

ENERGY EFFICIENCY POTENTIAL STUDY FOR PENNSYLVANIA

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List of Acronyms

| | |
|-------------------|--|
| ACEEE | American Council for an Energy-Efficient Economy |
| ASHP | Air source heat pump |
| BC | Benefit-cost |
| CB ECS | Commercial Buildings Energy Consumption Survey |
| CVR | Conservative voltage reduction |
| DEER | Database for Energy Efficient Resources |
| DOE | Department of Energy |
| DSM | Demand-side management |
| EDC | Electric Distribution Company |
| EF | Energy factor |
| EIA | Energy Information Administration |
| EISA | Energy Independence and Security Act |
| EM&V | Evaluation, measurement, and verification |
| EPA | Environmental Protection Agency |
| EUL | Effective useful life |
| EUI | Energy Use Intensity |
| HSPF | Heating Seasonal Performance Factor |
| KW | Kilowatt |
| KWH | Kilowatt hour |
| MECS | Manufacturing Energy Consumption Survey |
| MEF | Modified energy factor |
| MET ED | Metropolitan Edison Company |
| MFG | Manufacturing |
| MPS | Market Potential Study |
| MW | Megawatt |
| MWH | Megawatt hour |
| NEEP | Northeast Energy Efficiency Partnerships |
| NREL | National Renewable Energy Lab |
| PA | Pennsylvania |
| PECO | PECO Energy Company |
| PENELEC | Pennsylvania Electric Company |
| PENN POWER | Pennsylvania Power Company |
| PPL | PPL Electric Utilities Corporation |
| PUC | Public Utility Commission |
| PY | Program year |
| RECS | Residential Energy Consumption Survey |
| SEER | Seasonal energy efficiency ratio |
| SWE | Statewide evaluator |
| T&D | Transmission and distribution |
| TRC | Total Resource Cost Test |
| TRM | Technical Reference Manual |
| WEST PENN | West Penn Power Company |

Executive Summary

This report summarizes the energy efficiency potential analysis performed by the Pennsylvania Statewide Evaluator (SWE) Team from 2016 to 2025. This report presents the results of technical, economic, and achievable potential over 10 years (starting on June 1, 2016) for the residential, commercial, and industrial sectors. In addition, program potential for electric energy efficiency programs was calculated over five years.

STUDY OBJECTIVES AND SCOPE

This study examines the potential to reduce electric consumption and peak demand through the implementation of energy efficiency technologies and practices in residential, commercial, and industrial facilities, as well as associated activities in Pennsylvania.¹ This study assesses electric energy efficiency potential throughout the seven Pennsylvania investor-owned electric distribution company (EDC)² service areas over 10 years, from June 1, 2016 through May 31, 2025.

The main objectives of the study include:

- Evaluating the electric energy efficiency technical, economic, achievable, and program potential savings throughout the Commonwealth of Pennsylvania, and more specifically within the seven largest EDC service areas;
- Calculating the Total Resource Cost Test (TRC) benefit-cost ratio for the achievable potential savings for electric energy efficiency measures and programs, and determining the electric energy efficiency economic potential savings for Pennsylvania homes and businesses.

TYPES OF POTENTIAL ESTIMATED

The scope of this study distinguishes four types of energy efficiency potential: (1) technical, (2) economic, (3) achievable, and (4) program.

- **Technical Potential** is the theoretical maximum amount of energy use that could be displaced by efficiency, disregarding all non-engineering constraints such as cost-effectiveness and the willingness of end users to adopt the efficiency measures. Technical potential is constrained only by factors such as technical feasibility and applicability of measures. Under technical potential, the SWE Team assumed that 100% of new construction and burnout measures are adopted as those opportunities become available, while retrofit and early retirement opportunities are replaced incrementally (10% per year) until 100% of homes (residential) and square footage stock (nonresidential) are converted to the efficient measures over 10 years.
- **Economic Potential** refers to the subset of the technical potential that is economically cost-effective as compared to conventional supply-side energy resources. Economic potential follows the same adoption rates as technical potential. In addition, similar to technical potential, the economic scenario ignores market barriers to ensuring actual implementation of efficiency. Finally, economic potential only considers the costs of efficiency measures themselves, ignoring

¹ The residential sector analysis includes an estimation of low income potential. Similarly, the nonresidential sector analysis examines the potential from institutional facilities.

² EDCs evaluated within this study include Duquesne Light and Power, PPL Energy, PECO Energy, and the four First Energy Companies: Met-Ed, Penelec, PennPower, and West Penn Power.

any programmatic costs (e.g., marketing, analysis, administration) that would be necessary to capture them.³

- **Achievable Potential** is the amount of energy use that efficiency can realistically be expected to displace, assuming the most aggressive program scenario possible (e.g., providing end users with payments for the entire incremental cost of more efficient equipment). This is often referred to as *maximum achievable potential*. Achievable potential takes into account real-world barriers to encouraging end users to adopt efficiency measures, the non-measure costs of delivering programs (for administration, marketing, tracking systems, and monitoring and evaluation), and the capability of programs and administrators to boost program activity over time.⁴ In addition to the maximum achievable scenario, this analysis includes a *base achievable potential* scenario that is based on historical incentive levels and the corresponding program adoption rates observed from the Pennsylvania EDCs and other regional utility demand-side management (DSM) programs. The base achievable potential scenario also uses willingness-to-participate surveys conducted for the 2014 Pennsylvania (PA) Public Utility Commission (PUC) residential and nonresidential baseline studies.
- **Program Potential** refers to the efficiency potential possible given specific program funding levels and designs. Program potential studies can consider scenarios ranging from a single program to a full portfolio of programs. A typical potential study may report a range of results based on different program funding levels. For this study, the SWE Team has opted to utilize a simple-scaling approach to estimate program potential given the available DSM budgets stipulated under Act 129⁵. More information on this calculation approach can be found in Section 1.10, “Program Potential,” below.

APPROACH SUMMARY

The SWE Team used a “bottom-up” approach to estimate energy efficiency potential in the residential sector. Bottom-up approaches begin with characterizing the eligible equipment stock, estimating savings and screening for cost-effectiveness first at the measure level, then summing savings at the end-use and service-territory levels. In the commercial and industrial sectors, the SWE Team utilized the bottom-up modeling approach to first estimate measure-level savings and costs as well as cost-effectiveness, and then applied cost-effective measure savings to all applicable shares of energy load. Further details of the market research and modeling techniques utilized in this assessment are provided in Section 1, “Analysis Approach,” below.

INCREMENTAL ANNUAL VS. CUMULATIVE ANNUAL SAVINGS

It is important to note the distinction between incremental annual savings and cumulative annual savings. Incremental annual savings are those that occur in a given year due to participation in energy efficiency programs in that given year. Cumulative annual energy savings are those that accumulate in any given year due to participation in energy efficiency programs in that given year, as well as participation in prior years, to the extent that participation in prior years continues to yield savings. Cumulative annual energy savings account for the fact that measures installed in prior years may have useful lives longer than one year, and therefore produce savings that persist into the future for some

³ National Action Plan for Energy Efficiency, “Guide for Conducting Energy Efficiency Potential Studies” (November 2007), page 2-4.

⁴ National Action Plan for Energy Efficiency, “Guide for Conducting Energy Efficiency Potential Studies” (Nov. 2007), page 2-4.

⁵ Act 129 EE&C Phase II Implementation Order – Entered Aug. 3, 2012. The Act 129 Phase 2 EE&C Program Implementation Order. From the Public Meeting of August 2, 2012. Docket Nos. M-2012-2289411 and M-2008-2069887

time. However, cumulative annual energy savings also reflect savings decay – that is, savings that can no longer be counted in a given year once a measure is no longer operational or has “burned out.”

One particularly important distinction between incremental annual savings and cumulative annual savings is that the sum of the incremental annual savings may be greater than the cumulative annual savings over an extended time frame due to measure savings decay. A detailed example of the potential difference between incremental annual savings and cumulative annual savings is discussed in Section 1.4, “Incremental Annual vs. Cumulative Annual Savings.”

STUDY LIMITATIONS

As with any assessment of energy efficiency potential, this study necessarily builds on various assumptions and data sources, including the following:

- Energy efficiency measure lives, savings, and costs
- The discount rate for determining the net present value (NPV) of future savings
- Projected penetration rates for energy efficiency measures
- Projections of electric generation avoided costs for electric capacity and energy as defined in the 2009, 2011, and 2013 Pennsylvania PUC TRC Orders⁶
- Projections of transmission and distribution (T&D) avoided costs
- Future changes to codes and standards
- EDC load forecasts and assumptions on their disaggregation by sector, segment, and end use
- End-use saturations and fuel shares

While the SWE Team has sought to use the best and most current available data, there are assumptions for which a reasonable alternative would yield slightly different results. Furthermore, while the lists of energy efficiency measures examined in this study represent most commercially available measures, these measure lists are not exhaustive. Finally, the SWE Team did not attempt to place a dollar value on some difficult-to-quantify non-energy benefits arising from the installation of some measures, such as increased comfort or increased safety. These non-energy benefits may affect some customers’ choices to implement one or more measures that may otherwise have been less cost-effective or only marginally cost-effective.

ENERGY EFFICIENCY POTENTIAL

Table ES-1 and Figure ES-1 summarize the achievable potential across all sectors as well as total annual program costs. Total maximum achievable potential for the region of the seven EDCs covered by Act 129 in 2020 and 2025 for energy efficiency is 7.5% and 13.2%, respectively, of 2010 kilowatt-hour (kWh) sales.⁷

⁶ The PA PUC TRC Test Orders can be found on the PA PUC 129 website.

⁷ For purposes of this study, the baseline period sales are forecast kWh sales for each EDC for the period June 1, 2009 through May 31, 2010. The SWE Team has selected the load for this year to be consistent with Act 129 of 2008, which required the EDCs to reduce electric consumption at least 1% by May 31, 2011, and 3% by May 31, 2013, relative to their forecast load for the period June 1, 2009 through May 31, 2010. All energy and demand savings are presented in this report at the end-consumer (meter) level unless specifically noted otherwise.

The SWE Team estimates that with the current annual spending cap,⁸ the seven EDCs can achieve a combined annual savings equal to 0.8% to 1.0% of 2010 load per year. After accounting for measure savings decay and annual savings adjustments for codes and standards, the cumulative annual program potential in 2020 is 5,092,433 megawatt hours (MWh) or 3.5% of the baseline load.

Without a budget cap, annual savings could achieve roughly 1.2% to 2.0% of 2010 load in the base achievable and maximum achievable scenarios, respectively. On a cumulative annual basis, the base achievable potential is 4.6% of the baseline load in 2020 and the maximum achievable potential is 7.5% of baseline load in 2020.

Table ES-1: Statewide Summary of Potential Savings and Costs by Scenario by Year

| | 2016 | 2017 | 2018 | 2019 | 2020 | 2025 |
|--|-----------|------------|------------|------------|------------|------------|
| Cumulative Savings Potential - MWh | | | | | | |
| Technical | 6,707,085 | 13,016,622 | 18,973,644 | 24,294,903 | 25,336,859 | 41,190,328 |
| Economic | 4,895,392 | 9,387,083 | 13,662,316 | 17,628,245 | 17,253,764 | 26,944,933 |
| Maximum Achievable | 2,761,211 | 5,438,518 | 8,133,238 | 10,772,462 | 10,983,129 | 19,357,092 |
| Base Achievable | 1,610,739 | 3,285,284 | 4,980,543 | 6,649,165 | 6,748,807 | 12,111,889 |
| Program | 1,217,554 | 2,480,941 | 3,758,994 | 5,015,090 | 5,092,433 | - |
| Cumulative Savings Potential - % of 2010 Load | | | | | | |
| Maximum Achievable | 1.9% | 3.7% | 5.5% | 7.3% | 7.5% | 13.2% |
| Base Achievable | 1.1% | 2.2% | 3.4% | 4.5% | 4.6% | 8.3% |
| Program | 0.8% | 1.7% | 2.6% | 3.4% | 3.5% | - |
| Incremental Savings Potential - MWh | | | | | | |
| Maximum Achievable | 2,761,211 | 2,866,823 | 2,989,121 | 3,104,271 | 2,610,702 | 2,574,169 |
| Base Achievable | 1,610,739 | 1,725,249 | 1,836,917 | 1,943,976 | 1,665,279 | 1,794,256 |
| Program | 1,217,554 | 1,302,307 | 1,386,202 | 1,466,663 | 1,256,735 | - |
| Incremental Savings Potential - % of 2010 Load | | | | | | |
| Maximum Achievable | 1.9% | 2.0% | 2.0% | 2.1% | 1.8% | 1.8% |
| Base Achievable | 1.1% | 1.2% | 1.3% | 1.3% | 1.1% | 1.2% |
| Program | 0.8% | 0.9% | 0.9% | 1.0% | 0.9% | - |
| EDC Program Costs - Million \$ | | | | | | |
| Maximum Achievable | \$581.8 | \$601.9 | \$619.9 | \$638.5 | \$607.0 | \$642.6 |
| Base Achievable | \$302.1 | \$316.2 | \$329.3 | \$342.6 | \$325.7 | \$361.6 |
| Program | \$228.7 | \$239.2 | \$249.1 | \$259.2 | \$246.4 | n/a* |
| <i>*Program potential was only estimated for five years to be consistent with a Phase III of Act 129. Program potential in 2025 would be part of Phase IV of Act 129</i> | | | | | | |

⁸ Program potential is estimated based on funding levels of 2% of 2006 utility electric revenues, as specified in Act 129 legislation.

Figure ES-1: Cumulative Annual Energy (MWh) Savings by Scenario by Year

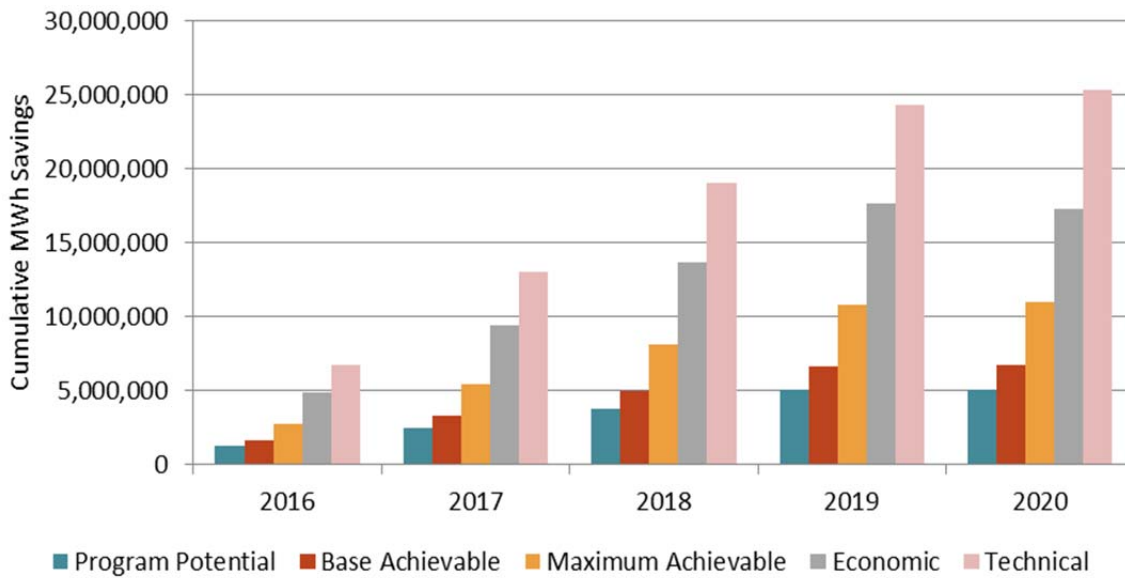


Figure ES-2 shows the cumulative annual energy (MWh) savings impacts for each potential scenario relative to the combined EDC load forecast for 2016 through 2025. The projected energy savings are estimated to be achieved through EDC program efforts and exclude savings due to codes and standards, which are incorporated in the EDCs’ forecasts.⁹

Figure ES-2: 2016-2025 Statewide Energy (MWh) Forecast and Potential Savings Projections by Scenario

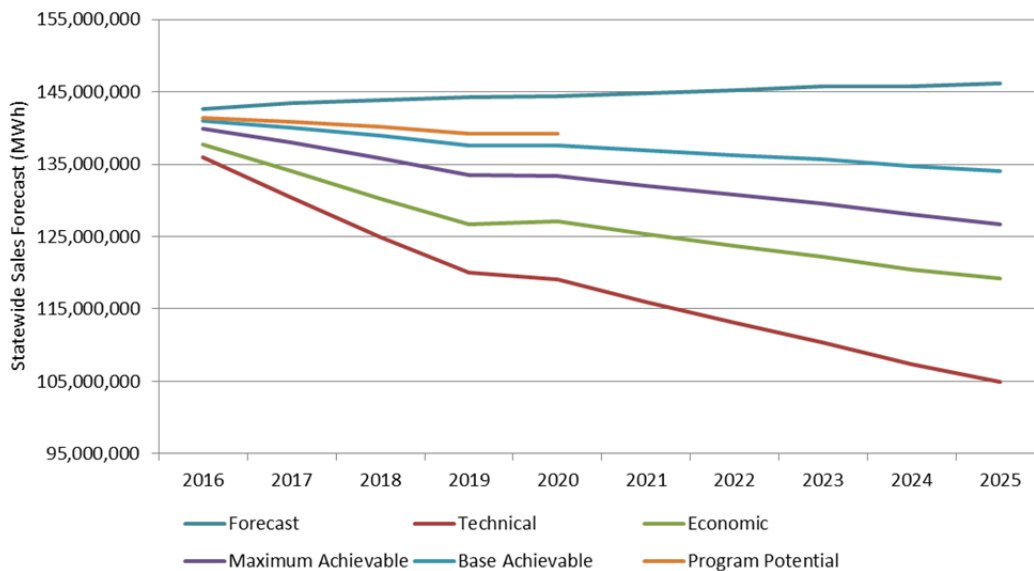


Table ES-2 presents the cumulative annual base achievable potential by customer class. Residential-sector savings represent 2.5% of the baseline load after five years and 4.5% after 10 years.

⁹ Note that the lack of apparent growth in energy savings potential between 2019 and 2020 is not a result of reduced market adoption of efficient technologies, but the estimated impacts of the general service lighting backstop provision in Energy Independence and Security Act (EISA) of 2007 and the analysis’ adjustment that the general service lighting baseline shifts to the compact fluorescent light (CFL) bulb in 2020. The shift in baseline technology impacts all installed bulbs, resulting in modest overall growth in potential from 2019 to 2020.

Nonresidential sector savings represent 2.1% of the baseline load after five years and 3.8% of the baseline in 2025.

Table ES-2: Statewide Cumulative Annual Potential by Customer Sector by Year

| Base Achievable Potential | 2016 | 2017 | 2018 | 2019 | 2020 | 2025 |
|--|---------|-----------|-----------|-----------|-----------|-----------|
| Cumulative Savings Potential - MWh | | | | | | |
| Residential | 953,810 | 2,005,954 | 3,087,372 | 4,149,256 | 3,722,120 | 6,587,083 |
| Commercial | 408,759 | 791,076 | 1,173,748 | 1,550,571 | 1,853,605 | 3,205,776 |
| Industrial | 248,169 | 488,254 | 719,423 | 949,338 | 1,173,082 | 2,319,030 |
| Cumulative Savings Potential - % of 2010 Load | | | | | | |
| Residential | 0.7% | 1.4% | 2.1% | 2.8% | 2.5% | 4.5% |
| Commercial | 0.3% | 0.5% | 0.8% | 1.1% | 1.3% | 2.2% |
| Industrial | 0.2% | 0.3% | 0.5% | 0.6% | 0.8% | 1.6% |

Figure ES-3 shows the cumulative annual base achievable potential in 2020. The residential sector accounts for 55.2% of the base achievable savings in 2020. The commercial- and industrial-sector savings account for 27.5% and 17.4%, respectively, of the total base achievable potential in 2020.

Figure ES-3: Statewide 2020 Cumulative Annual Potential by Customer Sector

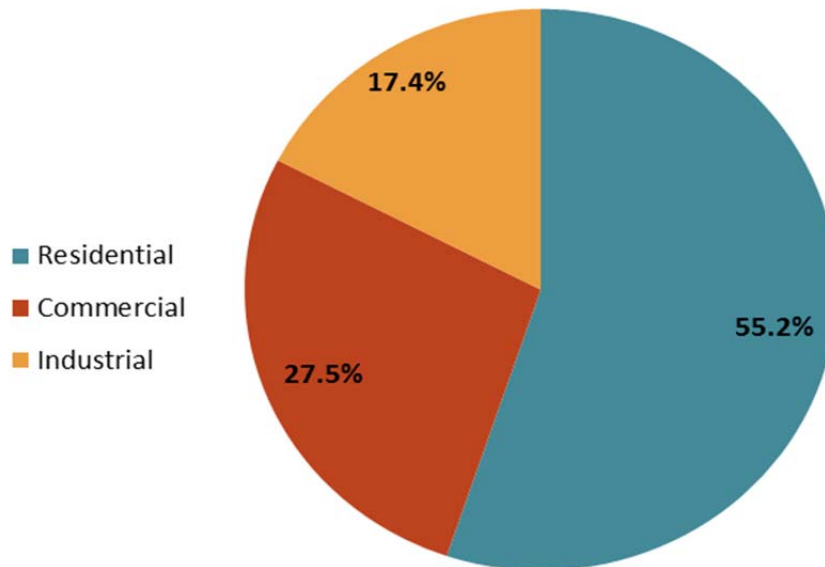


Table ES-3 shows the cumulative annual maximum achievable, base achievable, and program potential by EDC. Additional details of electric energy efficiency potential by EDC can be found in Sections 3.4, “Residential Potential by EDC;” 4.4, “Commercial Potential by EDC;” and 5.4, “Industrial Potential by EDC”.

Table ES-3: Portfolio Cumulative Annual Energy (MWh) Savings Potential by EDC by Year

| Energy Savings (MWh) | 2016 | 2017 | 2018 | 2019 | 2020 | 2025 |
|------------------------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|
| Duquesne | | | | | | |
| Maximum Achievable | 285,647 | 544,837 | 812,220 | 1,082,404 | 1,108,458 | 1,942,891 |
| Base Achievable | 157,396 | 311,143 | 471,211 | 634,725 | 643,125 | 1,163,372 |
| Program | 98,122 | 193,969 | 293,757 | 395,693 | 400,930 | - |
| <i>Program Pot. % of 2010 Load</i> | 0.7% | 1.4% | 2.1% | 2.8% | 2.8% | - |
| FE: Met-Ed | | | | | | |
| Maximum Achievable | 261,833 | 528,065 | 793,754 | 1,053,907 | 1,062,054 | 1,888,640 |
| Base Achievable | 155,337 | 324,825 | 494,558 | 661,276 | 663,303 | 1,194,683 |
| Program | 121,855 | 254,812 | 387,960 | 518,744 | 520,334 | - |
| <i>Program Pot. % of 2010 Load</i> | 0.8% | 1.7% | 2.6% | 3.5% | 3.5% | - |
| FE: Penelec | | | | | | |
| Maximum Achievable | 269,717 | 528,552 | 791,037 | 1,048,786 | 1,102,105 | 1,988,966 |
| Base Achievable | 159,219 | 322,125 | 488,661 | 653,344 | 686,459 | 1,264,572 |
| Program | 110,776 | 224,117 | 339,983 | 454,560 | 477,600 | - |
| <i>Program Pot. % of 2010 Load</i> | 0.8% | 1.6% | 2.4% | 3.2% | 3.3% | - |
| FE: Penn Power | | | | | | |
| Maximum Achievable | 80,213 | 158,685 | 238,108 | 316,236 | 314,269 | 556,141 |
| Base Achievable | 47,480 | 97,061 | 147,516 | 197,373 | 195,320 | 350,731 |
| Program | 34,843 | 71,229 | 108,256 | 144,844 | 143,337 | - |
| <i>Program Pot. % of 2010 Load</i> | 0.7% | 1.5% | 2.3% | 3.0% | 3.0% | - |
| FE: West Penn | | | | | | |
| Maximum Achievable | 387,907 | 769,658 | 1,156,091 | 1,535,348 | 1,555,824 | 2,809,555 |
| Base Achievable | 231,610 | 475,693 | 723,604 | 967,371 | 976,296 | 1,781,180 |
| Program | 117,829 | 242,004 | 368,126 | 492,141 | 496,681 | - |
| <i>Program Pot. % of 2010 Load</i> | 0.6% | 1.2% | 1.8% | 2.4% | 2.4% | - |
| PECO | | | | | | |
| Maximum Achievable | 716,473 | 1,392,114 | 2,068,374 | 2,722,126 | 2,762,128 | 4,752,131 |
| Base Achievable | 426,943 | 860,145 | 1,297,730 | 1,723,754 | 1,756,157 | 3,081,705 |
| Program | 429,556 | 865,409 | 1,305,672 | 1,734,303 | 1,766,904 | - |
| <i>Program Pot. % of 2010 Load</i> | 1.1% | 2.2% | 3.3% | 4.4% | 4.5% | - |
| PPL | | | | | | |
| Maximum Achievable | 759,422 | 1,516,607 | 2,273,655 | 3,013,654 | 3,078,290 | 5,418,768 |
| Base Achievable | 432,755 | 894,292 | 1,357,264 | 1,811,321 | 1,828,148 | 3,275,647 |
| Program | 304,572 | 629,401 | 955,240 | 1,274,804 | 1,286,646 | - |
| <i>Program Pot. % of 2010 Load</i> | 0.8% | 1.6% | 2.5% | 3.3% | 3.4% | - |
| Statewide Total | | | | | | |
| Maximum Achievable | 2,761,211 | 5,438,518 | 8,133,238 | 10,772,462 | 10,983,129 | 19,357,092 |
| Base Achievable | 1,610,739 | 3,285,284 | 4,980,543 | 6,649,165 | 6,748,807 | 12,111,889 |
| Program | 1,217,554 | 2,480,941 | 3,758,994 | 5,015,090 | 5,092,433 | - |
| <i>Program Pot. % of 2010 Load</i> | 0.8% | 1.7% | 2.6% | 3.4% | 3.5% | - |

This study concludes that continuing electric energy efficiency programs in a Phase III of Act 129 will continue to be cost-effective for Pennsylvania ratepayers. Table ES-4 shows the TRC benefit-cost ratios for the maximum achievable, base achievable, and program potential based on a five-year implementation period beginning June 1, 2016. The TRC ratio statewide for the program potential scenario is 1.88.

Table ES-4: Statewide TRC Cost-Effectiveness Results by Scenario for 2016-2020

| | NPV ¹⁰ Costs (Million \$) | NPV Benefits (Million \$) | NPV Net Benefits (Million \$) | TRC BC Ratio ¹¹ |
|---------------------------|---|------------------------------|----------------------------------|-------------------------------|
| Maximum Achievable | \$3,412.7 | \$6,235.1 | \$2,822.4 | 1.83 |
| Base Achievable | \$2,233.3 | \$4,185.7 | \$1,952.4 | 1.87 |
| Program | \$1,692.0 | \$3,184.2 | \$1,492.3 | 1.88 |

Table ES-5 shows the five-year EDC costs to acquire the potential; the sum of the first-year MWh savings over the five-year period; and the estimated acquisition costs (\$/MWh) for the maximum achievable, base achievable, and program potential scenarios. The program potential energy savings in Table ES-5 are therefore the sum of the incremental annual savings achieved in each of the years spanning 2016 through 2020. This total is different than the cumulative annual program potential savings estimate of 5,092,433 MWh shown in Tables ES-1 and ES-3 due to the differences in incremental annual savings and cumulative annual savings described above.

For the purposes of determining statewide acquisition costs from the base achievable costs and savings data, the SWE Team concludes that it is correct to divide the sum of the incremental annual savings data across the timeframe by the sum of the annual costs. This method maintains the integrity of the definition of an acquisition cost and aligns with actual EDC budgeting and planning practices. The differences in the sum of the incremental annual and cumulative annual program potential savings should be carefully considered when using this report to inform the establishment of future savings targets for Phase III of Act 129.

Table ES-5: Statewide Acquisition Costs by Scenario for 2016-2020

| | 2016-2020 Program Costs (Million \$) | 2016-2020 Program Savings (MWh) | Acquisition Cost (\$/1 st -YR MWh Saved) |
|---------------------------|---|------------------------------------|--|
| Maximum Achievable | \$3,644.3 | 14,332,129 | \$254.3 |
| Base Achievable | \$1,615.9 | 8,782,160 | \$184.0 |
| Program | \$1,222.5 | 6,629,460 | \$184.4 |

The five-year program potential energy savings and budget values are found in Table ES-6 for each EDC and the Commonwealth of Pennsylvania.

Table ES-6: Five-Year Program Potential Savings and Budget by EDC

| | Portfolio Spending Ceiling (Million \$) | Program Acquisition Costs (\$/1 st -YR MWh Saved) | 2016-2020 Potential Savings (MWh) | % of 2010 Forecast |
|--|---|---|--------------------------------------|-----------------------|
| 2016-2020 – Five-Year Program Potential | | | | |
| Duquesne | \$97.7 | \$186.9 | 522,837 | 3.7% |
| FE: Met-Ed | \$124.3 | \$182.2 | 682,474 | 4.6% |
| FE: Penelec | \$114.9 | \$191.9 | 598,704 | 4.2% |
| FE: Penn Power | \$33.3 | \$176.1 | 189,107 | 4.0% |
| FE: West Penn | \$117.8 | \$181.0 | 650,760 | 3.1% |
| PECO | \$427.0 | \$184.7 | 2,311,387 | 5.9% |
| PPL | \$307.5 | \$183.7 | 1,674,191 | 4.4% |
| Statewide | \$1,222.5 | \$184.4 | 6,629,460 | 4.5% |

¹⁰ NPV: Net present value

¹¹ BC ratio: Benefit-cost ratio

ORGANIZATION OF THE REPORT

The remainder of this report is organized in seven sections as follows:

Section 1 Analysis Approach details the methodology used to develop the estimates of technical, economic, achievable, and program potential for electric energy efficiency savings.

Section 2 Characterization of Pennsylvania Service Areas provides an overview of the Pennsylvania EDC service areas and a brief discussion of the historical and forecasted electric energy sales by sector as well as peak demand.

Section 3 Residential Energy Efficiency Potential provides a breakdown of the technical, economic, and achievable potential in the residential sector.

Section 4 Commercial Energy Efficiency Potential provides a breakdown of the technical, economic, and achievable potential in the commercial sector.

Section 5 Industrial Energy Efficiency Potential provides a breakdown of the technical, economic, and achievable potential in the industrial sector.

Section 6 Portfolio Level Results and Program Energy Efficiency Potential Estimates provides detailed information on the program potential in the residential, commercial, and industrial sectors over the five-year period of June 2016 through May 2020.

Section 7 Conclusions and Recommendations presents the final discussion regarding the potential for energy efficiency savings in Pennsylvania.

1 Analysis Approach

This section describes the overall methodology the SWE Team utilized to conduct the Pennsylvania statewide electric energy efficiency potential study. The main objectives of this energy efficiency potential study is to estimate the technical, economic, achievable, and program potential for energy efficiency statewide for periods of five and 10 years beginning June 1, 2016; and to provide potential kWh and kW savings estimates for each level of energy efficiency potential (technical, economic, achievable, and program). This study does not examine potential peak load reduction and energy reductions from demand response programs, but rather will estimate demand savings and peak load reductions¹² associated with different types of energy efficiency potential.¹³

This electric energy efficiency potential study will provide results that are both statewide and specific to each of the seven Pennsylvania EDCs. To accomplish this objective, the SWE Team created a series of unique energy efficiency potential models for each of the seven EDCs and for each primary market sector (residential, commercial, and industrial).¹⁴

1.1 OVERVIEW OF APPROACH

The SWE Team used a bottom-up approach to estimate energy efficiency potential in the residential sector. Bottom-up approaches begin with characterizing the eligible equipment stock, estimating savings and screening for cost-effectiveness first at the measure level, then summing savings at the end-use and service area levels. In the commercial and industrial sectors, the SWE Team utilized the bottom-up modeling approach to first estimate measure-level savings and costs as well as cost-effectiveness, and then applied cost-effective measure savings to all applicable shares of energy load. Further details of the market research and modeling techniques utilized in this assessment are provided in the following sections.

1.2 FORECAST DISAGGREGATION

This analysis of the potential for energy efficiency savings begins with utilizing the most recent and available electricity sales forecasts from Pennsylvania EDCs for a period of 10 years beginning June 1, 2016, which reflects annual energy reductions from Act 129 Phases I and II.

Disaggregated forecast data provides the foundation for the development of energy efficiency potential estimates for the commercial and industrial sectors. The SWE Team applied the measure-level savings factors discussed in the Technical Potential section below to the corresponding share of the EDC's energy load by sector (commercial, industrial, and government/nonprofit/institutional (GNI)), segment (building type), end use, and equipment type.

For the commercial and industrial sectors, the SWE Team disaggregated each EDC's baseline 2016-2025 load forecast using a top-down/bottom-up calibration analysis. The SWE Team conducted the top-down forecast disaggregation by applying EDC-specific segment and end-use consumption shares derived from

¹² Estimated peak load reductions will be estimated, to the extent practicable, consistent with the coincident summer peak period as defined in the 2014 TRM, (i.e., "...the period between the hour ending 15:00 Eastern Prevailing Time (EPT) and the hour ending 18:00 EPT during all days from June 1 through August 31, inclusive, that is not a weekend or federal holiday.")

¹³ The SWE Team conducted a Demand Response (DR) Potential Study in parallel with the Energy Efficiency MPS. The SWE Team issued a separate report detailing the findings from the DR Potential Study. The PA PUC will provide guidance to the SWE Team on the allocation of the spending cap budget between energy efficiency (EE) and DR programs for Phase III.

¹⁴ To the extent possible, modeling input assumptions for the potential study will be based on the results and findings from studies with statistically valid sampling designs and acceptable precision levels.

the 2014 Pennsylvania Non-Residential End-Use and Saturation Study to each EDC's load forecast. In this exercise, the SWE Team:

- Determined energy consumption per customer sector and segment in baseline year (2016).
- Disaggregated customer segment loads into end-use loads such as space cooling.
- Forecasted the 10-year end-use energy consumption by sector and segment through 2025.

The SWE Team then constructed a bottom-up commercial and industrial forecast of consumption by equipment type, calibrating the forecast to the top-down disaggregated forecast by end use for each sector and segment. The SWE Team conducted this calibration by calculating the available stock (square feet) in the base year for each EDC, then multiplying stock against equipment energy use intensities EUIs after applying an end-use fuel share, end-use saturation, and equipment type saturation values derived from the 2014 Pennsylvania Baseline Study¹⁵ and other regional sources as needed. The SWE Team calibrated this bottom-up estimate of energy consumption to the top-down energy consumption values by altering the equipment EUIs and/or available stock as needed.

The commercial sector, as defined in this analysis, was comprised of the following business segments:¹⁶

- Institutional
 - Education
 - Healthcare
 - Government/Public Service
 - Non-profit
 - Other Institutional
- Grocery
- Lodging
- Office
- Restaurant
- Retail
- Warehouse
- Miscellaneous

The industrial sector, as defined in this analysis, was comprised of the following industrial segments:¹⁷

- Manufacturing
 - Chemicals
 - Computers and Electronics
 - Food
 - Metals
 - Paper
 - Plastics
 - Other
- Mining
- Other Non-Manufacturing

¹⁵ Two baseline studies (residential and nonresidential) were performed. *Pennsylvania Statewide Act 129 2014 Non-Residential End Use & Saturation Study*. April 2014 submitted by Nexant; and *2014 Pennsylvania Statewide Act 129 Residential Baseline Study*. April 2014 submitted by GDS Associates.

¹⁶ These designations may fall into "small C&I" or "large C&I" rate schedules and Act 129 customer sectors for EDCs. Some of these segments may also qualify as "GNI."

¹⁷ These designations may fall into "small C&I" or "large C&I" rate schedules and Act 129 customer sectors for EDCs. Some of these segments may also qualify as "GNI." In addition, some "agricultural" customers may have a residential rate schedule for some EDCs.

Although it is not necessary to develop a disaggregated residential sales forecast for each EDC based on the approach utilized in the residential sector, the SWE Team attempted to calibrate any building energy modeling outputs and end-use baseline energy consumption estimates so that total estimated residential energy consumption aligns with the EDC residential sector load forecasts.

1.3 MEASURE ANALYSIS

1.3.1 Summary

Energy efficiency measures considered in the study include all measures in the 2015 Pennsylvania Technical Reference Manual (TRM), as well as other energy efficiency measures based on the SWE Team’s knowledge and current databases of electric end-use technologies and energy efficiency measures in other jurisdictions. The study includes measures and practices that are currently commercially available as well as emerging technologies. The commercially available measures are of the most immediate interest to energy efficiency program planners in Pennsylvania. Emerging technology research was focused on measures that are either commercially available but currently not widely accepted, or are not currently available but expected to be commercialized over the analysis timeframe.¹⁸

1.3.2 Number of Measures Evaluated

In total, the SWE Team analyzed 400 measure types. Many measures required multiple permutations for different applications, such as different building types, efficiency levels, decision types, and EDC. The SWE Team developed a total of 95,025 measure permutations for this study across the seven EDCs, and tested all measures for cost-effectiveness under the TRC. The parameters for cost-effectiveness under the TRC are discussed in detail later in Section 1.7.1, “Total Resource Cost Test.” Of the permutations analyzed, roughly 50% or 46,634 measures had a measure TRC benefit-cost ratio of 1.0 or higher.¹⁹

Approximately 70% of all measures types included in this study are included in the 2015 Pennsylvania TRM. The SWE Team included 119 additional measure types to offer a more robust analysis of electric energy efficiency savings potential in Pennsylvania.

Table 1-1: Number of Measures Evaluated

| | # of Measures | Total # of Measure Permutations | # with TRC ≥ 1 |
|--------------------|---------------|---------------------------------|----------------|
| By Sector | | | |
| Residential | 69 | 5,306 | 3,021 |
| Commercial | 209 | 76,636 | 34,912 |
| Industrial | 122 | 13,083 | 8,701 |
| Total | 400 | 95,025 | 46,634 |
| By Source | | | |
| PA TRM | 281 | 63,652 | 30,824 |
| Secondary | 119 | 31,373 | 15,810 |
| Total | 400 | 95,025 | 46,634 |

¹⁸ For example, ENERGY STAR recently created a rating system for clothes dryers. High efficiency clothes dryers were included as an emerging technology.

¹⁹ The residential included some low income-specific measures with a TRC ratio less than 1.0 in the economic and achievable potential analysis. Low income-specific measures with a TRC ratio of 0.25 or greater were retained in the residential analysis of economic and achievable potential.

1.3.3 Measure Characterization

A significant amount of data is needed to estimate the kWh and kW savings potential for individual energy efficiency measures or programs across the entire residential, commercial, and industrial sectors in Pennsylvania. The SWE Team utilized data specific to Pennsylvania when it was available and current. The SWE Team used the 2015 TRM, the SWE 2014 incremental cost database, and the SWE 2014 baseline study as the main sources of data for measure assumptions.²⁰ For measures not listed in the TRM or SWE 2014 incremental cost database, the SWE Team conducted secondary research to develop reasonable and supportable assumptions.

Measure Savings: The SWE Team utilized the 2015 TRM to inform calculations supporting estimates of annual measure savings as a percentage of base equipment usage. For custom measures and measures not included in the TRM, the SWE Team estimated savings from a variety of sources, including:

- Mid-Atlantic TRM and other existing deemed savings databases
- Building energy simulation software (such as BEopt or EQuest) and engineering analyses
- Scheduled changes in federal codes and standards
- Secondary sources such as the American Council for an Energy-Efficient Economy (ACEEE), Department of Energy (DOE), Energy Information Administration (EIA), ENERGY STAR[®], and other technical potential studies
- Program evaluations conducted by Pennsylvania EDCs as well as other utilities and program administrators

Measure Costs: Measure costs represent either incremental or full costs, and typically include the incremental cost of measure installation. For purposes of this study, nominal measure costs were escalated by the general rate of inflation over time. One exception to this assumption will be an assumed decrease in costs for light emitting diode (LED) bulbs, and to a lesser extent, compact fluorescent light (CFL) bulbs over the study horizon. LED bulb consumer costs have been declining rapidly over the last several years and future cost projections predict a continued decrease in bulb costs.²¹ The SWE Team's treatment of LED bulb costs and market penetration are discussed in greater detail in Section 1.3.5, "Review of LED Lighting Assumptions."

When available, the SWE Team obtained measure cost estimates from the 2014 PA Incremental Cost Database. For measures not in this database, the SWE Team used the following data sources:

- Secondary sources such as the ACEEE, ENERGY STAR, National Renewable Energy Lab (NREL), California Public Utility Commission (PUC) Incremental Cost Database, Northeast Energy Efficiency Partnership (NEEP) Incremental Cost Study, and other technical potential studies
- Retail store pricing (such as websites of Home Depot, Lowe's, and Grainger) and industry experts
- EDC program evaluation and market assessment reports
- EDC annual reports to the PA PUC
- RS Means Commercial Construction Materials

Measure Life: Measure life represents the number of years that energy using equipment is expected to operate. Pennsylvania's Act 129 caps the measure's life, when used in the TRC calculation, at a

²⁰ This analysis also incorporates the results of the 2014 residential and nonresidential lighting metering study. The results of this analysis were not available for inclusion in the 2015 TRM, but are to be reflected in the market potential estimates of Phase III EE and DR potential.

²¹ 2014 DOE SSL Multi-Year Program Plan & NEEP Residential Lighting Strategy Report.

maximum of 15 years.²² The SWE Team obtained measure life estimates from the 2015 PA TRM, and used the following data sources for measures not in the TRM:

- Manufacturer data
- Savings calculators and life-cycle cost analyses
- The California Database for Energy Efficient Resources (DEER) database
- Evaluation reports
- Surveys conducted by the EDCs
- Other consultant research or technical reports

Baseline and Efficient Technology Saturations: In order to assess the potential electric energy efficiency savings available, estimates of the current saturation of baseline equipment and energy efficiency measures are necessary. The SWE Team primarily obtained up-to-date measure or end-use and equipment saturation data from the following recent studies:

- 2014 PA PUC residential and nonresidential baseline studies (based on site surveys conducted by the SWE Team in the fall of 2013)
- Other recently completed home energy and appliance saturation surveys completed in Pennsylvania or similar regions, including EDC research studies
- EDC end-use fuel share forecasts
- Latest (2009) EIA Residential Energy Consumption Survey (RECS)
- Latest (2010) EIA Manufacturing Energy Consumption Survey (MECS)
- Latest (2003) EIA Commercial Buildings Energy Consumption Survey (CBECS)

Documentation for the development of energy efficiency measure assumptions in the residential, commercial, and industrial sectors is provided in the appendices of this report.

1.3.4 Treatment of Codes and Standards

Although this analysis does not attempt to predict how energy codes and standards will change over time, the analysis does account for the impacts of several known improvements to federal codes and standards. Although not exhaustive, key adjustments include:

- General Service lighting baselines reflect the minimum efficiency standards and schedule established in the Energy Independence and Security Act of 2007 (EISA 2007). As a result, the baseline efficiency for most general lighting was assumed to be a halogen bulb through May 31, 2020. Beginning in June 2020, the analysis reflects the adjustments included in the EISA 2007 backstop provision, and the general service lighting baseline shifts to the CFL bulb. This shift in baseline impacts all bulbs, including those installed prior to 2020.
- The baseline efficiency for air source heat pumps (ASHP) is anticipated to improve to 14 SEER/8.2 HSPF²³ in 2015. As the existing stock of ASHPs was estimated to turn over, the baseline efficiency was assumed to be the new federal standard.
- In 2015, the DOE makes amended standards effective for residential water heaters that required updated energy factors (EF) depending on the type of water heater and the rated storage volume. For electric storage water heaters with a volume greater than 55 gallons, the standards effectively require heat pumps for electric storage products. For storage tank water heaters with a volume of 55 gallons or less, the new standard (EF=0.948) becomes essentially the equivalent of today's efficient storage tank water heaters.

²² Estimates of the natural replacement cycle of equipment with measure lives greater than 15 years were not capped in the potential modeling.

²³ SEER: Seasonal Energy Efficiency Ratio; HSPF: Heating Seasonal Performance Factor.

- In March 2015, the DOE will amend the standards for residential clothes washers. The new standards will require the Integrated Modified Energy Factor (MEF) (ft³/kWh/cycle) to meet certain thresholds based on the machine configurations. The ENERGY STAR specifications for residential clothes washers will also be amended to increase the efficiency of units that can earn the ENERGY STAR label. Version 7.0 of the ENERGY STAR specification is scheduled to go into effect in March 2015. These amended federal and ENERGY STAR standards have been factored into the study.
- In January 2015, the DOE will amend the standards for residential clothes dryers. The new standards will require the EF (pounds/kWh) to meet certain thresholds based on the machine configurations. There is also an ENERGY STAR specification in development for residential clothes dryers. Version 1.0 of the ENERGY STAR specification for residential clothes dryers is scheduled to go into effect in January 2015. The DOE-amended standards and the ENERGY STAR specification for residential clothes dryers have been factored into the study.
- In line with the phase-in of 2005 EPA regulations, the baseline efficiency for general service linear fluorescent lamps was moved from the T12 light bulb to a T8 light bulb effective June 1, 2016, in PA Act 129.

1.3.5 Review of LED Lighting Assumptions

Although the SWE Team has partially discussed the treatment of general service screw-in LED lighting, it is important to review the various assumptions that were tailored throughout this analysis given the emerging market for LEDs and the overall importance of lighting to the EDCs' energy efficiency portfolios.

Savings: Screw-in LED bulbs were assumed to replace the current federal code baseline according to the EISA 2007. For the initial four years of the analysis (June 2016 through May 2020), LED bulb savings are calculated relative to a halogen bulb. For the final six years of the analysis, the SWE Team assumes the CFL bulb becomes the code baseline, and LED savings are calculated against the CFL bulb.

Costs: LED bulb costs are widely projected to decrease significantly over the next decade. Current estimates project standard LED screw-in bulbs at \$4.00 by 2020 and \$2.40 by 2030.²⁴ Similarly, LED reflector bulbs are assumed to decline to \$7.00 in 2020 and \$5.00 by 2030. Based on these declining projections, as well as the current price of LED bulbs and estimated interim price points, the SWE Team developed annual cost projections for standard and reflector screw-in LED bulbs. Table 1-2 shows the annual projections for a standard 60-watt equivalent LED screw-in bulb and a 65-watt equivalent LED reflector.

Table 1-2: Price Projections for Residential LED Lighting

| Bulb Technology | 2016 | 2017 | 2018 | 2019 | 2020 | 2025 |
|----------------------|---------|---------|--------|--------|--------|--------|
| LED Screw-In | \$7.00 | \$6.00 | \$5.00 | \$4.38 | \$4.00 | \$3.20 |
| LED Reflector | \$13.60 | \$11.40 | \$9.20 | \$7.80 | \$7.00 | \$6.00 |

Market Acceptance: In an effort to recognize the increasing market adoption of LED bulbs and the increased focus on LED technologies in EDC energy efficiency programs, the SWE Team's potential analysis also projected an increasing focus on LED screw-in bulb technologies over CFL bulbs. Table 1-3

²⁴ Energy Information Administration. Technology Forecast Updates – Residential and Commercial Building Technologies, Reference Case. The 2014 DOE SSL Multi-Year Program Plan, NEEP Residential Lighting Strategy, and IMS Research (Does LED Lighting Have a Tipping Point?) all estimate the \$4.00 LED standard screw-in bulbs price point in 2020.

shows the annual applicability of LED vs. CFL bulbs assumed in the residential sector.²⁵ For example, in 2017, 83% of all assumed efficient screw-in bulb installations will be LED. As noted above, the screw-in lighting baseline shifts to the CFL bulb in 2020, and all assumed efficient installations shift to LEDs at that time.

Table 1-3: Assumed Annual Applicability of LED Bulbs

| Bulb Technology | 2016 | 2017 | 2018 | 2019 | 2020 |
|-----------------|------|------|------|------|------|
| CFL Bulb | 30% | 17% | 7% | 7% | 0% |
| LED Bulb | 70% | 83% | 93% | 93% | 100% |

1.4 INCREMENTAL ANNUAL VS. CUMULATIVE ANNUAL SAVINGS

It is important to note the distinction between incremental annual savings and cumulative annual savings. Incremental annual savings are those which occur in a given year due to participation in energy efficiency programs in that given year. Cumulative annual energy savings are those which accumulate in any given year due to participation in energy efficiency programs in that given year, as well as participation in prior years, to the extent that participation in prior years continues to yield savings. Cumulative annual energy savings account for the fact that measures installed in prior years may have useful lives longer than one year, and therefore produce savings that persist into the future for some time. However, cumulative annual energy savings also reflect savings decay – that is savings that can no longer be counted in a given year once a measure is no longer operational or has “burned out.”

One particularly important distinction between incremental annual savings and cumulative annual savings is that the sum of the incremental annual savings may be greater than the cumulative annual savings over an extended time frame due to measure savings decay. Consider the example in Table 1-4 below. In the example, an energy efficiency program is offering rebates for the purchase of high efficiency televisions. The program runs for five years and obtains one participant per year. Each participant yields 100 kWh in savings a year and it is assumed that the television measures have a useful life of four years. Each year, the new participants in the program provide 100 kWh in incremental annual savings in the year in which they participate and the savings from these participants persist in subsequent years for the life of the television. A participant in Year 1 will yield 100 kWh incremental annual savings in Year 1. This participant will also continue to yield 100 kWh of savings in Years 2 through Year 4. Then, in Year 5, the 100 kWh savings from the first year participant will disappear as it will be assumed that the efficient television will burn out after four years. However, because there is a participant in Year 5, the cumulative annual savings will stay at 400 kWh – what was lost to equipment decay is being replaced by a new participant. The sum of the incremental annual savings in Year 5 is 500 kWh because it is the sum of the savings introduced in each year by the five total participants. The year-by-year incremental annual data and cumulative annual data are provided in the table below.

Table 1-4: Incremental Annual vs. Cumulative Annual Savings Example

| Television Example | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 |
|---------------------------|---------|---------|---------|---------|---------|
| Incremental Annual | 100 kWh | 100 kWh | 100 kWh | 100 kWh | 100 kWh |
| Sum of Incremental Annual | 100 kWh | 200 kWh | 300 kWh | 400 kWh | 500 kWh |
| Cumulative Annual | 100 kWh | 200 kWh | 300 kWh | 400 kWh | 400 kWh |

²⁵ Annual applicability factors based on the NEEP Residential Lighting Strategy. 2013-2014 Update. Table 6. Rate of In Program Bulbs.

1.5 POTENTIAL SAVINGS OVERVIEW

Potential studies often distinguish between several types of energy efficiency potential: technical, economic, achievable, and program. However, because there are often important definitional issues between studies, it is important to understand the definition and scope of each potential estimate as it applies to this analysis.

The first two types of potential, technical and economic, provide a theoretical upper bound for energy savings from energy efficiency measures. Still, even the best-designed portfolio of programs is unlikely to capture 100% of the technical or economic potential. Therefore, achievable potential and program potential attempt to estimate what savings may realistically be achieved through market interventions, when it can be captured, and how much it would cost to do so. Figure 1-1 illustrates the four most common types of energy efficiency potential.

Figure 1-1 Types of Energy Efficiency Potential²⁶

| | | | | |
|--------------------------|----------------------------|----------------------------|--|--------------------------|
| Not Technically Feasible | Technical Potential | | | |
| Not Technically Feasible | Not Cost-Effective | Economic Potential | | |
| Not Technically Feasible | Not Cost-Effective | Market & Adoption Barriers | Achievable Potential | |
| Not Technically Feasible | Not Cost-Effective | Market & Adoption Barriers | Program Design, Budget, Staffing, & Time Constraints | Program Potential |

1.6 TECHNICAL POTENTIAL

Technical potential is the theoretical maximum amount of energy use that could be displaced by efficiency, disregarding all non-engineering constraints such as cost-effectiveness and the willingness of end users to adopt the efficiency measures. Technical potential is only constrained by factors such as technical feasibility and applicability of measures. Under technical potential, the SWE Team assumed that 100% of new construction and burnout measures are adopted as those opportunities become available (e.g., as new buildings are constructed they immediately adopt efficiency measures), while retrofit and early retirement opportunities are replaced incrementally (10% per year) until 100% of homes (residential) and stock (commercial and industrial) are converted to the efficient measures over a period of 10 years.

1.6.1 Core Equation for the Residential Sector

The core equation used in the residential sector energy efficiency technical potential analysis for each individual efficiency measure is shown in Equation 1-1 below.

²⁶ Reproduced from "Guide to Resource Planning with Energy Efficiency." November 2007. US Environmental Protection Agency (EPA). Figure 2-1.

Equation 1-1: Core Equation for Residential Sector Technical Potential



Where:

Base Case Equipment End-Use Intensity = the electricity used per customer per year by each base-case technology in each market segment. In other words, the base case equipment end-use intensity is the consumption of the electrical energy using equipment that the efficient technology replaces or affects.

Saturation Share = the fraction of the end-use electrical energy that is applicable for the efficient technology in a given market segment. For example, for residential water heating, the saturation share would be the fraction of all residential electric customers that have electric water heating in their household.

Remaining Factor = the fraction of equipment that is not considered to already be energy efficient. To extend the example above, the fraction of electric water heaters that is not already energy efficient.²⁷

Applicability Factor = the fraction of the applicable units that is technically feasible for conversion to the most efficient available technology from an engineering perspective (e.g., it may not be possible to install CFLs in all light sockets in a home because the CFLs may not fit in every socket).²⁸

Savings Factor = the percentage reduction in electricity consumption resulting from the application of the efficient technology.

1.6.2 Core Equation for the Nonresidential Sector

The core equation utilized in the nonresidential sector technical potential analysis for each individual efficiency measure is shown in Equation 1-2 below. The SWE Team developed a forecast of nonresidential square footage information for each building type for each EDC, sourced primarily from the 2014 Non-Residential End Use & Saturation Study.

Equation 1-2: Core Equation for Nonresidential Sector Technical Potential



²⁷ For purposes of this study, the remaining factor for replace-on-burnout measures was 100%. This assumes that all measures, regardless of current efficiency, are eligible to revert back to the code baseline at the time of replacement. This is uniquely different from the prior market potential study completed by the SWE Team which removed installed measures that were already energy efficient from the analysis pool. The assumption used in this analysis results in increased potential, but more closely aligns with the EDCs' ability to track savings at the gross savings level.

²⁸ In instances where there are two (or more) competing technologies for the same electrical end use, such as heat pump water heaters, water heater efficiency measures, high-efficiency electric storage water heaters and solar water heating systems, an applicability factor aids in determining the proportion of the available population assigned to each measure. In estimating the technical potential, measures with the most savings are given priority for installation. For all other types of potential, measures with the greatest TRC ratio are assigned installation priority.

Where:

Total Stock Square Footage by Building Type = the forecasted square footage level for a given building type (e.g., office buildings).

Base Case Equipment End-Use Intensity = the electricity used per square foot per year by each base-case equipment type in each market segment. In other words, the base case equipment end-use intensity is the consumption of the electrical energy using equipment that the efficient technology replaces or affects. The SWE Team obtained this end-use consumption data from such sources as the US EIA CBECS & MECS, Pennsylvania EDC data, the Pennsylvania TRM, and others.

Saturation Share = the fraction of the EDC equipment electrical energy that is applicable for the efficient technology in a given market segment. For example, for room air conditioners, the saturation share would be the fraction for a specific EDC of all space cooling kWh in a given market segment that is associated with room air conditioner equipment.

Remaining Factor = the fraction of the equipment or practice that is technically feasible for conversion to the efficient technology from an engineering perspective (e.g., it may not be possible to install VFDs on all motors in a given market segment).

Applicability Factor = the fraction of equipment that is not considered to already be energy efficient. For example, the fraction of electric water heaters that is not already energy efficient.

Savings Factor = the percentage reduction in electricity consumption resulting from the application of the efficient technology.

1.7 ECONOMIC POTENTIAL

Economic potential refers to the subset of the technical potential that is economically cost-effective (based on screening with the TRC) as compared to conventional supply-side energy resources. The SWE Team calculated the TRC benefit-cost ratios for this study according to the Pennsylvania PUC's TRC Orders.

The SWE Team pre-screened possible energy efficiency technologies and practices based on an understanding of which measures were likely to be cost-effective and in the interest of conserving time and effort for other aspects of the analysis. Measure screening allowed the SWE Team to remove measures that were not commercially available, were already at current code, or were not applicable to Pennsylvania. All measures that were not found to be cost-effective based on the results of the TRC were excluded from further analysis. The SWE Team then readjusted and applied allocation factors to the remaining measures that were cost-effective.

1.7.1 Total Resource Cost Test

The SWE Team utilized the 2009 and 2011 Pennsylvania PUC TRC Orders to determine the cost-effectiveness for energy efficiency measures in this potential study. The TRC measures the net costs of a DSM or energy efficiency measure or program as a resource option based on the total costs of the measure/program, including both the participants' and the utility's costs.

In general, the benefits calculated in the TRC usually include the avoided electric supply costs for the periods when there is an electric load reduction; savings of other resources such as fossil fuels and water; and applicable federal and state energy efficiency tax credits. However, consistent with Act 129

and the 2013 PA TRC Order, only the electricity savings and avoided operation and maintenance costs will be used to calculate the benefits for the PA TRC.²⁹

Costs in the TRC (incremental or full cost depending on whether the measure was replaced on burnout or is an early replacement/retrofit) are the program costs paid by the utility (or program administrator) and the participants. Thus, all incremental equipment costs, installation, operation and maintenance, cost of removal, and program administration costs are included in this test regardless of who pays for them. In an effort to be consistent with the National Action Plan for Energy Efficiency's definition of economic potential, the SWE Team will not include marketing; analysis; administration; and evaluation, measurement, and verification (EM&V) costs for the measure cost-effectiveness screening conducted to develop the estimates of economic potential.³⁰ Although excluded from economic potential, these non-incentive costs will be included in the development of program acquisitions costs and estimates of the program costs related to achievable and program potential savings.

The PA TRC Order limits measure lives to a maximum of 15 years when calculating the TRC. Although select energy efficiency measures may have longer effective useful lives (EUL), the measure lives for purposes of cost-effectiveness calculations are capped at a maximum of 15 years.

1.7.2 Avoided Costs

The SWE Team based the avoided cost forecasts utilized for measure cost-effective screening and for reporting potential benefits on the Pennsylvania PUC's 2013 TRC Order and each EDC's avoided cost structure, including energy, transmission, distribution, and generation capacity avoided costs. Each EDC provided the latest available electric generation avoided cost projections, while the SWE Team developed the transmission and distribution (T&D) avoided cost projections used in this study. According to the latest PUC TRC Order, the discount rate used in the calculation of the Pennsylvania TRC is the utility's after-tax weighted average cost of capital. Avoided energy costs were differentiated by time and season where possible.

1.8 ACHIEVABLE POTENTIAL

Achievable potential is the amount of energy that can realistically be saved given various market barriers. Achievable potential takes into account real-world barriers to encouraging end users to adopt efficiency measures; the non-measure costs of delivering programs (for administration, marketing, analysis, and EM&V); and the capability of programs and administrators to boost program activity over time. Barriers include financial, customer awareness and willingness to participate in programs, technical constraints, and other barriers the "program intervention" is modeled to overcome. Additional considerations include political and/or regulatory constraints. The potential study evaluated two achievable potential scenarios:

- **Maximum Achievable** estimates achievable potential on paying incentives equal to 100% of measure incremental costs.
- **Base Achievable** estimates achievable potential on EDCs paying incentive levels (as a percent of incremental measure costs) comparable to those in effect from Program Year (PY) 1 through PY5 along with incentive-rate trends from other regional utilities. As discussed later in Section 2.3, "Phase I/II EDC Performance Benchmarking," incentives have historically been roughly

²⁹ Tax credits, while traditionally a benefit in the TRC are treated as a reduction to costs in the PA TRC, according to the TRC Order.

³⁰ National Action Plan for Energy Efficiency: Understanding Cost-Effectiveness of Energy Efficiency Programs.

57.5% of measure costs in the residential sector, and approximately 25% of measure costs in the commercial and industrial sectors.

While many different incentive scenarios could be modeled, the number of achievable potential scenarios was limited to the two scenarios described above due to the available budget for this potential study. The SWE Team analyzed the two selected achievable potential scenarios with different anticipated penetration curves or market acceptance models for each incentive level. In the maximum achievable scenario, the penetration curve is based on a maximum penetration assuming 100% funding of the measure incremental costs. Previous studies and actual program experience suggest that this curve can reach an asymptote not greater than 85% to 90% over a period of 20 years from the beginning of DSM programs in Pennsylvania under Act 129, as 100% of customers will not accept or adopt energy efficiency measures for various reasons.³¹ The SWE Team also incorporated data collected in the recent Pennsylvania baseline studies on customer willingness to participate at various incentive levels (discussed in more detail below).

The base achievable potential scenario analyzed reflects the expected market adoption associated with the percentage of incremental costs reflected in current EDC incentive levels. Base achievable incentives were set at a percentage of incremental measure costs grounded upon an analysis of Program Year (PY) 1 through PY5 annual report data from the EDCs, as well as other utility regional trends. These two scenarios include forecasts of market penetration that take into account uncertainty based on consumers' willingness to participate in programs.

For new construction, energy efficiency measures can be implemented when each new home or building is constructed, thus the rate of availability will be a direct function of the rate of new construction. For existing buildings, energy efficiency potential in the existing stock of buildings will be captured over time through two principal processes:

- 1) As equipment replacements are made normally in the market when a piece of equipment is at the end of its effective useful life (referred to as "replace-on-burnout" or "turnover" vintage).
- 2) At any time in the life of the equipment or building (referred to as "retrofit" or "early replacement" vintage).

For the replace-on-burnout measures, the opportunity to replace existing equipment with high efficiency equipment is when equipment fails beyond repair or if the consumer is in the process of building or remodeling. Using this approach, only equipment that needs to be replaced in a given year will be eligible to be upgraded to energy efficient equipment.

For the retrofit measures, savings can theoretically be captured at any time; however, in practice, it takes many years to retrofit an entire stock of buildings, even with the most aggressive of energy efficiency programs.

1.9 ACHIEVABLE POTENTIAL MARKET PENETRATION RATES

In an effort to inform estimates of market adoption, the SWE Team analyzed both the historical achievements of the EDCs in prior Phase I and Phase II program years relative to estimates of economic potential, as well as willingness-to-participate research collected as part of the SWE baseline studies. The historical benchmarking estimated an initial "ground floor" market adoption rate while the willingness-to-participate research assisted in the development of long-term market adoption values.

³¹ Driving Demand for Energy Efficiency: Hood River Conservation Project Case Study. LBNL. Additional examples suggesting high levels of program participation are included as an appendix.

1.9.1 Initial Year Market Adoption Rate

The SWE Team compared the historical achievements of the EDCs in PY3, PY4, and PY5 to the economic potential estimated by the 2012 SWE Market Potential Study (MPS) to derive an estimate of what percentage of the SWE-estimated economic potential was actually achieved by the EDCs in these years. The process of completing this comparison consisted of several steps. First, the SWE Team compiled the PY3, PY4, and PY5 kWh savings of each EDC as reported by the EDCs to calculate the total statewide gross verified savings for each year. Then, the SWE Team derived an estimate of economic potential for PY 5 based on the cumulative annual economic potential estimates from the 2012 SWE MPS. As PY3 and PY4 pre-dated the years included in 2012 SWE MPS, the SWE Team also generated an estimate of the economic potential in those years.

Once the SWE Team gathered the statewide PY3, PY4, and PY5 kWh savings and derived estimates of statewide economic potential in those years, the SWE Team was able to calculate the statewide gross verified savings as a percentage of economic potential. The SWE Team then took a simple average of these percentages across PY3, PY4, and PY5 to generate an assumption of the percentage of the economic potential that was actually achieved by the EDCs across the three-year timeframe. In the residential sector, the SWE Team found that the EDCs achieved 30% of the economic potential during that timeframe, while the nonresidential sector achieved 32% of economic potential, according to the methodology detailed above. The SWE Team used this estimate as a starting point for the first year in the market adoption ramp rates used in the base achievable scenario.

For the maximum achievable scenario, the initial year market adoption was adjusted higher based on the assumption that incentives were equal to 100% of the measure cost as well as research findings from the willingness-to-participate research. For example, in the nonresidential sector, the willingness-to-participate findings showed that customers were 2.25 times more likely to adopt an energy efficiency measure with a 100% incentive compared to a 25% incentive. The SWE Team then used this 2.25 multiplier against the base achievable first-year adoption value of 34% for nonresidential to come up with a maximum achievable initial year adoption rate of 76.5%.

1.9.2 Long-Term Market Adoption Rates

Estimating future market adoption of energy efficient technologies is a difficult and uncertain practice. In an effort to inform these estimates, the SWE Team conducted customer likelihood and willingness-to-participate research as part of the statewide baseline studies completed in 2014.³² This research included questions to residential homeowners and nonresidential facility managers regarding their perceived willingness to purchase and install energy efficient technologies across various end uses and incentive levels. Although homeowners were asked about a limited number of specific technologies within end uses, the SWE Team extended these results across whole end uses. By contrast, facility managers were asked about a range of lighting technologies within the lighting end use.

Once the SWE Team established historical market adoption rates for the initial year of the analysis, the SWE Team utilized likelihood and willingness-to-participate data to estimate the long-term (10-year) market adoption potential for both the maximum and base achievable scenarios. Figure 1-2 presents the long-term market adoption rates assumed for the residential sector. When incentives are assumed to

³² For a more complete description of this research, reference the 2014 statewide baseline studies completed for both the residential and nonresidential sectors.

be 100% of the measure cost, long-term market adoption ranged from 80% to 85%.³³ For the base achievable potential scenario (incentives assumed to be 57.5% of the measure cost), the long-term market adoption rates ranged from 40% for building shell measures (insulation) to 85% for appliances (refrigerators). The SWE Team assumed a linear ramp rate over 10 years from the initial year market adoption rate (30%) to the various long-term market adoption rates for each specific end use.

Figure 1-2: Long-Term Market Adoption Rates based on Residential Willingness-to-Participate Survey Results

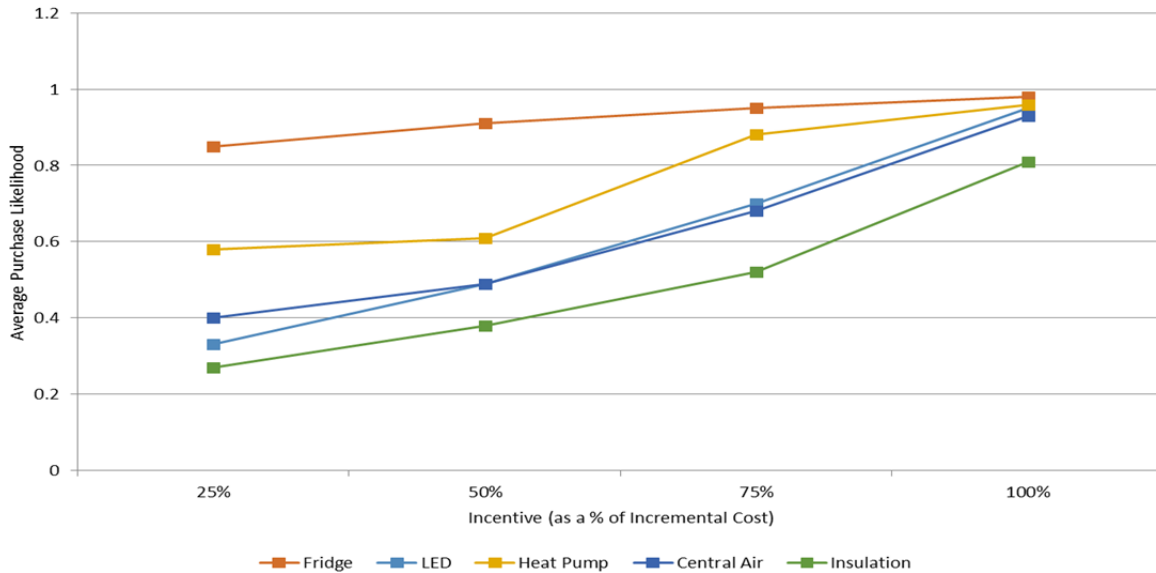
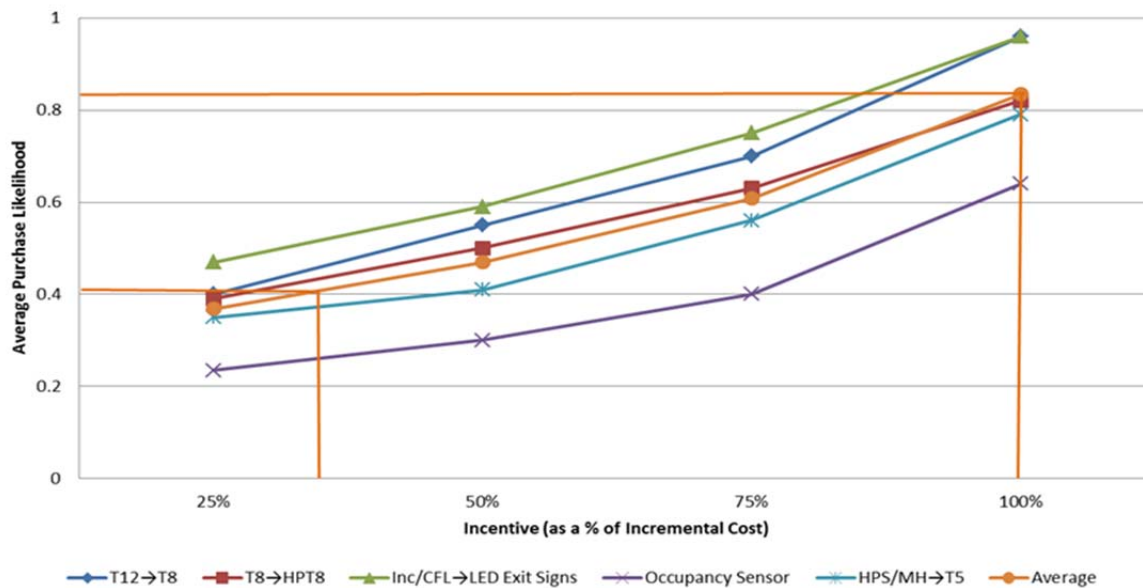


Figure 1-3 shows the willingness-to-participate survey results and long-term market adoption rate for the nonresidential sector. The average long-term adoption rate for the base achievable scenario (which assumes a 35% incentive rate) was estimated to reach 41% at the end of the 10-year period, while the maximum achievable scenario (with a 100% incentive rate) was estimated to reach an average adoption rate of 83% after 10 years. The SWE Team then applied a linear growth rate from the analysis’ first-year adoption rate of 34% to reach the 10-year long-term adoption rate of 41% under the base achievable scenario, while the maximum achievable scenario achieved 83% adoption in the tenth year.

³³ Although the willingness to participate research indicated willingness levels above 85% at the 100% of incremental cost incentive level, the SWE capped long term market adoption rates at 85%.

Figure 1-3: Long-Term Market Adoption Rates based on Nonresidential Willingness-to-Participate Survey Results



1.10 PROGRAM POTENTIAL

While the identified achievable potential includes energy efficiency potential available in the marketplace, it was vital to isolate the portion that could be realistically acquired through EDC programs. It is important to recognize that there are program constraints such as available program funding (cost caps), how much time is available to deliver programs or reach a compliance target, NTG factors, consumer willingness to participate in programs or adopt measures, and the possibility of specific “set-asides” for the low income and institutional sectors.

The SWE Team analyzed program potential using an achievable-to-program potential “scaling” analysis based on Act 129 funding caps. This approach had the added benefit of not imposing any direct program design decisions on the EDCs. Act 129 set the annual funding levels for DSM at no more than 2% of 2006 Pennsylvania utility electric revenues (for the EDCs subject to Act 129). Therefore, the SWE Team calculated the program potential estimate for the five-year period ending in 2020 as follows:

- a) First, the SWE Team calculated technical potential.
- b) Then, the SWE Team calculated economic potential (TRC benefit-cost testing was applied at this step).
- c) Next, the SWE Team calculated achievable potential (penetration rate forecasts were applied to economic potential to arrive at achievable potential). The achievable potential estimates are based on forecasts of kWh and kW savings estimates from 2016 through 2025 for all cost-effective energy efficiency measures. The achievable potential estimates are provided for each individual energy efficiency measure, and for all measures combined. Based on the savings associated with the measures included in the base achievable potential scenario, the SWE Team then developed portfolio acquisition costs (by summing the five-year annual incremental administrative plus incentive costs, divided by the five-year sum of incremental annual energy savings).

- d) Finally, the SWE Team calculated program potential based on a target annual utility energy efficiency budget that is 2% of annual utility revenues in the year 2006. The calculated kWh and kW base achievable potential estimates were scaled up or down across the board with a single factor until the utility costs for the program potential scenario were equal to 2% of annual utility revenues in 2006. When the budget and the savings are scaled to the 2% utility spending target, the development of the program potential estimate is complete.

2 Characterization of Pennsylvania Service Areas & Phase I/II Program Offerings

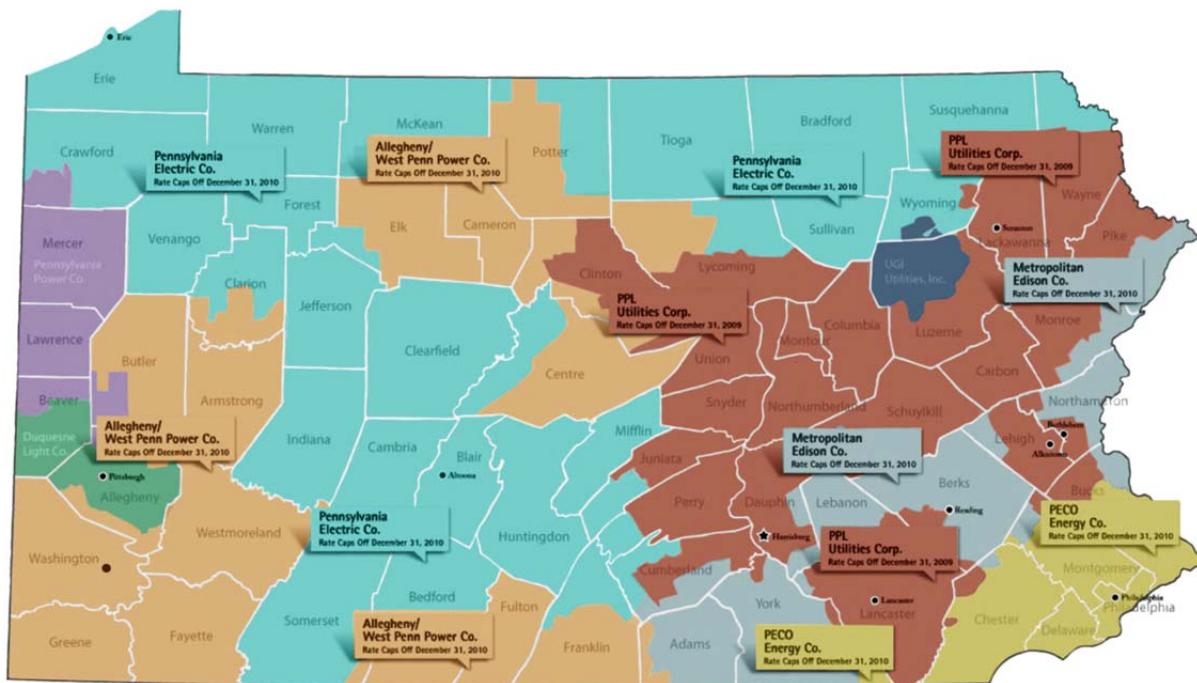
The following section provides a brief overview of the seven EDC service areas included under Act 129, their forecasted load, and a brief overview of their performance for Phase I and Phase II to date (i.e., PY1 through PY5).

2.1 EDC AREAS

There are currently eleven EDCs that provide energy to Pennsylvania customers. The focus of this analysis is on the seven largest EDCs, including: Duquesne Light Company (Duquesne), Metropolitan Edison Company (Met-Ed), Pennsylvania Electric Company (Penelec), Pennsylvania Power Company (Penn Power), West Penn Power Company (West Penn), PECO Energy Company (PECO), and PPL Electric Utilities Corporation (PPL).

Figure 2-1 shows the service areas for each of the seven Pennsylvania EDCs included in this study. Each EDC’s service area varies in size and demographics.

Figure 2-1: Pennsylvania EDC Service Area Map



2.2 2010 HISTORICAL LOAD & STATEWIDE LOAD FORECAST

2.2.1 2010 Historical Load

Table 2-1 presents the forecasted energy (MWh) sales by EDC and customer class for the period beginning June 2009 and ending May 2010. The SWE Team has selected the load of this year to be consistent with Act 129 of 2008, which required the EDCs to reduce electric consumption at least 1% by May 31, 2011, and 3% by May 31, 2013, relative to their forecast load for the period June 1, 2009 through May 31, 2010. Savings targets for Phase II of Act 129 were also established based on the

2009/2010 forecast load. Consequently, the savings potential estimates in this report have also been compared to the 2009/2010 forecast load for each EDC.

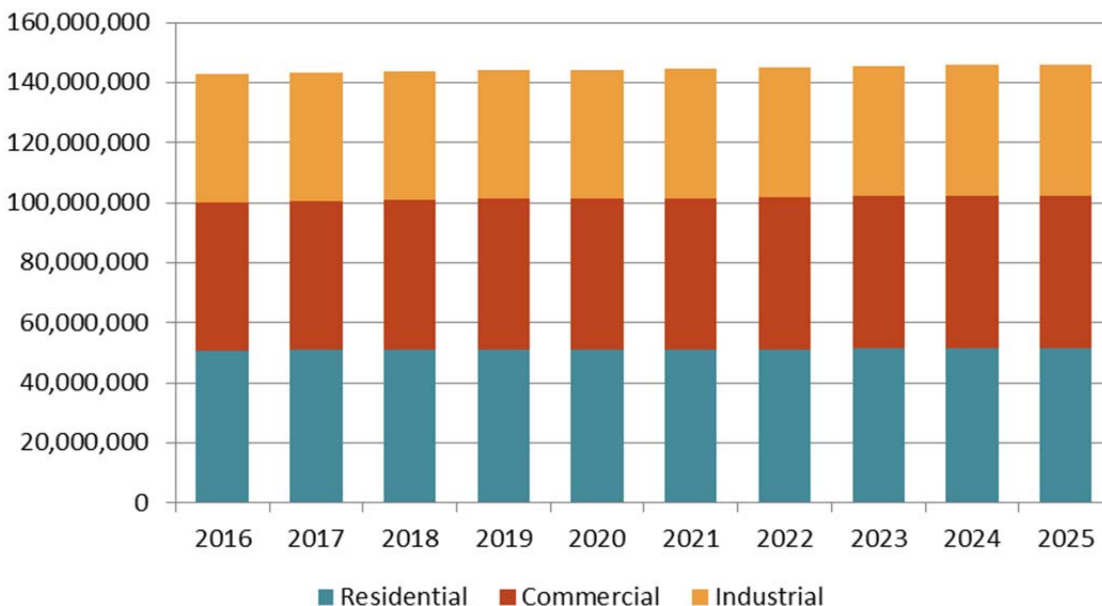
Table 2-1: 2009/2010 Energy (MWh) Forecast Sales by EDC and Customer Sector

| EDC | Residential | Commercial | Industrial | Total |
|-----------------------|-------------------|-------------------|-------------------|--------------------|
| Duquesne | 4,188,344 | 7,081,429 | 2,815,727 | 14,085,500 |
| FE: Met-Ed | 6,199,448 | 4,126,943 | 4,538,643 | 14,865,033 |
| FE: Penelec | 4,882,328 | 4,261,919 | 5,255,052 | 14,399,300 |
| FE: Penn Power | 1,845,141 | 1,162,174 | 1,765,619 | 4,772,933 |
| FE: West Penn | 7,931,627 | 5,533,913 | 7,473,127 | 20,938,667 |
| PECO | 14,009,363 | 20,961,102 | 4,415,535 | 39,386,000 |
| PPL | 15,136,306 | 12,829,784 | 10,248,276 | 38,214,367 |
| Statewide | 54,192,558 | 55,957,264 | 36,511,978 | 146,661,800 |

2.2.2 Statewide Load Forecast

As discussed earlier, a critical first step in the modeling process is to disaggregate each EDC's load by sector. As shown in Figure 2-2, the statewide annual MWh sales are distributed fairly evenly among the residential, commercial, and industrial sectors, with approximately 35% of annual MWh sales from 2016 through 2025 in each of the residential and commercial sectors, and 30% of annual MWh sales in the industrial sector. The MWh sales forecast grows at a compound annual growth rate of 0.24% per year across all sectors over the 10-year forecast.

Figure 2-2: Statewide Energy (MWh) Sales Forecast by Sector from June 2016-May 2025



2.3 PHASE I/II EDC PERFORMANCE BENCHMARKING

The SWE Team conducted an extensive review of all available information pertaining to the EDCs' Phase I and Phase II energy efficiency program performance. The SWE Team reviewed each of the EDC's filed annual reports (PY1 through PY5) and collected various data points including verified savings, EDC expenditures, and participant costs to establish benchmarking data on EDC performance through the first five years of their DSM programs under Act 129. Metrics tracked include the following:

- 1) Incentive expenditures as a percentage of incremental costs
- 2) Administrative costs (\$/kWh saved)
- 3) Acquisition costs (\$/kWh saved)
- 4) Savings as a percentage of 2010 load

The purpose of this step was to understand historical program delivery and performance, and to help inform estimates of achievable and program potential. Because this study focuses on energy efficiency potential only, demand management programs, renewable energy programs, conservation voltage reduction (CVR) programs, and other programs not involving energy efficiency savings were excluded from this analysis. Only the costs and savings for the applicable energy efficiency programs were captured when rolling up the metrics discussed below.

Table 2-2 shows the average statewide incentive rate for PY1 through PY5 as 57% of incremental costs for residential, 24% for nonresidential, and 33% across the entire portfolio. In addition, the EDCs are spending an average of \$0.069 for each kWh saved in non-incentive costs across their portfolios. The SWE Team used these numbers to help inform the achievable base incentive rate in the potential modeling, as well as the administrative cost per kWh saved when calculating the acquisition costs associated with the achievable base scenario.

Table 2-2: Statewide Cumulative Five-Year Program Savings and Costs by Sector

| Sector | Verified Impact (MWh) | Total Incentive \$ | Total Admin \$ | Participant \$ | Incentive Rate | Admin Cost \$/1 st -YR kWh-saved |
|-----------------------|-----------------------|----------------------|----------------------|------------------------|----------------|---|
| Residential | 3,210,689 | \$177,832,506 | \$244,418,083 | \$309,659,924 | 57% | \$0.076 |
| Nonresidential | 2,829,403 | \$206,874,090 | \$170,480,829 | \$853,868,453 | 24% | \$0.060 |
| Portfolio | 6,040,092 | \$384,706,596 | \$414,898,912 | \$1,163,528,376 | 33% | \$0.069 |

Table 2-3 shows the acquisition costs per first-year kWh saved by sector by year across all EDCs. Throughout the first five years of program offerings, the EDCs are acquiring each first-year kWh of energy efficiency savings for roughly \$0.16/kWh.

Table 2-3: Statewide Annual Incremental Acquisition Costs by Sector, by Program Year (\$/1YR kWh saved)

| Sector | PY1 | PY2 | PY3 | PY4 | PY5 |
|-----------------------|----------------|----------------|----------------|----------------|----------------|
| Residential | \$0.114 | \$0.123 | \$0.149 | \$0.111 | \$0.161 |
| Nonresidential | \$0.172 | \$0.134 | \$0.140 | \$0.129 | \$0.169 |
| Portfolio | \$0.126 | \$0.128 | \$0.144 | \$0.121 | \$0.164 |

Table 2-4 shows the annual incremental savings by sector as a percentage of 2010 load in each sector. As the programs have matured, the EDCs have increased their savings from 0.21% of 2010 sales in PY1 to 1.25% of 2010 sales in PY4. However, savings as a percent of 2010 load declined in the first year of Phase II.

Table 2-4: Statewide Annual Incremental Savings as a % of 2010 load by Sector by Year

| Sector | PY1 | PY2 | PY3 | PY4 | PY5 |
|-----------------------|--------------|-------------|-------------|-------------|-------------|
| Residential | 0.5% | 1.6% | 1.4% | 1.5% | 1.2% |
| Nonresidential | 0.1% | 0.7% | 0.8% | 1.1% | 0.5% |
| Portfolio | 0.21% | 1.1% | 1.0% | 1.3% | 0.7% |

While these performance metrics are informative and point to successes on the part of the EDCs to capture large amounts of energy efficiency at reasonable costs, they also reflect savings associated with “low-hanging fruit” such as CFLs and linear fluorescent T8 lamps. The savings percentage and acquisition costs are also indicative of lighting savings (which accounted for the majority of PY1 through PY5 savings) with a lower baseline. That is, the savings were obtained before federal lighting standards raised the efficiency of a large share of the residential and commercial lamps, including the phase-out of standard incandescent bulbs and T12 linear fluorescent lamps and magnetic ballasts. These improved codes and standards are not only expected to erode savings potential in these lighting programs, but also increase the cost for lighting programs and drive EDCs to deeper DSM savings in other non-lighting end uses.

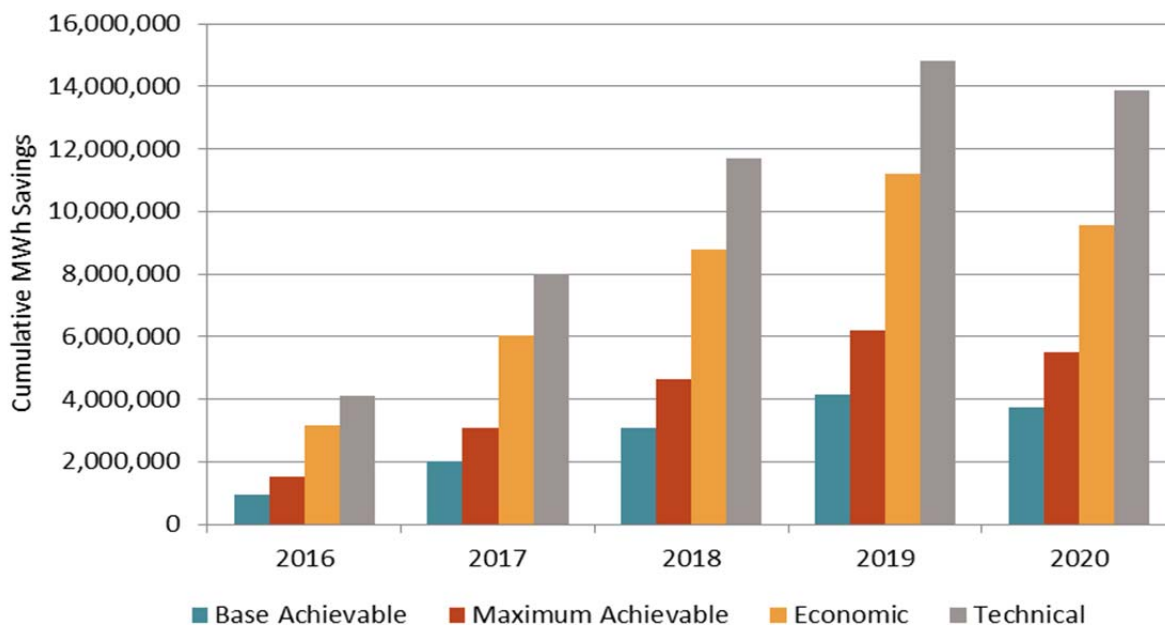
3 Residential Energy Efficiency Potential

This section of the report presents the estimates of electric technical, economic, and achievable potential for the Commonwealth of Pennsylvania as well as for each EDC service area. Program potential is discussed separately in Section 6 of this report. Electric energy efficiency savings, cost estimates, and benefit-cost estimates are presented in this section.

3.1 SUMMARY

Figure 3-1 summarizes the electric energy efficiency savings potential for the residential sector for all seven EDCs combined across the state. The five-year cumulative annual energy savings potential under the base achievable scenario amounts to 3,722,120 MWh and 506 MW by 2020, representing a possible 6.9% reduction of 2010 load in the residential sector.

Figure 3-1: Residential Cumulative Annual Savings Potential by Scenario by Year



The slight decrease in potential from 2019 to 2020 is a result of a significant baseline shift in residential lighting efficiency from a halogen bulb in 2019 to a CFL bulb in 2020, and the associated decrease in savings opportunities for LED technologies. This shifting efficiency baseline assumption was discussed earlier in Section 1.3.4, “Treatment of Codes and Standards.”

Table 3-1 also presents the same estimates for electric energy efficiency savings potential for the residential sector, but includes a look at 10-year cumulative energy savings as well as demand savings potential resulting from the implementation of energy efficiency measures.

Technical potential, which reflects the adoption of all energy efficient technologies, is a theoretical upper bound on savings. The five-year technical potential is 13.9 million MWh on a cumulative annual basis (2,398 MW).

Economic Potential, which reflects the savings when all cost-effective measures are implemented, is 9.6 million MWh on a cumulative annual basis (1,324 MW) in 2020.

Maximum Achievable Potential is a subset of economic potential and represents the attainable savings assuming incentive levels are set at 100% of measure incremental costs and the long-term market penetration of high efficiency electric equipment reaches 85% in any given year. Maximum achievable potential is 5.5 million MWh (755 MW) in 2020, or 10.1% of 2010 residential load.

Base Achievable Potential is also a subset of economic potential and represents the SWE Team's best estimate of attainable savings potential assuming comprehensive implementation of all cost-effective measures and no restrictions on budget. The base achievable potential scenario assumes incentive levels are set at 57.5% of measure incremental costs. Base achievable is estimated at 953,810 MWh in the first year (2016). Base achievable potential savings are 3.7 million MWh (506 MW) in 2020, or 6.9% of 2010 residential load.

Table 3-1: Residential Cumulative Annual Energy (MWh) and Demand (MW) Savings Potential by Scenario by Year

| | 2016 | 2017 | 2018 | 2019 | 2020 | 2025 |
|---|-----------|-----------|------------|------------|------------|------------|
| Cumulative Energy Savings Potential - MWh | | | | | | |
| Technical | 4,098,645 | 8,012,703 | 11,702,677 | 14,818,309 | 13,857,691 | 20,735,423 |
| Economic | 3,178,908 | 6,056,394 | 8,772,730 | 11,223,805 | 9,561,552 | 13,143,049 |
| Maximum Achievable | 1,537,529 | 3,071,045 | 4,649,025 | 6,197,840 | 5,495,310 | 9,486,677 |
| Base Achievable | 953,810 | 2,005,954 | 3,087,372 | 4,149,256 | 3,722,120 | 6,587,083 |
| Cumulative Energy Savings Potential - % of 2010 Residential Load | | | | | | |
| Technical | 7.6% | 14.8% | 21.6% | 27.3% | 25.6% | 38.3% |
| Economic | 5.9% | 11.2% | 16.2% | 20.7% | 17.6% | 24.3% |
| Maximum Achievable | 2.8% | 5.7% | 8.6% | 11.4% | 10.1% | 17.5% |
| Base Achievable | 1.8% | 3.7% | 5.7% | 7.7% | 6.9% | 12.2% |
| Demand Savings Potential - Summer Peak MW | | | | | | |
| Technical | 640.6 | 1,228.1 | 1,820.0 | 2,366.3 | 2,398.4 | 3,890.8 |
| Economic | 419.9 | 777.8 | 1,144.7 | 1,491.0 | 1,324.3 | 1,858.0 |
| Maximum Achievable | 202.2 | 392.5 | 602.2 | 816.0 | 755.4 | 1,324.3 |
| Base Achievable | 129.5 | 258.3 | 399.8 | 543.7 | 506.4 | 893.7 |

3.2 RESIDENTIAL POTENTIAL BY MARKET SEGMENT

Figure 3-2 shows the five-year cumulative annual savings potential by home type under the base achievable potential scenario. Single family detached homes account for the largest share of the statewide residential market, and accordingly, represent the housing type with the largest potential for electric energy efficiency savings. According to US Census and existing demographic data supplied by the EDCs, single family detached homes represent 59.5% of the residential housing market (weighted by population across the seven EDCs) and 72.5% of 2020 energy savings potential.³⁴

³⁴ Housing market segmentation is discussed in the Pennsylvania Statewide Act 129 2014 Residential Baseline Study.

Figure 3-2: 2020 Residential Base Achievable Energy Savings Distribution by Housing Type

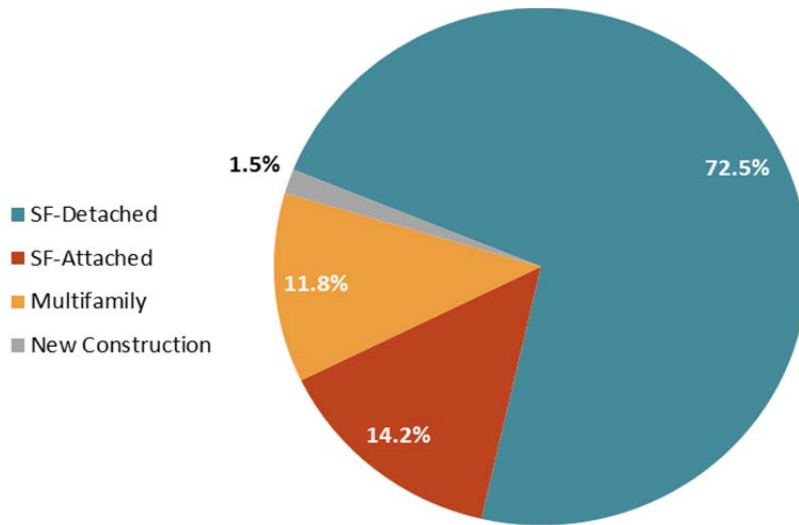


Table 3-2 details the same five-year findings and summarizes the varying savings potential under each scenario. Table 3-2 also provides the summer five-year cumulative annual demand savings potential.

Table 3-2: 2020 Residential Cumulative Annual Energy (MWh) and Demand (MW) Savings Potential by Housing Type

| | Existing SF-Detached | Existing SF-Attached | Existing Multifamily | New Construction |
|--|----------------------|----------------------|----------------------|------------------|
| 2020 Cumulative Base Achievable Energy Savings Potential - MWh | | | | |
| Technical | 9,486,200 | 2,051,711 | 2,051,516 | 268,264 |
| Economic | 6,966,793 | 1,350,224 | 1,094,463 | 150,072 |
| Max Achievable | 3,999,996 | 778,620 | 633,139 | 83,555 |
| Base Achievable | 2,697,529 | 527,501 | 440,442 | 56,649 |
| 2020 Cumulative Base Achievable Energy Savings Potential - % of 2010 Residential Load | | | | |
| Technical | 17.5% | 3.8% | 3.8% | 0.5% |
| Economic | 12.9% | 2.5% | 2.0% | 0.3% |
| Max Achievable | 7.4% | 1.4% | 1.2% | 0.2% |
| Base Achievable | 5.0% | 1.0% | 0.8% | 0.1% |
| 2020 Demand Savings Potential - Summer Peak MW | | | | |
| Technical | 1,574.7 | 388.6 | 396.9 | 38.2 |
| Economic | 913.2 | 207.1 | 187.5 | 16.4 |
| Max Achievable | 520.2 | 118.5 | 107.6 | 9.1 |
| Base Achievable | 347.1 | 79.3 | 73.7 | 6.3 |

The SWE Team also analyzed residential energy efficiency potential between low income and non-low income consumers.³⁵ Low income potential includes savings stemming directly from low income-specific measures as well as additional savings attributed to low income participants in non-low income-specific programs. Low income-specific measures include those offerings where EDCs are expected to pay 100% of the measure cost to low income-qualified customers.³⁶ Savings attributed to the low income sector

³⁵ The percent of the population estimated to be low income was derived from the US Census: 2011 American Community Survey, Three-Year Estimates.

³⁶ The threshold for cost-effectiveness for low income specific measures was below the traditional screening level of 1.0. Low income-specific measures were retained in the economic and achievable potential if they had a TRC ratio of 0.25 or higher.

from non-low income measures do not assume any additional incentives above and beyond the standard offering.

The SWE Team developed the list of low income-specific measures included in this analysis based on the historical low income offerings of the seven EDCs and included CFL/LED lighting installation, appliance upgrades, and heating, ventilation and air conditioning (HVAC) equipment and shell improvements. The percent of savings attributed to the low income sector from non-low income measures was estimated at 15%, and was based on the average reported values in the EDCs' most recent annual reports (PY5) to the Commission.

As Table 3-3 shows, in total, the 2020 base achievable savings from low income participants is 825,104 MWh, or approximately 1.5% of 2010 residential load. Savings from non-low income participants are 2.9 million MWh, or roughly 5.3% of 2010 residential load.

Table 3-3: 2020 Residential Cumulative Annual Energy (MWh) and Demand (MW) Savings Potential Estimates by Income Type

| | Non-Low Income | Low Income |
|--|----------------|------------|
| 2020 Cumulative Base Achievable Energy Savings Potential – MWh | | |
| Technical | 10,739,225 | 3,118,466 |
| Economic | 7,087,381 | 2,474,171 |
| Max Achievable | 4,075,805 | 1,419,506 |
| Base Achievable | 2,897,015 | 825,104 |
| 2020 Cumulative Base Achievable Energy Savings Potential - % of 2010 Residential Load | | |
| Technical | 19.8% | 5.8% |
| Economic | 13.1% | 4.6% |
| Max Achievable | 7.5% | 2.6% |
| Base Achievable | 5.3% | 1.5% |
| 2020 Demand Savings Potential – Summer Peak PW | | |
| Technical | 1,886.7 | 511.7 |
| Economic | 972.5 | 351.7 |
| Max Achievable | 554.9 | 200.5 |
| Base Achievable | 395.4 | 111.0 |

3.3 RESIDENTIAL POTENTIAL BY END USE

Figure 3-3 shows the residential cumulative annual energy and demand savings by end use for the base achievable scenario in 2020. Lighting represents the greatest share of the residential base achievable potential energy savings (35.6%), despite higher baseline conditions with CFLs in place of EISA-compliant halogens starting in 2020. The “Cross-Cutting” end use, consisting primarily of behavioral energy efficiency measures that provide energy consumption feedback to consumers in an effort to encourage reduced energy use, represents the third largest for potential savings due to its widespread applicability to nearly all households. Savings from the water heating, HVAC equipment, and building envelope end uses, although also substantial, are limited due to cost-effectiveness concerns and/or applicability of electric space and/or water heating across the EDCs.

Lighting also represents the greatest opportunity for demand savings in 2020 from energy efficient improvements. However, improvements to HVAC equipment and the building envelope are also opportunities for significant demand reductions.

Figure 3-3: 2020 Base Achievable Savings Potential Distribution by End Use

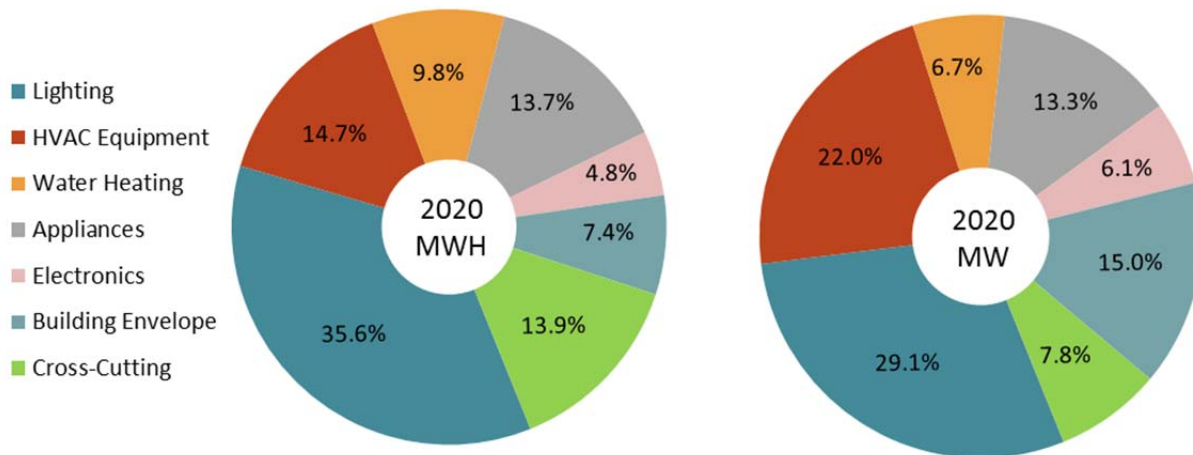


Table 3-4 provides the residential cumulative annual energy savings potential by end use for 2016 through 2020 as well as 2025. The annual look at estimated electric energy efficiency potential depicts the anticipated decrease in lighting potential from 2019 to 2020 as a result of the 2007 EISA backstop provision going into effect. However, lighting remains the end use with the greatest electric efficiency potential due to the high saturation of sockets eligible to be converted to LEDs.

Table 3-4: Residential Cumulative Annual Energy (MWh) Savings Potential by End Use by Scenario

| Energy (MWh) | 2016 | 2017 | 2018 | 2019 | 2020 | 2025 |
|--------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Lighting | | | | | | |
| Technical | 1,449,792 | 3,149,477 | 4,720,332 | 6,290,309 | 3,703,410 | 3,841,113 |
| Economic | 1,430,812 | 3,111,570 | 4,663,557 | 6,214,674 | 3,637,138 | 3,708,909 |
| Max Achievable | 677,768 | 1,544,366 | 2,419,900 | 3,356,697 | 2,017,307 | 2,834,938 |
| Base Achievable | 451,236 | 1,024,695 | 1,600,553 | 2,213,686 | 1,326,647 | 1,828,932 |
| HVAC Equipment | | | | | | |
| Technical | 588,858 | 1,176,608 | 1,763,250 | 2,348,784 | 2,894,675 | 5,400,049 |
| Economic | 282,823 | 565,646 | 848,469 | 1,131,292 | 1,375,580 | 2,458,856 |
| Max Achievable | 137,711 | 286,660 | 446,848 | 618,275 | 782,157 | 1,678,223 |
| Base Achievable | 93,946 | 196,991 | 309,136 | 430,379 | 548,234 | 1,212,546 |
| Water Heating | | | | | | |
| Technical | 361,916 | 721,932 | 1,080,060 | 1,436,833 | 1,787,206 | 3,455,261 |
| Economic | 215,162 | 429,311 | 642,455 | 854,865 | 1,061,358 | 1,955,288 |
| Max Achievable | 104,204 | 215,870 | 334,929 | 461,468 | 593,119 | 1,298,418 |
| Base Achievable | 67,781 | 138,467 | 212,037 | 288,561 | 366,453 | 757,217 |
| Appliances | | | | | | |
| Technical | 254,675 | 508,958 | 762,835 | 1,016,566 | 1,270,077 | 2,198,674 |
| Economic | 229,861 | 459,456 | 688,778 | 917,997 | 1,147,070 | 1,948,778 |
| Max Achievable | 112,048 | 233,215 | 363,475 | 502,910 | 651,484 | 1,356,453 |
| Base Achievable | 80,144 | 171,364 | 273,628 | 386,995 | 511,427 | 1,170,285 |
| Electronics | | | | | | |
| Technical | 141,133 | 281,720 | 421,711 | 561,611 | 651,063 | 1,025,038 |
| Economic | 88,264 | 176,191 | 263,746 | 351,248 | 388,424 | 501,624 |
| Max Achievable | 43,025 | 89,428 | 139,161 | 192,389 | 224,795 | 372,056 |
| Base Achievable | 30,849 | 65,930 | 105,190 | 148,753 | 179,032 | 325,563 |
| Building Envelope | | | | | | |

| Energy (MWh) | 2016 | 2017 | 2018 | 2019 | 2020 | 2025 |
|------------------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|
| Technical | 370,611 | 729,135 | 1,075,591 | 1,410,619 | 1,735,870 | 3,226,918 |
| Economic | 165,528 | 326,734 | 483,617 | 636,178 | 785,710 | 1,486,852 |
| Max Achievable | 80,562 | 166,028 | 256,141 | 350,624 | 449,531 | 1,000,732 |
| Base Achievable | 52,053 | 105,567 | 160,446 | 216,589 | 274,031 | 577,225 |
| Cross-Cutting/ Pools* | | | | | | |
| Technical | 931,661 | 1,444,874 | 1,878,898 | 1,753,587 | 1,815,391 | 1,588,370 |
| Economic | 766,457 | 987,486 | 1,182,108 | 1,117,551 | 1,166,273 | 1,082,741 |
| Max Achievable | 382,212 | 535,478 | 688,571 | 715,478 | 776,918 | 945,858 |
| Base Achievable | 177,801 | 302,939 | 426,382 | 464,293 | 516,296 | 715,315 |
| Total | | | | | | |
| Technical | 4,098,645 | 8,012,703 | 11,702,677 | 14,818,309 | 13,857,691 | 20,735,423 |
| Economic | 3,178,908 | 6,056,394 | 8,772,730 | 11,223,805 | 9,561,552 | 13,143,049 |
| Max Achievable | 1,537,529 | 3,071,045 | 4,649,025 | 6,197,840 | 5,495,310 | 9,486,677 |
| Base Achievable | 953,810 | 2,005,954 | 3,087,372 | 4,149,256 | 3,722,120 | 6,587,083 |

* Cross-cutting refers to behavioral measures. Efficient pool pumps were not cost-effective and were only included in estimates of technical potential.

3.4 RESIDENTIAL POTENTIAL BY EDC

The SWE Team calculated electric energy efficiency potential for each EDC individually to produce a cumulative estimate of energy efficiency savings potential.

Table 3-5 provides the cumulative annual energy (MWh) savings and percentage of 2010 load. Across the EDCs, the base achievable potential ranges from 6.0% to 7.6% of 2010 residential load over a five year period. The five-year cumulative annual energy savings potential for all seven EDCs combined is estimated at 3.7 million MWh, or 6.9% of 2010 residential sector load.

Table 3-5 Residential Cumulative Annual Energy (MWh) Savings Potential by EDC by Scenario by Year

| | 2016 | 2017 | 2018 | 2019 | 2020 | 2025 |
|---------------------------------------|-------------|-------------|-------------|-------------|-------------|--------------|
| Duquesne | | | | | | |
| Technical | 369,200 | 698,645 | 1,019,201 | 1,288,671 | 1,172,347 | 1,714,471 |
| Economic | 286,431 | 512,969 | 738,114 | 958,784 | 785,624 | 1,083,208 |
| Maximum Achievable | 138,419 | 259,973 | 390,680 | 528,197 | 450,355 | 783,124 |
| Base Achievable | 84,269 | 169,071 | 260,085 | 355,797 | 309,448 | 558,676 |
| Base Achievable % of 2010 Load | 2.0% | 4.0% | 6.2% | 8.5% | 7.4% | 13.3% |
| FE: Met-Ed | | | | | | |
| Technical | 421,700 | 843,991 | 1,235,219 | 1,567,803 | 1,458,744 | 2,161,579 |
| Economic | 327,951 | 645,870 | 938,322 | 1,200,615 | 1,018,129 | 1,375,964 |
| Maximum Achievable | 158,467 | 327,041 | 496,587 | 662,131 | 584,161 | 995,352 |
| Base Achievable | 98,786 | 214,137 | 330,106 | 443,427 | 395,743 | 691,195 |
| Base Achievable % of 2010 Load | 1.6% | 3.5% | 5.3% | 7.2% | 6.4% | 11.1% |
| FE: Penelec | | | | | | |
| Technical | 359,420 | 696,485 | 1,018,343 | 1,289,499 | 1,217,197 | 1,827,672 |
| Economic | 299,422 | 565,376 | 820,713 | 1,052,538 | 938,198 | 1,338,637 |
| Maximum Achievable | 145,083 | 287,199 | 435,641 | 582,135 | 540,268 | 962,486 |
| Base Achievable | 90,861 | 188,873 | 291,378 | 392,894 | 370,178 | 681,640 |
| Base Achievable % of 2010 Load | 1.9% | 3.9% | 6.0% | 8.0% | 7.6% | 14.0% |
| FE: Penn Power | | | | | | |

| | 2016 | 2017 | 2018 | 2019 | 2020 | 2025 |
|---------------------------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|
| Technical | 120,088 | 235,778 | 345,721 | 439,806 | 397,657 | 584,278 |
| Economic | 96,683 | 185,656 | 270,304 | 347,368 | 287,285 | 388,246 |
| Maximum Achievable | 46,615 | 93,817 | 142,749 | 191,134 | 164,336 | 280,654 |
| Base Achievable | 29,186 | 61,466 | 94,886 | 127,942 | 111,328 | 194,951 |
| Base Achievable % of 2010 Load | 1.6% | 3.3% | 5.1% | 6.9% | 6.0% | 10.6% |
| FE: West Penn | | | | | | |
| Technical | 625,593 | 1,225,242 | 1,789,812 | 2,267,881 | 2,119,298 | 3,174,272 |
| Economic | 502,883 | 963,675 | 1,398,384 | 1,789,247 | 1,547,304 | 2,167,663 |
| Maximum Achievable | 243,270 | 488,826 | 741,523 | 988,698 | 889,270 | 1,557,092 |
| Base Achievable | 151,583 | 319,256 | 491,421 | 659,650 | 598,365 | 1,066,318 |
| Base Achievable % of 2010 Load | 1.9% | 4.0% | 6.2% | 8.3% | 7.5% | 13.4% |
| PECO | | | | | | |
| Technical | 1,079,859 | 2,086,105 | 3,045,082 | 3,846,841 | 3,648,261 | 5,513,418 |
| Economic | 793,136 | 1,482,935 | 2,142,702 | 2,724,934 | 2,298,815 | 3,096,489 |
| Maximum Achievable | 383,559 | 752,257 | 1,136,291 | 1,506,695 | 1,324,290 | 2,247,574 |
| Base Achievable | 236,373 | 490,113 | 754,054 | 1,009,008 | 898,129 | 1,568,071 |
| Base Achievable % of 2010 Load | 1.7% | 3.5% | 5.4% | 7.2% | 6.4% | 11.2% |
| PPL | | | | | | |
| Technical | 1,122,784 | 2,226,457 | 3,249,300 | 4,117,807 | 3,844,188 | 5,759,733 |
| Economic | 872,402 | 1,699,913 | 2,464,191 | 3,150,320 | 2,686,197 | 3,692,841 |
| Maximum Achievable | 422,117 | 861,932 | 1,305,554 | 1,738,850 | 1,542,630 | 2,660,395 |
| Base Achievable | 262,752 | 563,037 | 865,444 | 1,160,539 | 1,038,929 | 1,826,233 |
| Base Achievable % of 2010 Load | 1.7% | 3.7% | 5.7% | 7.7% | 6.9% | 12.1% |
| Statewide Total | | | | | | |
| Technical | 4,098,645 | 8,012,703 | 11,702,677 | 14,818,309 | 13,857,691 | 20,735,423 |
| Economic | 3,178,908 | 6,056,394 | 8,772,730 | 11,223,805 | 9,561,552 | 13,143,049 |
| Maximum Achievable | 1,537,529 | 3,071,045 | 4,649,025 | 6,197,840 | 5,495,310 | 9,486,677 |
| Base Achievable | 953,810 | 2,005,954 | 3,087,372 | 4,149,256 | 3,722,120 | 6,587,083 |
| Base Achievable % of 2010 Load | 1.8% | 3.7% | 5.7% | 7.7% | 6.9% | 12.2% |

3.5 RESIDENTIAL BENEFITS AND COSTS

Table 3-6 provides the economic impacts by EDC for the residential achievable scenarios. Overall, capturing the estimated program potential would result in an NPV of nearly \$2.25 billion in lifetime benefits for an investment of \$1.25 billion (NPV) in the base achievable potential scenario. The Commonwealth of Pennsylvania would capture about \$997 million in present value net benefits and a TRC ratio of 1.8.

Table 3-6: 2020 Residential TRC Benefit-Cost Ratios by Achievable Scenario by EDC

| | NPV Costs (Million \$) | NPV Benefits (Million \$) | NPV Net Benefits (Million \$) | TRC BC Ratio |
|-------------------------------------|------------------------|---------------------------|-------------------------------|--------------|
| Maximum Achievable Potential | | | | |
| Duquesne | \$176.5 | \$346.0 | \$169.5 | 2.0 |
| FE: Met-Ed | \$196.0 | \$376.7 | \$180.7 | 1.9 |
| FE: Penelec | \$194.2 | \$316.0 | \$121.9 | 1.6 |
| FE: Penn Power | \$51.4 | \$83.7 | \$32.3 | 1.6 |
| FE: West Penn | \$282.4 | \$493.9 | \$211.5 | 1.7 |
| PECO | \$474.7 | \$842.5 | \$367.8 | 1.8 |
| PPL | \$524.4 | \$918.5 | \$394.1 | 1.8 |

| | NPV Costs (Million \$) | NPV Benefits (Million \$) | NPV Net Benefits (Million \$) | TRC BC Ratio |
|----------------------------------|------------------------|---------------------------|-------------------------------|--------------|
| Statewide | \$1,899.6 | \$3,377.4 | \$1,477.8 | 1.8 |
| Base Achievable Potential | | | | |
| Duquesne | \$117.6 | \$231.6 | \$114.0 | 2.0 |
| FE: Met-Ed | \$129.2 | \$250.7 | \$121.5 | 1.9 |
| FE: Penelec | \$129.7 | \$212.8 | \$83.1 | 1.6 |
| FE: Penn Power | \$33.8 | \$55.7 | \$21.8 | 1.6 |
| FE: West Penn | \$185.2 | \$327.1 | \$141.8 | 1.8 |
| PECO | \$310.3 | \$559.6 | \$249.3 | 1.8 |
| PPL | \$344.2 | \$609.6 | \$265.4 | 1.8 |
| Statewide | \$1,250.1 | \$2,246.9 | \$996.9 | 1.8 |

Table 3-7 represents the total program expenses paid by the EDCs to realize five-year achievable savings estimates under the maximum and base achievable scenarios. For the residential sector, the per first-year MWh acquisition cost is between \$256/MWh in the maximum achievable scenario assuming 100% incentives for all measures, and \$203/MWh in the base achievable scenario. The estimated EDC acquisition costs include both incentive costs as well as non-incentive costs to include marketing, incentive fulfillment, and EM&V.

Table 3-7: Five-Year Residential Acquisition Costs (TRC) by Achievable Scenario by EDC

| EDC | 2016-2020 Program Costs (\$Million) | 2016-2020 Program Savings (MWh) | Acquisition Costs (\$/1 st -YR MWh Saved) |
|------------------------------------|-------------------------------------|---------------------------------|--|
| Maximum Achievable Scenario | | | |
| Duquesne | \$201.6 | 754,180 | \$267.38 |
| FE: Met-Ed | \$226.0 | 908,437 | \$248.83 |
| FE: Penelec | \$226.0 | 809,744 | \$279.10 |
| FE: Penn Power | \$62.9 | 260,651 | \$241.33 |
| FE: West Penn | \$335.1 | 1,366,665 | \$245.22 |
| PECO | \$548.7 | 2,141,723 | \$256.21 |
| PPL | \$611.5 | 2,394,445 | \$255.38 |
| Statewide | \$2,212.0 | 8,635,846 | \$256.14 |
| Base Achievable Scenario | | | |
| Duquesne | \$104.5 | 494,667 | \$211.20 |
| FE: Met-Ed | \$116.6 | 596,247 | \$195.56 |
| FE: Penelec | \$116.2 | 535,929 | \$216.81 |
| FE: Penn Power | \$33.0 | 171,152 | \$192.63 |
| FE: West Penn | \$174.6 | 893,300 | \$195.51 |
| PECO | \$287.4 | 1,400,064 | \$205.24 |
| PPL | \$314.8 | 1,565,461 | \$201.10 |
| Statewide | \$1,147.1 | 5,656,819 | \$202.77 |

4 Commercial Energy Efficiency Potential

This section of the report presents the commercial sector estimates of electric technical, economic, and achievable potential for the Commonwealth of Pennsylvania as well as for each EDC service area. Program potential is discussed separately in Section 6 of this report. Electric energy efficiency savings, cost estimates, and benefit-cost estimates are presented in this section.

4.1 SUMMARY

Figure 4-1 summarizes electric energy efficiency savings potential for the commercial sector for all seven EDCs combined across the state. The five-year cumulative energy savings potential under the base achievable scenario amount to 1,853,605 MWh and 319.2 MW, representing a possible 3.3% reduction of 2010 load in the commercial sector. Details on each of the four scenarios are discussed in more detail below.

Figure 4-1: Commercial Cumulative Annual Energy (MWh) Savings Potential by Scenario, by Year

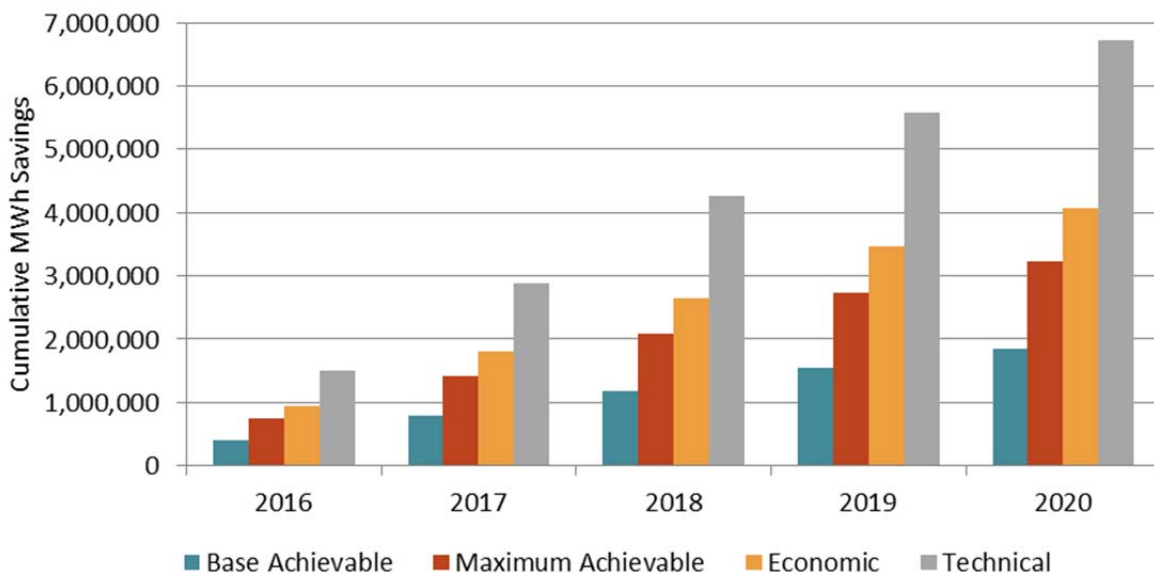


Table 4-1 presents the same estimates for electric energy efficiency savings potential for the commercial sector for all seven EDCs combined across the state by scenario. Details on the findings for each scenario are presented below.

Technical potential, which reflects the adoption of all energy efficient technologies, is a theoretical upper bound on savings. The 5-year cumulative energy efficiency technical potential is 6,716,920 MWh.

Economic Potential, which reflects the savings when all cost-effective measures are implemented, is just over 4,078,690 MWh during the same five-year period.

Maximum Achievable Potential is a subset of economic potential and represents the attainable savings assuming incentive levels are set at 100% of measure incremental costs and the long-term market penetration of high efficiency electric equipment reaches 85% of available stock in any given

year. Maximum achievable potential is 739,695 MWh in 2016. By 2020, the cumulative maximum achievable potential savings is 3,225,158 MWh, representing 5.8% of 2010 statewide commercial sales.

Base Achievable Potential is also a subset of economic potential and represents the SWE Team's best estimate of attainable savings potential assuming comprehensive implementation of all cost-effective measures and no restrictions on budget. The base achievable potential scenario assumes incentive levels are set at 35% of measure incremental costs. Base achievable potential is estimated at 408,759 MWh in 2016. By 2020, the cumulative base achievable potential savings are estimated to be 1,853,605 MWh, representing 3.3% of 2010 statewide commercial sales.

Table 4-1: Commercial Cumulative Annual Energy (MWh) and Demand (MW) Savings Potential by Scenario by Year

| | 2016 | 2017 | 2018 | 2019 | 2020 | 2025 |
|--|-----------|-----------|-----------|-----------|-----------|------------|
| Cumulative Energy Savings Potential - MWh | | | | | | |
| Technical | 1,510,224 | 2,892,043 | 4,258,469 | 5,577,160 | 6,716,920 | 11,489,398 |
| Economic | 940,525 | 1,802,045 | 2,650,569 | 3,467,750 | 4,078,690 | 6,805,055 |
| Maximum Achievable | 739,695 | 1,417,180 | 2,087,834 | 2,737,159 | 3,225,158 | 5,468,715 |
| Base Achievable | 408,759 | 791,076 | 1,173,748 | 1,550,571 | 1,853,605 | 3,205,776 |
| Cumulative Energy Savings Potential - % of 2010 Commercial Load | | | | | | |
| Technical | 2.7% | 5.2% | 7.6% | 10.0% | 12.0% | 20.5% |
| Economic | 1.7% | 3.2% | 4.7% | 6.2% | 7.3% | 12.2% |
| Maximum Achievable | 1.3% | 2.5% | 3.7% | 4.9% | 5.8% | 9.8% |
| Base Achievable | 0.7% | 1.4% | 2.1% | 2.8% | 3.3% | 5.7% |
| Demand Savings Potential - Summer Peak MW | | | | | | |
| Technical | 314.2 | 600.7 | 883.7 | 1,158.2 | 1,388.1 | 2,442.4 |
| Economic | 175.9 | 335.9 | 493.0 | 643.3 | 752.6 | 1,269.4 |
| Maximum Achievable | 138.4 | 264.5 | 389.1 | 509.0 | 596.7 | 1,022.3 |
| Base Achievable | 71.7 | 138.0 | 204.4 | 269.2 | 319.2 | 560.8 |

4.2 COMMERCIAL POTENTIAL BY MARKET SEGMENT

Figure 4-2 shows the five-year cumulative savings potential distribution by commercial building segment under the achievable base scenario. The office segment is the single building type with the largest share of potential savings, representing 18.9% of achievable potential in 2020. Healthcare represents the second largest opportunity for savings at 13.4% of achievable potential. The miscellaneous segment at 19.6% of achievable potential consists of various building types from movie theaters and bowling alleys to mixed-use buildings and service buildings such as gas stations, among many others.

Figure 4-2: 2020 Commercial Energy Savings Distribution by Building Type, Achievable Base

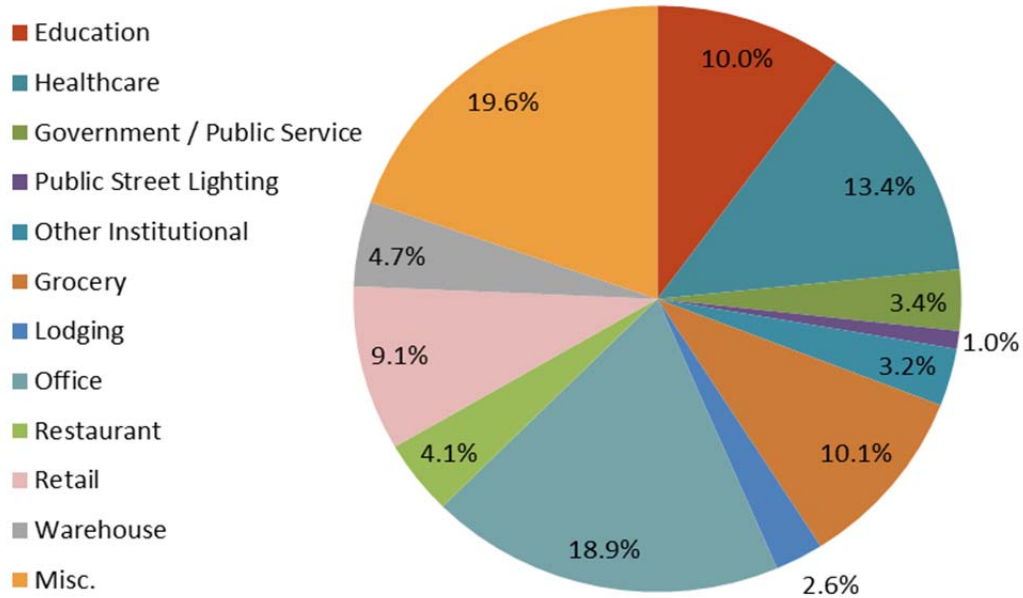


Table 4-2 details the same five-year findings, but summarizes the varying savings potential under each scenario. While the office segment shows the largest magnitude for savings potential at 350,791 MWh, the grocery segment is estimated to have the highest share of potential as a percentage of 2010 load at 5.1% (compared to 3.1% for office). The healthcare segment also shows a high percentage of potential (4.3%) compared to 2010 load, while government/public service has the lowest percentage at 2.2%.

Table 4-2: 2020 Commercial Cumulative Annual Energy (MWh) and Demand (MW) Savings Potential by Scenario by Building Type

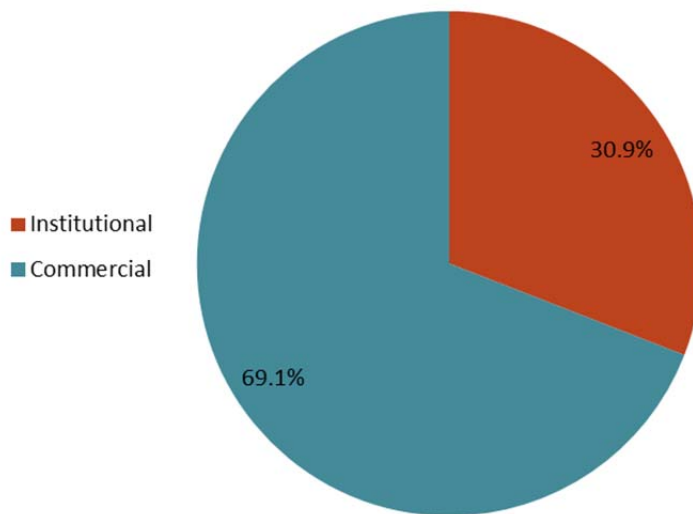
| | Education | Healthcare | Government/ Public Service | Public Street Lighting* | Other Institn'l | Grocery | Lodging | Office | Restaurant | Retail | Warehouse | Misc. |
|--|-----------|------------|-------------------------------|----------------------------|--------------------|---------|---------|-----------|------------|---------|-----------|-----------|
| Cumulative Energy Savings Potential - MWh | | | | | | | | | | | | |
| Technical | 649,480 | 717,552 | 215,797 | 84,181 | 209,160 | 585,057 | 190,644 | 1,385,122 | 291,077 | 589,928 | 370,914 | 1,428,008 |
| Economic | 372,136 | 520,659 | 130,630 | 51,832 | 124,020 | 390,006 | 105,567 | 768,137 | 178,151 | 386,191 | 208,104 | 843,257 |
| Max Achievable | 300,724 | 404,277 | 102,973 | 40,597 | 98,011 | 327,263 | 84,887 | 607,952 | 143,167 | 298,780 | 162,084 | 654,443 |
| Base Achievable | 186,029 | 247,531 | 62,206 | 18,392 | 58,713 | 186,589 | 47,802 | 350,791 | 76,283 | 168,638 | 86,662 | 363,969 |
| Cumulative Energy Savings Potential - % of 2010 Commercial Building Type Load | | | | | | | | | | | | |
| Technical | 9.5% | 12.4% | 7.7% | N/A | 9.3% | 16.0% | 14.8% | 12.4% | 12.6% | 10.6% | 13.8% | 12.4% |
| Economic | 5.4% | 9.0% | 4.7% | N/A | 5.5% | 10.6% | 8.2% | 6.9% | 7.7% | 6.9% | 7.7% | 7.3% |
| Max Achievable | 4.4% | 7.0% | 3.7% | N/A | 4.3% | 8.9% | 6.6% | 5.4% | 6.2% | 5.3% | 6.0% | 5.7% |
| Base Achievable | 2.7% | 4.3% | 2.2% | N/A | 2.6% | 5.1% | 3.7% | 3.1% | 3.3% | 3.0% | 3.2% | 3.2% |
| Demand Savings Potential - Summer Peak MW | | | | | | | | | | | | |
| Technical | 105.3 | 125.4 | 36.0 | 9.6 | 63.2 | 75.1 | 30.1 | 315.9 | 52.7 | 127.1 | 61.8 | 386.0 |
| Economic | 56.3 | 86.6 | 20.3 | 5.9 | 28.5 | 53.7 | 19.1 | 182.0 | 28.6 | 85.7 | 37.5 | 148.4 |
| Max Achievable | 46.4 | 70.6 | 15.9 | 4.6 | 22.3 | 44.9 | 15.8 | 141.5 | 22.6 | 66.9 | 29.4 | 115.6 |
| Base Achievable | 25.7 | 36.2 | 9.0 | 2.1 | 12.5 | 24.0 | 8.7 | 77.8 | 12.0 | 35.2 | 15.2 | 60.9 |
| NOTES: | | | | | | | | | | | | |
| •2010 energy load data not available for Public Street Lighting | | | | | | | | | | | | |

Table 4-3 and Figure 4-3 show the savings potential broken out between segments that reside in the commercial sector and segments that could contribute to the GNI carve-out³⁷. Under the base achievable scenario 1,280,734 MWh (69.1%) of energy savings potential resides in the commercial sector, while 521,871 MWh (30.9%) of energy savings potential is estimated to reside in the GNI sector.

Table 4-3: 2020 Commercial Cumulative Energy (MWh) and Demand (MW) Savings Potential by Scenario by Commercial Sector

| | Institutional | Commercial |
|---|---------------|------------|
| 2020 Cumulative Base Achievable Energy Savings Potential – MWh | | |
| Technical | 1,876,170 | 4,840,750 |
| Economic | 1,199,277 | 2,879,413 |
| Max Achievable | 946,582 | 2,278,576 |
| Base Achievable | 572,871 | 1,280,734 |
| 2020 Cumulative Base Achievable Energy Savings Potential - % of 2010 Commercial Load | | |
| Technical | 10.1% | 12.6% |
| Economic | 6.5% | 7.5% |
| Max Achievable | 5.1% | 6.0% |
| Base Achievable | 3.1% | 3.3% |
| 2020 Demand Savings Potential – Summer Peak PW | | |
| Technical | 339.5 | 1,048.6 |
| Economic | 197.6 | 555.0 |
| Max Achievable | 159.9 | 436.8 |
| Base Achievable | 85.5 | 233.7 |

Figure 4-3: 2020 Commercial Cumulative Annual Energy Savings Distribution by Commercial Sector, Achievable Base Scenario



4.3 COMMERCIAL POTENTIAL BY END USE

Figure 4-4 summarizes the distribution of cumulative five-year savings potential by commercial end use under the base achievable scenario, while Table 4-4 details the estimated savings potential by commercial end use by scenario by year. The lighting end use (including linear fluorescents, high bay

³⁷ While the SWE was able to identify government and institutional buildings in the EDCs customer databases, no reliable data was available to identify nonprofit customers since nonprofits cut across multiple building types. Therefore, the SWE team used education and healthcare buildings as a proxy for nonprofit customers since many of these buildings types are occupied by nonprofits.

lighting, other interior, and exterior lighting) accounts for the largest share of potential savings by end use with 744,277 MWh by 2020, representing 40.0% of achievable potential in 2020 – despite higher baseline conditions with T8 linear fluorescent lamps in place of T12s. The SWE Team found the next largest share of energy savings potential in the refrigeration end use (18.2%), followed by HVAC (space cooling, space heating, and heat pumps) and plug loads.

Figure 4-4: 2020 Commercial Cumulative Annual Energy Savings Distribution by End Use, Achievable Base Scenario

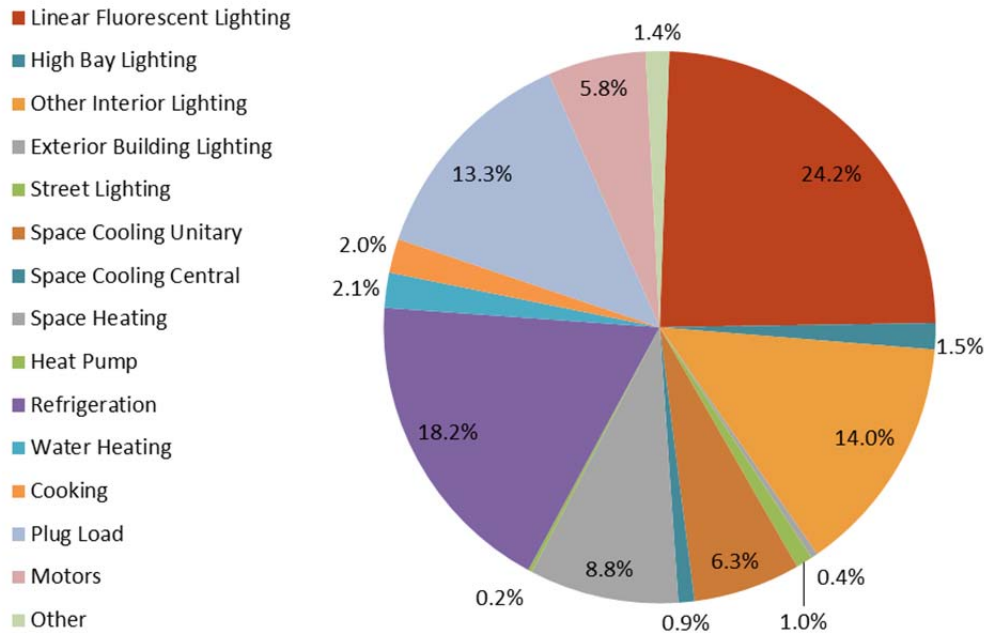


Table 4-4: Commercial Cumulative Energy (MWh) Savings Potential by Scenario by End Use by Year

| | 2016 | 2017 | 2018 | 2019 | 2020 | 2025 |
|-------------------------------|---------------------------------|-----------|-----------|-----------|-----------|-----------|
| Lighting | | | | | | |
| | Cumulative Energy Savings (MWh) | | | | | |
| Technical | 558,732 | 1,061,636 | 1,543,960 | 1,986,900 | 2,268,053 | 3,585,800 |
| Economic | 442,283 | 841,787 | 1,226,004 | 1,576,533 | 1,782,231 | 2,742,461 |
| Max Achievable | 334,127 | 635,359 | 926,156 | 1,192,024 | 1,341,644 | 2,079,174 |
| Base Achievable | 176,484 | 339,880 | 499,758 | 649,690 | 744,277 | 1,180,329 |
| Public Street Lighting | | | | | | |
| Technical | 18,056 | 34,564 | 51,087 | 67,628 | 84,181 | 167,241 |
| Economic | 11,118 | 21,282 | 31,456 | 41,641 | 51,832 | 102,973 |
| Max Achievable | 8,587 | 16,492 | 24,463 | 32,498 | 40,597 | 82,185 |
| Base Achievable | 3,806 | 7,349 | 10,959 | 14,640 | 18,392 | 38,348 |
| HVAC | | | | | | |
| Technical | 421,921 | 808,009 | 1,195,059 | 1,583,032 | 1,971,399 | 3,500,683 |
| Economic | 160,865 | 308,693 | 456,004 | 602,788 | 748,952 | 1,407,795 |
| Max Achievable | 120,073 | 230,702 | 341,609 | 452,752 | 564,095 | 1,091,679 |
| Base Achievable | 62,315 | 120,811 | 179,936 | 239,730 | 300,164 | 573,979 |
| Refrigeration | | | | | | |
| Technical | 206,288 | 398,768 | 591,748 | 771,636 | 948,825 | 1,823,358 |
| Economic | 147,695 | 284,038 | 420,623 | 557,447 | 692,933 | 1,373,916 |

| | 2016 | 2017 | 2018 | 2019 | 2020 | 2025 |
|------------------------|------------------|------------------|------------------|------------------|------------------|-------------------|
| Max Achievable | 124,555 | 239,570 | 355,256 | 471,589 | 587,769 | 1,178,799 |
| Base Achievable | 69,998 | 135,697 | 202,422 | 270,226 | 337,937 | 692,321 |
| Water Heating | | | | | | |
| Technical | 21,122 | 40,985 | 60,842 | 80,699 | 100,191 | 196,746 |
| Economic | 15,577 | 30,451 | 45,353 | 60,276 | 74,790 | 147,219 |
| Max Achievable | 9,717 | 18,941 | 28,202 | 37,493 | 46,574 | 92,236 |
| Base Achievable | 7,831 | 15,405 | 23,022 | 30,680 | 38,096 | 75,633 |
| Cooking | | | | | | |
| Technical | 31,743 | 60,449 | 88,843 | 116,932 | 144,701 | 279,196 |
| Economic | 19,867 | 37,846 | 55,630 | 73,225 | 90,622 | 174,902 |
| Max Achievable | 16,010 | 30,571 | 45,059 | 59,471 | 73,805 | 144,512 |
| Base Achievable | 7,799 | 14,986 | 22,217 | 29,499 | 36,828 | 74,336 |
| Plug Load | | | | | | |
| Technical | 174,558 | 338,589 | 506,467 | 678,264 | 835,736 | 1,210,598 |
| Economic | 116,009 | 225,816 | 338,089 | 452,891 | 508,584 | 593,904 |
| Max Achievable | 95,189 | 185,273 | 277,866 | 373,029 | 423,176 | 504,539 |
| Base Achievable | 52,692 | 103,439 | 156,002 | 210,489 | 245,864 | 302,541 |
| Motors | | | | | | |
| Technical | 62,515 | 119,492 | 176,348 | 233,082 | 289,666 | 570,714 |
| Economic | 12,485 | 23,862 | 35,207 | 46,518 | 57,791 | 113,537 |
| Max Achievable | 20,125 | 38,332 | 56,351 | 74,189 | 91,827 | 176,875 |
| Base Achievable | 22,818 | 43,729 | 64,701 | 85,733 | 106,807 | 212,768 |
| Other | | | | | | |
| Technical | 15,288 | 29,550 | 44,114 | 58,987 | 74,167 | 155,062 |
| Economic | 14,626 | 28,270 | 42,203 | 56,432 | 70,955 | 148,350 |
| Max Achievable | 11,313 | 21,940 | 32,872 | 44,114 | 55,671 | 118,715 |
| Base Achievable | 5,016 | 9,779 | 14,732 | 19,884 | 25,240 | 55,521 |
| Total | | | | | | |
| Technical | 1,510,224 | 2,892,043 | 4,258,469 | 5,577,160 | 6,716,920 | 11,489,398 |
| Economic | 940,525 | 1,802,045 | 2,650,569 | 3,467,750 | 4,078,690 | 6,805,055 |
| Max Achievable | 739,695 | 1,417,180 | 2,087,834 | 2,737,159 | 3,225,158 | 5,468,715 |
| Base Achievable | 408,759 | 791,076 | 1,173,748 | 1,550,571 | 1,853,605 | 3,205,776 |

4.4 COMMERCIAL POTENTIAL BY EDC

This section details the commercial energy efficiency savings potential for each of the seven EDCs included in this assessment. Table 4-5 summarizes the SWE Team's findings. The SWE Team estimates the available energy savings potential to be roughly equal between EDCs when compared on a percentage of 2010 load basis, though some variance can be noted. PPL and Penn Power showed the largest share of five-year cumulative energy savings potential under the base achievable scenario at 3.9% and 3.7% of their 2010 load, respectively. Met-Ed and PECO showed the smallest share of five-year cumulative energy savings potential under the base achievable scenario at 2.8% of its 2010 load. The five-year cumulative energy savings potential for all seven EDCs combined is estimated at 1,853,605 MWh under the base achievable scenario, representing 3.3% of 2010 commercial sector load.

Table 4-5: Commercial Cumulative Energy (MWh) Savings Potential by EDC, by Scenario, by Year

| | 2016 | 2017 | 2018 | 2019 | 2020 | 2025 |
|---------------------------------------|------------------|------------------|------------------|------------------|------------------|-------------------|
| Duquesne | | | | | | |
| Technical | 170,897 | 325,840 | 479,151 | 626,195 | 744,495 | 1,273,533 |
| Economic | 151,638 | 293,327 | 433,667 | 568,265 | 667,353 | 1,106,680 |
| Maximum Achievable | 112,038 | 216,096 | 319,498 | 418,853 | 490,415 | 828,379 |
| Base Achievable | 55,240 | 107,035 | 158,997 | 209,593 | 247,483 | 431,631 |
| Base Achievable % of 2010 Load | 0.8% | 1.5% | 2.2% | 3.0% | 3.5% | 6.1% |
| FE: Met-Ed | | | | | | |
| Technical | 71,040 | 135,662 | 199,666 | 262,585 | 319,909 | 577,012 |
| Economic | 50,016 | 95,462 | 140,413 | 184,414 | 220,530 | 384,544 |
| Maximum Achievable | 41,068 | 78,612 | 115,982 | 152,817 | 183,616 | 324,752 |
| Base Achievable | 24,897 | 48,348 | 71,937 | 95,497 | 116,363 | 206,643 |
| Base Achievable % of 2010 Load | 0.6% | 1.2% | 1.7% | 2.3% | 2.8% | 5.0% |
| FE: Penelec | | | | | | |
| Technical | 93,973 | 178,546 | 260,902 | 339,128 | 401,377 | 681,676 |
| Economic | 66,182 | 125,723 | 183,766 | 238,590 | 276,440 | 452,923 |
| Maximum Achievable | 54,511 | 103,860 | 152,300 | 198,476 | 231,256 | 384,666 |
| Base Achievable | 32,093 | 62,026 | 91,819 | 120,844 | 143,630 | 242,786 |
| Base Achievable % of 2010 Load | 0.8% | 1.5% | 2.2% | 2.8% | 3.4% | 5.7% |
| FE: Penn Power | | | | | | |
| Technical | 32,115 | 60,962 | 89,237 | 116,499 | 138,983 | 239,590 |
| Economic | 20,072 | 38,017 | 55,497 | 72,102 | 83,023 | 137,730 |
| Maximum Achievable | 16,334 | 31,027 | 45,434 | 59,232 | 68,567 | 116,153 |
| Base Achievable | 9,628 | 18,570 | 27,455 | 36,136 | 42,742 | 73,860 |
| Base Achievable % of 2010 Load | 0.8% | 1.6% | 2.4% | 3.1% | 3.7% | 6.4% |
| FE: West Penn | | | | | | |
| Technical | 118,036 | 225,088 | 330,694 | 433,734 | 525,821 | 948,477 |
| Economic | 83,792 | 159,708 | 234,490 | 307,003 | 366,053 | 637,277 |
| Maximum Achievable | 69,056 | 132,003 | 194,411 | 255,391 | 305,966 | 541,100 |
| Base Achievable | 41,080 | 79,623 | 118,289 | 156,682 | 190,375 | 339,689 |
| Base Achievable % of 2010 Load | 0.7% | 1.4% | 2.1% | 2.8% | 3.4% | 6.1% |
| PECO | | | | | | |
| Technical | 389,113 | 739,107 | 1,082,662 | 1,413,997 | 1,684,222 | 2,898,265 |
| Economic | 276,500 | 524,621 | 767,474 | 999,005 | 1,157,512 | 1,895,996 |
| Maximum Achievable | 227,757 | 433,432 | 636,102 | 831,053 | 968,751 | 1,612,004 |
| Base Achievable | 136,609 | 263,903 | 391,001 | 515,847 | 614,385 | 1,042,064 |
| Base Achievable % of 2010 Load | 0.7% | 1.3% | 1.9% | 2.5% | 2.9% | 5.0% |
| PPL | | | | | | |
| Technical | 635,048 | 1,226,837 | 1,816,157 | 2,385,022 | 2,902,111 | 4,870,844 |
| Economic | 292,324 | 565,185 | 835,263 | 1,098,372 | 1,307,778 | 2,189,905 |
| Maximum Achievable | 218,932 | 422,151 | 624,107 | 821,337 | 976,586 | 1,661,662 |
| Base Achievable | 109,212 | 211,571 | 314,249 | 415,972 | 498,626 | 869,104 |
| Base Achievable % of 2010 Load | 0.9% | 1.6% | 2.4% | 3.2% | 3.9% | 6.8% |
| Statewide Total | | | | | | |
| Technical | 1,510,224 | 2,892,043 | 4,258,469 | 5,577,160 | 6,716,920 | 11,489,398 |
| Economic | 940,525 | 1,802,045 | 2,650,569 | 3,467,750 | 4,078,690 | 6,805,055 |
| Maximum Achievable | 739,695 | 1,417,180 | 2,087,834 | 2,737,159 | 3,225,158 | 5,468,715 |
| Base Achievable | 408,759 | 791,076 | 1,173,748 | 1,550,571 | 1,853,605 | 3,205,776 |

| | 2016 | 2017 | 2018 | 2019 | 2020 | 2025 |
|---------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Base Achievable % of 2010 Load | 0.7% | 1.4% | 2.1% | 2.8% | 3.3% | 5.7% |

4.5 COMMERCIAL BENEFITS AND COSTS

Table 4-6 provides the economic impacts by EDC for the commercial base achievable and maximum achievable scenarios. Overall, the SWE Team found there to be a significant amount of cost-effective energy efficiency savings potential still attainable in Pennsylvania between 2016 and 2020. The SWE Team estimates that the NPV of the cost to attain all energy efficiency savings under the base achievable scenario at \$623.6 million from 2016 to 2020, while the benefits amount to almost \$1.4 billion during the same time period resulting in \$770 million in net benefits and a TRC ratio of 2.2.

Table 4-6: 2020 Commercial TRC Benefit-Cost Ratios by Achievable Scenario by EDC

| | NPV Costs (Million \$) | NPV Benefits (Million \$) | NPV Net Benefits (Million \$) | TRC BC Ratio |
|-------------------------------------|---------------------------|------------------------------|----------------------------------|--------------|
| Maximum Achievable Potential | | | | |
| Duquesne | \$131.5 | \$295.6 | \$164.0 | 2.2 |
| FE: Met-Ed | \$47.5 | \$107.9 | \$60.4 | 2.3 |
| FE: Penelec | \$60.3 | \$133.0 | \$72.7 | 2.2 |
| FE: Penn Power | \$16.4 | \$32.8 | \$16.3 | 2.0 |
| FE: West Penn | \$77.1 | \$160.2 | \$83.2 | 2.1 |
| PECO | \$254.1 | \$582.3 | \$328.1 | 2.3 |
| PPL | \$251.7 | \$494.1 | \$242.4 | 2.0 |
| Statewide | \$838.6 | \$1,805.9 | \$967.3 | 2.2 |
| Base Achievable Potential | | | | |
| Duquesne | \$86.3 | \$207.3 | \$121.1 | 2.4 |
| FE: Met-Ed | \$39.3 | \$90.2 | \$50.9 | 2.3 |
| FE: Penelec | \$47.8 | \$106.9 | \$59.0 | 2.2 |
| FE: Penn Power | \$13.1 | \$26.9 | \$13.8 | 2.1 |
| FE: West Penn | \$61.5 | \$131.8 | \$70.3 | 2.1 |
| PECO | \$209.6 | \$480.0 | \$270.5 | 2.3 |
| PPL | \$166.1 | \$350.5 | \$184.4 | 2.1 |
| Statewide | \$623.6 | \$1,393.6 | \$770.0 | 2.2 |

Table 4-7 summarizes the total estimated program expenses³⁸ that would be paid by the EDCs to realize the five-year cumulative energy savings estimates under the base achievable and maximum achievable scenarios. For the commercial sector, the per-MWh acquisition cost is between \$139/MWh and \$150/MWh among the EDCs under the base achievable scenario. The total estimated five-year programmatic costs for all seven EDCs is estimated at \$280.7 million to achieve the 1,910,733 MWh of commercial sector savings under the base achievable scenario, resulting in a statewide average acquisition cost of \$147/MWh.

³⁸ Program costs include administrative costs and incentive costs incurred by EDCs to obtain the sum of the five-year annual incremental savings.

Table 4-7: Five-Year Commercial Acquisition Costs (TRC) by Achievable Scenario by EDC

| EDC | 2016-2020 Program Costs (\$Million) | 2016-2020 Program Savings (MWh) | Acquisition Costs (\$/1 st -YR MWh Saved) |
|------------------------------------|--|------------------------------------|---|
| Maximum Achievable Scenario | | | |
| Duquesne | \$141.1 | 511,658 | \$275.8 |
| FE: Met-Ed | \$50.6 | 188,615 | \$268.4 |
| FE: Penelec | \$64.7 | 241,692 | \$267.6 |
| FE: Penn Power | \$17.6 | 71,938 | \$244.9 |
| FE: West Penn | \$82.3 | 314,758 | \$261.4 |
| PECO | \$272.6 | 1,011,799 | \$269.4 |
| PPL | \$269.2 | 1,010,479 | \$266.4 |
| Statewide | \$898.1 | 3,350,940 | \$268.0 |
| Base Achievable Scenario | | | |
| Duquesne | \$38.5 | 256,958 | \$149.7 |
| FE: Met-Ed | \$17.5 | 118,692 | \$147.4 |
| FE: Penelec | \$21.7 | 148,405 | \$146.2 |
| FE: Penn Power | \$6.1 | 44,288 | \$138.8 |
| FE: West Penn | \$27.9 | 194,475 | \$143.5 |
| PECO | \$94.1 | 634,108 | \$148.3 |
| PPL | \$74.9 | 513,806 | \$145.8 |
| Statewide | \$280.7 | 1,910,733 | \$146.9 |

5 Industrial Energy Efficiency Potential

This section of the report presents the industrial sector estimates of electric technical, economic, and achievable potential for the Commonwealth of Pennsylvania, as well as for each EDC service area. Program potential is discussed separately in Section 6 of this report. Electric energy efficiency savings, cost estimates, and benefit-cost estimates are presented in this section.

5.1 SUMMARY

Figure 5-1 summarizes electric energy efficiency savings potential for the industrial sector for all seven EDCs combined across the state. The five-year cumulative energy savings potential under the base achievable scenario amount to 1,173,082 MWh and 151.4 MW, representing a possible 3.2% reduction of 2010 load in the industrial sector. Details on each of the four scenarios are discussed in more detail below.

Figure 5-1: Industrial Energy (MWh) and Demand (MW) Savings Potential by Scenario by Year

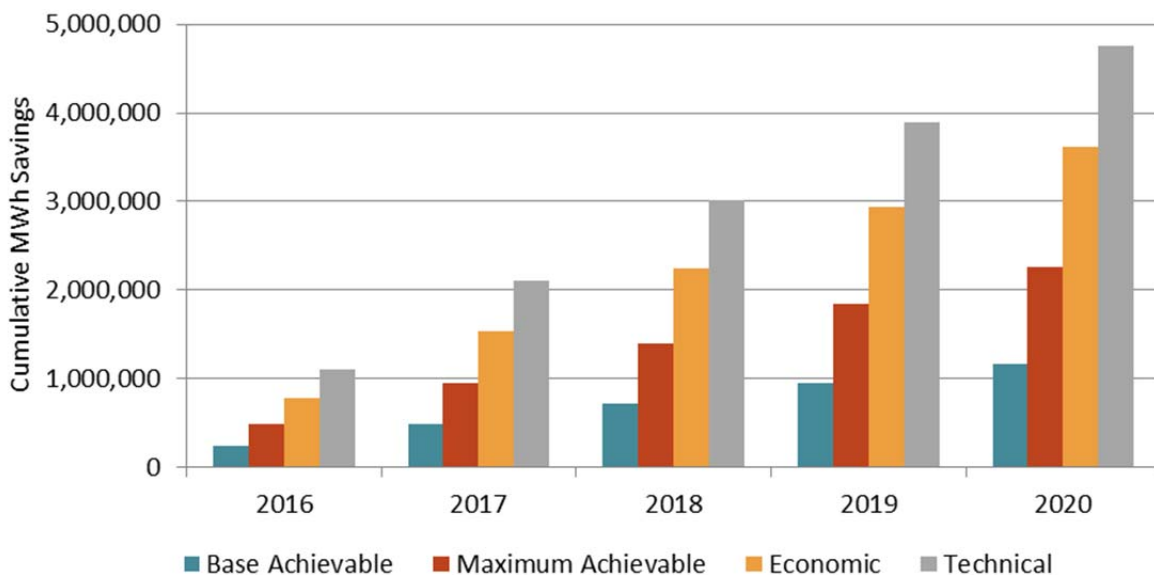


Table 5-1 presents the same estimates for electric energy efficiency savings potential for the commercial sector for all seven EDCs combined across the state by scenario. Details on the findings for each scenario are presented below.

Technical potential, which reflects the adoption of all energy efficient technologies, is a theoretical upper bound on savings. The five-year technical potential is 4,762,249 MWh (708.3 MW).

Economic Potential, which reflects the savings when all cost-effective measures are implemented, is 3,613,522 MWh during that same five-year period.

Maximum Achievable Potential is a subset of economic potential and represents the attainable savings assuming incentive levels are set at 100% of measure incremental costs and the long-term market penetration of high efficiency electric equipment reaches 85% of available stock in any given

year. Maximum achievable potential is 483,986 MWh in 2016. By 2020, the cumulative maximum achievable potential savings is 2,262,661 MWh, representing 6.2% of 2010 statewide industrial sales.

Base Achievable Potential is also a subset of economic potential and represents the SWE team's best estimate of attainable savings potential assuming comprehensive implementation of all cost-effective measures and no restrictions on budget. The base achievable potential scenario assumes incentive levels are set at 35% of measure incremental costs. Base achievable potential is estimated at 248,169 MWh in 2016. By 2020, the cumulative base achievable potential savings are estimated to be 1,173,082 MWh, representing 3.2% of 2010 statewide industrial sales.

Table 5-1: Industrial Cumulative Annual Energy (MWh) and Demand (MW) Savings Potential by Scenario by Year

| | 2016 | 2017 | 2018 | 2019 | 2020 | 2025 |
|--|-----------|-----------|-----------|-----------|-----------|-----------|
| Cumulative Energy Savings Potential - MWh | | | | | | |
| Technical | 1,098,216 | 2,111,876 | 3,012,499 | 3,899,434 | 4,762,249 | 8,965,507 |
| Economic | 775,959 | 1,528,644 | 2,239,016 | 2,936,690 | 3,613,522 | 6,996,830 |
| Maximum Achievable | 483,986 | 950,293 | 1,396,380 | 1,837,463 | 2,262,661 | 4,401,700 |
| Base Achievable | 248,169 | 488,254 | 719,423 | 949,338 | 1,173,082 | 2,319,030 |
| Cumulative Energy Savings Potential - % of 2010 Industrial Load | | | | | | |
| Technical | 3.0% | 5.8% | 8.3% | 10.7% | 13.0% | 24.6% |
| Economic | 2.1% | 4.2% | 6.1% | 8.0% | 9.9% | 19.2% |
| Maximum Achievable | 1.3% | 2.6% | 3.8% | 5.0% | 6.2% | 12.1% |
| Base Achievable | 0.7% | 1.3% | 2.0% | 2.6% | 3.2% | 6.4% |
| Demand Savings Potential – Summer Peak MW | | | | | | |
| Technical | 170.2 | 317.1 | 448.8 | 578.2 | 708.3 | 1,353.6 |
| Economic | 106.1 | 209.7 | 307.5 | 403.1 | 499.3 | 982.3 |
| Maximum Achievable | 62.7 | 123.6 | 181.7 | 238.8 | 296.4 | 588.0 |
| Base Achievable | 31.8 | 62.7 | 92.4 | 121.7 | 151.4 | 303.8 |

5.2 INDUSTRIAL POTENTIAL BY MARKET SEGMENT

Figure 5-2 shows the five-year cumulative savings potential distribution by industrial building segment under the achievable base scenario. The Manufacturing (Mfg): Other segment accounts for the largest share of potential savings, representing 33.2% of achievable potential in 2020. This segment includes the manufacturing of automobiles, aircraft, furniture, and other miscellaneous materials. Mfg: Metals represents the second largest opportunity for savings at 15.2% of achievable potential.

Figure 5-2: 2020 Industrial Base Achievable Cumulative Annual Energy Savings Distribution by Industry Type

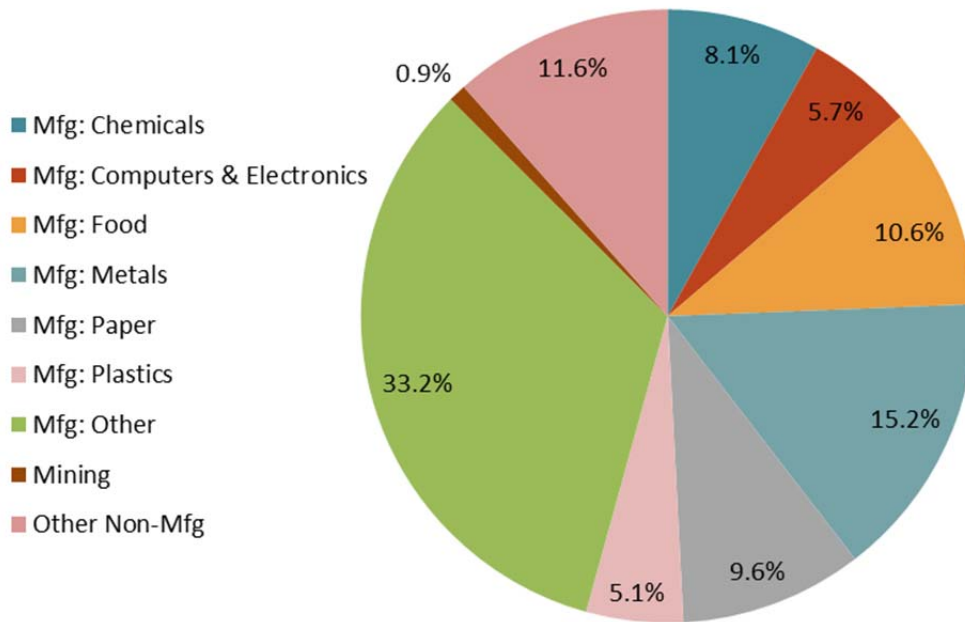


Table 5-2 details the same five-year findings, but summarizes the varying savings potential under each scenario. Mfg: Other has the largest magnitude for savings potential at 389,529 MWh, and also has the highest share of potential as a percentage of 2010 load at 19.1%. The Mfg: Other segment is comprised of several, smaller miscellaneous manufacturing industry types in Pennsylvania. Some of the industries types included in this bundled industrial segment include apparel, machinery, textile, transportation equipment, printing, furniture and stone/clay/concrete manufacturing facilities, to name a few. Mfg: Food has the next highest share of potential as a percentage of 2010 load at 4.0%.

Table 5-2: Industrial Cumulative Energy (MWh) & Demand (MW) Savings Potential by Scenario, by Industry Type

| Energy (MWh) | Manufacturing | | | | | | | Mining | Other Non-Mfg. |
|--|---------------|-------------------------|---------|---------|---------|----------|-----------|--------|----------------|
| | Chemicals | Computers & Electronics | Food | Metals | Paper | Plastics | Other | | |
| Cumulative Energy Savings Potential - MWh | | | | | | | | | |
| Technical | 337,073 | 366,393 | 468,556 | 768,882 | 353,486 | 228,392 | 1,557,455 | 54,373 | 627,638 |
| Economic | 275,774 | 230,860 | 380,263 | 581,861 | 294,591 | 180,638 | 1,200,707 | 25,953 | 442,874 |
| Base Achievable | 182,175 | 131,808 | 239,770 | 348,237 | 203,352 | 116,363 | 759,065 | 17,752 | 264,139 |
| Max Achievable | 94,836 | 66,525 | 124,687 | 177,796 | 113,084 | 59,928 | 389,529 | 10,986 | 135,712 |
| Cumulative Energy Savings Potential - % of 2010 Industrial Load | | | | | | | | | |
| Technical | 8.9% | 18.1% | 15.1% | 10.1% | 3.7% | 9.8% | 76.5% | 2.7% | 15% |
| Economic | 7.2% | 11.4% | 12.2% | 7.6% | 3.1% | 7.8% | 59.0% | 1.3% | 11% |
| Base Achievable | 4.8% | 6.5% | 7.7% | 4.6% | 2.1% | 5.0% | 37.3% | 0.9% | 6% |
| Max Achievable | 2.5% | 3.3% | 4.0% | 2.3% | 1.2% | 2.6% | 19.1% | 0.5% | 3% |
| Demand Savings Potential – Summer Peak MW | | | | | | | | | |
| Technical | 49.5 | 61.1 | 73.5 | 107.3 | 46.1 | 33.4 | 230.2 | 9.6 | 97.7 |
| Economic | 38.5 | 34.2 | 58.3 | 78.8 | 37.2 | 25.1 | 161.1 | 4.6 | 61.5 |
| Base Achievable | 24.7 | 18.5 | 35.4 | 45.3 | 25.2 | 15.4 | 95.2 | 2.6 | 34.1 |
| Max Achievable | 12.7 | 9.2 | 18.1 | 22.8 | 13.9 | 7.8 | 48.1 | 1.6 | 17.2 |

5.3 INDUSTRIAL POTENTIAL BY END USE

Figure 5-3 summarizes the distribution of cumulative five-year savings potential by industrial end use under the base achievable scenario, while Table 5-3 details the estimated savings potential by industry end use by scenario by year. The Motors end use accounts for the largest share of the potential savings by end use with 449,568 MWh by 2020, representing 38.3% of achievable potential in 2020. The SWE Team found the next largest share of energy savings potential in the HVAC end use (19.5%), followed by Process (18.7%).

Figure 5-3: Industrial 2020 Cumulative Annual Base Achievable Energy (MWh) Savings Potential by End Use

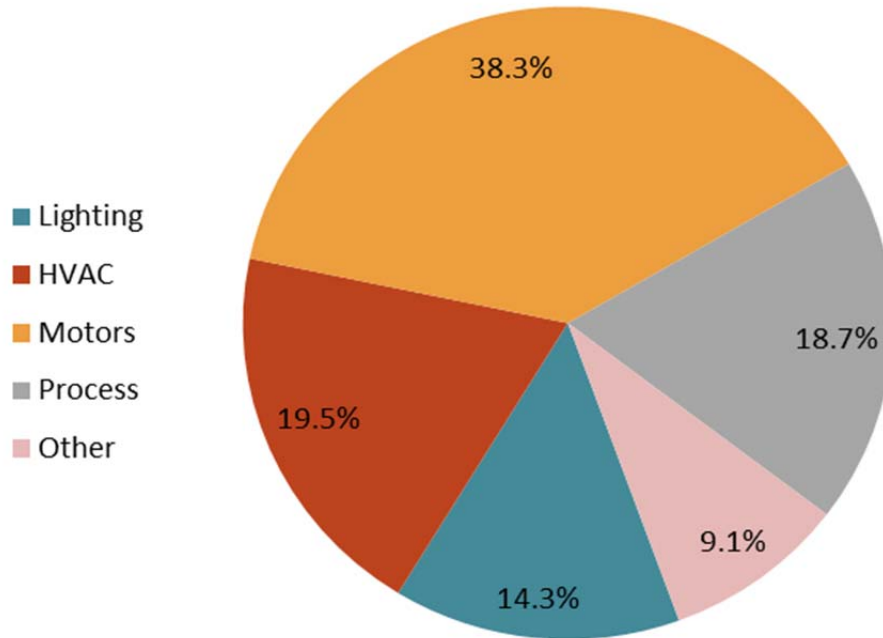


Table 5-3: 2020 Industrial Cumulative Annual Energy (MWh) Savings Potential by Scenario, by End Use

| Energy (MWh) | 2016 | 2017 | 2018 | 2019 | 2020 | 2025 |
|-----------------|---------|---------|---------|-----------|-----------|-----------|
| Lighting | | | | | | |
| Technical | 125,581 | 242,751 | 360,056 | 477,563 | 569,649 | 940,393 |
| Economic | 83,592 | 160,751 | 237,984 | 315,342 | 370,206 | 627,436 |
| Max Achievable | 69,580 | 134,130 | 199,070 | 264,442 | 312,068 | 539,777 |
| Base Achievable | 36,390 | 70,508 | 105,195 | 140,480 | 167,758 | 304,184 |
| HVAC | | | | | | |
| Technical | 329,540 | 600,042 | 871,961 | 1,144,590 | 1,417,165 | 2,743,267 |
| Economic | 177,395 | 351,529 | 526,014 | 700,938 | 876,272 | 1,754,229 |
| Max Achievable | 92,712 | 183,560 | 274,624 | 365,951 | 457,523 | 915,595 |
| Base Achievable | 46,334 | 91,792 | 137,403 | 183,191 | 229,149 | 460,004 |
| Motors | | | | | | |
| Technical | 295,021 | 577,468 | 828,559 | 1,080,137 | 1,332,462 | 2,601,470 |
| Economic | 262,773 | 515,161 | 736,940 | 959,148 | 1,182,056 | 2,303,692 |
| Max Achievable | 182,792 | 357,142 | 516,627 | 677,117 | 838,726 | 1,662,588 |
| Base Achievable | 96,440 | 188,918 | 274,597 | 361,457 | 449,568 | 909,656 |
| Process | | | | | | |
| Technical | 260,951 | 520,313 | 698,924 | 862,083 | 1,025,611 | 1,849,168 |

| Energy (MWh) | 2016 | 2017 | 2018 | 2019 | 2020 | 2025 |
|------------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Economic | 165,630 | 330,977 | 486,493 | 627,959 | 769,729 | 1,484,115 |
| Max Achievable | 94,814 | 188,779 | 277,988 | 360,307 | 442,998 | 862,685 |
| Base Achievable | 46,713 | 93,207 | 137,477 | 178,437 | 219,747 | 432,219 |
| Other | | | | | | |
| Technical | 87,124 | 171,302 | 252,998 | 335,061 | 417,363 | 831,208 |
| Economic | 86,569 | 170,226 | 251,586 | 333,303 | 415,260 | 827,357 |
| Max Achievable | 44,087 | 86,682 | 128,071 | 169,646 | 211,345 | 421,055 |
| Base Achievable | 22,292 | 43,828 | 64,752 | 85,773 | 106,861 | 212,967 |
| Total | | | | | | |
| Technical | 1,098,216 | 2,111,876 | 3,012,499 | 3,899,434 | 4,762,249 | 8,965,507 |
| Economic | 775,959 | 1,528,644 | 2,239,016 | 2,936,690 | 3,613,522 | 6,996,830 |
| Max Achievable | 483,986 | 950,293 | 1,396,380 | 1,837,463 | 2,262,661 | 4,401,700 |
| Base Achievable | 248,169 | 488,254 | 719,423 | 949,338 | 1,173,082 | 2,319,030 |

5.4 INDUSTRIAL POTENTIAL BY EDC

This section details the industrial energy efficiency savings potential for each of the seven EDCs included in this study. Table 5-4 summarizes the SWE Team's findings. The SWE Team estimates the available energy savings potential to be roughly equal between EDCs when compared on a percentage of 2010 load basis, though some variance can be noted. PECO shows the largest share of five-year cumulative energy savings potential under the base achievable scenario at 5.5% of its 2010 load. Penn Power showed the smallest share of five-year cumulative energy savings potential under the base achievable scenario at 2.3% of its 2010 load. The five-year cumulative energy savings potential for all seven EDCs combined is estimated at 1,173,082 MWh under the base achievable scenario, representing 3.2% of 2010 industrial sector load.

Table 5-4: Industrial Cumulative Annual Energy (MWh) Savings Potential by EDC, by Scenario, by Year

| | 2016 | 2017 | 2018 | 2019 | 2020 | 2025 |
|---------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Duquesne | | | | | | |
| Technical | 82,907 | 157,522 | 226,768 | 295,878 | 362,665 | 685,654 |
| Economic | 56,056 | 109,857 | 162,863 | 215,733 | 267,287 | 526,232 |
| Maximum Achievable | 35,190 | 68,768 | 102,042 | 135,354 | 167,688 | 331,388 |
| Base Achievable | 17,886 | 35,037 | 52,129 | 69,335 | 86,194 | 173,065 |
| Base Achievable % of 2010 Load | 0.6% | 1.2% | 1.9% | 2.5% | 3.1% | 6.1% |
| FE: Met-Ed | | | | | | |
| Technical | 143,489 | 275,562 | 396,300 | 514,591 | 629,604 | 1,182,422 |
| Economic | 99,653 | 196,410 | 290,163 | 381,543 | 469,714 | 904,257 |
| Maximum Achievable | 62,298 | 122,412 | 181,186 | 238,959 | 294,277 | 568,536 |
| Base Achievable | 31,653 | 62,339 | 92,515 | 122,353 | 151,196 | 296,845 |
| Base Achievable % of 2010 Load | 0.7% | 1.4% | 2.0% | 2.7% | 3.3% | 6.5% |
| FE: Penelec | | | | | | |
| Technical | 155,790 | 299,617 | 429,147 | 557,064 | 681,467 | 1,284,260 |
| Economic | 112,491 | 221,252 | 326,204 | 429,790 | 529,875 | 1,026,226 |
| Maximum Achievable | 70,124 | 137,493 | 203,095 | 268,176 | 330,581 | 641,814 |
| Base Achievable | 36,265 | 71,226 | 105,464 | 139,606 | 172,651 | 340,146 |
| Base Achievable % of 2010 Load | 0.7% | 1.4% | 2.0% | 2.7% | 3.3% | 6.5% |
| FE: Penn Power | | | | | | |
| Technical | 42,920 | 82,724 | 116,300 | 149,434 | 181,558 | 337,320 |
| Economic | 28,751 | 56,558 | 83,326 | 109,750 | 135,573 | 264,763 |

| | 2016 | 2017 | 2018 | 2019 | 2020 | 2025 |
|---------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Maximum Achievable | 17,264 | 33,842 | 49,926 | 65,869 | 81,366 | 159,334 |
| Base Achievable | 8,666 | 17,025 | 25,176 | 33,295 | 41,250 | 81,921 |
| Base Achievable % of 2010 Load | 0.5% | 1.0% | 1.4% | 1.9% | 2.3% | 4.6% |
| FE: West Penn | | | | | | |
| Technical | 184,221 | 355,954 | 505,543 | 653,793 | 797,965 | 1,501,337 |
| Economic | 123,596 | 244,228 | 360,729 | 476,449 | 589,777 | 1,159,463 |
| Maximum Achievable | 75,582 | 148,828 | 220,157 | 291,258 | 360,588 | 711,362 |
| Base Achievable | 38,947 | 76,813 | 113,894 | 151,038 | 187,555 | 375,173 |
| Base Achievable % of 2010 Load | 0.5% | 1.0% | 1.5% | 2.0% | 2.5% | 5.0% |
| PECO | | | | | | |
| Technical | 231,117 | 443,637 | 623,732 | 800,934 | 973,139 | 1,808,703 |
| Economic | 169,583 | 334,037 | 475,097 | 613,333 | 746,745 | 1,409,530 |
| Maximum Achievable | 105,156 | 206,425 | 295,981 | 384,378 | 469,087 | 892,553 |
| Base Achievable | 53,961 | 106,129 | 152,675 | 198,899 | 243,643 | 471,571 |
| Base Achievable % of 2010 Load | 1.2% | 2.4% | 3.5% | 4.5% | 5.5% | 10.7% |
| PPL | | | | | | |
| Technical | 257,773 | 496,861 | 714,708 | 927,741 | 1,135,852 | 2,165,810 |
| Economic | 185,830 | 366,303 | 540,634 | 710,092 | 874,551 | 1,706,359 |
| Maximum Achievable | 118,373 | 232,525 | 343,993 | 453,468 | 559,074 | 1,096,711 |
| Base Achievable | 60,790 | 119,684 | 177,572 | 234,811 | 290,593 | 580,309 |
| Base Achievable % of 2010 Load | 0.6% | 1.2% | 1.7% | 2.3% | 2.8% | 5.7% |
| Statewide Total | | | | | | |
| Technical | 1,098,216 | 2,111,876 | 3,012,499 | 3,899,434 | 4,762,249 | 8,965,507 |
| Economic | 775,959 | 1,528,644 | 2,239,016 | 2,936,690 | 3,613,522 | 6,996,830 |
| Maximum Achievable | 483,986 | 950,293 | 1,396,380 | 1,837,463 | 2,262,661 | 4,401,700 |
| Base Achievable | 248,169 | 488,254 | 719,423 | 949,338 | 1,173,082 | 2,319,030 |
| Base Achievable % of 2010 Load | 0.7% | 1.3% | 2.0% | 2.6% | 3.2% | 6.4% |

5.5 INDUSTRIAL BENEFITS AND COSTS

Table 5-5 provides the economic impacts by EDC for the industrial base achievable and maximum achievable scenarios. Overall, the SWE Team found there to be a significant amount of cost-effective energy efficiency savings potential still attainable in Pennsylvania between 2016 and 2020. The SWE Team estimates that the NPV of the cost to attain all energy efficiency savings under the base achievable scenario at \$359.6 million from 2016 to 2020, while the benefits amount to over \$545 million during the same time period resulting in more than \$185 million in net benefits and a TRC ratio of 1.5.

Table 5-5: 2020 Industrial TRC Benefit-Cost Ratios by Achievable Scenario by EDC

| | NPV Costs (Million \$) | NPV Benefits (Million \$) | NPV Net Benefits (Million \$) | TRC BC Ratio |
|-------------------------------------|---------------------------|------------------------------|----------------------------------|--------------|
| Maximum Achievable Potential | | | | |
| Duquesne | \$49.9 | \$85.0 | \$35.1 | 1.7 |
| FE: Met-Ed | \$89.0 | \$143.1 | \$54.1 | 1.6 |
| FE: Penelec | \$96.5 | \$152.6 | \$56.1 | 1.6 |
| FE: Penn Power | \$22.9 | \$31.9 | \$9.0 | 1.4 |
| FE: West Penn | \$102.5 | \$157.1 | \$54.6 | 1.5 |
| PECO | \$143.8 | \$224.2 | \$80.3 | 1.6 |
| PPL | \$169.9 | \$257.8 | \$87.9 | 1.5 |
| Statewide | \$674.5 | \$1,051.8 | \$377.3 | 1.6 |

| | NPV Costs (Million \$) | NPV Benefits (Million \$) | NPV Net Benefits (Million \$) | TRC BC Ratio |
|----------------------------------|---------------------------|------------------------------|----------------------------------|--------------|
| Base Achievable Potential | | | | |
| Duquesne | \$26.7 | \$43.8 | \$17.1 | 1.6 |
| FE: Met-Ed | \$46.9 | \$73.5 | \$26.6 | 1.6 |
| FE: Penelec | \$51.9 | \$79.6 | \$27.7 | 1.5 |
| FE: Penn Power | \$11.8 | \$16.2 | \$4.4 | 1.4 |
| FE: West Penn | \$55.0 | \$81.7 | \$26.7 | 1.5 |
| PECO | \$76.6 | \$116.3 | \$39.7 | 1.5 |
| PPL | \$90.7 | \$134.1 | \$43.4 | 1.5 |
| Statewide | \$359.6 | \$545.2 | \$185.6 | 1.5 |

Table 5-6 summarizes the total estimated program expenses that would be paid by the EDCs to realize the five-year cumulative energy savings estimates under the base achievable and maximum achievable scenarios. For the industrial sector, the per-MWh acquisition cost is between \$148/MWh and \$159/MWh among the EDCs under the base achievable scenario. The total estimated five-year programmatic costs for all seven EDCs is estimated at \$188.2 million to achieve 1,214,609 MWh of industrial sector savings under the base achievable scenario, resulting in a statewide average acquisition cost of \$155/MWh.

Table 5-6: Five-Year Industrial Acquisition Costs (TRC) by Achievable Scenario by EDC

| EDC | 2016-2020 Program Costs (Million \$) | 2016-2020 Program Savings (MWh) | Acquisition Costs (\$/1 st -YR MWh Saved) |
|------------------------------------|---|------------------------------------|---|
| Maximum Achievable Scenario | | | |
| Duquesne | \$39.8 | 169,398 | \$235.0 |
| FE: Met-Ed | \$71.2 | 301,964 | \$235.7 |
| FE: Penelec | \$76.2 | 337,636 | \$225.8 |
| FE: Penn Power | \$17.8 | 83,356 | \$213.9 |
| FE: West Penn | \$80.0 | 368,218 | \$217.3 |
| PECO | \$113.3 | 507,951 | \$223.0 |
| PPL | \$135.8 | 576,821 | \$235.5 |
| Statewide | \$534.2 | 2,345,342 | \$227.8 |
| Base Achievable Scenario | | | |
| Duquesne | \$13.8 | 87,049 | \$158.7 |
| FE: Met-Ed | \$24.4 | 155,053 | \$157.4 |
| FE: Penelec | \$27.2 | 176,188 | \$154.5 |
| FE: Penn Power | \$6.3 | 42,250 | \$148.2 |
| FE: West Penn | \$29.0 | 191,385 | \$151.6 |
| PECO | \$40.3 | 263,156 | \$153.0 |
| PPL | \$47.2 | 299,528 | \$157.5 |
| Statewide | \$188.2 | 1,214,609 | \$154.9 |

6 Portfolio-Level Results and Energy Efficiency Program Potential Estimates

This section presents the total³⁹ technical, economic, and achievable potential and then presents the estimates of electric program potential for the Commonwealth of Pennsylvania as well as each EDC service area for 2016 through 2020. Program potential is an estimate of energy savings that can be achieved through programs within a specific planning constraint. This study estimates program potential for a scenario where annual program spending is capped at 2% of 2006 EDC revenues.

Program potential is only determined for the first five years of the study horizon, as the purpose of this analysis is to inform decision making on the next Phase of PA Act 129, expected to be the period from June 1, 2016 through May 31, 2020.

6.1 TOTAL TECHNICAL AND ECONOMIC POTENTIAL

Table 6-1 summarizes the total cumulative annual technical and economic potential. Total cumulative annual technical potential across all customer classes and EDCs is 25.3 million MWh after five years and 41.2 million MWh after 10 years. These numbers are equivalent to 17.3% and 28.1% of the baseline load, respectively. After excluding measures that were not cost-effective based on the TRC, potential decreases to 11.8% of the baseline load after five years, and 18.4% of the baseline load after 10 years.

Table 6-1: Total Cumulative Annual Technical and Economic Energy (MWh) Potential across all EDCs

| | 2016 | 2017 | 2018 | 2019 | 2020 | 2025 |
|--|-----------|------------|------------|------------|------------|------------|
| Cumulative Savings Potential - MWh | | | | | | |
| Technical | 6,707,085 | 13,016,622 | 18,973,644 | 24,294,903 | 25,336,859 | 41,190,328 |
| Economic | 4,895,392 | 9,387,083 | 13,662,316 | 17,628,245 | 17,253,764 | 26,944,933 |
| Cumulative Savings Potential - % of 2010 Load | | | | | | |
| Technical | 4.6% | 8.9% | 12.9% | 16.6% | 17.3% | 28.1% |
| Economic | 3.3% | 6.4% | 9.3% | 12.0% | 11.8% | 18.4% |

6.2 TOTAL ACHIEVABLE POTENTIAL

Table 6-2 shows the cumulative annual and incremental annual achievable savings potential. Incremental annual savings could achieve roughly 1.2% to 2.0% of 2010 load in the base achievable and maximum achievable scenarios, respectively. On a cumulative annual basis, the base achievable potential is 4.6% of the baseline load in 2020 and maximum achievable potential is 7.5% of baseline load in 2020. Without a spending cap, the EDC costs to acquire base achievable potential would range from \$300 million to \$360 million annually. In the maximum achievable scenario, assuming incentives equal to 100% of the measure cost, EDC costs would range from \$582 million to \$642 million annually.

Table 6-2: Total Cumulative Annual Achievable Energy (MWh) Potential across all EDCs

| | 2016 | 2017 | 2018 | 2019 | 2020 | 2025 |
|--|-----------|-----------|-----------|------------|------------|------------|
| Cumulative Savings Potential - MWh | | | | | | |
| Maximum Achievable | 2,761,211 | 5,438,518 | 8,133,238 | 10,772,462 | 10,983,129 | 19,357,092 |
| Base Achievable | 1,610,739 | 3,285,284 | 4,980,543 | 6,649,165 | 6,748,807 | 12,111,889 |
| Cumulative Savings Potential - % of 2010 Load | | | | | | |

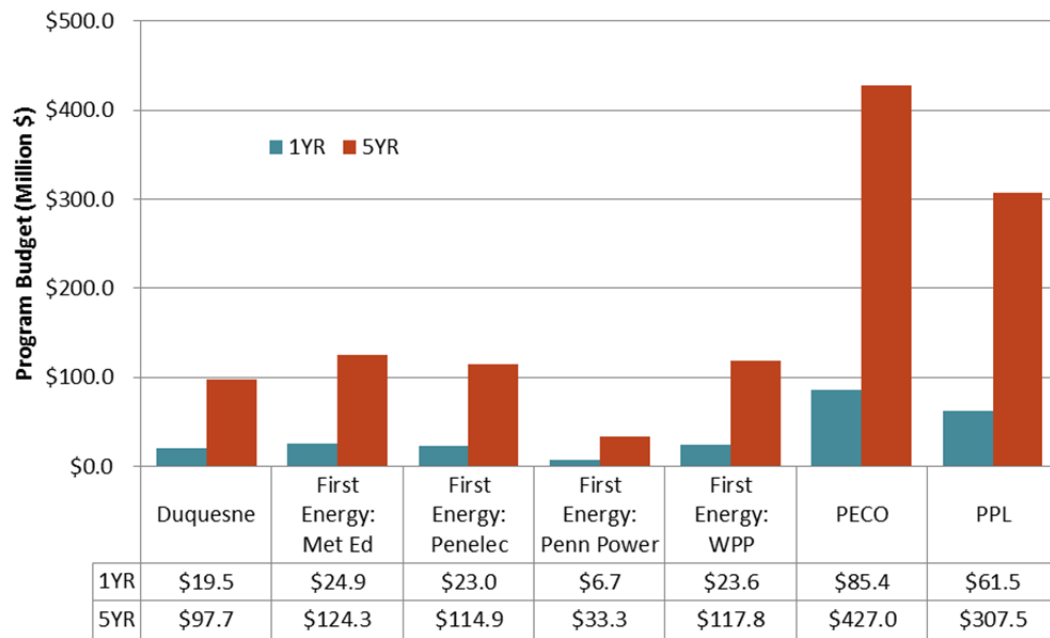
³⁹ Total potential represents the sum of residential and nonresidential potential.

| | 2016 | 2017 | 2018 | 2019 | 2020 | 2025 |
|---|-----------|-----------|-----------|-----------|-----------|-----------|
| Maximum Achievable | 1.9% | 3.7% | 5.5% | 7.3% | 7.5% | 13.2% |
| Base Achievable | 1.1% | 2.2% | 3.4% | 4.5% | 4.6% | 8.3% |
| Incremental Savings Potential - MWh | | | | | | |
| Maximum Achievable | 2,761,211 | 2,866,823 | 2,989,121 | 3,104,271 | 2,610,702 | 2,574,169 |
| Base Achievable | 1,610,739 | 1,725,249 | 1,836,917 | 1,943,976 | 1,665,279 | 1,794,256 |
| Incremental Savings Potential - % of 2010 Load | | | | | | |
| Maximum Achievable | 1.9% | 2.0% | 2.0% | 2.1% | 1.8% | 1.8% |
| Base Achievable | 1.1% | 1.2% | 1.3% | 1.3% | 1.1% | 1.2% |
| Annual EDC Program Costs – Million \$ | | | | | | |
| Maximum Achievable | \$581.8 | \$601.9 | \$619.9 | \$638.5 | \$607.0 | \$642.6 |
| Base Achievable | \$302.1 | \$316.2 | \$329.3 | \$342.6 | \$325.7 | \$361.6 |

6.3 TOTAL PROGRAM POTENTIAL

As noted above, program potential estimation considered an annual spending ceiling that limits the annual program spending to 2% of 2006 annual revenue. This program spending constraint is the same as currently implemented within Phase II of Act 129. The ceiling was determined for each EDC and is summed to the state level, as each EDC has a unique rate and customer structure. The 2006 spending for each EDC was obtained from the PA PUC. Figure 6-1 summarizes the annual spending ceiling and the spending ceiling for a five-year implementation phase for each EDC.

Figure 6-1 One-Year and Five-Year Program Potential Budgets



Estimation of program potential for Phase III of Act 129 (estimated to be a five-year cycle) utilizes both residential and nonresidential potential savings. Because the base achievable potential scenario is based on historical incentive levels in Phase I and Phase II, the SWE Team utilized this achievable scenario as a foundational piece in the determination of program potential. In calculating expected program costs, incentive and non-incentive, the SWE Team utilized economic and performance metrics from the Phase I and Phase II implementation of EDC programs, as described in Section 2.3, “Phase I/II EDC Performance Benchmarking,” of this report.

The first step in the program potential calculation is to compile the sum of the incremental annual five-year (2016-2020) residential and nonresidential sector estimates for energy efficiency savings potential and the associated costs in the base achievable potential scenario. The next step in the program potential calculation compares the sum of the residential and nonresidential program costs to the five-year budgets ceilings at the EDC and state levels. The final step to calculate program potential is to scale the respective EDC base achievable potential energy savings to the five-year spending ceiling value while holding the acquisition cost constant. Using this scaling approach, the SWE Team found that the total five-year program potential for energy efficiency savings to be 6.6 million MWh, representing 4.5% of the 2010 baseline load.

The five-year program potential energy savings and budget values are found in Table 6-3 for each EDC and the Commonwealth of Pennsylvania.

Table 6-3: Five-Year Program Potential Savings and Budget by EDC

| | Portfolio Spending Ceiling (Million \$) | Program Acquisition Costs (\$/1 st -YR MWh Saved) | 2016-2020 Potential Savings (MWh) | % of 2010 Forecast |
|--|---|--|-----------------------------------|--------------------|
| 2016-2020 – Five-Year Program Potential | | | | |
| Duquesne | \$97.7 | \$186.9 | 522,837 | 3.7% |
| FE: Met-Ed | \$124.3 | \$182.2 | 682,474 | 4.6% |
| FE: Penelec | \$114.9 | \$191.9 | 598,704 | 4.2% |
| FE: Penn Power | \$33.3 | \$176.1 | 189,107 | 4.0% |
| FE: West Penn | \$117.8 | \$181.0 | 650,760 | 3.1% |
| PECO | \$427.0 | \$184.7 | 2,311,387 | 5.9% |
| PPL | \$307.5 | \$183.7 | 1,674,191 | 4.4% |
| Statewide | \$1,222.5 | \$184.4 | 6,629,460 | 4.5% |

6.4 PROGRAM POTENTIAL BENEFITS AND COSTS

Table 6-4 provides the economic impacts for the program potential scenario. Overall, the SWE Team found that the costs incurred to acquire the estimated energy efficiency savings in the program potential scenario would have an NPV of \$1.7 billion. The lifetime benefits those energy savings would provide are estimated to equal more than \$3 billion, providing more than \$1.49 billion in net benefits for the Commonwealth of Pennsylvania.

Table 6-4: Five-Year Program Potential Benefit-Cost Results and TRC Ratios

| | NPV Costs (Million \$) | NPV Benefits (Million \$) | Net NPV Benefits (Million \$) | TRC BC Ratio |
|--|------------------------|---------------------------|-------------------------------|--------------|
| 2016-2020 – Five-Year Program Potential | | | | |
| Duquesne | \$143.7 | \$300.9 | \$157.2 | 2.1 |
| FE: Met-Ed | \$168.9 | \$325.0 | \$156.1 | 1.9 |
| FE: Penelec | \$159.7 | \$277.8 | \$118.1 | 1.7 |
| FE: Penn Power | \$43.0 | \$72.5 | \$29.4 | 1.7 |
| FE: West Penn | \$153.5 | \$275.0 | \$121.5 | 1.8 |
| PECO | \$600.1 | \$1,162.9 | \$562.8 | 1.9 |
| PPL | \$423.0 | \$770.1 | \$347.1 | 1.8 |
| Statewide | \$1,692.0 | \$3,184.2 | \$1,492.3 | 1.9 |

7 Conclusions & Recommendations

The final section of this report provides a brief summary of the overall potential findings and general conclusions and recommendations stemming from the SWE Team analysis.

7.1 SUMMARY

In summary, the remaining potential for cost-effective electric energy efficiency in the service areas of the seven EDCs bound under Act 129 is significant. The statewide estimated electricity savings attainable under the program potential scenario for the five-year time period (2016-2020) amount to 6,629,460 MWh (a 4.5% reduction in the projected 2010 baseline MWh sales) based on the sum of first-year savings over the five-year period. These values are based on an estimated weighted average portfolio acquisition cost among all EDCs of \$184/MWh saved.

The NPV costs to acquire the savings over the five-year period are equal to \$1.7 billion, yet yield NPV benefits during the same timeframe in excess of \$3 billion resulting in net benefits of \$1.49 billion and a TRC ratio of 1.9. The results of this study demonstrate that cost-effective electric energy efficiency resources can play an important role in Pennsylvania's energy resource mix during the next five years.

7.2 FINAL OBSERVATIONS

This energy efficiency potential study was designed as an update to the 2012 potential study and is intended to assess the remaining cost-effective electric energy efficiency potential in Pennsylvania over the possible implementation of Phase III of Act 129 (2016-2020). There are several important facts about the data and assumptions used in this electric energy efficiency potential study, including:

- The forecasts of program potential are based on many assumptions, including EDC-forecasted sales, avoided costs, measure costs and expected savings, the SWE Team's experience and industry knowledge, among others. A significant change to these assumptions can affect the applicability of the SWE Team's estimates (e.g., due to a large change in economic conditions).
- As discussed in Section 6, the SWE Team utilized a "scaling" approach to scale the base achievable savings potential to program potential given the estimated acquisition cost of obtaining the mix of measures adopted within the base achievable scenario. Given the budget ceiling for each EDC under Act 129, actual achieved savings could be higher or lower depending on the actual mix of "expensive" measures vs. "cheap" measures offered by EDCs in their DSM programs.
- Currently, Phase II of Act 129 has specific targets for two "set-asides" sectors: residential low income and government, nonprofit and institutional (GNI). This analysis considers the market opportunity for these "set-aside" sectors based on specific residential and commercial segments, but does not directly recommend whether targets should be established for the set-asides in Phase III or what those targets should be.
- The SWE Team estimated savings from the low income sub-sector in this analysis based on historical program offerings and experience as well as current market conditions. Any significant increases to these offerings might impact overall potential, likely with the effect of reducing program potential. For instance, residential low income programs often utilize 100% incremental measure cost incentives. Higher budgets for either set-aside program would have the consequence of reducing the overall budget for the broader portfolio, leading to reduced program potential savings.
- The scenarios examined in this study (base achievable and maximum achievable) are intended to align with the aggressiveness of program delivery, generally aligned with program spending

levels and the associated average incentive rates. The SWE Team used the EDCs' historical incentive rates coupled with other regional trends to inform the aggressiveness of the market adoption for the base achievable scenario in this study. Findings from the willingness-to-pay research collected during the baseline studies were used to inform the achievable scenarios.

- This study includes a comprehensive list of energy efficiency measures for the residential, commercial, and industrial sectors. For example, consumer electronics are treated as a comprehensive end use in the residential sector in this analysis. The SWE Team included all of the energy efficiency measures in the 2015 Pennsylvania Technical Reference manual in this study.
- The SWE Team closely examined and included the anticipated impacts of the federal lighting standards (EISA and EPCAct) in its measure research (among other code impacts). While these higher baselines eroded a large share of eligible energy savings claimed by EDCs during Phase I and Phase II of Act 129, the SWE Team still found a reasonable share of remaining potential in the lighting end use for Phase III.
- All equipment measures were assumed to be eligible to revert back to the code baseline when they reached the end of their useful life. This assumption allows for savings to be collected regardless of the prior equipment's efficiency. The 2012 potential study omitted already efficient equipment from future potential which resulted in fewer eligible measures and lower potential for savings.
- Administrative costs were not included when screening measures for cost-effectiveness, but were included in program acquisition costs and the calculation of the TRC cost effectiveness test.
- While measure costs are assumed to hold constant for cost-effective screening, the SWE Team did apply an inflation rate to both incremental measure costs and administrative costs when estimating program delivery and TRC costs over the five-year period.
- The SWE team found that the vast majority of space cooling equipment measures (e.g., unitary air conditioners) are no longer cost-effective in Pennsylvania under the TRC cost effectiveness test. While the SWE Team did not conduct a full investigation into this finding, we believe the reduction in the effective full load hours (EFLH) in the 2015 TRM played a significant role. This finding reduced savings in the space cooling end use and resulted in an overall lower acquisition cost than what might have otherwise occurred had space cooling equipment been cost-effective (as was the case in the 2012 study).
- This study considered the latest available forecasts of electric avoided costs provided by the seven EDCs. Future updates to EDC avoided costs could result in a different cost-effective measure mix and alternate estimates of electric energy efficiency potential.

It is clear that electric energy efficiency programs could save residents and business owners of Pennsylvania a substantial amount of electricity by 2020, despite the savings achieved to-date by the EDCs and increasing equipment efficiency standards. The SWE Team estimates that the attainable statewide program potential electricity savings, based on the sum of first-year savings for the five-year period (2016-2020), amounts to 6,629,460 MWh (a 4.5% reduction in the projected 2010 baseline MWh sales). The SWE Team further finds that DSM programs offered by the EDCs will continue to be cost-effective in a possible Phase III with an estimated TRC ratio of 1.9. The electric energy efficiency potential estimates and the TRC savings provided in this report are based on the latest load forecasts and avoided cost forecasts provided by the EDCs. Over time, additional technologies are likely to become available in the market that may serve to increase the potential for energy and demand savings and warrant additional attention. Finally, actual energy and demand savings will depend upon the level and degree of Pennsylvania residences and business participation in the energy efficiency programs offered by the EDCs.

APPENDIX A

GLOSSARY

GLOSSARY

The following list defines many of the key energy efficiency terms used throughout this energy efficiency potential study.

Achievable Potential: The amount of energy use that energy efficiency can realistically be expected to displace. Achievable potential takes into account real-world barriers to convincing end-users to adopt efficiency measures, the non-measure costs of delivering programs (for administration, marketing, tracking systems, monitoring and evaluation, etc.), and the capability of programs and administrators to ramp up program activity over time. (*See also Base Achievable Potential and Maximum Achievable Potential*).

Acquisition Costs are defined within this report as program expense dollars spent to acquire first-year energy savings. Program expense dollars include all program costs such as rebates, incentives, administrative costs, as well as marketing, outreach, and evaluation expenditures. Discussion of acquisition cost is useful because of its simplicity (costs divided by first year savings). However, this metric does have important limitations, because it does not reflect the value of the energy savings as a resource. Additional savings parameters would need to be included, specifically measure lifetime, to determine the value of the savings resource.

Adoption Rate is the rate at which new technologies, processes and innovations spreads through a society, and why they are adopted over old methods.

Applicability Factor: The fraction of the applicable dwelling units or businesses that is technically feasible for conversion to the efficient technology from an engineering perspective (e.g., it may not be possible to install CFLs in all light sockets in a home because the CFLs may not fit in every socket in a home).

Avoided Costs: The cost of producing or delivering power that the utility can avoid by lowering capacity and energy requirements.

Base Achievable Potential: An achievable potential scenario that is based on historical incentive levels and the corresponding program adoption rates observed from the Pennsylvania EDCs, other regional utility demand-side management (DSM) programs, and willingness-to-participate surveys conducted for the 2014 PA PUC baseline studies

Base Case Equipment End-Use Intensity: The electricity used per customer per year by each base-case technology in each market segment. This is the consumption of the electric energy using equipment that the efficient technology replaces or affects. For example, if the efficient measure is a high efficiency light bulb (CFL), the base end-use intensity would be the annual kWh use per bulb per household associated with an incandescent light bulb that provides equivalent lumens to the CFL.

Compound Annual Growth Rate (CAGR) is the year-over-year growth rate of an investment over a specified period of time.

Cost-Effectiveness: A measure of the relevant economic effects resulting from the implementation of an energy efficiency measure. If the benefits are greater than the costs, the measure is said to be cost-effective.

Cumulative Annual: Refers to the overall annual savings occurring in a given year from both new participants and annual savings continuing to result from past participation with energy efficiency measures that are still in place. Cumulative annual does not always equal the sum of all prior year incremental values as some energy efficiency measures have relatively short lives and, as a result, their savings drop off over time.

Commercial Sector: Comprised of non-manufacturing premises typically used to sell a product or provide a service, where electricity is consumed primarily for lighting, space cooling and heating, office equipment and other appliances.

Conservation Voltage Reduction (CVR): A change in the voltage made by a physical adjustment in transformer settings governing voltage at the substation. By adjusting substation voltage, the program impacts hourly energy flows and capacity, including demand coincident with the system peak period(s).

Demand Response: Refers to demand resources involving dynamic hourly load response to market conditions, such as curtailment or load control programs.

Energy Use Intensity (EUI): A unit of measurement that describes a building's energy use. EUI represents the energy consumed by a building relative to its size.

Early Replacement: Refers to an efficiency measure or efficiency program that seeks to encourage the replacement of functional equipment before the end of its operating life with higher-efficiency units.

Economic Potential: The subset of the technical potential that is economically cost-effective as compared to conventional supply-side energy resources. Economic ignores market barriers to ensuring actual implementation of efficiency. Finally, economic potential only considers the costs of efficiency measures themselves, ignoring any programmatic costs (e.g., marketing, analysis, administration) that would be necessary to capture them.

End-Use: A category of equipment or service that consumes energy (e.g., lighting, refrigeration, heating, process heat, cooling).

Energy Efficiency: Using less energy to provide the same or an improved level of service to the energy consumer in an economically efficient way. Sometimes "conservation" is used as a synonym, but that term is usually taken to mean using less of a resource even if this results in a lower service level (e.g., setting a thermostat lower or reducing lighting levels).

First Year Savings: Savings accrued in the first year of the measure's installation. Future benefits are not considered.

Gross Savings: Gross energy (or demand) savings are the change in energy consumption or demand that results directly from program-promoted actions (e.g., installing energy-efficient lighting) taken by program participants regardless of the extent or nature of program influence on their actions.

Incentive Costs: A rebate or some form of payment used to encourage people to implement a given demand-side management (DSM) technology. The incentive is calculated as the amount of the

technology costs that must be paid by the utility for the participant test to equal one and achieve the desired benefit/cost ratio to drive the market.

Incremental Annual: Savings or costs in a given year associated only with new installations happening in that specific year.

Industrial Sector: Comprised of manufacturing premises typically used for producing and processing goods, where electricity is consumed primarily for operating motors, process cooling and heating, and space heating, ventilation, and air conditioning (HVAC). Business types are included in section 5 – methodology.

Maximum Achievable Potential: An achievable potential scenario that assumes the most aggressive program scenario possible (e.g. providing end users with payments for the entire incremental cost of more efficient equipment).

Measure: Any action taken to increase energy efficiency, whether through changes in equipment, changes to a building shell, implementation of control strategies, or changes in consumer behavior. Examples are higher-efficiency central air conditioners, occupancy sensor control of lighting, and retro-commissioning. In some cases, bundles of technologies or practices may be modeled as single measures. For example, an ENERGY STAR[®]™ home package may be treated as a single measure.

MW: A unit of electrical output, equal to one million watts or one thousand kilowatts. It is typically used to refer to the output of a power plant.

MWh: One thousand kilowatt-hours, or one million watt-hours. One MWh is equal to the use of 1,000,000 watts of power in one hour.

Net Savings: Net energy or demand savings refer to the portion of gross savings that is attributable to the program. This involves separating out the impacts that are a result of other influences, such as consumer self-motivation. Given the range of influences on consumers' energy consumption, attributing changes to one cause (i.e., a particular program) or another can be quite complex.

Participant Cost: The cost to the participant to participate in an energy efficiency program.

Portfolio: Either a collection of similar programs addressing the same market, technology, or mechanisms; or the set of all programs conducted by one energy efficiency organization or utility.

Program: A mechanism for encouraging energy efficiency that may be funded by a variety of sources and pursued by a wide range of approaches (typically includes multiple energy efficiency measures).

Program Potential: the efficiency potential possible given specific program funding levels and designs. Program potential studies can consider scenarios ranging from a single program to a full portfolio of programs. A typical potential study may report a range of results based on different program funding levels. For this study, the SWE Team has opted to utilize a simple-scaling approach to estimate program potential given the available DSM budgets stipulated under Act 129 (2% of 2006 revenues).

Remaining Factor: The fraction of applicable units that have not yet been converted to the electric energy efficiency measure; that is, one minus the fraction of units that already have the energy efficiency measure installed.

Replace-on-burnout: A DSM measure is not implemented until the existing technology it is replacing fails or burns out. An example would be an energy efficient water heater being purchased after the failure of the existing water heater at the end of its useful life.

Retrofit: Refers to an efficiency measure or efficiency program that seeks to encourage the replacement of functional equipment before the end of its operating life with higher-efficiency units (also called “early retirement”) or the installation of additional controls, equipment, or materials in existing facilities for purposes of reducing energy consumption (e.g., increased insulation, low flow devices, lighting occupancy controls, economizer ventilation systems).

Savings Factor: The percentage reduction in electricity consumption resulting from application of the efficient technology. The savings factor is used in the formulas to calculate energy efficiency potential.

Technical Potential: The theoretical maximum amount of energy use that could be displaced by efficiency, disregarding all non-engineering constraints such as cost-effectiveness and the willingness of end users to adopt the efficiency measures. Technical potential is constrained only by factors such as technical feasibility and applicability of measures.

Total Resource Cost Test: The TRC measures the net benefits of the energy efficiency program for a region or service area as a whole. Costs included in the TRC are costs to purchase and install the energy efficiency measure and overhead costs of running the energy efficiency program. The benefits included are the avoided costs of energy and capacity. For purposes of this study, non-electric benefits were not included in the calculation of TRC benefits.

APPENDIX B

AVOIDED COSTS & GENERAL MODELING ASSUMPTIONS

DUQUESNE

Avoided Cost Assumptions

| Year | Avoided Energy | | | | Avoided Capacity \$/kW-Yr | Avoided T&D \$/kW-Yr | Avoided Transmission Only \$/kW-Yr |
|------|----------------|-----------------|-------------|-----------------|------------------------------|-------------------------|---------------------------------------|
| | Winter Peak | Winter Off-Peak | Summer Peak | Summer Off Peak | | | |
| | \$/MWh | \$/MWh | \$/MWh | \$/MWh | | | |
| 2016 | 46.645 | 32.850 | 46.645 | 32.850 | 21.67 | 40.88 | 40.88 |
| 2017 | 47.755 | 33.865 | 47.755 | 33.865 | 43.80 | 41.64 | 41.64 |
| 2018 | 38.69 | 38.69 | 40.23 | 40.23 | 44.62 | 42.42 | 42.42 |
| 2019 | 40.17 | 40.17 | 41.77 | 41.77 | 45.45 | 43.22 | 43.22 |
| 2020 | 41.64 | 41.64 | 43.36 | 43.36 | 46.30 | 44.02 | 44.02 |
| 2021 | 43.12 | 43.12 | 44.96 | 44.96 | 47.17 | 44.85 | 44.85 |
| 2022 | 44.17 | 44.17 | 45.79 | 45.79 | 48.05 | 45.69 | 45.69 |
| 2023 | 85.56 | 85.56 | 85.56 | 85.56 | 48.95 | 46.54 | 46.54 |
| 2024 | 87.69 | 87.69 | 87.69 | 87.69 | 49.87 | 47.41 | 47.41 |
| 2025 | 89.11 | 89.11 | 89.11 | 89.11 | 50.80 | 48.30 | 48.30 |
| 2026 | 90.81 | 90.81 | 90.81 | 90.81 | 51.75 | 49.20 | 49.20 |
| 2027 | 93.19 | 93.19 | 93.19 | 93.19 | 52.72 | 50.12 | 50.12 |
| 2028 | 95.22 | 95.22 | 95.22 | 95.22 | 53.70 | 51.06 | 51.06 |
| 2029 | 96.69 | 96.69 | 96.69 | 96.69 | 54.71 | 52.01 | 52.01 |
| 2030 | 97.84 | 97.84 | 97.84 | 97.84 | 55.73 | 52.99 | 52.99 |
| 2031 | 99.74 | 99.74 | 99.74 | 99.74 | 56.77 | 53.98 | 53.98 |
| 2032 | 99.74 | 99.74 | 99.74 | 99.74 | 57.83 | 54.99 | 54.99 |
| 2033 | 102.44 | 102.44 | 102.44 | 102.44 | 58.91 | 56.01 | 56.01 |
| 2034 | 105.56 | 105.56 | 105.56 | 105.56 | 60.02 | 57.06 | 57.06 |
| 2035 | 107.54 | 107.54 | 107.54 | 107.54 | 61.14 | 58.13 | 58.13 |
| 2036 | 109.55 | 109.55 | 109.55 | 109.55 | 62.28 | 59.22 | 59.22 |
| 2037 | 111.60 | 111.60 | 111.60 | 111.60 | 63.45 | 60.32 | 60.32 |
| 2038 | 113.68 | 113.68 | 113.68 | 113.68 | 64.63 | 61.45 | 61.45 |
| 2039 | 115.81 | 115.81 | 115.81 | 115.81 | 65.84 | 62.60 | 62.60 |
| 2040 | 117.97 | 117.97 | 117.97 | 117.97 | 67.07 | 63.77 | 63.77 |
| 2041 | 120.18 | 120.18 | 120.18 | 120.18 | 68.33 | 64.96 | 64.96 |
| 2042 | 122.43 | 122.43 | 122.43 | 122.43 | 69.60 | 66.18 | 66.18 |
| 2043 | 124.72 | 124.72 | 124.72 | 124.72 | 70.91 | 67.42 | 67.42 |
| 2044 | 127.05 | 127.05 | 127.05 | 127.05 | 72.23 | 68.68 | 68.68 |
| 2045 | 129.43 | 129.43 | 129.43 | 129.43 | 73.58 | 69.96 | 69.96 |

Other General Modeling Assumptions

| | |
|--|--------|
| Avoided Cost Inflation Rate <i>(BLS Statistic)</i> | 1.87% |
| Residential Line Loss Multiplier | 1.0741 |
| Commercial Line Loss Multiplier | 1.0741 |
| Industrial Line Loss Multiplier | 1.0081 |

FIRST ENERGY – MET-ED

Avoided Cost Assumptions

| Year | Avoided Energy | | | | Avoided Capacity \$/kW-Yr | Avoided T&D \$/kW-Yr | Avoided Transmission Only \$/kW-Yr |
|------|----------------|-----------------|-------------|-----------------|------------------------------|-------------------------|---------------------------------------|
| | Winter Peak | Winter Off-Peak | Summer Peak | Summer Off Peak | | | |
| | \$/MWh | \$/MWh | \$/MWh | \$/MWh | | | |
| 2016 | 51.089 | 39.826 | 51.089 | 39.826 | 43.48 | 40.98 | 14.77 |
| 2017 | 50.762 | 40.357 | 50.762 | 40.357 | 43.80 | 41.75 | 15.05 |
| 2018 | 51.07 | 41.45 | 51.07 | 41.45 | 44.62 | 42.53 | 15.33 |
| 2019 | 52.60 | 42.58 | 52.60 | 42.58 | 45.45 | 43.32 | 15.61 |
| 2020 | 54.13 | 43.60 | 54.13 | 43.60 | 46.30 | 44.13 | 15.91 |
| 2021 | 56.35 | 45.05 | 56.35 | 45.05 | 47.17 | 44.96 | 16.20 |
| 2022 | 58.38 | 46.36 | 58.38 | 46.36 | 48.05 | 45.80 | 16.51 |
| 2023 | 60.08 | 47.46 | 60.08 | 47.46 | 48.95 | 46.65 | 16.82 |
| 2024 | 61.35 | 48.27 | 61.35 | 48.27 | 49.87 | 47.53 | 17.13 |
| 2025 | 62.47 | 49.01 | 62.47 | 49.01 | 50.80 | 48.42 | 17.45 |
| 2026 | 63.93 | 49.97 | 63.93 | 49.97 | 51.75 | 49.32 | 17.78 |
| 2027 | 73.08 | 56.28 | 73.08 | 56.28 | 52.72 | 50.24 | 18.11 |
| 2028 | 86.30 | 64.62 | 86.30 | 64.62 | 53.70 | 51.18 | 18.45 |
| 2029 | 92.75 | 68.84 | 92.75 | 68.84 | 54.71 | 52.14 | 18.79 |
| 2030 | 99.14 | 72.96 | 99.14 | 72.96 | 55.73 | 53.12 | 19.14 |
| 2031 | 101.00 | 74.33 | 101.00 | 74.33 | 56.77 | 54.11 | 19.50 |
| 2032 | 102.89 | 75.72 | 102.89 | 75.72 | 57.83 | 55.12 | 19.87 |
| 2033 | 104.81 | 77.13 | 104.81 | 77.13 | 58.91 | 56.15 | 20.24 |
| 2034 | 106.77 | 78.58 | 106.77 | 78.58 | 60.02 | 57.20 | 20.62 |
| 2035 | 108.77 | 80.05 | 108.77 | 80.05 | 61.14 | 58.27 | 21.00 |
| 2036 | 110.80 | 81.54 | 110.80 | 81.54 | 62.28 | 59.36 | 21.39 |
| 2037 | 112.87 | 83.07 | 112.87 | 83.07 | 63.45 | 60.47 | 21.79 |
| 2038 | 114.98 | 84.62 | 114.98 | 84.62 | 64.63 | 61.60 | 22.20 |
| 2039 | 117.13 | 86.20 | 117.13 | 86.20 | 65.84 | 62.75 | 22.62 |
| 2040 | 119.32 | 87.82 | 119.32 | 87.82 | 67.07 | 63.93 | 23.04 |
| 2041 | 121.56 | 89.46 | 121.56 | 89.46 | 68.33 | 65.12 | 23.47 |
| 2042 | 123.83 | 91.13 | 123.83 | 91.13 | 69.60 | 66.34 | 23.91 |
| 2043 | 126.14 | 92.84 | 126.14 | 92.84 | 70.91 | 67.58 | 24.36 |
| 2044 | 128.50 | 94.57 | 128.50 | 94.57 | 72.23 | 68.84 | 24.81 |
| 2045 | 130.91 | 96.34 | 130.91 | 96.34 | 73.58 | 70.13 | 25.28 |

Other General Modeling Assumptions

| | |
|--|--------|
| Avoided Cost Inflation Rate <i>(BLS Statistic)</i> | 1.87% |
| Residential Line Loss Multiplier | 1.0945 |
| Commercial Line Loss Multiplier | 1.0720 |
| Industrial Line Loss Multiplier | 1.0720 |

FIRST ENERGY – PENELEC

Avoided Cost Assumptions

| Year | Avoided Energy | | | | Avoided Capacity \$/kW-Yr | Avoided T&D \$/kW-Yr | Avoided Transmission Only \$/kW-Yr |
|------|----------------|-----------------|-------------|-----------------|------------------------------|-------------------------|---------------------------------------|
| | Winter Peak | Winter Off-Peak | Summer Peak | Summer Off Peak | | | |
| | \$/MWh | \$/MWh | \$/MWh | \$/MWh | | | |
| 2016 | 49.842 | 33.234 | 49.842 | 33.234 | 43.48 | 40.98 | 14.77 |
| 2017 | 49.516 | 33.675 | 49.516 | 33.675 | 43.80 | 41.75 | 15.05 |
| 2018 | 49.83 | 34.58 | 49.83 | 34.58 | 44.62 | 42.53 | 15.33 |
| 2019 | 51.33 | 35.52 | 51.33 | 35.52 | 45.45 | 43.32 | 15.61 |
| 2020 | 52.72 | 36.42 | 52.72 | 36.42 | 46.30 | 44.13 | 15.91 |
| 2021 | 54.69 | 37.70 | 54.69 | 37.70 | 47.17 | 44.96 | 16.20 |
| 2022 | 56.48 | 38.85 | 56.48 | 38.85 | 48.05 | 45.80 | 16.51 |
| 2023 | 57.97 | 39.81 | 57.97 | 39.81 | 48.95 | 46.65 | 16.82 |
| 2024 | 59.09 | 40.52 | 59.09 | 40.52 | 49.87 | 47.53 | 17.13 |
| 2025 | 60.07 | 41.17 | 60.07 | 41.17 | 50.80 | 48.42 | 17.45 |
| 2026 | 61.36 | 42.02 | 61.36 | 42.02 | 51.75 | 49.32 | 17.78 |
| 2027 | 73.66 | 50.79 | 73.66 | 50.79 | 52.72 | 50.24 | 18.11 |
| 2028 | 91.51 | 61.78 | 91.51 | 61.78 | 53.70 | 51.18 | 18.45 |
| 2029 | 97.96 | 66.00 | 97.96 | 66.00 | 54.71 | 52.14 | 18.79 |
| 2030 | 104.36 | 70.13 | 104.36 | 70.13 | 55.73 | 53.12 | 19.14 |
| 2031 | 106.31 | 71.44 | 106.31 | 71.44 | 56.77 | 54.11 | 19.50 |
| 2032 | 108.30 | 72.77 | 108.30 | 72.77 | 57.83 | 55.12 | 19.87 |
| 2033 | 110.32 | 74.13 | 110.32 | 74.13 | 58.91 | 56.15 | 20.24 |
| 2034 | 112.38 | 75.52 | 112.38 | 75.52 | 60.02 | 57.20 | 20.62 |
| 2035 | 114.49 | 76.93 | 114.49 | 76.93 | 61.14 | 58.27 | 21.00 |
| 2036 | 116.63 | 78.37 | 116.63 | 78.37 | 62.28 | 59.36 | 21.39 |
| 2037 | 118.81 | 79.84 | 118.81 | 79.84 | 63.45 | 60.47 | 21.79 |
| 2038 | 121.03 | 81.33 | 121.03 | 81.33 | 64.63 | 61.60 | 22.20 |
| 2039 | 123.29 | 82.85 | 123.29 | 82.85 | 65.84 | 62.75 | 22.62 |
| 2040 | 125.60 | 84.40 | 125.60 | 84.40 | 67.07 | 63.93 | 23.04 |
| 2041 | 127.95 | 85.98 | 127.95 | 85.98 | 68.33 | 65.12 | 23.47 |
| 2042 | 130.34 | 87.59 | 130.34 | 87.59 | 69.60 | 66.34 | 23.91 |
| 2043 | 132.78 | 89.22 | 132.78 | 89.22 | 70.91 | 67.58 | 24.36 |
| 2044 | 135.26 | 90.89 | 135.26 | 90.89 | 72.23 | 68.84 | 24.81 |
| 2045 | 137.79 | 92.59 | 137.79 | 92.59 | 73.58 | 70.13 | 25.28 |

Other General Modeling Assumptions

| | |
|--|--------|
| Avoided Cost Inflation Rate <i>(BLS Statistic)</i> | 1.87% |
| Residential Line Loss Multiplier | 1.0945 |
| Commercial Line Loss Multiplier | 1.0720 |
| Industrial Line Loss Multiplier | 1.0720 |

FIRST ENERGY – PENN POWER

Avoided Cost Assumptions

| Year | Avoided Energy | | | | Avoided Capacity \$/kW-Yr | Avoided T&D \$/kW-Yr | Avoided Transmission Only \$/kW-Yr |
|------|----------------|-----------------|-------------|-----------------|------------------------------|-------------------------|---------------------------------------|
| | Winter Peak | Winter Off-Peak | Summer Peak | Summer Off Peak | | | |
| | \$/MWh | \$/MWh | \$/MWh | \$/MWh | | | |
| 2016 | 51.255 | 31.805 | 51.255 | 31.805 | 41.69 | 40.98 | 14.77 |
| 2017 | 50.800 | 32.218 | 50.800 | 32.218 | 43.80 | 41.75 | 15.05 |
| 2018 | 51.15 | 33.08 | 51.15 | 33.08 | 44.62 | 42.53 | 15.33 |
| 2019 | 52.99 | 33.99 | 52.99 | 33.99 | 45.45 | 43.32 | 15.61 |
| 2020 | 54.39 | 34.86 | 54.39 | 34.86 | 46.30 | 44.13 | 15.91 |
| 2021 | 56.36 | 36.14 | 56.36 | 36.14 | 47.17 | 44.96 | 16.20 |
| 2022 | 58.17 | 37.30 | 58.17 | 37.30 | 48.05 | 45.80 | 16.51 |
| 2023 | 59.66 | 38.26 | 59.66 | 38.26 | 48.95 | 46.65 | 16.82 |
| 2024 | 60.80 | 38.98 | 60.80 | 38.98 | 49.87 | 47.53 | 17.13 |
| 2025 | 61.77 | 39.63 | 61.77 | 39.63 | 50.80 | 48.42 | 17.45 |
| 2026 | 63.05 | 40.47 | 63.05 | 40.47 | 51.75 | 49.32 | 17.78 |
| 2027 | 74.35 | 49.05 | 74.35 | 49.05 | 52.72 | 50.24 | 18.11 |
| 2028 | 93.02 | 60.20 | 93.02 | 60.20 | 53.70 | 51.18 | 18.45 |
| 2029 | 99.43 | 64.41 | 99.43 | 64.41 | 54.71 | 52.14 | 18.79 |
| 2030 | 105.88 | 68.55 | 105.88 | 68.55 | 55.73 | 53.12 | 19.14 |
| 2031 | 107.86 | 69.83 | 107.86 | 69.83 | 56.77 | 54.11 | 19.50 |
| 2032 | 109.88 | 71.13 | 109.88 | 71.13 | 57.83 | 55.12 | 19.87 |
| 2033 | 111.93 | 72.46 | 111.93 | 72.46 | 58.91 | 56.15 | 20.24 |
| 2034 | 114.03 | 73.82 | 114.03 | 73.82 | 60.02 | 57.20 | 20.62 |
| 2035 | 116.16 | 75.20 | 116.16 | 75.20 | 61.14 | 58.27 | 21.00 |
| 2036 | 118.33 | 76.61 | 118.33 | 76.61 | 62.28 | 59.36 | 21.39 |
| 2037 | 120.55 | 78.04 | 120.55 | 78.04 | 63.45 | 60.47 | 21.79 |
| 2038 | 122.80 | 79.50 | 122.80 | 79.50 | 64.63 | 61.60 | 22.20 |
| 2039 | 125.10 | 80.98 | 125.10 | 80.98 | 65.84 | 62.75 | 22.62 |
| 2040 | 127.44 | 82.50 | 127.44 | 82.50 | 67.07 | 63.93 | 23.04 |
| 2041 | 129.82 | 84.04 | 129.82 | 84.04 | 68.33 | 65.12 | 23.47 |
| 2042 | 132.25 | 85.61 | 132.25 | 85.61 | 69.60 | 66.34 | 23.91 |
| 2043 | 134.72 | 87.21 | 134.72 | 87.21 | 70.91 | 67.58 | 24.36 |
| 2044 | 137.24 | 88.85 | 137.24 | 88.85 | 72.23 | 68.84 | 24.81 |
| 2045 | 139.80 | 90.51 | 139.80 | 90.51 | 73.58 | 70.13 | 25.28 |

Other General Modeling Assumptions

| | |
|--|--------|
| Avoided Cost Inflation Rate <i>(BLS Statistic)</i> | 1.87% |
| Residential Line Loss Multiplier | 1.0949 |
| Commercial Line Loss Multiplier | 1.0545 |
| Industrial Line Loss Multiplier | 1.0545 |

FIRST ENERGY – WEST PENN POWER

Avoided Cost Assumptions

| Year | Avoided Energy | | | | Avoided Capacity \$/kW-Yr | Avoided T&D \$/kW-Yr | Avoided Transmission Only \$/kW-Yr |
|------|----------------|-----------------|-------------|-----------------|------------------------------|-------------------------|---------------------------------------|
| | Winter Peak | Winter Off-Peak | Summer Peak | Summer Off Peak | | | |
| | \$/MWh | \$/MWh | \$/MWh | \$/MWh | | | |
| 2016 | 48.993 | 38.440 | 48.993 | 38.440 | 21.67 | 40.98 | 14.77 |
| 2017 | 48.651 | 38.786 | 48.651 | 38.786 | 43.80 | 41.75 | 15.05 |
| 2018 | 48.95 | 39.82 | 48.95 | 39.82 | 44.62 | 42.53 | 15.33 |
| 2019 | 50.41 | 40.90 | 50.41 | 40.90 | 45.45 | 43.32 | 15.61 |
| 2020 | 51.80 | 41.84 | 51.80 | 41.84 | 46.30 | 44.13 | 15.91 |
| 2021 | 53.77 | 43.11 | 53.77 | 43.11 | 47.17 | 44.96 | 16.20 |
| 2022 | 55.56 | 44.27 | 55.56 | 44.27 | 48.05 | 45.80 | 16.51 |
| 2023 | 57.04 | 45.23 | 57.04 | 45.23 | 48.95 | 46.65 | 16.82 |
| 2024 | 58.15 | 45.94 | 58.15 | 45.94 | 49.87 | 47.53 | 17.13 |
| 2025 | 59.14 | 46.59 | 59.14 | 46.59 | 50.80 | 48.42 | 17.45 |
| 2026 | 60.43 | 47.44 | 60.43 | 47.44 | 51.75 | 49.32 | 17.78 |
| 2027 | 72.99 | 56.22 | 72.99 | 56.22 | 52.72 | 50.24 | 18.11 |
| 2028 | 90.63 | 67.20 | 90.63 | 67.20 | 53.70 | 51.18 | 18.45 |
| 2029 | 97.09 | 71.42 | 97.09 | 71.42 | 54.71 | 52.14 | 18.79 |
| 2030 | 103.47 | 75.55 | 103.47 | 75.55 | 55.73 | 53.12 | 19.14 |
| 2031 | 105.41 | 76.96 | 105.41 | 76.96 | 56.77 | 54.11 | 19.50 |
| 2032 | 107.38 | 78.40 | 107.38 | 78.40 | 57.83 | 55.12 | 19.87 |
| 2033 | 109.39 | 79.87 | 109.39 | 79.87 | 58.91 | 56.15 | 20.24 |
| 2034 | 111.43 | 81.36 | 111.43 | 81.36 | 60.02 | 57.20 | 20.62 |
| 2035 | 113.52 | 82.88 | 113.52 | 82.88 | 61.14 | 58.27 | 21.00 |
| 2036 | 115.64 | 84.43 | 115.64 | 84.43 | 62.28 | 59.36 | 21.39 |
| 2037 | 117.80 | 86.01 | 117.80 | 86.01 | 63.45 | 60.47 | 21.79 |
| 2038 | 120.00 | 87.62 | 120.00 | 87.62 | 64.63 | 61.60 | 22.20 |
| 2039 | 122.25 | 89.26 | 122.25 | 89.26 | 65.84 | 62.75 | 22.62 |
| 2040 | 124.53 | 90.92 | 124.53 | 90.92 | 67.07 | 63.93 | 23.04 |
| 2041 | 126.86 | 92.63 | 126.86 | 92.63 | 68.33 | 65.12 | 23.47 |
| 2042 | 129.24 | 94.36 | 129.24 | 94.36 | 69.60 | 66.34 | 23.91 |
| 2043 | 131.65 | 96.12 | 131.65 | 96.12 | 70.91 | 67.58 | 24.36 |
| 2044 | 134.11 | 97.92 | 134.11 | 97.92 | 72.23 | 68.84 | 24.81 |
| 2045 | 136.62 | 99.75 | 136.62 | 99.75 | 73.58 | 70.13 | 25.28 |

Other General Modeling Assumptions

| | |
|--|--------|
| Avoided Cost Inflation Rate <i>(BLS Statistic)</i> | 1.87% |
| Residential Line Loss Multiplier | 1.0910 |
| Commercial Line Loss Multiplier | 1.0790 |
| Industrial Line Loss Multiplier | 1.0790 |

FIRST ENERGY – PECO

Avoided Cost Assumptions

| Year | Avoided Energy | | | | Avoided Capacity \$/kW-Yr | Avoided T&D \$/kW-Yr | Avoided Transmission Only \$/kW-Yr |
|------|----------------|-----------------|-------------|-----------------|------------------------------|-------------------------|---------------------------------------|
| | Winter Peak | Winter Off-Peak | Summer Peak | Summer Off Peak | | | |
| | \$/MWh | \$/MWh | \$/MWh | \$/MWh | | | |
| 2016 | 47.200 | 37.700 | 56.300 | 33.600 | 43.48 | 49.27 | 3.88 |
| 2017 | 49.500 | 39.700 | 58.400 | 35.500 | 43.80 | 50.19 | 3.95 |
| 2018 | 52.40 | 41.80 | 61.60 | 37.20 | 44.62 | 51.13 | 4.02 |
| 2019 | 55.80 | 44.20 | 65.50 | 39.40 | 45.45 | 52.09 | 4.09 |
| 2020 | 59.40 | 46.80 | 69.70 | 41.60 | 46.30 | 53.06 | 4.16 |
| 2021 | 63.00 | 49.40 | 74.10 | 44.10 | 47.17 | 54.05 | 4.23 |
| 2022 | 66.70 | 52.00 | 78.60 | 46.50 | 48.05 | 55.06 | 4.30 |
| 2023 | 70.30 | 54.60 | 83.00 | 48.90 | 48.95 | 56.09 | 4.38 |
| 2024 | 70.20 | 54.50 | 87.50 | 51.30 | 49.87 | 57.14 | 4.45 |
| 2025 | 71.30 | 55.30 | 84.70 | 49.80 | 50.80 | 58.21 | 4.53 |
| 2026 | 74.40 | 57.60 | 88.50 | 51.80 | 51.75 | 59.30 | 4.61 |
| 2027 | 77.40 | 59.70 | 92.30 | 53.90 | 52.72 | 60.41 | 4.69 |
| 2028 | 78.90 | 60.90 | 94.10 | 55.00 | 53.70 | 61.54 | 4.77 |
| 2029 | 80.50 | 62.10 | 96.00 | 56.10 | 54.71 | 62.69 | 4.86 |
| 2030 | 82.10 | 63.30 | 97.90 | 57.20 | 55.73 | 63.86 | 4.94 |
| 2031 | 83.70 | 64.60 | 99.90 | 58.30 | 56.77 | 65.05 | 5.03 |
| 2032 | 85.40 | 65.90 | 101.90 | 59.50 | 57.83 | 66.27 | 5.11 |
| 2033 | 87.10 | 67.20 | 103.90 | 60.70 | 58.91 | 67.51 | 5.20 |
| 2034 | 88.90 | 68.50 | 106.00 | 61.90 | 60.02 | 68.77 | 5.29 |
| 2035 | 90.60 | 69.90 | 108.10 | 63.10 | 61.14 | 70.06 | 5.38 |
| 2036 | 92.50 | 71.30 | 110.30 | 64.40 | 62.28 | 71.37 | 5.48 |
| 2037 | 94.30 | 72.70 | 112.50 | 65.70 | 63.45 | 72.70 | 5.57 |
| 2038 | 96.20 | 74.20 | 114.70 | 67.00 | 64.63 | 74.06 | 5.67 |
| 2039 | 98.10 | 75.70 | 117.00 | 68.30 | 65.84 | 75.45 | 5.77 |
| 2040 | 99.93 | 77.12 | 119.19 | 69.58 | 67.07 | 76.86 | 5.87 |
| 2041 | 101.80 | 78.56 | 121.42 | 70.88 | 68.33 | 78.30 | 5.97 |
| 2042 | 103.71 | 80.03 | 123.69 | 72.20 | 69.60 | 79.76 | 6.08 |
| 2043 | 105.65 | 81.52 | 126.00 | 73.55 | 70.91 | 81.25 | 6.18 |
| 2044 | 107.62 | 83.05 | 128.36 | 74.93 | 72.23 | 82.77 | 6.29 |
| 2045 | 109.63 | 84.60 | 130.76 | 76.33 | 73.58 | 84.32 | 6.40 |

Other General Modeling Assumptions

| | |
|--|--------|
| Avoided Cost Inflation Rate <i>(BLS Statistic)</i> | 1.87% |
| Residential Line Loss Multiplier | 1.0799 |
| Commercial Line Loss Multiplier | 1.0799 |
| Industrial Line Loss Multiplier | 1.0799 |

FIRST ENERGY – PPL

Avoided Cost Assumptions

| Year | Avoided Energy | | | | Avoided Capacity \$/kW-Yr | Avoided T&D \$/kW-Yr | Avoided Transmission Only \$/kW-Yr |
|------|----------------|-----------------|-------------|-----------------|------------------------------|-------------------------|---------------------------------------|
| | Winter Peak | Winter Off-Peak | Summer Peak | Summer Off Peak | | | |
| | \$/MWh | \$/MWh | \$/MWh | \$/MWh | | | |
| 2016 | 48.333 | 36.748 | 51.006 | 30.487 | 43.48 | 20.10 | 0.00 |
| 2017 | 47.506 | 37.046 | 50.563 | 30.266 | 43.80 | 20.48 | 0.00 |
| 2018 | 48.54 | 38.56 | 50.91 | 30.83 | 44.62 | 20.86 | 0.00 |
| 2019 | 63.34 | 45.21 | 40.28 | 30.04 | 45.45 | 21.25 | 0.00 |
| 2020 | 64.66 | 46.08 | 41.67 | 30.94 | 46.30 | 21.65 | 0.00 |
| 2021 | 65.90 | 46.88 | 42.96 | 31.78 | 47.17 | 22.05 | 0.00 |
| 2022 | 67.03 | 47.62 | 44.11 | 32.53 | 48.05 | 22.46 | 0.00 |
| 2023 | 67.95 | 48.22 | 44.98 | 33.09 | 48.95 | 22.88 | 0.00 |
| 2024 | 68.52 | 48.59 | 45.54 | 33.46 | 49.87 | 23.31 | 0.00 |
| 2025 | 78.54 | 54.88 | 74.67 | 52.37 | 50.80 | 23.75 | 0.00 |
| 2026 | 84.54 | 58.79 | 80.89 | 56.42 | 51.75 | 24.19 | 0.00 |
| 2027 | 89.41 | 61.96 | 86.76 | 60.24 | 52.72 | 24.64 | 0.00 |
| 2028 | 94.76 | 65.44 | 91.02 | 63.01 | 53.70 | 25.10 | 0.00 |
| 2029 | 101.39 | 69.75 | 97.04 | 66.92 | 54.71 | 25.57 | 0.00 |
| 2030 | 107.52 | 73.74 | 104.04 | 71.48 | 55.73 | 26.05 | 0.00 |
| 2031 | 110.93 | 75.96 | 109.64 | 75.12 | 56.77 | 26.54 | 0.00 |
| 2032 | 108.04 | 74.09 | 111.72 | 76.48 | 57.83 | 27.04 | 0.00 |
| 2033 | 108.12 | 74.14 | 105.81 | 72.63 | 58.91 | 27.54 | 0.00 |
| 2034 | 111.17 | 76.12 | 109.53 | 75.06 | 60.02 | 28.06 | 0.00 |
| 2035 | 114.98 | 78.59 | 112.17 | 76.77 | 61.14 | 28.58 | 0.00 |
| 2036 | 119.94 | 81.83 | 116.68 | 79.71 | 62.28 | 29.12 | 0.00 |
| 2037 | 124.87 | 85.03 | 121.93 | 83.12 | 63.45 | 29.66 | 0.00 |
| 2038 | 130.06 | 88.41 | 126.65 | 86.20 | 64.63 | 30.21 | 0.00 |
| 2039 | 138.80 | 94.09 | 132.12 | 89.76 | 65.84 | 30.78 | 0.00 |
| 2040 | 141.40 | 95.85 | 134.59 | 91.43 | 67.07 | 31.36 | 0.00 |
| 2041 | 144.04 | 97.64 | 137.11 | 93.14 | 68.33 | 31.94 | 0.00 |
| 2042 | 146.73 | 99.47 | 139.68 | 94.89 | 69.60 | 32.54 | 0.00 |
| 2043 | 149.48 | 101.33 | 142.29 | 96.66 | 70.91 | 33.15 | 0.00 |
| 2044 | 152.27 | 103.22 | 144.95 | 98.47 | 72.23 | 33.77 | 0.00 |
| 2045 | 155.12 | 105.15 | 147.66 | 100.31 | 73.58 | 34.40 | 0.00 |

Other General Modeling Assumptions

| | |
|--|--------|
| Avoided Cost Inflation Rate <i>(BLS Statistic)</i> | 1.87% |
| Residential Line Loss Multiplier | 1.0910 |
| Commercial Line Loss Multiplier | 1.0790 |
| Industrial Line Loss Multiplier | 1.0790 |

APPENDIX C

EXAMPLES OF PROGRAM WITH HIGH MARKET ADOPTION

EXAMPLES OF PROGRAMS WITH HIGH MARKET ADOPTION

GDS collected information on electric and gas energy efficiency programs conducted during the past three decades where high penetration has been achieved. Ten examples of such programs are listed below.

1. The US EPA Energy Star website reports that the following appliances and electronics have an Energy Star market penetration in 2013 above 70 percent:
 - Commercial ovens (73%)
 - Commercial refrigerators and freezers (72%)
 - Dehumidifiers (99%)
 - Dishwashers (90%)
 - Imaging Equipment (81%)
 - LCD Monitors (82%)
 - Multifunction Devices & Printers (90%)
 - Notebook Computers (74%)
 - Refrigerators (74%)
 - Room Air Conditioners (72%)
 - Set Top Boxes (89%)
 - Televisions (84%)
 - Water Coolers (86%)
2. The Residential Multifamily/Low-Income Program in Vermont achieved a market share of over 90% for new construction and nearly 30% for existing housing.¹
3. A 2014 residential baseline study of 490 randomly selected homes conducted for the State of Pennsylvania found that 89% of homes in the state have at least one CFL.
4. A 2010 residential baseline study for the State of Maryland found that 81% of homes have at least one CFL installed.
5. The residential water heater bundle-up program conducted by Central Maine Power Company achieved a market penetration of over 80% of residential electric water heaters in the Company's service area. This program has been operated by CMP since the 1980s.
6. In the State of Wisconsin, a natural gas energy efficiency program to promote high efficiency gas furnaces attained a penetration rate of over 90%.²
7. KeySpan Energy Delivery's high efficiency residential furnace program achieved a market share of approximately 70% over nine years (1997-2005).³
8. Many states in the US and provinces in Canada have replaced 100% of incandescent traffic signals with LED traffic signals.⁴
9. In 1985 the Hood River project performed a community-wide direct install, primarily weatherization effort. There was no cost to customers. The project sought to achieve 100% participation at a time when typical participation rates in utility-sponsored conservation

¹ York, Dan; Kushler, Martin; America's Best: Profiles of America's Leading Energy Efficiency Programs," published by the American Council for an Energy Efficient Economy, March 2003. Report Number U032.

² Hewitt, David. C., "The Elements of Sustainability", paper presented at the 2000 ACEEE Summer Study on Energy Efficiency in Buildings. Washington: American Council for an Energy Efficient Economy. Pages 6.179-6.190. The Wisconsin furnaces case study data can be found in the 2000 ACEEE Summer Study Proceedings on pages 6.185-6.186.

³ American Council for an Energy Efficient Economy, "America's Best Gas Energy Efficiency Programs", 2003.

⁴ Increasing Market Penetration of LED Traffic Signals in New York State: Review of Articles and Information on LED Traffic Signals, published by the *Lighting Research Center, Rensselaer Polytechnic Institute American Council for an Energy Efficient Economy*, Prepared for the New York State Energy Research and Development Authority, Final July 20, 2000.

programs were on the order of 3% to 6%. Overall 91% of homes agreed to the energy audit and 85% of homes chose to implement some combination of efficiency measures. This project is still commonly referenced as the basis for maximum achievable potential in the Pacific Northwest.

APPENDIX D

RESIDENTIAL SECTOR ASSUMPTIONS BY EDC

Measure Assumptions - Duquesne

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|---|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|---|-----------------|---------------|-------------------|
| 1000 | Lighting | | | | | | | | | | | | | | |
| 1001 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | NLI | ROB | 40.0 | 65.8% | 26.3 | 0.030 | 0.10 | 5 | \$0.61 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1628.6% | 0.0% | 12.23 |
| 1002 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | NLI | ROB | 72.6 | 69.7% | 50.6 | 0.058 | 0.10 | 5 | \$1.64 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 310.2% | 0.0% | 7.68 |
| 1003 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | NLI | ROB | 40.0 | 78.5% | 31.4 | 0.036 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1628.6% | 0.0% | 4.45 |
| 1004 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | NLI | ROB | 72.6 | 76.3% | 55.4 | 0.063 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 310.2% | 0.0% | 3.53 |
| 1005 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | NLI | ROB | 37.0 | 75.0% | 27.7 | 0.032 | 0.10 | 5 | \$2.71 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1054.8% | 0.0% | 2.85 |
| 1006 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | NLI | ROB | 69.4 | 68.3% | 47.4 | 0.054 | 0.10 | 5 | \$5.26 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 0.0% | 0.0% | 2.55 |
| 1007 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | NLI | ROB | 37.0 | 83.5% | 30.9 | 0.035 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1054.8% | 0.0% | 3.19 |
| 1008 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | NLI | ROB | 69.4 | 75.2% | 52.2 | 0.060 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 0.0% | 0.0% | 2.95 |
| 1009 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | SFD | NLI | ROB | 40.0 | 78.5% | 31.4 | 0.036 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | 963.6% | 100.0% | 4.45 |
| 1010 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | SFD | NLI | ROB | 72.6 | 76.3% | 55.4 | 0.063 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | 183.5% | 100.0% | 3.53 |
| 1011 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | SFD | NLI | ROB | 37.0 | 83.5% | 30.9 | 0.035 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | 39.4% | 100.0% | 3.19 |
| 1012 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | SFD | NLI | ROB | 69.4 | 75.2% | 52.2 | 0.060 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | 0.0% | 100.0% | 2.95 |
| 1013 | CFL Reflector Replacing 65W/75W Reflector | SFD | NLI | ROB | 62.1 | 74.4% | 46.3 | 0.053 | 0.10 | 5 | \$2.15 | CFL Reflector Replacing 65W/75W Reflector | 467.5% | 0.0% | 7.27 |
| 1014 | LED Reflector Replacing 65W/75W Reflector | SFD | NLI | ROB | 62.1 | 83.8% | 52.1 | 0.060 | 0.10 | 15 | \$9.48 | LED Reflector Replacing 65W/75W Reflector | 467.5% | 0.0% | 5.97 |
| 1015 | LED Reflector Replacing CFL Reflector | SFD | NLI | ROB | 62.1 | 83.8% | 52.1 | 0.060 | 0.10 | 15 | \$9.48 | LED Reflector Replacing CFL Reflector | 37.7% | 100.0% | 5.97 |
| 1016 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | SFD | NLI | ROB | 48.2 | 69.6% | 33.5 | 0.037 | 0.10 | 5 | \$1.35 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | 434.6% | 0.0% | 7.66 |
| 1017 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | SFD | NLI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | 434.6% | 0.0% | 4.76 |
| 1018 | Exterior LED Bulb Replacing Exterior CFL Bulb | SFD | NLI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior CFL Bulb | 117.0% | 100.0% | 4.76 |
| 1019 | Residential Occupancy Sensors | SFD | ALL | Retrofit | 96.5 | 30.0% | 28.9 | 0.028 | 0.10 | 10 | \$63.50 | Residential Occupancy Sensors | 150.0% | 5.0% | 0.21 |
| 1020 | Electroluminescent Nightlight | SFD | NLI | ROB | 29.7 | 99.1% | 29.5 | 0.007 | 0.00 | 8 | \$1.92 | Replaces standard nightlighting with electroluminescent nightlight | 79.0% | 32.0% | 4.67 |
| 1021 | LED Nightlight | SFD | NLI | ROB | 29.7 | 85.7% | 25.5 | 0.006 | 0.00 | 8 | \$2.51 | Replaces standard nightlighting with LED nightlight | 79.0% | 32.0% | 3.09 |
| 1022 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | LI | ROB | 40.0 | 65.8% | 26.3 | 0.030 | 0.10 | 5 | \$0.61 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1628.6% | 0.0% | 12.23 |
| 1023 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | LI | ROB | 72.6 | 69.7% | 50.6 | 0.058 | 0.10 | 5 | \$1.64 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 310.2% | 0.0% | 7.68 |
| 1024 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | LI | ROB | 40.0 | 78.5% | 31.4 | 0.036 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1628.6% | 0.0% | 4.45 |
| 1025 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | LI | ROB | 72.6 | 76.3% | 55.4 | 0.063 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 310.2% | 0.0% | 3.53 |
| 1026 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | LI | ROB | 37.0 | 75.0% | 27.7 | 0.032 | 0.10 | 5 | \$2.71 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1054.8% | 0.0% | 2.85 |
| 1027 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | LI | ROB | 69.4 | 68.3% | 47.4 | 0.054 | 0.10 | 5 | \$5.26 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 0.0% | 0.0% | 2.55 |
| 1028 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | LI | ROB | 37.0 | 83.5% | 30.9 | 0.035 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1054.8% | 0.0% | 3.19 |
| 1029 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | LI | ROB | 69.4 | 75.2% | 52.2 | 0.060 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 0.0% | 0.0% | 2.95 |
| 1030 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | SFD | LI | ROB | 40.0 | 78.5% | 31.4 | 0.036 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | 963.6% | 100.0% | 4.45 |
| 1031 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | SFD | LI | ROB | 72.6 | 76.3% | 55.4 | 0.063 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | 183.5% | 100.0% | 3.53 |
| 1032 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | SFD | LI | ROB | 37.0 | 83.5% | 30.9 | 0.035 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | 39.4% | 100.0% | 3.19 |
| 1033 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | SFD | LI | ROB | 69.4 | 75.2% | 52.2 | 0.060 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | 0.0% | 100.0% | 2.95 |
| 1034 | CFL Reflector Replacing 65W/75W Reflector | SFD | LI | ROB | 62.1 | 74.4% | 46.3 | 0.053 | 0.10 | 5 | \$2.15 | CFL Reflector Replacing 65W/75W Reflector | 467.5% | 0.0% | 7.27 |
| 1035 | LED Reflector Replacing 65W/75W Reflector | SFD | LI | ROB | 62.1 | 83.8% | 52.1 | 0.060 | 0.10 | 15 | \$9.48 | LED Reflector Replacing 65W/75W Reflector | 467.5% | 0.0% | 5.97 |
| 1036 | LED Reflector Replacing CFL Reflector | SFD | LI | ROB | 62.1 | 83.8% | 52.1 | 0.060 | 0.10 | 15 | \$9.48 | LED Reflector Replacing CFL Reflector | 37.7% | 100.0% | 5.97 |
| 1037 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | SFD | LI | ROB | 48.2 | 69.6% | 33.5 | 0.037 | 0.10 | 5 | \$1.35 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | 434.6% | 0.0% | 7.66 |
| 1038 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | SFD | LI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | 434.6% | 0.0% | 4.76 |
| 1039 | Exterior LED Bulb Replacing Exterior CFL Bulb | SFD | LI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior CFL Bulb | 117.0% | 100.0% | 4.76 |
| 1040 | LED Nightlight | SFD | LI | ROB | 29.7 | 85.7% | 25.5 | 0.006 | 0.00 | 8 | \$2.51 | Replaces standard nightlighting with LED nightlight | 79.0% | 32.0% | 3.09 |

Measure Assumptions - Duquesne

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|---|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|---|-----------------|---------------|-------------------|
| 1041 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | ALL | NC | 40.0 | 65.8% | 26.3 | 0.030 | 0.10 | 5 | \$0.61 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 2597.4% | 0.0% | 12.23 |
| 1042 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | ALL | NC | 72.6 | 69.7% | 50.6 | 0.058 | 0.10 | 5 | \$1.64 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 494.7% | 0.0% | 7.68 |
| 1043 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | ALL | NC | 40.0 | 78.5% | 31.4 | 0.036 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 2597.4% | 0.0% | 4.45 |
| 1044 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | ALL | NC | 72.6 | 76.3% | 55.4 | 0.063 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 494.7% | 0.0% | 3.53 |
| 1045 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | ALL | NC | 37.0 | 75.0% | 27.7 | 0.032 | 0.10 | 5 | \$2.71 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1094.1% | 0.0% | 2.85 |
| 1046 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | ALL | NC | 69.4 | 68.3% | 47.4 | 0.054 | 0.10 | 5 | \$5.26 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 0.0% | 0.0% | 2.55 |
| 1047 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | ALL | NC | 37.0 | 83.5% | 30.9 | 0.035 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1094.1% | 0.0% | 3.19 |
| 1048 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | ALL | NC | 69.4 | 75.2% | 52.2 | 0.060 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 0.0% | 0.0% | 2.95 |
| 1049 | CFL Reflector Replacing 65W/75W Reflector | SFD | ALL | NC | 62.1 | 74.4% | 46.3 | 0.053 | 0.10 | 5 | \$2.15 | CFL Reflector Replacing 65W/75W Reflector | 570.9% | 0.0% | 7.27 |
| 1050 | LED Reflector Replacing 65W/75W Reflector | SFD | ALL | NC | 62.1 | 83.8% | 52.1 | 0.060 | 0.10 | 15 | \$9.48 | LED Reflector Replacing 65W/75W Reflector | 570.9% | 0.0% | 5.97 |
| 1051 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | SFD | ALL | NC | 48.2 | 69.6% | 33.5 | 0.037 | 0.10 | 5 | \$1.35 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | 560.0% | 0.0% | 7.66 |
| 1052 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | SFD | ALL | NC | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | 560.0% | 0.0% | 4.76 |
| 1053 | Residential Occupancy Sensors | SFD | ALL | NC | 96.5 | 30.0% | 28.9 | 0.028 | 0.10 | 10 | \$63.50 | Residential Occupancy Sensors | 150.0% | 0.0% | 0.21 |
| 1054 | Electroluminescent Nightlight | SFD | ALL | NC | 29.7 | 99.1% | 29.5 | 0.007 | 0.00 | 8 | \$1.92 | Replaces standard nightlighting with electroluminescent nightlight | 79.0% | 0.0% | 4.67 |
| 1055 | LED Nightlight | SFD | ALL | NC | 29.7 | 85.7% | 25.5 | 0.006 | 0.00 | 8 | \$2.51 | Replaces standard nightlighting with LED nightlight | 79.0% | 0.0% | 3.09 |
| 1056 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | NLI | ROB | 40.0 | 65.8% | 26.3 | 0.030 | 0.10 | 5 | \$0.61 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1094.2% | 0.0% | 12.23 |
| 1057 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | NLI | ROB | 72.6 | 69.7% | 50.6 | 0.058 | 0.10 | 5 | \$1.64 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 163.5% | 0.0% | 7.68 |
| 1058 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | NLI | ROB | 40.0 | 78.5% | 31.4 | 0.036 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1094.2% | 0.0% | 4.45 |
| 1059 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | NLI | ROB | 72.6 | 76.3% | 55.4 | 0.063 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 163.5% | 0.0% | 3.53 |
| 1060 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | NLI | ROB | 37.0 | 75.0% | 27.7 | 0.032 | 0.10 | 5 | \$2.71 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 565.0% | 0.0% | 2.85 |
| 1061 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | NLI | ROB | 69.4 | 68.3% | 47.4 | 0.054 | 0.10 | 5 | \$5.26 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 23.5% | 0.0% | 2.55 |
| 1062 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | NLI | ROB | 37.0 | 83.5% | 30.9 | 0.035 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 565.0% | 0.0% | 3.19 |
| 1063 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | NLI | ROB | 69.4 | 75.2% | 52.2 | 0.060 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 23.5% | 0.0% | 2.95 |
| 1064 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | SFA | NLI | ROB | 40.0 | 78.5% | 31.4 | 0.036 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | 647.5% | 100.0% | 4.45 |
| 1065 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | SFA | NLI | ROB | 72.6 | 76.3% | 55.4 | 0.063 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | 96.7% | 100.0% | 3.53 |
| 1066 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | SFA | NLI | ROB | 37.0 | 83.5% | 30.9 | 0.035 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | 21.1% | 100.0% | 3.19 |
| 1067 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | SFA | NLI | ROB | 69.4 | 75.2% | 52.2 | 0.060 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | 0.9% | 100.0% | 2.95 |
| 1068 | CFL Reflector Replacing 65W/75W Reflector | SFA | NLI | ROB | 62.1 | 74.4% | 46.3 | 0.053 | 0.10 | 5 | \$2.15 | CFL Reflector Replacing 65W/75W Reflector | 238.1% | 0.0% | 7.27 |
| 1069 | LED Reflector Replacing 65W/75W Reflector | SFA | NLI | ROB | 62.1 | 83.8% | 52.1 | 0.060 | 0.10 | 15 | \$9.48 | LED Reflector Replacing 65W/75W Reflector | 238.1% | 0.0% | 5.97 |
| 1070 | LED Reflector Replacing CFL Reflector | SFA | NLI | ROB | 62.1 | 83.8% | 52.1 | 0.060 | 0.10 | 15 | \$9.48 | LED Reflector Replacing CFL Reflector | 19.2% | 100.0% | 5.97 |
| 1071 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | SFA | NLI | ROB | 48.2 | 69.6% | 33.5 | 0.037 | 0.10 | 5 | \$1.35 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | 124.2% | 0.0% | 7.66 |
| 1072 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | SFA | NLI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | 124.2% | 0.0% | 4.76 |
| 1073 | Exterior LED Bulb Replacing Exterior CFL Bulb | SFA | NLI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior CFL Bulb | 33.4% | 100.0% | 4.76 |
| 1074 | Residential Occupancy Sensors | SFA | ALL | Retrofit | 96.5 | 30.0% | 28.9 | 0.028 | 0.10 | 10 | \$63.50 | Residential Occupancy Sensors | 150.0% | 5.0% | 0.21 |
| 1075 | Electroluminescent Nightlight | SFA | NLI | ROB | 29.7 | 99.1% | 29.5 | 0.007 | 0.00 | 8 | \$1.92 | Replaces standard nightlighting with electroluminescent nightlight | 42.0% | 32.0% | 4.67 |
| 1076 | LED Nightlight | SFA | NLI | ROB | 29.7 | 85.7% | 25.5 | 0.006 | 0.00 | 8 | \$2.51 | Replaces standard nightlighting with LED nightlight | 42.0% | 32.0% | 3.09 |
| 1077 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | LI | ROB | 40.0 | 65.8% | 26.3 | 0.030 | 0.10 | 5 | \$0.61 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1094.2% | 0.0% | 12.23 |
| 1078 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | LI | ROB | 72.6 | 69.7% | 50.6 | 0.058 | 0.10 | 5 | \$1.64 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 163.5% | 0.0% | 7.68 |
| 1079 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | LI | ROB | 40.0 | 78.5% | 31.4 | 0.036 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1094.2% | 0.0% | 4.45 |

Measure Assumptions - Duquesne

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|---|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|---|-----------------|---------------|-------------------|
| 1080 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | LI | ROB | 72.6 | 76.3% | 55.4 | 0.063 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 163.5% | 0.0% | 3.53 |
| 1081 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | LI | ROB | 37.0 | 75.0% | 27.7 | 0.032 | 0.10 | 5 | \$2.71 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 565.0% | 0.0% | 2.85 |
| 1082 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | LI | ROB | 69.4 | 68.3% | 47.4 | 0.054 | 0.10 | 5 | \$5.26 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 23.5% | 0.0% | 2.55 |
| 1083 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | LI | ROB | 37.0 | 83.5% | 30.9 | 0.035 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 565.0% | 0.0% | 3.19 |
| 1084 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | LI | ROB | 69.4 | 75.2% | 52.2 | 0.060 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 23.5% | 0.0% | 2.95 |
| 1085 | Standard LED Replacing Standard CFL (≥ 75W Equiv.) | SFA | LI | ROB | 40.0 | 78.5% | 31.4 | 0.036 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | 647.5% | 100.0% | 4.45 |
| 1086 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | SFA | LI | ROB | 72.6 | 76.3% | 55.4 | 0.063 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | 96.7% | 100.0% | 3.53 |
| 1087 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | SFA | LI | ROB | 37.0 | 83.5% | 30.9 | 0.035 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | 21.1% | 100.0% | 3.19 |
| 1088 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | SFA | LI | ROB | 69.4 | 75.2% | 52.2 | 0.060 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | 0.9% | 100.0% | 2.95 |
| 1089 | CFL Reflector Replacing 65W/75W Reflector | SFA | LI | ROB | 62.1 | 74.4% | 46.3 | 0.053 | 0.10 | 5 | \$2.15 | CFL Reflector Replacing 65W/75W Reflector | 238.1% | 0.0% | 7.27 |
| 1090 | LED Reflector Replacing 65W/75W Reflector | SFA | LI | ROB | 62.1 | 83.8% | 52.1 | 0.060 | 0.10 | 15 | \$9.48 | LED Reflector Replacing 65W/75W Reflector | 238.1% | 0.0% | 5.97 |
| 1091 | LED Reflector Replacing CFL Reflector | SFA | LI | ROB | 62.1 | 83.8% | 52.1 | 0.060 | 0.10 | 15 | \$9.48 | LED Reflector Replacing CFL Reflector | 19.2% | 100.0% | 5.97 |
| 1092 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | SFA | LI | ROB | 48.2 | 69.6% | 33.5 | 0.037 | 0.10 | 5 | \$1.35 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | 124.2% | 0.0% | 7.66 |
| 1093 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | SFA | LI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | 124.2% | 0.0% | 4.76 |
| 1094 | Exterior LED Bulb Replacing Exterior CFL Bulb | SFA | LI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior CFL Bulb | 33.4% | 100.0% | 4.76 |
| 1095 | LED Nightlight | SFA | LI | ROB | 29.7 | 85.7% | 25.5 | 0.006 | 0.00 | 8 | \$2.51 | Replaces standard nightlighting with LED nightlight | 42.0% | 32.0% | 3.09 |
| 1096 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | ALL | NC | 40.0 | 65.8% | 26.3 | 0.030 | 0.10 | 5 | \$0.61 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1745.2% | 0.0% | 12.23 |
| 1097 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | ALL | NC | 72.6 | 69.7% | 50.6 | 0.058 | 0.10 | 5 | \$1.64 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 260.8% | 0.0% | 7.68 |
| 1098 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | ALL | NC | 40.0 | 78.5% | 31.4 | 0.036 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1745.2% | 0.0% | 4.45 |
| 1099 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | ALL | NC | 72.6 | 76.3% | 55.4 | 0.063 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 260.8% | 0.0% | 3.53 |
| 1100 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | ALL | NC | 37.0 | 75.0% | 27.7 | 0.032 | 0.10 | 5 | \$2.71 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 586.1% | 0.0% | 2.85 |
| 1101 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | ALL | NC | 69.4 | 68.3% | 47.4 | 0.054 | 0.10 | 5 | \$5.26 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 24.4% | 0.0% | 2.55 |
| 1102 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | ALL | NC | 37.0 | 83.5% | 30.9 | 0.035 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 586.1% | 0.0% | 3.19 |
| 1103 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | ALL | NC | 69.4 | 75.2% | 52.2 | 0.060 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 24.4% | 0.0% | 2.95 |
| 1104 | CFL Reflector Replacing 65W/75W Reflector | SFA | ALL | NC | 62.1 | 74.4% | 46.3 | 0.053 | 0.10 | 5 | \$2.15 | CFL Reflector Replacing 65W/75W Reflector | 290.7% | 0.0% | 7.27 |
| 1105 | LED Reflector Replacing 65W/75W Reflector | SFA | ALL | NC | 62.1 | 83.8% | 52.1 | 0.060 | 0.10 | 15 | \$9.48 | LED Reflector Replacing 65W/75W Reflector | 290.7% | 0.0% | 5.97 |
| 1106 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | SFA | ALL | NC | 48.2 | 69.6% | 33.5 | 0.037 | 0.10 | 5 | \$1.35 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | 160.0% | 0.0% | 7.66 |
| 1107 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | SFA | ALL | NC | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | 124.2% | 0.0% | 4.76 |
| 1108 | Residential Occupancy Sensors | SFA | ALL | NC | 96.5 | 30.0% | 28.9 | 0.028 | 0.10 | 10 | \$63.50 | Residential Occupancy Sensors | 150.0% | 0.0% | 0.21 |
| 1109 | Electroluminescent Nightlight | SFA | ALL | NC | 29.7 | 99.1% | 29.5 | 0.007 | 0.00 | 8 | \$1.92 | Replaces standard nightlighting with electroluminescent nightlight | 42.0% | 0.0% | 4.67 |
| 1110 | LED Nightlight | SFA | ALL | NC | 29.7 | 85.7% | 25.5 | 0.006 | 0.00 | 8 | \$2.51 | Replaces standard nightlighting with LED nightlight | 42.0% | 0.0% | 3.09 |
| 1111 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | NLI | ROB | 40.0 | 65.8% | 26.3 | 0.030 | 0.10 | 5 | \$0.61 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 684.0% | 0.0% | 12.23 |
| 1112 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | NLI | ROB | 72.6 | 69.7% | 50.6 | 0.058 | 0.10 | 5 | \$1.64 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 111.4% | 0.0% | 7.68 |
| 1113 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | NLI | ROB | 40.0 | 78.5% | 31.4 | 0.036 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 684.0% | 0.0% | 4.45 |
| 1114 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | NLI | ROB | 72.6 | 76.3% | 55.4 | 0.063 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 111.4% | 0.0% | 3.53 |
| 1115 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | NLI | ROB | 37.0 | 75.0% | 27.7 | 0.032 | 0.10 | 5 | \$2.71 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 242.1% | 0.0% | 2.85 |
| 1116 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | NLI | ROB | 69.4 | 68.3% | 47.4 | 0.054 | 0.10 | 5 | \$5.26 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 2.4% | 0.0% | 2.55 |
| 1117 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | NLI | ROB | 37.0 | 83.5% | 30.9 | 0.035 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 242.1% | 0.0% | 3.19 |
| 1118 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | NLI | ROB | 69.4 | 75.2% | 52.2 | 0.060 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 2.4% | 0.0% | 2.95 |

Measure Assumptions - Duquesne

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|---|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|---|-----------------|---------------|-------------------|
| 1119 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | MF | NLI | ROB | 40.0 | 78.5% | 31.4 | 0.036 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | 404.8% | 100.0% | 4.45 |
| 1120 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | MF | NLI | ROB | 72.6 | 76.3% | 55.4 | 0.063 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | 65.9% | 100.0% | 3.53 |
| 1121 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | MF | NLI | ROB | 37.0 | 83.5% | 30.9 | 0.035 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | 9.0% | 100.0% | 3.19 |
| 1122 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | MF | NLI | ROB | 69.4 | 75.2% | 52.2 | 0.060 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | 0.1% | 100.0% | 2.95 |
| 1123 | CFL Reflector Replacing 65W/75W Reflector | MF | NLI | ROB | 62.1 | 74.4% | 46.3 | 0.053 | 0.10 | 5 | \$2.15 | CFL Reflector Replacing 65W/75W Reflector | 51.9% | 0.0% | 7.27 |
| 1124 | LED Reflector Replacing 65W/75W Reflector | MF | NLI | ROB | 62.1 | 83.8% | 52.1 | 0.060 | 0.10 | 15 | \$9.48 | LED Reflector Replacing 65W/75W Reflector | 51.9% | 0.0% | 5.97 |
| 1125 | LED Reflector Replacing CFL Reflector | MF | NLI | ROB | 62.1 | 83.8% | 52.1 | 0.060 | 0.10 | 15 | \$9.48 | LED Reflector Replacing CFL Reflector | 4.2% | 100.0% | 5.97 |
| 1126 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | MF | NLI | ROB | 48.2 | 69.6% | 33.5 | 0.037 | 0.10 | 5 | \$1.35 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | 62.1% | 0.0% | 7.66 |
| 1127 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | MF | NLI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | 62.1% | 0.0% | 4.76 |
| 1128 | Exterior LED Bulb Replacing Exterior CFL Bulb | MF | NLI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior CFL Bulb | 16.7% | 100.0% | 4.76 |
| 1129 | Residential Occupancy Sensors | MF | ALL | Retrofit | 96.5 | 30.0% | 28.9 | 0.028 | 0.10 | 10 | \$63.50 | Residential Occupancy Sensors | 100.0% | 5.0% | 0.21 |
| 1130 | Electroluminescent Nightlight | MF | NLI | ROB | 29.7 | 99.1% | 29.5 | 0.007 | 0.00 | 8 | \$1.92 | Replaces standard nightlighting with electroluminescent nightlight | 18.0% | 32.0% | 4.67 |
| 1131 | LED Nightlight | MF | NLI | ROB | 29.7 | 85.7% | 25.5 | 0.006 | 0.00 | 8 | \$2.51 | Replaces standard nightlighting with LED nightlight | 18.0% | 32.0% | 3.09 |
| 1132 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | LI | ROB | 40.0 | 65.8% | 26.3 | 0.030 | 0.10 | 5 | \$0.61 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 684.0% | 0.0% | 12.23 |
| 1133 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | LI | ROB | 72.6 | 69.7% | 50.6 | 0.058 | 0.10 | 5 | \$1.64 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 111.4% | 0.0% | 7.68 |
| 1134 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | LI | ROB | 40.0 | 78.5% | 31.4 | 0.036 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 684.0% | 0.0% | 4.45 |
| 1135 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | LI | ROB | 72.6 | 76.3% | 55.4 | 0.063 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 111.4% | 0.0% | 3.53 |
| 1136 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | LI | ROB | 37.0 | 75.0% | 27.7 | 0.032 | 0.10 | 5 | \$2.71 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 242.1% | 0.0% | 2.85 |
| 1137 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | LI | ROB | 69.4 | 68.3% | 47.4 | 0.054 | 0.10 | 5 | \$5.26 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 2.4% | 0.0% | 2.55 |
| 1138 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | LI | ROB | 37.0 | 83.5% | 30.9 | 0.035 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 242.1% | 0.0% | 3.19 |
| 1139 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | LI | ROB | 69.4 | 75.2% | 52.2 | 0.060 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 2.4% | 0.0% | 2.95 |
| 1140 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | MF | LI | ROB | 40.0 | 78.5% | 31.4 | 0.036 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | 404.8% | 100.0% | 4.45 |
| 1141 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | MF | LI | ROB | 72.6 | 76.3% | 55.4 | 0.063 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | 65.9% | 100.0% | 3.53 |
| 1142 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | MF | LI | ROB | 37.0 | 83.5% | 30.9 | 0.035 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | 9.0% | 100.0% | 3.19 |
| 1143 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | MF | LI | ROB | 69.4 | 75.2% | 52.2 | 0.060 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | 0.1% | 100.0% | 2.95 |
| 1144 | CFL Reflector Replacing 65W/75W Reflector | MF | LI | ROB | 62.1 | 74.4% | 46.3 | 0.053 | 0.10 | 5 | \$2.15 | CFL Reflector Replacing 65W/75W Reflector | 51.9% | 0.0% | 7.27 |
| 1145 | LED Reflector Replacing 65W/75W Reflector | MF | LI | ROB | 62.1 | 83.8% | 52.1 | 0.060 | 0.10 | 15 | \$9.48 | LED Reflector Replacing 65W/75W Reflector | 51.9% | 0.0% | 5.97 |
| 1146 | LED Reflector Replacing CFL Reflector | MF | LI | ROB | 62.1 | 83.8% | 52.1 | 0.060 | 0.10 | 15 | \$9.48 | LED Reflector Replacing CFL Reflector | 4.2% | 100.0% | 5.97 |
| 1147 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | MF | LI | ROB | 48.2 | 69.6% | 33.5 | 0.037 | 0.10 | 5 | \$1.35 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | 62.1% | 0.0% | 7.66 |
| 1148 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | MF | LI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | 62.1% | 0.0% | 4.76 |
| 1149 | Exterior LED Bulb Replacing Exterior CFL Bulb | MF | LI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior CFL Bulb | 16.7% | 100.0% | 4.76 |
| 1150 | LED Nightlight | MF | LI | ROB | 29.7 | 85.7% | 25.5 | 0.006 | 0.00 | 8 | \$2.51 | Replaces standard nightlighting with LED nightlight | 18.0% | 32.0% | 3.09 |
| 1151 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | ALL | NC | 40.0 | 65.8% | 26.3 | 0.030 | 0.10 | 5 | \$0.61 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1091.0% | 0.0% | 12.23 |
| 1152 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | ALL | NC | 72.6 | 69.7% | 50.6 | 0.058 | 0.10 | 5 | \$1.64 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 177.6% | 0.0% | 7.68 |
| 1153 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | ALL | NC | 40.0 | 78.5% | 31.4 | 0.036 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1091.0% | 0.0% | 4.45 |
| 1154 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | ALL | NC | 72.6 | 76.3% | 55.4 | 0.063 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 177.6% | 0.0% | 3.53 |
| 1155 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | ALL | NC | 37.0 | 75.0% | 27.7 | 0.032 | 0.10 | 5 | \$2.71 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 251.2% | 0.0% | 2.85 |
| 1156 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | ALL | NC | 69.4 | 68.3% | 47.4 | 0.054 | 0.10 | 5 | \$5.26 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 2.5% | 0.0% | 2.55 |
| 1157 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | ALL | NC | 37.0 | 83.5% | 30.9 | 0.035 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 251.2% | 0.0% | 3.19 |
| 1158 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | ALL | NC | 69.4 | 75.2% | 52.2 | 0.060 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 2.5% | 0.0% | 2.95 |
| 1159 | CFL Reflector Replacing 65W/75W Reflector | MF | ALL | NC | 62.1 | 74.4% | 46.3 | 0.053 | 0.10 | 5 | \$2.15 | CFL Reflector Replacing 65W/75W Reflector | 63.4% | 0.0% | 7.27 |
| 1160 | LED Reflector Replacing 65W/75W Reflector | MF | ALL | NC | 62.1 | 83.8% | 52.1 | 0.060 | 0.10 | 15 | \$9.48 | LED Reflector Replacing 65W/75W Reflector | 63.4% | 0.0% | 5.97 |

Measure Assumptions - Duquesne

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|---|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|--|-----------------|---------------|-------------------|
| 1161 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | MF | ALL | NC | 48.2 | 69.6% | 33.5 | 0.037 | 0.10 | 5 | \$1.35 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | 80.0% | 0.0% | 7.66 |
| 1162 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | MF | ALL | NC | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | 80.0% | 0.0% | 4.76 |
| 1163 | Residential Occupancy Sensors | MF | ALL | NC | 96.5 | 30.0% | 28.9 | 0.028 | 0.10 | 10 | \$63.50 | Residential Occupancy Sensors | 150.0% | 0.0% | 0.21 |
| 1164 | Electroluminescent Nightlight | MF | ALL | NC | 29.7 | 99.1% | 29.5 | 0.007 | 0.00 | 8 | \$1.92 | Replaces standard nightlighting with electroluminescent nightlight | 18.0% | 0.0% | 4.67 |
| 1165 | LED Nightlight | MF | ALL | NC | 29.7 | 85.7% | 25.5 | 0.006 | 0.00 | 8 | \$2.51 | Replaces standard nightlighting with LED nightlight | 18.0% | 0.0% | 3.09 |
| 2000 | HVAC Equipment | | | | | | | | | | | | | | |
| 2001 | Central AC Maintenance (10.4 SEER to 11 SEER) | SFD | NLI | Retrofit | 1,770.0 | 1.8% | 32.0 | 0.123 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of central AC units in homes with central air conditioning | 58.2% | 48.0% | 0.40 |
| 2002 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) | SFD | NLI | ROB | 1,445.0 | 8.9% | 129.0 | 0.195 | 0.65 | 14 | \$1,407.82 | Installation of 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 58.2% | 14.0% | 0.12 |
| 2003 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) | SFD | NLI | ROB | 1,445.0 | 12.6% | 182.0 | 0.283 | 0.65 | 14 | \$2,588.05 | Installation of 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 58.2% | 14.0% | 0.09 |
| 2004 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) - with proper sizing | SFD | NLI | ROB | 1,445.0 | 10.6% | 153.0 | 0.250 | 0.65 | 14 | \$1,319.00 | Installation of properly sized 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 58.2% | 14.0% | 0.16 |
| 2005 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) - with proper sizing | SFD | NLI | ROB | 1,445.0 | 14.2% | 205.0 | 0.331 | 0.65 | 14 | \$2,499.23 | Installation of properly sized 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 58.2% | 14.0% | 0.11 |
| 2006 | Air Source Heat Pump Maintenance (12.3 SEER to 13 SEER / 7.3 hspf to 7.7 hspf) | SFD | NLI | Retrofit | 7,133.0 | 6.1% | 433.0 | 0.154 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of air-source heat pump in homes with air-source heat pumps | 1.3% | 57.0% | 1.50 |
| 2007 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 15 SEER / 8.5 hspf) | SFD | NLI | ROB | 6,219.0 | 3.4% | 214.0 | 0.047 | 0.65 | 12 | \$1,116.43 | Installation of 15 SEER / 8.5 hspf instead of standard air-source heat pump in homes with heat pumps | 1.3% | 14.0% | 0.12 |
| 2008 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 16 SEER / 9.0 hspf) | SFD | NLI | ROB | 6,219.0 | 9.1% | 563.0 | 0.087 | 0.65 | 12 | \$1,381.27 | Installation of 16 SEER / 9.0 hspf instead of standard air-source heat pump in homes with heat pumps | 1.3% | 14.0% | 0.24 |
| 2009 | ENERGY STAR Ground Source Heat Pump (14 SEER / 8.0 hspf to 17.1 EER / 3.6 COP) | SFD | NLI | ROB | 6,219.0 | 17.7% | 1,099.0 | 0.362 | 0.65 | 30 | \$12,709.14 | Installation of 17.1 EER / 3.6 COP ground source heat pump instead of standard air-source heat pump in homes with heat pumps | 1.3% | 14.0% | 0.07 |
| 2010 | ENERGY STAR Ground Source Heat Pump (14 SEER / 8.0 hspf to 17.1 EER / 3.6 COP) - with desuperheater | SFD | NLI | ROB | 6,219.0 | 26.8% | 1,666.0 | 0.362 | 0.65 | 30 | \$12,071.37 | Installation of 17.1 EER / 3.6 COP ground source heat pump (with a desuperheater) instead of standard air-source heat pump in homes with heat pumps | 1.3% | 14.0% | 0.10 |
| 2011 | ENERGY STAR Air Source Heat Pump (Elec Furnace / CAC to 16 SEER / 9.0 hspf) | SFD | NLI | ROB | 14,426.0 | 60.8% | 8,770.0 | 0.203 | 0.65 | 12 | \$3,158.48 | Installation of 16 SEER / 9.0 hspf instead of electric furnace in homes with electric furnaces | 1.5% | 0.0% | 1.47 |
| 2012 | ENERGY STAR Ground Source Heat Pump (Electric Furnace / CAC to 17.1 EER / 3.6 COP) - with desuperheater | SFD | NLI | ROB | 14,426.0 | 60.8% | 8,770.0 | 0.203 | 0.65 | 30 | \$17,454.97 | Installation of 17.1 EER / 3.6 COP ground source heat pump (with a desuperheater) instead of electric furnace in homes with electric furnaces | 1.5% | 0.0% | 0.33 |
| 2013 | High Efficiency Furnace Fan (on existing furnace) - electric heating and central AC | SFD | ALL | Retrofit | 14,426.0 | 3.1% | 446.0 | 0.176 | 0.65 | 18 | \$360.00 | Installation of high efficiency furnace fan on existing furnace in homes with electric furnaces | 6.0% | 34.0% | 1.03 |
| 2014 | High Efficiency Furnace Fan (on existing furnace) - non-electric heating and central AC | SFD | ALL | Retrofit | 1,738.0 | 25.7% | 446.0 | 0.176 | 0.65 | 18 | \$360.00 | Installation of high efficiency furnace fan on existing furnace in homes with non-electric furnaces | 55.0% | 34.0% | 1.03 |
| 2015 | Furnace Whistle - electric heating and central AC | SFD | NLI | Retrofit | 11,098.3 | 0.5% | 58.3 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on electric furnaces in homes with electric forced air heating | 6.0% | 10.0% | 59.74 |
| 2016 | Furnace Whistle - non-electric heating and central AC | SFD | NLI | Retrofit | 1,738.0 | 0.9% | 15.4 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on non-electric furnaces in homes with non-electric forced air heating | 57.7% | 10.0% | 33.77 |
| 2017 | Ductless Mini-Split Heat Pump (16 SEER / 9.0 hspf) - replacing baseboard/room AC | SFD | ALL | ROB | 13,948.0 | 62.4% | 8,706.0 | 1.321 | 0.30 | 15 | \$3,570.80 | Installation of a 16 SEER / 9.0 hspf ductless minisplit heat pump to replace baseboard heating in homes with baseboard heating and room air conditioning | 23.1% | 0.0% | 1.66 |
| 2018 | Ductless Mini-Split Air Conditioner (16 SEER) replacing room AC | SFD | ALL | ROB | 1,603.0 | 31.1% | 498.0 | 1.279 | 0.30 | 15 | \$3,570.80 | Installation of a 16 SEER / 9.0 hspf ductless minisplit air conditioner instead of standard room air conditioner in homes with room air conditioning and any form of electric heating other than baseboard heating | 23.1% | 33.0% | 0.17 |
| 2019 | High Efficiency Room Air Conditioner (11 CEER to 12 CEER) | SFD | NLI | ROB | 1,603.0 | 0.5% | 8.1 | 0.061 | 0.30 | 9 | \$40.00 | Installation of a high efficiency room air conditioner instead of standard room air conditioner in homes with room air conditioning and any form of electric heating other than baseboard heating | 52.1% | 33.0% | 0.30 |
| 2020 | Room AC Retirement | SFD | ALL | Retrofit | 1,626.0 | 9.1% | 148.0 | 0.640 | 0.30 | 4 | \$60.00 | Retirement of supplemental room air conditioners (not primary or secondary) in homes with room air conditioners | 20.0% | 0.0% | 1.14 |
| 2021 | Programmable Thermostat (electric heating and air conditioning) | SFD | NLI | Retrofit | 13,064.6 | 3.4% | 448.2 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with electric heating and air conditioning | 8.2% | 63.0% | 3.30 |
| 2022 | Smart Thermostat (electric heating and air conditioning) | SFD | NLI | Retrofit | 13,064.6 | 10.5% | 1,372.2 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with electric heating and air conditioning | 8.2% | 63.0% | 2.59 |
| 2023 | Programmable Thermostat (non-electric heating and air conditioning) | SFD | NLI | Retrofit | 1,738.0 | 2.0% | 34.8 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with non-electric heating and air conditioning | 82.8% | 63.0% | 0.26 |

Measure Assumptions - Duquesne

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|---|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|---|-----------------|---------------|-------------------|
| 2024 | Smart Thermostat (non-electric heating and air conditioning) | SFD | NLI | Retrofit | 1,738.0 | 13.6% | 235.5 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with non-electric heating and air conditioning | 82.8% | 63.0% | 0.45 |
| 2025 | Residential Whole House Fan | SFD | ALL | Retrofit | 1,738.0 | 11.4% | 199.0 | 0.000 | 0.65 | 15 | \$533.86 | Installation of residential whole house fan in homes with air conditioning | 91.0% | 9.1% | 0.24 |
| 2026 | Central AC Maintenance (10.4 SEER to 11 SEER) | SFD | LI | Retrofit | 1,770.0 | 1.8% | 32.0 | 0.123 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of central AC units in homes with central air conditioning | 58.2% | 48.0% | 0.40 |
| 2027 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) | SFD | LI | ROB | 1,445.0 | 8.9% | 129.0 | 0.195 | 0.65 | 14 | \$1,407.82 | Installation of 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 58.2% | 14.0% | 0.12 |
| 2028 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) | SFD | LI | ROB | 1,445.0 | 12.6% | 182.0 | 0.283 | 0.65 | 14 | \$2,588.05 | Installation of 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 58.2% | 14.0% | 0.09 |
| 2029 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) - with proper sizing | SFD | LI | ROB | 1,445.0 | 10.6% | 153.0 | 0.250 | 0.65 | 14 | \$1,319.00 | Installation of properly sized 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 58.2% | 14.0% | 0.16 |
| 2030 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) - with proper sizing | SFD | LI | ROB | 1,445.0 | 14.2% | 205.0 | 0.331 | 0.65 | 14 | \$2,499.23 | Installation of properly sized 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 58.2% | 14.0% | 0.11 |
| 2031 | Air Source Heat Pump Maintenance (12.3 SEER to 13 SEER / 7.3 hspf to 7.7 hspf) | SFD | LI | Retrofit | 7,133.0 | 6.1% | 433.0 | 0.154 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of air-source heat pump in homes with air-source heat pumps | 1.3% | 57.0% | 1.50 |
| 2032 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 15 SEER / 8.5 hspf) | SFD | LI | ROB | 6,219.0 | 3.4% | 214.0 | 0.047 | 0.65 | 12 | \$1,116.43 | Installation of 15 SEER / 8.5 hspf instead of standard air-source heat pump in homes with heat pumps | 1.3% | 14.0% | 0.12 |
| 2033 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 16 SEER / 9.0 hspf) | SFD | LI | ROB | 6,219.0 | 9.1% | 563.0 | 0.087 | 0.65 | 12 | \$1,381.27 | Installation of 16 SEER / 9.0 hspf instead of standard air-source heat pump in homes with heat pumps | 1.3% | 14.0% | 0.24 |
| 2034 | ENERGY STAR Air Source Heat Pump (Elec Furnace / CAC to 16 SEER / 9.0 hspf) | SFD | LI | ROB | 14,426.0 | 60.8% | 8,770.0 | 0.203 | 0.65 | 12 | \$3,158.48 | Installation of 16 SEER / 9.0 hspf instead of electric furnace in homes with electric furnaces | 1.5% | 0.0% | 1.47 |
| 2035 | Furnace Whistle - electric heating and central AC | SFD | LI | Retrofit | 11,098.3 | 0.5% | 58.3 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on electric furnaces in homes with electric forced air heating | 6.0% | 10.0% | 59.74 |
| 2036 | Furnace Whistle - non-electric heating and central AC | SFD | LI | Retrofit | 1,738.0 | 0.9% | 15.4 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on non-electric furnaces in homes with non-electric forced air heating | 55.0% | 10.0% | 33.77 |
| 2037 | High Efficiency Room Air Conditioner (11 CEER to 12 CEER) | SFD | LI | ROB | 1,603.0 | 0.5% | 8.1 | 0.061 | 0.30 | 9 | \$40.00 | Installation of a high efficiency room air conditioner instead of standard room air conditioner in homes with room air conditioning and any form of electric heating other than baseboard heating | 52.1% | 33.0% | 0.30 |
| 2038 | Programmable Thermostat (electric heating and air conditioning) | SFD | LI | Retrofit | 13,064.6 | 3.4% | 448.2 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with electric heating and air conditioning | 8.2% | 63.0% | 3.30 |
| 2039 | Smart Thermostat (electric heating and air conditioning) | SFD | LI | Retrofit | 13,064.6 | 10.5% | 1,372.2 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with electric heating and air conditioning | 8.2% | 63.0% | 2.59 |
| 2040 | Programmable Thermostat (non-electric heating and air conditioning) | SFD | LI | Retrofit | 1,738.0 | 2.0% | 34.8 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with non-electric heating and air conditioning | 82.8% | 63.0% | 0.26 |
| 2041 | Smart Thermostat (non-electric heating and air conditioning) | SFD | LI | Retrofit | 1,738.0 | 13.6% | 235.5 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with non-electric heating and air conditioning | 82.8% | 63.0% | 0.45 |
| 2042 | Central AC Maintenance (10.4 SEER to 11 SEER) | SFA | NLI | Retrofit | 1,632.0 | 2.0% | 32.0 | 0.073 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of central AC units in homes with central air conditioning | 58.2% | 48.0% | 0.27 |
| 2043 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) | SFA | NLI | ROB | 1,312.0 | 9.5% | 124.0 | 0.163 | 0.65 | 14 | \$1,319.00 | Installation of 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 58.2% | 14.0% | 0.11 |
| 2044 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) | SFA | NLI | ROB | 1,312.0 | 13.4% | 176.0 | 0.227 | 0.65 | 14 | \$2,499.23 | Installation of 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 58.2% | 14.0% | 0.08 |
| 2045 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) - with proper sizing | SFA | NLI | ROB | 1,312.0 | 11.3% | 148.0 | 0.200 | 0.65 | 14 | \$1,230.23 | Installation of properly sized 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 58.2% | 14.0% | 0.15 |
| 2046 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) - with proper sizing | SFA | NLI | ROB | 1,312.0 | 15.2% | 200.0 | 0.268 | 0.65 | 14 | \$2,410.41 | Installation of properly sized 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 58.2% | 14.0% | 0.10 |
| 2047 | Air Source Heat Pump Maintenance (12.3 SEER to 13 SEER / 7.3 hspf to 7.7 hspf) | SFA | NLI | Retrofit | 5,725.0 | 6.7% | 386.0 | 0.137 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of air-source heat pump in homes with air-source heat pumps | 1.3% | 57.0% | 1.34 |
| 2048 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 15 SEER / 8.5 hspf) | SFA | NLI | ROB | 4,944.0 | 3.6% | 177.0 | 0.042 | 0.65 | 12 | \$1,004.75 | Installation of 15 SEER / 8.5 hspf instead of standard air-source heat pump in homes with heat pumps | 1.3% | 14.0% | 0.11 |
| 2049 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 16 SEER / 9.0 hspf) | SFA | NLI | ROB | 4,944.0 | 9.3% | 460.0 | 0.071 | 0.65 | 12 | \$1,269.59 | Installation of 16 SEER / 9.0 hspf instead of standard air-source heat pump in homes with heat pumps | 1.3% | 14.0% | 0.21 |
| 2050 | ENERGY STAR Air Source Heat Pump (Elec Furnace / CAC to 16 SEER / 9.0 hspf) | SFA | NLI | ROB | 11,115.0 | 59.7% | 6,631.0 | 0.161 | 0.65 | 12 | \$2,829.74 | Installation of 16 SEER / 9.0 hspf instead of electric furnace in homes with electric furnaces | 1.5% | 0.0% | 1.24 |
| 2051 | High Efficiency Furnace Fan (on existing furnace) - electric heating and central AC | SFA | ALL | Retrofit | 11,115.0 | 4.0% | 446.0 | 0.176 | 0.65 | 18 | \$360.00 | Installation of high efficiency furnace fan on existing furnace in homes with electric furnaces | 6.0% | 34.0% | 1.03 |
| 2052 | High Efficiency Furnace Fan (on existing furnace) - non-electric heating and central AC | SFA | ALL | Retrofit | 1,600.0 | 27.9% | 446.0 | 0.176 | 0.65 | 18 | \$360.00 | Installation of high efficiency furnace fan on existing furnace in homes with non-electric furnaces | 55.0% | 34.0% | 1.03 |

Measure Assumptions - Duquesne

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|--|-----------------|---------------|-------------------|
| 2053 | Furnace Whistle - electric heating and central AC | SFA | NLI | Retrofit | 8,660.8 | 0.7% | 58.3 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on electric furnaces in homes with electric forced air heating | 6.0% | 10.0% | 59.74 |
| 2054 | Furnace Whistle - non-electric heating and central AC | SFA | NLI | Retrofit | 1,600.0 | 1.0% | 15.4 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on non-electric furnaces in homes with non-electric forced air heating | 55.0% | 10.0% | 33.77 |
| 2055 | Ductless Mini-Split Heat Pump (16 SEER / 9.0 hspf) - replacing baseboard/room AC | SFA | ALL | ROB | 10,532.0 | 61.3% | 6,455.0 | 1.297 | 0.30 | 15 | \$2,856.64 | Installation of a 16 SEER / 9.0 hspf ductless minisplit heat pump to replace baseboard heating in homes with baseboard heating and room air conditioning | 38.6% | 0.0% | 1.56 |
| 2056 | Ductless Mini-Split Air Conditioner (16 SEER) replacing room AC | SFA | ALL | ROB | 1,558.0 | 37.4% | 582.0 | 1.312 | 0.30 | 15 | \$2,856.64 | Installation of a 16 SEER / 9.0 hspf ductless minisplit air conditioner instead of standard room air conditioner in homes with room air conditioning and any form of electric heating other than baseboard heating | 38.6% | 33.0% | 0.23 |
| 2057 | High Efficiency Room Air Conditioner (11 CEER to 12 CEER) | SFA | NLI | ROB | 1,558.0 | 0.5% | 8.1 | 0.061 | 0.30 | 9 | \$40.00 | Installation of a high efficiency room air conditioner instead of standard room air conditioner in homes with room air conditioning and any form of electric heating other than baseboard heating | 66.9% | 33.0% | 0.30 |
| 2058 | Room AC Retirement | SFA | ALL | Retrofit | 1,582.1 | 9.4% | 148.0 | 0.640 | 0.30 | 4 | \$60.00 | Retirement of supplemental room air conditioners (not primary or secondary) in homes with room air conditioners | 20.0% | 0.0% | 1.14 |
| 2059 | Programmable Thermostat (electric heating and air conditioning) | SFA | NLI | Retrofit | 9,951.9 | 3.4% | 336.5 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with electric heating and air conditioning | 8.2% | 63.0% | 2.48 |
| 2060 | Smart Thermostat (electric heating and air conditioning) | SFA | NLI | Retrofit | 9,951.9 | 10.7% | 1,062.3 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with electric heating and air conditioning | 8.2% | 63.0% | 2.01 |
| 2061 | Programmable Thermostat (non-electric heating and air conditioning) | SFA | NLI | Retrofit | 1,600.0 | 2.0% | 32.0 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with non-electric heating and air conditioning | 82.8% | 63.0% | 0.24 |
| 2062 | Smart Thermostat (non-electric heating and air conditioning) | SFA | NLI | Retrofit | 1,600.0 | 13.7% | 219.8 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with non-electric heating and air conditioning | 82.8% | 63.0% | 0.42 |
| 2063 | Residential Whole House Fan | SFA | ALL | Retrofit | 1,600.0 | 9.5% | 152.3 | 0.000 | 0.65 | 15 | \$533.86 | Installation of residential whole house fan in homes with air conditioning | 91.0% | 9.1% | 0.19 |
| 2064 | Central AC Maintenance (10.4 SEER to 11 SEER) | SFA | LI | Retrofit | 1,632.0 | 2.0% | 32.0 | 0.073 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of central AC units in homes with central air conditioning | 58.2% | 48.0% | 0.27 |
| 2065 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) | SFA | LI | ROB | 1,312.0 | 9.5% | 124.0 | 0.163 | 0.65 | 14 | \$1,319.00 | Installation of 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 58.2% | 14.0% | 0.11 |
| 2066 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) | SFA | LI | ROB | 1,312.0 | 13.4% | 176.0 | 0.227 | 0.65 | 14 | \$2,499.23 | Installation of 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 58.2% | 14.0% | 0.08 |
| 2067 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) - with proper sizing | SFA | LI | ROB | 1,312.0 | 11.3% | 148.0 | 0.200 | 0.65 | 14 | \$1,230.23 | Installation of properly sized 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 58.2% | 14.0% | 0.15 |
| 2068 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) - with proper sizing | SFA | LI | ROB | 1,312.0 | 15.2% | 200.0 | 0.268 | 0.65 | 14 | \$2,410.41 | Installation of properly sized 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 58.2% | 14.0% | 0.10 |
| 2069 | Air Source Heat Pump Maintenance (12.3 SEER to 13 SEER / 7.3 hspf to 7.7 hspf) | SFA | LI | ROB | 5,725.0 | 6.7% | 386.0 | 0.137 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of air-source heat pump in homes with air-source heat pumps | 1.3% | 57.0% | 1.34 |
| 2070 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 15 SEER / 8.5 hspf) | SFA | LI | ROB | 4,944.0 | 3.6% | 177.0 | 0.071 | 0.65 | 12 | \$1,004.75 | Installation of 15 SEER / 8.5 hspf instead of standard air-source heat pump in homes with heat pumps | 1.3% | 14.0% | 0.12 |
| 2071 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 16 SEER / 9.0 hspf) | SFA | LI | ROB | 4,944.0 | 9.3% | 460.0 | 0.071 | 0.65 | 12 | \$1,269.59 | Installation of 16 SEER / 9.0 hspf instead of standard air-source heat pump in homes with heat pumps | 1.3% | 14.0% | 0.21 |
| 2072 | ENERGY STAR Air Source Heat Pump (Elec Furnace / CAC to 16 SEER / 9.0 hspf) | SFA | LI | ROB | 11,115.0 | 59.7% | 6,631.0 | 0.161 | 0.65 | 12 | \$2,829.74 | Installation of 16 SEER / 9.0 hspf instead of electric furnace in homes with electric furnaces | 1.5% | 0.0% | 1.24 |
| 2073 | Furnace Whistle - electric heating and central AC | SFA | LI | Retrofit | 8,660.8 | 0.7% | 58.3 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on electric furnaces in homes with electric forced air heating | 6.0% | 10.0% | 59.74 |
| 2074 | Furnace Whistle - non-electric heating and central AC | SFA | LI | Retrofit | 1,600.0 | 1.0% | 15.4 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on non-electric furnaces in homes with non-electric forced air heating | 55.0% | 10.0% | 33.77 |
| 2075 | High Efficiency Room Air Conditioner (11 CEER to 12 CEER) | SFA | LI | ROB | 1,558.0 | 0.5% | 8.1 | 0.061 | 0.30 | 9 | \$40.00 | Installation of a high efficiency room air conditioner instead of standard room air conditioner in homes with room air conditioning and any form of electric heating other than baseboard heating | 66.9% | 33.0% | 0.30 |
| 2076 | Programmable Thermostat (electric heating and air conditioning) | SFA | LI | Retrofit | 9,951.9 | 3.4% | 336.5 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with electric heating and air conditioning | 8.2% | 63.0% | 2.48 |
| 2077 | Smart Thermostat (electric heating and air conditioning) | SFA | LI | Retrofit | 9,951.9 | 10.7% | 1,062.3 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with electric heating and air conditioning | 8.2% | 63.0% | 2.01 |
| 2078 | Programmable Thermostat (non-electric heating and air conditioning) | SFA | LI | Retrofit | 1,600.0 | 2.0% | 32.0 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with non-electric heating and air conditioning | 82.8% | 63.0% | 0.24 |
| 2079 | Smart Thermostat (non-electric heating and air conditioning) | SFA | LI | Retrofit | 1,600.0 | 13.7% | 219.8 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with non-electric heating and air conditioning | 82.8% | 63.0% | 0.42 |
| 2080 | Central AC Maintenance (10.4 SEER to 11 SEER) | MF | NLI | Retrofit | 1,683.0 | 3.9% | 65.0 | 0.060 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of central AC units in homes with central air conditioning | 58.2% | 48.0% | 0.32 |

Measure Assumptions - Duquesne

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|---|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|--|-----------------|---------------|-------------------|
| 2081 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) | MF | NLI | ROB | 1,282.0 | 11.9% | 152.0 | 0.133 | 0.65 | 14 | \$1,141.46 | Installation of 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 58.2% | 14.0% | 0.13 |
| 2082 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) | MF | NLI | ROB | 1,282.0 | 16.8% | 215.0 | 0.183 | 0.65 | 14 | \$2,321.59 | Installation of 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 58.2% | 14.0% | 0.09 |
| 2083 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) - with proper sizing | MF | NLI | ROB | 1,282.0 | 13.1% | 168.0 | 0.148 | 0.65 | 14 | \$856.10 | Installation of properly sized 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 58.2% | 14.0% | 0.20 |
| 2084 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) - with proper sizing | MF | NLI | ROB | 1,282.0 | 18.0% | 231.0 | 0.198 | 0.65 | 14 | \$1,741.19 | Installation of properly sized 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 58.2% | 14.0% | 0.13 |
| 2085 | Air Source Heat Pump Maintenance (12.3 SEER to 13 SEER / 7.3 hspf to 7.7 hspf) | MF | NLI | Retrofit | 2,403.3 | 10.3% | 247.3 | 0.108 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of air-source heat pump in homes with air-source heat pumps | 1.3% | 57.0% | 0.91 |
| 2086 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 15 SEER / 8.5 hspf) | MF | NLI | ROB | 2,019.0 | 3.4% | 68.0 | 0.033 | 0.65 | 12 | \$781.39 | Installation of 15 SEER / 8.5 hspf instead of standard air-source heat pump in homes with heat pumps | 1.3% | 14.0% | 0.06 |
| 2087 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 16 SEER / 9.0 hspf) | MF | NLI | ROB | 2,019.0 | 7.5% | 152.0 | 0.057 | 0.65 | 12 | \$1,046.23 | Installation of 16 SEER / 9.0 hspf instead of standard air-source heat pump in homes with heat pumps | 1.3% | 14.0% | 0.10 |
| 2088 | ENERGY STAR Air Source Heat Pump (Elec Furnace / CAC to 16 SEER / 9.0 hspf) | MF | NLI | ROB | 3,119.0 | 40.1% | 1,252.0 | 0.139 | 0.65 | 12 | \$2,172.26 | Installation of 16 SEER / 9.0 hspf instead of electric furnace in homes with electric furnaces | 1.5% | 0.0% | 0.32 |
| 2089 | High Efficiency Furnace Fan (on existing furnace) - electric heating and central AC | MF | ALL | Retrofit | 3,119.0 | 14.3% | 446.0 | 0.176 | 0.65 | 18 | \$360.00 | Installation of high efficiency furnace fan on existing furnace in homes with electric furnaces | 6.0% | 34.0% | 1.03 |
| 2090 | High Efficiency Furnace Fan (on existing furnace) - non-electric heating and central AC | MF | ALL | Retrofit | 1,618.0 | 27.6% | 446.0 | 0.176 | 0.65 | 18 | \$360.00 | Installation of high efficiency furnace fan on existing furnace in homes with non-electric furnaces | 55.0% | 34.0% | 1.03 |
| 2091 | Furnace Whistle - electric heating and central AC | MF | NLI | Retrofit | 2,853.6 | 2.0% | 58.3 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on electric furnaces in homes with electric forced air heating | 6.0% | 10.0% | 59.74 |
| 2092 | Furnace Whistle - non-electric heating and central AC | MF | NLI | Retrofit | 1,618.0 | 0.9% | 15.4 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on non-electric furnaces in homes with non-electric forced air heating | 55.0% | 10.0% | 33.77 |
| 2093 | Ductless Mini-Split Heat Pump (16 SEER / 9.0 hspf) - replacing baseboard/room AC | MF | ALL | ROB | 2,937.0 | 58.5% | 1,717.2 | 1.043 | 0.30 | 15 | \$1,428.32 | Installation of a 16 SEER / 9.0 hspf ductless minisplit heat pump to replace baseboard heating in homes with baseboard heating and room air conditioning | 43.7% | 0.0% | 0.94 |
| 2094 | Ductless Mini-Split Air Conditioner (16 SEER) replacing room AC | MF | ALL | ROB | 1,412.0 | 53.8% | 760.0 | 1.142 | 0.30 | 15 | \$1,428.32 | Installation of a 16 SEER / 9.0 hspf ductless minisplit air conditioner instead of standard room air conditioner in homes with room air conditioning and any form of electric heating other than baseboard heating | 43.7% | 33.0% | 0.52 |
| 2095 | High Efficiency Room Air Conditioner (11 CEER to 12 CEER) | MF | NLI | ROB | 1,412.0 | 0.6% | 8.1 | 0.061 | 0.30 | 9 | \$40.00 | Installation of a high efficiency room air conditioner instead of standard room air conditioner in homes with room air conditioning and any form of electric heating other than baseboard heating | 56.8% | 33.0% | 0.30 |
| 2096 | Room AC Retirement | MF | ALL | Retrofit | 1,438.3 | 10.3% | 148.0 | 0.640 | 0.30 | 4 | \$60.00 | Retirement of supplemental room air conditioners (not primary or secondary) in homes with room air conditioners | 20.0% | 0.0% | 1.14 |
| 2097 | Programmable Thermostat (electric heating and air conditioning) | MF | NLI | Retrofit | 2,911.2 | 2.9% | 84.1 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with electric heating and air conditioning | 8.2% | 63.0% | 0.62 |
| 2098 | Smart Thermostat (electric heating and air conditioning) | MF | NLI | Retrofit | 2,911.2 | 12.4% | 360.8 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with electric heating and air conditioning | 8.2% | 63.0% | 0.68 |
| 2099 | Programmable Thermostat (non-electric heating and air conditioning) | MF | NLI | Retrofit | 1,618.0 | 2.0% | 32.4 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with non-electric heating and air conditioning | 82.8% | 63.0% | 0.24 |
| 2100 | Smart Thermostat (non-electric heating and air conditioning) | MF | NLI | Retrofit | 1,618.0 | 14.5% | 234.0 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with non-electric heating and air conditioning | 82.8% | 63.0% | 0.45 |
| 2101 | Residential Whole House Fan | MF | ALL | Retrofit | 1,618.0 | 4.8% | 78.4 | -0.017 | 0.65 | 15 | \$533.86 | Installation of residential whole house fan in homes with air conditioning | 91.0% | 9.1% | 0.08 |
| 2102 | Central AC Maintenance (10.4 SEER to 11 SEER) | MF | LI | Retrofit | 1,683.0 | 3.9% | 65.0 | 0.060 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of central AC units in homes with central air conditioning | 58.2% | 48.0% | 0.32 |
| 2103 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) | MF | LI | ROB | 1,282.0 | 11.9% | 152.0 | 0.133 | 0.65 | 14 | \$1,141.46 | Installation of 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 58.2% | 14.0% | 0.13 |
| 2104 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) | MF | LI | ROB | 1,282.0 | 16.8% | 215.0 | 0.183 | 0.65 | 14 | \$2,321.59 | Installation of 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 58.2% | 14.0% | 0.09 |
| 2105 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) - with proper sizing | MF | LI | ROB | 1,282.0 | 13.1% | 168.0 | 0.148 | 0.65 | 14 | \$856.10 | Installation of properly sized 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 58.2% | 14.0% | 0.20 |
| 2106 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) - with proper sizing | MF | LI | ROB | 1,282.0 | 18.0% | 231.0 | 0.198 | 0.65 | 14 | \$1,741.19 | Installation of properly sized 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 58.2% | 14.0% | 0.13 |
| 2107 | Air Source Heat Pump Maintenance (12.3 SEER to 13 SEER / 7.3 hspf to 7.7 hspf) | MF | LI | ROB | 2,403.3 | 10.3% | 247.3 | 0.108 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of air-source heat pump in homes with air-source heat pumps | 1.3% | 57.0% | 0.91 |
| 2108 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 15 SEER / 8.5 hspf) | MF | LI | ROB | 2,019.0 | 3.4% | 68.0 | 0.033 | 0.65 | 12 | \$781.39 | Installation of 15 SEER / 8.5 hspf instead of standard air-source heat pump in homes with heat pumps | 1.3% | 14.0% | 0.06 |

Measure Assumptions - Duquesne

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|---|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|---|-----------------|---------------|-------------------|
| 2109 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 16 SEER / 9.0 hspf) | MF | LI | ROB | 2,019.0 | 7.5% | 152.0 | 0.057 | 0.65 | 12 | \$1,046.23 | Installation of 16 SEER / 9.0 hspf instead of standard air-source heat pump in homes with heat pumps | 1.3% | 14.0% | 0.10 |
| 2110 | ENERGY STAR Air Source Heat Pump (Elec Furnace / CAC to 16 SEER / 9.0 hspf) | MF | LI | ROB | 3,119.0 | 40.1% | 1,252.0 | 0.139 | 0.65 | 12 | \$2,172.26 | Installation of 16 SEER / 9.0 hspf instead of electric furnace in homes with electric furnaces | 1.5% | 0.0% | 0.32 |
| 2111 | Furnace Whistle - electric heating and central AC | MF | LI | Retrofit | 2,853.6 | 2.0% | 58.3 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on electric furnaces in homes with electric forced air heating | 6.0% | 10.0% | 59.74 |
| 2112 | Furnace Whistle - non-electric heating and central AC | MF | LI | Retrofit | 1,618.0 | 0.9% | 15.4 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on non-electric furnaces in homes with non-electric forced air heating | 55.0% | 10.0% | 33.77 |
| 2113 | High Efficiency Room Air Conditioner (11 CEER to 12 CEER) | MF | LI | ROB | 1,412.0 | 0.6% | 8.1 | 0.061 | 0.30 | 9 | \$40.00 | Installation of a high efficiency room air conditioner instead of standard room air conditioner in homes with room air conditioning and any form of electric heating other than baseboard heating | 56.8% | 33.0% | 0.30 |
| 2114 | Programmable Thermostat (electric heating and air conditioning) | MF | LI | Retrofit | 2,911.2 | 2.9% | 84.1 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with electric heating and air conditioning | 8.2% | 63.0% | 0.62 |
| 2115 | Smart Thermostat (electric heating and air conditioning) | MF | LI | Retrofit | 2,911.2 | 12.4% | 360.8 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with electric heating and air conditioning | 8.2% | 33.0% | 0.68 |
| 2116 | Programmable Thermostat (non-electric heating and air conditioning) | MF | LI | Retrofit | 1,618.0 | 2.0% | 32.4 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with non-electric heating and air conditioning | 82.8% | 63.0% | 0.24 |
| 2117 | Smart Thermostat (non-electric heating and air conditioning) | MF | LI | Retrofit | 1,618.0 | 14.5% | 234.0 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with non-electric heating and air conditioning | 82.8% | 63.0% | 0.45 |
| 3000 | Domestic Hot Water | | | | | | | | | | | | | | |
| 3001 | Water Heater Temperature Setback | SFD | NLI | Retrofit | 1,966.9 | 7.7% | 151.3 | 0.012 | 1.00 | 4 | \$5.00 | Lowering water heater setpoint from 130 to 120 degrees | 17.0% | 81.6% | 5.20 |
| 3002 | Water Heater Pipe Insulation | SFD | NLI | Retrofit | 3,338.0 | 3.0% | 100.0 | 0.008 | 1.00 | 13 | \$30.00 | Installation of foam insulation on 10 feet of exposed pipe in unconditioned 3/4" thick | 17.0% | 11.0% | 2.04 |
| 3003 | Low Flow Faucet Aerators - Bathroom | SFD | NLI | Retrofit | 71.2 | 31.9% | 22.7 | 0.003 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in bathroom to replace standard flow aerator | 49.1% | 21.0% | 8.42 |
| 3004 | Low Flow Faucet Aerators - Kitchen | SFD | NLI | Retrofit | 613.3 | 31.9% | 195.9 | 0.026 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in kitchen to replace standard flow aerator | 17.0% | 21.0% | 72.60 |
| 3005 | Low Flow Showerheads | SFD | NLI | Retrofit | 903.2 | 40.0% | 361.3 | 0.029 | 1.00 | 9 | \$6.00 | Installation of low flow showerhead in to replace standard flow showerhead | 25.8% | 20.0% | 24.36 |
| 3006 | Thermostatic Shower Restriction Valve | SFD | ALL | Retrofit | 106.1 | 100.0% | 106.1 | 0.009 | 1.00 | 10 | \$30.00 | Installation of thermostatic restriction valve to reduce hot water usage during shower warm-up in homes with electric water heating | 25.8% | 1.0% | 1.63 |
| 3007 | Drain Water Heat Recovery Device | SFD | NLI | Retrofit | 556.5 | 45.4% | 252.7 | 0.041 | 0.70 | 20 | \$1,022.00 | Installation of a drain water heat recovery device to recapture heated wastewater in homes with electric water heating | 17.0% | 1.0% | 0.18 |
| 3008 | Water Heater Tank Wrap | SFD | NLI | Retrofit | 389.1 | 54.9% | 213.6 | 0.024 | 1.00 | 7 | \$50.00 | Installation of insulated tank wrap to existing residential electric hot water heaters | 17.0% | 8.0% | 1.27 |
| 3009 | Heat Pump Water Heaters (50 - 75 gallon) | SFD | NLI | ROB | 3,005.7 | 45.7% | 1,373.3 | 0.111 | 1.00 | 14 | \$945.00 | Installation of 50-75 gallon heat pump water heater instead of standard storage electric storage water heater | 14.5% | 0.0% | 0.70 |
| 3010 | Solar Water Heaters | SFD | NLI | ROB | 3,005.7 | 48.6% | 1,462.0 | 0.118 | 1.00 | 15 | \$5,384.00 | Installation of solar water heater instead of standard storage electric storage water heater | 14.5% | 0.0% | 0.19 |
| 3011 | Heat Pump Water Heaters (75+ gallon) | SFD | NLI | ROB | 1,449.6 | 2.1% | 30.1 | 0.002 | 1.00 | 14 | \$1,369.00 | Installation of 75+ gallon heat pump water heater instead of standard storage electric storage water heater | 2.5% | 0.0% | 0.01 |
| 3012 | Water Heater Temperature Setback | SFD | LI | ROB | 1,966.9 | 7.7% | 151.3 | 0.012 | 1.00 | 4 | \$5.00 | Lowering water heater setpoint from 130 to 120 degrees | 17.0% | 81.6% | 5.20 |
| 3013 | Water Heater Pipe Insulation | SFD | LI | Retrofit | 3,338.0 | 3.0% | 100.0 | 0.008 | 1.00 | 13 | \$30.00 | Installation of foam insulation on 10 feet of exposed pipe in unconditioned 3/4" thick | 17.0% | 11.0% | 2.04 |
| 3014 | Low Flow Faucet Aerators - Bathroom | SFD | LI | Retrofit | 71.2 | 31.9% | 22.7 | 0.003 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in bathroom to replace standard flow aerator | 49.1% | 21.0% | 8.42 |
| 3015 | Low Flow Faucet Aerators - Kitchen | SFD | LI | Retrofit | 613.3 | 31.9% | 195.9 | 0.026 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in kitchen to replace standard flow aerator | 17.0% | 21.0% | 72.60 |
| 3016 | Low Flow Showerheads | SFD | LI | Retrofit | 903.2 | 40.0% | 361.3 | 0.029 | 1.00 | 9 | \$6.00 | Installation of low flow showerhead in to replace standard flow showerhead | 25.8% | 20.0% | 24.36 |
| 3017 | Drain Water Heat Recovery Device | SFD | LI | Retrofit | 556.5 | 45.4% | 252.7 | 0.041 | 0.70 | 20 | \$1,022.00 | Installation of a drain water heat recovery device to recapture heated wastewater in homes with electric water heating | 17.0% | 1.0% | 0.18 |
| 3018 | Water Heater Tank Wrap | SFD | LI | Retrofit | 389.1 | 54.9% | 213.6 | 0.024 | 1.00 | 7 | \$50.00 | Installation of insulated tank wrap to existing residential electric hot water heaters | 17.0% | 8.0% | 1.27 |
| 3019 | Heat Pump Water Heaters (50 - 75 gallon) | SFD | LI | ROB | 3,005.7 | 45.7% | 1,373.3 | 0.111 | 1.00 | 14 | \$945.00 | Installation of 50-75 gallon heat pump water heater instead of standard storage electric storage water heater | 14.5% | 0.0% | 0.75 |
| 3020 | Solar Water Heaters | SFD | LI | ROB | 3,005.7 | 48.6% | 1,462.0 | 0.118 | 1.00 | 15 | \$5,384.00 | Installation of solar water heater instead of standard storage electric storage water heater | 14.5% | 0.0% | 0.18 |
| 3021 | Heat Pump Water Heaters (75+ gallon) | SFD | LI | ROB | 1,449.6 | 2.1% | 30.1 | 0.002 | 1.00 | 14 | \$1,369.00 | Installation of 75+ gallon heat pump water heater instead of standard storage electric storage water heater | 2.5% | 0.0% | 0.01 |
| 3022 | Water Heater Temperature Setback | SFD | ALL | NC | 1,966.9 | 7.7% | 151.3 | 0.012 | 1.00 | 4 | \$5.00 | Lowering water heater setpoint from 130 to 120 degrees | 17.0% | 0.0% | 5.20 |
| 3023 | Water Heater Pipe Insulation | SFD | ALL | NC | 3,338.0 | 3.0% | 100.0 | 0.008 | 1.00 | 13 | \$30.00 | Installation of foam insulation on 10 feet of exposed pipe in unconditioned 3/4" thick | 17.0% | 0.0% | 2.04 |
| 3024 | Low Flow Faucet Aerators - Bathroom | SFD | ALL | NC | 71.2 | 31.9% | 22.7 | 0.003 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in bathroom to replace standard flow aerator | 49.1% | 0.0% | 8.42 |

Measure Assumptions - Duquesne

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|---|-----------------|---------------|-------------------|
| 3025 | Low Flow Faucet Aerators - Kitchen | SFD | ALL | NC | 613.3 | 31.9% | 195.9 | 0.026 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in kitchen to replace standard flow aerator | 17.0% | 0.0% | 72.60 |
| 3026 | Low Flow Showerheads | SFD | ALL | NC | 903.2 | 40.0% | 361.3 | 0.029 | 1.00 | 9 | \$6.00 | Installation of low flow showerhead in to replace standard flow showerhead | 25.8% | 0.0% | 24.36 |
| 3027 | Thermostatic Shower Restriction Valve | SFD | ALL | NC | 106.1 | 100.0% | 106.1 | 0.009 | 1.00 | 10 | \$30.00 | Installation of thermostatic restriction valve to reduce hot water usage during shower warm-up in homes with electric water heating | 25.8% | 0.0% | 1.63 |
| 3028 | Drain Water Heat Recovery Device | SFD | ALL | NC | 556.5 | 45.4% | 252.7 | 0.041 | 0.70 | 20 | \$1,022.00 | Installation of a drain water heat recovery device to recapture heated wastewater in homes with electric water heating | 17.0% | 0.0% | 0.18 |
| 3029 | Water Heater Tank Wrap | SFD | ALL | NC | 389.1 | 54.9% | 213.6 | 0.024 | 1.00 | 7 | \$50.00 | Installation of insulated tank wrap to existing residential electric hot water heaters | 17.0% | 0.0% | 1.27 |
| 3030 | Heat Pump Water Heaters (50 - 75 gallon) | SFD | ALL | NC | 3,005.7 | 45.7% | 1,373.3 | 0.111 | 1.00 | 14 | \$945.00 | Installation of 50-75 gallon heat pump water heater instead of standard storage electric storage water heater | 14.5% | 0.0% | 0.70 |
| 3031 | Solar Water Heaters | SFD | ALL | NC | 3,005.7 | 48.6% | 1,462.0 | 0.118 | 1.00 | 15 | \$5,384.00 | Installation of solar water heater instead of standard storage electric storage water heater | 14.5% | 0.0% | 0.19 |
| 3032 | Heat Pump Water Heaters (75+ gallon) | SFD | ALL | NC | 1,449.6 | 2.1% | 30.1 | 0.002 | 1.00 | 14 | \$1,369.00 | Installation of 75+ gallon heat pump water heater instead of standard storage electric storage water heater | 2.5% | 0.0% | 0.01 |
| 3033 | Water Heater Temperature Setback | SFA | NLI | Retrofit | 1,966.9 | 7.7% | 151.3 | 0.012 | 1.00 | 4 | \$5.00 | Lowering water heater setpoint from 130 to 120 degrees | 17.0% | 81.6% | 5.20 |
| 3034 | Water Heater Pipe Insulation | SFA | NLI | Retrofit | 3,338.0 | 3.0% | 100.0 | 0.008 | 1.00 | 13 | \$30.00 | Installation of foam insulation on 10 feet of exposed pipe in unconditioned 3/4" thick | 17.0% | 11.0% | 2.04 |
| 3035 | Low Flow Faucet Aerators - Bathroom | SFA | NLI | Retrofit | 71.2 | 31.9% | 22.7 | 0.003 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in bathroom to replace standard flow aerator | 37.5% | 21.0% | 8.42 |
| 3036 | Low Flow Faucet Aerators - Kitchen | SFA | NLI | Retrofit | 613.3 | 31.9% | 195.9 | 0.026 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in kitchen to replace standard flow aerator | 17.0% | 21.0% | 72.60 |
| 3037 | Low Flow Showerheads | SFA | NLI | Retrofit | 903.2 | 40.0% | 361.3 | 0.029 | 1.00 | 9 | \$6.00 | Installation of low flow showerhead in to replace standard flow showerhead | 23.8% | 20.0% | 24.36 |
| 3038 | Thermostatic Shower Restriction Valve | SFA | ALL | Retrofit | 106.1 | 100.0% | 106.1 | 0.009 | 1.00 | 10 | \$30.00 | Installation of thermostatic restriction valve to reduce hot water usage during shower warm-up in homes with electric water heating | 23.8% | 1.0% | 1.63 |
| 3039 | Drain Water Heat Recovery Device | SFA | NLI | Retrofit | 556.5 | 45.4% | 252.7 | 0.041 | 0.70 | 20 | \$1,022.00 | Installation of a drain water heat recovery device to recapture heated wastewater in homes with electric water heating | 17.0% | 1.0% | 0.18 |
| 3040 | Water Heater Tank Wrap | SFA | NLI | Retrofit | 389.1 | 54.9% | 213.6 | 0.024 | 1.00 | 7 | \$50.00 | Installation of insulated tank wrap to existing residential electric hot water heaters | 17.0% | 8.0% | 1.27 |
| 3041 | Heat Pump Water Heaters (50 - 75 gallon) | SFA | NLI | ROB | 3,005.7 | 45.7% | 1,373.3 | 0.111 | 1.00 | 14 | \$945.00 | Installation of 50-75 gallon heat pump water heater instead of standard storage electric storage water heater | 14.5% | 0.0% | 0.70 |
| 3042 | Solar Water Heaters | SFA | NLI | ROB | 3,005.7 | 48.6% | 1,462.0 | 0.118 | 1.00 | 15 | \$5,384.00 | Installation of solar water heater instead of standard storage electric storage water heater | 14.5% | 0.0% | 0.19 |
| 3043 | Heat Pump Water Heaters (75+ gallon) | SFA | NLI | ROB | 1,449.6 | 2.1% | 30.1 | 0.002 | 1.00 | 14 | \$1,369.00 | Installation of 75+ gallon heat pump water heater instead of standard storage electric storage water heater | 2.5% | 0.0% | 0.01 |
| 3044 | Water Heater Temperature Setback | SFA | LI | Retrofit | 1,966.9 | 7.7% | 151.3 | 0.012 | 1.00 | 4 | \$5.00 | Lowering water heater setpoint from 130 to 120 degrees | 17.0% | 81.6% | 5.20 |
| 3045 | Water Heater Pipe Insulation | SFA | LI | Retrofit | 3,338.0 | 3.0% | 100.0 | 0.008 | 1.00 | 13 | \$30.00 | Installation of foam insulation on 10 feet of exposed pipe in unconditioned 3/4" thick | 17.0% | 11.0% | 2.04 |
| 3046 | Low Flow Faucet Aerators - Bathroom | SFA | LI | Retrofit | 71.2 | 31.9% | 22.7 | 0.003 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in bathroom to replace standard flow aerator | 37.5% | 21.0% | 8.42 |
| 3047 | Low Flow Faucet Aerators - Kitchen | SFA | LI | Retrofit | 613.3 | 31.9% | 195.9 | 0.026 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in kitchen to replace standard flow aerator | 17.0% | 21.0% | 72.60 |
| 3048 | Low Flow Showerheads | SFA | LI | Retrofit | 903.2 | 40.0% | 361.3 | 0.029 | 1.00 | 9 | \$6.00 | Installation of low flow showerhead in to replace standard flow showerhead | 23.8% | 20.0% | 24.36 |
| 3049 | Drain Water Heat Recovery Device | SFA | LI | Retrofit | 556.5 | 45.4% | 252.7 | 0.041 | 0.70 | 20 | \$1,022.00 | Installation of a drain water heat recovery device to recapture heated wastewater in homes with electric water heating | 17.0% | 1.0% | 0.18 |
| 3050 | Water Heater Tank Wrap | SFA | LI | Retrofit | 389.1 | 54.9% | 213.6 | 0.024 | 1.00 | 7 | \$50.00 | Installation of insulated tank wrap to existing residential electric hot water heaters | 17.0% | 8.0% | 1.27 |
| 3051 | Heat Pump Water Heaters (50 - 75 gallon) | SFA | LI | ROB | 3,005.7 | 45.7% | 1,373.3 | 0.111 | 1.00 | 14 | \$945.00 | Installation of 50-75 gallon heat pump water heater instead of standard storage electric storage water heater | 14.5% | 0.0% | 0.70 |
| 3052 | Solar Water Heaters | SFA | LI | ROB | 3,005.7 | 48.6% | 1,462.0 | 0.118 | 1.00 | 15 | \$5,384.00 | Installation of solar water heater instead of standard storage electric storage water heater | 14.5% | 0.0% | 0.19 |
| 3053 | Heat Pump Water Heaters (75+ gallon) | SFA | LI | ROB | 1,449.6 | 2.1% | 30.1 | 0.002 | 1.00 | 14 | \$1,369.00 | Installation of 75+ gallon heat pump water heater instead of standard storage electric storage water heater | 2.5% | 0.0% | 0.01 |
| 3054 | Water Heater Temperature Setback | SFA | ALL | NC | 1,966.9 | 7.7% | 151.3 | 0.012 | 1.00 | 4 | \$5.00 | Lowering water heater setpoint from 130 to 120 degrees | 17.0% | 0.0% | 5.20 |
| 3055 | Water Heater Pipe Insulation | SFA | ALL | NC | 3,338.0 | 3.0% | 100.0 | 0.008 | 1.00 | 13 | \$30.00 | Installation of foam insulation on 10 feet of exposed pipe in unconditioned 3/4" thick | 17.0% | 0.0% | 2.04 |
| 3056 | Low Flow Faucet Aerators - Bathroom | SFA | ALL | NC | 71.2 | 31.9% | 22.7 | 0.003 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in bathroom to replace standard flow aerator | 37.5% | 0.0% | 8.42 |
| 3057 | Low Flow Faucet Aerators - Kitchen | SFA | ALL | NC | 613.3 | 31.9% | 195.9 | 0.026 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in kitchen to replace standard flow aerator | 17.0% | 0.0% | 72.60 |
| 3058 | Low Flow Showerheads | SFA | ALL | NC | 903.2 | 40.0% | 361.3 | 0.029 | 1.00 | 9 | \$6.00 | Installation of low flow showerhead in to replace standard flow showerhead | 23.8% | 0.0% | 24.36 |

Measure Assumptions - Duquesne

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|---|-----------------|---------------|-------------------|
| 3059 | Thermostatic Shower Restriction Valve | SFA | ALL | NC | 106.1 | 100.0% | 106.1 | 0.009 | 1.00 | 10 | \$30.00 | Installation of thermostatic restriction valve to reduce hot water usage during shower warm-up in homes with electric water heating | 23.8% | 0.0% | 1.63 |
| 3060 | Drain Water Heat Recovery Device | SFA | ALL | NC | 556.5 | 45.4% | 252.7 | 0.041 | 0.70 | 20 | \$1,022.00 | Installation of a drain water heat recovery device to recapture heated wastewater in homes with electric water heating | 17.0% | 0.0% | 0.18 |
| 3061 | Water Heater Tank Wrap | SFA | ALL | NC | 389.1 | 54.9% | 213.6 | 0.024 | 1.00 | 7 | \$50.00 | Installation of insulated tank wrap to existing residential electric hot water heaters | 17.0% | 0.0% | 1.27 |
| 3062 | Heat Pump Water Heaters (50 - 75 gallon) | SFA | ALL | NC | 3,005.7 | 45.7% | 1,373.3 | 0.111 | 1.00 | 14 | \$945.00 | Installation of 50-75 gallon heat pump water heater instead of standard storage electric storage water heater | 14.5% | 0.0% | 0.70 |
| 3063 | Solar Water Heaters | SFA | ALL | NC | 3,005.7 | 48.6% | 1,462.0 | 0.118 | 1.00 | 15 | \$5,384.00 | Installation of solar water heater instead of standard storage electric storage water heater | 14.5% | 0.0% | 0.19 |
| 3064 | Heat Pump Water Heaters (75+ gallon) | SFA | ALL | NC | 1,449.6 | 2.1% | 30.1 | 0.002 | 1.00 | 14 | \$1,369.00 | Installation of 75+ gallon heat pump water heater instead of standard storage electric storage water heater | 2.5% | 0.0% | 0.01 |
| 3065 | Water Heater Temperature Setback | MF | NLI | Retrofit | 1,966.9 | 7.7% | 151.3 | 0.012 | 1.00 | 4 | \$5.00 | Lowering water heater setpoint from 130 to 120 degrees | 17.0% | 81.6% | 5.20 |
| 3066 | Water Heater Pipe Insulation | MF | NLI | Retrofit | 3,338.0 | 3.0% | 100.0 | 0.008 | 1.00 | 13 | \$30.00 | Installation of foam insulation on 10 feet of exposed pipe in unconditioned 3/4" thick | 17.0% | 11.0% | 2.04 |
| 3067 | Low Flow Faucet Aerators - Bathroom | MF | NLI | Retrofit | 120.7 | 31.9% | 38.5 | 0.005 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in bathroom to replace standard flow aerator | 22.6% | 21.0% | 14.29 |
| 3068 | Low Flow Faucet Aerators - Kitchen | MF | NLI | Retrofit | 485.6 | 31.9% | 155.1 | 0.021 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in kitchen to replace standard flow aerator | 17.0% | 21.0% | 57.48 |
| 3069 | Low Flow Showerheads | MF | NLI | Retrofit | 845.0 | 40.0% | 338.0 | 0.027 | 1.00 | 9 | \$6.00 | Installation of low flow showerhead in to replace standard flow showerhead | 21.8% | 20.0% | 22.79 |
| 3070 | Thermostatic Shower Restriction Valve | MF | ALL | Retrofit | 99.3 | 100.0% | 99.3 | 0.008 | 1.00 | 10 | \$30.00 | Installation of thermostatic restriction valve to reduce hot water usage during shower warm-up in homes with electric water heating | 21.8% | 1.0% | 1.52 |
| 3071 | Drain Water Heat Recovery Device | MF | NLI | Retrofit | 371.0 | 45.4% | 168.4 | 0.027 | 0.70 | 20 | \$1,022.00 | Installation of a drain water heat recovery device to recapture heated wastewater in homes with electric water heating | 17.0% | 1.0% | 0.12 |
| 3072 | Water Heater Tank Wrap | MF | NLI | Retrofit | 389.1 | 54.9% | 213.6 | 0.024 | 1.00 | 7 | \$50.00 | Installation of insulated tank wrap to existing residential electric hot water heaters | 17.0% | 8.0% | 1.27 |
| 3073 | Heat Pump Water Heaters (50 - 75 gallon) | MF | NLI | ROB | 3,005.7 | 45.7% | 1,373.3 | 0.111 | 1.00 | 14 | \$945.00 | Installation of 50-75 gallon heat pump water heater instead of standard storage electric storage water heater | 14.5% | 0.0% | 0.70 |
| 3074 | Solar Water Heaters | MF | NLI | ROB | 3,005.7 | 48.6% | 1,462.0 | 0.118 | 1.00 | 15 | \$5,384.00 | Installation of solar water heater instead of standard storage electric storage water heater | 14.5% | 0.0% | 0.19 |
| 3075 | Heat Pump Water Heaters (75+ gallon) | MF | NLI | ROB | 1,449.6 | 2.1% | 30.1 | 0.002 | 1.00 | 14 | \$1,369.00 | Installation of 75+ gallon heat pump water heater instead of standard storage electric storage water heater | 2.5% | 0.0% | 0.01 |
| 3076 | Water Heater Temperature Setback | MF | LI | Retrofit | 1,966.9 | 7.7% | 151.3 | 0.012 | 1.00 | 4 | \$5.00 | Lowering water heater setpoint from 130 to 120 degrees | 17.0% | 81.6% | 5.20 |
| 3077 | Water Heater Pipe Insulation | MF | LI | Retrofit | 3,338.0 | 3.0% | 100.0 | 0.008 | 1.00 | 13 | \$30.00 | Installation of foam insulation on 10 feet of exposed pipe in unconditioned 3/4" thick | 17.0% | 11.0% | 2.04 |
| 3078 | Low Flow Faucet Aerators - Bathroom | MF | LI | Retrofit | 120.7 | 31.9% | 38.5 | 0.005 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in bathroom to replace standard flow aerator | 22.6% | 21.0% | 14.29 |
| 3079 | Low Flow Faucet Aerators - Kitchen | MF | LI | Retrofit | 485.6 | 31.9% | 155.1 | 0.021 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in kitchen to replace standard flow aerator | 17.0% | 21.0% | 57.48 |
| 3080 | Low Flow Showerheads | MF | LI | Retrofit | 845.0 | 40.0% | 338.0 | 0.027 | 1.00 | 9 | \$6.00 | Installation of low flow showerhead in to replace standard flow showerhead | 21.8% | 20.0% | 22.79 |
| 3081 | Drain Water Heat Recovery Device | MF | LI | Retrofit | 371.0 | 45.4% | 168.4 | 0.027 | 0.70 | 20 | \$1,022.00 | Installation of a drain water heat recovery device to recapture heated wastewater in homes with electric water heating | 17.0% | 1.0% | 0.12 |
| 3082 | Water Heater Tank Wrap | MF | LI | Retrofit | 389.1 | 54.9% | 213.6 | 0.024 | 1.00 | 7 | \$50.00 | Installation of insulated tank wrap to existing residential electric hot water heaters | 17.0% | 8.0% | 1.27 |
| 3083 | Heat Pump Water Heaters (50 - 75 gallon) | MF | LI | ROB | 3,005.7 | 45.7% | 1,373.3 | 0.111 | 1.00 | 14 | \$945.00 | Installation of 50-75 gallon heat pump water heater instead of standard storage electric storage water heater | 14.5% | 0.0% | 0.70 |
| 3084 | Solar Water Heaters | MF | LI | ROB | 3,005.7 | 48.6% | 1,462.0 | 0.118 | 1.00 | 15 | \$5,384.00 | Installation of solar water heater instead of standard storage electric storage water heater | 14.5% | 0.0% | 0.19 |
| 3085 | Heat Pump Water Heaters (75+ gallon) | MF | LI | ROB | 1,449.6 | 2.1% | 30.1 | 0.002 | 1.00 | 14 | \$1,369.00 | Installation of 75+ gallon heat pump water heater instead of standard storage electric storage water heater | 2.5% | 0.0% | 0.01 |
| 3086 | Water Heater Temperature Setback | MF | ALL | NC | 1,966.9 | 7.7% | 151.3 | 0.012 | 1.00 | 4 | \$5.00 | Lowering water heater setpoint from 130 to 120 degrees | 17.0% | 0.0% | 5.20 |
| 3087 | Water Heater Pipe Insulation | MF | ALL | NC | 3,338.0 | 3.0% | 100.0 | 0.008 | 1.00 | 13 | \$30.00 | Installation of foam insulation on 10 feet of exposed pipe in unconditioned 3/4" thick | 17.0% | 0.0% | 2.04 |
| 3088 | Low Flow Faucet Aerators - Bathroom | MF | ALL | NC | 120.7 | 31.9% | 38.5 | 0.005 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in bathroom to replace standard flow aerator | 22.6% | 0.0% | 14.29 |
| 3089 | Low Flow Faucet Aerators - Kitchen | MF | ALL | NC | 485.6 | 31.9% | 155.1 | 0.021 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in kitchen to replace standard flow aerator | 17.0% | 0.0% | 57.48 |
| 3090 | Low Flow Showerheads | MF | ALL | NC | 845.0 | 40.0% | 338.0 | 0.027 | 1.00 | 9 | \$6.00 | Installation of low flow showerhead in to replace standard flow showerhead | 21.8% | 0.0% | 22.79 |
| 3091 | Thermostatic Shower Restriction Valve | MF | ALL | NC | 99.3 | 100.0% | 99.3 | 0.008 | 1.00 | 10 | \$30.00 | Installation of thermostatic restriction valve to reduce hot water usage during shower warm-up in homes with electric water heating | 21.8% | 0.0% | 1.52 |

Measure Assumptions - Duquesne

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|--|-----------------|---------------|-------------------|
| 3092 | Drain Water Heat Recovery Device | MF | ALL | NC | 371.0 | 45.4% | 168.4 | 0.027 | 0.70 | 20 | \$1,022.00 | Installation of a drain water heat recovery device to recapture heated wastewater in homes with electric water heating | 17.0% | 0.0% | 0.12 |
| 3093 | Water Heater Tank Wrap | MF | ALL | NC | 389.1 | 54.9% | 213.6 | 0.024 | 1.00 | 7 | \$50.00 | Installation of insulated tank wrap to existing residential electric hot water heaters | 17.0% | 0.0% | 1.27 |
| 3094 | Heat Pump Water Heaters (50 - 75 gallon) | MF | ALL | NC | 3,005.7 | 45.7% | 1,373.3 | 0.111 | 1.00 | 14 | \$945.00 | Installation of 50-75 gallon heat pump water heater instead of standard storage electric storage water heater | 14.5% | 0.0% | 0.70 |
| 3095 | Solar Water Heaters | MF | ALL | NC | 3,005.7 | 48.6% | 1,462.0 | 0.118 | 1.00 | 15 | \$5,384.00 | Installation of solar water heater instead of standard storage electric storage water heater | 14.5% | 0.0% | 0.19 |
| 3096 | Heat Pump Water Heaters (75+ gallon) | MF | ALL | NC | 1,449.6 | 2.1% | 30.1 | 0.002 | 1.00 | 14 | \$1,369.00 | Installation of 75+ gallon heat pump water heater instead of standard storage electric storage water heater | 2.5% | 0.0% | 0.01 |
| 4000 | Appliances | | | | | | | | | | | | | | |
| 4001 | Refrigerator Recycling with Replacement | SFD | NLI | Retrofit | 1,034.9 | 43.6% | 451.6 | 0.051 | 1.00 | 7 | \$120.00 | Retirement and replacement of non-primary refrigerators in homes with more than one refrigerator; replacement unit assumed to be standard efficiency model | 25.0% | 0.0% | 1.13 |
| 4002 | Refrigerator Recycling without Replacement | SFD | NLI | Retrofit | 1,034.9 | 100.0% | 1,034.9 | 0.116 | 1.00 | 8 | \$120.00 | Retirement (no replacement) of non-primary refrigerators in homes with more than one refrigerator | 25.0% | 0.0% | 3.13 |
| 4003 | Freezer Recycling with Replacement | SFD | ALL | Retrofit | 1,097.7 | 52.7% | 578.6 | 0.065 | 1.00 | 7 | \$120.00 | Retirement and replacement of non-primary freezers in homes with more than one freezer; replacement unit assumed to be standard efficiency model | 1.0% | 0.0% | 1.43 |
| 4004 | Freezer Recycling without Replacement | SFD | ALL | Retrofit | 1,097.7 | 100.0% | 1,097.7 | 0.123 | 1.00 | 8 | \$120.00 | Retirement (no replacement) of non-primary refrigerators in homes with more than one refrigerator | 1.0% | 0.0% | 3.29 |
| 4005 | ENERGY STAR Refrigerators (Top-Mount) | SFD | NLI | ROB | 462.2 | 8.2% | 37.9 | 0.004 | 1.00 | 12 | \$21.83 | Installation of ENERGY STAR top-mount refrigerator instead of standard efficiency unit | 66.0% | 31.0% | 1.02 |
| 4006 | ENERGY STAR Refrigerators (Side-by-Side) | SFD | NLI | ROB | 608.9 | 8.6% | 52.5 | 0.006 | 1.00 | 12 | \$57.31 | Installation of ENERGY STAR side-mount refrigerator instead of standard efficiency unit | 19.0% | 31.0% | 0.54 |
| 4007 | ENERGY STAR Refrigerators (Bottom-Mount) | SFD | NLI | ROB | 644.2 | 8.7% | 55.9 | 0.006 | 1.00 | 12 | \$17.29 | Installation of ENERGY STAR bottom-mount refrigerator instead of standard efficiency unit | 11.0% | 31.0% | 1.90 |
| 4008 | ENERGY STAR Freezers (Upright) | SFD | NLI | ROB | 483.2 | 9.1% | 44.0 | 0.005 | 1.00 | 12 | \$6.75 | Installation of ENERGY STAR upright freezers instead of standard efficiency unit | 14.6% | 6.0% | 3.81 |
| 4009 | ENERGY STAR Freezers (Chest) | SFD | NLI | ROB | 290.1 | 10.0% | 29.0 | 0.003 | 1.00 | 12 | \$5.23 | Installation of ENERGY STAR chest freezers instead of standard efficiency unit | 9.4% | 6.0% | 3.23 |
| 4010 | ENERGY STAR Clothes Washers (Electric Water Heating) | SFD | NLI | ROB | 508.2 | 35.5% | 180.4 | 0.721 | 0.029 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 13.4% | 24.0% | 1.95 |
| 4011 | ENERGY STAR Clothes Washers (Gas Water Heating) | SFD | NLI | ROB | 205.2 | 20.0% | 41.1 | 0.164 | 0.029 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with gas water heating | 82.6% | 24.0% | 0.44 |
| 4012 | ENERGY STAR Dishwashers (Electric Water Heating) | SFD | ALL | ROB | 307.0 | 12.1% | 37.0 | 0.158 | 0.026 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with electric water heating | 10.4% | 47.0% | 1.77 |
| 4013 | ENERGY STAR Dishwashers (Gas Water Heating) | SFD | ALL | ROB | 135.1 | 12.1% | 16.3 | 0.070 | 0.026 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with gas water heating | 58.7% | 47.0% | 0.78 |
| 4014 | ENERGY STAR Dehumidifiers | SFD | NLI | ROB | 792.4 | 18.9% | 149.9 | 0.092 | 0.41 | 12 | \$20.21 | Installation of ENERGY STAR dehumidifier instead of standard efficiency unit | 33.0% | 83.9% | 4.97 |
| 4015 | ENERGY STAR Water Coolers | SFD | ALL | ROB | 799.4 | 60.3% | 481.8 | 0.055 | 1.00 | 10 | \$50.00 | Installation of ENERGY STAR water cooler instead of standard efficiency unit | 1.2% | 68.5% | 4.64 |
| 4016 | ENERGY STAR Air Purifier/Cleaner | SFD | ALL | ROB | 587.0 | 66.6% | 391.0 | 0.067 | 1.00 | 9 | \$70.00 | Installation of ENERGY STAR air purifier instead of standard efficiency unit | 5.9% | 33.3% | 2.53 |
| 4017 | ENERGY STAR Dryers | SFD | ALL | ROB | 538.0 | 5.1% | 27.4 | 0.115 | 0.04 | 13 | \$50.00 | Installation of ENERGY STAR dryer instead of standard efficiency unit in homes with electric dryers | 60.0% | 25.0% | 0.37 |
| 4018 | Refrigerator Recycling with Replacement | SFD | LI | Retrofit | 1,034.9 | 43.6% | 451.6 | 0.051 | 1.00 | 7 | \$120.00 | Retirement and replacement of non-primary refrigerators in homes with more than one refrigerator; replacement unit assumed to be standard efficiency model | 25.0% | 0.0% | 1.13 |
| 4019 | Refrigerator Recycling without Replacement | SFD | LI | Retrofit | 1,034.9 | 100.0% | 1,034.9 | 0.116 | 1.00 | 8 | \$120.00 | Retirement (no replacement) of non-primary refrigerators in homes with more than one refrigerator | 25.0% | 0.0% | 3.13 |
| 4020 | ENERGY STAR Refrigerators (Top-Mount) | SFD | LI | ROB | 462.2 | 8.2% | 37.9 | 0.004 | 1.00 | 12 | \$21.83 | Installation of ENERGY STAR top-mount refrigerator instead of standard efficiency unit | 66.0% | 31.0% | 1.02 |
| 4021 | ENERGY STAR Refrigerators (Side-by-Side) | SFD | LI | ROB | 608.9 | 8.6% | 52.5 | 0.006 | 1.00 | 12 | \$57.31 | Installation of ENERGY STAR side-mount refrigerator instead of standard efficiency unit | 19.0% | 31.0% | 0.54 |

Measure Assumptions - Duquesne

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|--|-----------------|---------------|-------------------|
| 4022 | ENERGY STAR Refrigerators (Bottom-Mount) | SFD | LI | ROB | 644.2 | 8.7% | 55.9 | 0.006 | 1.00 | 12 | \$17.29 | Installation of ENERGY STAR bottom-mount refrigerator instead of standard efficiency unit | 11.0% | 31.0% | 1.90 |
| 4023 | ENERGY STAR Freezers (Upright) | SFD | LI | ROB | 483.2 | 9.1% | 44.0 | 0.005 | 1.00 | 12 | \$6.75 | Installation of ENERGY STAR upright freezers instead of standard efficiency unit | 14.6% | 6.0% | 3.81 |
| 4024 | ENERGY STAR Freezers (Chest) | SFD | LI | ROB | 290.1 | 10.0% | 29.0 | 0.003 | 1.00 | 12 | \$5.23 | Installation of ENERGY STAR chest freezers instead of standard efficiency unit | 9.4% | 6.0% | 3.23 |
| 4025 | ENERGY STAR Clothes Washers (Electric Water Heating) | SFD | LI | ROB | 508.2 | 35.5% | 180.4 | 0.721 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 13.4% | 24.0% | 1.95 |
| 4026 | ENERGY STAR Clothes Washers (Gas Water Heating) | SFD | LI | ROB | 205.2 | 20.0% | 41.1 | 0.164 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with gas water heating | 82.6% | 24.0% | 0.44 |
| 4027 | ENERGY STAR Dehumidifiers | SFD | LI | ROB | 792.4 | 18.9% | 149.9 | 0.092 | 0.41 | 12 | \$20.21 | Installation of ENERGY STAR dehumidifier instead of standard efficiency unit | 33.0% | 83.9% | 4.97 |
| 4028 | ENERGY STAR Refrigerators (Top-Mount) | SFD | ALL | NC | 462.2 | 8.2% | 37.9 | 0.004 | 1.00 | 12 | \$21.83 | Installation of ENERGY STAR top-mount refrigerator instead of standard efficiency unit | 66.0% | 0.0% | 1.02 |
| 4029 | ENERGY STAR Refrigerators (Side-by-Side) | SFD | ALL | NC | 608.9 | 8.6% | 52.5 | 0.006 | 1.00 | 12 | \$57.31 | Installation of ENERGY STAR side-mount refrigerator instead of standard efficiency unit | 19.0% | 0.0% | 0.54 |
| 4030 | ENERGY STAR Refrigerators (Bottom-Mount) | SFD | ALL | NC | 644.2 | 8.7% | 55.9 | 0.006 | 1.00 | 12 | \$17.29 | Installation of ENERGY STAR bottom-mount refrigerator instead of standard efficiency unit | 11.0% | 0.0% | 1.90 |
| 4031 | ENERGY STAR Freezers (Upright) | SFD | ALL | NC | 483.2 | 9.1% | 44.0 | 0.005 | 1.00 | 12 | \$6.75 | Installation of ENERGY STAR upright freezers instead of standard efficiency unit | 14.6% | 0.0% | 3.81 |
| 4032 | ENERGY STAR Freezers (Chest) | SFD | ALL | NC | 290.1 | 10.0% | 29.0 | 0.003 | 1.00 | 12 | \$5.23 | Installation of ENERGY STAR chest freezers instead of standard efficiency unit | 9.4% | 0.0% | 3.23 |
| 4033 | ENERGY STAR Clothes Washers (Electric Water Heating) | SFD | ALL | NC | 508.2 | 35.5% | 180.4 | 0.721 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 13.4% | 0.0% | 1.95 |
| 4034 | ENERGY STAR Clothes Washers (Gas Water Heating) | SFD | ALL | NC | 205.2 | 20.0% | 41.1 | 0.164 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 82.6% | 0.0% | 0.44 |
| 4035 | ENERGY STAR Dishwashers (Electric Water Heating) | SFD | ALL | NC | 307.0 | 12.1% | 37.0 | 0.158 | 0.03 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with electric water heating | 10.4% | 0.0% | 1.77 |
| 4036 | ENERGY STAR Dishwashers (Gas Water Heating) | SFD | ALL | NC | 135.1 | 12.1% | 16.3 | 0.070 | 0.03 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with gas water heating | 58.7% | 0.0% | 0.78 |
| 4037 | ENERGY STAR Dehumidifiers | SFD | ALL | NC | 792.4 | 18.9% | 149.9 | 0.092 | 0.41 | 12 | \$20.21 | Installation of ENERGY STAR dehumidifier instead of standard efficiency unit | 33.0% | 0.0% | 4.97 |
| 4038 | ENERGY STAR Water Coolers | SFD | ALL | NC | 799.4 | 60.3% | 481.8 | 0.055 | 1.00 | 10 | \$50.00 | Installation of ENERGY STAR water cooler instead of standard efficiency unit | 1.2% | 0.0% | 4.64 |
| 4039 | ENERGY STAR Air Purifier/Cleaner | SFD | ALL | NC | 587.0 | 66.6% | 391.0 | 0.067 | 1.00 | 9 | \$70.00 | Installation of ENERGY STAR air purifier instead of standard efficiency unit | 5.9% | 0.0% | 2.53 |
| 4040 | ENERGY STAR Dryers | SFD | ALL | NC | 538.0 | 5.1% | 27.4 | 0.115 | 0.04 | 13 | \$50.00 | Installation of ENERGY STAR dryer instead of standard efficiency unit in homes with electric dryers | 60.0% | 0.0% | 0.37 |
| 4041 | Refrigerator Recycling with Replacement | SFA | NLI | Retrofit | 1,034.9 | 43.6% | 451.6 | 0.051 | 1.00 | 7 | \$120.00 | Retirement and replacement of non-primary refrigerators in homes with more than one refrigerator; replacement unit assumed to be standard efficiency model | 25.0% | 0.0% | 1.13 |
| 4042 | Refrigerator Recycling without Replacement | SFA | NLI | Retrofit | 1,034.9 | 100.0% | 1,034.9 | 0.116 | 1.00 | 8 | \$120.00 | Retirement (no replacement) of non-primary refrigerators in homes with more than one refrigerator | 25.0% | 0.0% | 3.13 |
| 4043 | Freezer Recycling with Replacement | SFA | ALL | Retrofit | 1,097.7 | 52.7% | 578.6 | 0.065 | 1.00 | 7 | \$120.00 | Retirement and replacement of non-primary freezers in homes with more than one freezer; replacement unit assumed to be standard efficiency model | 1.0% | 0.0% | 1.43 |

Measure Assumptions - Duquesne

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|--|-----------------|---------------|-------------------|
| 4044 | Freezer Recycling without Replacement | SFA | ALL | Retrofit | 1,097.7 | 100.0% | 1,097.7 | 0.123 | 1.00 | 8 | \$120.00 | Retirement (no replacement) of non-primary refrigerators in homes with more than one refrigerator | 1.0% | 0.0% | 3.29 |
| 4045 | ENERGY STAR Refrigerators (Top-Mount) | SFA | NLI | ROB | 462.2 | 8.2% | 37.9 | 0.004 | 1.00 | 12 | \$21.83 | Installation of ENERGY STAR top-mount refrigerator instead of standard efficiency unit | 66.0% | 31.0% | 1.02 |
| 4046 | ENERGY STAR Refrigerators (Side-by-Side) | SFA | NLI | ROB | 608.9 | 8.6% | 52.5 | 0.006 | 1.00 | 12 | \$57.31 | Installation of ENERGY STAR side-mount refrigerator instead of standard efficiency unit | 19.0% | 31.0% | 0.54 |
| 4047 | ENERGY STAR Refrigerators (Bottom-Mount) | SFA | NLI | ROB | 644.2 | 8.7% | 55.9 | 0.006 | 1.00 | 12 | \$17.29 | Installation of ENERGY STAR bottom-mount refrigerator instead of standard efficiency unit | 11.0% | 31.0% | 1.90 |
| 4048 | ENERGY STAR Freezers (Upright) | SFA | NLI | ROB | 483.2 | 9.1% | 44.0 | 0.005 | 1.00 | 12 | \$6.75 | Installation of ENERGY STAR upright freezers instead of standard efficiency unit | 14.6% | 6.0% | 3.81 |
| 4049 | ENERGY STAR Freezers (Chest) | SFA | NLI | ROB | 290.1 | 10.0% | 29.0 | 0.003 | 1.00 | 12 | \$5.23 | Installation of ENERGY STAR chest freezers instead of standard efficiency unit | 9.4% | 6.0% | 3.23 |
| 4050 | ENERGY STAR Clothes Washers (Electric Water Heating) | SFA | NLI | ROB | 508.2 | 35.5% | 180.4 | 0.721 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 13.4% | 24.0% | 1.95 |
| 4051 | ENERGY STAR Clothes Washers (Gas Water Heating) | SFA | NLI | ROB | 205.2 | 20.0% | 41.1 | 0.164 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 82.6% | 24.0% | 0.44 |
| 4052 | ENERGY STAR Dishwashers (Electric Water Heating) | SFA | ALL | ROB | 307.0 | 12.1% | 37.0 | 0.158 | 0.03 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with electric water heating | 10.4% | 47.0% | 1.77 |
| 4053 | ENERGY STAR Dishwashers (Gas Water Heating) | SFA | ALL | ROB | 135.1 | 12.1% | 16.3 | 0.070 | 0.03 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with gas water heating | 58.7% | 47.0% | 0.78 |
| 4054 | ENERGY STAR Dehumidifiers | SFA | NLI | ROB | 792.4 | 18.9% | 149.9 | 0.092 | 0.41 | 12 | \$20.21 | Installation of ENERGY STAR dehumidifier instead of standard efficiency unit | 33.0% | 83.9% | 4.97 |
| 4055 | ENERGY STAR Water Coolers | SFA | ALL | ROB | 799.4 | 60.3% | 481.8 | 0.055 | 1.00 | 10 | \$50.00 | Installation of ENERGY STAR water cooler instead of standard efficiency unit | 1.2% | 68.5% | 4.64 |
| 4056 | ENERGY STAR Air Purifier/Cleaner | SFA | ALL | ROB | 587.0 | 66.6% | 391.0 | 0.067 | 1.00 | 9 | \$70.00 | Installation of ENERGY STAR air purifier instead of standard efficiency unit | 5.9% | 33.3% | 2.53 |
| 4057 | ENERGY STAR Dryers | SFA | ALL | ROB | 538.0 | 5.1% | 27.4 | 0.115 | 0.04 | 13 | \$50.00 | Installation of ENERGY STAR dryer instead of standard efficiency unit in homes with electric dryers | 60.0% | 25.0% | 0.37 |
| 4058 | Refrigerator Recycling with Replacement | SFA | LI | Retrofit | 1,034.9 | 43.6% | 451.6 | 0.051 | 1.00 | 7 | \$120.00 | Retirement and replacement of non-primary refrigerators in homes with more than one refrigerator; replacement unit assumed to be standard efficiency model | 25.0% | 0.0% | 1.13 |
| 4059 | Refrigerator Recycling without Replacement | SFA | LI | Retrofit | 1,034.9 | 100.0% | 1,034.9 | 0.116 | 1.00 | 8 | \$120.00 | Retirement (no replacement) of non-primary refrigerators in homes with more than one refrigerator | 25.0% | 0.0% | 3.13 |
| 4060 | ENERGY STAR Refrigerators (Top-Mount) | SFA | LI | ROB | 462.2 | 8.2% | 37.9 | 0.004 | 1.00 | 12 | \$21.83 | Installation of ENERGY STAR top-mount refrigerator instead of standard efficiency unit | 66.0% | 31.0% | 1.02 |
| 4061 | ENERGY STAR Refrigerators (Side-by-Side) | SFA | LI | ROB | 608.9 | 8.6% | 52.5 | 0.006 | 1.00 | 12 | \$57.31 | Installation of ENERGY STAR side-mount refrigerator instead of standard efficiency unit | 19.0% | 31.0% | 0.54 |
| 4062 | ENERGY STAR Refrigerators (Bottom-Mount) | SFA | LI | ROB | 644.2 | 8.7% | 55.9 | 0.006 | 1.00 | 12 | \$17.29 | Installation of ENERGY STAR bottom-mount refrigerator instead of standard efficiency unit | 11.0% | 31.0% | 1.90 |
| 4063 | ENERGY STAR Freezers (Upright) | SFA | LI | ROB | 483.2 | 9.1% | 44.0 | 0.005 | 1.00 | 12 | \$6.75 | Installation of ENERGY STAR upright freezers instead of standard efficiency unit | 14.6% | 6.0% | 3.81 |
| 4064 | ENERGY STAR Freezers (Chest) | SFA | LI | ROB | 290.1 | 10.0% | 29.0 | 0.003 | 1.00 | 12 | \$5.23 | Installation of ENERGY STAR chest freezers instead of standard efficiency unit | 9.4% | 6.0% | 3.23 |
| 4065 | ENERGY STAR Clothes Washers (Electric Water Heating) | SFA | LI | ROB | 508.2 | 35.5% | 180.4 | 0.721 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 13.4% | 24.0% | 1.95 |
| 4066 | ENERGY STAR Clothes Washers (Gas Water Heating) | SFA | LI | ROB | 205.2 | 20.0% | 41.1 | 0.164 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 82.6% | 24.0% | 0.44 |

Measure Assumptions - Duquesne

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|--|-----------------|---------------|-------------------|
| 4067 | ENERGY STAR Dehumidifiers | SFA | LI | ROB | 792.4 | 18.9% | 149.9 | 0.092 | 0.41 | 12 | \$20.21 | Installation of ENERGY STAR dehumidifier instead of standard efficiency unit | 33.0% | 83.9% | 4.97 |
| 4068 | ENERGY STAR Refrigerators (Top-Mount) | SFA | ALL | NC | 462.2 | 8.2% | 37.9 | 0.004 | 1.00 | 12 | \$21.83 | Installation of ENERGY STAR top-mount refrigerator instead of standard efficiency unit | 66.0% | 0.0% | 1.02 |
| 4069 | ENERGY STAR Refrigerators (Side-by-Side) | SFA | ALL | NC | 608.9 | 8.6% | 52.5 | 0.006 | 1.00 | 12 | \$57.31 | Installation of ENERGY STAR side-mount refrigerator instead of standard efficiency unit | 19.0% | 0.0% | 0.54 |
| 4070 | ENERGY STAR Refrigerators (Bottom-Mount) | SFA | ALL | NC | 644.2 | 8.7% | 55.9 | 0.006 | 1.00 | 12 | \$17.29 | Installation of ENERGY STAR bottom-mount refrigerator instead of standard efficiency unit | 11.0% | 0.0% | 1.90 |
| 4071 | ENERGY STAR Freezers (Upright) | SFA | ALL | NC | 483.2 | 9.1% | 44.0 | 0.005 | 1.00 | 12 | \$6.75 | Installation of ENERGY STAR upright freezers instead of standard efficiency unit | 14.6% | 0.0% | 3.81 |
| 4072 | ENERGY STAR Freezers (Chest) | SFA | ALL | NC | 290.1 | 10.0% | 29.0 | 0.003 | 1.00 | 12 | \$5.23 | Installation of ENERGY STAR chest freezers instead of standard efficiency unit | 9.4% | 0.0% | 3.23 |
| 4073 | ENERGY STAR Clothes Washers (Electric Water Heating) | SFA | ALL | NC | 508.2 | 35.5% | 180.4 | 0.721 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 13.4% | 0.0% | 1.95 |
| 4074 | ENERGY STAR Clothes Washers (Gas Water Heating) | SFA | ALL | NC | 205.2 | 20.0% | 41.1 | 0.164 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 82.6% | 0.0% | 0.44 |
| 4075 | ENERGY STAR Dishwashers (Electric Water Heating) | SFA | ALL | NC | 307.0 | 12.1% | 37.0 | 0.158 | 0.03 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with electric water heating | 10.4% | 0.0% | 1.77 |
| 4076 | ENERGY STAR Dishwashers (Gas Water Heating) | SFA | ALL | NC | 135.1 | 12.1% | 16.3 | 0.070 | 0.03 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with gas water heating | 58.7% | 0.0% | 0.78 |
| 4077 | ENERGY STAR Dehumidifiers | SFA | ALL | NC | 792.4 | 18.9% | 149.9 | 0.092 | 0.41 | 12 | \$20.21 | Installation of ENERGY STAR dehumidifier instead of standard efficiency unit | 33.0% | 0.0% | 4.97 |
| 4078 | ENERGY STAR Water Coolers | SFA | ALL | NC | 799.4 | 60.3% | 481.8 | 0.055 | 1.00 | 10 | \$50.00 | Installation of ENERGY STAR water cooler instead of standard efficiency unit | 1.2% | 0.0% | 4.64 |
| 4079 | ENERGY STAR Air Purifier/Cleaner | SFA | ALL | NC | 587.0 | 66.6% | 391.0 | 0.067 | 1.00 | 9 | \$70.00 | Installation of ENERGY STAR air purifier instead of standard efficiency unit | 5.9% | 0.0% | 2.53 |
| 4080 | ENERGY STAR Dryers | SFA | ALL | NC | 538.0 | 5.1% | 27.4 | 0.115 | 0.04 | 13 | \$50.00 | Installation of ENERGY STAR dryer instead of standard efficiency unit in homes with electric dryers | 60.0% | 0.0% | 0.37 |
| 4081 | Refrigerator Recycling with Replacement | MF | NLI | Retrofit | 1,034.9 | 43.6% | 451.6 | 0.051 | 1.00 | 7 | \$120.00 | Retirement and replacement of non-primary refrigerators in homes with more than one refrigerator; replacement unit assumed to be standard efficiency model | 25.0% | 0.0% | 1.13 |
| 4082 | Refrigerator Recycling without Replacement | MF | NLI | Retrofit | 1,034.9 | 100.0% | 1,034.9 | 0.116 | 1.00 | 8 | \$120.00 | Retirement (no replacement) of non-primary refrigerators in homes with more than one refrigerator | 25.0% | 0.0% | 3.13 |
| 4083 | Freezer Recycling with Replacement | MF | ALL | Retrofit | 1,097.7 | 52.7% | 578.6 | 0.065 | 1.00 | 7 | \$120.00 | Retirement and replacement of non-primary freezers in homes with more than one freezer; replacement unit assumed to be standard efficiency model | 1.0% | 0.0% | 1.43 |
| 4084 | Freezer Recycling without Replacement | MF | ALL | Retrofit | 1,097.7 | 100.0% | 1,097.7 | 0.123 | 1.00 | 8 | \$120.00 | Retirement (no replacement) of non-primary refrigerators in homes with more than one refrigerator | 1.0% | 0.0% | 3.29 |
| 4085 | ENERGY STAR Refrigerators (Top-Mount) | MF | NLI | ROB | 462.2 | 8.2% | 37.9 | 0.004 | 1.00 | 12 | \$21.83 | Installation of ENERGY STAR top-mount refrigerator instead of standard efficiency unit | 66.0% | 31.0% | 1.02 |
| 4086 | ENERGY STAR Refrigerators (Side-by-Side) | MF | NLI | ROB | 608.9 | 8.6% | 52.5 | 0.006 | 1.00 | 12 | \$57.31 | Installation of ENERGY STAR side-mount refrigerator instead of standard efficiency unit | 19.0% | 31.0% | 0.54 |
| 4087 | ENERGY STAR Refrigerators (Bottom-Mount) | MF | NLI | ROB | 644.2 | 8.7% | 55.9 | 0.006 | 1.00 | 12 | \$17.29 | Installation of ENERGY STAR bottom-mount refrigerator instead of standard efficiency unit | 11.0% | 31.0% | 1.90 |
| 4088 | ENERGY STAR Freezers (Upright) | MF | NLI | ROB | 483.2 | 9.1% | 44.0 | 0.005 | 1.00 | 12 | \$6.75 | Installation of ENERGY STAR upright freezers instead of standard efficiency unit | 14.6% | 6.0% | 3.81 |
| 4089 | ENERGY STAR Freezers (Chest) | MF | NLI | ROB | 290.1 | 10.0% | 29.0 | 0.003 | 1.00 | 12 | \$5.23 | Installation of ENERGY STAR chest freezers instead of standard efficiency unit | 9.4% | 6.0% | 3.23 |
| 4090 | ENERGY STAR Clothes Washers (Electric Water Heating) | MF | NLI | ROB | 508.2 | 35.5% | 180.4 | 0.721 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 13.4% | 24.0% | 1.95 |

Measure Assumptions - Duquesne

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|--|-----------------|---------------|-------------------|
| 4091 | ENERGY STAR Clothes Washers (Gas Water Heating) | MF | NLI | ROB | 205.2 | 20.0% | 41.1 | 0.164 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 82.6% | 24.0% | 0.44 |
| 4092 | ENERGY STAR Dishwashers (Electric Water Heating) | MF | ALL | ROB | 307.0 | 12.1% | 37.0 | 0.158 | 0.03 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with electric water heating | 10.4% | 47.0% | 1.77 |
| 4093 | ENERGY STAR Dishwashers (Gas Water Heating) | MF | ALL | ROB | 135.1 | 12.1% | 16.3 | 0.070 | 0.03 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with gas water heating | 58.7% | 47.0% | 0.78 |
| 4094 | ENERGY STAR Dehumidifiers | MF | NLI | ROB | 792.4 | 18.9% | 149.9 | 0.092 | 0.41 | 12 | \$20.21 | Installation of ENERGY STAR dehumidifier instead of standard efficiency unit | 33.0% | 83.9% | 4.97 |
| 4095 | ENERGY STAR Water Coolers | MF | ALL | ROB | 799.4 | 60.3% | 481.8 | 0.055 | 1.00 | 10 | \$50.00 | Installation of ENERGY STAR water cooler instead of standard efficiency unit | 1.2% | 68.5% | 4.64 |
| 4096 | ENERGY STAR Air Purifier/Cleaner | MF | ALL | ROB | 587.0 | 66.6% | 391.0 | 0.067 | 1.00 | 9 | \$70.00 | Installation of ENERGY STAR air purifier instead of standard efficiency unit | 5.9% | 33.3% | 2.53 |
| 4097 | ENERGY STAR Dryers | MF | ALL | ROB | 538.0 | 5.1% | 27.4 | 0.115 | 0.04 | 13 | \$50.00 | Installation of ENERGY STAR dryer instead of standard efficiency unit in homes with electric dryers | 60.0% | 25.0% | 0.37 |
| 4098 | Refrigerator Recycling with Replacement | MF | LI | Retrofit | 1,034.9 | 43.6% | 451.6 | 0.051 | 1.00 | 7 | \$120.00 | Retirement and replacement of non-primary refrigerators in homes with more than one refrigerator; replacement unit assumed to be standard efficiency model | 25.0% | 0.0% | 1.13 |
| 4099 | Refrigerator Recycling without Replacement | MF | LI | Retrofit | 1,034.9 | 100.0% | 1,034.9 | 0.116 | 1.00 | 8 | \$120.00 | Retirement (no replacement) of non-primary refrigerators in homes with more than one refrigerator | 25.0% | 0.0% | 3.13 |
| 4100 | ENERGY STAR Refrigerators (Top-Mount) | MF | LI | ROB | 462.2 | 8.2% | 37.9 | 0.004 | 1.00 | 12 | \$21.83 | Installation of ENERGY STAR top-mount refrigerator instead of standard efficiency unit | 66.0% | 31.0% | 1.02 |
| 4101 | ENERGY STAR Refrigerators (Side-by-Side) | MF | LI | ROB | 608.9 | 8.6% | 52.5 | 0.006 | 1.00 | 12 | \$57.31 | Installation of ENERGY STAR side-mount refrigerator instead of standard efficiency unit | 19.0% | 31.0% | 0.54 |
| 4102 | ENERGY STAR Refrigerators (Bottom-Mount) | MF | LI | ROB | 644.2 | 8.7% | 55.9 | 0.006 | 1.00 | 12 | \$17.29 | Installation of ENERGY STAR bottom-mount refrigerator instead of standard efficiency unit | 11.0% | 31.0% | 1.90 |
| 4103 | ENERGY STAR Freezers (Upright) | MF | LI | ROB | 483.2 | 9.1% | 44.0 | 0.005 | 1.00 | 12 | \$6.75 | Installation of ENERGY STAR upright freezers instead of standard efficiency unit | 14.6% | 6.0% | 3.81 |
| 4104 | ENERGY STAR Freezers (Chest) | MF | LI | ROB | 290.1 | 10.0% | 29.0 | 0.003 | 1.00 | 12 | \$5.23 | Installation of ENERGY STAR chest freezers instead of standard efficiency unit | 9.4% | 6.0% | 3.23 |
| 4105 | ENERGY STAR Clothes Washers (Electric Water Heating) | MF | LI | ROB | 508.2 | 35.5% | 180.4 | 0.721 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 13.4% | 24.0% | 1.95 |
| 4106 | ENERGY STAR Clothes Washers (Gas Water Heating) | MF | LI | ROB | 205.2 | 20.0% | 41.1 | 0.164 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 82.6% | 24.0% | 0.44 |
| 4107 | ENERGY STAR Dehumidifiers | MF | LI | ROB | 792.4 | 18.9% | 149.9 | 0.092 | 0.41 | 12 | \$20.21 | Installation of ENERGY STAR dehumidifier instead of standard efficiency unit | 33.0% | 83.9% | 4.97 |
| 4108 | ENERGY STAR Refrigerators (Top-Mount) | MF | ALL | NC | 462.2 | 8.2% | 37.9 | 0.004 | 1.00 | 12 | \$21.83 | Installation of ENERGY STAR top-mount refrigerator instead of standard efficiency unit | 66.0% | 0.0% | 1.02 |
| 4109 | ENERGY STAR Refrigerators (Side-by-Side) | MF | ALL | NC | 608.9 | 8.6% | 52.5 | 0.006 | 1.00 | 12 | \$57.31 | Installation of ENERGY STAR side-mount refrigerator instead of standard efficiency unit | 19.0% | 0.0% | 0.54 |
| 4110 | ENERGY STAR Refrigerators (Bottom-Mount) | MF | ALL | NC | 644.2 | 8.7% | 55.9 | 0.006 | 1.00 | 12 | \$17.29 | Installation of ENERGY STAR bottom-mount refrigerator instead of standard efficiency unit | 11.0% | 0.0% | 1.90 |
| 4111 | ENERGY STAR Freezers (Upright) | MF | ALL | NC | 483.2 | 9.1% | 44.0 | 0.005 | 1.00 | 12 | \$6.75 | Installation of ENERGY STAR upright freezers instead of standard efficiency unit | 14.6% | 0.0% | 3.81 |
| 4112 | ENERGY STAR Freezers (Chest) | MF | ALL | NC | 290.1 | 10.0% | 29.0 | 0.003 | 1.00 | 12 | \$5.23 | Installation of ENERGY STAR chest freezers instead of standard efficiency unit | 9.4% | 0.0% | 3.23 |
| 4113 | ENERGY STAR Clothes Washers (Electric Water Heating) | MF | ALL | NC | 508.2 | 35.5% | 180.4 | 0.721 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 13.4% | 0.0% | 1.95 |

Measure Assumptions - Duquesne

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|--|-----------------|---------------|-------------------|
| 4114 | ENERGY STAR Clothes Washers (Gas Water Heating) | MF | ALL | NC | 205.2 | 20.0% | 41.1 | 0.164 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 82.6% | 0.0% | 0.44 |
| 4115 | ENERGY STAR Dishwashers (Electric Water Heating) | MF | ALL | NC | 307.0 | 12.1% | 37.0 | 0.158 | 0.03 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with electric water heating | 10.4% | 0.0% | 1.77 |
| 4116 | ENERGY STAR Dishwashers (Gas Water Heating) | MF | ALL | NC | 135.1 | 12.1% | 16.3 | 0.070 | 0.03 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with gas water heating | 58.7% | 0.0% | 0.78 |
| 4117 | ENERGY STAR Dehumidifiers | MF | ALL | NC | 792.4 | 18.9% | 149.9 | 0.092 | 0.41 | 12 | \$20.21 | Installation of ENERGY STAR dehumidifier instead of standard efficiency unit | 33.0% | 0.0% | 4.97 |
| 4118 | ENERGY STAR Water Coolers | MF | ALL | NC | 799.4 | 60.3% | 481.8 | 0.055 | 1.00 | 10 | \$50.00 | Installation of ENERGY STAR water cooler instead of standard efficiency unit | 1.2% | 0.0% | 4.64 |
| 4119 | ENERGY STAR Air Purifier/Cleaner | MF | ALL | NC | 587.0 | 66.6% | 391.0 | 0.067 | 1.00 | 9 | \$70.00 | Installation of ENERGY STAR air purifier instead of standard efficiency unit | 5.9% | 0.0% | 2.53 |
| 4120 | ENERGY STAR Dryers | MF | ALL | NC | 538.0 | 5.1% | 27.4 | 0.115 | 0.04 | 13 | \$50.00 | Installation of ENERGY STAR dryer instead of standard efficiency unit in homes with electric dryers | 60.0% | 0.0% | 0.37 |
| 5000 | Consumer Electronics | | | | | | | | | | | | | | |
| 5001 | Smart Strip Plug Outlets - Home Office | SFD | NLI | Retrofit | 48.9 | 100.0% | 48.9 | 0.007 | 0.83 | 10 | \$32.97 | Smart strip plug outlet for home office centers | 97.9% | 4.3% | 0.72 |
| 5002 | Smart Strip Plug Outlets - Entertainment Center | SFD | NLI | Retrofit | 62.1 | 100.0% | 62.1 | 0.009 | 0.90 | 10 | \$32.97 | Smart strip plug outlet for home entertainment centers | 189.1% | 8.3% | 0.93 |
| 5003 | ENERGY STAR Televisions > 50" | SFD | ALL | ROB | 197.1 | 49.3% | 97.1 | 0.053 | 0.17 | 6 | \$1.00 | Installation of high efficiency > 50" diameter television instead of a standard efficiency unit | 82.2% | 86.0% | 25.46 |
| 5004 | ENERGY STAR Televisions < 50" | SFD | ALL | ROB | 96.2 | 49.2% | 47.4 | 0.026 | 0.17 | 6 | \$1.00 | Installation of high efficiency < 50" diameter television instead of a standard efficiency unit | 191.9% | 86.0% | 12.43 |
| 5005 | ENERGY STAR Computer - Desktop | SFD | ALL | ROB | 165.6 | 42.7% | 70.7 | 0.022 | 0.76 | 4 | \$8.00 | Installation of high efficiency desktop computer instead of a standard efficiency unit | 54.0% | 27.5% | 1.91 |
| 5006 | ENERGY STAR Computer - Laptop | SFD | ALL | ROB | 52.8 | 40.8% | 21.5 | 0.007 | 0.76 | 4 | \$1.00 | Installation of high efficiency laptop computer instead of a standard efficiency unit | 112.0% | 75.5% | 4.66 |
| 5007 | ENERGY STAR Fax Machine | SFD | ALL | ROB | 52.1 | 30.0% | 15.6 | 0.002 | 1.00 | 4 | \$1.00 | Installation of high efficiency fax machine instead of a standard efficiency unit | 3.0% | 6.5% | 3.02 |
| 5008 | ENERGY STAR Copier | SFD | ALL | ROB | 182.5 | 25.7% | 46.9 | 0.022 | 0.28 | 6 | \$1.00 | Installation of high efficiency copier instead of a standard efficiency unit | 4.2% | 77.8% | 12.97 |
| 5009 | ENERGY STAR Printer | SFD | ALL | ROB | 43.8 | 55.0% | 24.1 | 0.006 | 0.59 | 5 | \$1.00 | Installation of high efficiency printer instead of a standard efficiency unit | 29.4% | 95.0% | 5.67 |
| 5010 | ENERGY STAR Multifunction | SFD | ALL | ROB | 70.1 | 66.3% | 46.4 | 0.011 | 0.59 | 6 | \$1.00 | Installation of high efficiency multifunction device instead of a standard efficiency unit | 53.2% | 95.0% | 12.83 |
| 5011 | ENERGY STAR Monitors | SFD | ALL | ROB | 73.6 | 32.4% | 23.8 | 0.013 | 0.26 | 4 | \$1.80 | Installation of high efficiency monitors instead of a standard efficiency unit | 54.0% | 73.3% | 2.56 |
| 5012 | Smart Strip Plug Outlets - Home Office | SFD | LI | Retrofit | 48.9 | 100.0% | 48.9 | 0.007 | 0.83 | 10 | \$32.97 | Smart strip plug outlet for home office centers | 97.9% | 4.3% | 0.72 |
| 5013 | Smart Strip Plug Outlets - Entertainment Center | SFD | LI | Retrofit | 62.1 | 100.0% | 62.1 | 0.009 | 0.90 | 10 | \$32.97 | Smart strip plug outlet for home entertainment centers | 189.1% | 8.3% | 0.93 |
| 5014 | Smart Strip Plug Outlets - Home Office | SFD | ALL | NC | 48.9 | 100.0% | 48.9 | 0.007 | 0.83 | 10 | \$32.97 | Smart strip plug outlet for home office centers | 97.9% | 0.0% | 0.72 |
| 5015 | Smart Strip Plug Outlets - Entertainment Center | SFD | ALL | NC | 62.1 | 100.0% | 62.1 | 0.009 | 0.90 | 10 | \$32.97 | Smart strip plug outlet for home entertainment centers | 189.1% | 0.0% | 0.93 |
| 5016 | ENERGY STAR Televisions > 50" | SFD | ALL | NC | 197.1 | 49.3% | 97.1 | 0.053 | 0.17 | 6 | \$1.00 | Installation of high efficiency > 50" diameter television instead of a standard efficiency unit | 82.2% | 0.0% | 25.46 |
| 5017 | ENERGY STAR Televisions < 50" | SFD | ALL | NC | 96.2 | 49.2% | 47.4 | 0.026 | 0.17 | 6 | \$1.00 | Installation of high efficiency < 50" diameter television instead of a standard efficiency unit | 191.9% | 0.0% | 12.43 |
| 5018 | ENERGY STAR Computer - Desktop | SFD | ALL | NC | 165.6 | 42.7% | 70.7 | 0.022 | 0.76 | 4 | \$8.00 | Installation of high efficiency desktop computer instead of a standard efficiency unit | 54.0% | 0.0% | 1.91 |

Measure Assumptions - Duquesne

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|---|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|---|-----------------|---------------|-------------------|
| 5019 | ENERGY STAR Computer - Laptop | SFD | ALL | NC | 52.8 | 40.8% | 21.5 | 0.007 | 0.76 | 4 | \$1.00 | Installation of high efficiency laptop computer instead of a standard efficiency unit | 112.0% | 0.0% | 4.66 |
| 5020 | ENERGY STAR Fax Machine | SFD | ALL | NC | 52.1 | 30.0% | 15.6 | 0.002 | 1.00 | 4 | \$1.00 | Installation of high efficiency fax machine instead of a standard efficiency unit | 3.0% | 0.0% | 3.02 |
| 5021 | ENERGY STAR Copier | SFD | ALL | NC | 182.5 | 25.7% | 46.9 | 0.022 | 0.28 | 6 | \$1.00 | Installation of high efficiency copier instead of a standard efficiency unit | 4.2% | 0.0% | 12.97 |
| 5022 | ENERGY STAR Printer | SFD | ALL | NC | 43.8 | 55.0% | 24.1 | 0.006 | 0.59 | 5 | \$1.00 | Installation of high efficiency printer instead of a standard efficiency unit | 29.4% | 0.0% | 5.67 |
| 5023 | ENERGY STAR Multifunction | SFD | ALL | NC | 70.1 | 66.3% | 46.4 | 0.011 | 0.59 | 6 | \$1.00 | Installation of high efficiency multifunction device instead of a standard efficiency unit | 53.2% | 0.0% | 12.83 |
| 5024 | ENERGY STAR Monitors | SFD | ALL | NC | 73.6 | 32.4% | 23.8 | 0.013 | 0.26 | 4 | \$1.80 | Installation of high efficiency monitors instead of a standard efficiency unit | 54.0% | 0.0% | 2.56 |
| 5025 | Smart Strip Plug Outlets - Home Office | SFA | NLI | Retrofit | 48.9 | 100.0% | 48.9 | 0.007 | 0.83 | 10 | \$32.97 | Smart strip plug outlet for home office centers | 97.9% | 4.3% | 0.72 |
| 5026 | Smart Strip Plug Outlets - Entertainment Center | SFA | NLI | Retrofit | 62.1 | 100.0% | 62.1 | 0.009 | 0.90 | 10 | \$32.97 | Smart strip plug outlet for home entertainment centers | 166.9% | 8.3% | 0.93 |
| 5027 | ENERGY STAR Televisions > 50" | SFA | ALL | ROB | 197.1 | 49.1% | 96.9 | 0.053 | 0.17 | 6 | \$1.00 | Installation of high efficiency > 50" diameter television instead of a standard efficiency unit | 72.6% | 86.0% | 25.40 |
| 5028 | ENERGY STAR Televisions < 50" | SFA | ALL | ROB | 98.1 | 49.3% | 48.4 | 0.027 | 0.17 | 6 | \$1.00 | Installation of high efficiency < 50" diameter television instead of a standard efficiency unit | 169.3% | 86.0% | 12.68 |
| 5029 | ENERGY STAR Computer - Desktop | SFA | ALL | ROB | 165.6 | 42.7% | 70.7 | 0.022 | 0.76 | 4 | \$8.00 | Installation of high efficiency desktop computer instead of a standard efficiency unit | 54.0% | 27.5% | 1.91 |
| 5030 | ENERGY STAR Computer - Laptop | SFA | ALL | ROB | 52.8 | 40.8% | 21.5 | 0.007 | 0.76 | 4 | \$1.00 | Installation of high efficiency laptop computer instead of a standard efficiency unit | 112.0% | 75.5% | 4.66 |
| 5031 | ENERGY STAR Fax Machine | SFA | ALL | ROB | 52.1 | 30.0% | 15.6 | 0.002 | 1.00 | 4 | \$1.00 | Installation of high efficiency fax machine instead of a standard efficiency unit | 3.0% | 6.5% | 3.02 |
| 5032 | ENERGY STAR Copier | SFA | ALL | ROB | 182.5 | 25.7% | 46.9 | 0.022 | 0.28 | 6 | \$1.00 | Installation of high efficiency copier instead of a standard efficiency unit | 1.7% | 77.8% | 12.97 |
| 5033 | ENERGY STAR Printer | SFA | ALL | ROB | 43.8 | 55.0% | 24.1 | 0.006 | 0.59 | 5 | \$1.00 | Installation of high efficiency printer instead of a standard efficiency unit | 29.0% | 95.0% | 5.67 |
| 5034 | ENERGY STAR Multifunction | SFA | ALL | ROB | 70.1 | 66.3% | 46.4 | 0.011 | 0.59 | 6 | \$1.00 | Installation of high efficiency multifunction device instead of a standard efficiency unit | 45.0% | 95.0% | 12.83 |
| 5035 | ENERGY STAR Monitors | SFA | ALL | ROB | 73.6 | 32.4% | 23.8 | 0.013 | 0.26 | 4 | \$1.80 | Installation of high efficiency monitors instead of a standard efficiency unit | 54.0% | 73.3% | 2.56 |
| 5036 | Smart Strip Plug Outlets - Home Office | SFA | LI | Retrofit | 48.9 | 100.0% | 48.9 | 0.007 | 0.83 | 10 | \$32.97 | Smart strip plug outlet for home office centers | 97.9% | 4.3% | 0.72 |
| 5037 | Smart Strip Plug Outlets - Entertainment Center | SFA | LI | Retrofit | 62.1 | 100.0% | 62.1 | 0.009 | 0.90 | 10 | \$32.97 | Smart strip plug outlet for home entertainment centers | 166.9% | 8.3% | 0.93 |
| 5038 | Smart Strip Plug Outlets - Home Office | SFA | ALL | NC | 48.9 | 100.0% | 48.9 | 0.007 | 0.83 | 10 | \$32.97 | Smart strip plug outlet for home office centers | 97.9% | 0.0% | 0.72 |
| 5039 | Smart Strip Plug Outlets - Entertainment Center | SFA | ALL | NC | 62.1 | 100.0% | 62.1 | 0.009 | 0.90 | 10 | \$32.97 | Smart strip plug outlet for home entertainment centers | 166.9% | 0.0% | 0.93 |
| 5040 | ENERGY STAR Televisions > 50" | SFA | ALL | NC | 197.1 | 49.1% | 96.9 | 0.053 | 0.17 | 6 | \$1.00 | Installation of high efficiency > 50" diameter television instead of a standard efficiency unit | 72.6% | 0.0% | 25.40 |
| 5041 | ENERGY STAR Televisions < 50" | SFA | ALL | NC | 98.1 | 49.3% | 48.4 | 0.027 | 0.17 | 6 | \$1.00 | Installation of high efficiency < 50" diameter television instead of a standard efficiency unit | 169.3% | 0.0% | 12.68 |
| 5042 | ENERGY STAR Computer - Desktop | SFA | ALL | NC | 165.6 | 42.7% | 70.7 | 0.022 | 0.76 | 4 | \$8.00 | Installation of high efficiency desktop computer instead of a standard efficiency unit | 54.0% | 0.0% | 1.91 |
| 5043 | ENERGY STAR Computer - Laptop | SFA | ALL | NC | 52.8 | 40.8% | 21.5 | 0.007 | 0.76 | 4 | \$1.00 | Installation of high efficiency laptop computer instead of a standard efficiency unit | 112.0% | 0.0% | 4.66 |
| 5044 | ENERGY STAR Fax Machine | SFA | ALL | NC | 52.1 | 30.0% | 15.6 | 0.002 | 1.00 | 4 | \$1.00 | Installation of high efficiency fax machine instead of a standard efficiency unit | 3.0% | 0.0% | 3.02 |

Measure Assumptions - Duquesne

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|---|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|---|-----------------|---------------|-------------------|
| 5045 | ENERGY STAR Copier | SFA | ALL | NC | 182.5 | 25.7% | 46.9 | 0.022 | 0.28 | 6 | \$1.00 | Installation of high efficiency copier instead of a standard efficiency unit | 1.7% | 0.0% | 12.97 |
| 5046 | ENERGY STAR Printer | SFA | ALL | NC | 43.8 | 55.0% | 24.1 | 0.006 | 0.59 | 5 | \$1.00 | Installation of high efficiency printer instead of a standard efficiency unit | 29.0% | 0.0% | 5.67 |
| 5047 | ENERGY STAR Multifunction | SFA | ALL | NC | 70.1 | 66.3% | 46.4 | 0.011 | 0.59 | 6 | \$1.00 | Installation of high efficiency multifunction device instead of a standard efficiency unit | 45.0% | 0.0% | 12.83 |
| 5048 | ENERGY STAR Monitors | SFA | ALL | NC | 73.6 | 32.4% | 23.8 | 0.013 | 0.26 | 4 | \$1.80 | Installation of high efficiency monitors instead of a standard efficiency unit | 54.0% | 0.0% | 2.56 |
| 5049 | Smart Strip Plug Outlets - Home Office | MF | NLI | Retrofit | 48.9 | 100.0% | 48.9 | 0.007 | 0.83 | 10 | \$32.97 | Smart strip plug outlet for home office centers | 97.9% | 4.3% | 0.72 |
| 5050 | Smart Strip Plug Outlets - Entertainment Center | MF | NLI | Retrofit | 62.1 | 100.0% | 62.1 | 0.009 | 0.90 | 10 | \$32.97 | Smart strip plug outlet for home entertainment centers | 124.8% | 8.3% | 0.93 |
| 5051 | ENERGY STAR Televisions > 50" | MF | ALL | ROB | 197.1 | 50.0% | 98.6 | 0.054 | 0.17 | 6 | \$1.00 | Installation of high efficiency > 50" diameter television instead of a standard efficiency unit | 54.3% | 86.0% | 25.84 |
| 5052 | ENERGY STAR Televisions < 50" | MF | ALL | ROB | 89.1 | 48.7% | 43.4 | 0.024 | 0.17 | 6 | \$1.00 | Installation of high efficiency < 50" diameter television instead of a standard efficiency unit | 126.6% | 86.0% | 11.37 |
| 5053 | ENERGY STAR Computer - Desktop | MF | ALL | ROB | 165.6 | 42.7% | 70.7 | 0.022 | 0.76 | 4 | \$8.00 | Installation of high efficiency desktop computer instead of a standard efficiency unit | 54.0% | 27.5% | 1.91 |
| 5054 | ENERGY STAR Computer - Laptop | MF | ALL | ROB | 52.8 | 40.8% | 21.5 | 0.007 | 0.76 | 4 | \$1.00 | Installation of high efficiency laptop computer instead of a standard efficiency unit | 112.0% | 75.5% | 4.66 |
| 5055 | ENERGY STAR Fax Machine | MF | ALL | ROB | 52.1 | 30.0% | 15.6 | 0.002 | 1.00 | 4 | \$1.00 | Installation of high efficiency fax machine instead of a standard efficiency unit | 3.0% | 6.5% | 3.02 |
| 5056 | ENERGY STAR Copier | MF | ALL | ROB | 182.5 | 25.7% | 46.9 | 0.022 | 0.28 | 6 | \$1.00 | Installation of high efficiency copier instead of a standard efficiency unit | 1.1% | 77.8% | 12.97 |
| 5057 | ENERGY STAR Printer | MF | ALL | ROB | 43.8 | 55.0% | 24.1 | 0.006 | 0.59 | 5 | \$1.00 | Installation of high efficiency printer instead of a standard efficiency unit | 12.6% | 95.0% | 5.67 |
| 5058 | ENERGY STAR Multifunction | MF | ALL | ROB | 70.1 | 66.3% | 46.4 | 0.011 | 0.59 | 6 | \$1.00 | Installation of high efficiency multifunction device instead of a standard efficiency unit | 30.3% | 95.0% | 12.83 |
| 5059 | ENERGY STAR Monitors | MF | ALL | ROB | 73.6 | 32.4% | 23.8 | 0.013 | 0.26 | 4 | \$1.80 | Installation of high efficiency monitors instead of a standard efficiency unit | 54.0% | 73.3% | 2.56 |
| 5060 | Smart Strip Plug Outlets - Home Office | MF | LI | Retrofit | 48.9 | 100.0% | 48.9 | 0.007 | 0.83 | 10 | \$32.97 | Smart strip plug outlet for home office centers | 97.9% | 4.3% | 0.72 |
| 5061 | Smart Strip Plug Outlets - Entertainment Center | MF | LI | Retrofit | 62.1 | 100.0% | 62.1 | 0.009 | 0.90 | 10 | \$32.97 | Smart strip plug outlet for home entertainment centers | 124.8% | 8.3% | 0.93 |
| 5062 | Smart Strip Plug Outlets - Home Office | MF | ALL | NC | 48.9 | 100.0% | 48.9 | 0.007 | 0.83 | 10 | \$32.97 | Smart strip plug outlet for home office centers | 97.9% | 0.0% | 0.72 |
| 5063 | Smart Strip Plug Outlets - Entertainment Center | MF | ALL | NC | 62.1 | 100.0% | 62.1 | 0.009 | 0.90 | 10 | \$32.97 | Smart strip plug outlet for home entertainment centers | 124.8% | 0.0% | 0.93 |
| 5064 | ENERGY STAR Televisions > 50" | MF | ALL | NC | 197.1 | 50.0% | 98.6 | 0.054 | 0.17 | 6 | \$1.00 | Installation of high efficiency > 50" diameter television instead of a standard efficiency unit | 54.3% | 0.0% | 25.84 |
| 5065 | ENERGY STAR Televisions < 50" | MF | ALL | NC | 89.1 | 48.7% | 43.4 | 0.024 | 0.17 | 6 | \$1.00 | Installation of high efficiency < 50" diameter television instead of a standard efficiency unit | 126.6% | 0.0% | 11.37 |
| 5066 | ENERGY STAR Computer - Desktop | MF | ALL | NC | 165.6 | 42.7% | 70.7 | 0.022 | 0.76 | 4 | \$8.00 | Installation of high efficiency desktop computer instead of a standard efficiency unit | 54.0% | 0.0% | 1.91 |
| 5067 | ENERGY STAR Computer - Laptop | MF | ALL | NC | 52.8 | 40.8% | 21.5 | 0.007 | 0.76 | 4 | \$1.00 | Installation of high efficiency laptop computer instead of a standard efficiency unit | 112.0% | 0.0% | 4.66 |
| 5068 | ENERGY STAR Fax Machine | MF | ALL | NC | 52.1 | 30.0% | 15.6 | 0.002 | 1.00 | 4 | \$1.00 | Installation of high efficiency fax machine instead of a standard efficiency unit | 3.0% | 0.0% | 3.02 |
| 5069 | ENERGY STAR Copier | MF | ALL | NC | 182.5 | 25.7% | 46.9 | 0.022 | 0.28 | 6 | \$1.00 | Installation of high efficiency copier instead of a standard efficiency unit | 1.1% | 0.0% | 12.97 |
| 5070 | ENERGY STAR Printer | MF | ALL | NC | 43.8 | 55.0% | 24.1 | 0.006 | 0.59 | 5 | \$1.00 | Installation of high efficiency printer instead of a standard efficiency unit | 12.6% | 0.0% | 5.67 |
| 5071 | ENERGY STAR Multifunction | MF | ALL | NC | 70.1 | 66.3% | 46.4 | 0.011 | 0.59 | 6 | \$1.00 | Installation of high efficiency multifunction device instead of a standard efficiency unit | 30.3% | 0.0% | 12.83 |

Measure Assumptions - Duquesne

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|--|-----------------|---------------|-------------------|
| 5072 | ENERGY STAR Monitors | MF | ALL | NC | 73.6 | 32.4% | 23.8 | 0.013 | 0.26 | 4 | \$1.80 | Installation of high efficiency monitors instead of a standard efficiency unit | 54.0% | 0.0% | 2.56 |
| 6000 | Building Shell | | | | | | | | | | | | | | |
| 6001 | Ceiling Insulation: R-20 to R-60 | SFD | NLI | Retrofit | 6,703.0 | 6.1% | 408.0 | 0.094 | 0.65 | 25 | \$2,648.54 | Addition of R-20 ceiling insulation in adequately insulated homes with heat pumps | 1.3% | 70.3% | 0.12 |
| 6002 | Ceiling Insulation: R-8 to R-38 | SFD | NLI | Retrofit | 7,509.0 | 14.6% | 1,097.0 | 0.261 | 0.65 | 25 | \$1,827.85 | Addition of R-8 ceiling insulation in poorly insulated homes with heat pumps | 1.3% | 91.0% | 0.46 |
| 6003 | Exterior Wall Insulation: R-0 to R-13 | SFD | NLI | Retrofit | 12,755.0 | 48.3% | 6,158.0 | 0.959 | 0.65 | 25 | \$3,069.52 | Addition of exterior wall insulation in poorly homes with heat pumps | 1.3% | 74.5% | 1.45 |
| 6004 | Exterior Wall Insulation: R-0 to R-19 | SFD | NLI | Retrofit | 12,755.0 | 54.0% | 6,893.0 | 1.156 | 0.65 | 25 | \$3,899.12 | Addition of exterior wall insulation in poorly homes with heat pumps | 1.3% | 74.5% | 1.28 |
| 6005 | Floor Insulation: R-0 to R-19 | SFD | NLI | Retrofit | 8,227.0 | 3.2% | 264.0 | -0.218 | 0.65 | 25 | \$2,055.35 | Addition of floor insulation in homes with unconditioned basements or crawl spaces and heat pumps | 0.2% | 42.0% | 0.03 |
| 6006 | Basement Wall Insulation: R-0 to R-13 | SFD | NLI | Retrofit | 6,477.0 | 9.2% | 597.0 | -0.030 | 0.65 | 25 | \$2,816.00 | Addition of basement wall insulation in homes with poorly insulated conditioned basements and heat pumps | 0.3% | 42.0% | 0.13 |
| 6007 | Air Sealing: 13 ACH50 to 9 ACH50 | SFD | NLI | Retrofit | 7,934.0 | 15.5% | 1,231.0 | 0.029 | 0.65 | 15 | \$977.68 | Air sealing in poorly sealed homes with heat pumps | 1.3% | 83.0% | 0.83 |
| 6008 | Air Sealing: 9 ACH50 to 7 ACH50 | SFD | NLI | Retrofit | 6,703.0 | 8.2% | 550.0 | 0.011 | 0.65 | 15 | \$977.68 | Air sealing in adequately sealed homes with heat pumps | 1.3% | 61.0% | 0.37 |
| 6009 | Duct Sealing: 38.5% to 25% (CFM @25Pa) | SFD | NLI | Retrofit | 6,907.0 | 3.0% | 204.0 | 0.034 | 0.65 | 20 | \$744.00 | Duct sealing in homes with poorly sealed ducts and heat pumps | 1.3% | 70.0% | 0.20 |
| 6010 | Duct Sealing: 25% to 16.25% (CFM @25Pa) | SFD | NLI | Retrofit | 6,703.0 | 2.0% | 131.0 | 0.016 | 0.65 | 20 | \$744.00 | Duct sealing in homes with adequately sealed ducts and heat pumps | 1.3% | 57.0% | 0.12 |
| 6011 | Duct Insulation (R-0 to R-8) | SFD | NLI | Retrofit | 6,874.0 | 3.0% | 203.0 | 0.009 | 0.65 | 20 | \$872.20 | Installation of duct insulation in homes with poorly insulated ducts and heat pumps | 1.3% | 37.0% | 0.16 |
| 6012 | Window Film (U=0.51, SHGC=0.24) | SFD | NLI | Retrofit | 7,705.0 | 9.5% | 730.0 | 0.649 | 0.65 | 10 | \$2,064.00 | Installation of window film on single-pane windows in homes with heat pumps | 1.3% | 89.0% | 0.26 |
| 6013 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFD | NLI | Retrofit | 6,703.0 | 4.1% | 276.0 | 0.228 | 0.65 | 20 | \$3,915.70 | Installation of ENERGY STAR windows to replace single-pane windows in homes with heat pumps | 1.3% | 89.0% | 0.07 |
| 6014 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFD | ALL | ROB | 6,703.0 | 4.1% | 276.0 | 0.228 | 0.65 | 20 | \$158.45 | Installation of ENERGY STAR windows instead of double-pane windows in homes with heat pumps | 1.3% | 42.0% | 1.80 |
| 6015 | Radiant Barrier | SFD | ALL | Retrofit | 6,703.0 | 1.1% | 71.0 | 0.057 | 0.65 | 25 | \$1,057.69 | Installation of radiant barriers in homes with heat pumps | 1.3% | 10.0% | 0.07 |
| 6016 | Low Income Weatherization Package | SFD | LI | Retrofit | 8,546.0 | 27.8% | 2,374.0 | 0.197 | 0.65 | 20 | \$6,987.54 | Installation of package of weatherization measures in homes with heat pumps | 1.3% | 70.3% | 0.23 |
| 6017 | Window Film (U=0.51, SHGC=0.24) | SFD | LI | Retrofit | 7,705.0 | 9.5% | 730.0 | 0.649 | 0.65 | 10 | \$2,064.00 | Installation of ENERGY STAR windows to replace single-pane windows in homes with heat pumps | 1.3% | 89.0% | 0.26 |
| 6018 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFD | LI | Retrofit | 6,703.0 | 4.1% | 276.0 | 0.228 | 0.65 | 20 | \$3,915.70 | Installation of ENERGY STAR windows instead of double-pane windows in homes with heat pumps | 1.3% | 89.0% | 0.07 |
| 6019 | Residential New Construction Tier 1 (15% more efficient) | SFD | ALL | NC | 6,179.0 | 27.6% | 1,704.0 | 0.050 | 0.65 | 20 | \$2,561.00 | New home built 15% more efficient than code - in homes with heat pumps | 9.0% | 0.0% | 0.44 |
| 6020 | Residential New Construction Tier 2 (30% more efficient) | SFD | ALL | NC | 6,179.0 | 31.9% | 1,973.0 | 0.127 | 0.65 | 20 | \$3,742.54 | New home built 30% more efficient than code - in homes with heat pumps | 9.0% | 0.0% | 0.36 |
| 6021 | Ceiling Insulation: R-20 to R-60 | SFD | NLI | Retrofit | 14,718.0 | 6.1% | 894.0 | 0.111 | 0.65 | 25 | \$2,648.54 | Addition of R-20 ceiling insulation in adequately insulated homes with non-heat pump electric heating | 7.7% | 70.3% | 0.24 |
| 6022 | Ceiling Insulation: R-8 to R-38 | SFD | NLI | Retrofit | 16,436.0 | 14.3% | 2,356.0 | 0.315 | 0.65 | 25 | \$1,827.85 | Addition of R-8 ceiling insulation in poorly insulated homes with non-heat pump electric heating | 7.7% | 91.0% | 0.92 |
| 6023 | Exterior Wall Insulation: R-0 to R-13 | SFD | NLI | Retrofit | 26,817.0 | 46.0% | 12,333.0 | 1.134 | 0.65 | 25 | \$3,069.52 | Addition of exterior wall insulation in poorly homes with non-heat pump electric heating | 7.7% | 74.5% | 2.77 |
| 6024 | Exterior Wall Insulation: R-0 to R-19 | SFD | NLI | Retrofit | 26,817.0 | 52.1% | 13,983.0 | 1.377 | 0.65 | 25 | \$3,899.12 | Addition of exterior wall insulation in poorly homes with non-heat pump electric heating | 7.7% | 74.5% | 2.49 |
| 6025 | Floor Insulation: R-0 to R-19 | SFD | NLI | Retrofit | 18,213.0 | 5.7% | 1,045.0 | -0.269 | 0.65 | 25 | \$2,055.35 | Addition of floor insulation in homes with unconditioned basements or crawl spaces and non-heat pump electric heating | 1.2% | 42.0% | 0.27 |
| 6026 | Basement Wall Insulation: R-0 to R-13 | SFD | NLI | Retrofit | 14,382.0 | 10.4% | 1,489.0 | -0.040 | 0.65 | 25 | \$2,816.00 | Addition of basement wall insulation in homes with poorly insulated conditioned basements and non-heat pump electric heating | 2.0% | 42.0% | 0.34 |
| 6027 | Air Sealing: 13 ACH50 to 9 ACH50 | SFD | NLI | Retrofit | 17,288.0 | 14.9% | 2,570.0 | 0.038 | 0.65 | 15 | \$977.68 | Air sealing in poorly sealed homes with non-heat pump electric heating | 7.7% | 83.0% | 1.72 |
| 6028 | Air Sealing: 9 ACH50 to 7 ACH50 | SFD | NLI | Retrofit | 14,718.0 | 8.4% | 1,234.0 | 0.015 | 0.65 | 15 | \$977.68 | Air sealing in adequately sealed homes with non-heat pump electric heating | 7.7% | 61.0% | 0.82 |
| 6029 | Duct Sealing: 38.5% to 25% (CFM @25Pa) | SFD | NLI | Retrofit | 15,171.0 | 3.0% | 453.0 | 0.034 | 0.65 | 20 | \$744.00 | Duct sealing in homes with poorly sealed ducts and electric furnaces | 1.5% | 70.0% | 0.42 |
| 6030 | Duct Sealing: 25% to 16.25% (CFM @25Pa) | SFD | NLI | Retrofit | 14,718.0 | 2.1% | 306.0 | 0.023 | 0.65 | 20 | \$744.00 | Duct sealing in homes with adequately sealed ducts and electric furnaces | 1.5% | 57.0% | 0.28 |
| 6031 | Duct Insulation (R-0 to R-8) | SFD | NLI | Retrofit | 15,100.0 | 3.0% | 458.0 | 0.008 | 0.65 | 20 | \$872.20 | Installation of duct insulation in homes with poorly insulated ducts and electric furnaces | 1.5% | 37.0% | 0.34 |
| 6032 | Window Film (U=0.51, SHGC=0.24) | SFD | NLI | Retrofit | 16,788.0 | 6.6% | 1,108.0 | 0.801 | 0.65 | 10 | \$2,064.00 | Installation of window film on single-pane windows in homes with non-heat pump electric heating | 7.7% | 89.0% | 0.36 |
| 6033 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFD | NLI | Retrofit | 14,718.0 | 3.1% | 463.0 | 0.283 | 0.65 | 20 | \$3,915.70 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-heat pump electric heating | 7.7% | 89.0% | 0.11 |
| 6034 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFD | ALL | ROB | 14,718.0 | 3.1% | 463.0 | 0.283 | 0.65 | 20 | \$158.45 | Installation of ENERGY STAR windows instead of double-pane windows in homes with non-heat pump electric heating | 7.7% | 42.0% | 2.72 |

Measure Assumptions - Duquesne

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|--|-----------------|---------------|-------------------|
| 6035 | Radiant Barrier | SFD | ALL | Retrofit | 14,718.0 | 0.8% | 125.0 | 0.076 | 0.65 | 25 | \$1,057.69 | Installation of radiant barriers in homes with non-heat pump electric heating | 7.7% | 10.0% | 0.11 |
| 6036 | Low Income Weatherization Package | SFD | LI | Retrofit | 18,575.0 | 27.4% | 5,085.0 | 0.242 | 0.65 | 20 | \$6,987.54 | Installation of package of weatherization measures in homes with non-heat pump electric heating | 7.7% | 70.3% | 0.49 |
| 6037 | Window Film (U=0.51, SHGC=0.24) | SFD | LI | Retrofit | 16,788.0 | 6.6% | 1,108.0 | 0.801 | 0.65 | 10 | \$2,064.00 | Installation of window film on single-pane windows in homes with non-heat pump electric heating | 7.7% | 89.0% | 0.36 |
| 6038 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFD | LI | Retrofit | 14,718.0 | 3.1% | 463.0 | 0.283 | 0.65 | 20 | \$3,915.70 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-heat pump electric heating | 7.7% | 89.0% | 0.11 |
| 6039 | Ceiling Insulation: R-20 to R-60 | SFD | NLI | Retrofit | 1,741.0 | 4.7% | 82.0 | 0.108 | 0.65 | 25 | \$2,648.54 | Addition of R-20 ceiling insulation in adequately insulated homes with non-electric heating | 91.0% | 70.3% | 0.04 |
| 6040 | Ceiling Insulation: R-8 to R-38 | SFD | NLI | Retrofit | 1,897.0 | 11.3% | 215.0 | 0.312 | 0.65 | 25 | \$1,827.85 | Addition of R-8 ceiling insulation in poorly insulated homes with non-electric heating | 91.0% | 91.0% | 0.16 |
| 6041 | Exterior Wall Insulation: R-0 to R-13 | SFD | NLI | Retrofit | 2,638.0 | 34.7% | 915.0 | 1.130 | 0.65 | 25 | \$3,069.52 | Addition of exterior wall insulation in poorly homes with non-electric heating | 91.0% | 74.5% | 0.37 |
| 6042 | Exterior Wall Insulation: R-0 to R-19 | SFD | NLI | Retrofit | 2,638.0 | 39.3% | 1,038.0 | 1.372 | 0.65 | 25 | \$3,899.12 | Addition of exterior wall insulation in poorly homes with non-electric heating | 91.0% | 74.5% | 0.34 |
| 6043 | Floor Insulation: R-0 to R-19 | SFD | NLI | Retrofit | 1,696.0 | -12.0% | -203.0 | -0.249 | 0.65 | 25 | \$2,055.35 | Addition of floor insulation in homes with unconditioned basements or crawl spaces and non-electric heating | 13.7% | 42.0% | -0.12 |
| 6044 | Basement Wall Insulation: R-0 to R-13 | SFD | NLI | Retrofit | 1,683.0 | -0.7% | -11.0 | -0.049 | 0.65 | 25 | \$2,816.00 | Addition of basement wall insulation in homes with poorly insulated conditioned basements and non-electric heating | 23.3% | 42.0% | -0.01 |
| 6045 | Air Sealing: 13 ACH50 to 9 ACH50 | SFD | NLI | Retrofit | 1,826.0 | 4.7% | 85.0 | 0.037 | 0.65 | 15 | \$977.68 | Air sealing in poorly sealed homes with non-electric heating | 91.0% | 83.0% | 0.07 |
| 6046 | Air Sealing: 9 ACH50 to 7 ACH50 | SFD | NLI | Retrofit | 1,741.0 | 2.2% | 38.0 | 0.014 | 0.65 | 15 | \$977.68 | Air sealing in adequately sealed homes with non-electric heating | 91.0% | 61.0% | 0.03 |
| 6047 | Duct Sealing: 38.5% to 25% (CFM @25Pa) | SFD | NLI | Retrofit | 1,791.0 | 2.8% | 50.0 | 0.035 | 0.65 | 20 | \$744.00 | Duct sealing in homes with poorly sealed ducts and non-electric furnaces | 66.5% | 70.0% | 0.07 |
| 6048 | Duct Sealing: 25% to 16.25% (CFM @25Pa) | SFD | NLI | Retrofit | 1,741.0 | 1.8% | 32.0 | 0.021 | 0.65 | 20 | \$744.00 | Duct sealing in homes with adequately sealed ducts and non-electric furnaces | 66.5% | 57.0% | 0.04 |
| 6049 | Duct Insulation (R-0 to R-8) | SFD | NLI | Retrofit | 1,767.0 | 1.8% | 32.0 | 0.017 | 0.65 | 20 | \$872.20 | Installation of duct insulation in homes with poorly insulated ducts and non-electric furnaces | 66.5% | 37.0% | 0.03 |
| 6050 | Window Film (U=0.51, SHGC=0.24) | SFD | NLI | Retrofit | 1,970.0 | 24.3% | 478.0 | 0.804 | 0.65 | 10 | \$2,064.00 | Installation of window film on single-pane windows in homes with non-electric heating | 91.0% | 89.0% | 0.23 |
| 6051 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFD | NLI | Retrofit | 1,741.0 | 9.6% | 167.0 | 0.283 | 0.65 | 20 | \$3,915.70 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-electric heating | 91.0% | 89.0% | 0.06 |
| 6052 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFD | ALL | ROB | 1,741.0 | 9.6% | 167.0 | 0.283 | 0.65 | 20 | \$158.45 | Installation of ENERGY STAR windows instead of double-pane windows in homes with non-electric heating | 91.0% | 42.0% | 1.52 |
| 6053 | Radiant Barrier | SFD | ALL | Retrofit | 1,741.0 | 2.7% | 47.0 | 0.075 | 0.65 | 25 | \$1,057.69 | Installation of radiant barriers in homes with non-electric heating | 91.0% | 10.0% | 0.06 |
| 6054 | Low Income Weatherization Package | SFD | LI | Retrofit | 1,905.0 | 6.1% | 117.0 | 0.060 | 0.65 | 20 | \$2,276.15 | Installation of package of weatherization measures in homes with non-electric heating | 91.0% | 70.3% | 0.05 |
| 6055 | Window Film (U=0.51, SHGC=0.24) | SFD | LI | Retrofit | 1,970.0 | 24.3% | 478.0 | 0.804 | 0.65 | 10 | \$2,064.00 | Installation of window film on single-pane windows in homes with non-electric heating | 91.0% | 89.0% | 0.23 |
| 6056 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFD | LI | Retrofit | 1,741.0 | 9.6% | 167.0 | 0.283 | 0.65 | 20 | \$3,915.70 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-electric heating | 91.0% | 89.0% | 0.06 |
| 6057 | Residential New Construction Tier 1 (15% more efficient) | SFD | ALL | NC | 1,404.0 | 9.0% | 126.0 | 0.066 | 0.65 | 20 | \$2,561.00 | New home built 15% more efficient than code - in homes with non-electric heating | 91.0% | 0.0% | 0.04 |
| 6058 | Residential New Construction Tier 2 (30% more efficient) | SFD | ALL | NC | 1,404.0 | 30.3% | 425.0 | 0.338 | 0.65 | 20 | \$4,971.41 | New home built 30% more efficient than code - in homes with non-electric heating | 91.0% | 0.0% | 0.09 |
| 6059 | Ceiling Insulation: R-20 to R-60 | SFA | NLI | Retrofit | 5,337.0 | 7.3% | 392.0 | 0.105 | 0.65 | 25 | \$2,567.00 | Addition of R-20 ceiling insulation in adequately insulated homes with heat pumps | 1.3% | 70.3% | 0.12 |
| 6060 | Ceiling Insulation: R-8 to R-38 | SFA | NLI | Retrofit | 6,100.0 | 17.1% | 1,043.0 | 0.280 | 0.65 | 25 | \$1,771.58 | Addition of R-8 ceiling insulation in poorly insulated homes with heat pumps | 1.3% | 91.0% | 0.46 |
| 6061 | Exterior Wall Insulation: R-0 to R-13 | SFA | NLI | Retrofit | 8,558.0 | 38.3% | 3,276.0 | 0.539 | 0.65 | 25 | \$2,968.88 | Addition of exterior wall insulation in poorly homes with heat pumps | 1.3% | 74.5% | 0.80 |
| 6062 | Exterior Wall Insulation: R-0 to R-19 | SFA | NLI | Retrofit | 8,558.0 | 43.1% | 3,687.0 | 0.636 | 0.65 | 25 | \$3,771.28 | Addition of exterior wall insulation in poorly homes with heat pumps | 1.3% | 74.5% | 0.71 |
| 6063 | Floor Insulation: R-0 to R-19 | SFA | NLI | Retrofit | 5,581.0 | 5.1% | 284.0 | -0.168 | 0.65 | 25 | \$1,572.50 | Addition of floor insulation in homes with unconditioned basements or crawl spaces and heat pumps | 0.2% | 42.0% | 0.07 |
| 6064 | Basement Wall Insulation: R-0 to R-13 | SFA | NLI | Retrofit | 4,332.0 | 9.5% | 411.0 | -0.012 | 0.65 | 25 | \$2,406.40 | Addition of basement wall insulation in homes with poorly insulated conditioned basements and heat pumps | 0.3% | 42.0% | 0.11 |
| 6065 | Air Sealing: 13 ACH50 to 9 ACH50 | SFA | NLI | Retrofit | 6,468.0 | 17.5% | 1,131.0 | 0.028 | 0.65 | 15 | \$748.00 | Air sealing in poorly sealed homes with heat pumps | 1.3% | 83.0% | 1.00 |
| 6066 | Air Sealing: 9 ACH50 to 7 ACH50 | SFA | NLI | Retrofit | 5,337.0 | 9.8% | 525.0 | 0.023 | 0.65 | 15 | \$748.00 | Air sealing in adequately sealed homes with heat pumps | 1.3% | 61.0% | 0.47 |
| 6067 | Duct Sealing: 38.5% to 25% (CFM @25Pa) | SFA | NLI | Retrofit | 5,508.0 | 3.1% | 171.0 | 0.017 | 0.65 | 20 | \$744.00 | Duct sealing in homes with poorly sealed ducts and heat pumps | 1.3% | 70.0% | 0.16 |
| 6068 | Duct Sealing: 25% to 16.25% (CFM @25Pa) | SFA | NLI | Retrofit | 5,337.0 | 2.1% | 111.0 | 0.011 | 0.65 | 20 | \$744.00 | Duct sealing in homes with adequately sealed ducts and heat pumps | 1.3% | 57.0% | 0.10 |
| 6069 | Duct Insulation (R-0 to R-8) | SFA | NLI | Retrofit | 5,478.0 | 3.0% | 164.0 | 0.000 | 0.65 | 20 | \$666.40 | Installation of duct insulation in homes with poorly insulated ducts and heat pumps | 1.3% | 37.0% | 0.16 |
| 6070 | Window Film (U=0.51, SHGC=0.24) | SFA | NLI | Retrofit | 6,017.0 | 8.7% | 524.0 | 0.449 | 0.65 | 10 | \$1,392.00 | Installation of window film on single-pane windows in homes with heat pumps | 1.3% | 89.0% | 0.27 |

Measure Assumptions - Duquesne

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|--|-----------------|---------------|-------------------|
| 6071 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFA | NLI | Retrofit | 5,337.0 | 3.9% | 208.0 | 0.167 | 0.65 | 20 | \$2,640.82 | Installation of ENERGY STAR windows to replace single-pane windows in homes with heat pumps | 1.3% | 89.0% | 0.08 |
| 6072 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFA | ALL | ROB | 5,337.0 | 3.9% | 208.0 | 0.167 | 0.65 | 20 | \$106.86 | Installation of ENERGY STAR windows instead of double-pane windows in homes with heat pumps | 1.3% | 42.0% | 1.99 |
| 6073 | Low Income Weatherization Package | SFA | LI | Retrofit | 6,912.0 | 29.9% | 2,065.0 | 0.149 | 0.65 | 20 | \$4,938.29 | Installation of package of weatherization measures in homes with heat pumps | 1.3% | 70.3% | 0.28 |
| 6074 | Window Film (U=0.51, SHGC=0.24) | SFA | LI | Retrofit | 6,017.0 | 8.7% | 524.0 | 0.449 | 0.65 | 10 | \$1,392.00 | Installation of window film on single-pane windows in homes with heat pumps | 1.3% | 89.0% | 0.27 |
| 6075 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFA | LI | Retrofit | 5,337.0 | 3.9% | 208.0 | 0.167 | 0.65 | 20 | \$2,640.82 | Installation of ENERGY STAR windows to replace single-pane windows in homes with heat pumps | 1.3% | 89.0% | 0.08 |
| 6076 | Residential New Construction Tier 1 (15% more efficient) | SFA | ALL | NC | 5,044.0 | 33.9% | 1,709.0 | 0.075 | 0.65 | 20 | \$2,561.00 | New home built 15% more efficient than code - in homes with heat pumps | 9.0% | 0.0% | 0.45 |
| 6077 | Residential New Construction Tier 2 (30% more efficient) | SFA | ALL | NC | 5,044.0 | 34.8% | 1,753.0 | 0.133 | 0.65 | 20 | \$3,345.67 | New home built 30% more efficient than code - in homes with heat pumps | 9.0% | 0.0% | 0.36 |
| 6078 | Ceiling Insulation: R-20 to R-60 | SFA | NLI | Retrofit | 11,398.0 | 8.1% | 920.0 | 0.122 | 0.65 | 25 | \$2,567.00 | Addition of R-20 ceiling insulation in adequately insulated homes with non-heat pump electric heating | 7.7% | 70.3% | 0.25 |
| 6079 | Ceiling Insulation: R-8 to R-38 | SFA | NLI | Retrofit | 13,124.0 | 18.1% | 2,382.0 | 0.336 | 0.65 | 25 | \$1,771.58 | Addition of R-8 ceiling insulation in poorly insulated homes with non-heat pump electric heating | 7.7% | 91.0% | 0.96 |
| 6080 | Exterior Wall Insulation: R-0 to R-13 | SFA | NLI | Retrofit | 18,444.0 | 38.9% | 7,181.0 | 0.635 | 0.65 | 25 | \$2,968.88 | Addition of exterior wall insulation in poorly homes with non-heat pump electric heating | 7.7% | 74.5% | 1.67 |
| 6081 | Exterior Wall Insulation: R-0 to R-19 | SFA | NLI | Retrofit | 18,444.0 | 44.1% | 8,127.0 | 0.762 | 0.65 | 25 | \$3,771.28 | Addition of exterior wall insulation in poorly homes with non-heat pump electric heating | 7.7% | 74.5% | 1.49 |
| 6082 | Floor Insulation: R-0 to R-19 | SFA | NLI | Retrofit | 12,306.0 | 8.7% | 1,072.0 | -0.209 | 0.65 | 25 | \$1,572.50 | Addition of floor insulation in homes with unconditioned basements or crawl spaces and non-heat pump electric heating | 1.2% | 42.0% | 0.38 |
| 6083 | Basement Wall Insulation: R-0 to R-13 | SFA | NLI | Retrofit | 9,183.0 | 11.7% | 1,076.0 | -0.022 | 0.65 | 25 | \$2,406.40 | Addition of basement wall insulation in homes with poorly insulated conditioned basements and non-heat pump electric heating | 2.0% | 42.0% | 0.29 |
| 6084 | Air Sealing: 13 ACH50 to 9 ACH50 | SFA | NLI | Retrofit | 13,969.0 | 18.4% | 2,571.0 | 0.043 | 0.65 | 15 | \$748.00 | Air sealing in poorly sealed homes with non-heat pump electric heating | 7.7% | 83.0% | 2.25 |
| 6085 | Air Sealing: 9 ACH50 to 7 ACH50 | SFA | NLI | Retrofit | 11,398.0 | 11.1% | 1,269.0 | 0.024 | 0.65 | 15 | \$748.00 | Air sealing in adequately sealed homes with non-heat pump electric heating | 7.7% | 61.0% | 1.11 |
| 6086 | Duct Sealing: 38.5% to 25% (CFM @25Pa) | SFA | NLI | Retrofit | 11,773.0 | 3.2% | 375.0 | 0.018 | 0.65 | 20 | \$744.00 | Duct sealing in homes with poorly sealed ducts and electric furnaces | 1.5% | 70.0% | 0.34 |
| 6087 | Duct Sealing: 25% to 16.25% (CFM @25Pa) | SFA | NLI | Retrofit | 11,398.0 | 2.2% | 255.0 | 0.018 | 0.65 | 20 | \$744.00 | Duct sealing in homes with adequately sealed ducts and electric furnaces | 1.5% | 57.0% | 0.23 |
| 6088 | Duct Insulation (R-0 to R-8) | SFA | NLI | Retrofit | 11,665.0 | 2.7% | 317.0 | 0.001 | 0.65 | 20 | \$666.40 | Installation of duct insulation in homes with poorly insulated ducts and electric furnaces | 1.5% | 37.0% | 0.31 |
| 6089 | Window Film (U=0.51, SHGC=0.24) | SFA | NLI | Retrofit | 12,889.0 | 6.3% | 813.0 | 0.553 | 0.65 | 10 | \$1,392.00 | Installation of window film on single-pane windows in homes with non-heat pump electric heating | 7.7% | 89.0% | 0.38 |
| 6090 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFA | NLI | Retrofit | 11,398.0 | 3.1% | 354.0 | 0.206 | 0.65 | 20 | \$2,640.82 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-heat pump electric heating | 7.7% | 89.0% | 0.12 |
| 6091 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFA | ALL | ROB | 11,398.0 | 3.1% | 354.0 | 0.206 | 0.65 | 20 | \$106.86 | Installation of ENERGY STAR windows instead of double-pane windows in homes with non-heat pump electric heating | 7.7% | 42.0% | 3.04 |
| 6092 | Low Income Weatherization Package | SFA | LI | Retrofit | 14,751.0 | 30.8% | 4,549.0 | 0.166 | 0.65 | 20 | \$4,938.29 | Installation of package of weatherization measures in homes with non-heat pump electric heating | 7.7% | 70.3% | 0.61 |
| 6093 | Window Film (U=0.51, SHGC=0.24) | SFA | LI | Retrofit | 12,889.0 | 6.3% | 813.0 | 0.553 | 0.65 | 10 | \$1,392.00 | Installation of window film on single-pane windows in homes with non-heat pump electric heating | 7.7% | 89.0% | 0.38 |
| 6094 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFA | LI | Retrofit | 11,398.0 | 3.1% | 354.0 | 0.206 | 0.65 | 20 | \$2,640.82 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-heat pump electric heating | 7.7% | 89.0% | 0.12 |
| 6095 | Ceiling Insulation: R-20 to R-60 | SFA | NLI | Retrofit | 1,600.0 | 5.1% | 82.0 | 0.123 | 0.65 | 25 | \$2,567.00 | Addition of R-20 ceiling insulation in adequately insulated homes with non-electric heating | 91.0% | 70.3% | 0.04 |
| 6096 | Ceiling Insulation: R-8 to R-38 | SFA | NLI | Retrofit | 1,756.0 | 12.2% | 215.0 | 0.334 | 0.65 | 25 | \$1,771.58 | Addition of R-8 ceiling insulation in poorly insulated homes with non-electric heating | 91.0% | 91.0% | 0.17 |
| 6097 | Exterior Wall Insulation: R-0 to R-13 | SFA | NLI | Retrofit | 2,181.0 | 27.1% | 592.0 | 0.631 | 0.65 | 25 | \$2,968.88 | Addition of exterior wall insulation in poorly homes with non-electric heating | 91.0% | 74.5% | 0.23 |
| 6098 | Exterior Wall Insulation: R-0 to R-19 | SFA | NLI | Retrofit | 2,181.0 | 30.6% | 668.0 | 0.759 | 0.65 | 25 | \$3,771.28 | Addition of exterior wall insulation in poorly homes with non-electric heating | 91.0% | 74.5% | 0.21 |
| 6099 | Floor Insulation: R-0 to R-19 | SFA | NLI | Retrofit | 1,451.0 | -12.1% | -176.0 | -0.188 | 0.65 | 25 | \$1,572.50 | Addition of floor insulation in homes with unconditioned basements or crawl spaces and non-electric heating | 13.7% | 42.0% | -0.13 |
| 6100 | Basement Wall Insulation: R-0 to R-13 | SFA | NLI | Retrofit | 1,398.0 | -0.9% | -12.0 | 0.065 | 0.65 | 25 | \$2,406.40 | Addition of basement wall insulation in homes with poorly insulated conditioned basements and non-electric heating | 23.3% | 42.0% | 0.01 |
| 6101 | Air Sealing: 13 ACH50 to 9 ACH50 | SFA | NLI | Retrofit | 1,682.0 | 4.9% | 82.0 | 0.041 | 0.65 | 15 | \$748.00 | Air sealing in poorly sealed homes with non-electric heating | 91.0% | 83.0% | 0.10 |
| 6102 | Air Sealing: 9 ACH50 to 7 ACH50 | SFA | NLI | Retrofit | 1,600.0 | 2.6% | 41.0 | 0.024 | 0.65 | 15 | \$748.00 | Air sealing in adequately sealed homes with non-electric heating | 91.0% | 61.0% | 0.05 |
| 6103 | Duct Sealing: 38.5% to 25% (CFM @25Pa) | SFA | NLI | Retrofit | 1,632.0 | 2.0% | 32.0 | 0.025 | 0.65 | 20 | \$744.00 | Duct sealing in homes with poorly sealed ducts and non-electric furnaces | 66.5% | 70.0% | 0.04 |
| 6104 | Duct Sealing: 25% to 16.25% (CFM @25Pa) | SFA | NLI | Retrofit | 1,600.0 | 1.4% | 23.0 | 0.011 | 0.65 | 20 | \$744.00 | Duct sealing in homes with adequately sealed ducts and non-electric furnaces | 66.5% | 57.0% | 0.03 |

Measure Assumptions - Duquesne

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|---|-----------------|---------------|-------------------|
| 6105 | Duct Insulation (R-0 to R-8) | SFA | NLI | Retrofit | 1,612.0 | 0.9% | 15.0 | 0.004 | 0.65 | 20 | \$666.40 | Installation of duct insulation in homes with poorly insulated ducts and non-electric furnaces | 66.5% | 37.0% | 0.02 |
| 6106 | Window Film (U=0.51, SHGC=0.24) | SFA | NLI | Retrofit | 1,785.0 | 23.6% | 422.0 | 0.555 | 0.65 | 10 | \$1,392.00 | Installation of window film on single-pane windows in homes with non-electric heating | 91.0% | 89.0% | 0.27 |
| 6107 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFA | NLI | Retrofit | 1,600.0 | 9.7% | 155.0 | 0.200 | 0.65 | 20 | \$2,640.82 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-electric heating | 91.0% | 89.0% | 0.07 |
| 6108 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFA | ALL | ROB | 1,600.0 | 9.7% | 155.0 | 0.200 | 0.65 | 20 | \$106.86 | Installation of ENERGY STAR windows instead of double-pane windows in homes with non-electric heating | 91.0% | 42.0% | 1.82 |
| 6109 | Low Income Weatherization Package | SFA | LI | Retrofit | 1,720.0 | 6.4% | 110.0 | 0.059 | 0.65 | 20 | \$1,915.64 | Installation of package of weatherization measures in homes with non-electric heating | 91.0% | 70.3% | 0.05 |
| 6110 | Window Film (U=0.51, SHGC=0.24) | SFA | LI | Retrofit | 1,785.0 | 23.6% | 422.0 | 0.555 | 0.65 | 10 | \$1,392.00 | Installation of window film on single-pane windows in homes with non-electric heating | 91.0% | 89.0% | 0.27 |
| 6111 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFA | LI | Retrofit | 1,600.0 | 9.7% | 155.0 | 0.200 | 0.65 | 20 | \$2,640.82 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-electric heating | 91.0% | 89.0% | 0.07 |
| 6112 | Residential New Construction Tier 1 (15% more efficient) | SFA | ALL | NC | 1,275.0 | 9.9% | 126.0 | 0.082 | 0.65 | 20 | \$2,561.00 | New home built 15% more efficient than code - in homes with non-electric heating | 91.0% | 0.0% | 0.05 |
| 6113 | Residential New Construction Tier 2 (30% more efficient) | SFA | ALL | NC | 1,275.0 | 22.8% | 291.0 | 0.276 | 0.65 | 20 | \$4,302.19 | New home built 30% more efficient than code - in homes with non-electric heating | 91.0% | 0.0% | 0.07 |
| 6114 | Exterior Wall Insulation: R-0 to R-13 | MF | NLI | Retrofit | 3,402.0 | 37.3% | 1,268.0 | 0.271 | 0.65 | 25 | \$1,509.60 | Addition of exterior wall insulation in poorly homes with heat pumps | 1.3% | 74.5% | 0.63 |
| 6115 | Exterior Wall Insulation: R-0 to R-19 | MF | NLI | Retrofit | 3,402.0 | 42.1% | 1,433.0 | 0.321 | 0.65 | 25 | \$1,917.60 | Addition of exterior wall insulation in poorly homes with heat pumps | 1.3% | 74.5% | 0.56 |
| 6116 | Air Sealing: 13 ACH50 to 9 ACH50 | MF | NLI | Retrofit | 2,468.0 | 12.7% | 313.0 | 0.017 | 0.65 | 15 | \$385.00 | Air sealing in poorly sealed homes with heat pumps | 1.3% | 83.0% | 0.55 |
| 6117 | Air Sealing: 9 ACH50 to 7 ACH50 | MF | NLI | Retrofit | 2,155.0 | 6.8% | 147.0 | 0.014 | 0.65 | 15 | \$385.00 | Air sealing in adequately sealed homes with heat pumps | 1.3% | 61.0% | 0.26 |
| 6118 | Duct Sealing: 38.5% to 25% (CFM @25Pa) | MF | NLI | Retrofit | 2,379.0 | 9.4% | 224.0 | 0.110 | 0.65 | 20 | \$744.00 | Duct sealing in homes with poorly sealed ducts and heat pumps | 1.3% | 70.0% | 0.26 |
| 6119 | Duct Sealing: 25% to 16.25% (CFM @25Pa) | MF | NLI | Retrofit | 2,155.0 | 5.5% | 119.0 | 0.065 | 0.65 | 20 | \$744.00 | Duct sealing in homes with adequately sealed ducts and heat pumps | 1.3% | 57.0% | 0.14 |
| 6120 | Duct Insulation (R-0 to R-8) | MF | NLI | Retrofit | 2,403.0 | 12.1% | 290.0 | 0.185 | 0.65 | 20 | \$453.60 | Installation of duct insulation in homes with poorly insulated ducts and heat pumps | 1.3% | 37.0% | 0.60 |
| 6121 | Window Film (U=0.51, SHGC=0.24) | MF | NLI | Retrofit | 2,591.0 | 17.2% | 445.0 | 0.255 | 0.65 | 10 | \$924.00 | Installation of window film on single-pane windows in homes with heat pumps | 1.3% | 89.0% | 0.30 |
| 6122 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | MF | NLI | Retrofit | 2,155.0 | 8.2% | 176.0 | 0.097 | 0.65 | 20 | \$1,752.96 | Installation of ENERGY STAR windows to replace single-pane windows in homes with heat pumps | 1.3% | 89.0% | 0.09 |
| 6123 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | MF | ALL | ROB | 2,155.0 | 8.2% | 176.0 | 0.097 | 0.65 | 20 | \$70.93 | Installation of ENERGY STAR windows instead of double-pane windows in homes with heat pumps | 1.3% | 42.0% | 2.24 |
| 6124 | Low Income Weatherization Package | MF | LI | Retrofit | 2,589.0 | 22.2% | 576.0 | 0.117 | 0.65 | 20 | \$1,828.02 | Installation of package of weatherization measures in homes with heat pumps | 1.3% | 70.3% | 0.23 |
| 6125 | Window Film (U=0.51, SHGC=0.24) | MF | LI | Retrofit | 2,591.0 | 17.2% | 445.0 | 0.255 | 0.65 | 10 | \$924.00 | Installation of window film on single-pane windows in homes with heat pumps | 1.3% | 89.0% | 0.30 |
| 6126 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | MF | LI | Retrofit | 2,155.0 | 8.2% | 176.0 | 0.097 | 0.65 | 20 | \$1,752.96 | Installation of ENERGY STAR windows to replace single-pane windows in homes with heat pumps | 1.3% | 89.0% | 0.09 |
| 6127 | Residential New Construction Tier 1 (15% more efficient) | MF | ALL | NC | 1,812.0 | 24.0% | 435.0 | 0.096 | 0.65 | 20 | \$2,561.00 | New home built 15% more efficient than code - in homes with heat pumps | 9.0% | 0.0% | 0.13 |
| 6128 | Residential New Construction Tier 2 (30% more efficient) | MF | ALL | NC | 1,812.0 | 27.0% | 490.0 | 0.106 | 0.65 | 20 | \$3,345.67 | New home built 30% more efficient than code - in homes with heat pumps | 9.0% | 0.0% | 0.11 |
| 6129 | Exterior Wall Insulation: R-0 to R-13 | MF | NLI | Retrofit | 6,117.0 | 44.7% | 2,733.0 | 0.319 | 0.65 | 25 | \$1,509.60 | Addition of exterior wall insulation in poorly homes with non-heat pump electric heating | 7.7% | 74.5% | 1.27 |
| 6130 | Exterior Wall Insulation: R-0 to R-19 | MF | NLI | Retrofit | 6,117.0 | 50.3% | 3,075.0 | 0.384 | 0.65 | 25 | \$1,917.60 | Addition of exterior wall insulation in poorly homes with non-heat pump electric heating | 7.7% | 74.5% | 1.13 |
| 6131 | Air Sealing: 13 ACH50 to 9 ACH50 | MF | NLI | Retrofit | 4,170.0 | 17.8% | 741.0 | 0.025 | 0.65 | 15 | \$385.00 | Air sealing in poorly sealed homes with non-heat pump electric heating | 7.7% | 83.0% | 1.28 |
| 6132 | Air Sealing: 9 ACH50 to 7 ACH50 | MF | NLI | Retrofit | 3,429.0 | 10.3% | 352.0 | 0.013 | 0.65 | 15 | \$385.00 | Air sealing in adequately sealed homes with non-heat pump electric heating | 7.7% | 61.0% | 0.61 |
| 6133 | Duct Sealing: 38.5% to 25% (CFM @25Pa) | MF | NLI | Retrofit | 3,678.0 | 6.8% | 249.0 | 0.134 | 0.65 | 20 | \$744.00 | Duct sealing in homes with poorly sealed ducts and electric furnaces | 1.5% | 70.0% | 0.30 |
| 6134 | Duct Sealing: 25% to 16.25% (CFM @25Pa) | MF | NLI | Retrofit | 3,429.0 | 4.5% | 153.0 | 0.078 | 0.65 | 20 | \$744.00 | Duct sealing in homes with adequately sealed ducts and electric furnaces | 1.5% | 57.0% | 0.18 |
| 6135 | Duct Insulation (R-0 to R-8) | MF | NLI | Retrofit | 3,690.0 | 8.3% | 308.0 | 0.219 | 0.65 | 20 | \$453.60 | Installation of duct insulation in homes with poorly insulated ducts and electric furnaces | 1.5% | 37.0% | 0.66 |
| 6136 | Window Film (U=0.51, SHGC=0.24) | MF | NLI | Retrofit | 4,315.0 | 16.5% | 713.0 | 0.310 | 0.65 | 10 | \$924.00 | Installation of window film on single-pane windows in homes with non-heat pump electric heating | 7.7% | 89.0% | 0.44 |
| 6137 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | MF | NLI | Retrofit | 3,429.0 | 8.7% | 299.0 | 0.120 | 0.65 | 20 | \$1,752.96 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-heat pump electric heating | 7.7% | 89.0% | 0.14 |
| 6138 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | MF | ALL | ROB | 3,429.0 | 8.7% | 299.0 | 0.120 | 0.65 | 20 | \$70.93 | Installation of ENERGY STAR windows instead of double-pane windows in homes with non-heat pump electric heating | 7.7% | 42.0% | 3.52 |
| 6139 | Low Income Weatherization Package | MF | LI | Retrofit | 4,429.0 | 27.2% | 1,203.0 | 0.150 | 0.65 | 20 | \$1,828.02 | Installation of package of weatherization measures in homes with non-heat pump electric heating | 7.7% | 70.3% | 0.46 |
| 6140 | Window Film (U=0.51, SHGC=0.24) | MF | LI | Retrofit | 4,315.0 | 16.5% | 713.0 | 0.310 | 0.65 | 10 | \$924.00 | Installation of window film on single-pane windows in homes with non-heat pump electric heating | 7.7% | 89.0% | 0.44 |

Measure Assumptions - Duquesne

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|---|-----------------|---------------|-------------------|
| 6141 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | MF | LI | Retrofit | 3,429.0 | 8.7% | 299.0 | 0.120 | 0.65 | 20 | \$1,752.96 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-heat pump electric heating | 7.7% | 89.0% | 0.14 |
| 6142 | Exterior Wall Insulation: R-0 to R-13 | MF | NLI | Retrofit | 1,867.0 | 13.5% | 252.0 | 0.319 | 0.65 | 25 | \$1,509.60 | Addition of exterior wall insulation in poorly homes with non-electric heating | 91.0% | 74.5% | 0.21 |
| 6143 | Exterior Wall Insulation: R-0 to R-19 | MF | NLI | Retrofit | 1,867.0 | 15.2% | 284.0 | 0.375 | 0.65 | 25 | \$1,917.60 | Addition of exterior wall insulation in poorly homes with non-electric heating | 91.0% | 74.5% | 0.19 |
| 6144 | Air Sealing: 13 ACH50 to 9 ACH50 | MF | NLI | Retrofit | 1,636.0 | 1.1% | 18.0 | 0.035 | 0.65 | 15 | \$385.00 | Air sealing in poorly sealed homes with non-electric heating | 91.0% | 83.0% | 0.07 |
| 6145 | Air Sealing: 9 ACH50 to 7 ACH50 | MF | NLI | Retrofit | 1,618.0 | 0.6% | 9.0 | 0.014 | 0.65 | 15 | \$385.00 | Air sealing in adequately sealed homes with non-electric heating | 91.0% | 61.0% | 0.03 |
| 6146 | Duct Sealing: 38.5% to 25% (CFM @25Pa) | MF | NLI | Retrofit | 1,733.0 | 6.6% | 115.0 | 0.146 | 0.65 | 20 | \$744.00 | Duct sealing in homes with poorly sealed ducts and non-electric furnaces | 66.5% | 70.0% | 0.19 |
| 6147 | Duct Sealing: 25% to 16.25% (CFM @25Pa) | MF | NLI | Retrofit | 1,618.0 | 4.3% | 70.0 | 0.079 | 0.65 | 20 | \$744.00 | Duct sealing in homes with adequately sealed ducts and non-electric furnaces | 66.5% | 57.0% | 0.11 |
| 6148 | Duct Insulation (R-0 to R-8) | MF | NLI | Retrofit | 1,770.0 | 10.1% | 179.0 | 0.274 | 0.65 | 20 | \$453.60 | Installation of duct insulation in homes with poorly insulated ducts and non-electric furnaces | 66.5% | 37.0% | 0.54 |
| 6149 | Window Film (U=0.51, SHGC=0.24) | MF | NLI | Retrofit | 1,750.0 | 19.3% | 337.0 | 0.307 | 0.65 | 10 | \$924.00 | Installation of window film on single-pane windows in homes with non-electric heating | 91.0% | 89.0% | 0.27 |
| 6150 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | MF | NLI | Retrofit | 1,618.0 | 7.4% | 120.0 | 0.119 | 0.65 | 20 | \$1,752.96 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-electric heating | 91.0% | 89.0% | 0.08 |
| 6151 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | MF | ALL | ROB | 1,618.0 | 7.4% | 120.0 | 0.119 | 0.65 | 20 | \$70.93 | Installation of ENERGY STAR windows instead of double-pane windows in homes with non-electric heating | 91.0% | 42.0% | 1.89 |
| 6152 | Low Income Weatherization Package | MF | LI | Retrofit | 1,661.0 | 5.6% | 92.3 | 0.115 | 0.65 | 20 | \$1,417.36 | Installation of package of weatherization measures in homes with non-electric heating | 91.0% | 70.3% | 0.08 |
| 6153 | Window Film (U=0.51, SHGC=0.24) | MF | LI | Retrofit | 1,750.0 | 19.3% | 337.0 | 0.307 | 0.65 | 10 | \$924.00 | Installation of window film on single-pane windows in homes with non-electric heating | 91.0% | 89.0% | 0.27 |
| 6154 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | MF | LI | Retrofit | 1,618.0 | 7.4% | 120.0 | 0.119 | 0.65 | 20 | \$1,752.96 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-electric heating | 91.0% | 89.0% | 0.08 |
| 6155 | Residential New Construction Tier 1 (15% more efficient) | MF | ALL | NC | 1,176.0 | 6.7% | 79.0 | 0.118 | 0.65 | 20 | \$2,561.00 | New home built 15% more efficient than code - in homes with non-electric heating | 91.0% | 0.0% | 0.04 |
| 6156 | Residential New Construction Tier 2 (30% more efficient) | MF | ALL | NC | 1,176.0 | 20.7% | 244.0 | 0.223 | 0.65 | 20 | \$4,302.19 | New home built 30% more efficient than code - in homes with non-electric heating | 91.0% | 0.0% | 0.06 |
| 7000 | Miscellaneous | | | | | | | | | | | | | | |
| 7001 | Indirect Feedback (Home Energy Reports) - homes with ASHP | SFD | All | Retrofit | 17,151.0 | 1.5% | 257.3 | 0.0294 | 0.65 | 1 | \$0.00 | Home energy reports in homes with heat pumps | 1.3% | 0.0% | 5.00 |
| 7002 | Direct (Real Time) Feedback - homes with ASHP | SFD | All | Retrofit | 17,151.0 | 9.2% | 1,577.9 | 0.1801 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with heat pumps | 1.3% | 5.0% | 1.94 |
| 7003 | Indirect Feedback (Home Energy Reports) - homes with non-ASHP electric heating | SFD | All | Retrofit | 25,167.0 | 1.5% | 377.5 | 0.0431 | 0.65 | 1 | \$0.00 | Home energy reports in homes with non-heat pump electric heating | 7.7% | 0.0% | 5.00 |
| 7004 | Direct (Real Time) Feedback - homes with non-ASHP electric heating | SFD | All | Retrofit | 25,167.0 | 9.2% | 2,315.4 | 0.2643 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with non-heat pump electric heating | 7.7% | 5.0% | 2.85 |
| 7005 | Indirect Feedback (Home Energy Reports) - homes with gas heating | SFD | All | Retrofit | 8,344.0 | 1.5% | 125.2 | 0.0143 | 0.65 | 1 | \$0.00 | Home energy reports in homes with non-electric heating | 91.0% | 0.0% | 5.00 |
| 7006 | Direct (Real Time) Feedback - homes with gas heating | SFD | All | Retrofit | 8,344.0 | 9.2% | 767.6 | 0.0876 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with non-electric heating | 91.0% | 5.0% | 0.97 |
| 7007 | Variable Speed Pool Pumps (with Load Shifting Option) | SFD | All | Retrofit | 706.6 | 84.0% | 593.5 | 0.3908 | 1.00 | 10 | \$750.00 | Installation of a variable speed pool pump to replace a constant speed pool pump | 5.0% | 25.0% | 0.61 |
| 7008 | Indirect Feedback (Home Energy Reports) - homes with ASHP | SFD | All | NC | 16,761.0 | 1.5% | 251.4 | 0.0287 | 0.65 | 1 | \$0.00 | Home energy reports in homes with heat pumps | 9.0% | 0.0% | 5.00 |
| 7009 | Direct (Real Time) Feedback - homes with ASHP | SFD | All | NC | 16,761.0 | 9.2% | 1,542.0 | 0.1760 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with heat pumps | 9.0% | 0.0% | 1.90 |
| 7010 | Indirect Feedback (Home Energy Reports) - homes with gas heating | SFD | All | NC | 8,447.0 | 1.5% | 126.7 | 0.0145 | 0.65 | 1 | \$0.00 | Home energy reports in homes with non-electric heating | 91.0% | 0.0% | 5.00 |
| 7011 | Direct (Real Time) Feedback - homes with gas heating | SFD | All | NC | 8,447.0 | 9.2% | 777.1 | 0.0887 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with non-electric heating | 91.0% | 0.0% | 0.99 |
| 7012 | Variable Speed Pool Pumps (with Load Shifting Option) | SFD | All | NC | 706.6 | 84.0% | 593.5 | 0.3908 | 1.00 | 10 | \$750.00 | Installation of a variable speed pool pump to replace a constant speed pool pump | 5.0% | 0.0% | 0.61 |
| 7013 | Indirect Feedback (Home Energy Reports) - homes with ASHP | SFA | All | Retrofit | 14,267.0 | 1.5% | 214.0 | 0.0244 | 0.65 | 1 | \$0.00 | Home energy reports in homes with heat pumps | 1.3% | 0.0% | 5.00 |
| 7014 | Direct (Real Time) Feedback - homes with ASHP | SFA | All | Retrofit | 14,267.0 | 9.2% | 1,312.6 | 0.1498 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with heat pumps | 1.3% | 5.0% | 1.61 |
| 7015 | Indirect Feedback (Home Energy Reports) - homes with non-ASHP electric heating | SFA | All | Retrofit | 20,331.0 | 1.5% | 305.0 | 0.0348 | 0.65 | 1 | \$0.00 | Home energy reports in homes with non-heat pump electric heating | 7.7% | 0.0% | 5.00 |
| 7016 | Direct (Real Time) Feedback - homes with non-ASHP electric heating | SFA | All | Retrofit | 20,331.0 | 9.2% | 1,870.5 | 0.2135 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with non-heat pump electric heating | 7.7% | 5.0% | 2.30 |
| 7017 | Indirect Feedback (Home Energy Reports) - homes with gas heating | SFA | All | Retrofit | 7,222.0 | 1.5% | 108.3 | 0.0124 | 0.65 | 1 | \$0.00 | Home energy reports in homes with non-electric heating | 91.0% | 0.0% | 5.00 |
| 7018 | Direct (Real Time) Feedback - homes with gas heating | SFA | All | Retrofit | 7,222.0 | 9.2% | 664.4 | 0.0758 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with non-electric heating | 91.0% | 5.0% | 0.84 |
| 7019 | Indirect Feedback (Home Energy Reports) - homes with ASHP | SFA | All | NC | 14,106.0 | 1.5% | 211.6 | 0.0242 | 0.65 | 1 | \$0.00 | Home energy reports in homes with heat pumps | 9.0% | 0.0% | 5.00 |
| 7020 | Direct (Real Time) Feedback - homes with ASHP | SFA | All | NC | 14,106.0 | 9.2% | 1,297.8 | 0.1481 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with heat pumps | 9.0% | 0.0% | 1.60 |
| 7021 | Indirect Feedback (Home Energy Reports) - homes with gas heating | SFA | All | NC | 7,225.0 | 1.5% | 108.4 | 0.0124 | 0.65 | 1 | \$0.00 | Home energy reports in homes with non-electric heating | 91.0% | 0.0% | 5.00 |

Measure Assumptions - Duquesne

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|--|-----------------|---------------|-------------------|
| 7022 | Direct (Real Time) Feedback - homes with gas heating | SFA | All | NC | 7,225.0 | 9.2% | 664.7 | 0.0759 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with non-electric heating | 91.0% | 0.0% | 0.84 |
| 7023 | Indirect Feedback (Home Energy Reports) - homes with ASHP | MF | All | Retrofit | 10,161.0 | 1.5% | 152.4 | 0.0174 | 0.65 | 1 | \$0.00 | Home energy reports in homes with heat pumps | 1.3% | 0.0% | 5.00 |
| 7024 | Direct (Real Time) Feedback - homes with ASHP | MF | All | Retrofit | 10,161.0 | 9.2% | 934.8 | 0.1067 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with heat pumps | 1.3% | 5.0% | 1.15 |
| 7025 | Indirect Feedback (Home Energy Reports) - homes with non-ASHP electric heating | MF | All | Retrofit | 11,436.0 | 1.5% | 171.5 | 0.0196 | 0.65 | 1 | \$0.00 | Home energy reports in homes with non-heat pump electric heating | 7.7% | 0.0% | 5.00 |
| 7026 | Direct (Real Time) Feedback - homes with non-ASHP electric heating | MF | All | Retrofit | 11,436.0 | 9.2% | 1,052.1 | 0.1201 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with non-heat pump electric heating | 7.7% | 5.0% | 1.29 |
| 7027 | Indirect Feedback (Home Energy Reports) - homes with gas heating | MF | All | Retrofit | 6,457.0 | 1.5% | 96.9 | 0.0111 | 0.65 | 1 | \$0.00 | Home energy reports in homes with non-electric heating | 91.0% | 0.0% | 5.00 |
| 7028 | Direct (Real Time) Feedback - homes with gas heating | MF | All | Retrofit | 6,457.0 | 9.2% | 594.0 | 0.0678 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with non-electric heating | 91.0% | 5.0% | 0.75 |
| 7029 | Indirect Feedback (Home Energy Reports) - homes with ASHP | MF | All | NC | 9,833.0 | 1.5% | 147.5 | 0.0168 | 0.65 | 1 | \$0.00 | Home energy reports in homes with heat pumps | 9.0% | 0.0% | 5.00 |
| 7030 | Direct (Real Time) Feedback - homes with ASHP | MF | All | NC | 9,833.0 | 9.2% | 904.6 | 0.1033 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with heat pumps | 9.0% | 0.0% | 1.11 |
| 7031 | Indirect Feedback (Home Energy Reports) - homes with gas heating | MF | All | NC | 6,187.0 | 1.5% | 92.8 | 0.0106 | 0.65 | 1 | \$0.00 | Home energy reports in homes with non-electric heating | 91.0% | 0.0% | 5.00 |
| 7032 | Direct (Real Time) Feedback - homes with gas heating | MF | All | NC | 6,187.0 | 9.2% | 569.2 | 0.0650 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with non-electric heating | 91.0% | 0.0% | 0.72 |

Measure Assumptions - Met-Ed

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|---|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|---|-----------------|---------------|-------------------|
| 1000 | Lighting | | | | | | | | | | | | | | |
| 1001 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | NLI | ROB | 34.1 | 65.8% | 22.4 | 0.030 | 0.10 | 5 | \$0.61 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 2091.3% | 0.0% | 12.56 |
| 1002 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | NLI | ROB | 61.8 | 69.7% | 43.1 | 0.058 | 0.10 | 5 | \$1.64 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 398.3% | 0.0% | 7.92 |
| 1003 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | NLI | ROB | 34.1 | 78.5% | 26.7 | 0.036 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 2091.3% | 0.0% | 3.62 |
| 1004 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | NLI | ROB | 61.8 | 76.3% | 47.2 | 0.063 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 398.3% | 0.0% | 2.84 |
| 1005 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | NLI | ROB | 31.5 | 75.0% | 23.6 | 0.032 | 0.10 | 5 | \$2.71 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1292.1% | 0.0% | 2.93 |
| 1006 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | NLI | ROB | 59.1 | 68.3% | 40.4 | 0.054 | 0.10 | 5 | \$5.26 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 0.0% | 0.0% | 2.62 |
| 1007 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | NLI | ROB | 31.5 | 83.5% | 26.3 | 0.035 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1292.1% | 0.0% | 2.62 |
| 1008 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | NLI | ROB | 59.1 | 75.2% | 44.4 | 0.060 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 0.0% | 0.0% | 2.45 |
| 1009 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | SFD | NLI | ROB | 34.1 | 78.5% | 26.7 | 0.036 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | 1051.9% | 100.0% | 3.62 |
| 1010 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | SFD | NLI | ROB | 61.8 | 76.3% | 47.2 | 0.063 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | 200.4% | 100.0% | 2.84 |
| 1011 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | SFD | NLI | ROB | 31.5 | 83.5% | 26.3 | 0.035 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | 38.6% | 100.0% | 2.62 |
| 1012 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | SFD | NLI | ROB | 59.1 | 75.2% | 44.4 | 0.060 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | 0.0% | 100.0% | 2.45 |
| 1013 | CFL Reflector Replacing 65W/75W Reflector | SFD | NLI | ROB | 52.9 | 74.4% | 39.4 | 0.053 | 0.10 | 5 | \$2.15 | CFL Reflector Replacing 65W/75W Reflector | 588.1% | 0.0% | 7.42 |
| 1014 | LED Reflector Replacing 65W/75W Reflector | SFD | NLI | ROB | 52.9 | 83.8% | 44.4 | 0.060 | 0.10 | 15 | \$9.48 | LED Reflector Replacing 65W/75W Reflector | 588.1% | 0.0% | 5.07 |
| 1015 | LED Reflector Replacing CFL Reflector | SFD | NLI | ROB | 52.9 | 83.8% | 44.4 | 0.060 | 0.10 | 15 | \$9.48 | LED Reflector Replacing CFL Reflector | 100.0% | 100.0% | 5.07 |
| 1016 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | SFD | NLI | ROB | 48.2 | 69.6% | 33.5 | 0.037 | 0.10 | 5 | \$1.35 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | 708.1% | 0.0% | 8.80 |
| 1017 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | SFD | NLI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | 708.1% | 0.0% | 4.42 |
| 1018 | Exterior LED Bulb Replacing Exterior CFL Bulb | SFD | NLI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior CFL Bulb | 127.7% | 100.0% | 4.42 |
| 1019 | Residential Occupancy Sensors | SFD | ALL | Retrofit | 96.5 | 30.0% | 28.9 | 0.028 | 0.10 | 10 | \$63.50 | Residential Occupancy Sensors | 150.0% | 5.0% | 0.21 |
| 1020 | Electroluminescent Nightlight | SFD | NLI | ROB | 29.7 | 99.1% | 29.5 | 0.007 | 0.00 | 8 | \$1.92 | Replaces standard nightlighting with electroluminescent nightlight | 79.0% | 32.0% | 5.19 |
| 1021 | LED Nightlight | SFD | NLI | ROB | 29.7 | 85.7% | 25.5 | 0.006 | 0.00 | 8 | \$2.51 | Replaces standard nightlighting with LED nightlight | 79.0% | 32.0% | 3.43 |
| 1022 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | LI | ROB | 34.1 | 65.8% | 22.4 | 0.030 | 0.10 | 5 | \$0.61 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 2091.3% | 0.0% | 12.56 |
| 1023 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | LI | ROB | 61.8 | 69.7% | 43.1 | 0.058 | 0.10 | 5 | \$1.64 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 398.3% | 0.0% | 7.92 |
| 1024 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | LI | ROB | 34.1 | 78.5% | 26.7 | 0.036 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 2091.3% | 0.0% | 3.62 |
| 1025 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | LI | ROB | 61.8 | 76.3% | 47.2 | 0.063 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 398.3% | 0.0% | 2.84 |
| 1026 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | LI | ROB | 31.5 | 75.0% | 23.6 | 0.032 | 0.10 | 5 | \$2.71 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1292.1% | 0.0% | 2.93 |
| 1027 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | LI | ROB | 59.1 | 68.3% | 40.4 | 0.054 | 0.10 | 5 | \$5.26 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 0.0% | 0.0% | 2.62 |
| 1028 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | LI | ROB | 31.5 | 83.5% | 26.3 | 0.035 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1292.1% | 0.0% | 2.62 |
| 1029 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | LI | ROB | 59.1 | 75.2% | 44.4 | 0.060 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 0.0% | 0.0% | 2.45 |
| 1030 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | SFD | LI | ROB | 34.1 | 78.5% | 26.7 | 0.036 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | 1051.9% | 100.0% | 3.62 |
| 1031 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | SFD | LI | ROB | 61.8 | 76.3% | 47.2 | 0.063 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | 200.4% | 100.0% | 2.84 |
| 1032 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | SFD | LI | ROB | 31.5 | 83.5% | 26.3 | 0.035 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | 38.6% | 100.0% | 2.62 |
| 1033 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | SFD | LI | ROB | 59.1 | 75.2% | 44.4 | 0.060 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | 0.0% | 100.0% | 2.45 |
| 1034 | CFL Reflector Replacing 65W/75W Reflector | SFD | LI | ROB | 52.9 | 74.4% | 39.4 | 0.053 | 0.10 | 5 | \$2.15 | CFL Reflector Replacing 65W/75W Reflector | 588.1% | 0.0% | 7.42 |
| 1035 | LED Reflector Replacing 65W/75W Reflector | SFD | LI | ROB | 52.9 | 83.8% | 44.4 | 0.060 | 0.10 | 15 | \$9.48 | LED Reflector Replacing 65W/75W Reflector | 588.1% | 0.0% | 5.07 |
| 1036 | LED Reflector Replacing CFL Reflector | SFD | LI | ROB | 52.9 | 83.8% | 44.4 | 0.060 | 0.10 | 15 | \$9.48 | LED Reflector Replacing CFL Reflector | 100.0% | 100.0% | 5.07 |
| 1037 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | SFD | LI | ROB | 48.2 | 69.6% | 33.5 | 0.037 | 0.10 | 5 | \$1.35 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | 708.1% | 0.0% | 8.80 |
| 1038 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | SFD | LI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | 708.1% | 0.0% | 4.42 |
| 1039 | Exterior LED Bulb Replacing Exterior CFL Bulb | SFD | LI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior CFL Bulb | 127.7% | 100.0% | 4.42 |
| 1040 | LED Nightlight | SFD | LI | ROB | 29.7 | 85.7% | 25.5 | 0.006 | 0.00 | 8 | \$2.51 | Replaces standard nightlighting with LED nightlight | 79.0% | 32.0% | 3.43 |
| 1041 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | ALL | NC | 34.1 | 65.8% | 22.4 | 0.030 | 0.10 | 5 | \$0.61 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 3159.0% | 0.0% | 12.56 |

Measure Assumptions - Met-Ed

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|---|--------------------------|---------------|-------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|---|-----------------|---------------|-------------------|
| 1042 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | ALL | NC | 61.8 | 69.7% | 43.1 | 0.058 | 0.10 | 5 | \$1.64 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 601.7% | 0.0% | 7.92 |
| 1043 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | ALL | NC | 34.1 | 78.5% | 26.7 | 0.036 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 3159.0% | 0.0% | 3.62 |
| 1044 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | ALL | NC | 61.8 | 76.3% | 47.2 | 0.063 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 601.7% | 0.0% | 2.84 |
| 1045 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | ALL | NC | 31.5 | 75.0% | 23.6 | 0.032 | 0.10 | 5 | \$2.71 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1330.7% | 0.0% | 2.93 |
| 1046 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | ALL | NC | 59.1 | 68.3% | 40.4 | 0.054 | 0.10 | 5 | \$5.26 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 0.0% | 0.0% | 2.62 |
| 1047 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | ALL | NC | 31.5 | 83.5% | 26.3 | 0.035 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1330.7% | 0.0% | 2.62 |
| 1048 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | ALL | NC | 59.1 | 75.2% | 44.4 | 0.060 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 0.0% | 0.0% | 2.45 |
| 1049 | CFL Reflector Replacing 65W/75W Reflector | SFD | ALL | NC | 52.9 | 74.4% | 39.4 | 0.053 | 0.10 | 5 | \$2.15 | CFL Reflector Replacing 65W/75W Reflector | 694.3% | 0.0% | 7.42 |
| 1050 | LED Reflector Replacing 65W/75W Reflector | SFD | ALL | NC | 52.9 | 83.8% | 44.4 | 0.060 | 0.10 | 15 | \$9.48 | LED Reflector Replacing 65W/75W Reflector | 694.3% | 0.0% | 5.07 |
| 1051 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | SFD | ALL | NC | 48.2 | 69.6% | 33.5 | 0.037 | 0.10 | 5 | \$1.35 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | 840.0% | 0.0% | 8.80 |
| 1052 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | SFD | ALL | NC | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | 840.0% | 0.0% | 4.42 |
| 1053 | Residential Occupancy Sensors | SFD | ALL | NC | 96.5 | 30.0% | 28.9 | 0.028 | 0.10 | 10 | \$63.50 | Residential Occupancy Sensors | 150.0% | 0.0% | 0.21 |
| 1054 | Electroluminescent Nightlight | SFD | ALL | NC | 29.7 | 99.1% | 29.5 | 0.007 | 0.00 | 8 | \$1.92 | Replaces standard nightlighting with electroluminescent nightlight | 79.0% | 0.0% | 5.19 |
| 1055 | LED Nightlight | SFD | ALL | NC | 29.7 | 85.7% | 25.5 | 0.006 | 0.00 | 8 | \$2.51 | Replaces standard nightlighting with LED nightlight | 79.0% | 0.0% | 3.43 |
| 1056 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | NLI | ROB | 34.1 | 65.8% | 22.4 | 0.030 | 0.10 | 5 | \$0.61 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1405.1% | 0.0% | 12.56 |
| 1057 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | NLI | ROB | 61.8 | 69.7% | 43.1 | 0.058 | 0.10 | 5 | \$1.64 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 210.0% | 0.0% | 7.92 |
| 1058 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | NLI | ROB | 34.1 | 78.5% | 26.7 | 0.036 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1405.1% | 0.0% | 3.62 |
| 1059 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | NLI | ROB | 61.8 | 76.3% | 47.2 | 0.063 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 210.0% | 0.0% | 2.84 |
| 1060 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | NLI | ROB | 31.5 | 75.0% | 23.6 | 0.032 | 0.10 | 5 | \$2.71 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 692.1% | 0.0% | 2.93 |
| 1061 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | NLI | ROB | 59.1 | 68.3% | 40.4 | 0.054 | 0.10 | 5 | \$5.26 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 28.8% | 0.0% | 2.62 |
| 1062 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | NLI | ROB | 31.5 | 83.5% | 26.3 | 0.035 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 692.1% | 0.0% | 2.62 |
| 1063 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | NLI | ROB | 59.1 | 75.2% | 44.4 | 0.060 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 28.8% | 0.0% | 2.45 |
| 1064 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | SFA | NLI | ROB | 34.1 | 78.5% | 26.7 | 0.036 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | 706.8% | 100.0% | 3.62 |
| 1065 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | SFA | NLI | ROB | 61.8 | 76.3% | 47.2 | 0.063 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | 105.6% | 100.0% | 2.84 |
| 1066 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | SFA | NLI | ROB | 31.5 | 83.5% | 26.3 | 0.035 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | 20.7% | 100.0% | 2.62 |
| 1067 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | SFA | NLI | ROB | 59.1 | 75.2% | 44.4 | 0.060 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | 0.9% | 100.0% | 2.45 |
| 1068 | CFL Reflector Replacing 65W/75W Reflector | SFA | NLI | ROB | 52.9 | 74.4% | 39.4 | 0.053 | 0.10 | 5 | \$2.15 | CFL Reflector Replacing 65W/75W Reflector | 299.5% | 0.0% | 7.42 |
| 1069 | LED Reflector Replacing 65W/75W Reflector | SFA | NLI | ROB | 52.9 | 83.8% | 44.4 | 0.060 | 0.10 | 15 | \$9.48 | LED Reflector Replacing 65W/75W Reflector | 299.5% | 0.0% | 5.07 |
| 1070 | LED Reflector Replacing CFL Reflector | SFA | NLI | ROB | 52.9 | 83.8% | 44.4 | 0.060 | 0.10 | 15 | \$9.48 | LED Reflector Replacing CFL Reflector | 50.9% | 100.0% | 5.07 |
| 1071 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | SFA | NLI | ROB | 48.2 | 69.6% | 33.5 | 0.037 | 0.10 | 5 | \$1.35 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | 202.3% | 0.0% | 8.80 |
| 1072 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | SFA | NLI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | 202.3% | 0.0% | 4.42 |
| 1073 | Exterior LED Bulb Replacing Exterior CFL Bulb | SFA | NLI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior CFL Bulb | 36.5% | 100.0% | 4.42 |
| 1074 | Residential Occupancy Sensors | SFA | ALL | Retrofit | 96.5 | 30.0% | 28.9 | 0.028 | 0.10 | 10 | \$63.50 | Residential Occupancy Sensors | 150.0% | 5.0% | 0.21 |
| 1075 | Electroluminescent Nightlight | SFA | NLI | ROB | 29.7 | 99.1% | 29.5 | 0.007 | 0.00 | 8 | \$1.92 | Replaces standard nightlighting with electroluminescent nightlight | 42.0% | 32.0% | 5.19 |
| 1076 | LED Nightlight | SFA | NLI | ROB | 29.7 | 85.7% | 25.5 | 0.006 | 0.00 | 8 | \$2.51 | Replaces standard nightlighting with LED nightlight | 42.0% | 32.0% | 3.43 |
| 1077 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | LI | ROB | 34.1 | 65.8% | 22.4 | 0.030 | 0.10 | 5 | \$0.61 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1405.1% | 0.0% | 12.56 |
| 1078 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | LI | ROB | 61.8 | 69.7% | 43.1 | 0.058 | 0.10 | 5 | \$1.64 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 210.0% | 0.0% | 7.92 |
| 1079 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | LI | ROB | 34.1 | 78.5% | 26.7 | 0.036 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1405.1% | 0.0% | 3.62 |
| 1080 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | LI | ROB | 61.8 | 76.3% | 47.2 | 0.063 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 210.0% | 0.0% | 2.84 |
| 1081 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | LI | ROB | 31.5 | 75.0% | 23.6 | 0.032 | 0.10 | 5 | \$2.71 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 692.1% | 0.0% | 2.93 |

Measure Assumptions - Met-Ed

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|---|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|---|-----------------|---------------|-------------------|
| 1082 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | LI | ROB | 59.1 | 68.3% | 40.4 | 0.054 | 0.10 | 5 | \$5.26 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 28.8% | 0.0% | 2.62 |
| 1083 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | LI | ROB | 31.5 | 83.5% | 26.3 | 0.035 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 692.1% | 0.0% | 2.62 |
| 1084 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | LI | ROB | 59.1 | 75.2% | 44.4 | 0.060 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 28.8% | 0.0% | 2.45 |
| 1085 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | SFA | LI | ROB | 34.1 | 78.5% | 26.7 | 0.036 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | 706.8% | 100.0% | 3.62 |
| 1086 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | SFA | LI | ROB | 61.8 | 76.3% | 47.2 | 0.063 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | 105.6% | 100.0% | 2.84 |
| 1087 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | SFA | LI | ROB | 31.5 | 83.5% | 26.3 | 0.035 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | 20.7% | 100.0% | 2.62 |
| 1088 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | SFA | LI | ROB | 59.1 | 75.2% | 44.4 | 0.060 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | 0.9% | 100.0% | 2.45 |
| 1089 | CFL Reflector Replacing 65W/75W Reflector | SFA | LI | ROB | 52.9 | 74.4% | 39.4 | 0.053 | 0.10 | 5 | \$2.15 | CFL Reflector Replacing 65W/75W Reflector | 299.5% | 0.0% | 7.42 |
| 1090 | LED Reflector Replacing 65W/75W Reflector | SFA | LI | ROB | 52.9 | 83.8% | 44.4 | 0.060 | 0.10 | 15 | \$9.48 | LED Reflector Replacing 65W/75W Reflector | 299.5% | 0.0% | 5.07 |
| 1091 | LED Reflector Replacing CFL Reflector | SFA | LI | ROB | 52.9 | 83.8% | 44.4 | 0.060 | 0.10 | 15 | \$9.48 | LED Reflector Replacing CFL Reflector | 50.9% | 100.0% | 5.07 |
| 1092 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | SFA | LI | ROB | 48.2 | 69.6% | 33.5 | 0.037 | 0.10 | 5 | \$1.35 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | 202.3% | 0.0% | 8.80 |
| 1093 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | SFA | LI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | 202.3% | 0.0% | 4.42 |
| 1094 | Exterior LED Bulb Replacing Exterior CFL Bulb | SFA | LI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior CFL Bulb | 36.5% | 100.0% | 4.42 |
| 1095 | LED Nightlight | SFA | LI | ROB | 29.7 | 85.7% | 25.5 | 0.006 | 0.00 | 8 | \$2.51 | Replaces standard nightlighting with LED nightlight | 42.0% | 32.0% | 3.43 |
| 1096 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | ALL | NC | 34.1 | 65.8% | 22.4 | 0.030 | 0.10 | 5 | \$0.61 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 2122.5% | 0.0% | 12.56 |
| 1097 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | ALL | NC | 61.8 | 69.7% | 43.1 | 0.058 | 0.10 | 5 | \$1.64 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 317.2% | 0.0% | 7.92 |
| 1098 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | ALL | NC | 34.1 | 78.5% | 26.7 | 0.036 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 2122.5% | 0.0% | 3.62 |
| 1099 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | ALL | NC | 61.8 | 76.3% | 47.2 | 0.063 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 317.2% | 0.0% | 2.84 |
| 1100 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | ALL | NC | 31.5 | 75.0% | 23.6 | 0.032 | 0.10 | 5 | \$2.71 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 712.8% | 0.0% | 2.93 |
| 1101 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | ALL | NC | 59.1 | 68.3% | 40.4 | 0.054 | 0.10 | 5 | \$5.26 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 29.7% | 0.0% | 2.62 |
| 1102 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | ALL | NC | 31.5 | 83.5% | 26.3 | 0.035 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 712.8% | 0.0% | 2.62 |
| 1103 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | ALL | NC | 59.1 | 75.2% | 44.4 | 0.060 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 29.7% | 0.0% | 2.45 |
| 1104 | CFL Reflector Replacing 65W/75W Reflector | SFA | ALL | NC | 52.9 | 74.4% | 39.4 | 0.053 | 0.10 | 5 | \$2.15 | CFL Reflector Replacing 65W/75W Reflector | 353.6% | 0.0% | 7.42 |
| 1105 | LED Reflector Replacing 65W/75W Reflector | SFA | ALL | NC | 52.9 | 83.8% | 44.4 | 0.060 | 0.10 | 15 | \$9.48 | LED Reflector Replacing 65W/75W Reflector | 353.6% | 0.0% | 5.07 |
| 1106 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | SFA | ALL | NC | 48.2 | 69.6% | 33.5 | 0.037 | 0.10 | 5 | \$1.35 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | 240.0% | 0.0% | 8.80 |
| 1107 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | SFA | ALL | NC | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | 202.3% | 0.0% | 4.42 |
| 1108 | Residential Occupancy Sensors | SFA | ALL | NC | 96.5 | 30.0% | 28.9 | 0.028 | 0.10 | 10 | \$63.50 | Residential Occupancy Sensors | 150.0% | 0.0% | 0.21 |
| 1109 | Electroluminescent Nightlight | SFA | ALL | NC | 29.7 | 99.1% | 29.5 | 0.007 | 0.00 | 8 | \$1.92 | Replaces standard nightlighting with electroluminescent nightlight | 42.0% | 0.0% | 5.19 |
| 1110 | LED Nightlight | SFA | ALL | NC | 29.7 | 85.7% | 25.5 | 0.006 | 0.00 | 8 | \$2.51 | Replaces standard nightlighting with LED nightlight | 42.0% | 0.0% | 3.43 |
| 1111 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | NLI | ROB | 34.1 | 65.8% | 22.4 | 0.030 | 0.10 | 5 | \$0.61 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 878.4% | 0.0% | 12.56 |
| 1112 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | NLI | ROB | 61.8 | 69.7% | 43.1 | 0.058 | 0.10 | 5 | \$1.64 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 143.0% | 0.0% | 7.92 |
| 1113 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | NLI | ROB | 34.1 | 78.5% | 26.7 | 0.036 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 878.4% | 0.0% | 3.62 |
| 1114 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | NLI | ROB | 61.8 | 76.3% | 47.2 | 0.063 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 143.0% | 0.0% | 2.84 |
| 1115 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | NLI | ROB | 31.5 | 75.0% | 23.6 | 0.032 | 0.10 | 5 | \$2.71 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 296.6% | 0.0% | 2.93 |
| 1116 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | NLI | ROB | 59.1 | 68.3% | 40.4 | 0.054 | 0.10 | 5 | \$5.26 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 3.0% | 0.0% | 2.62 |
| 1117 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | NLI | ROB | 31.5 | 83.5% | 26.3 | 0.035 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 296.6% | 0.0% | 2.62 |
| 1118 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | NLI | ROB | 59.1 | 75.2% | 44.4 | 0.060 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 3.0% | 0.0% | 2.45 |
| 1119 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | MF | NLI | ROB | 34.1 | 78.5% | 26.7 | 0.036 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | 441.8% | 100.0% | 3.62 |
| 1120 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | MF | NLI | ROB | 61.8 | 76.3% | 47.2 | 0.063 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | 71.9% | 100.0% | 2.84 |
| 1121 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | MF | NLI | ROB | 31.5 | 83.5% | 26.3 | 0.035 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | 8.9% | 100.0% | 2.62 |

Measure Assumptions - Met-Ed

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|---|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|---|-----------------|---------------|-------------------|
| 1122 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | MF | NLI | ROB | 59.1 | 75.2% | 44.4 | 0.060 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | 0.1% | 100.0% | 2.45 |
| 1123 | CFL Reflector Replacing 65W/75W Reflector | MF | NLI | ROB | 52.9 | 74.4% | 39.4 | 0.053 | 0.10 | 5 | \$2.15 | CFL Reflector Replacing 65W/75W Reflector | 65.3% | 0.0% | 7.42 |
| 1124 | LED Reflector Replacing 65W/75W Reflector | MF | NLI | ROB | 52.9 | 83.8% | 44.4 | 0.060 | 0.10 | 15 | \$9.48 | LED Reflector Replacing 65W/75W Reflector | 65.3% | 0.0% | 5.07 |
| 1125 | LED Reflector Replacing CFL Reflector | MF | NLI | ROB | 52.9 | 83.8% | 44.4 | 0.060 | 0.10 | 15 | \$9.48 | LED Reflector Replacing CFL Reflector | 11.1% | 100.0% | 5.07 |
| 1126 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | MF | NLI | ROB | 48.2 | 69.6% | 33.5 | 0.037 | 0.10 | 5 | \$1.35 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | 101.2% | 0.0% | 8.80 |
| 1127 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | MF | NLI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | 101.2% | 0.0% | 4.42 |
| 1128 | Exterior LED Bulb Replacing Exterior CFL Bulb | MF | NLI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior CFL Bulb | 18.2% | 100.0% | 4.42 |
| 1129 | Residential Occupancy Sensors | MF | ALL | Retrofit | 96.5 | 30.0% | 28.9 | 0.028 | 0.10 | 10 | \$63.50 | Residential Occupancy Sensors | 100.0% | 5.0% | 0.21 |
| 1130 | Electroluminescent Nightlight | MF | NLI | ROB | 29.7 | 99.1% | 29.5 | 0.007 | 0.00 | 8 | \$1.92 | Replaces standard nightlighting with electroluminescent nightlight | 18.0% | 32.0% | 5.19 |
| 1131 | LED Nightlight | MF | NLI | ROB | 29.7 | 85.7% | 25.5 | 0.006 | 0.00 | 8 | \$2.51 | Replaces standard nightlighting with LED nightlight | 18.0% | 32.0% | 3.43 |
| 1132 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | LI | ROB | 34.1 | 65.8% | 22.4 | 0.030 | 0.10 | 5 | \$0.61 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 878.4% | 0.0% | 12.56 |
| 1133 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | LI | ROB | 61.8 | 69.7% | 43.1 | 0.058 | 0.10 | 5 | \$1.64 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 143.0% | 0.0% | 7.92 |
| 1134 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | LI | ROB | 34.1 | 78.5% | 26.7 | 0.036 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 878.4% | 0.0% | 3.62 |
| 1135 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | LI | ROB | 61.8 | 76.3% | 47.2 | 0.063 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 143.0% | 0.0% | 2.84 |
| 1136 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | LI | ROB | 31.5 | 75.0% | 23.6 | 0.032 | 0.10 | 5 | \$2.71 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 296.6% | 0.0% | 2.93 |
| 1137 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | LI | ROB | 59.1 | 68.3% | 40.4 | 0.054 | 0.10 | 5 | \$5.26 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 3.0% | 0.0% | 2.62 |
| 1138 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | LI | ROB | 31.5 | 83.5% | 26.3 | 0.035 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 296.6% | 0.0% | 2.62 |
| 1139 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | LI | ROB | 59.1 | 75.2% | 44.4 | 0.060 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 3.0% | 0.0% | 2.45 |
| 1140 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | MF | LI | ROB | 34.1 | 78.5% | 26.7 | 0.036 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | 441.8% | 100.0% | 3.62 |
| 1141 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | MF | LI | ROB | 61.8 | 76.3% | 47.2 | 0.063 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | 71.9% | 100.0% | 2.84 |
| 1142 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | MF | LI | ROB | 31.5 | 83.5% | 26.3 | 0.035 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | 8.9% | 100.0% | 2.62 |
| 1143 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | MF | LI | ROB | 59.1 | 75.2% | 44.4 | 0.060 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | 0.1% | 100.0% | 2.45 |
| 1144 | CFL Reflector Replacing 65W/75W Reflector | MF | LI | ROB | 52.9 | 74.4% | 39.4 | 0.053 | 0.10 | 5 | \$2.15 | CFL Reflector Replacing 65W/75W Reflector | 65.3% | 0.0% | 7.42 |
| 1145 | LED Reflector Replacing 65W/75W Reflector | MF | LI | ROB | 52.9 | 83.8% | 44.4 | 0.060 | 0.10 | 15 | \$9.48 | LED Reflector Replacing 65W/75W Reflector | 65.3% | 0.0% | 5.07 |
| 1146 | LED Reflector Replacing CFL Reflector | MF | LI | ROB | 52.9 | 83.8% | 44.4 | 0.060 | 0.10 | 15 | \$9.48 | LED Reflector Replacing CFL Reflector | 11.1% | 100.0% | 5.07 |
| 1147 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | MF | LI | ROB | 48.2 | 69.6% | 33.5 | 0.037 | 0.10 | 5 | \$1.35 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | 101.2% | 0.0% | 8.80 |
| 1148 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | MF | LI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | 101.2% | 0.0% | 4.42 |
| 1149 | Exterior LED Bulb Replacing Exterior CFL Bulb | MF | LI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior CFL Bulb | 18.2% | 100.0% | 4.42 |
| 1150 | LED Nightlight | MF | LI | ROB | 29.7 | 85.7% | 25.5 | 0.006 | 0.00 | 8 | \$2.51 | Replaces standard nightlighting with LED nightlight | 18.0% | 32.0% | 3.43 |
| 1151 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | ALL | NC | 34.1 | 65.8% | 22.4 | 0.030 | 0.10 | 5 | \$0.61 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1326.9% | 0.0% | 12.56 |
| 1152 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | ALL | NC | 61.8 | 69.7% | 43.1 | 0.058 | 0.10 | 5 | \$1.64 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 216.0% | 0.0% | 7.92 |
| 1153 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | ALL | NC | 34.1 | 78.5% | 26.7 | 0.036 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1326.9% | 0.0% | 3.62 |
| 1154 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | ALL | NC | 61.8 | 76.3% | 47.2 | 0.063 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 216.0% | 0.0% | 2.84 |
| 1155 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | ALL | NC | 31.5 | 75.0% | 23.6 | 0.032 | 0.10 | 5 | \$2.71 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 305.5% | 0.0% | 2.93 |
| 1156 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | ALL | NC | 59.1 | 68.3% | 40.4 | 0.054 | 0.10 | 5 | \$5.26 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 3.1% | 0.0% | 2.62 |
| 1157 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | ALL | NC | 31.5 | 83.5% | 26.3 | 0.035 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 305.5% | 0.0% | 2.62 |
| 1158 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | ALL | NC | 59.1 | 75.2% | 44.4 | 0.060 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 3.1% | 0.0% | 2.45 |
| 1159 | CFL Reflector Replacing 65W/75W Reflector | MF | ALL | NC | 52.9 | 74.4% | 39.4 | 0.053 | 0.10 | 5 | \$2.15 | CFL Reflector Replacing 65W/75W Reflector | 77.1% | 0.0% | 7.42 |
| 1160 | LED Reflector Replacing 65W/75W Reflector | MF | ALL | NC | 52.9 | 83.8% | 44.4 | 0.060 | 0.10 | 15 | \$9.48 | LED Reflector Replacing 65W/75W Reflector | 77.1% | 0.0% | 5.07 |
| 1161 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | MF | ALL | NC | 48.2 | 69.6% | 33.5 | 0.037 | 0.10 | 5 | \$1.35 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | 120.0% | 0.0% | 8.80 |
| 1162 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | MF | ALL | NC | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | 120.0% | 0.0% | 4.42 |
| 1163 | Residential Occupancy Sensors | MF | ALL | NC | 96.5 | 30.0% | 28.9 | 0.028 | 0.10 | 10 | \$63.50 | Residential Occupancy Sensors | 150.0% | 0.0% | 0.21 |

Measure Assumptions - Met-Ed

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|---|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|--|-----------------|---------------|-------------------|
| 1164 | Electroluminescent Nightlight | MF | ALL | NC | 29.7 | 99.1% | 29.5 | 0.007 | 0.00 | 8 | \$1.92 | Replaces standard nightlighting with electroluminescent nightlight | 18.0% | 0.0% | 5.19 |
| 1165 | LED Nightlight | MF | ALL | NC | 29.7 | 85.7% | 25.5 | 0.006 | 0.00 | 8 | \$2.51 | Replaces standard nightlighting with LED nightlight | 18.0% | 0.0% | 3.43 |
| 2000 | HVAC Equipment | | | | | | | | | | | | | | |
| 2001 | Central AC Maintenance (10.4 SEER to 11 SEER) | SFD | NLI | Retrofit | 2,046.0 | 1.8% | 36.0 | 0.129 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of central AC units in homes with central air conditioning | 52.0% | 54.0% | 0.46 |
| 2002 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) | SFD | NLI | ROB | 1,638.0 | 10.0% | 164.0 | 0.222 | 0.65 | 14 | \$1,407.82 | Installation of 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 52.0% | 22.0% | 0.14 |
| 2003 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) | SFD | NLI | ROB | 1,638.0 | 14.2% | 232.0 | 0.309 | 0.65 | 14 | \$2,588.05 | Installation of 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 52.0% | 22.0% | 0.10 |
| 2004 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) - with proper sizing | SFD | NLI | ROB | 1,638.0 | 10.7% | 176.0 | 0.244 | 0.65 | 14 | \$1,319.00 | Installation of properly sized 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 52.0% | 22.0% | 0.16 |
| 2005 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) - with proper sizing | SFD | NLI | ROB | 1,638.0 | 14.9% | 244.0 | 0.332 | 0.65 | 14 | \$2,499.23 | Installation of properly sized 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 52.0% | 22.0% | 0.11 |
| 2006 | Air Source Heat Pump Maintenance (12.3 SEER to 13 SEER / 7.3 hspf to 7.7 hspf) | SFD | NLI | Retrofit | 6,665.0 | 6.7% | 445.0 | 0.160 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of air-source heat pump in homes with air-source heat pumps | 6.5% | 69.0% | 1.74 |
| 2007 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 15 SEER / 8.5 hspf) | SFD | NLI | ROB | 5,771.0 | 3.6% | 205.0 | 0.054 | 0.65 | 12 | \$1,116.43 | Installation of 15 SEER / 8.5 hspf instead of standard air-source heat pump in homes with heat pumps | 6.5% | 22.0% | 0.10 |
| 2008 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 16 SEER / 9.0 hspf) | SFD | NLI | ROB | 5,771.0 | 9.1% | 524.1 | 0.090 | 0.65 | 12 | \$1,381.27 | Installation of 16 SEER / 9.0 hspf instead of standard air-source heat pump in homes with heat pumps | 6.5% | 22.0% | 0.20 |
| 2009 | ENERGY STAR Ground Source Heat Pump (14 SEER / 8.0 hspf to 17.1 EER / 3.6 COP) | SFD | NLI | ROB | 5,771.0 | 16.1% | 929.0 | 0.309 | 0.65 | 30 | \$12,709.14 | Installation of 17.1 EER / 3.6 COP ground source heat pump instead of standard air-source heat pump in homes with heat pumps | 6.5% | 22.0% | 0.05 |
| 2010 | ENERGY STAR Ground Source Heat Pump (14 SEER / 8.0 hspf to 17.1 EER / 3.6 COP) - with desuperheater | SFD | NLI | ROB | 5,771.0 | 25.9% | 1,496.0 | 0.309 | 0.65 | 30 | \$12,071.37 | Installation of 17.1 EER / 3.6 COP ground source heat pump (with a desuperheater) instead of standard air-source heat pump in homes with heat pumps | 6.5% | 22.0% | 0.08 |
| 2011 | ENERGY STAR Air Source Heat Pump (Elec Furnace / CAC to 16 SEER / 9.0 hspf) | SFD | NLI | ROB | 13,282.0 | 60.5% | 8,035.1 | 0.212 | 0.65 | 12 | \$3,158.48 | Installation of 16 SEER / 9.0 hspf instead of electric furnace in homes with electric furnaces | 0.7% | 0.0% | 1.19 |
| 2012 | ENERGY STAR Ground Source Heat Pump (Electric Furnace / CAC to 17.1 EER / 3.6 COP) - with desuperheater | SFD | NLI | ROB | 13,282.0 | 60.5% | 8,035.1 | 0.212 | 0.65 | 30 | \$17,454.97 | Installation of 17.1 EER / 3.6 COP ground source heat pump (with a desuperheater) instead of electric furnace in homes with electric furnaces | 0.7% | 0.0% | 0.26 |
| 2013 | High Efficiency Furnace Fan (on existing furnace) - electric heating and central AC | SFD | ALL | Retrofit | 13,282.0 | 3.4% | 446.0 | 0.176 | 0.65 | 18 | \$360.00 | Installation of high efficiency furnace fan on existing furnace in homes with electric furnaces | 9.0% | 34.0% | 0.92 |
| 2014 | High Efficiency Furnace Fan (on existing furnace) - non-electric heating and central AC | SFD | ALL | Retrofit | 2,010.0 | 22.2% | 446.0 | 0.176 | 0.65 | 18 | \$360.00 | Installation of high efficiency furnace fan on existing furnace in homes with non-electric furnaces | 52.0% | 34.0% | 0.92 |
| 2015 | Furnace Whistle - electric heating and central AC | SFD | NLI | Retrofit | 6,958.3 | 0.9% | 59.7 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on electric furnaces in homes with electric forced air heating | 9.0% | 10.0% | 56.24 |
| 2016 | Furnace Whistle - non-electric heating and central AC | SFD | NLI | Retrofit | 2,010.0 | 0.9% | 17.3 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on non-electric furnaces in homes with non-electric forced air heating | 52.0% | 10.0% | 34.59 |
| 2017 | Ductless Mini-Split Heat Pump (16 SEER / 9.0 hspf) - replacing baseboard/room AC | SFD | ALL | ROB | 12,867.0 | 63.0% | 8,104.0 | 1.411 | 0.30 | 15 | \$3,570.80 | Installation of a 16 SEER / 9.0 hspf ductless minisplit heat pump to replace baseboard heating in homes with baseboard heating and room air conditioning | 29.7% | 0.0% | 1.35 |
| 2018 | Ductless Mini-Split Air Conditioner (16 SEER) replacing room AC | SFD | ALL | ROB | 1,852.0 | 34.6% | 640.0 | 1.405 | 0.30 | 15 | \$3,570.80 | Installation of a 16 SEER / 9.0 hspf ductless minisplit air conditioner instead of standard room air conditioner in homes with room air conditioning and any form of electric heating other than baseboard heating | 29.7% | 32.0% | 0.19 |
| 2019 | High Efficiency Room Air Conditioner (11 CEER to 12 CEER) | SFD | NLI | ROB | 1,852.0 | 0.5% | 9.2 | 0.061 | 0.30 | 9 | \$40.00 | Installation of a high efficiency room air conditioner instead of standard room air conditioner in homes with room air conditioning and any form of electric heating other than baseboard heating | 93.8% | 32.0% | 0.32 |
| 2020 | Room AC Retirement | SFD | ALL | Retrofit | 1,880.8 | 8.8% | 166.0 | 0.640 | 0.30 | 4 | \$60.00 | Retirement of supplemental room air conditioners (not primary or secondary) in homes with room air conditioners | 47.0% | 0.0% | 1.35 |
| 2021 | Programmable Thermostat (electric heating and air conditioning) | SFD | NLI | Retrofit | 10,905.3 | 3.4% | 365.9 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with electric heating and air conditioning | 20.4% | 52.0% | 2.43 |
| 2022 | Smart Thermostat (electric heating and air conditioning) | SFD | NLI | Retrofit | 10,905.3 | 10.7% | 1,169.8 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with electric heating and air conditioning | 20.4% | 52.0% | 1.99 |
| 2023 | Programmable Thermostat (non-electric heating and air conditioning) | SFD | NLI | Retrofit | 2,010.0 | 2.0% | 40.2 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with non-electric heating and air conditioning | 72.6% | 52.0% | 0.28 |
| 2024 | Smart Thermostat (non-electric heating and air conditioning) | SFD | NLI | Retrofit | 2,010.0 | 13.9% | 279.5 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with non-electric heating and air conditioning | 72.6% | 52.0% | 0.51 |
| 2025 | Residential Whole House Fan | SFD | ALL | Retrofit | 2,010.0 | 10.1% | 204.0 | 0.000 | 0.65 | 15 | \$533.86 | Installation of residential whole house fan in homes with air conditioning | 93.0% | 9.1% | 0.23 |
| 2026 | Central AC Maintenance (10.4 SEER to 11 SEER) | SFD | LI | Retrofit | 2,046.0 | 1.8% | 36.0 | 0.129 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of central AC units in homes with central air conditioning | 52.0% | 54.0% | 0.46 |

Measure Assumptions - Met-Ed

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|---|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|---|-----------------|---------------|-------------------|
| 2027 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) | SFD | LI | ROB | 1,638.0 | 10.0% | 164.0 | 0.222 | 0.65 | 14 | \$1,407.82 | Installation of 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 52.0% | 22.0% | 0.14 |
| 2028 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) | SFD | LI | ROB | 1,638.0 | 14.2% | 232.0 | 0.309 | 0.65 | 14 | \$2,588.05 | Installation of 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 52.0% | 22.0% | 0.10 |
| 2029 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) - with proper sizing | SFD | LI | ROB | 1,638.0 | 10.7% | 176.0 | 0.244 | 0.65 | 14 | \$1,319.00 | Installation of properly sized 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 52.0% | 22.0% | 0.16 |
| 2030 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) - with proper sizing | SFD | LI | ROB | 1,638.0 | 14.9% | 244.0 | 0.332 | 0.65 | 14 | \$2,499.23 | Installation of properly sized 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 52.0% | 22.0% | 0.11 |
| 2031 | Air Source Heat Pump Maintenance (12.3 SEER to 13 SEER / 7.3 hspf to 7.7 hspf) | SFD | LI | Retrofit | 6,665.0 | 6.7% | 445.0 | 0.160 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of air-source heat pump in homes with air-source heat pumps | 6.5% | 69.0% | 1.74 |
| 2032 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 15 SEER / 8.5 hspf) | SFD | LI | ROB | 5,771.0 | 3.6% | 205.0 | 0.054 | 0.65 | 12 | \$1,116.43 | Installation of 15 SEER / 8.5 hspf instead of standard air-source heat pump in homes with heat pumps | 6.5% | 22.0% | 0.10 |
| 2033 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 16 SEER / 9.0 hspf) | SFD | LI | ROB | 5,771.0 | 9.1% | 524.1 | 0.090 | 0.65 | 12 | \$1,381.27 | Installation of 16 SEER / 9.0 hspf instead of standard air-source heat pump in homes with heat pumps | 6.5% | 22.0% | 0.20 |
| 2034 | ENERGY STAR Air Source Heat Pump (Elec Furnace / CAC to 16 SEER / 9.0 hspf) | SFD | LI | ROB | 13,282.0 | 60.5% | 8,035.1 | 0.212 | 0.65 | 12 | \$3,158.48 | Installation of 16 SEER / 9.0 hspf instead of electric furnace in homes with electric furnaces | 0.7% | 0.0% | 1.19 |
| 2035 | Furnace Whistle - electric heating and central AC | SFD | LI | Retrofit | 6,958.3 | 0.9% | 59.7 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on electric furnaces in homes with electric forced air heating | 9.0% | 10.0% | 55.82 |
| 2036 | Furnace Whistle - non-electric heating and central AC | SFD | LI | Retrofit | 2,010.0 | 0.9% | 17.3 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on non-electric furnaces in homes with non-electric forced air heating | 52.0% | 10.0% | 33.90 |
| 2037 | High Efficiency Room Air Conditioner (11 CEER to 12 CEER) | SFD | LI | ROB | 1,852.0 | 0.5% | 9.2 | 0.061 | 0.30 | 9 | \$40.00 | Installation of a high efficiency room air conditioner instead of standard room air conditioner in homes with room air conditioning and any form of electric heating other than baseboard heating | 93.8% | 32.0% | 0.32 |
| 2038 | Programmable Thermostat (electric heating and air conditioning) | SFD | LI | Retrofit | 10,905.3 | 3.4% | 365.9 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with electric heating and air conditioning | 20.4% | 52.0% | 2.43 |
| 2039 | Smart Thermostat (electric heating and air conditioning) | SFD | LI | Retrofit | 10,905.3 | 10.7% | 1,169.8 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with electric heating and air conditioning | 20.4% | 52.0% | 1.99 |
| 2040 | Programmable Thermostat (non-electric heating and air conditioning) | SFD | LI | Retrofit | 2,010.0 | 2.0% | 40.2 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with non-electric heating and air conditioning | 72.6% | 52.0% | 0.28 |
| 2041 | Smart Thermostat (non-electric heating and air conditioning) | SFD | LI | Retrofit | 2,010.0 | 13.9% | 279.5 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with non-electric heating and air conditioning | 72.6% | 52.0% | 0.51 |
| 2042 | Central AC Maintenance (10.4 SEER to 11 SEER) | SFA | NLI | Retrofit | 1,904.0 | 1.9% | 37.0 | 0.109 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of central AC units in homes with central air conditioning | 52.0% | 54.0% | 0.41 |
| 2043 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) | SFA | NLI | ROB | 1,503.0 | 10.5% | 158.0 | 0.182 | 0.65 | 14 | \$1,319.00 | Installation of 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 52.0% | 22.0% | 0.13 |
| 2044 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) | SFA | NLI | ROB | 1,503.0 | 14.9% | 224.0 | 0.250 | 0.65 | 14 | \$2,499.23 | Installation of 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 52.0% | 22.0% | 0.10 |
| 2045 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) - with proper sizing | SFA | NLI | ROB | 1,503.0 | 11.4% | 172.0 | 0.203 | 0.65 | 14 | \$1,230.23 | Installation of properly sized 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 52.0% | 22.0% | 0.15 |
| 2046 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) - with proper sizing | SFA | NLI | ROB | 1,503.0 | 15.8% | 237.0 | 0.272 | 0.65 | 14 | \$2,410.41 | Installation of properly sized 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 52.0% | 22.0% | 0.11 |
| 2047 | Air Source Heat Pump Maintenance (12.3 SEER to 13 SEER / 7.3 hspf to 7.7 hspf) | SFA | NLI | Retrofit | 5,384.0 | 7.5% | 403.0 | 0.154 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of air-source heat pump in homes with air-source heat pumps | 6.5% | 69.0% | 1.60 |
| 2048 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 15 SEER / 8.5 hspf) | SFA | NLI | ROB | 4,615.0 | 3.6% | 167.0 | 0.045 | 0.65 | 12 | \$1,004.75 | Installation of 15 SEER / 8.5 hspf instead of standard air-source heat pump in homes with heat pumps | 6.5% | 22.0% | 0.09 |
| 2049 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 16 SEER / 9.0 hspf) | SFA | NLI | ROB | 4,615.0 | 9.2% | 424.0 | 0.076 | 0.65 | 12 | \$1,269.59 | Installation of 16 SEER / 9.0 hspf instead of standard air-source heat pump in homes with heat pumps | 6.5% | 22.0% | 0.18 |
| 2050 | ENERGY STAR Air Source Heat Pump (Elec Furnace / CAC to 16 SEER / 9.0 hspf) | SFA | NLI | ROB | 10,196.0 | 58.9% | 6,005.0 | 0.172 | 0.65 | 12 | \$2,829.74 | Installation of 16 SEER / 9.0 hspf instead of electric furnace in homes with electric furnaces | 0.7% | 0.0% | 0.99 |
| 2051 | High Efficiency Furnace Fan (on existing furnace) - electric heating and central AC | SFA | ALL | Retrofit | 10,196.0 | 4.4% | 446.0 | 0.176 | 0.65 | 18 | \$360.00 | Installation of high efficiency furnace fan on existing furnace in homes with electric furnaces | 9.0% | 34.0% | 0.92 |
| 2052 | High Efficiency Furnace Fan (on existing furnace) - non-electric heating and central AC | SFA | ALL | Retrofit | 1,867.0 | 23.9% | 446.0 | 0.176 | 0.65 | 18 | \$360.00 | Installation of high efficiency furnace fan on existing furnace in homes with non-electric furnaces | 52.0% | 34.0% | 0.92 |
| 2053 | Furnace Whistle - electric heating and central AC | SFA | NLI | Retrofit | 5,536.0 | 1.1% | 59.7 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on electric furnaces in homes with electric forced air heating | 9.0% | 10.0% | 56.24 |
| 2054 | Furnace Whistle - non-electric heating and central AC | SFA | NLI | Retrofit | 1,867.0 | 0.9% | 17.3 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on non-electric furnaces in homes with non-electric forced air heating | 52.0% | 10.0% | 34.59 |
| 2055 | Ductless Mini-Split Heat Pump (16 SEER / 9.0 hspf) - replacing baseboard/room AC | SFA | ALL | ROB | 9,748.0 | 62.0% | 6,045.0 | 1.327 | 0.30 | 15 | \$2,856.64 | Installation of a 16 SEER / 9.0 hspf ductless minisplit heat pump to replace baseboard heating in homes with baseboard heating and room air conditioning | 49.5% | 0.0% | 1.28 |

Measure Assumptions - Met-Ed

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|--|-----------------|---------------|-------------------|
| 2056 | Ductless Mini-Split Air Conditioner (16 SEER) replacing room AC | SFA | ALL | ROB | 1,970.0 | 45.2% | 890.0 | 1.697 | 0.30 | 15 | \$2,856.64 | Installation of a 16 SEER / 9.0 hspf ductless minisplit air conditioner instead of standard room air conditioner in homes with room air conditioning and any form of electric heating other than baseboard heating | 49.5% | 32.0% | 0.32 |
| 2057 | High Efficiency Room Air Conditioner (11 CEER to 12 CEER) | SFA | NLI | ROB | 1,970.0 | 0.5% | 9.2 | 0.061 | 0.30 | 9 | \$40.00 | Installation of a high efficiency room air conditioner instead of standard room air conditioner in homes with room air conditioning and any form of electric heating other than baseboard heating | 120.4% | 32.0% | 0.32 |
| 2058 | Room AC Retirement | SFA | ALL | Retrofit | 2,002.9 | 8.3% | 166.0 | 0.640 | 0.30 | 4 | \$60.00 | Retirement of supplemental room air conditioners (not primary or secondary) in homes with room air conditioners | 47.0% | 0.0% | 1.35 |
| 2059 | Programmable Thermostat (electric heating and air conditioning) | SFA | NLI | Retrofit | 8,349.6 | 3.3% | 274.7 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with electric heating and air conditioning | 20.4% | 52.0% | 1.82 |
| 2060 | Smart Thermostat (electric heating and air conditioning) | SFA | NLI | Retrofit | 8,349.6 | 11.0% | 914.5 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with electric heating and air conditioning | 20.4% | 52.0% | 1.56 |
| 2061 | Programmable Thermostat (non-electric heating and air conditioning) | SFA | NLI | Retrofit | 1,867.0 | 2.0% | 37.3 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with non-electric heating and air conditioning | 72.6% | 52.0% | 0.26 |
| 2062 | Smart Thermostat (non-electric heating and air conditioning) | SFA | NLI | Retrofit | 1,867.0 | 14.1% | 262.6 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with non-electric heating and air conditioning | 72.6% | 52.0% | 0.47 |
| 2063 | Residential Whole House Fan | SFA | ALL | Retrofit | 1,867.0 | 8.4% | 156.1 | 0.000 | 0.65 | 15 | \$533.86 | Installation of residential whole house fan in homes with air conditioning | 93.0% | 9.1% | 0.17 |
| 2064 | Central AC Maintenance (10.4 SEER to 11 SEER) | SFA | LI | Retrofit | 1,904.0 | 1.9% | 37.0 | 0.109 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of central AC units in homes with central air conditioning | 52.0% | 54.0% | 0.41 |
| 2065 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) | SFA | LI | ROB | 1,503.0 | 10.5% | 158.0 | 0.182 | 0.65 | 14 | \$1,319.00 | Installation of 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 52.0% | 22.0% | 0.13 |
| 2066 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) | SFA | LI | ROB | 1,503.0 | 14.9% | 224.0 | 0.250 | 0.65 | 14 | \$2,499.23 | Installation of 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 52.0% | 22.0% | 0.10 |
| 2067 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) - with proper sizing | SFA | LI | ROB | 1,503.0 | 11.4% | 172.0 | 0.203 | 0.65 | 14 | \$1,230.23 | Installation of properly sized 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 52.0% | 22.0% | 0.15 |
| 2068 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) - with proper sizing | SFA | LI | ROB | 1,503.0 | 15.8% | 237.0 | 0.272 | 0.65 | 14 | \$2,410.41 | Installation of properly sized 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 52.0% | 22.0% | 0.11 |
| 2069 | Air Source Heat Pump Maintenance (12.3 SEER to 13 SEER / 7.3 hspf to 7.7 hspf) | SFA | LI | ROB | 5,384.0 | 7.5% | 403.0 | 0.154 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of air-source heat pump in homes with air-source heat pumps | 6.5% | 69.0% | 1.60 |
| 2070 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 15 SEER / 8.5 hspf) | SFA | LI | ROB | 4,615.0 | 3.6% | 167.0 | 0.076 | 0.65 | 12 | \$1,004.75 | Installation of 15 SEER / 8.5 hspf instead of standard air-source heat pump in homes with heat pumps | 6.5% | 22.0% | 0.11 |
| 2071 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 16 SEER / 9.0 hspf) | SFA | LI | ROB | 4,615.0 | 9.2% | 424.0 | 0.076 | 0.65 | 12 | \$1,269.59 | Installation of 16 SEER / 9.0 hspf instead of standard air-source heat pump in homes with heat pumps | 6.5% | 22.0% | 0.18 |
| 2072 | ENERGY STAR Air Source Heat Pump (Elec Furnace / CAC to 16 SEER / 9.0 hspf) | SFA | LI | ROB | 10,196.0 | 58.9% | 6,005.0 | 0.172 | 0.65 | 12 | \$2,829.74 | Installation of 16 SEER / 9.0 hspf instead of electric furnace in homes with electric furnaces | 0.7% | 0.0% | 0.99 |
| 2073 | Furnace Whistle - electric heating and central AC | SFA | LI | Retrofit | 5,536.0 | 1.1% | 59.7 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on electric furnaces in homes with electric forced air heating | 9.0% | 10.0% | 56.24 |
| 2074 | Furnace Whistle - non-electric heating and central AC | SFA | LI | Retrofit | 1,867.0 | 0.9% | 17.3 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on non-electric furnaces in homes with non-electric forced air heating | 52.0% | 10.0% | 34.59 |
| 2075 | High Efficiency Room Air Conditioner (11 CEER to 12 CEER) | SFA | LI | ROB | 1,970.0 | 0.5% | 9.2 | 0.061 | 0.30 | 9 | \$40.00 | Installation of a high efficiency room air conditioner instead of standard room air conditioner in homes with room air conditioning and any form of electric heating other than baseboard heating | 120.4% | 32.0% | 0.32 |
| 2076 | Programmable Thermostat (electric heating and air conditioning) | SFA | LI | Retrofit | 8,349.6 | 3.3% | 274.7 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with electric heating and air conditioning | 20.4% | 52.0% | 1.82 |
| 2077 | Smart Thermostat (electric heating and air conditioning) | SFA | LI | Retrofit | 8,349.6 | 11.0% | 914.5 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with electric heating and air conditioning | 20.4% | 52.0% | 1.56 |
| 2078 | Programmable Thermostat (non-electric heating and air conditioning) | SFA | LI | Retrofit | 1,867.0 | 2.0% | 37.3 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with non-electric heating and air conditioning | 72.6% | 52.0% | 0.26 |
| 2079 | Smart Thermostat (non-electric heating and air conditioning) | SFA | LI | Retrofit | 1,867.0 | 14.1% | 262.6 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with non-electric heating and air conditioning | 72.6% | 52.0% | 0.47 |
| 2080 | Central AC Maintenance (10.4 SEER to 11 SEER) | MF | NLI | Retrofit | 1,957.0 | 3.2% | 63.0 | 0.092 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of central AC units in homes with central air conditioning | 52.0% | 54.0% | 0.45 |
| 2081 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) | MF | NLI | ROB | 1,466.0 | 12.3% | 180.0 | 0.122 | 0.65 | 14 | \$1,141.46 | Installation of 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 52.0% | 22.0% | 0.14 |
| 2082 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) | MF | NLI | ROB | 1,466.0 | 17.5% | 256.0 | 0.174 | 0.65 | 14 | \$2,321.59 | Installation of 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 52.0% | 22.0% | 0.10 |
| 2083 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) - with proper sizing | MF | NLI | ROB | 1,466.0 | 12.0% | 176.0 | 0.114 | 0.65 | 14 | \$856.10 | Installation of properly sized 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 52.0% | 22.0% | 0.18 |

Measure Assumptions - Met-Ed

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|---|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|--|-----------------|---------------|-------------------|
| 2084 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) - with proper sizing | MF | NLI | ROB | 1,466.0 | 20.7% | 304.0 | 0.179 | 0.65 | 14 | \$1,741.19 | Installation of properly sized 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 52.0% | 22.0% | 0.14 |
| 2085 | Air Source Heat Pump Maintenance (12.3 SEER to 13 SEER / 7.3 hspf to 7.7 hspf) | MF | NLI | Retrofit | 2,573.0 | 10.8% | 278.0 | 0.105 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of air-source heat pump in homes with air-source heat pumps | 6.5% | 69.0% | 1.10 |
| 2086 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 15 SEER / 8.5 hspf) | MF | NLI | ROB | 2,150.0 | 3.4% | 73.0 | 0.032 | 0.65 | 12 | \$781.39 | Installation of 15 SEER / 8.5 hspf instead of standard air-source heat pump in homes with heat pumps | 6.5% | 22.0% | 0.06 |
| 2087 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 16 SEER / 9.0 hspf) | MF | NLI | ROB | 2,150.0 | 7.4% | 160.0 | 0.048 | 0.65 | 12 | \$1,046.23 | Installation of 16 SEER / 9.0 hspf instead of standard air-source heat pump in homes with heat pumps | 6.5% | 22.0% | 0.09 |
| 2088 | ENERGY STAR Air Source Heat Pump (Elec Furnace / CAC to 16 SEER / 9.0 hspf) | MF | NLI | ROB | 3,316.0 | 40.0% | 1,326.0 | 0.378 | 0.65 | 12 | \$2,172.26 | Installation of 16 SEER / 9.0 hspf instead of electric furnace in homes with electric furnaces | 0.7% | 0.0% | 0.35 |
| 2089 | High Efficiency Furnace Fan (on existing furnace) - electric heating and central AC | MF | ALL | Retrofit | 3,316.0 | 13.4% | 446.0 | 0.176 | 0.65 | 18 | \$360.00 | Installation of high efficiency furnace fan on existing furnace in homes with electric furnaces | 9.0% | 34.0% | 0.92 |
| 2090 | High Efficiency Furnace Fan (on existing furnace) - non-electric heating and central AC | MF | ALL | Retrofit | 1,894.0 | 23.5% | 446.0 | 0.176 | 0.65 | 18 | \$360.00 | Installation of high efficiency furnace fan on existing furnace in homes with non-electric furnaces | 52.0% | 34.0% | 0.92 |
| 2091 | Furnace Whistle - electric heating and central AC | MF | NLI | Retrofit | 2,423.8 | 2.5% | 59.7 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on electric furnaces in homes with electric forced air heating | 9.0% | 10.0% | 56.24 |
| 2092 | Furnace Whistle - non-electric heating and central AC | MF | NLI | Retrofit | 1,894.0 | 0.9% | 17.3 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on non-electric furnaces in homes with non-electric forced air heating | 52.0% | 10.0% | 34.59 |
| 2093 | Ductless Mini-Split Heat Pump (16 SEER / 9.0 hspf) - replacing baseboard/room AC | MF | ALL | ROB | 3,076.0 | 58.0% | 1,785.0 | 0.994 | 0.30 | 15 | \$1,428.32 | Installation of a 16 SEER / 9.0 hspf ductless minisplit heat pump to replace baseboard heating in homes with baseboard heating and room air conditioning | 56.1% | 0.0% | 0.85 |
| 2094 | Ductless Mini-Split Air Conditioner (16 SEER) replacing room AC | MF | ALL | ROB | 1,632.0 | 47.8% | 780.0 | 1.019 | 0.30 | 15 | \$1,428.32 | Installation of a 16 SEER / 9.0 hspf ductless minisplit air conditioner instead of standard room air conditioner in homes with room air conditioning and any form of electric heating other than baseboard heating | 56.1% | 32.0% | 0.48 |
| 2095 | High Efficiency Room Air Conditioner (11 CEER to 12 CEER) | MF | NLI | ROB | 1,632.0 | 0.6% | 9.2 | 0.061 | 0.30 | 9 | \$40.00 | Installation of a high efficiency room air conditioner instead of standard room air conditioner in homes with room air conditioning and any form of electric heating other than baseboard heating | 102.2% | 32.0% | 0.32 |
| 2096 | Room AC Retirement | MF | ALL | Retrofit | 1,662.6 | 10.0% | 166.0 | 0.640 | 0.30 | 4 | \$60.00 | Retirement of supplemental room air conditioners (not primary or secondary) in homes with room air conditioners | 47.0% | 0.0% | 1.35 |
| 2097 | Programmable Thermostat (electric heating and air conditioning) | MF | NLI | Retrofit | 2,859.5 | 2.8% | 79.3 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with electric heating and air conditioning | 20.4% | 52.0% | 0.53 |
| 2098 | Smart Thermostat (electric heating and air conditioning) | MF | NLI | Retrofit | 2,859.5 | 12.8% | 364.9 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with electric heating and air conditioning | 20.4% | 52.0% | 0.62 |
| 2099 | Programmable Thermostat (non-electric heating and air conditioning) | MF | NLI | Retrofit | 1,894.0 | 2.0% | 37.9 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with non-electric heating and air conditioning | 72.6% | 52.0% | 0.27 |
| 2100 | Smart Thermostat (non-electric heating and air conditioning) | MF | NLI | Retrofit | 1,894.0 | 14.6% | 276.6 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with non-electric heating and air conditioning | 72.6% | 52.0% | 0.50 |
| 2101 | Residential Whole House Fan | MF | ALL | Retrofit | 1,894.0 | 4.2% | 80.3 | 0.000 | 0.65 | 15 | \$533.86 | Installation of residential whole house fan in homes with air conditioning | 93.0% | 9.1% | 0.09 |
| 2102 | Central AC Maintenance (10.4 SEER to 11 SEER) | MF | LI | Retrofit | 1,957.0 | 3.2% | 63.0 | 0.092 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of central AC units in homes with central air conditioning | 52.0% | 54.0% | 0.45 |
| 2103 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) | MF | LI | ROB | 1,466.0 | 12.3% | 180.0 | 0.122 | 0.65 | 14 | \$1,141.46 | Installation of 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 52.0% | 22.0% | 0.14 |
| 2104 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) | MF | LI | ROB | 1,466.0 | 17.5% | 256.0 | 0.174 | 0.65 | 14 | \$2,321.59 | Installation of 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 52.0% | 22.0% | 0.10 |
| 2105 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) - with proper sizing | MF | LI | ROB | 1,466.0 | 12.0% | 176.0 | 0.114 | 0.65 | 14 | \$856.10 | Installation of properly sized 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 52.0% | 22.0% | 0.18 |
| 2106 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) - with proper sizing | MF | LI | ROB | 1,466.0 | 20.7% | 304.0 | 0.179 | 0.65 | 14 | \$1,741.19 | Installation of properly sized 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 52.0% | 22.0% | 0.14 |
| 2107 | Air Source Heat Pump Maintenance (12.3 SEER to 13 SEER / 7.3 hspf to 7.7 hspf) | MF | LI | ROB | 2,573.0 | 10.8% | 278.0 | 0.105 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of air-source heat pump in homes with air-source heat pumps | 6.5% | 69.0% | 1.10 |
| 2108 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 15 SEER / 8.5 hspf) | MF | LI | ROB | 2,150.0 | 3.4% | 73.0 | 0.032 | 0.65 | 12 | \$781.39 | Installation of 15 SEER / 8.5 hspf instead of standard air-source heat pump in homes with heat pumps | 6.5% | 22.0% | 0.06 |
| 2109 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 16 SEER / 9.0 hspf) | MF | LI | ROB | 2,150.0 | 7.4% | 160.0 | 0.048 | 0.65 | 12 | \$1,046.23 | Installation of 16 SEER / 9.0 hspf instead of standard air-source heat pump in homes with heat pumps | 6.5% | 22.0% | 0.09 |
| 2110 | ENERGY STAR Air Source Heat Pump (Elec Furnace / CAC to 16 SEER / 9.0 hspf) | MF | LI | ROB | 3,316.0 | 40.0% | 1,326.0 | 0.378 | 0.65 | 12 | \$2,172.26 | Installation of 16 SEER / 9.0 hspf instead of electric furnace in homes with electric furnaces | 0.7% | 0.0% | 0.35 |
| 2111 | Furnace Whistle - electric heating and central AC | MF | LI | Retrofit | 2,423.8 | 2.5% | 59.7 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on electric furnaces in homes with electric forced air heating | 9.0% | 10.0% | 56.24 |
| 2112 | Furnace Whistle - non-electric heating and central AC | MF | LI | Retrofit | 1,894.0 | 0.9% | 17.3 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on non-electric furnaces in homes with non-electric forced air heating | 52.0% | 10.0% | 34.59 |

Measure Assumptions - Met-Ed

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|---|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|---|-----------------|---------------|-------------------|
| 2113 | High Efficiency Room Air Conditioner (11 CEER to 12 CEER) | MF | LI | ROB | 1,632.0 | 0.6% | 9.2 | 0.061 | 0.30 | 9 | \$40.00 | Installation of a high efficiency room air conditioner instead of standard room air conditioner in homes with room air conditioning and any form of electric heating other than baseboard heating | 102.2% | 32.0% | 0.32 |
| 2114 | Programmable Thermostat (electric heating and air conditioning) | MF | LI | Retrofit | 2,859.5 | 2.8% | 79.3 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with electric heating and air conditioning | 20.4% | 52.0% | 0.53 |
| 2115 | Smart Thermostat (electric heating and air conditioning) | MF | LI | Retrofit | 2,859.5 | 12.8% | 364.9 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with electric heating and air conditioning | 20.4% | 52.0% | 0.62 |
| 2116 | Programmable Thermostat (non-electric heating and air conditioning) | MF | LI | Retrofit | 1,894.0 | 2.0% | 37.9 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with non-electric heating and air conditioning | 72.6% | 52.0% | 0.27 |
| 2117 | Smart Thermostat (non-electric heating and air conditioning) | MF | LI | Retrofit | 1,894.0 | 14.6% | 276.6 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with non-electric heating and air conditioning | 72.6% | 52.0% | 0.50 |
| 3000 | Domestic Hot Water | | | | | | | | | | | | | | |
| 3001 | Water Heater Temperature Setback | SFD | NLI | Retrofit | 1,966.9 | 7.7% | 151.3 | 0.012 | 1.00 | 4 | \$5.00 | Lowering water heater setpoint from 130 to 120 degrees | 46.1% | 81.6% | 6.16 |
| 3002 | Water Heater Pipe Insulation | SFD | NLI | Retrofit | 3,338.0 | 3.0% | 100.0 | 0.008 | 1.00 | 13 | \$30.00 | Installation of foam insulation on 10 feet of exposed pipe in unconditioned 3/4" thick. | 46.1% | 20.0% | 1.84 |
| 3003 | Low Flow Faucet Aerators - Bathroom | SFD | NLI | Retrofit | 71.2 | 31.9% | 22.7 | 0.003 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in bathroom to replace standard flow aerator | 148.8% | 26.0% | 7.73 |
| 3004 | Low Flow Faucet Aerators - Kitchen | SFD | NLI | Retrofit | 613.3 | 31.9% | 195.9 | 0.026 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in kitchen to replace standard flow aerator | 46.1% | 26.0% | 66.64 |
| 3005 | Low Flow Showerheads | SFD | NLI | Retrofit | 903.2 | 40.0% | 361.3 | 0.029 | 1.00 | 9 | \$6.00 | Installation of low flow showerhead in to replace standard flow showerhead | 84.9% | 20.0% | 24.66 |
| 3006 | Thermostatic Shower Restriction Valve | SFD | ALL | Retrofit | 106.1 | 100.0% | 106.1 | 0.009 | 1.00 | 10 | \$30.00 | Installation of thermostatic restriction valve to reduce hot water usage during shower warm-up in homes with electric water heating | 84.9% | 1.0% | 1.57 |
| 3007 | Drain Water Heat Recovery Device | SFD | NLI | Retrofit | 556.5 | 45.4% | 252.7 | 0.041 | 0.70 | 20 | \$1,022.00 | Installation of a drain water heat recovery device to recapture heated wastewater in homes with electric water heating | 46.1% | 1.0% | 0.16 |
| 3008 | Water Heater Tank Wrap | SFD | NLI | Retrofit | 389.1 | 54.9% | 213.6 | 0.024 | 1.00 | 7 | \$50.00 | Installation of insulated tank wrap to existing residential electric hot water heaters | 46.1% | 6.0% | 1.48 |
| 3009 | Heat Pump Water Heaters (50 - 75 gallon) | SFD | NLI | ROB | 3,005.7 | 45.7% | 1,373.3 | 0.111 | 1.00 | 14 | \$945.00 | Installation of 50-75 gallon heat pump water heater instead of standard storage electric storage water heater | 39.2% | 5.0% | 0.61 |
| 3010 | Solar Water Heaters | SFD | NLI | ROB | 3,005.7 | 48.6% | 1,462.0 | 0.118 | 1.00 | 15 | \$5,384.00 | Installation of solar water heater instead of standard storage electric storage water heater | 39.2% | 5.0% | 0.17 |
| 3011 | Heat Pump Water Heaters (75+ gallon) | SFD | NLI | ROB | 1,449.6 | 2.1% | 30.1 | 0.002 | 1.00 | 14 | \$1,369.00 | Installation of 75+ gallon heat pump water heater instead of standard storage electric storage water heater | 6.9% | 5.0% | 0.01 |
| 3012 | Water Heater Temperature Setback | SFD | LI | Retrofit | 1,966.9 | 7.7% | 151.3 | 0.012 | 1.00 | 4 | \$5.00 | Lowering water heater setpoint from 130 to 120 degrees | 46.1% | 81.6% | 6.16 |
| 3013 | Water Heater Pipe Insulation | SFD | LI | Retrofit | 3,338.0 | 3.0% | 100.0 | 0.008 | 1.00 | 13 | \$30.00 | Installation of foam insulation on 10 feet of exposed pipe in unconditioned 3/4" thick. | 46.1% | 20.0% | 1.84 |
| 3014 | Low Flow Faucet Aerators - Bathroom | SFD | LI | Retrofit | 71.2 | 31.9% | 22.7 | 0.003 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in bathroom to replace standard flow aerator | 148.8% | 26.0% | 7.73 |
| 3015 | Low Flow Faucet Aerators - Kitchen | SFD | LI | Retrofit | 613.3 | 31.9% | 195.9 | 0.026 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in kitchen to replace standard flow aerator | 46.1% | 26.0% | 66.64 |
| 3016 | Low Flow Showerheads | SFD | LI | Retrofit | 903.2 | 40.0% | 361.3 | 0.029 | 1.00 | 9 | \$6.00 | Installation of low flow showerhead in to replace standard flow showerhead | 84.9% | 20.0% | 24.66 |
| 3017 | Drain Water Heat Recovery Device | SFD | LI | Retrofit | 556.5 | 45.4% | 252.7 | 0.041 | 0.70 | 20 | \$1,022.00 | Installation of a drain water heat recovery device to recapture heated wastewater in homes with electric water heating | 46.1% | 1.0% | 0.16 |
| 3018 | Water Heater Tank Wrap | SFD | LI | Retrofit | 389.1 | 54.9% | 213.6 | 0.024 | 1.00 | 7 | \$50.00 | Installation of insulated tank wrap to existing residential electric hot water heaters | 46.1% | 6.0% | 1.48 |
| 3019 | Heat Pump Water Heaters (50 - 75 gallon) | SFD | LI | ROB | 3,005.7 | 45.7% | 1,373.3 | 0.111 | 1.00 | 14 | \$945.00 | Installation of 50-75 gallon heat pump water heater instead of standard storage electric storage water heater | 39.2% | 5.0% | 0.61 |
| 3020 | Solar Water Heaters | SFD | LI | ROB | 3,005.7 | 48.6% | 1,462.0 | 0.118 | 1.00 | 15 | \$5,384.00 | Installation of solar water heater instead of standard storage electric storage water heater | 39.2% | 5.0% | 0.17 |
| 3021 | Heat Pump Water Heaters (75+ gallon) | SFD | LI | ROB | 1,449.6 | 2.1% | 30.1 | 0.002 | 1.00 | 14 | \$1,369.00 | Installation of 75+ gallon heat pump water heater instead of standard storage electric storage water heater | 6.9% | 5.0% | 0.01 |
| 3022 | Water Heater Temperature Setback | SFD | ALL | NC | 1,966.9 | 7.7% | 151.3 | 0.012 | 1.00 | 4 | \$5.00 | Lowering water heater setpoint from 130 to 120 degrees | 46.1% | 0.0% | 6.16 |
| 3023 | Water Heater Pipe Insulation | SFD | ALL | NC | 3,338.0 | 3.0% | 100.0 | 0.008 | 1.00 | 13 | \$30.00 | Installation of foam insulation on 10 feet of exposed pipe in unconditioned 3/4" thick. | 46.1% | 0.0% | 1.84 |
| 3024 | Low Flow Faucet Aerators - Bathroom | SFD | ALL | NC | 71.2 | 31.9% | 22.7 | 0.003 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in bathroom to replace standard flow aerator | 148.8% | 0.0% | 7.73 |
| 3025 | Low Flow Faucet Aerators - Kitchen | SFD | ALL | NC | 613.3 | 31.9% | 195.9 | 0.026 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in kitchen to replace standard flow aerator | 46.1% | 0.0% | 66.64 |
| 3026 | Low Flow Showerheads | SFD | ALL | NC | 903.2 | 40.0% | 361.3 | 0.029 | 1.00 | 9 | \$6.00 | Installation of low flow showerhead in to replace standard flow showerhead | 84.9% | 0.0% | 24.66 |
| 3027 | Thermostatic Shower Restriction Valve | SFD | ALL | NC | 106.1 | 100.0% | 106.1 | 0.009 | 1.00 | 10 | \$30.00 | Installation of thermostatic restriction valve to reduce hot water usage during shower warm-up in homes with electric water heating | 84.9% | 0.0% | 1.57 |

Measure Assumptions - Met-Ed

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|---|-----------------|---------------|-------------------|
| 3028 | Drain Water Heat Recovery Device | SFD | ALL | NC | 556.5 | 45.4% | 252.7 | 0.041 | 0.70 | 20 | \$1,022.00 | Installation of a drain water heat recovery device to recapture heated wastewater in homes with electric water heating | 46.1% | 0.0% | 0.16 |
| 3029 | Water Heater Tank Wrap | SFD | ALL | NC | 389.1 | 54.9% | 213.6 | 0.024 | 1.00 | 7 | \$50.00 | Installation of insulated tank wrap to existing residential electric hot water heaters | 46.1% | 0.0% | 1.48 |
| 3030 | Heat Pump Water Heaters (50 - 75 gallon) | SFD | ALL | NC | 3,005.7 | 45.7% | 1,373.3 | 0.111 | 1.00 | 14 | \$945.00 | Installation of 50-75 gallon heat pump water heater instead of standard storage electric storage water heater | 39.2% | 0.0% | 0.61 |
| 3031 | Solar Water Heaters | SFD | ALL | NC | 3,005.7 | 48.6% | 1,462.0 | 0.118 | 1.00 | 15 | \$5,384.00 | Installation of solar water heater instead of standard storage electric storage water heater | 39.2% | 0.0% | 0.17 |
| 3032 | Heat Pump Water Heaters (75+ gallon) | SFD | ALL | NC | 1,449.6 | 2.1% | 30.1 | 0.002 | 1.00 | 14 | \$1,369.00 | Installation of 75+ gallon heat pump water heater instead of standard storage electric storage water heater | 6.9% | 0.0% | 0.01 |
| 3033 | Water Heater Temperature Setback | SFA | NLI | Retrofit | 1,966.9 | 7.7% | 151.3 | 0.012 | 1.00 | 4 | \$5.00 | Lowering water heater setpoint from 130 to 120 degrees | 46.1% | 81.6% | 6.16 |
| 3034 | Water Heater Pipe Insulation | SFA | NLI | Retrofit | 3,338.0 | 3.0% | 100.0 | 0.008 | 1.00 | 13 | \$30.00 | Installation of foam insulation on 10 feet of exposed pipe in unconditioned 3/4" thick. | 46.1% | 20.0% | 1.84 |
| 3035 | Low Flow Faucet Aerators - Bathroom | SFA | NLI | Retrofit | 71.2 | 31.9% | 22.7 | 0.003 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in bathroom to replace standard flow aerator | 114.7% | 26.0% | 7.73 |
| 3036 | Low Flow Faucet Aerators - Kitchen | SFA | NLI | Retrofit | 613.3 | 31.9% | 195.9 | 0.026 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in kitchen to replace standard flow aerator | 46.1% | 26.0% | 66.64 |
| 3037 | Low Flow Showerheads | SFA | NLI | Retrofit | 903.2 | 40.0% | 361.3 | 0.029 | 1.00 | 9 | \$6.00 | Installation of low flow showerhead in to replace standard flow showerhead | 78.4% | 20.0% | 24.66 |
| 3038 | Thermostatic Shower Restriction Valve | SFA | ALL | Retrofit | 106.1 | 100.0% | 106.1 | 0.009 | 1.00 | 10 | \$30.00 | Installation of thermostatic restriction valve to reduce hot water usage during shower warm-up in homes with electric water heating | 78.4% | 1.0% | 1.57 |
| 3039 | Drain Water Heat Recovery Device | SFA | NLI | Retrofit | 556.5 | 45.4% | 252.7 | 0.041 | 0.70 | 20 | \$1,022.00 | Installation of a drain water heat recovery device to recapture heated wastewater in homes with electric water heating | 46.1% | 1.0% | 0.16 |
| 3040 | Water Heater Tank Wrap | SFA | NLI | Retrofit | 389.1 | 54.9% | 213.6 | 0.024 | 1.00 | 7 | \$50.00 | Installation of insulated tank wrap to existing residential electric hot water heaters | 46.1% | 6.0% | 1.48 |
| 3041 | Heat Pump Water Heaters (50 - 75 gallon) | SFA | NLI | ROB | 3,005.7 | 45.7% | 1,373.3 | 0.111 | 1.00 | 14 | \$945.00 | Installation of 50-75 gallon heat pump water heater instead of standard storage electric storage water heater | 39.2% | 5.0% | 0.61 |
| 3042 | Solar Water Heaters | SFA | NLI | ROB | 3,005.7 | 48.6% | 1,462.0 | 0.118 | 1.00 | 15 | \$5,384.00 | Installation of solar water heater instead of standard storage electric storage water heater | 39.2% | 5.0% | 0.17 |
| 3043 | Heat Pump Water Heaters (75+ gallon) | SFA | NLI | ROB | 1,449.6 | 2.1% | 30.1 | 0.002 | 1.00 | 14 | \$1,369.00 | Installation of 75+ gallon heat pump water heater instead of standard storage electric storage water heater | 6.9% | 5.0% | 0.01 |
| 3044 | Water Heater Temperature Setback | SFA | LI | Retrofit | 1,966.9 | 7.7% | 151.3 | 0.012 | 1.00 | 4 | \$5.00 | Lowering water heater setpoint from 130 to 120 degrees | 46.1% | 81.6% | 6.16 |
| 3045 | Water Heater Pipe Insulation | SFA | LI | Retrofit | 3,338.0 | 3.0% | 100.0 | 0.008 | 1.00 | 13 | \$30.00 | Installation of foam insulation on 10 feet of exposed pipe in unconditioned 3/4" thick. | 46.1% | 20.0% | 1.84 |
| 3046 | Low Flow Faucet Aerators - Bathroom | SFA | LI | Retrofit | 71.2 | 31.9% | 22.7 | 0.003 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in bathroom to replace standard flow aerator | 114.7% | 26.0% | 7.73 |
| 3047 | Low Flow Faucet Aerators - Kitchen | SFA | LI | Retrofit | 613.3 | 31.9% | 195.9 | 0.026 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in kitchen to replace standard flow aerator | 46.1% | 26.0% | 66.64 |
| 3048 | Low Flow Showerheads | SFA | LI | Retrofit | 903.2 | 40.0% | 361.3 | 0.029 | 1.00 | 9 | \$6.00 | Installation of low flow showerhead in to replace standard flow showerhead | 78.4% | 20.0% | 24.66 |
| 3049 | Drain Water Heat Recovery Device | SFA | LI | Retrofit | 556.5 | 45.4% | 252.7 | 0.041 | 0.70 | 20 | \$1,022.00 | Installation of a drain water heat recovery device to recapture heated wastewater in homes with electric water heating | 46.1% | 1.0% | 0.16 |
| 3050 | Water Heater Tank Wrap | SFA | LI | Retrofit | 389.1 | 54.9% | 213.6 | 0.024 | 1.00 | 7 | \$50.00 | Installation of insulated tank wrap to existing residential electric hot water heaters | 46.1% | 6.0% | 1.48 |
| 3051 | Heat Pump Water Heaters (50 - 75 gallon) | SFA | LI | ROB | 3,005.7 | 45.7% | 1,373.3 | 0.111 | 1.00 | 14 | \$945.00 | Installation of 50-75 gallon heat pump water heater instead of standard storage electric storage water heater | 39.2% | 5.0% | 0.61 |
| 3052 | Solar Water Heaters | SFA | LI | ROB | 3,005.7 | 48.6% | 1,462.0 | 0.118 | 1.00 | 15 | \$5,384.00 | Installation of solar water heater instead of standard storage electric storage water heater | 39.2% | 5.0% | 0.17 |
| 3053 | Heat Pump Water Heaters (75+ gallon) | SFA | LI | ROB | 1,449.6 | 2.1% | 30.1 | 0.002 | 1.00 | 14 | \$1,369.00 | Installation of 75+ gallon heat pump water heater instead of standard storage electric storage water heater | 6.9% | 5.0% | 0.01 |
| 3054 | Water Heater Temperature Setback | SFA | ALL | NC | 1,966.9 | 7.7% | 151.3 | 0.012 | 1.00 | 4 | \$5.00 | Lowering water heater setpoint from 130 to 120 degrees | 46.1% | 0.0% | 6.16 |
| 3055 | Water Heater Pipe Insulation | SFA | ALL | NC | 3,338.0 | 3.0% | 100.0 | 0.008 | 1.00 | 13 | \$30.00 | Installation of foam insulation on 10 feet of exposed pipe in unconditioned 3/4" thick. | 46.1% | 0.0% | 1.84 |
| 3056 | Low Flow Faucet Aerators - Bathroom | SFA | ALL | NC | 71.2 | 31.9% | 22.7 | 0.003 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in bathroom to replace standard flow aerator | 114.7% | 0.0% | 7.73 |
| 3057 | Low Flow Faucet Aerators - Kitchen | SFA | ALL | NC | 613.3 | 31.9% | 195.9 | 0.026 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in kitchen to replace standard flow aerator | 46.1% | 0.0% | 66.64 |
| 3058 | Low Flow Showerheads | SFA | ALL | NC | 903.2 | 40.0% | 361.3 | 0.029 | 1.00 | 9 | \$6.00 | Installation of low flow showerhead in to replace standard flow showerhead | 78.4% | 0.0% | 24.66 |
| 3059 | Thermostatic Shower Restriction Valve | SFA | ALL | NC | 106.1 | 100.0% | 106.1 | 0.009 | 1.00 | 10 | \$30.00 | Installation of thermostatic restriction valve to reduce hot water usage during shower warm-up in homes with electric water heating | 78.4% | 0.0% | 1.57 |
| 3060 | Drain Water Heat Recovery Device | SFA | ALL | NC | 556.5 | 45.4% | 252.7 | 0.041 | 0.70 | 20 | \$1,022.00 | Installation of a drain water heat recovery device to recapture heated wastewater in homes with electric water heating | 46.1% | 0.0% | 0.16 |

Measure Assumptions - Met-Ed

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|---|-----------------|---------------|-------------------|
| 3061 | Water Heater Tank Wrap | SFA | ALL | NC | 389.1 | 54.9% | 213.6 | 0.024 | 1.00 | 7 | \$50.00 | Installation of insulated tank wrap to existing residential electric hot water heaters | 46.1% | 0.0% | 1.48 |
| 3062 | Heat Pump Water Heaters (50 - 75 gallon) | SFA | ALL | NC | 3,005.7 | 45.7% | 1,373.3 | 0.111 | 1.00 | 14 | \$945.00 | Installation of 50-75 gallon heat pump water heater instead of standard storage electric storage water heater | 39.2% | 0.0% | 0.61 |
| 3063 | Solar Water Heaters | SFA | ALL | NC | 3,005.7 | 48.6% | 1,462.0 | 0.118 | 1.00 | 15 | \$5,384.00 | Installation of solar water heater instead of standard storage electric storage water heater | 39.2% | 0.0% | 0.17 |
| 3064 | Heat Pump Water Heaters (75+ gallon) | SFA | ALL | NC | 1,449.6 | 2.1% | 30.1 | 0.002 | 1.00 | 14 | \$1,369.00 | Installation of 75+ gallon heat pump water heater instead of standard storage electric storage water heater | 6.9% | 0.0% | 0.01 |
| 3065 | Water Heater Temperature Setback | MF | NLI | Retrofit | 1,966.9 | 7.7% | 151.3 | 0.012 | 1.00 | 4 | \$5.00 | Lowering water heater setpoint from 130 to 120 degrees | 46.1% | 81.6% | 6.16 |
| 3066 | Water Heater Pipe Insulation | MF | NLI | Retrofit | 3,338.0 | 3.0% | 100.0 | 0.008 | 1.00 | 13 | \$30.00 | Installation of foam insulation on 10 feet of exposed pipe in unconditioned 3/4" thick. | 46.1% | 20.0% | 1.84 |
| 3067 | Low Flow Faucet Aerators - Bathroom | MF | NLI | Retrofit | 120.7 | 31.9% | 38.5 | 0.005 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in bathroom to replace standard flow aerator | 70.9% | 26.0% | 13.12 |
| 3068 | Low Flow Faucet Aerators - Kitchen | MF | NLI | Retrofit | 485.6 | 31.9% | 155.1 | 0.021 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in kitchen to replace standard flow aerator | 46.1% | 26.0% | 52.76 |
| 3069 | Low Flow Showerheads | MF | NLI | Retrofit | 845.0 | 40.0% | 338.0 | 0.027 | 1.00 | 9 | \$6.00 | Installation of low flow showerhead in to replace standard flow showerhead | 71.8% | 20.0% | 23.08 |
| 3070 | Thermostatic Shower Restriction Valve | MF | ALL | Retrofit | 99.3 | 100.0% | 99.3 | 0.008 | 1.00 | 10 | \$30.00 | Installation of thermostatic restriction valve to reduce hot water usage during shower warm-up in homes with electric water heating | 71.8% | 1.0% | 1.47 |
| 3071 | Drain Water Heat Recovery Device | MF | NLI | Retrofit | 371.0 | 45.4% | 168.4 | 0.027 | 0.70 | 20 | \$1,022.00 | Installation of a drain water heat recovery device to recapture heated wastewater in homes with electric water heating | 46.1% | 1.0% | 0.11 |
| 3072 | Water Heater Tank Wrap | MF | NLI | Retrofit | 389.1 | 54.9% | 213.6 | 0.024 | 1.00 | 7 | \$50.00 | Installation of insulated tank wrap to existing residential electric hot water heaters | 46.1% | 6.0% | 1.48 |
| 3073 | Heat Pump Water Heaters (50 - 75 gallon) | MF | NLI | ROB | 3,005.7 | 45.7% | 1,373.3 | 0.111 | 1.00 | 14 | \$945.00 | Installation of 50-75 gallon heat pump water heater instead of standard storage electric storage water heater | 39.2% | 5.0% | 0.61 |
| 3074 | Solar Water Heaters | MF | NLI | ROB | 3,005.7 | 48.6% | 1,462.0 | 0.118 | 1.00 | 15 | \$5,384.00 | Installation of solar water heater instead of standard storage electric storage water heater | 39.2% | 5.0% | 0.17 |
| 3075 | Heat Pump Water Heaters (75+ gallon) | MF | NLI | ROB | 1,449.6 | 2.1% | 30.1 | 0.002 | 1.00 | 14 | \$1,369.00 | Installation of 75+ gallon heat pump water heater instead of standard storage electric storage water heater | 6.9% | 5.0% | 0.01 |
| 3076 | Water Heater Temperature Setback | MF | LI | Retrofit | 1,966.9 | 7.7% | 151.3 | 0.012 | 1.00 | 4 | \$5.00 | Lowering water heater setpoint from 130 to 120 degrees | 46.1% | 81.6% | 6.16 |
| 3077 | Water Heater Pipe Insulation | MF | LI | Retrofit | 3,338.0 | 3.0% | 100.0 | 0.008 | 1.00 | 13 | \$30.00 | Installation of foam insulation on 10 feet of exposed pipe in unconditioned 3/4" thick. | 46.1% | 20.0% | 1.84 |
| 3078 | Low Flow Faucet Aerators - Bathroom | MF | LI | Retrofit | 120.7 | 31.9% | 38.5 | 0.005 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in bathroom to replace standard flow aerator | 70.9% | 26.0% | 13.12 |
| 3079 | Low Flow Faucet Aerators - Kitchen | MF | LI | Retrofit | 485.6 | 31.9% | 155.1 | 0.021 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in kitchen to replace standard flow aerator | 46.1% | 26.0% | 52.76 |
| 3080 | Low Flow Showerheads | MF | LI | Retrofit | 845.0 | 40.0% | 338.0 | 0.027 | 1.00 | 9 | \$6.00 | Installation of low flow showerhead in to replace standard flow showerhead | 71.8% | 20.0% | 23.08 |
| 3081 | Drain Water Heat Recovery Device | MF | LI | Retrofit | 371.0 | 45.4% | 168.4 | 0.027 | 0.70 | 20 | \$1,022.00 | Installation of a drain water heat recovery device to recapture heated wastewater in homes with electric water heating | 46.1% | 1.0% | 0.11 |
| 3082 | Water Heater Tank Wrap | MF | LI | Retrofit | 389.1 | 54.9% | 213.6 | 0.024 | 1.00 | 7 | \$50.00 | Installation of insulated tank wrap to existing residential electric hot water heaters | 46.1% | 6.0% | 1.48 |
| 3083 | Heat Pump Water Heaters (50 - 75 gallon) | MF | LI | ROB | 3,005.7 | 45.7% | 1,373.3 | 0.111 | 1.00 | 14 | \$945.00 | Installation of 50-75 gallon heat pump water heater instead of standard storage electric storage water heater | 39.2% | 5.0% | 0.61 |
| 3084 | Solar Water Heaters | MF | LI | ROB | 3,005.7 | 48.6% | 1,462.0 | 0.118 | 1.00 | 15 | \$5,384.00 | Installation of solar water heater instead of standard storage electric storage water heater | 39.2% | 5.0% | 0.17 |
| 3085 | Heat Pump Water Heaters (75+ gallon) | MF | LI | ROB | 1,449.6 | 2.1% | 30.1 | 0.002 | 1.00 | 14 | \$1,369.00 | Installation of 75+ gallon heat pump water heater instead of standard storage electric storage water heater | 6.9% | 5.0% | 0.01 |
| 3086 | Water Heater Temperature Setback | MF | ALL | NC | 1,966.9 | 7.7% | 151.3 | 0.012 | 1.00 | 4 | \$5.00 | Lowering water heater setpoint from 130 to 120 degrees | 46.1% | 0.0% | 6.16 |
| 3087 | Water Heater Pipe Insulation | MF | ALL | NC | 3,338.0 | 3.0% | 100.0 | 0.008 | 1.00 | 13 | \$30.00 | Installation of foam insulation on 10 feet of exposed pipe in unconditioned 3/4" thick. | 46.1% | 0.0% | 1.84 |
| 3088 | Low Flow Faucet Aerators - Bathroom | MF | ALL | NC | 120.7 | 31.9% | 38.5 | 0.005 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in bathroom to replace standard flow aerator | 70.9% | 0.0% | 13.12 |
| 3089 | Low Flow Faucet Aerators - Kitchen | MF | ALL | NC | 485.6 | 31.9% | 155.1 | 0.021 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in kitchen to replace standard flow aerator | 46.1% | 0.0% | 52.76 |
| 3090 | Low Flow Showerheads | MF | ALL | NC | 845.0 | 40.0% | 338.0 | 0.027 | 1.00 | 9 | \$6.00 | Installation of low flow showerhead in to replace standard flow showerhead | 71.8% | 0.0% | 23.08 |
| 3091 | Thermostatic Shower Restriction Valve | MF | ALL | NC | 99.3 | 100.0% | 99.3 | 0.008 | 1.00 | 10 | \$30.00 | Installation of thermostatic restriction valve to reduce hot water usage during shower warm-up in homes with electric water heating | 71.8% | 0.0% | 1.47 |
| 3092 | Drain Water Heat Recovery Device | MF | ALL | NC | 371.0 | 45.4% | 168.4 | 0.027 | 0.70 | 20 | \$1,022.00 | Installation of a drain water heat recovery device to recapture heated wastewater in homes with electric water heating | 46.1% | 0.0% | 0.11 |
| 3093 | Water Heater Tank Wrap | MF | ALL | NC | 389.1 | 54.9% | 213.6 | 0.024 | 1.00 | 7 | \$50.00 | Installation of insulated tank wrap to existing residential electric hot water heaters | 46.1% | 0.0% | 1.48 |
| 3094 | Heat Pump Water Heaters (50 - 75 gallon) | MF | ALL | NC | 3,005.7 | 45.7% | 1,373.3 | 0.111 | 1.00 | 14 | \$945.00 | Installation of 50-75 gallon heat pump water heater instead of standard storage electric storage water heater | 39.2% | 0.0% | 0.61 |

Measure Assumptions - Met-Ed

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|--|-----------------|---------------|-------------------|
| 3095 | Solar Water Heaters | MF | ALL | NC | 3,005.7 | 48.6% | 1,462.0 | 0.118 | 1.00 | 15 | \$5,384.00 | Installation of solar water heater instead of standard storage electric storage water heater | 39.2% | 0.0% | 0.17 |
| 3096 | Heat Pump Water Heaters (75+ gallon) | MF | ALL | NC | 1,449.6 | 2.1% | 30.1 | 0.002 | 1.00 | 14 | \$1,369.00 | Installation of 75+ gallon heat pump water heater instead of standard storage electric storage water heater | 6.9% | 0.0% | 0.01 |
| 4000 | Appliances | | | | | | | | | | | | | | |
| 4001 | Refrigerator Recycling with Replacement | SFD | NLI | Retrofit | 1,053.1 | 44.6% | 469.8 | 0.053 | 1.00 | 7 | \$120.00 | Retirement and replacement of non-primary refrigerators in homes with more than one refrigerator; replacement unit assumed to be standard efficiency model | 46.0% | 0.0% | 1.35 |
| 4002 | Refrigerator Recycling without Replacement | SFD | NLI | Retrofit | 1,053.1 | 100.0% | 1,053.1 | 0.118 | 1.00 | 8 | \$120.00 | Retirement (no replacement) of non-primary refrigerators in homes with more than one refrigerator | 46.0% | 0.0% | 3.39 |
| 4003 | Freezer Recycling with Replacement | SFD | ALL | Retrofit | 1,078.4 | 51.9% | 559.4 | 0.063 | 1.00 | 7 | \$120.00 | Retirement and replacement of non-primary freezers in homes with more than one freezer; replacement unit assumed to be standard efficiency model | 3.0% | 0.0% | 1.61 |
| 4004 | Freezer Recycling without Replacement | SFD | ALL | Retrofit | 1,078.4 | 100.0% | 1,078.4 | 0.121 | 1.00 | 8 | \$120.00 | Retirement (no replacement) of non-primary freezers in homes with more than one refrigerator | 3.0% | 0.0% | 3.47 |
| 4005 | ENERGY STAR Refrigerators (Top-Mount) | SFD | NLI | ROB | 462.2 | 8.2% | 37.9 | 0.004 | 1.00 | 12 | \$21.83 | Installation of ENERGY STAR top-mount refrigerator instead of standard efficiency unit | 46.9% | 28.0% | 0.93 |
| 4006 | ENERGY STAR Refrigerators (Side-by-Side) | SFD | NLI | ROB | 608.9 | 8.6% | 52.5 | 0.006 | 1.00 | 12 | \$57.31 | Installation of ENERGY STAR side-mount refrigerator instead of standard efficiency unit | 33.7% | 28.0% | 0.49 |
| 4007 | ENERGY STAR Refrigerators (Bottom-Mount) | SFD | NLI | ROB | 644.2 | 8.7% | 55.9 | 0.006 | 1.00 | 12 | \$17.29 | Installation of ENERGY STAR bottom-mount refrigerator instead of standard efficiency unit | 12.2% | 28.0% | 1.72 |
| 4008 | ENERGY STAR Freezers (Upright) | SFD | NLI | ROB | 483.2 | 9.1% | 44.0 | 0.005 | 1.00 | 12 | \$6.75 | Installation of ENERGY STAR upright freezers instead of standard efficiency unit | 20.1% | 23.0% | 3.48 |
| 4009 | ENERGY STAR Freezers (Chest) | SFD | NLI | ROB | 290.1 | 10.0% | 29.0 | 0.003 | 1.00 | 12 | \$5.23 | Installation of ENERGY STAR chest freezers instead of standard efficiency unit | 31.5% | 23.0% | 2.95 |
| 4010 | ENERGY STAR Clothes Washers (Electric Water Heating) | SFD | NLI | ROB | 504.3 | 35.2% | 177.4 | 0.710 | 0.029 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 42.5% | 29.0% | 1.78 |
| 4011 | ENERGY STAR Clothes Washers (Gas Water Heating) | SFD | NLI | ROB | 276.6 | 18.5% | 51.0 | 0.204 | 0.029 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with gas water heating | 49.7% | 29.0% | 0.51 |
| 4012 | ENERGY STAR Dishwashers (Electric Water Heating) | SFD | ALL | ROB | 307.0 | 12.1% | 37.0 | 0.158 | 0.026 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with electric water heating | 27.3% | 45.0% | 1.71 |
| 4013 | ENERGY STAR Dishwashers (Gas Water Heating) | SFD | ALL | ROB | 135.1 | 12.1% | 16.3 | 0.070 | 0.026 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with gas water heating | 31.9% | 45.0% | 0.75 |
| 4014 | ENERGY STAR Dehumidifiers | SFD | NLI | ROB | 792.4 | 18.9% | 149.9 | 0.092 | 0.41 | 12 | \$20.21 | Installation of ENERGY STAR dehumidifier instead of standard efficiency unit | 40.3% | 83.9% | 4.60 |
| 4015 | ENERGY STAR Water Coolers | SFD | ALL | ROB | 799.4 | 60.3% | 481.8 | 0.055 | 1.00 | 10 | \$50.00 | Installation of ENERGY STAR water cooler instead of standard efficiency unit | 1.2% | 68.5% | 4.47 |
| 4016 | ENERGY STAR Air Purifier/Cleaner | SFD | ALL | ROB | 587.0 | 66.6% | 391.0 | 0.067 | 1.00 | 9 | \$70.00 | Installation of ENERGY STAR air purifier instead of standard efficiency unit | 14.0% | 33.3% | 2.55 |
| 4017 | ENERGY STAR Dryers | SFD | ALL | ROB | 538.0 | 5.1% | 27.4 | 0.115 | 0.04 | 13 | \$50.00 | Installation of ENERGY STAR dryer instead of standard efficiency unit in homes with electric dryers | 71.7% | 25.0% | 0.34 |
| 4018 | Refrigerator Recycling with Replacement | SFD | LI | Retrofit | 1,053.1 | 44.6% | 469.8 | 0.053 | 1.00 | 7 | \$120.00 | Retirement and replacement of non-primary refrigerators in homes with more than one refrigerator; replacement unit assumed to be standard efficiency model | 46.0% | 0.0% | 1.35 |
| 4019 | Refrigerator Recycling without Replacement | SFD | LI | Retrofit | 1,053.1 | 100.0% | 1,053.1 | 0.118 | 1.00 | 8 | \$120.00 | Retirement (no replacement) of non-primary refrigerators in homes with more than one refrigerator | 46.0% | 0.0% | 3.39 |
| 4020 | ENERGY STAR Refrigerators (Top-Mount) | SFD | LI | ROB | 462.2 | 8.2% | 37.9 | 0.004 | 1.00 | 12 | \$21.83 | Installation of ENERGY STAR top-mount refrigerator instead of standard efficiency unit | 46.9% | 28.0% | 0.93 |
| 4021 | ENERGY STAR Refrigerators (Side-by-Side) | SFD | LI | ROB | 608.9 | 8.6% | 52.5 | 0.006 | 1.00 | 12 | \$57.31 | Installation of ENERGY STAR side-mount refrigerator instead of standard efficiency unit | 33.7% | 28.0% | 0.49 |
| 4022 | ENERGY STAR Refrigerators (Bottom-Mount) | SFD | LI | ROB | 644.2 | 8.7% | 55.9 | 0.006 | 1.00 | 12 | \$17.29 | Installation of ENERGY STAR bottom-mount refrigerator instead of standard efficiency unit | 12.2% | 28.0% | 1.72 |
| 4023 | ENERGY STAR Freezers (Upright) | SFD | LI | ROB | 483.2 | 9.1% | 44.0 | 0.005 | 1.00 | 12 | \$6.75 | Installation of ENERGY STAR upright freezers instead of standard efficiency unit | 20.1% | 23.0% | 3.48 |
| 4024 | ENERGY STAR Freezers (Chest) | SFD | LI | ROB | 290.1 | 10.0% | 29.0 | 0.003 | 1.00 | 12 | \$5.23 | Installation of ENERGY STAR chest freezers instead of standard efficiency unit | 31.5% | 23.0% | 2.95 |
| 4025 | ENERGY STAR Clothes Washers (Electric Water Heating) | SFD | LI | ROB | 504.3 | 35.2% | 177.4 | 0.710 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 42.5% | 29.0% | 1.78 |
| 4026 | ENERGY STAR Clothes Washers (Gas Water Heating) | SFD | LI | ROB | 276.6 | 18.5% | 51.0 | 0.204 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with gas water heating | 49.7% | 29.0% | 0.51 |
| 4027 | ENERGY STAR Dehumidifiers | SFD | LI | ROB | 792.4 | 18.9% | 149.9 | 0.092 | 0.41 | 12 | \$20.21 | Installation of ENERGY STAR dehumidifier instead of standard efficiency unit | 40.3% | 83.9% | 4.60 |
| 4028 | ENERGY STAR Refrigerators (Top-Mount) | SFD | ALL | NC | 462.2 | 8.2% | 37.9 | 0.004 | 1.00 | 12 | \$21.83 | Installation of ENERGY STAR top-mount refrigerator instead of standard efficiency unit | 46.9% | 0.0% | 0.93 |
| 4029 | ENERGY STAR Refrigerators (Side-by-Side) | SFD | ALL | NC | 608.9 | 8.6% | 52.5 | 0.006 | 1.00 | 12 | \$57.31 | Installation of ENERGY STAR side-mount refrigerator instead of standard efficiency unit | 33.7% | 0.0% | 0.49 |
| 4030 | ENERGY STAR Refrigerators (Bottom-Mount) | SFD | ALL | NC | 644.2 | 8.7% | 55.9 | 0.006 | 1.00 | 12 | \$17.29 | Installation of ENERGY STAR bottom-mount refrigerator instead of standard efficiency unit | 12.2% | 0.0% | 1.72 |

Measure Assumptions - Met-Ed

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|--|-----------------|---------------|-------------------|
| 4031 | ENERGY STAR Freezers (Upright) | SFD | ALL | NC | 483.2 | 9.1% | 44.0 | 0.005 | 1.00 | 12 | \$6.75 | Installation of ENERGY STAR upright freezers instead of standard efficiency unit | 20.1% | 0.0% | 3.48 |
| 4032 | ENERGY STAR Freezers (Chest) | SFD | ALL | NC | 290.1 | 10.0% | 29.0 | 0.003 | 1.00 | 12 | \$5.23 | Installation of ENERGY STAR chest freezers instead of standard efficiency unit | 31.5% | 0.0% | 2.95 |
| 4033 | ENERGY STAR Clothes Washers (Electric Water Heating) | SFD | ALL | NC | 504.3 | 35.2% | 177.4 | 0.710 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 42.5% | 0.0% | 1.78 |
| 4034 | ENERGY STAR Clothes Washers (Gas Water Heating) | SFD | ALL | NC | 276.6 | 18.5% | 51.0 | 0.204 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 49.7% | 0.0% | 0.51 |
| 4035 | ENERGY STAR Dishwashers (Electric Water Heating) | SFD | ALL | NC | 307.0 | 12.1% | 37.0 | 0.158 | 0.03 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with electric water heating | 27.3% | 0.0% | 1.71 |
| 4036 | ENERGY STAR Dishwashers (Gas Water Heating) | SFD | ALL | NC | 135.1 | 12.1% | 16.3 | 0.070 | 0.03 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with gas water heating | 31.9% | 0.0% | 0.75 |
| 4037 | ENERGY STAR Dehumidifiers | SFD | ALL | NC | 792.4 | 18.9% | 149.9 | 0.092 | 0.41 | 12 | \$20.21 | Installation of ENERGY STAR dehumidifier instead of standard efficiency unit | 40.3% | 0.0% | 4.60 |
| 4038 | ENERGY STAR Water Coolers | SFD | ALL | NC | 799.4 | 60.3% | 481.8 | 0.055 | 1.00 | 10 | \$50.00 | Installation of ENERGY STAR water cooler instead of standard efficiency unit | 1.2% | 0.0% | 4.47 |
| 4039 | ENERGY STAR Air Purifier/Cleaner | SFD | ALL | NC | 587.0 | 66.6% | 391.0 | 0.067 | 1.00 | 9 | \$70.00 | Installation of ENERGY STAR air purifier instead of standard efficiency unit | 14.0% | 0.0% | 2.55 |
| 4040 | ENERGY STAR Dryers | SFD | ALL | NC | 538.0 | 5.1% | 27.4 | 0.115 | 0.04 | 13 | \$50.00 | Installation of ENERGY STAR dryer instead of standard efficiency unit in homes with electric dryers | 71.7% | 0.0% | 0.34 |
| 4041 | Refrigerator Recycling with Replacement | SFA | NLI | Retrofit | 1,053.1 | 44.6% | 469.8 | 0.053 | 1.00 | 7 | \$120.00 | Retirement and replacement of non-primary refrigerators in homes with more than one refrigerator; replacement unit assumed to be standard efficiency model | 46.0% | 0.0% | 1.35 |
| 4042 | Refrigerator Recycling without Replacement | SFA | NLI | Retrofit | 1,053.1 | 100.0% | 1,053.1 | 0.118 | 1.00 | 8 | \$120.00 | Retirement (no replacement) of non-primary refrigerators in homes with more than one refrigerator | 46.0% | 0.0% | 3.39 |
| 4043 | Freezer Recycling with Replacement | SFA | ALL | Retrofit | 1,078.4 | 51.9% | 559.4 | 0.063 | 1.00 | 7 | \$120.00 | Retirement and replacement of non-primary freezers in homes with more than one freezer; replacement unit assumed to be standard efficiency model | 3.0% | 0.0% | 1.61 |
| 4044 | Freezer Recycling without Replacement | SFA | ALL | Retrofit | 1,078.4 | 100.0% | 1,078.4 | 0.121 | 1.00 | 8 | \$120.00 | Retirement (no replacement) of non-primary refrigerators in homes with more than one refrigerator | 3.0% | 0.0% | 3.47 |
| 4045 | ENERGY STAR Refrigerators (Top-Mount) | SFA | NLI | ROB | 462.2 | 8.2% | 37.9 | 0.004 | 1.00 | 12 | \$21.83 | Installation of ENERGY STAR top-mount refrigerator instead of standard efficiency unit | 46.9% | 28.0% | 0.93 |
| 4046 | ENERGY STAR Refrigerators (Side-by-Side) | SFA | NLI | ROB | 608.9 | 8.6% | 52.5 | 0.006 | 1.00 | 12 | \$57.31 | Installation of ENERGY STAR side-mount refrigerator instead of standard efficiency unit | 33.7% | 28.0% | 0.49 |
| 4047 | ENERGY STAR Refrigerators (Bottom-Mount) | SFA | NLI | ROB | 644.2 | 8.7% | 55.9 | 0.006 | 1.00 | 12 | \$17.29 | Installation of ENERGY STAR bottom-mount refrigerator instead of standard efficiency unit | 12.2% | 28.0% | 1.72 |
| 4048 | ENERGY STAR Freezers (Upright) | SFA | NLI | ROB | 483.2 | 9.1% | 44.0 | 0.005 | 1.00 | 12 | \$6.75 | Installation of ENERGY STAR upright freezers instead of standard efficiency unit | 20.1% | 23.0% | 3.48 |
| 4049 | ENERGY STAR Freezers (Chest) | SFA | NLI | ROB | 290.1 | 10.0% | 29.0 | 0.003 | 1.00 | 12 | \$5.23 | Installation of ENERGY STAR chest freezers instead of standard efficiency unit | 31.5% | 23.0% | 2.95 |
| 4050 | ENERGY STAR Clothes Washers (Electric Water Heating) | SFA | NLI | ROB | 504.3 | 35.2% | 177.4 | 0.710 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 42.5% | 29.0% | 1.78 |
| 4051 | ENERGY STAR Clothes Washers (Gas Water Heating) | SFA | NLI | ROB | 276.6 | 18.5% | 51.0 | 0.204 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 49.7% | 29.0% | 0.51 |
| 4052 | ENERGY STAR Dishwashers (Electric Water Heating) | SFA | ALL | ROB | 307.0 | 12.1% | 37.0 | 0.158 | 0.03 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with electric water heating | 27.3% | 45.0% | 1.71 |
| 4053 | ENERGY STAR Dishwashers (Gas Water Heating) | SFA | ALL | ROB | 135.1 | 12.1% | 16.3 | 0.070 | 0.03 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with gas water heating | 31.9% | 45.0% | 0.75 |
| 4054 | ENERGY STAR Dehumidifiers | SFA | NLI | ROB | 792.4 | 18.9% | 149.9 | 0.092 | 0.41 | 12 | \$20.21 | Installation of ENERGY STAR dehumidifier instead of standard efficiency unit | 40.3% | 83.9% | 4.60 |
| 4055 | ENERGY STAR Water Coolers | SFA | ALL | ROB | 799.4 | 60.3% | 481.8 | 0.055 | 1.00 | 10 | \$50.00 | Installation of ENERGY STAR water cooler instead of standard efficiency unit | 1.2% | 68.5% | 4.47 |
| 4056 | ENERGY STAR Air Purifier/Cleaner | SFA | ALL | ROB | 587.0 | 66.6% | 391.0 | 0.067 | 1.00 | 9 | \$70.00 | Installation of ENERGY STAR air purifier instead of standard efficiency unit | 14.0% | 33.3% | 2.55 |
| 4057 | ENERGY STAR Dryers | SFA | ALL | ROB | 538.0 | 5.1% | 27.4 | 0.115 | 0.04 | 13 | \$50.00 | Installation of ENERGY STAR dryer instead of standard efficiency unit in homes with electric dryers | 71.7% | 25.0% | 0.34 |
| 4058 | Refrigerator Recycling with Replacement | SFA | LI | Retrofit | 1,053.1 | 44.6% | 469.8 | 0.053 | 1.00 | 7 | \$120.00 | Retirement and replacement of non-primary refrigerators in homes with more than one refrigerator; replacement unit assumed to be standard efficiency model | 46.0% | 0.0% | 1.35 |
| 4059 | Refrigerator Recycling without Replacement | SFA | LI | Retrofit | 1,053.1 | 100.0% | 1,053.1 | 0.118 | 1.00 | 8 | \$120.00 | Retirement (no replacement) of non-primary refrigerators in homes with more than one refrigerator | 46.0% | 0.0% | 3.39 |
| 4060 | ENERGY STAR Refrigerators (Top-Mount) | SFA | LI | ROB | 462.2 | 8.2% | 37.9 | 0.004 | 1.00 | 12 | \$21.83 | Installation of ENERGY STAR top-mount refrigerator instead of standard efficiency unit | 46.9% | 28.0% | 0.93 |
| 4061 | ENERGY STAR Refrigerators (Side-by-Side) | SFA | LI | ROB | 608.9 | 8.6% | 52.5 | 0.006 | 1.00 | 12 | \$57.31 | Installation of ENERGY STAR side-mount refrigerator instead of standard efficiency unit | 33.7% | 28.0% | 0.49 |

Measure Assumptions - Met-Ed

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|--|-----------------|---------------|-------------------|
| 4062 | ENERGY STAR Refrigerators (Bottom-Mount) | SFA | LI | ROB | 644.2 | 8.7% | 55.9 | 0.006 | 1.00 | 12 | \$17.29 | Installation of ENERGY STAR bottom-mount refrigerator instead of standard efficiency unit | 12.2% | 28.0% | 1.72 |
| 4063 | ENERGY STAR Freezers (Upright) | SFA | LI | ROB | 483.2 | 9.1% | 44.0 | 0.005 | 1.00 | 12 | \$6.75 | Installation of ENERGY STAR upright freezers instead of standard efficiency unit | 20.1% | 23.0% | 3.48 |
| 4064 | ENERGY STAR Freezers (Chest) | SFA | LI | ROB | 290.1 | 10.0% | 29.0 | 0.003 | 1.00 | 12 | \$5.23 | Installation of ENERGY STAR chest freezers instead of standard efficiency unit | 31.5% | 23.0% | 2.95 |
| 4065 | ENERGY STAR Clothes Washers (Electric Water Heating) | SFA | LI | ROB | 504.3 | 35.2% | 177.4 | 0.710 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 42.5% | 29.0% | 1.78 |
| 4066 | ENERGY STAR Clothes Washers (Gas Water Heating) | SFA | LI | ROB | 276.6 | 18.5% | 51.0 | 0.204 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 49.7% | 29.0% | 0.51 |
| 4067 | ENERGY STAR Dehumidifiers | SFA | LI | ROB | 792.4 | 18.9% | 149.9 | 0.092 | 0.41 | 12 | \$20.21 | Installation of ENERGY STAR dehumidifier instead of standard efficiency unit | 40.3% | 83.9% | 4.60 |
| 4068 | ENERGY STAR Refrigerators (Top-Mount) | SFA | ALL | NC | 462.2 | 8.2% | 37.9 | 0.004 | 1.00 | 12 | \$21.83 | Installation of ENERGY STAR top-mount refrigerator instead of standard efficiency unit | 46.9% | 0.0% | 0.93 |
| 4069 | ENERGY STAR Refrigerators (Side-by-Side) | SFA | ALL | NC | 608.9 | 8.6% | 52.5 | 0.006 | 1.00 | 12 | \$57.31 | Installation of ENERGY STAR side-mount refrigerator instead of standard efficiency unit | 33.7% | 0.0% | 0.49 |
| 4070 | ENERGY STAR Refrigerators (Bottom-Mount) | SFA | ALL | NC | 644.2 | 8.7% | 55.9 | 0.006 | 1.00 | 12 | \$17.29 | Installation of ENERGY STAR bottom-mount refrigerator instead of standard efficiency unit | 12.2% | 0.0% | 1.72 |
| 4071 | ENERGY STAR Freezers (Upright) | SFA | ALL | NC | 483.2 | 9.1% | 44.0 | 0.005 | 1.00 | 12 | \$6.75 | Installation of ENERGY STAR upright freezers instead of standard efficiency unit | 20.1% | 0.0% | 3.48 |
| 4072 | ENERGY STAR Freezers (Chest) | SFA | ALL | NC | 290.1 | 10.0% | 29.0 | 0.003 | 1.00 | 12 | \$5.23 | Installation of ENERGY STAR chest freezers instead of standard efficiency unit | 31.5% | 0.0% | 2.95 |
| 4073 | ENERGY STAR Clothes Washers (Electric Water Heating) | SFA | ALL | NC | 504.3 | 35.2% | 177.4 | 0.710 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 42.5% | 0.0% | 1.78 |
| 4074 | ENERGY STAR Clothes Washers (Gas Water Heating) | SFA | ALL | NC | 276.6 | 18.5% | 51.0 | 0.204 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 49.7% | 0.0% | 0.51 |
| 4075 | ENERGY STAR Dishwashers (Electric Water Heating) | SFA | ALL | NC | 307.0 | 12.1% | 37.0 | 0.158 | 0.03 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with electric water heating | 27.3% | 0.0% | 1.71 |
| 4076 | ENERGY STAR Dishwashers (Gas Water Heating) | SFA | ALL | NC | 135.1 | 12.1% | 16.3 | 0.070 | 0.03 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with gas water heating | 31.9% | 0.0% | 0.75 |
| 4077 | ENERGY STAR Dehumidifiers | SFA | ALL | NC | 792.4 | 18.9% | 149.9 | 0.092 | 0.41 | 12 | \$20.21 | Installation of ENERGY STAR dehumidifier instead of standard efficiency unit | 40.3% | 0.0% | 4.60 |
| 4078 | ENERGY STAR Water Coolers | SFA | ALL | NC | 799.4 | 60.3% | 481.8 | 0.055 | 1.00 | 10 | \$50.00 | Installation of ENERGY STAR water cooler instead of standard efficiency unit | 1.2% | 0.0% | 4.47 |
| 4079 | ENERGY STAR Air Purifier/Cleaner | SFA | ALL | NC | 587.0 | 66.6% | 391.0 | 0.067 | 1.00 | 9 | \$70.00 | Installation of ENERGY STAR air purifier instead of standard efficiency unit | 14.0% | 0.0% | 2.55 |
| 4080 | ENERGY STAR Dryers | SFA | ALL | NC | 538.0 | 5.1% | 27.4 | 0.115 | 0.04 | 13 | \$50.00 | Installation of ENERGY STAR dryer instead of standard efficiency unit in homes with electric dryers | 71.7% | 0.0% | 0.34 |
| 4081 | Refrigerator Recycling with Replacement | MF | NLI | Retrofit | 1,053.1 | 44.6% | 469.8 | 0.053 | 1.00 | 7 | \$120.00 | Retirement and replacement of non-primary refrigerators in homes with more than one refrigerator; replacement unit assumed to be standard efficiency model | 46.0% | 0.0% | 1.35 |
| 4082 | Refrigerator Recycling without Replacement | MF | NLI | Retrofit | 1,053.1 | 100.0% | 1,053.1 | 0.118 | 1.00 | 8 | \$120.00 | Retirement (no replacement) of non-primary refrigerators in homes with more than one refrigerator | 46.0% | 0.0% | 3.39 |
| 4083 | Freezer Recycling with Replacement | MF | ALL | Retrofit | 1,078.4 | 51.9% | 559.4 | 0.063 | 1.00 | 7 | \$120.00 | Retirement and replacement of non-primary freezers in homes with more than one freezer; replacement unit assumed to be standard efficiency model | 3.0% | 0.0% | 1.61 |
| 4084 | Freezer Recycling without Replacement | MF | ALL | Retrofit | 1,078.4 | 100.0% | 1,078.4 | 0.121 | 1.00 | 8 | \$120.00 | Retirement (no replacement) of non-primary refrigerators in homes with more than one refrigerator | 3.0% | 0.0% | 3.47 |
| 4085 | ENERGY STAR Refrigerators (Top-Mount) | MF | NLI | ROB | 462.2 | 8.2% | 37.9 | 0.004 | 1.00 | 12 | \$21.83 | Installation of ENERGY STAR top-mount refrigerator instead of standard efficiency unit | 46.9% | 28.0% | 0.93 |
| 4086 | ENERGY STAR Refrigerators (Side-by-Side) | MF | NLI | ROB | 608.9 | 8.6% | 52.5 | 0.006 | 1.00 | 12 | \$57.31 | Installation of ENERGY STAR side-mount refrigerator instead of standard efficiency unit | 33.7% | 28.0% | 0.49 |
| 4087 | ENERGY STAR Refrigerators (Bottom-Mount) | MF | NLI | ROB | 644.2 | 8.7% | 55.9 | 0.006 | 1.00 | 12 | \$17.29 | Installation of ENERGY STAR bottom-mount refrigerator instead of standard efficiency unit | 12.2% | 28.0% | 1.72 |
| 4088 | ENERGY STAR Freezers (Upright) | MF | NLI | ROB | 483.2 | 9.1% | 44.0 | 0.005 | 1.00 | 12 | \$6.75 | Installation of ENERGY STAR upright freezers instead of standard efficiency unit | 20.1% | 23.0% | 3.48 |
| 4089 | ENERGY STAR Freezers (Chest) | MF | NLI | ROB | 290.1 | 10.0% | 29.0 | 0.003 | 1.00 | 12 | \$5.23 | Installation of ENERGY STAR chest freezers instead of standard efficiency unit | 31.5% | 23.0% | 2.95 |
| 4090 | ENERGY STAR Clothes Washers (Electric Water Heating) | MF | NLI | ROB | 504.3 | 35.2% | 177.4 | 0.710 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 42.5% | 29.0% | 1.78 |
| 4091 | ENERGY STAR Clothes Washers (Gas Water Heating) | MF | NLI | ROB | 276.6 | 18.5% | 51.0 | 0.204 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 49.7% | 29.0% | 0.51 |
| 4092 | ENERGY STAR Dishwashers (Electric Water Heating) | MF | ALL | ROB | 307.0 | 12.1% | 37.0 | 0.158 | 0.03 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with electric water heating | 27.3% | 45.0% | 1.71 |

Measure Assumptions - Met-Ed

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|--|-----------------|---------------|-------------------|
| 4093 | ENERGY STAR Dishwashers (Gas Water Heating) | MF | ALL | ROB | 135.1 | 12.1% | 16.3 | 0.070 | 0.03 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with gas water heating | 31.9% | 45.0% | 0.75 |
| 4094 | ENERGY STAR Dehumidifiers | MF | NLI | ROB | 792.4 | 18.9% | 149.9 | 0.092 | 0.41 | 12 | \$20.21 | Installation of ENERGY STAR dehumidifier instead of standard efficiency unit | 40.3% | 83.9% | 4.60 |
| 4095 | ENERGY STAR Water Coolers | MF | ALL | ROB | 799.4 | 60.3% | 481.8 | 0.055 | 1.00 | 10 | \$50.00 | Installation of ENERGY STAR water cooler instead of standard efficiency unit | 1.2% | 68.5% | 4.47 |
| 4096 | ENERGY STAR Air Purifier/Cleaner | MF | ALL | ROB | 587.0 | 66.6% | 391.0 | 0.067 | 1.00 | 9 | \$70.00 | Installation of ENERGY STAR air purifier instead of standard efficiency unit | 14.0% | 33.3% | 2.55 |
| 4097 | ENERGY STAR Dryers | MF | ALL | ROB | 538.0 | 5.1% | 27.4 | 0.115 | 0.04 | 13 | \$50.00 | Installation of ENERGY STAR dryer instead of standard efficiency unit in homes with electric dryers | 71.7% | 25.0% | 0.34 |
| 4098 | Refrigerator Recycling with Replacement | MF | LI | Retrofit | 1,053.1 | 44.6% | 469.8 | 0.053 | 1.00 | 7 | \$120.00 | Retirement and replacement of non-primary refrigerators in homes with more than one refrigerator; replacement unit assumed to be standard efficiency model | 46.0% | 0.0% | 1.35 |
| 4099 | Refrigerator Recycling without Replacement | MF | LI | Retrofit | 1,053.1 | 100.0% | 1,053.1 | 0.118 | 1.00 | 8 | \$120.00 | Retirement (no replacement) of non-primary refrigerators in homes with more than one refrigerator | 46.0% | 0.0% | 3.39 |
| 4100 | ENERGY STAR Refrigerators (Top-Mount) | MF | LI | ROB | 462.2 | 8.2% | 37.9 | 0.004 | 1.00 | 12 | \$21.83 | Installation of ENERGY STAR top-mount refrigerator instead of standard efficiency unit | 46.9% | 28.0% | 0.93 |
| 4101 | ENERGY STAR Refrigerators (Side-by-Side) | MF | LI | ROB | 608.9 | 8.6% | 52.5 | 0.006 | 1.00 | 12 | \$57.31 | Installation of ENERGY STAR side-mount refrigerator instead of standard efficiency unit | 33.7% | 28.0% | 0.49 |
| 4102 | ENERGY STAR Refrigerators (Bottom-Mount) | MF | LI | ROB | 644.2 | 8.7% | 55.9 | 0.006 | 1.00 | 12 | \$17.29 | Installation of ENERGY STAR bottom-mount refrigerator instead of standard efficiency unit | 12.2% | 28.0% | 1.72 |
| 4103 | ENERGY STAR Freezers (Upright) | MF | LI | ROB | 483.2 | 9.1% | 44.0 | 0.005 | 1.00 | 12 | \$6.75 | Installation of ENERGY STAR upright freezers instead of standard efficiency unit | 20.1% | 23.0% | 3.48 |
| 4104 | ENERGY STAR Freezers (Chest) | MF | LI | ROB | 290.1 | 10.0% | 29.0 | 0.003 | 1.00 | 12 | \$5.23 | Installation of ENERGY STAR chest freezers instead of standard efficiency unit | 31.5% | 23.0% | 2.95 |
| 4105 | ENERGY STAR Clothes Washers (Electric Water Heating) | MF | LI | ROB | 504.3 | 35.2% | 177.4 | 0.710 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 42.5% | 29.0% | 1.78 |
| 4106 | ENERGY STAR Clothes Washers (Gas Water Heating) | MF | LI | ROB | 276.6 | 18.5% | 51.0 | 0.204 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 49.7% | 29.0% | 0.51 |
| 4107 | ENERGY STAR Dehumidifiers | MF | LI | ROB | 792.4 | 18.9% | 149.9 | 0.092 | 0.41 | 12 | \$20.21 | Installation of ENERGY STAR dehumidifier instead of standard efficiency unit | 40.3% | 83.9% | 4.60 |
| 4108 | ENERGY STAR Refrigerators (Top-Mount) | MF | ALL | NC | 462.2 | 8.2% | 37.9 | 0.004 | 1.00 | 12 | \$21.83 | Installation of ENERGY STAR top-mount refrigerator instead of standard efficiency unit | 46.9% | 0.0% | 0.93 |
| 4109 | ENERGY STAR Refrigerators (Side-by-Side) | MF | ALL | NC | 608.9 | 8.6% | 52.5 | 0.006 | 1.00 | 12 | \$57.31 | Installation of ENERGY STAR side-mount refrigerator instead of standard efficiency unit | 33.7% | 0.0% | 0.49 |
| 4110 | ENERGY STAR Refrigerators (Bottom-Mount) | MF | ALL | NC | 644.2 | 8.7% | 55.9 | 0.006 | 1.00 | 12 | \$17.29 | Installation of ENERGY STAR bottom-mount refrigerator instead of standard efficiency unit | 12.2% | 0.0% | 1.72 |
| 4111 | ENERGY STAR Freezers (Upright) | MF | ALL | NC | 483.2 | 9.1% | 44.0 | 0.005 | 1.00 | 12 | \$6.75 | Installation of ENERGY STAR upright freezers instead of standard efficiency unit | 20.1% | 0.0% | 3.48 |
| 4112 | ENERGY STAR Freezers (Chest) | MF | ALL | NC | 290.1 | 10.0% | 29.0 | 0.003 | 1.00 | 12 | \$5.23 | Installation of ENERGY STAR chest freezers instead of standard efficiency unit | 31.5% | 0.0% | 2.95 |
| 4113 | ENERGY STAR Clothes Washers (Electric Water Heating) | MF | ALL | NC | 504.3 | 35.2% | 177.4 | 0.710 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 42.5% | 0.0% | 1.78 |
| 4114 | ENERGY STAR Clothes Washers (Gas Water Heating) | MF | ALL | NC | 276.6 | 18.5% | 51.0 | 0.204 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 49.7% | 0.0% | 0.51 |
| 4115 | ENERGY STAR Dishwashers (Electric Water Heating) | MF | ALL | NC | 307.0 | 12.1% | 37.0 | 0.158 | 0.03 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with electric water heating | 27.3% | 0.0% | 1.71 |
| 4116 | ENERGY STAR Dishwashers (Gas Water Heating) | MF | ALL | NC | 135.1 | 12.1% | 16.3 | 0.070 | 0.03 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with gas water heating | 31.9% | 0.0% | 0.75 |
| 4117 | ENERGY STAR Dehumidifiers | MF | ALL | NC | 792.4 | 18.9% | 149.9 | 0.092 | 0.41 | 12 | \$20.21 | Installation of ENERGY STAR dehumidifier instead of standard efficiency unit | 40.3% | 0.0% | 4.60 |
| 4118 | ENERGY STAR Water Coolers | MF | ALL | NC | 799.4 | 60.3% | 481.8 | 0.055 | 1.00 | 10 | \$50.00 | Installation of ENERGY STAR water cooler instead of standard efficiency unit | 1.2% | 0.0% | 4.47 |
| 4119 | ENERGY STAR Air Purifier/Cleaner | MF | ALL | NC | 587.0 | 66.6% | 391.0 | 0.067 | 1.00 | 9 | \$70.00 | Installation of ENERGY STAR air purifier instead of standard efficiency unit | 14.0% | 0.0% | 2.55 |
| 4120 | ENERGY STAR Dryers | MF | ALL | NC | 538.0 | 5.1% | 27.4 | 0.115 | 0.04 | 13 | \$50.00 | Installation of ENERGY STAR dryer instead of standard efficiency unit in homes with electric dryers | 71.7% | 0.0% | 0.34 |
| 5000 | Consumer Electronics | | | | | | | | | | | | | | |
| 5001 | Smart Strip Plug Outlets - Home Office | SFD | NLI | Retrofit | 48.9 | 100.0% | 48.9 | 0.007 | 0.83 | 10 | \$32.97 | Smart strip plug outlet for home office centers | 100.8% | 13.7% | 0.69 |
| 5002 | Smart Strip Plug Outlets - Entertainment Center | SFD | NLI | Retrofit | 62.1 | 100.0% | 62.1 | 0.009 | 0.90 | 10 | \$32.97 | Smart strip plug outlet for home entertainment centers | 160.3% | 7.1% | 0.88 |
| 5003 | ENERGY STAR Televisions > 50" | SFD | ALL | ROB | 197.1 | 49.3% | 97.1 | 0.053 | 0.17 | 6 | \$1.00 | Installation of high efficiency > 50" diameter television instead of a standard efficiency unit | 63.4% | 86.0% | 28.78 |
| 5004 | ENERGY STAR Televisions < 50" | SFD | ALL | ROB | 96.2 | 49.2% | 47.4 | 0.026 | 0.17 | 6 | \$1.00 | Installation of high efficiency < 50" diameter television instead of a standard efficiency unit | 147.9% | 86.0% | 14.05 |
| 5005 | ENERGY STAR Computer - Desktop | SFD | ALL | ROB | 165.6 | 42.7% | 70.7 | 0.022 | 0.76 | 4 | \$8.00 | Installation of high efficiency desktop computer instead of a standard efficiency unit | 59.0% | 27.5% | 2.15 |

Measure Assumptions - Met-Ed

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|---|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|---|-----------------|---------------|-------------------|
| 5006 | ENERGY STAR Computer - Laptop | SFD | ALL | ROB | 52.8 | 40.8% | 21.5 | 0.007 | 0.76 | 4 | \$1.00 | Installation of high efficiency laptop computer instead of a standard efficiency unit | 121.0% | 75.5% | 5.25 |
| 5007 | ENERGY STAR Fax Machine | SFD | ALL | ROB | 52.1 | 30.0% | 15.6 | 0.002 | 1.00 | 4 | \$1.00 | Installation of high efficiency fax machine instead of a standard efficiency unit | 3.0% | 6.5% | 3.41 |
| 5008 | ENERGY STAR Copier | SFD | ALL | ROB | 182.5 | 25.7% | 46.9 | 0.022 | 0.28 | 6 | \$1.00 | Installation of high efficiency copier instead of a standard efficiency unit | 4.2% | 77.8% | 14.62 |
| 5009 | ENERGY STAR Printer | SFD | ALL | ROB | 43.8 | 55.0% | 24.1 | 0.006 | 0.59 | 5 | \$1.00 | Installation of high efficiency printer instead of a standard efficiency unit | 29.4% | 95.0% | 6.40 |
| 5010 | ENERGY STAR Multifunction | SFD | ALL | ROB | 70.1 | 66.3% | 46.4 | 0.011 | 0.59 | 6 | \$1.00 | Installation of high efficiency multifunction device instead of a standard efficiency unit | 53.2% | 95.0% | 14.47 |
| 5011 | ENERGY STAR Monitors | SFD | ALL | ROB | 73.6 | 32.4% | 23.8 | 0.013 | 0.26 | 4 | \$1.80 | Installation of high efficiency monitors instead of a standard efficiency unit | 59.0% | 73.3% | 2.88 |
| 5012 | Smart Strip Plug Outlets - Home Office | SFD | LI | Retrofit | 48.9 | 100.0% | 48.9 | 0.007 | 0.83 | 10 | \$32.97 | Smart strip plug outlet for home office centers | 100.8% | 13.7% | 0.69 |
| 5013 | Smart Strip Plug Outlets - Entertainment Center | SFD | LI | Retrofit | 62.1 | 100.0% | 62.1 | 0.009 | 0.90 | 10 | \$32.97 | Smart strip plug outlet for home entertainment centers | 160.3% | 7.1% | 0.88 |
| 5014 | Smart Strip Plug Outlets - Home Office | SFD | ALL | NC | 48.9 | 100.0% | 48.9 | 0.007 | 0.83 | 10 | \$32.97 | Smart strip plug outlet for home office centers | 100.8% | 0.0% | 0.69 |
| 5015 | Smart Strip Plug Outlets - Entertainment Center | SFD | ALL | NC | 62.1 | 100.0% | 62.1 | 0.009 | 0.90 | 10 | \$32.97 | Smart strip plug outlet for home entertainment centers | 160.3% | 0.0% | 0.88 |
| 5016 | ENERGY STAR Televisions > 50" | SFD | ALL | NC | 197.1 | 49.3% | 97.1 | 0.053 | 0.17 | 6 | \$1.00 | Installation of high efficiency > 50" diameter television instead of a standard efficiency unit | 63.4% | 0.0% | 28.78 |
| 5017 | ENERGY STAR Televisions < 50" | SFD | ALL | NC | 96.2 | 49.2% | 47.4 | 0.026 | 0.17 | 6 | \$1.00 | Installation of high efficiency < 50" diameter television instead of a standard efficiency unit | 147.9% | 0.0% | 14.05 |
| 5018 | ENERGY STAR Computer - Desktop | SFD | ALL | NC | 165.6 | 42.7% | 70.7 | 0.022 | 0.76 | 4 | \$8.00 | Installation of high efficiency desktop computer instead of a standard efficiency unit | 59.0% | 0.0% | 2.15 |
| 5019 | ENERGY STAR Computer - Laptop | SFD | ALL | NC | 52.8 | 40.8% | 21.5 | 0.007 | 0.76 | 4 | \$1.00 | Installation of high efficiency laptop computer instead of a standard efficiency unit | 121.0% | 0.0% | 5.25 |
| 5020 | ENERGY STAR Fax Machine | SFD | ALL | NC | 52.1 | 30.0% | 15.6 | 0.002 | 1.00 | 4 | \$1.00 | Installation of high efficiency fax machine instead of a standard efficiency unit | 3.0% | 0.0% | 3.41 |
| 5021 | ENERGY STAR Copier | SFD | ALL | NC | 182.5 | 25.7% | 46.9 | 0.022 | 0.28 | 6 | \$1.00 | Installation of high efficiency copier instead of a standard efficiency unit | 4.2% | 0.0% | 14.62 |
| 5022 | ENERGY STAR Printer | SFD | ALL | NC | 43.8 | 55.0% | 24.1 | 0.006 | 0.59 | 5 | \$1.00 | Installation of high efficiency printer instead of a standard efficiency unit | 29.4% | 0.0% | 6.40 |
| 5023 | ENERGY STAR Multifunction | SFD | ALL | NC | 70.1 | 66.3% | 46.4 | 0.011 | 0.59 | 6 | \$1.00 | Installation of high efficiency multifunction device instead of a standard efficiency unit | 53.2% | 0.0% | 14.47 |
| 5024 | ENERGY STAR Monitors | SFD | ALL | NC | 73.6 | 32.4% | 23.8 | 0.013 | 0.26 | 4 | \$1.80 | Installation of high efficiency monitors instead of a standard efficiency unit | 59.0% | 0.0% | 2.88 |
| 5025 | Smart Strip Plug Outlets - Home Office | SFA | NLI | Retrofit | 48.9 | 100.0% | 48.9 | 0.007 | 0.83 | 10 | \$32.97 | Smart strip plug outlet for home office centers | 100.8% | 13.7% | 0.69 |
| 5026 | Smart Strip Plug Outlets - Entertainment Center | SFA | NLI | Retrofit | 62.1 | 100.0% | 62.1 | 0.009 | 0.90 | 10 | \$32.97 | Smart strip plug outlet for home entertainment centers | 141.4% | 7.1% | 0.88 |
| 5027 | ENERGY STAR Televisions > 50" | SFA | ALL | ROB | 197.1 | 49.1% | 96.9 | 0.053 | 0.17 | 6 | \$1.00 | Installation of high efficiency > 50" diameter television instead of a standard efficiency unit | 55.9% | 86.0% | 28.71 |
| 5028 | ENERGY STAR Televisions < 50" | SFA | ALL | ROB | 98.1 | 49.3% | 48.4 | 0.027 | 0.17 | 6 | \$1.00 | Installation of high efficiency < 50" diameter television instead of a standard efficiency unit | 130.5% | 86.0% | 14.34 |
| 5029 | ENERGY STAR Computer - Desktop | SFA | ALL | ROB | 165.6 | 42.7% | 70.7 | 0.022 | 0.76 | 4 | \$8.00 | Installation of high efficiency desktop computer instead of a standard efficiency unit | 59.0% | 27.5% | 2.15 |
| 5030 | ENERGY STAR Computer - Laptop | SFA | ALL | ROB | 52.8 | 40.8% | 21.5 | 0.007 | 0.76 | 4 | \$1.00 | Installation of high efficiency laptop computer instead of a standard efficiency unit | 121.0% | 75.5% | 5.25 |
| 5031 | ENERGY STAR Fax Machine | SFA | ALL | ROB | 52.1 | 30.0% | 15.6 | 0.002 | 1.00 | 4 | \$1.00 | Installation of high efficiency fax machine instead of a standard efficiency unit | 3.0% | 6.5% | 3.41 |
| 5032 | ENERGY STAR Copier | SFA | ALL | ROB | 182.5 | 25.7% | 46.9 | 0.022 | 0.28 | 6 | \$1.00 | Installation of high efficiency copier instead of a standard efficiency unit | 1.7% | 77.8% | 14.62 |
| 5033 | ENERGY STAR Printer | SFA | ALL | ROB | 43.8 | 55.0% | 24.1 | 0.006 | 0.59 | 5 | \$1.00 | Installation of high efficiency printer instead of a standard efficiency unit | 29.0% | 95.0% | 6.40 |
| 5034 | ENERGY STAR Multifunction | SFA | ALL | ROB | 70.1 | 66.3% | 46.4 | 0.011 | 0.59 | 6 | \$1.00 | Installation of high efficiency multifunction device instead of a standard efficiency unit | 45.0% | 95.0% | 14.47 |
| 5035 | ENERGY STAR Monitors | SFA | ALL | ROB | 73.6 | 32.4% | 23.8 | 0.013 | 0.26 | 4 | \$1.80 | Installation of high efficiency monitors instead of a standard efficiency unit | 59.0% | 73.3% | 2.88 |
| 5036 | Smart Strip Plug Outlets - Home Office | SFA | LI | Retrofit | 48.9 | 100.0% | 48.9 | 0.007 | 0.83 | 10 | \$32.97 | Smart strip plug outlet for home office centers | 100.8% | 13.7% | 0.69 |
| 5037 | Smart Strip Plug Outlets - Entertainment Center | SFA | LI | Retrofit | 62.1 | 100.0% | 62.1 | 0.009 | 0.90 | 10 | \$32.97 | Smart strip plug outlet for home entertainment centers | 141.4% | 7.1% | 0.88 |
| 5038 | Smart Strip Plug Outlets - Home Office | SFA | ALL | NC | 48.9 | 100.0% | 48.9 | 0.007 | 0.83 | 10 | \$32.97 | Smart strip plug outlet for home office centers | 100.8% | 0.0% | 0.69 |
| 5039 | Smart Strip Plug Outlets - Entertainment Center | SFA | ALL | NC | 62.1 | 100.0% | 62.1 | 0.009 | 0.90 | 10 | \$32.97 | Smart strip plug outlet for home entertainment centers | 141.4% | 0.0% | 0.88 |
| 5040 | ENERGY STAR Televisions > 50" | SFA | ALL | NC | 197.1 | 49.1% | 96.9 | 0.053 | 0.17 | 6 | \$1.00 | Installation of high efficiency > 50" diameter television instead of a standard efficiency unit | 55.9% | 0.0% | 28.71 |
| 5041 | ENERGY STAR Televisions < 50" | SFA | ALL | NC | 98.1 | 49.3% | 48.4 | 0.027 | 0.17 | 6 | \$1.00 | Installation of high efficiency < 50" diameter television instead of a standard efficiency unit | 130.5% | 0.0% | 14.34 |
| 5042 | ENERGY STAR Computer - Desktop | SFA | ALL | NC | 165.6 | 42.7% | 70.7 | 0.022 | 0.76 | 4 | \$8.00 | Installation of high efficiency desktop computer instead of a standard efficiency unit | 59.0% | 0.0% | 2.15 |
| 5043 | ENERGY STAR Computer - Laptop | SFA | ALL | NC | 52.8 | 40.8% | 21.5 | 0.007 | 0.76 | 4 | \$1.00 | Installation of high efficiency laptop computer instead of a standard efficiency unit | 121.0% | 0.0% | 5.25 |
| 5044 | ENERGY STAR Fax Machine | SFA | ALL | NC | 52.1 | 30.0% | 15.6 | 0.002 | 1.00 | 4 | \$1.00 | Installation of high efficiency fax machine instead of a standard efficiency unit | 3.0% | 0.0% | 3.41 |
| 5045 | ENERGY STAR Copier | SFA | ALL | NC | 182.5 | 25.7% | 46.9 | 0.022 | 0.28 | 6 | \$1.00 | Installation of high efficiency copier instead of a standard efficiency unit | 1.7% | 0.0% | 14.62 |

Measure Assumptions - Met-Ed

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|---|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|--|-----------------|---------------|-------------------|
| 5046 | ENERGY STAR Printer | SFA | ALL | NC | 43.8 | 55.0% | 24.1 | 0.006 | 0.59 | 5 | \$1.00 | Installation of high efficiency printer instead of a standard efficiency unit | 29.0% | 0.0% | 6.40 |
| 5047 | ENERGY STAR Multifunction | SFA | ALL | NC | 70.1 | 66.3% | 46.4 | 0.011 | 0.59 | 6 | \$1.00 | Installation of high efficiency multifunction device instead of a standard efficiency unit | 45.0% | 0.0% | 14.47 |
| 5048 | ENERGY STAR Monitors | SFA | ALL | NC | 73.6 | 32.4% | 23.8 | 0.013 | 0.26 | 4 | \$1.80 | Installation of high efficiency monitors instead of a standard efficiency unit | 59.0% | 0.0% | 2.88 |
| 5049 | Smart Strip Plug Outlets - Home Office | MF | NLI | Retrofit | 48.9 | 100.0% | 48.9 | 0.007 | 0.83 | 10 | \$32.97 | Smart strip plug outlet for home office centers | 100.8% | 13.7% | 0.69 |
| 5050 | Smart Strip Plug Outlets - Entertainment Center | MF | NLI | Retrofit | 62.1 | 100.0% | 62.1 | 0.009 | 0.90 | 10 | \$32.97 | Smart strip plug outlet for home entertainment centers | 105.8% | 7.1% | 0.88 |
| 5051 | ENERGY STAR Televisions > 50" | MF | ALL | ROB | 197.1 | 50.0% | 98.6 | 0.054 | 0.17 | 6 | \$1.00 | Installation of high efficiency > 50" diameter television instead of a standard efficiency unit | 41.9% | 86.0% | 29.21 |
| 5052 | ENERGY STAR Televisions < 50" | MF | ALL | ROB | 89.1 | 48.7% | 43.4 | 0.024 | 0.17 | 6 | \$1.00 | Installation of high efficiency < 50" diameter television instead of a standard efficiency unit | 97.7% | 86.0% | 12.86 |
| 5053 | ENERGY STAR Computer - Desktop | MF | ALL | ROB | 165.6 | 42.7% | 70.7 | 0.022 | 0.76 | 4 | \$8.00 | Installation of high efficiency desktop computer instead of a standard efficiency unit | 59.0% | 27.5% | 2.15 |
| 5054 | ENERGY STAR Computer - Laptop | MF | ALL | ROB | 52.8 | 40.8% | 21.5 | 0.007 | 0.76 | 4 | \$1.00 | Installation of high efficiency laptop computer instead of a standard efficiency unit | 121.0% | 75.5% | 5.25 |
| 5055 | ENERGY STAR Fax Machine | MF | ALL | ROB | 52.1 | 30.0% | 15.6 | 0.002 | 1.00 | 4 | \$1.00 | Installation of high efficiency fax machine instead of a standard efficiency unit | 3.0% | 6.5% | 3.41 |
| 5056 | ENERGY STAR Copier | MF | ALL | ROB | 182.5 | 25.7% | 46.9 | 0.022 | 0.28 | 6 | \$1.00 | Installation of high efficiency copier instead of a standard efficiency unit | 1.1% | 77.8% | 14.62 |
| 5057 | ENERGY STAR Printer | MF | ALL | ROB | 43.8 | 55.0% | 24.1 | 0.006 | 0.59 | 5 | \$1.00 | Installation of high efficiency printer instead of a standard efficiency unit | 12.6% | 95.0% | 6.40 |
| 5058 | ENERGY STAR Multifunction | MF | ALL | ROB | 70.1 | 66.3% | 46.4 | 0.011 | 0.59 | 6 | \$1.00 | Installation of high efficiency multifunction device instead of a standard efficiency unit | 30.3% | 95.0% | 14.47 |
| 5059 | ENERGY STAR Monitors | MF | ALL | ROB | 73.6 | 32.4% | 23.8 | 0.013 | 0.26 | 4 | \$1.80 | Installation of high efficiency monitors instead of a standard efficiency unit | 59.0% | 73.3% | 2.88 |
| 5060 | Smart Strip Plug Outlets - Home Office | MF | LI | Retrofit | 48.9 | 100.0% | 48.9 | 0.007 | 0.83 | 10 | \$32.97 | Smart strip plug outlet for home office centers | 100.8% | 13.7% | 0.69 |
| 5061 | Smart Strip Plug Outlets - Entertainment Center | MF | LI | Retrofit | 62.1 | 100.0% | 62.1 | 0.009 | 0.90 | 10 | \$32.97 | Smart strip plug outlet for home entertainment centers | 105.8% | 7.1% | 0.88 |
| 5062 | Smart Strip Plug Outlets - Home Office | MF | ALL | NC | 48.9 | 100.0% | 48.9 | 0.007 | 0.83 | 10 | \$32.97 | Smart strip plug outlet for home office centers | 100.8% | 0.0% | 0.69 |
| 5063 | Smart Strip Plug Outlets - Entertainment Center | MF | ALL | NC | 62.1 | 100.0% | 62.1 | 0.009 | 0.90 | 10 | \$32.97 | Smart strip plug outlet for home entertainment centers | 105.8% | 0.0% | 0.88 |
| 5064 | ENERGY STAR Televisions > 50" | MF | ALL | NC | 197.1 | 50.0% | 98.6 | 0.054 | 0.17 | 6 | \$1.00 | Installation of high efficiency > 50" diameter television instead of a standard efficiency unit | 41.9% | 0.0% | 29.21 |
| 5065 | ENERGY STAR Televisions < 50" | MF | ALL | NC | 89.1 | 48.7% | 43.4 | 0.024 | 0.17 | 6 | \$1.00 | Installation of high efficiency < 50" diameter television instead of a standard efficiency unit | 97.7% | 0.0% | 12.86 |
| 5066 | ENERGY STAR Computer - Desktop | MF | ALL | NC | 165.6 | 42.7% | 70.7 | 0.022 | 0.76 | 4 | \$8.00 | Installation of high efficiency desktop computer instead of a standard efficiency unit | 59.0% | 0.0% | 2.15 |
| 5067 | ENERGY STAR Computer - Laptop | MF | ALL | NC | 52.8 | 40.8% | 21.5 | 0.007 | 0.76 | 4 | \$1.00 | Installation of high efficiency laptop computer instead of a standard efficiency unit | 121.0% | 0.0% | 5.25 |
| 5068 | ENERGY STAR Fax Machine | MF | ALL | NC | 52.1 | 30.0% | 15.6 | 0.002 | 1.00 | 4 | \$1.00 | Installation of high efficiency fax machine instead of a standard efficiency unit | 3.0% | 0.0% | 3.41 |
| 5069 | ENERGY STAR Copier | MF | ALL | NC | 182.5 | 25.7% | 46.9 | 0.022 | 0.28 | 6 | \$1.00 | Installation of high efficiency copier instead of a standard efficiency unit | 1.1% | 0.0% | 14.62 |
| 5070 | ENERGY STAR Printer | MF | ALL | NC | 43.8 | 55.0% | 24.1 | 0.006 | 0.59 | 5 | \$1.00 | Installation of high efficiency printer instead of a standard efficiency unit | 12.6% | 0.0% | 6.40 |
| 5071 | ENERGY STAR Multifunction | MF | ALL | NC | 70.1 | 66.3% | 46.4 | 0.011 | 0.59 | 6 | \$1.00 | Installation of high efficiency multifunction device instead of a standard efficiency unit | 30.3% | 0.0% | 14.47 |
| 5072 | ENERGY STAR Monitors | MF | ALL | NC | 73.6 | 32.4% | 23.8 | 0.013 | 0.26 | 4 | \$1.80 | Installation of high efficiency monitors instead of a standard efficiency unit | 59.0% | 0.0% | 2.88 |
| 6000 | Building Shell | | | | | | | | | | | | | | |
| 6001 | Ceiling Insulation: R-20 to R-60 | SFD | NLI | Retrofit | 6,220.0 | 6.0% | 374.4 | 0.095 | 0.65 | 25 | \$2,724.04 | Addition of R-20 ceiling insulation in adequately insulated homes with heat pumps | 6.5% | 75.8% | 0.09 |
| 6002 | Ceiling Insulation: R-8 to R-38 | SFD | NLI | Retrofit | 6,941.8 | 14.2% | 987.0 | 0.249 | 0.65 | 25 | \$1,879.96 | Addition of R-8 ceiling insulation in poorly insulated homes with heat pumps | 6.5% | 89.0% | 0.36 |
| 6003 | Exterior Wall Insulation: R-0 to R-13 | SFD | NLI | Retrofit | 11,314.2 | 45.8% | 5,181.1 | 0.830 | 0.65 | 25 | \$3,069.52 | Addition of exterior wall insulation in poorly homes with heat pumps | 6.5% | 88.0% | 1.07 |
| 6004 | Exterior Wall Insulation: R-0 to R-19 | SFD | NLI | Retrofit | 11,314.2 | 51.3% | 5,806.8 | 1.005 | 0.65 | 25 | \$3,899.12 | Addition of exterior wall insulation in poorly homes with heat pumps | 6.5% | 88.0% | 0.95 |
| 6005 | Floor Insulation: R-0 to R-19 | SFD | NLI | Retrofit | 7,242.0 | 1.8% | 134.0 | -0.189 | 0.65 | 25 | \$2,036.85 | Addition of floor insulation in homes with unconditioned basements or crawl spaces and heat pumps | 0.5% | 67.0% | -0.01 |
| 6006 | Basement Wall Insulation: R-0 to R-13 | SFD | NLI | Retrofit | 5,768.7 | 7.6% | 437.3 | -0.015 | 0.65 | 25 | \$2,764.80 | Addition of basement wall insulation in homes with poorly insulated conditioned basements and heat pumps | 0.2% | 67.0% | 0.09 |
| 6007 | Air Sealing: 13 ACH50 to 9 ACH50 | SFD | NLI | Retrofit | 7,309.3 | 14.9% | 1,089.3 | 0.048 | 0.65 | 15 | \$968.00 | Air sealing in poorly sealed homes with heat pumps | 6.5% | 77.0% | 0.65 |
| 6008 | Air Sealing: 9 ACH50 to 7 ACH50 | SFD | NLI | Retrofit | 6,220.0 | 8.1% | 504.2 | 0.020 | 0.65 | 15 | \$968.00 | Air sealing in adequately sealed homes with heat pumps | 6.5% | 61.0% | 0.30 |
| 6009 | Duct Sealing: 38.5% to 25% (CFM @25Pa) | SFD | NLI | Retrofit | 6,407.4 | 2.9% | 187.4 | 0.036 | 0.65 | 20 | \$744.00 | Duct sealing in homes with poorly sealed ducts and heat pumps | 6.5% | 65.0% | 0.16 |
| 6010 | Duct Sealing: 25% to 16.25% (CFM @25Pa) | SFD | NLI | Retrofit | 6,220.0 | 2.0% | 121.4 | 0.021 | 0.65 | 20 | \$744.00 | Duct sealing in homes with adequately sealed ducts and heat pumps | 6.5% | 56.0% | 0.10 |
| 6011 | Duct Insulation (R-0 to R-8) | SFD | NLI | Retrofit | 6,382.3 | 3.0% | 193.4 | 0.008 | 0.65 | 20 | \$862.40 | Installation of duct insulation in homes with poorly insulated ducts and heat pumps | 6.5% | 67.0% | 0.13 |

Measure Assumptions - Met-Ed

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|--|-----------------|---------------|-------------------|
| 6012 | Window Film (U=0.51, SHGC=0.24) | SFD | NLI | Retrofit | 7,257.4 | 11.7% | 847.6 | 0.672 | 0.65 | 10 | \$2,400.00 | Installation of window film on single-pane windows in homes with heat pumps | 6.5% | 86.0% | 0.24 |
| 6013 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFD | NLI | Retrofit | 6,220.0 | 5.0% | 312.6 | 0.241 | 0.65 | 20 | \$4,553.14 | Installation of ENERGY STAR windows to replace single-pane windows in homes with heat pumps | 6.5% | 86.0% | 0.06 |
| 6014 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFD | ALL | ROB | 6,220.0 | 5.0% | 312.6 | 0.241 | 0.65 | 20 | \$184.24 | Installation of ENERGY STAR windows instead of double-pane windows in homes with heat pumps | 6.5% | 38.0% | 1.57 |
| 6015 | Radiant Barrier | SFD | ALL | Retrofit | 6,220.0 | 1.2% | 71.9 | 0.058 | 0.65 | 25 | \$1,087.84 | Installation of radiant barriers in homes with heat pumps | 6.5% | 10.0% | 0.06 |
| 6016 | Low Income Weatherization Package | SFD | LI | Retrofit | 7,815.0 | 26.5% | 2,069.2 | 0.212 | 0.65 | 20 | \$6,977.51 | Installation of package of weatherization measures in homes with heat pumps | 6.5% | 75.8% | 0.18 |
| 6017 | Window Film (U=0.51, SHGC=0.24) | SFD | LI | Retrofit | 7,257.4 | 11.7% | 847.6 | 0.672 | 0.65 | 10 | \$2,400.00 | Installation of ENERGY STAR windows to replace single-pane windows in homes with heat pumps | 6.5% | 86.0% | 0.24 |
| 6018 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFD | LI | Retrofit | 6,220.0 | 5.0% | 312.6 | 0.241 | 0.65 | 20 | \$4,553.14 | Installation of ENERGY STAR windows instead of double-pane windows in homes with heat pumps | 6.5% | 86.0% | 0.06 |
| 6019 | Residential New Construction Tier 1 (15% more efficient) | SFD | ALL | NC | 5,505.0 | 26.0% | 1,433.0 | 0.079 | 0.65 | 20 | \$2,561.00 | New home built 15% more efficient than code - in homes with heat pumps | 21.9% | 0.0% | 0.33 |
| 6020 | Residential New Construction Tier 2 (30% more efficient) | SFD | ALL | NC | 5,505.0 | 31.0% | 1,709.0 | 0.158 | 0.65 | 20 | \$3,742.54 | New home built 30% more efficient than code - in homes with heat pumps | 21.9% | 0.0% | 0.27 |
| 6021 | Ceiling Insulation: R-20 to R-60 | SFD | NLI | Retrofit | 13,033.5 | 6.0% | 786.5 | 0.121 | 0.65 | 25 | \$2,724.04 | Addition of R-20 ceiling insulation in adequately insulated homes with non-heat pump electric heating | 15.4% | 75.8% | 0.18 |
| 6022 | Ceiling Insulation: R-8 to R-38 | SFD | NLI | Retrofit | 14,515.5 | 14.1% | 2,040.4 | 0.304 | 0.65 | 25 | \$1,879.96 | Addition of R-8 ceiling insulation in poorly insulated homes with non-heat pump electric heating | 15.4% | 89.0% | 0.68 |
| 6023 | Exterior Wall Insulation: R-0 to R-13 | SFD | NLI | Retrofit | 22,662.4 | 43.3% | 9,817.1 | 0.977 | 0.65 | 25 | \$3,069.52 | Addition of exterior wall insulation in poorly homes with non-heat pump electric heating | 15.4% | 88.0% | 1.93 |
| 6024 | Exterior Wall Insulation: R-0 to R-19 | SFD | NLI | Retrofit | 22,662.4 | 49.2% | 11,146.7 | 1.200 | 0.65 | 25 | \$3,899.12 | Addition of exterior wall insulation in poorly homes with non-heat pump electric heating | 15.4% | 88.0% | 1.74 |
| 6025 | Floor Insulation: R-0 to R-19 | SFD | NLI | Retrofit | 15,226.1 | 7.2% | 1,098.3 | -0.233 | 0.65 | 25 | \$2,036.85 | Addition of floor insulation in homes with unconditioned basements or crawl spaces and non-heat pump electric heating | 1.1% | 67.0% | 0.25 |
| 6026 | Basement Wall Insulation: R-0 to R-13 | SFD | NLI | Retrofit | 13,251.1 | 15.3% | 2,025.4 | 0.084 | 0.65 | 25 | \$2,764.80 | Addition of basement wall insulation in homes with poorly insulated conditioned basements and non-heat pump electric heating | 0.5% | 67.0% | 0.42 |
| 6027 | Air Sealing: 13 ACH50 to 9 ACH50 | SFD | NLI | Retrofit | 15,244.4 | 14.5% | 2,210.8 | 0.055 | 0.65 | 15 | \$968.00 | Air sealing in poorly sealed homes with non-heat pump electric heating | 15.4% | 77.0% | 1.30 |
| 6028 | Air Sealing: 9 ACH50 to 7 ACH50 | SFD | NLI | Retrofit | 13,033.5 | 8.4% | 1,089.0 | 0.035 | 0.65 | 15 | \$968.00 | Air sealing in adequately sealed homes with non-heat pump electric heating | 15.4% | 61.0% | 0.64 |
| 6029 | Duct Sealing: 38.5% to 25% (CFM @25Pa) | SFD | NLI | Retrofit | 13,077.1 | 0.3% | 43.6 | 0.039 | 0.65 | 20 | \$744.00 | Duct sealing in homes with poorly sealed ducts and electric furnaces | 0.7% | 74.0% | 0.06 |
| 6030 | Duct Sealing: 25% to 16.25% (CFM @25Pa) | SFD | NLI | Retrofit | 13,033.5 | 0.2% | 27.7 | 0.033 | 0.65 | 20 | \$744.00 | Duct sealing in homes with adequately sealed ducts and electric furnaces | 0.7% | 56.0% | 0.04 |
| 6031 | Duct Insulation (R-0 to R-8) | SFD | NLI | Retrofit | 13,049.2 | 0.1% | 18.6 | 0.012 | 0.65 | 20 | \$862.40 | Installation of duct insulation in homes with poorly insulated ducts and electric furnaces | 0.7% | 67.0% | 0.02 |
| 6032 | Window Film (U=0.51, SHGC=0.24) | SFD | NLI | Retrofit | 15,067.8 | 8.2% | 1,233.5 | 0.821 | 0.65 | 10 | \$2,400.00 | Installation of window film on single-pane windows in homes with non-heat pump electric heating | 15.4% | 86.0% | 0.32 |
| 6033 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFD | NLI | Retrofit | 13,033.5 | 3.8% | 492.3 | 0.300 | 0.65 | 20 | \$4,553.14 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-heat pump electric heating | 15.4% | 86.0% | 0.09 |
| 6034 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFD | ALL | ROB | 13,033.5 | 3.8% | 492.3 | 0.300 | 0.65 | 20 | \$184.24 | Installation of ENERGY STAR windows instead of double-pane windows in homes with non-heat pump electric heating | 15.4% | 38.0% | 2.26 |
| 6035 | Radiant Barrier | SFD | ALL | Retrofit | 13,033.5 | 1.0% | 130.4 | 0.077 | 0.65 | 25 | \$1,087.84 | Installation of radiant barriers in homes with non-heat pump electric heating | 15.4% | 10.0% | 0.10 |
| 6036 | Low Income Weatherization Package | SFD | LI | Retrofit | 16,352.1 | 25.5% | 4,171.7 | 0.261 | 0.65 | 20 | \$6,977.51 | Installation of package of weatherization measures in homes with non-heat pump electric heating | 15.4% | 75.8% | 0.35 |
| 6037 | Window Film (U=0.51, SHGC=0.24) | SFD | LI | Retrofit | 15,067.8 | 8.2% | 1,233.5 | 0.821 | 0.65 | 10 | \$2,400.00 | Installation of window film on single-pane windows in homes with non-heat pump electric heating | 15.4% | 86.0% | 0.32 |
| 6038 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFD | LI | Retrofit | 13,033.5 | 3.8% | 492.3 | 0.300 | 0.65 | 20 | \$4,553.14 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-heat pump electric heating | 15.4% | 86.0% | 0.09 |
| 6039 | Ceiling Insulation: R-20 to R-60 | SFD | NLI | Retrofit | 2,011.0 | 4.1% | 82.5 | 0.117 | 0.65 | 25 | \$2,724.04 | Addition of R-20 ceiling insulation in adequately insulated homes with non-electric heating | 78.1% | 75.8% | 0.04 |
| 6040 | Ceiling Insulation: R-8 to R-38 | SFD | NLI | Retrofit | 2,164.2 | 9.7% | 210.5 | 0.303 | 0.65 | 25 | \$1,879.96 | Addition of R-8 ceiling insulation in poorly insulated homes with non-electric heating | 78.1% | 89.0% | 0.14 |
| 6041 | Exterior Wall Insulation: R-0 to R-13 | SFD | NLI | Retrofit | 2,853.6 | 30.0% | 857.4 | 0.963 | 0.65 | 25 | \$3,069.52 | Addition of exterior wall insulation in poorly homes with non-electric heating | 78.1% | 88.0% | 0.31 |
| 6042 | Exterior Wall Insulation: R-0 to R-19 | SFD | NLI | Retrofit | 2,853.6 | 34.1% | 974.2 | 1.180 | 0.65 | 25 | \$3,899.12 | Addition of exterior wall insulation in poorly homes with non-electric heating | 78.1% | 88.0% | 0.29 |
| 6043 | Floor Insulation: R-0 to R-19 | SFD | NLI | Retrofit | 1,936.0 | -12.0% | -233.1 | -0.211 | 0.65 | 25 | \$2,036.85 | Addition of floor insulation in homes with unconditioned basements or crawl spaces and non-electric heating | 5.5% | 67.0% | -0.12 |
| 6044 | Basement Wall Insulation: R-0 to R-13 | SFD | NLI | Retrofit | 1,912.2 | -1.0% | -20.0 | -0.025 | 0.65 | 25 | \$2,764.80 | Addition of basement wall insulation in homes with poorly insulated conditioned basements and non-electric heating | 2.5% | 67.0% | -0.01 |
| 6045 | Air Sealing: 13 ACH50 to 9 ACH50 | SFD | NLI | Retrofit | 2,098.7 | 4.2% | 87.6 | 0.058 | 0.65 | 15 | \$968.00 | Air sealing in poorly sealed homes with non-electric heating | 78.1% | 77.0% | 0.08 |
| 6046 | Air Sealing: 9 ACH50 to 7 ACH50 | SFD | NLI | Retrofit | 2,011.0 | 2.1% | 42.0 | 0.028 | 0.65 | 15 | \$968.00 | Air sealing in adequately sealed homes with non-electric heating | 78.1% | 61.0% | 0.04 |

Measure Assumptions - Met-Ed

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|--|-----------------|---------------|-------------------|
| 6047 | Duct Sealing: 38.5% to 25% (CFM @25Pa) | SFD | NLI | Retrofit | 2,067.8 | 2.7% | 56.8 | 0.043 | 0.65 | 20 | \$744.00 | Duct sealing in homes with poorly sealed ducts and non-electric furnaces | 44.3% | 74.0% | 0.07 |
| 6048 | Duct Sealing: 25% to 16.25% (CFM @25Pa) | SFD | NLI | Retrofit | 2,011.0 | 1.8% | 36.0 | 0.031 | 0.65 | 20 | \$744.00 | Duct sealing in homes with adequately sealed ducts and non-electric furnaces | 44.3% | 56.0% | 0.05 |
| 6049 | Duct Insulation (R-0 to R-8) | SFD | NLI | Retrofit | 2,046.0 | 2.0% | 41.5 | 0.021 | 0.65 | 20 | \$862.40 | Installation of duct insulation in homes with poorly insulated ducts and non-electric furnaces | 44.3% | 67.0% | 0.04 |
| 6050 | Window Film (U=0.51, SHGC=0.24) | SFD | NLI | Retrofit | 2,277.4 | 26.4% | 601.5 | 0.823 | 0.65 | 10 | \$2,400.00 | Installation of window film on single-pane windows in homes with non-electric heating | 78.1% | 86.0% | 0.23 |
| 6051 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFD | NLI | Retrofit | 2,011.0 | 10.5% | 211.9 | 0.300 | 0.65 | 20 | \$4,553.14 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-electric heating | 78.1% | 86.0% | 0.06 |
| 6052 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFD | ALL | ROB | 2,011.0 | 10.5% | 211.9 | 0.300 | 0.65 | 20 | \$184.24 | Installation of ENERGY STAR windows instead of double-pane windows in homes with non-electric heating | 78.1% | 38.0% | 1.46 |
| 6053 | Radiant Barrier | SFD | ALL | Retrofit | 2,011.0 | 2.4% | 47.5 | 0.068 | 0.65 | 25 | \$1,087.84 | Installation of radiant barriers in homes with non-electric heating | 78.1% | 10.0% | 0.06 |
| 6054 | Low Income Weatherization Package | SFD | LI | Retrofit | 2,200.8 | 5.9% | 128.8 | 0.093 | 0.65 | 20 | \$2,260.24 | Installation of package of weatherization measures in homes with non-electric heating | 78.1% | 75.0% | 0.05 |
| 6055 | Window Film (U=0.51, SHGC=0.24) | SFD | LI | Retrofit | 2,277.4 | 26.4% | 601.5 | 0.823 | 0.65 | 10 | \$2,400.00 | Installation of window film on single-pane windows in homes with non-electric heating | 78.1% | 86.0% | 0.23 |
| 6056 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFD | LI | Retrofit | 2,011.0 | 10.5% | 211.9 | 0.300 | 0.65 | 20 | \$4,553.14 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-electric heating | 78.1% | 86.0% | 0.06 |
| 6057 | Residential New Construction Tier 1 (15% more efficient) | SFD | ALL | NC | 1,559.0 | 8.1% | 126.0 | 0.090 | 0.65 | 20 | \$2,561.00 | New home built 15% more efficient than code - in homes with non-electric heating | 78.1% | 0.0% | 0.05 |
| 6058 | Residential New Construction Tier 2 (30% more efficient) | SFD | ALL | NC | 1,559.0 | 28.2% | 439.0 | 0.367 | 0.65 | 20 | \$4,971.41 | New home built 30% more efficient than code - in homes with non-electric heating | 78.1% | 0.0% | 0.09 |
| 6059 | Ceiling Insulation: R-20 to R-60 | SFA | NLI | Retrofit | 4,982.0 | 7.1% | 352.0 | 0.094 | 0.65 | 25 | \$2,567.00 | Addition of R-20 ceiling insulation in adequately insulated homes with heat pumps | 6.5% | 75.8% | 0.09 |
| 6060 | Ceiling Insulation: R-8 to R-38 | SFA | NLI | Retrofit | 5,648.6 | 16.2% | 916.6 | 0.254 | 0.65 | 25 | \$1,771.58 | Addition of R-8 ceiling insulation in poorly insulated homes with heat pumps | 6.5% | 89.0% | 0.36 |
| 6061 | Exterior Wall Insulation: R-0 to R-13 | SFA | NLI | Retrofit | 7,642.9 | 35.5% | 2,709.8 | 0.474 | 0.65 | 25 | \$2,968.88 | Addition of exterior wall insulation in poorly homes with heat pumps | 6.5% | 88.0% | 0.58 |
| 6062 | Exterior Wall Insulation: R-0 to R-19 | SFA | NLI | Retrofit | 7,642.9 | 40.0% | 3,054.3 | 0.565 | 0.65 | 25 | \$3,771.28 | Addition of exterior wall insulation in poorly homes with heat pumps | 6.5% | 88.0% | 0.52 |
| 6063 | Floor Insulation: R-0 to R-19 | SFA | NLI | Retrofit | 5,132.3 | 3.4% | 175.8 | -0.132 | 0.65 | 25 | \$1,572.50 | Addition of floor insulation in homes with unconditioned basements or crawl spaces and heat pumps | 0.5% | 67.0% | 0.02 |
| 6064 | Basement Wall Insulation: R-0 to R-13 | SFA | NLI | Retrofit | 4,163.8 | 8.3% | 345.8 | 0.006 | 0.65 | 25 | \$2,406.40 | Addition of basement wall insulation in homes with poorly insulated conditioned basements and heat pumps | 0.2% | 67.0% | 0.08 |
| 6065 | Air Sealing: 13 ACH50 to 9 ACH50 | SFA | NLI | Retrofit | 5,964.4 | 16.5% | 982.3 | 0.053 | 0.65 | 15 | \$748.00 | Air sealing in poorly sealed homes with heat pumps | 6.5% | 77.0% | 0.77 |
| 6066 | Air Sealing: 9 ACH50 to 7 ACH50 | SFA | NLI | Retrofit | 4,982.0 | 9.4% | 467.9 | 0.026 | 0.65 | 15 | \$748.00 | Air sealing in adequately sealed homes with heat pumps | 6.5% | 61.0% | 0.37 |
| 6067 | Duct Sealing: 38.5% to 25% (CFM @25Pa) | SFA | NLI | Retrofit | 5,128.6 | 2.9% | 146.5 | 0.024 | 0.65 | 20 | \$744.00 | Duct sealing in homes with poorly sealed ducts and heat pumps | 6.5% | 74.0% | 0.13 |
| 6068 | Duct Sealing: 25% to 16.25% (CFM @25Pa) | SFA | NLI | Retrofit | 4,982.0 | 2.0% | 97.3 | 0.009 | 0.65 | 20 | \$744.00 | Duct sealing in homes with adequately sealed ducts and heat pumps | 6.5% | 56.0% | 0.08 |
| 6069 | Duct Insulation (R-0 to R-8) | SFA | NLI | Retrofit | 5,101.6 | 2.8% | 142.2 | 0.004 | 0.65 | 20 | \$666.40 | Installation of duct insulation in homes with poorly insulated ducts and heat pumps | 6.5% | 67.0% | 0.12 |
| 6070 | Window Film (U=0.51, SHGC=0.24) | SFA | NLI | Retrofit | 5,694.5 | 10.9% | 622.3 | 0.487 | 0.65 | 10 | \$1,608.00 | Installation of window film on single-pane windows in homes with heat pumps | 6.5% | 86.0% | 0.26 |
| 6071 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFA | NLI | Retrofit | 4,982.0 | 4.8% | 240.7 | 0.181 | 0.65 | 20 | \$3,050.60 | Installation of ENERGY STAR windows to replace single-pane windows in homes with heat pumps | 6.5% | 86.0% | 0.07 |
| 6072 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFA | ALL | ROB | 4,982.0 | 4.8% | 240.7 | 0.181 | 0.65 | 20 | \$123.44 | Installation of ENERGY STAR windows instead of double-pane windows in homes with heat pumps | 6.5% | 38.0% | 1.78 |
| 6073 | Low Income Weatherization Package | SFA | LI | Retrofit | 6,234.3 | 26.8% | 1,671.9 | 0.158 | 0.65 | 20 | \$4,948.29 | Installation of package of weatherization measures in homes with heat pumps | 6.5% | 75.8% | 0.20 |
| 6074 | Window Film (U=0.51, SHGC=0.24) | SFA | LI | Retrofit | 5,694.5 | 10.9% | 622.3 | 0.487 | 0.65 | 10 | \$1,608.00 | Installation of window film on single-pane windows in homes with heat pumps | 6.5% | 86.0% | 0.26 |
| 6075 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFA | LI | Retrofit | 4,982.0 | 4.8% | 240.7 | 0.181 | 0.65 | 20 | \$3,050.60 | Installation of ENERGY STAR windows to replace single-pane windows in homes with heat pumps | 6.5% | 86.0% | 0.07 |
| 6076 | Residential New Construction Tier 1 (15% more efficient) | SFA | ALL | NC | 4,613.0 | 32.3% | 1,488.0 | 0.102 | 0.65 | 20 | \$2,561.00 | New home built 15% more efficient than code - in homes with heat pumps | 21.9% | 0.0% | 0.34 |
| 6077 | Residential New Construction Tier 2 (30% more efficient) | SFA | ALL | NC | 4,613.0 | 34.0% | 1,568.0 | 0.163 | 0.65 | 20 | \$3,345.67 | New home built 30% more efficient than code - in homes with heat pumps | 21.9% | 0.0% | 0.28 |
| 6078 | Ceiling Insulation: R-20 to R-60 | SFA | NLI | Retrofit | 9,822.3 | 7.8% | 770.2 | 0.117 | 0.65 | 25 | \$2,567.00 | Addition of R-20 ceiling insulation in adequately insulated homes with non-heat pump electric heating | 15.4% | 75.8% | 0.19 |
| 6079 | Ceiling Insulation: R-8 to R-38 | SFA | NLI | Retrofit | 11,268.4 | 17.7% | 1,992.8 | 0.300 | 0.65 | 25 | \$1,771.58 | Addition of R-8 ceiling insulation in poorly insulated homes with non-heat pump electric heating | 15.4% | 89.0% | 0.71 |
| 6080 | Exterior Wall Insulation: R-0 to R-13 | SFA | NLI | Retrofit | 15,452.8 | 37.1% | 5,738.4 | 0.555 | 0.65 | 25 | \$2,968.88 | Addition of exterior wall insulation in poorly homes with non-heat pump electric heating | 15.4% | 88.0% | 1.17 |
| 6081 | Exterior Wall Insulation: R-0 to R-19 | SFA | NLI | Retrofit | 15,452.8 | 42.0% | 6,494.9 | 0.665 | 0.65 | 25 | \$3,771.28 | Addition of exterior wall insulation in poorly homes with non-heat pump electric heating | 15.4% | 88.0% | 1.04 |

Measure Assumptions - Met-Ed

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|--|-----------------|---------------|-------------------|
| 6082 | Floor Insulation: R-0 to R-19 | SFA | NLI | Retrofit | 10,660.7 | 9.3% | 986.2 | -0.165 | 0.65 | 25 | \$1,572.50 | Addition of floor insulation in homes with unconditioned basements or crawl spaces and non-heat pump electric heating | 1.1% | 67.0% | 0.30 |
| 6083 | Basement Wall Insulation: R-0 to R-13 | SFA | NLI | Retrofit | 9,589.5 | 19.1% | 1,835.9 | 0.131 | 0.65 | 25 | \$2,406.40 | Addition of basement wall insulation in homes with poorly insulated conditioned basements and non-heat pump electric heating | 0.5% | 67.0% | 0.45 |
| 6084 | Air Sealing: 13 ACH50 to 9 ACH50 | SFA | NLI | Retrofit | 11,998.1 | 18.1% | 2,175.8 | 0.069 | 0.65 | 15 | \$748.00 | Air sealing in poorly sealed homes with non-heat pump electric heating | 15.4% | 77.0% | 1.67 |
| 6085 | Air Sealing: 9 ACH50 to 7 ACH50 | SFA | NLI | Retrofit | 9,822.3 | 10.9% | 1,069.5 | 0.035 | 0.65 | 15 | \$748.00 | Air sealing in adequately sealed homes with non-heat pump electric heating | 15.4% | 61.0% | 0.82 |
| 6086 | Duct Sealing: 38.5% to 25% (CFM @25Pa) | SFA | NLI | Retrofit | 9,851.9 | 0.3% | 29.6 | 0.026 | 0.65 | 20 | \$744.00 | Duct sealing in homes with poorly sealed ducts and electric furnaces | 0.7% | 74.0% | 0.04 |
| 6087 | Duct Sealing: 25% to 16.25% (CFM @25Pa) | SFA | NLI | Retrofit | 9,822.3 | 0.2% | 18.9 | 0.017 | 0.65 | 20 | \$744.00 | Duct sealing in homes with adequately sealed ducts and electric furnaces | 0.7% | 56.0% | 0.03 |
| 6088 | Duct Insulation (R-0 to R-8) | SFA | NLI | Retrofit | 9,829.7 | 0.1% | 8.9 | 0.006 | 0.65 | 20 | \$666.40 | Installation of duct insulation in homes with poorly insulated ducts and electric furnaces | 0.7% | 67.0% | 0.01 |
| 6089 | Window Film (U=0.51, SHGC=0.24) | SFA | NLI | Retrofit | 11,301.2 | 8.3% | 938.7 | 0.583 | 0.65 | 10 | \$1,608.00 | Installation of window film on single-pane windows in homes with non-heat pump electric heating | 15.4% | 86.0% | 0.36 |
| 6090 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFA | NLI | Retrofit | 9,822.3 | 3.9% | 384.0 | 0.223 | 0.65 | 20 | \$3,050.60 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-heat pump electric heating | 15.4% | 86.0% | 0.10 |
| 6091 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFA | ALL | ROB | 9,822.3 | 3.9% | 384.0 | 0.223 | 0.65 | 20 | \$123.44 | Installation of ENERGY STAR windows instead of double-pane windows in homes with non-heat pump electric heating | 15.4% | 38.0% | 2.59 |
| 6092 | Low Income Weatherization Package | SFA | LI | Retrofit | 12,640.5 | 28.8% | 3,638.8 | 0.188 | 0.65 | 20 | \$4,948.29 | Installation of package of weatherization measures in homes with non-heat pump electric heating | 15.4% | 75.8% | 0.43 |
| 6093 | Window Film (U=0.51, SHGC=0.24) | SFA | LI | Retrofit | 11,301.2 | 8.3% | 938.7 | 0.583 | 0.65 | 10 | \$1,608.00 | Installation of window film on single-pane windows in homes with non-heat pump electric heating | 15.4% | 86.0% | 0.36 |
| 6094 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFA | LI | Retrofit | 9,822.3 | 3.9% | 384.0 | 0.223 | 0.65 | 20 | \$3,050.60 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-heat pump electric heating | 15.4% | 86.0% | 0.10 |
| 6095 | Ceiling Insulation: R-20 to R-60 | SFA | NLI | Retrofit | 1,866.0 | 4.1% | 77.3 | 0.126 | 0.65 | 25 | \$2,567.00 | Addition of R-20 ceiling insulation in adequately insulated homes with non-electric heating | 78.1% | 75.8% | 0.04 |
| 6096 | Ceiling Insulation: R-8 to R-38 | SFA | NLI | Retrofit | 2,014.1 | 10.0% | 202.0 | 0.309 | 0.65 | 25 | \$1,771.58 | Addition of R-8 ceiling insulation in poorly insulated homes with non-electric heating | 78.1% | 89.0% | 0.15 |
| 6097 | Exterior Wall Insulation: R-0 to R-13 | SFA | NLI | Retrofit | 2,410.1 | 22.9% | 553.0 | 0.562 | 0.65 | 25 | \$2,968.88 | Addition of exterior wall insulation in poorly homes with non-electric heating | 78.1% | 88.0% | 0.20 |
| 6098 | Exterior Wall Insulation: R-0 to R-19 | SFA | NLI | Retrofit | 2,410.1 | 25.9% | 624.6 | 0.672 | 0.65 | 25 | \$3,771.28 | Addition of exterior wall insulation in poorly homes with non-electric heating | 78.1% | 88.0% | 0.18 |
| 6099 | Floor Insulation: R-0 to R-19 | SFA | NLI | Retrofit | 1,701.7 | -11.5% | -195.7 | -0.152 | 0.65 | 25 | \$1,572.50 | Addition of floor insulation in homes with unconditioned basements or crawl spaces and non-electric heating | 5.5% | 67.0% | -0.12 |
| 6100 | Basement Wall Insulation: R-0 to R-13 | SFA | NLI | Retrofit | 1,687.3 | -0.6% | -10.0 | 0.002 | 0.65 | 25 | \$2,406.40 | Addition of basement wall insulation in homes with poorly insulated conditioned basements and non-electric heating | 2.5% | 67.0% | 0.00 |
| 6101 | Air Sealing: 13 ACH50 to 9 ACH50 | SFA | NLI | Retrofit | 1,951.7 | 4.4% | 85.7 | 0.061 | 0.65 | 15 | \$748.00 | Air sealing in poorly sealed homes with non-electric heating | 78.1% | 77.0% | 0.11 |
| 6102 | Air Sealing: 9 ACH50 to 7 ACH50 | SFA | NLI | Retrofit | 1,866.0 | 2.2% | 41.4 | 0.035 | 0.65 | 15 | \$748.00 | Air sealing in adequately sealed homes with non-electric heating | 78.1% | 61.0% | 0.05 |
| 6103 | Duct Sealing: 38.5% to 25% (CFM @25Pa) | SFA | NLI | Retrofit | 1,908.0 | 2.2% | 42.0 | 0.026 | 0.65 | 20 | \$744.00 | Duct sealing in homes with poorly sealed ducts and non-electric furnaces | 44.3% | 74.0% | 0.05 |
| 6104 | Duct Sealing: 25% to 16.25% (CFM @25Pa) | SFA | NLI | Retrofit | 1,866.0 | 1.4% | 25.7 | 0.017 | 0.65 | 20 | \$744.00 | Duct sealing in homes with adequately sealed ducts and non-electric furnaces | 44.3% | 56.0% | 0.03 |
| 6105 | Duct Insulation (R-0 to R-8) | SFA | NLI | Retrofit | 1,886.3 | 1.2% | 22.8 | 0.007 | 0.65 | 20 | \$666.40 | Installation of duct insulation in homes with poorly insulated ducts and non-electric furnaces | 44.3% | 67.0% | 0.03 |
| 6106 | Window Film (U=0.51, SHGC=0.24) | SFA | NLI | Retrofit | 2,084.7 | 25.4% | 529.9 | 0.590 | 0.65 | 10 | \$1,608.00 | Installation of window film on single-pane windows in homes with non-electric heating | 78.1% | 86.0% | 0.27 |
| 6107 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFA | NLI | Retrofit | 1,866.0 | 10.3% | 192.2 | 0.221 | 0.65 | 20 | \$3,050.60 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-electric heating | 78.1% | 86.0% | 0.07 |
| 6108 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFA | ALL | ROB | 1,866.0 | 10.3% | 192.2 | 0.221 | 0.65 | 20 | \$123.44 | Installation of ENERGY STAR windows instead of double-pane windows in homes with non-electric heating | 78.1% | 38.0% | 1.78 |
| 6109 | Low Income Weatherization Package | SFA | LI | Retrofit | 1,983.5 | 4.5% | 88.5 | 0.070 | 0.65 | 20 | \$1,915.64 | Installation of package of weatherization measures in homes with non-electric heating | 78.1% | 75.8% | 0.04 |
| 6110 | Window Film (U=0.51, SHGC=0.24) | SFA | LI | Retrofit | 2,084.7 | 25.4% | 529.9 | 0.590 | 0.65 | 10 | \$1,608.00 | Installation of window film on single-pane windows in homes with non-electric heating | 78.1% | 86.0% | 0.27 |
| 6111 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFA | LI | Retrofit | 1,866.0 | 10.3% | 192.2 | 0.221 | 0.65 | 20 | \$3,050.60 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-electric heating | 78.1% | 86.0% | 0.07 |
| 6112 | Residential New Construction Tier 1 (15% more efficient) | SFA | ALL | NC | 1,433.0 | 10.0% | 144.0 | 0.115 | 0.65 | 20 | \$2,561.00 | New home built 15% more efficient than code - in homes with non-electric heating | 78.1% | 0.0% | 0.05 |
| 6113 | Residential New Construction Tier 2 (30% more efficient) | SFA | ALL | NC | 1,433.0 | 23.6% | 338.0 | 0.317 | 0.65 | 20 | \$4,302.19 | New home built 30% more efficient than code - in homes with non-electric heating | 78.1% | 0.0% | 0.08 |
| 6114 | Exterior Wall Insulation: R-0 to R-13 | MF | NLI | Retrofit | 3,379.6 | 32.6% | 1,103.3 | 0.224 | 0.65 | 25 | \$1,509.60 | Addition of exterior wall insulation in poorly homes with heat pumps | 6.5% | 88.0% | 0.48 |
| 6115 | Exterior Wall Insulation: R-0 to R-19 | MF | NLI | Retrofit | 3,379.6 | 36.7% | 1,241.3 | 0.261 | 0.65 | 25 | \$1,917.60 | Addition of exterior wall insulation in poorly homes with heat pumps | 6.5% | 88.0% | 0.43 |
| 6116 | Air Sealing: 13 ACH50 to 9 ACH50 | MF | NLI | Retrofit | 2,624.5 | 12.5% | 328.5 | 0.030 | 0.65 | 15 | \$385.00 | Air sealing in poorly sealed homes with heat pumps | 6.5% | 77.0% | 0.51 |

Measure Assumptions - Met-Ed

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|---|-----------------|---------------|-------------------|
| 6117 | Air Sealing: 9 ACH50 to 7 ACH50 | MF | NLI | Retrofit | 2,296.1 | 6.8% | 156.0 | 0.021 | 0.65 | 15 | \$385.00 | Air sealing in adequately sealed homes with heat pumps | 6.5% | 61.0% | 0.25 |
| 6118 | Duct Sealing: 38.5% to 25% (CFM @25Pa) | MF | NLI | Retrofit | 2,545.4 | 9.8% | 249.3 | 0.089 | 0.65 | 20 | \$744.00 | Duct sealing in homes with poorly sealed ducts and heat pumps | 6.5% | 74.0% | 0.24 |
| 6119 | Duct Sealing: 25% to 16.25% (CFM @25Pa) | MF | NLI | Retrofit | 2,296.1 | 4.9% | 112.7 | 0.058 | 0.65 | 20 | \$744.00 | Duct sealing in homes with adequately sealed ducts and heat pumps | 6.5% | 56.0% | 0.12 |
| 6120 | Duct Insulation (R-0 to R-8) | MF | NLI | Retrofit | 2,550.5 | 11.6% | 295.5 | 0.170 | 0.65 | 20 | \$453.60 | Installation of duct insulation in homes with poorly insulated ducts and heat pumps | 6.5% | 67.0% | 0.54 |
| 6121 | Window Film (U=0.51, SHGC=0.24) | MF | NLI | Retrofit | 2,784.6 | 19.1% | 532.1 | 0.263 | 0.65 | 10 | \$1,080.00 | Installation of window film on single-pane windows in homes with heat pumps | 6.5% | 86.0% | 0.28 |
| 6122 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | MF | NLI | Retrofit | 2,296.1 | 8.9% | 204.8 | 0.108 | 0.65 | 20 | \$2,048.91 | Installation of ENERGY STAR windows to replace single-pane windows in homes with heat pumps | 6.5% | 86.0% | 0.08 |
| 6123 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | MF | ALL | ROB | 2,296.1 | 8.9% | 204.8 | 0.108 | 0.65 | 20 | \$82.91 | Installation of ENERGY STAR windows instead of double-pane windows in homes with heat pumps | 6.5% | 38.0% | 2.00 |
| 6124 | Low Income Weatherization Package | MF | LI | Retrofit | 2,726.8 | 20.6% | 562.0 | 0.117 | 0.65 | 20 | \$1,828.02 | Installation of package of weatherization measures in homes with heat pumps | 6.5% | 75.8% | 0.20 |
| 6125 | Window Film (U=0.51, SHGC=0.24) | MF | LI | Retrofit | 2,784.6 | 19.1% | 532.1 | 0.263 | 0.65 | 10 | \$1,080.00 | Installation of window film on single-pane windows in homes with heat pumps | 6.5% | 86.0% | 0.28 |
| 6126 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | MF | LI | Retrofit | 2,296.1 | 8.9% | 204.8 | 0.108 | 0.65 | 20 | \$2,048.91 | Installation of ENERGY STAR windows to replace single-pane windows in homes with heat pumps | 6.5% | 86.0% | 0.08 |
| 6127 | Residential New Construction Tier 1 (15% more efficient) | MF | ALL | NC | 1,830.0 | 22.2% | 406.0 | 0.101 | 0.65 | 20 | \$2,561.00 | New home built 15% more efficient than code - in homes with heat pumps | 21.9% | 0.0% | 0.11 |
| 6128 | Residential New Construction Tier 2 (30% more efficient) | MF | ALL | NC | 1,830.0 | 25.4% | 464.0 | 0.112 | 0.65 | 20 | \$3,345.67 | New home built 30% more efficient than code - in homes with heat pumps | 21.9% | 0.0% | 0.09 |
| 6129 | Exterior Wall Insulation: R-0 to R-13 | MF | NLI | Retrofit | 5,401.6 | 39.3% | 2,121.9 | 0.266 | 0.65 | 25 | \$1,509.60 | Addition of exterior wall insulation in poorly homes with non-heat pump electric heating | 15.4% | 88.0% | 0.87 |
| 6130 | Exterior Wall Insulation: R-0 to R-19 | MF | NLI | Retrofit | 5,401.6 | 44.0% | 2,378.7 | 0.312 | 0.65 | 25 | \$1,917.60 | Addition of exterior wall insulation in poorly homes with non-heat pump electric heating | 15.4% | 88.0% | 0.77 |
| 6131 | Air Sealing: 13 ACH50 to 9 ACH50 | MF | NLI | Retrofit | 3,975.6 | 16.6% | 658.6 | 0.042 | 0.65 | 15 | \$385.00 | Air sealing in poorly sealed homes with non-heat pump electric heating | 15.4% | 77.0% | 1.01 |
| 6132 | Air Sealing: 9 ACH50 to 7 ACH50 | MF | NLI | Retrofit | 3,317.0 | 9.3% | 309.4 | 0.022 | 0.65 | 15 | \$385.00 | Air sealing in adequately sealed homes with non-heat pump electric heating | 15.4% | 61.0% | 0.47 |
| 6133 | Duct Sealing: 38.5% to 25% (CFM @25Pa) | MF | NLI | Retrofit | 3,419.4 | 3.0% | 102.4 | 0.112 | 0.65 | 20 | \$744.00 | Duct sealing in homes with poorly sealed ducts and electric furnaces | 0.7% | 74.0% | 0.15 |
| 6134 | Duct Sealing: 25% to 16.25% (CFM @25Pa) | MF | NLI | Retrofit | 3,317.0 | 2.0% | 65.4 | 0.070 | 0.65 | 20 | \$744.00 | Duct sealing in homes with adequately sealed ducts and electric furnaces | 0.7% | 56.0% | 0.09 |
| 6135 | Duct Insulation (R-0 to R-8) | MF | NLI | Retrofit | 3,464.0 | 5.0% | 173.0 | 0.227 | 0.65 | 20 | \$453.60 | Installation of duct insulation in homes with poorly insulated ducts and electric furnaces | 0.7% | 67.0% | 0.45 |
| 6136 | Window Film (U=0.51, SHGC=0.24) | MF | NLI | Retrofit | 4,207.5 | 18.6% | 783.3 | 0.318 | 0.65 | 10 | \$1,080.00 | Installation of window film on single-pane windows in homes with non-heat pump electric heating | 15.4% | 86.0% | 0.39 |
| 6137 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | MF | NLI | Retrofit | 3,317.0 | 9.3% | 309.2 | 0.122 | 0.65 | 20 | \$2,048.91 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-heat pump electric heating | 15.4% | 86.0% | 0.11 |
| 6138 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | MF | ALL | ROB | 3,317.0 | 9.3% | 309.2 | 0.122 | 0.65 | 20 | \$82.91 | Installation of ENERGY STAR windows instead of double-pane windows in homes with non-heat pump electric heating | 15.4% | 38.0% | 2.78 |
| 6139 | Low Income Weatherization Package | MF | LI | Retrofit | 4,173.5 | 23.0% | 958.8 | 0.145 | 0.65 | 20 | \$1,828.02 | Installation of package of weatherization measures in homes with non-heat pump electric heating | 15.4% | 75.8% | 0.33 |
| 6140 | Window Film (U=0.51, SHGC=0.24) | MF | LI | Retrofit | 4,207.5 | 18.6% | 783.3 | 0.318 | 0.65 | 10 | \$1,080.00 | Installation of window film on single-pane windows in homes with non-heat pump electric heating | 15.4% | 86.0% | 0.39 |
| 6141 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | MF | LI | Retrofit | 3,317.0 | 9.3% | 309.2 | 0.122 | 0.65 | 20 | \$2,048.91 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-heat pump electric heating | 15.4% | 86.0% | 0.11 |
| 6142 | Exterior Wall Insulation: R-0 to R-13 | MF | NLI | Retrofit | 2,095.8 | 10.7% | 223.2 | 0.259 | 0.65 | 25 | \$1,509.60 | Addition of exterior wall insulation in poorly homes with non-electric heating | 78.1% | 88.0% | 0.17 |
| 6143 | Exterior Wall Insulation: R-0 to R-19 | MF | NLI | Retrofit | 2,095.8 | 11.9% | 250.4 | 0.306 | 0.65 | 25 | \$1,917.60 | Addition of exterior wall insulation in poorly homes with non-electric heating | 78.1% | 88.0% | 0.15 |
| 6144 | Air Sealing: 13 ACH50 to 9 ACH50 | MF | NLI | Retrofit | 1,901.8 | 1.3% | 25.4 | 0.034 | 0.65 | 15 | \$385.00 | Air sealing in poorly sealed homes with non-electric heating | 78.1% | 77.0% | 0.08 |
| 6145 | Air Sealing: 9 ACH50 to 7 ACH50 | MF | NLI | Retrofit | 1,876.4 | 0.7% | 12.8 | 0.026 | 0.65 | 15 | \$385.00 | Air sealing in adequately sealed homes with non-electric heating | 78.1% | 61.0% | 0.05 |
| 6146 | Duct Sealing: 38.5% to 25% (CFM @25Pa) | MF | NLI | Retrofit | 1,986.7 | 5.6% | 110.4 | 0.114 | 0.65 | 20 | \$744.00 | Duct sealing in homes with poorly sealed ducts and non-electric furnaces | 44.3% | 74.0% | 0.16 |
| 6147 | Duct Sealing: 25% to 16.25% (CFM @25Pa) | MF | NLI | Retrofit | 1,876.4 | 3.8% | 71.2 | 0.072 | 0.65 | 20 | \$744.00 | Duct sealing in homes with adequately sealed ducts and non-electric furnaces | 44.3% | 56.0% | 0.10 |
| 6148 | Duct Insulation (R-0 to R-8) | MF | NLI | Retrofit | 2,031.4 | 9.0% | 182.6 | 0.231 | 0.65 | 20 | \$453.60 | Installation of duct insulation in homes with poorly insulated ducts and non-electric furnaces | 44.3% | 67.0% | 0.48 |
| 6149 | Window Film (U=0.51, SHGC=0.24) | MF | NLI | Retrofit | 2,027.9 | 20.4% | 412.7 | 0.304 | 0.65 | 10 | \$1,080.00 | Installation of window film on single-pane windows in homes with non-electric heating | 78.1% | 86.0% | 0.26 |
| 6150 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | MF | NLI | Retrofit | 1,876.4 | 7.8% | 145.5 | 0.123 | 0.65 | 20 | \$2,048.91 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-electric heating | 78.1% | 86.0% | 0.07 |
| 6151 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | MF | ALL | ROB | 1,876.4 | 7.8% | 145.5 | 0.123 | 0.65 | 20 | \$82.91 | Installation of ENERGY STAR windows instead of double-pane windows in homes with non-electric heating | 78.1% | 38.0% | 1.75 |
| 6152 | Low Income Weatherization Package | MF | LI | Retrofit | 1,921.9 | 5.2% | 99.9 | 0.116 | 0.65 | 20 | \$1,417.36 | Installation of package of weatherization measures in homes with non-electric heating | 78.1% | 75.8% | 0.08 |

Measure Assumptions - Met-Ed

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|---|-----------------|---------------|-------------------|
| 6153 | Window Film (U=0.51, SHGC=0.24) | MF | LI | Retrofit | 2,027.9 | 20.4% | 412.7 | 0.304 | 0.65 | 10 | \$1,080.00 | Installation of window film on single-pane windows in homes with non-electric heating | 78.1% | 86.0% | 0.26 |
| 6154 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | MF | LI | Retrofit | 1,876.4 | 7.8% | 145.5 | 0.123 | 0.65 | 20 | \$2,048.91 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-electric heating | 78.1% | 86.0% | 0.07 |
| 6155 | Residential New Construction Tier 1 (15% more efficient) | MF | ALL | NC | 1,338.0 | 6.8% | 91.0 | 0.123 | 0.65 | 20 | \$2,561.00 | New home built 15% more efficient than code - in homes with non-electric heating | 78.1% | 0.0% | 0.04 |
| 6156 | Residential New Construction Tier 2 (30% more efficient) | MF | ALL | NC | 1,338.0 | 21.5% | 288.0 | 0.228 | 0.65 | 20 | \$4,302.19 | New home built 30% more efficient than code - in homes with non-electric heating | 78.1% | 0.0% | 0.06 |
| 7000 | Miscellaneous | | | | | | | | | | | | | | |
| 7001 | Indirect Feedback (Home Energy Reports) - homes with ASHP | SFD | All | Retrofit | 16,474.0 | 1.5% | 247.1 | 0.0282 | 0.65 | 1 | \$0.00 | Home energy reports in homes with heat pumps | 6.5% | 0.0% | 5.00 |
| 7002 | Direct (Real Time) Feedback - homes with ASHP | SFD | All | Retrofit | 16,474.0 | 9.2% | 1,515.6 | 0.1730 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with heat pumps | 6.5% | 5.0% | 2.13 |
| 7003 | Indirect Feedback (Home Energy Reports) - homes with non-ASHP electric heating | SFD | All | Retrofit | 23,312.0 | 1.5% | 349.7 | 0.0399 | 0.65 | 1 | \$0.00 | Home energy reports in homes with non-heat pump electric heating | 15.4% | 0.0% | 5.00 |
| 7004 | Direct (Real Time) Feedback - homes with non-ASHP electric heating | SFD | All | Retrofit | 23,312.0 | 9.2% | 2,144.7 | 0.2448 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with non-heat pump electric heating | 15.4% | 5.0% | 3.01 |
| 7005 | Indirect Feedback (Home Energy Reports) - homes with gas heating | SFD | All | Retrofit | 8,593.0 | 1.5% | 128.9 | 0.0147 | 0.65 | 1 | \$0.00 | Home energy reports in homes with non-electric heating | 78.1% | 0.0% | 5.00 |
| 7006 | Direct (Real Time) Feedback - homes with gas heating | SFD | All | Retrofit | 8,593.0 | 9.2% | 790.6 | 0.0902 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with non-electric heating | 78.1% | 5.0% | 1.17 |
| 7007 | Variable Speed Pool Pumps (with Load Shifting Option) | SFD | All | Retrofit | 706.6 | 84.0% | 593.5 | 0.3908 | 1.00 | 10 | \$750.00 | Installation of a variable speed pool pump to replace a constant speed pool pump | 10.3% | 25.0% | 0.61 |
| 7008 | Indirect Feedback (Home Energy Reports) - homes with ASHP | SFD | All | NC | 15,914.0 | 1.5% | 238.7 | 0.0273 | 0.65 | 1 | \$0.00 | Home energy reports in homes with heat pumps | 21.9% | 0.0% | 5.00 |
| 7009 | Direct (Real Time) Feedback - homes with ASHP | SFD | All | NC | 15,914.0 | 9.2% | 1,464.1 | 0.1671 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with heat pumps | 21.9% | 0.0% | 2.06 |
| 7010 | Indirect Feedback (Home Energy Reports) - homes with gas heating | SFD | All | NC | 8,602.0 | 1.5% | 129.0 | 0.0147 | 0.65 | 1 | \$0.00 | Home energy reports in homes with non-electric heating | 78.1% | 0.0% | 5.00 |
| 7011 | Direct (Real Time) Feedback - homes with gas heating | SFD | All | NC | 8,602.0 | 9.2% | 791.4 | 0.0903 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with non-electric heating | 78.1% | 0.0% | 1.17 |
| 7012 | Variable Speed Pool Pumps (with Load Shifting Option) | SFD | All | NC | 706.6 | 84.0% | 593.5 | 0.3908 | 1.00 | 10 | \$750.00 | Installation of a variable speed pool pump to replace a constant speed pool pump | 10.3% | 0.0% | 0.61 |
| 7013 | Indirect Feedback (Home Energy Reports) - homes with ASHP | SFA | All | Retrofit | 13,760.0 | 1.5% | 206.4 | 0.0236 | 0.65 | 1 | \$0.00 | Home energy reports in homes with heat pumps | 6.5% | 0.0% | 5.00 |
| 7014 | Direct (Real Time) Feedback - homes with ASHP | SFA | All | Retrofit | 13,760.0 | 9.2% | 1,265.9 | 0.1445 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with heat pumps | 6.5% | 5.0% | 1.78 |
| 7015 | Indirect Feedback (Home Energy Reports) - homes with non-ASHP electric heating | SFA | All | Retrofit | 18,617.0 | 1.5% | 279.3 | 0.0319 | 0.65 | 1 | \$0.00 | Home energy reports in homes with non-heat pump electric heating | 15.4% | 0.0% | 5.00 |
| 7016 | Direct (Real Time) Feedback - homes with non-ASHP electric heating | SFA | All | Retrofit | 18,617.0 | 9.2% | 1,712.8 | 0.1955 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with non-heat pump electric heating | 15.4% | 5.0% | 2.41 |
| 7017 | Indirect Feedback (Home Energy Reports) - homes with gas heating | SFA | All | Retrofit | 7,485.0 | 1.5% | 112.3 | 0.0128 | 0.65 | 1 | \$0.00 | Home energy reports in homes with non-electric heating | 78.1% | 0.0% | 5.00 |
| 7018 | Direct (Real Time) Feedback - homes with gas heating | SFA | All | Retrofit | 7,485.0 | 9.2% | 688.6 | 0.0786 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with non-electric heating | 78.1% | 5.0% | 1.02 |
| 7019 | Indirect Feedback (Home Energy Reports) - homes with ASHP | SFA | All | NC | 13,517.0 | 1.5% | 202.8 | 0.0231 | 0.65 | 1 | \$0.00 | Home energy reports in homes with heat pumps | 21.9% | 0.0% | 5.00 |
| 7020 | Direct (Real Time) Feedback - homes with ASHP | SFA | All | NC | 13,517.0 | 9.2% | 1,243.6 | 0.1420 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with heat pumps | 21.9% | 0.0% | 1.75 |
| 7021 | Indirect Feedback (Home Energy Reports) - homes with gas heating | SFA | All | NC | 7,383.0 | 1.5% | 110.7 | 0.0126 | 0.65 | 1 | \$0.00 | Home energy reports in homes with non-electric heating | 78.1% | 0.0% | 5.00 |
| 7022 | Direct (Real Time) Feedback - homes with gas heating | SFA | All | NC | 7,383.0 | 9.2% | 679.2 | 0.0775 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with non-electric heating | 78.1% | 0.0% | 1.01 |
| 7023 | Indirect Feedback (Home Energy Reports) - homes with ASHP | MF | All | Retrofit | 10,167.0 | 1.5% | 152.5 | 0.0174 | 0.65 | 1 | \$0.00 | Home energy reports in homes with heat pumps | 6.5% | 0.0% | 5.00 |
| 7024 | Direct (Real Time) Feedback - homes with ASHP | MF | All | Retrofit | 10,167.0 | 9.2% | 935.4 | 0.1068 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with heat pumps | 6.5% | 5.0% | 1.31 |
| 7025 | Indirect Feedback (Home Energy Reports) - homes with non-ASHP electric heating | MF | All | Retrofit | 11,190.0 | 1.5% | 167.9 | 0.0192 | 0.65 | 1 | \$0.00 | Home energy reports in homes with non-heat pump electric heating | 15.4% | 0.0% | 5.00 |
| 7026 | Direct (Real Time) Feedback - homes with non-ASHP electric heating | MF | All | Retrofit | 11,190.0 | 9.2% | 1,029.5 | 0.1175 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with non-heat pump electric heating | 15.4% | 5.0% | 1.45 |
| 7027 | Indirect Feedback (Home Energy Reports) - homes with gas heating | MF | All | Retrofit | 6,735.0 | 1.5% | 101.0 | 0.0115 | 0.65 | 1 | \$0.00 | Home energy reports in homes with non-electric heating | 78.1% | 0.0% | 5.00 |
| 7028 | Direct (Real Time) Feedback - homes with gas heating | MF | All | Retrofit | 6,735.0 | 9.2% | 619.6 | 0.0707 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with non-electric heating | 78.1% | 5.0% | 0.92 |
| 7029 | Indirect Feedback (Home Energy Reports) - homes with ASHP | MF | All | NC | 9,713.0 | 1.5% | 145.7 | 0.0166 | 0.65 | 1 | \$0.00 | Home energy reports in homes with heat pumps | 21.9% | 0.0% | 5.00 |
| 7030 | Direct (Real Time) Feedback - homes with ASHP | MF | All | NC | 9,713.0 | 9.2% | 893.6 | 0.1020 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with heat pumps | 21.9% | 0.0% | 1.26 |
| 7031 | Indirect Feedback (Home Energy Reports) - homes with gas heating | MF | All | NC | 6,351.0 | 1.5% | 95.3 | 0.0109 | 0.65 | 1 | \$0.00 | Home energy reports in homes with non-electric heating | 78.1% | 0.0% | 5.00 |
| 7032 | Direct (Real Time) Feedback - homes with gas heating | MF | All | NC | 6,351.0 | 9.2% | 584.3 | 0.0667 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with non-electric heating | 78.1% | 0.0% | 0.87 |

Measure Assumptions - Penelec

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|---|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|---|-----------------|---------------|-------------------|
| 1000 | Lighting | | | | | | | | | | | | | | |
| 1001 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | NLI | ROB | 37.4 | 65.8% | 24.6 | 0.029 | 0.10 | 5 | \$0.61 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1481.6% | 0.0% | 12.53 |
| 1002 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | NLI | ROB | 67.9 | 69.7% | 47.3 | 0.056 | 0.10 | 5 | \$1.64 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 282.2% | 0.0% | 7.90 |
| 1003 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | NLI | ROB | 37.4 | 78.5% | 29.3 | 0.035 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1481.6% | 0.0% | 3.61 |
| 1004 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | NLI | ROB | 67.9 | 76.3% | 51.8 | 0.062 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 282.2% | 0.0% | 2.84 |
| 1005 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | NLI | ROB | 34.6 | 75.0% | 25.9 | 0.031 | 0.10 | 5 | \$2.71 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1009.1% | 0.0% | 2.92 |
| 1006 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | NLI | ROB | 64.9 | 68.3% | 44.3 | 0.053 | 0.10 | 5 | \$5.26 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 0.0% | 0.0% | 2.61 |
| 1007 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | NLI | ROB | 34.6 | 83.5% | 28.9 | 0.034 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1009.1% | 0.0% | 2.61 |
| 1008 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | NLI | ROB | 64.9 | 75.2% | 48.8 | 0.058 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 0.0% | 0.0% | 2.44 |
| 1009 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | SFD | NLI | ROB | 37.4 | 78.5% | 29.3 | 0.035 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | 960.7% | 100.0% | 3.61 |
| 1010 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | SFD | NLI | ROB | 67.9 | 76.3% | 51.8 | 0.062 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | 183.0% | 100.0% | 2.84 |
| 1011 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | SFD | NLI | ROB | 34.6 | 83.5% | 28.9 | 0.034 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | 13.5% | 100.0% | 2.61 |
| 1012 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | SFD | NLI | ROB | 64.9 | 75.2% | 48.8 | 0.058 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | 0.0% | 100.0% | 2.44 |
| 1013 | CFL Reflector Replacing 65W/75W Reflector | SFD | NLI | ROB | 58.1 | 74.4% | 43.3 | 0.052 | 0.10 | 5 | \$2.15 | CFL Reflector Replacing 65W/75W Reflector | 409.3% | 0.0% | 7.40 |
| 1014 | LED Reflector Replacing 65W/75W Reflector | SFD | NLI | ROB | 58.1 | 83.8% | 48.7 | 0.058 | 0.10 | 15 | \$9.48 | LED Reflector Replacing 65W/75W Reflector | 409.3% | 0.0% | 5.03 |
| 1015 | LED Reflector Replacing CFL Reflector | SFD | NLI | ROB | 58.1 | 83.8% | 48.7 | 0.058 | 0.10 | 15 | \$9.48 | LED Reflector Replacing CFL Reflector | 76.7% | 100.0% | 5.03 |
| 1016 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | SFD | NLI | ROB | 48.2 | 69.6% | 33.5 | 0.037 | 0.10 | 5 | \$1.35 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | 434.6% | 0.0% | 8.31 |
| 1017 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | SFD | NLI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | 434.6% | 0.0% | 4.16 |
| 1018 | Exterior LED Bulb Replacing Exterior CFL Bulb | SFD | NLI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior CFL Bulb | 110.3% | 100.0% | 4.16 |
| 1019 | Residential Occupancy Sensors | SFD | ALL | Retrofit | 96.5 | 30.0% | 28.9 | 0.028 | 0.10 | 10 | \$63.50 | Residential Occupancy Sensors | 150.0% | 5.0% | 0.19 |
| 1020 | Electroluminescent Nightlight | SFD | NLI | ROB | 29.7 | 99.1% | 29.5 | 0.007 | 0.00 | 8 | \$1.92 | Replaces standard nightlighting with electroluminescent nightlight | 79.0% | 32.0% | 4.72 |
| 1021 | LED Nightlight | SFD | NLI | ROB | 29.7 | 85.7% | 25.5 | 0.006 | 0.00 | 8 | \$2.51 | Replaces standard nightlighting with LED nightlight | 79.0% | 32.0% | 3.12 |
| 1022 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | LI | ROB | 37.4 | 65.8% | 24.6 | 0.029 | 0.10 | 5 | \$0.61 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1481.6% | 0.0% | 12.53 |
| 1023 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | LI | ROB | 67.9 | 69.7% | 47.3 | 0.056 | 0.10 | 5 | \$1.64 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 282.2% | 0.0% | 7.90 |
| 1024 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | LI | ROB | 37.4 | 78.5% | 29.3 | 0.035 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1481.6% | 0.0% | 3.61 |
| 1025 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | LI | ROB | 67.9 | 76.3% | 51.8 | 0.062 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 282.2% | 0.0% | 2.84 |
| 1026 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | LI | ROB | 34.6 | 75.0% | 25.9 | 0.031 | 0.10 | 5 | \$2.71 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1009.1% | 0.0% | 2.92 |
| 1027 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | LI | ROB | 64.9 | 68.3% | 44.3 | 0.053 | 0.10 | 5 | \$5.26 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 0.0% | 0.0% | 2.61 |
| 1028 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | LI | ROB | 34.6 | 83.5% | 28.9 | 0.034 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1009.1% | 0.0% | 2.61 |
| 1029 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | LI | ROB | 64.9 | 75.2% | 48.8 | 0.058 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 0.0% | 0.0% | 2.44 |
| 1030 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | SFD | LI | ROB | 37.4 | 78.5% | 29.3 | 0.035 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | 960.7% | 100.0% | 3.61 |
| 1031 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | SFD | LI | ROB | 67.9 | 76.3% | 51.8 | 0.062 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | 183.0% | 100.0% | 2.84 |
| 1032 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | SFD | LI | ROB | 34.6 | 83.5% | 28.9 | 0.034 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | 13.5% | 100.0% | 2.61 |
| 1033 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | SFD | LI | ROB | 64.9 | 75.2% | 48.8 | 0.058 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | 0.0% | 100.0% | 2.44 |
| 1034 | CFL Reflector Replacing 65W/75W Reflector | SFD | LI | ROB | 58.1 | 74.4% | 43.3 | 0.052 | 0.10 | 5 | \$2.15 | CFL Reflector Replacing 65W/75W Reflector | 409.3% | 0.0% | 7.40 |
| 1035 | LED Reflector Replacing 65W/75W Reflector | SFD | LI | ROB | 58.1 | 83.8% | 48.7 | 0.058 | 0.10 | 15 | \$9.48 | LED Reflector Replacing 65W/75W Reflector | 409.3% | 0.0% | 5.03 |
| 1036 | LED Reflector Replacing CFL Reflector | SFD | LI | ROB | 58.1 | 83.8% | 48.7 | 0.058 | 0.10 | 15 | \$9.48 | LED Reflector Replacing CFL Reflector | 76.7% | 100.0% | 5.03 |
| 1037 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | SFD | LI | ROB | 48.2 | 69.6% | 33.5 | 0.037 | 0.10 | 5 | \$1.35 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | 434.6% | 0.0% | 8.31 |
| 1038 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | SFD | LI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | 434.6% | 0.0% | 4.16 |
| 1039 | Exterior LED Bulb Replacing Exterior CFL Bulb | SFD | LI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior CFL Bulb | 110.3% | 100.0% | 4.16 |
| 1040 | LED Nightlight | SFD | LI | ROB | 29.7 | 85.7% | 25.5 | 0.006 | 0.00 | 8 | \$2.51 | Replaces standard nightlighting with LED nightlight | 79.0% | 32.0% | 3.12 |
| 1041 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | ALL | NC | 37.4 | 65.8% | 24.6 | 0.029 | 0.10 | 5 | \$0.61 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 2457.0% | 0.0% | 12.53 |

Measure Assumptions - Penelec

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|---|--------------------------|---------------|-------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|---|-----------------|---------------|-------------------|
| 1042 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | ALL | NC | 67.9 | 69.7% | 47.3 | 0.056 | 0.10 | 5 | \$1.64 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 468.0% | 0.0% | 7.90 |
| 1043 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | ALL | NC | 37.4 | 78.5% | 29.3 | 0.035 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 2457.0% | 0.0% | 3.61 |
| 1044 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | ALL | NC | 67.9 | 76.3% | 51.8 | 0.062 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 468.0% | 0.0% | 2.84 |
| 1045 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | ALL | NC | 34.6 | 75.0% | 25.9 | 0.031 | 0.10 | 5 | \$2.71 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1035.0% | 0.0% | 2.92 |
| 1046 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | ALL | NC | 64.9 | 68.3% | 44.3 | 0.053 | 0.10 | 5 | \$5.26 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 0.0% | 0.0% | 2.61 |
| 1047 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | ALL | NC | 34.6 | 83.5% | 28.9 | 0.034 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1035.0% | 0.0% | 2.61 |
| 1048 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | ALL | NC | 64.9 | 75.2% | 48.8 | 0.058 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 0.0% | 0.0% | 2.44 |
| 1049 | CFL Reflector Replacing 65W/75W Reflector | SFD | ALL | NC | 58.1 | 74.4% | 43.3 | 0.052 | 0.10 | 5 | \$2.15 | CFL Reflector Replacing 65W/75W Reflector | 540.0% | 0.0% | 7.40 |
| 1050 | LED Reflector Replacing 65W/75W Reflector | SFD | ALL | NC | 58.1 | 83.8% | 48.7 | 0.058 | 0.10 | 15 | \$9.48 | LED Reflector Replacing 65W/75W Reflector | 540.0% | 0.0% | 5.03 |
| 1051 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | SFD | ALL | NC | 48.2 | 69.6% | 33.5 | 0.037 | 0.10 | 5 | \$1.35 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | 560.0% | 0.0% | 8.31 |
| 1052 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | SFD | ALL | NC | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | 560.0% | 0.0% | 4.16 |
| 1053 | Residential Occupancy Sensors | SFD | ALL | NC | 96.5 | 30.0% | 28.9 | 0.028 | 0.10 | 10 | \$63.50 | Residential Occupancy Sensors | 150.0% | 0.0% | 0.19 |
| 1054 | Electroluminescent Nightlight | SFD | ALL | NC | 29.7 | 99.1% | 29.5 | 0.007 | 0.00 | 8 | \$1.92 | Replaces standard nightlighting with electroluminescent nightlight | 79.0% | 0.0% | 4.72 |
| 1055 | LED Nightlight | SFD | ALL | NC | 29.7 | 85.7% | 25.5 | 0.006 | 0.00 | 8 | \$2.51 | Replaces standard nightlighting with LED nightlight | 79.0% | 0.0% | 3.12 |
| 1056 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | NLI | ROB | 37.4 | 65.8% | 24.6 | 0.029 | 0.10 | 5 | \$0.61 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 995.4% | 0.0% | 12.53 |
| 1057 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | NLI | ROB | 67.9 | 69.7% | 47.3 | 0.056 | 0.10 | 5 | \$1.64 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 148.7% | 0.0% | 7.90 |
| 1058 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | NLI | ROB | 37.4 | 78.5% | 29.3 | 0.035 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 995.4% | 0.0% | 3.61 |
| 1059 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | NLI | ROB | 67.9 | 76.3% | 51.8 | 0.062 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 148.7% | 0.0% | 2.84 |
| 1060 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | NLI | ROB | 34.6 | 75.0% | 25.9 | 0.031 | 0.10 | 5 | \$2.71 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 540.5% | 0.0% | 2.92 |
| 1061 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | NLI | ROB | 64.9 | 68.3% | 44.3 | 0.053 | 0.10 | 5 | \$5.26 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 22.5% | 0.0% | 2.61 |
| 1062 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | NLI | ROB | 34.6 | 83.5% | 28.9 | 0.034 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 540.5% | 0.0% | 2.61 |
| 1063 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | NLI | ROB | 64.9 | 75.2% | 48.8 | 0.058 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 22.5% | 0.0% | 2.44 |
| 1064 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | SFA | NLI | ROB | 37.4 | 78.5% | 29.3 | 0.035 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | 645.5% | 100.0% | 3.61 |
| 1065 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | SFA | NLI | ROB | 67.9 | 76.3% | 51.8 | 0.062 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | 96.4% | 100.0% | 2.84 |
| 1066 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | SFA | NLI | ROB | 34.6 | 83.5% | 28.9 | 0.034 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | 7.2% | 100.0% | 2.61 |
| 1067 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | SFA | NLI | ROB | 64.9 | 75.2% | 48.8 | 0.058 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | 0.3% | 100.0% | 2.44 |
| 1068 | CFL Reflector Replacing 65W/75W Reflector | SFA | NLI | ROB | 58.1 | 74.4% | 43.3 | 0.052 | 0.10 | 5 | \$2.15 | CFL Reflector Replacing 65W/75W Reflector | 208.5% | 0.0% | 7.40 |
| 1069 | LED Reflector Replacing 65W/75W Reflector | SFA | NLI | ROB | 58.1 | 83.8% | 48.7 | 0.058 | 0.10 | 15 | \$9.48 | LED Reflector Replacing 65W/75W Reflector | 208.5% | 0.0% | 5.03 |
| 1070 | LED Reflector Replacing CFL Reflector | SFA | NLI | ROB | 58.1 | 83.8% | 48.7 | 0.058 | 0.10 | 15 | \$9.48 | LED Reflector Replacing CFL Reflector | 39.1% | 100.0% | 5.03 |
| 1071 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | SFA | NLI | ROB | 48.2 | 69.6% | 33.5 | 0.037 | 0.10 | 5 | \$1.35 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | 124.2% | 0.0% | 8.31 |
| 1072 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | SFA | NLI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | 124.2% | 0.0% | 4.16 |
| 1073 | Exterior LED Bulb Replacing Exterior CFL Bulb | SFA | NLI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior CFL Bulb | 31.5% | 100.0% | 4.16 |
| 1074 | Residential Occupancy Sensors | SFA | ALL | Retrofit | 96.5 | 30.0% | 28.9 | 0.028 | 0.10 | 10 | \$63.50 | Residential Occupancy Sensors | 150.0% | 5.0% | 0.19 |
| 1075 | Electroluminescent Nightlight | SFA | NLI | ROB | 29.7 | 99.1% | 29.5 | 0.007 | 0.00 | 8 | \$1.92 | Replaces standard nightlighting with electroluminescent nightlight | 42.0% | 32.0% | 4.72 |
| 1076 | LED Nightlight | SFA | NLI | ROB | 29.7 | 85.7% | 25.5 | 0.006 | 0.00 | 8 | \$2.51 | Replaces standard nightlighting with LED nightlight | 42.0% | 32.0% | 3.12 |
| 1077 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | LI | ROB | 37.4 | 65.8% | 24.6 | 0.029 | 0.10 | 5 | \$0.61 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 995.4% | 0.0% | 12.53 |
| 1078 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | LI | ROB | 67.9 | 69.7% | 47.3 | 0.056 | 0.10 | 5 | \$1.64 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 148.7% | 0.0% | 7.90 |
| 1079 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | LI | ROB | 37.4 | 78.5% | 29.3 | 0.035 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 995.4% | 0.0% | 3.61 |
| 1080 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | LI | ROB | 67.9 | 76.3% | 51.8 | 0.062 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 148.7% | 0.0% | 2.84 |
| 1081 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | LI | ROB | 34.6 | 75.0% | 25.9 | 0.031 | 0.10 | 5 | \$2.71 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 540.5% | 0.0% | 2.92 |

Measure Assumptions - Penelec

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|---|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|---|-----------------|---------------|-------------------|
| 1082 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | LI | ROB | 64.9 | 68.3% | 44.3 | 0.053 | 0.10 | 5 | \$5.26 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 22.5% | 0.0% | 2.61 |
| 1083 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | LI | ROB | 34.6 | 83.5% | 28.9 | 0.034 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 540.5% | 0.0% | 2.61 |
| 1084 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | LI | ROB | 64.9 | 75.2% | 48.8 | 0.058 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 22.5% | 0.0% | 2.44 |
| 1085 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | SFA | LI | ROB | 37.4 | 78.5% | 29.3 | 0.035 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | 645.5% | 100.0% | 3.61 |
| 1086 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | SFA | LI | ROB | 67.9 | 76.3% | 51.8 | 0.062 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | 96.4% | 100.0% | 2.84 |
| 1087 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | SFA | LI | ROB | 34.6 | 83.5% | 28.9 | 0.034 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | 7.2% | 100.0% | 2.61 |
| 1088 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | SFA | LI | ROB | 64.9 | 75.2% | 48.8 | 0.058 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | 0.3% | 100.0% | 2.44 |
| 1089 | CFL Reflector Replacing 65W/75W Reflector | SFA | LI | ROB | 58.1 | 74.4% | 43.3 | 0.052 | 0.10 | 5 | \$2.15 | CFL Reflector Replacing 65W/75W Reflector | 208.5% | 0.0% | 7.40 |
| 1090 | LED Reflector Replacing 65W/75W Reflector | SFA | LI | ROB | 58.1 | 83.8% | 48.7 | 0.058 | 0.10 | 15 | \$9.48 | LED Reflector Replacing 65W/75W Reflector | 208.5% | 0.0% | 5.03 |
| 1091 | LED Reflector Replacing CFL Reflector | SFA | LI | ROB | 58.1 | 83.8% | 48.7 | 0.058 | 0.10 | 15 | \$9.48 | LED Reflector Replacing CFL Reflector | 39.1% | 100.0% | 5.03 |
| 1092 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | SFA | LI | ROB | 48.2 | 69.6% | 33.5 | 0.037 | 0.10 | 5 | \$1.35 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | 124.2% | 0.0% | 8.31 |
| 1093 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | SFA | LI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | 124.2% | 0.0% | 4.16 |
| 1094 | Exterior LED Bulb Replacing Exterior CFL Bulb | SFA | LI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior CFL Bulb | 31.5% | 100.0% | 4.16 |
| 1095 | LED Nightlight | SFA | LI | ROB | 29.7 | 85.7% | 25.5 | 0.006 | 0.00 | 8 | \$2.51 | Replaces standard nightlighting with LED nightlight | 42.0% | 32.0% | 3.12 |
| 1096 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | ALL | NC | 37.4 | 65.8% | 24.6 | 0.029 | 0.10 | 5 | \$0.61 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1650.8% | 0.0% | 12.53 |
| 1097 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | ALL | NC | 67.9 | 69.7% | 47.3 | 0.056 | 0.10 | 5 | \$1.64 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 246.7% | 0.0% | 7.90 |
| 1098 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | ALL | NC | 37.4 | 78.5% | 29.3 | 0.035 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1650.8% | 0.0% | 3.61 |
| 1099 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | ALL | NC | 67.9 | 76.3% | 51.8 | 0.062 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 246.7% | 0.0% | 2.84 |
| 1100 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | ALL | NC | 34.6 | 75.0% | 25.9 | 0.031 | 0.10 | 5 | \$2.71 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 554.4% | 0.0% | 2.92 |
| 1101 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | ALL | NC | 64.9 | 68.3% | 44.3 | 0.053 | 0.10 | 5 | \$5.26 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 23.1% | 0.0% | 2.61 |
| 1102 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | ALL | NC | 34.6 | 83.5% | 28.9 | 0.034 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 554.4% | 0.0% | 2.61 |
| 1103 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | ALL | NC | 64.9 | 75.2% | 48.8 | 0.058 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 23.1% | 0.0% | 2.44 |
| 1104 | CFL Reflector Replacing 65W/75W Reflector | SFA | ALL | NC | 58.1 | 74.4% | 43.3 | 0.052 | 0.10 | 5 | \$2.15 | CFL Reflector Replacing 65W/75W Reflector | 275.0% | 0.0% | 7.40 |
| 1105 | LED Reflector Replacing 65W/75W Reflector | SFA | ALL | NC | 58.1 | 83.8% | 48.7 | 0.058 | 0.10 | 15 | \$9.48 | LED Reflector Replacing 65W/75W Reflector | 275.0% | 0.0% | 5.03 |
| 1106 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | SFA | ALL | NC | 48.2 | 69.6% | 33.5 | 0.037 | 0.10 | 5 | \$1.35 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | 160.0% | 0.0% | 8.31 |
| 1107 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | SFA | ALL | NC | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | 124.2% | 0.0% | 4.16 |
| 1108 | Residential Occupancy Sensors | SFA | ALL | NC | 96.5 | 30.0% | 28.9 | 0.028 | 0.10 | 10 | \$63.50 | Residential Occupancy Sensors | 150.0% | 0.0% | 0.19 |
| 1109 | Electroluminescent Nightlight | SFA | ALL | NC | 29.7 | 99.1% | 29.5 | 0.007 | 0.00 | 8 | \$1.92 | Replaces standard nightlighting with electroluminescent nightlight | 42.0% | 0.0% | 4.72 |
| 1110 | LED Nightlight | SFA | ALL | NC | 29.7 | 85.7% | 25.5 | 0.006 | 0.00 | 8 | \$2.51 | Replaces standard nightlighting with LED nightlight | 42.0% | 0.0% | 3.12 |
| 1111 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | NLI | ROB | 37.4 | 65.8% | 24.6 | 0.029 | 0.10 | 5 | \$0.61 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 622.3% | 0.0% | 12.53 |
| 1112 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | NLI | ROB | 67.9 | 69.7% | 47.3 | 0.056 | 0.10 | 5 | \$1.64 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 101.3% | 0.0% | 7.90 |
| 1113 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | NLI | ROB | 37.4 | 78.5% | 29.3 | 0.035 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 622.3% | 0.0% | 3.61 |
| 1114 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | NLI | ROB | 67.9 | 76.3% | 51.8 | 0.062 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 101.3% | 0.0% | 2.84 |
| 1115 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | NLI | ROB | 34.6 | 75.0% | 25.9 | 0.031 | 0.10 | 5 | \$2.71 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 231.7% | 0.0% | 2.92 |
| 1116 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | NLI | ROB | 64.9 | 68.3% | 44.3 | 0.053 | 0.10 | 5 | \$5.26 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 2.3% | 0.0% | 2.61 |
| 1117 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | NLI | ROB | 34.6 | 83.5% | 28.9 | 0.034 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 231.7% | 0.0% | 2.61 |
| 1118 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | NLI | ROB | 64.9 | 75.2% | 48.8 | 0.058 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 2.3% | 0.0% | 2.44 |
| 1119 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | MF | NLI | ROB | 37.4 | 78.5% | 29.3 | 0.035 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | 403.5% | 100.0% | 3.61 |
| 1120 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | MF | NLI | ROB | 67.9 | 76.3% | 51.8 | 0.062 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | 65.7% | 100.0% | 2.84 |
| 1121 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | MF | NLI | ROB | 34.6 | 83.5% | 28.9 | 0.034 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | 3.1% | 100.0% | 2.61 |

Measure Assumptions - Penelec

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|---|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|---|-----------------|---------------|-------------------|
| 1122 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | MF | NLI | ROB | 64.9 | 75.2% | 48.8 | 0.058 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | 0.0% | 100.0% | 2.44 |
| 1123 | CFL Reflector Replacing 65W/75W Reflector | MF | NLI | ROB | 58.1 | 74.4% | 43.3 | 0.052 | 0.10 | 5 | \$2.15 | CFL Reflector Replacing 65W/75W Reflector | 45.5% | 0.0% | 7.40 |
| 1124 | LED Reflector Replacing 65W/75W Reflector | MF | NLI | ROB | 58.1 | 83.8% | 48.7 | 0.058 | 0.10 | 15 | \$9.48 | LED Reflector Replacing 65W/75W Reflector | 45.5% | 0.0% | 5.03 |
| 1125 | LED Reflector Replacing CFL Reflector | MF | NLI | ROB | 58.1 | 83.8% | 48.7 | 0.058 | 0.10 | 15 | \$9.48 | LED Reflector Replacing CFL Reflector | 8.5% | 100.0% | 5.03 |
| 1126 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | MF | NLI | ROB | 48.2 | 69.6% | 33.5 | 0.037 | 0.10 | 5 | \$1.35 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | 62.1% | 0.0% | 8.31 |
| 1127 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | MF | NLI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | 62.1% | 0.0% | 4.16 |
| 1128 | Exterior LED Bulb Replacing Exterior CFL Bulb | MF | NLI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior CFL Bulb | 15.8% | 100.0% | 4.16 |
| 1129 | Residential Occupancy Sensors | MF | ALL | Retrofit | 96.5 | 30.0% | 28.9 | 0.028 | 0.10 | 10 | \$63.50 | Residential Occupancy Sensors | 100.0% | 5.0% | 0.19 |
| 1130 | Electroluminescent Nightlight | MF | NLI | ROB | 29.7 | 99.1% | 29.5 | 0.007 | 0.00 | 8 | \$1.92 | Replaces standard nightlighting with electroluminescent nightlight | 18.0% | 32.0% | 4.72 |
| 1131 | LED Nightlight | MF | NLI | ROB | 29.7 | 85.7% | 25.5 | 0.006 | 0.00 | 8 | \$2.51 | Replaces standard nightlighting with LED nightlight | 18.0% | 32.0% | 3.12 |
| 1132 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | LI | ROB | 37.4 | 65.8% | 24.6 | 0.029 | 0.10 | 5 | \$0.61 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 622.3% | 0.0% | 12.53 |
| 1133 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | LI | ROB | 67.9 | 69.7% | 47.3 | 0.056 | 0.10 | 5 | \$1.64 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 101.3% | 0.0% | 7.90 |
| 1134 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | LI | ROB | 37.4 | 78.5% | 29.3 | 0.035 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 622.3% | 0.0% | 3.61 |
| 1135 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | LI | ROB | 67.9 | 76.3% | 51.8 | 0.062 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 101.3% | 0.0% | 2.84 |
| 1136 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | LI | ROB | 34.6 | 75.0% | 25.9 | 0.031 | 0.10 | 5 | \$2.71 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 231.7% | 0.0% | 2.92 |
| 1137 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | LI | ROB | 64.9 | 68.3% | 44.3 | 0.053 | 0.10 | 5 | \$5.26 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 2.3% | 0.0% | 2.61 |
| 1138 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | LI | ROB | 34.6 | 83.5% | 28.9 | 0.034 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 231.7% | 0.0% | 2.61 |
| 1139 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | LI | ROB | 64.9 | 75.2% | 48.8 | 0.058 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 2.3% | 0.0% | 2.44 |
| 1140 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | MF | LI | ROB | 37.4 | 78.5% | 29.3 | 0.035 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | 403.5% | 100.0% | 3.61 |
| 1141 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | MF | LI | ROB | 67.9 | 76.3% | 51.8 | 0.062 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | 65.7% | 100.0% | 2.84 |
| 1142 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | MF | LI | ROB | 34.6 | 83.5% | 28.9 | 0.034 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | 3.1% | 100.0% | 2.61 |
| 1143 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | MF | LI | ROB | 64.9 | 75.2% | 48.8 | 0.058 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | 0.0% | 100.0% | 2.44 |
| 1144 | CFL Reflector Replacing 65W/75W Reflector | MF | LI | ROB | 58.1 | 74.4% | 43.3 | 0.052 | 0.10 | 5 | \$2.15 | CFL Reflector Replacing 65W/75W Reflector | 45.5% | 0.0% | 7.40 |
| 1145 | LED Reflector Replacing 65W/75W Reflector | MF | LI | ROB | 58.1 | 83.8% | 48.7 | 0.058 | 0.10 | 15 | \$9.48 | LED Reflector Replacing 65W/75W Reflector | 45.5% | 0.0% | 5.03 |
| 1146 | LED Reflector Replacing CFL Reflector | MF | LI | ROB | 58.1 | 83.8% | 48.7 | 0.058 | 0.10 | 15 | \$9.48 | LED Reflector Replacing CFL Reflector | 8.5% | 100.0% | 5.03 |
| 1147 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | MF | LI | ROB | 48.2 | 69.6% | 33.5 | 0.037 | 0.10 | 5 | \$1.35 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | 62.1% | 0.0% | 8.31 |
| 1148 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | MF | LI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | 62.1% | 0.0% | 4.16 |
| 1149 | Exterior LED Bulb Replacing Exterior CFL Bulb | MF | LI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior CFL Bulb | 15.8% | 100.0% | 4.16 |
| 1150 | LED Nightlight | MF | LI | ROB | 29.7 | 85.7% | 25.5 | 0.006 | 0.00 | 8 | \$2.51 | Replaces standard nightlighting with LED nightlight | 18.0% | 32.0% | 3.12 |
| 1151 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | ALL | NC | 37.4 | 65.8% | 24.6 | 0.029 | 0.10 | 5 | \$0.61 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1032.0% | 0.0% | 12.53 |
| 1152 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | ALL | NC | 67.9 | 69.7% | 47.3 | 0.056 | 0.10 | 5 | \$1.64 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 168.0% | 0.0% | 7.90 |
| 1153 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | ALL | NC | 37.4 | 78.5% | 29.3 | 0.035 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1032.0% | 0.0% | 3.61 |
| 1154 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | ALL | NC | 67.9 | 76.3% | 51.8 | 0.062 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 168.0% | 0.0% | 2.84 |
| 1155 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | ALL | NC | 34.6 | 75.0% | 25.9 | 0.031 | 0.10 | 5 | \$2.71 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 237.6% | 0.0% | 2.92 |
| 1156 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | ALL | NC | 64.9 | 68.3% | 44.3 | 0.053 | 0.10 | 5 | \$5.26 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 2.4% | 0.0% | 2.61 |
| 1157 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | ALL | NC | 34.6 | 83.5% | 28.9 | 0.034 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 237.6% | 0.0% | 2.61 |
| 1158 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | ALL | NC | 64.9 | 75.2% | 48.8 | 0.058 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 2.4% | 0.0% | 2.44 |
| 1159 | CFL Reflector Replacing 65W/75W Reflector | MF | ALL | NC | 58.1 | 74.4% | 43.3 | 0.052 | 0.10 | 5 | \$2.15 | CFL Reflector Replacing 65W/75W Reflector | 60.0% | 0.0% | 7.40 |
| 1160 | LED Reflector Replacing 65W/75W Reflector | MF | ALL | NC | 58.1 | 83.8% | 48.7 | 0.058 | 0.10 | 15 | \$9.48 | LED Reflector Replacing 65W/75W Reflector | 60.0% | 0.0% | 5.03 |
| 1161 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | MF | ALL | NC | 48.2 | 69.6% | 33.5 | 0.037 | 0.10 | 5 | \$1.35 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | 80.0% | 0.0% | 8.31 |
| 1162 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | MF | ALL | NC | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | 80.0% | 0.0% | 4.16 |
| 1163 | Residential Occupancy Sensors | MF | ALL | NC | 96.5 | 30.0% | 28.9 | 0.028 | 0.10 | 10 | \$63.50 | Residential Occupancy Sensors | 150.0% | 0.0% | 0.19 |

Measure Assumptions - Penelec

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|---|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|--|-----------------|---------------|-------------------|
| 1164 | Electroluminescent Nightlight | MF | ALL | NC | 29.7 | 99.1% | 29.5 | 0.007 | 0.00 | 8 | \$1.92 | Replaces standard nightlighting with electroluminescent nightlight | 18.0% | 0.0% | 4.72 |
| 1165 | LED Nightlight | MF | ALL | NC | 29.7 | 85.7% | 25.5 | 0.006 | 0.00 | 8 | \$2.51 | Replaces standard nightlighting with LED nightlight | 18.0% | 0.0% | 3.12 |
| 2000 | HVAC Equipment | | | | | | | | | | | | | | |
| 2001 | Central AC Maintenance (10.4 SEER to 11 SEER) | SFD | NLI | Retrofit | 1,501.0 | 1.2% | 18.0 | 0.074 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of central AC units in homes with central air conditioning | 28.6% | 27.0% | 0.25 |
| 2002 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) | SFD | NLI | ROB | 1,266.0 | 7.1% | 90.0 | 0.140 | 0.65 | 14 | \$1,407.82 | Installation of 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 28.6% | 4.0% | 0.08 |
| 2003 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) | SFD | NLI | ROB | 1,266.0 | 10.2% | 129.0 | 0.197 | 0.65 | 14 | \$2,588.05 | Installation of 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 28.6% | 4.0% | 0.06 |
| 2004 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) - with proper sizing | SFD | NLI | ROB | 1,266.0 | 8.3% | 105.0 | 0.177 | 0.65 | 14 | \$1,319.00 | Installation of properly sized 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 28.6% | 4.0% | 0.10 |
| 2005 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) - with proper sizing | SFD | NLI | ROB | 1,266.0 | 11.3% | 143.0 | 0.236 | 0.65 | 14 | \$2,499.23 | Installation of properly sized 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 28.6% | 4.0% | 0.07 |
| 2006 | Air Source Heat Pump Maintenance (12.3 SEER to 13 SEER / 7.3 hspf to 7.7 hspf) | SFD | NLI | Retrofit | 8,338.0 | 5.6% | 465.0 | 0.107 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of air-source heat pump in homes with air-source heat pumps | 0.7% | 46.0% | 1.51 |
| 2007 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 15 SEER / 8.5 hspf) | SFD | NLI | ROB | 7,281.0 | 3.6% | 262.0 | 0.038 | 0.65 | 12 | \$1,116.43 | Installation of 15 SEER / 8.5 hspf instead of standard air-source heat pump in homes with heat pumps | 0.7% | 4.0% | 0.11 |
| 2008 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 16 SEER / 9.0 hspf) | SFD | NLI | ROB | 7,281.0 | 9.7% | 704.0 | 0.062 | 0.65 | 12 | \$1,381.27 | Installation of 16 SEER / 9.0 hspf instead of standard air-source heat pump in homes with heat pumps | 0.7% | 4.0% | 0.23 |
| 2009 | ENERGY STAR Ground Source Heat Pump (14 SEER / 8.0 hspf to 17.1 EER / 3.6 COP) | SFD | NLI | ROB | 7,281.0 | 13.8% | 1,007.9 | 0.275 | 0.65 | 30 | \$12,709.14 | Installation of 17.1 EER / 3.6 COP ground source heat pump instead of standard air-source heat pump in homes with heat pumps | 0.7% | 4.0% | 0.05 |
| 2010 | ENERGY STAR Ground Source Heat Pump (14 SEER / 8.0 hspf to 17.1 EER / 3.6 COP) - with desuperheater | SFD | NLI | ROB | 7,281.0 | 21.6% | 1,574.9 | 0.275 | 0.65 | 30 | \$12,071.37 | Installation of 17.1 EER / 3.6 COP ground source heat pump (with a desuperheater) instead of standard air-source heat pump in homes with heat pumps | 0.7% | 4.0% | 0.08 |
| 2011 | ENERGY STAR Air Source Heat Pump (Elec Furnace / CAC to 16 SEER / 9.0 hspf) | SFD | NLI | ROB | 18,268.0 | 64.0% | 11,691.0 | 0.146 | 0.65 | 12 | \$3,158.48 | Installation of 16 SEER / 9.0 hspf instead of electric furnace in homes with electric furnaces | 0.9% | 0.0% | 1.52 |
| 2012 | ENERGY STAR Ground Source Heat Pump (Electric Furnace / CAC to 17.1 EER / 3.6 COP) - with desuperheater | SFD | NLI | ROB | 18,268.0 | 64.0% | 11,691.0 | 0.146 | 0.65 | 30 | \$17,454.97 | Installation of 17.1 EER / 3.6 COP ground source heat pump (with a desuperheater) instead of electric furnace in homes with electric furnaces | 0.9% | 0.0% | 0.34 |
| 2013 | High Efficiency Furnace Fan (on existing furnace) - electric heating and central AC | SFD | ALL | Retrofit | 18,268.0 | 2.4% | 446.0 | 0.176 | 0.65 | 18 | \$360.00 | Installation of high efficiency furnace fan on existing furnace in homes with electric furnaces | 5.0% | 34.0% | 0.85 |
| 2014 | High Efficiency Furnace Fan (on existing furnace) - non-electric heating and central AC | SFD | ALL | Retrofit | 1,483.0 | 30.1% | 446.0 | 0.176 | 0.65 | 18 | \$360.00 | Installation of high efficiency furnace fan on existing furnace in homes with non-electric furnaces | 29.0% | 34.0% | 0.85 |
| 2015 | Furnace Whistle - electric heating and central AC | SFD | NLI | Retrofit | 14,031.8 | 0.4% | 61.8 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on electric furnaces in homes with electric forced air heating | 5.0% | 10.0% | 53.62 |
| 2016 | Furnace Whistle - non-electric heating and central AC | SFD | NLI | Retrofit | 1,483.0 | 0.9% | 13.8 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on non-electric furnaces in homes with non-electric forced air heating | 29.0% | 10.0% | 31.62 |
| 2017 | Ductless Mini-Split Heat Pump (16 SEER / 9.0 hspf) - replacing baseboard/room AC | SFD | ALL | ROB | 17,427.0 | 63.9% | 11,142.0 | 1.095 | 0.30 | 15 | \$3,570.80 | Installation of a 16 SEER / 9.0 hspf ductless minisplit heat pump to replace baseboard heating in homes with baseboard heating and room air conditioning | 31.7% | 0.0% | 1.64 |
| 2018 | Ductless Mini-Split Air Conditioner (16 SEER) replacing room AC | SFD | ALL | ROB | 1,392.0 | 23.7% | 330.0 | 1.020 | 0.30 | 15 | \$3,570.80 | Installation of a 16 SEER / 9.0 hspf ductless minisplit air conditioner instead of standard room air conditioner in homes with room air conditioning and any form of electric heating other than baseboard heating | 31.7% | 19.0% | 0.11 |
| 2019 | High Efficiency Room Air Conditioner (11 CEER to 12 CEER) | SFD | NLI | ROB | 1,392.0 | 0.5% | 7.3 | 0.061 | 0.30 | 9 | \$40.00 | Installation of a high efficiency room air conditioner instead of standard room air conditioner in homes with room air conditioning and any form of electric heating other than baseboard heating | 76.9% | 19.0% | 0.29 |
| 2020 | Room AC Retirement | SFD | ALL | Retrofit | 1,408.6 | 9.4% | 133.0 | 0.640 | 0.30 | 4 | \$60.00 | Retirement of supplemental room air conditioners (not primary or secondary) in homes with room air conditioners | 25.0% | 0.0% | 1.21 |
| 2021 | Programmable Thermostat (electric heating and air conditioning) | SFD | NLI | Retrofit | 16,836.2 | 3.5% | 590.3 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with electric heating and air conditioning | 7.5% | 41.0% | 3.48 |
| 2022 | Smart Thermostat (electric heating and air conditioning) | SFD | NLI | Retrofit | 16,836.2 | 10.3% | 1,732.4 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with electric heating and air conditioning | 7.5% | 41.0% | 2.63 |
| 2023 | Programmable Thermostat (non-electric heating and air conditioning) | SFD | NLI | Retrofit | 1,483.0 | 2.0% | 29.7 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with non-electric heating and air conditioning | 73.5% | 41.0% | 0.19 |
| 2024 | Smart Thermostat (non-electric heating and air conditioning) | SFD | NLI | Retrofit | 1,483.0 | 13.0% | 192.3 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with non-electric heating and air conditioning | 73.5% | 41.0% | 0.32 |
| 2025 | Residential Whole House Fan | SFD | ALL | Retrofit | 1,483.0 | 13.5% | 200.0 | 0.000 | 0.65 | 15 | \$533.86 | Installation of residential whole house fan in homes with air conditioning | 81.0% | 9.1% | 0.21 |
| 2026 | Central AC Maintenance (10.4 SEER to 11 SEER) | SFD | LI | Retrofit | 1,501.0 | 1.2% | 18.0 | 0.074 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of central AC units in homes with central air conditioning | 28.6% | 27.0% | 0.25 |

Measure Assumptions - Penelec

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|---|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|---|-----------------|---------------|-------------------|
| 2027 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) | SFD | LI | ROB | 1,266.0 | 7.1% | 90.0 | 0.140 | 0.65 | 14 | \$1,407.82 | Installation of 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 28.6% | 4.0% | 0.08 |
| 2028 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) | SFD | LI | ROB | 1,266.0 | 10.2% | 129.0 | 0.197 | 0.65 | 14 | \$2,588.05 | Installation of 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 28.6% | 4.0% | 0.06 |
| 2029 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) - with proper sizing | SFD | LI | ROB | 1,266.0 | 8.3% | 105.0 | 0.177 | 0.65 | 14 | \$1,319.00 | Installation of properly sized 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 28.6% | 4.0% | 0.10 |
| 2030 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) - with proper sizing | SFD | LI | ROB | 1,266.0 | 11.3% | 143.0 | 0.236 | 0.65 | 14 | \$2,499.23 | Installation of properly sized 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 28.6% | 4.0% | 0.07 |
| 2031 | Air Source Heat Pump Maintenance (12.3 SEER to 13 SEER / 7.3 hspf to 7.7 hspf) | SFD | LI | Retrofit | 8,338.0 | 5.6% | 465.0 | 0.107 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of air-source heat pump in homes with air-source heat pumps | 0.7% | 46.0% | 1.51 |
| 2032 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 15 SEER / 8.5 hspf) | SFD | LI | ROB | 7,281.0 | 3.6% | 262.0 | 0.038 | 0.65 | 12 | \$1,116.43 | Installation of 15 SEER / 8.5 hspf instead of standard air-source heat pump in homes with heat pumps | 0.7% | 4.0% | 0.11 |
| 2033 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 16 SEER / 9.0 hspf) | SFD | LI | ROB | 7,281.0 | 9.7% | 704.0 | 0.062 | 0.65 | 12 | \$1,381.27 | Installation of 16 SEER / 9.0 hspf instead of standard air-source heat pump in homes with heat pumps | 0.7% | 4.0% | 0.23 |
| 2034 | ENERGY STAR Air Source Heat Pump (Elec Furnace / CAC to 16 SEER / 9.0 hspf) | SFD | LI | ROB | 18,268.0 | 64.0% | 11,691.0 | 0.146 | 0.65 | 12 | \$3,158.48 | Installation of 16 SEER / 9.0 hspf instead of electric furnace in homes with electric furnaces | 0.9% | 0.0% | 1.52 |
| 2035 | Furnace Whistle - electric heating and central AC | SFD | LI | Retrofit | 14,031.8 | 0.4% | 61.8 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on electric furnaces in homes with electric forced air heating | 5.0% | 10.0% | 53.01 |
| 2036 | Furnace Whistle - non-electric heating and central AC | SFD | LI | Retrofit | 1,483.0 | 0.9% | 13.8 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on non-electric furnaces in homes with non-electric forced air heating | 29.0% | 10.0% | 30.83 |
| 2037 | High Efficiency Room Air Conditioner (11 CEER to 12 CEER) | SFD | LI | ROB | 1,392.0 | 0.5% | 7.3 | 0.061 | 0.30 | 9 | \$40.00 | Installation of a high efficiency room air conditioner instead of standard room air conditioner in homes with room air conditioning and any form of electric heating other than baseboard heating | 76.9% | 19.0% | 0.29 |
| 2038 | Programmable Thermostat (electric heating and air conditioning) | SFD | LI | Retrofit | 16,836.2 | 3.5% | 590.3 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with electric heating and air conditioning | 7.5% | 41.0% | 3.48 |
| 2039 | Smart Thermostat (electric heating and air conditioning) | SFD | LI | Retrofit | 16,836.2 | 10.3% | 1,732.4 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with electric heating and air conditioning | 7.5% | 41.0% | 2.63 |
| 2040 | Programmable Thermostat (non-electric heating and air conditioning) | SFD | LI | Retrofit | 1,483.0 | 2.0% | 29.7 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with non-electric heating and air conditioning | 73.5% | 41.0% | 0.19 |
| 2041 | Smart Thermostat (non-electric heating and air conditioning) | SFD | LI | Retrofit | 1,483.0 | 13.0% | 192.3 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with non-electric heating and air conditioning | 73.5% | 41.0% | 0.32 |
| 2042 | Central AC Maintenance (10.4 SEER to 11 SEER) | SFA | NLI | Retrofit | 1,386.0 | 1.3% | 18.0 | 0.068 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of central AC units in homes with central air conditioning | 28.6% | 27.0% | 0.23 |
| 2043 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) | SFA | NLI | ROB | 1,146.0 | 7.9% | 91.0 | 0.123 | 0.65 | 14 | \$1,319.00 | Installation of 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 28.6% | 4.0% | 0.08 |
| 2044 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) | SFA | NLI | ROB | 1,146.0 | 11.3% | 129.0 | 0.175 | 0.65 | 14 | \$2,499.23 | Installation of 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 28.6% | 4.0% | 0.06 |
| 2045 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) - with proper sizing | SFA | NLI | ROB | 1,146.0 | 9.5% | 109.0 | 0.148 | 0.65 | 14 | \$1,230.23 | Installation of properly sized 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 28.6% | 4.0% | 0.10 |
| 2046 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) - with proper sizing | SFA | NLI | ROB | 1,146.0 | 12.8% | 147.0 | 0.201 | 0.65 | 14 | \$2,410.41 | Installation of properly sized 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 28.6% | 4.0% | 0.07 |
| 2047 | Air Source Heat Pump Maintenance (12.3 SEER to 13 SEER / 7.3 hspf to 7.7 hspf) | SFA | NLI | Retrofit | 6,542.0 | 6.1% | 399.0 | 0.107 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of air-source heat pump in homes with air-source heat pumps | 0.7% | 46.0% | 1.34 |
| 2048 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 15 SEER / 8.5 hspf) | SFA | NLI | ROB | 5,666.0 | 3.7% | 208.0 | 0.030 | 0.65 | 12 | \$1,004.75 | Installation of 15 SEER / 8.5 hspf instead of standard air-source heat pump in homes with heat pumps | 0.7% | 4.0% | 0.10 |
| 2049 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 16 SEER / 9.0 hspf) | SFA | NLI | ROB | 5,666.0 | 9.9% | 560.0 | 0.053 | 0.65 | 12 | \$1,269.59 | Installation of 16 SEER / 9.0 hspf instead of standard air-source heat pump in homes with heat pumps | 0.7% | 4.0% | 0.20 |
| 2050 | ENERGY STAR Air Source Heat Pump (Elec Furnace / CAC to 16 SEER / 9.0 hspf) | SFA | NLI | ROB | 13,786.0 | 63.0% | 8,680.0 | 0.124 | 0.65 | 12 | \$2,829.74 | Installation of 16 SEER / 9.0 hspf instead of electric furnace in homes with electric furnaces | 0.9% | 0.0% | 1.26 |
| 2051 | High Efficiency Furnace Fan (on existing furnace) - electric heating and central AC | SFA | ALL | Retrofit | 13,786.0 | 3.2% | 446.0 | 0.176 | 0.65 | 18 | \$360.00 | Installation of high efficiency furnace fan on existing furnace in homes with electric furnaces | 5.0% | 34.0% | 0.85 |
| 2052 | High Efficiency Furnace Fan (on existing furnace) - non-electric heating and central AC | SFA | ALL | Retrofit | 1,368.0 | 32.6% | 446.0 | 0.176 | 0.65 | 18 | \$360.00 | Installation of high efficiency furnace fan on existing furnace in homes with non-electric furnaces | 29.0% | 34.0% | 0.85 |
| 2053 | Furnace Whistle - electric heating and central AC | SFA | NLI | Retrofit | 10,713.6 | 0.6% | 61.8 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on electric furnaces in homes with electric forced air heating | 5.0% | 10.0% | 53.62 |
| 2054 | Furnace Whistle - non-electric heating and central AC | SFA | NLI | Retrofit | 1,368.0 | 1.0% | 13.8 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on non-electric furnaces in homes with non-electric forced air heating | 29.0% | 10.0% | 31.62 |
| 2055 | Ductless Mini-Split Heat Pump (16 SEER / 9.0 hspf) - replacing baseboard/room AC | SFA | ALL | ROB | 12,843.0 | 63.3% | 8,130.0 | 1.007 | 0.30 | 15 | \$2,856.64 | Installation of a 16 SEER / 9.0 hspf ductless minisplit heat pump to replace baseboard heating in homes with baseboard heating and room air conditioning | 52.8% | 0.0% | 1.51 |

Measure Assumptions - Penelec

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|--|-----------------|---------------|-------------------|
| 2056 | Ductless Mini-Split Air Conditioner (16 SEER) replacing room AC | SFA | ALL | ROB | 1,432.0 | 36.1% | 517.0 | 1.271 | 0.30 | 15 | \$2,856.64 | Installation of a 16 SEER / 9.0 hspf ductless minisplit air conditioner instead of standard room air conditioner in homes with room air conditioning and any form of electric heating other than baseboard heating | 52.8% | 19.0% | 0.20 |
| 2057 | High Efficiency Room Air Conditioner (11 CEER to 12 CEER) | SFA | NLI | ROB | 1,432.0 | 0.5% | 7.3 | 0.061 | 0.30 | 9 | \$40.00 | Installation of a high efficiency room air conditioner instead of standard room air conditioner in homes with room air conditioning and any form of electric heating other than baseboard heating | 98.7% | 19.0% | 0.29 |
| 2058 | Room AC Retirement | SFA | ALL | Retrofit | 1,452.0 | 9.2% | 133.0 | 0.640 | 0.30 | 4 | \$60.00 | Retirement of supplemental room air conditioners (not primary or secondary) in homes with room air conditioners | 25.0% | 0.0% | 1.21 |
| 2059 | Programmable Thermostat (electric heating and air conditioning) | SFA | NLI | Retrofit | 12,472.5 | 3.5% | 432.9 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with electric heating and air conditioning | 7.5% | 41.0% | 2.55 |
| 2060 | Smart Thermostat (electric heating and air conditioning) | SFA | NLI | Retrofit | 12,472.5 | 10.4% | 1,299.1 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with electric heating and air conditioning | 7.5% | 41.0% | 1.97 |
| 2061 | Programmable Thermostat (non-electric heating and air conditioning) | SFA | NLI | Retrofit | 1,368.0 | 2.0% | 27.4 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with non-electric heating and air conditioning | 73.5% | 41.0% | 0.18 |
| 2062 | Smart Thermostat (non-electric heating and air conditioning) | SFA | NLI | Retrofit | 1,368.0 | 13.3% | 181.6 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with non-electric heating and air conditioning | 73.5% | 41.0% | 0.30 |
| 2063 | Residential Whole House Fan | SFA | ALL | Retrofit | 1,368.0 | 11.2% | 153.0 | 0.000 | 0.65 | 15 | \$533.86 | Installation of residential whole house fan in homes with air conditioning | 81.0% | 9.1% | 0.15 |
| 2064 | Central AC Maintenance (10.4 SEER to 11 SEER) | SFA | LI | Retrofit | 1,386.0 | 1.3% | 18.0 | 0.068 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of central AC units in homes with central air conditioning | 28.6% | 27.0% | 0.23 |
| 2065 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) | SFA | LI | ROB | 1,146.0 | 7.9% | 91.0 | 0.123 | 0.65 | 14 | \$1,319.00 | Installation of 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 28.6% | 4.0% | 0.08 |
| 2066 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) | SFA | LI | ROB | 1,146.0 | 11.3% | 129.0 | 0.175 | 0.65 | 14 | \$2,499.23 | Installation of 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 28.6% | 4.0% | 0.06 |
| 2067 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) - with proper sizing | SFA | LI | ROB | 1,146.0 | 9.5% | 109.0 | 0.148 | 0.65 | 14 | \$1,230.23 | Installation of properly sized 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 28.6% | 4.0% | 0.10 |
| 2068 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) - with proper sizing | SFA | LI | ROB | 1,146.0 | 12.8% | 147.0 | 0.201 | 0.65 | 14 | \$2,410.41 | Installation of properly sized 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 28.6% | 4.0% | 0.07 |
| 2069 | Air Source Heat Pump Maintenance (12.3 SEER to 13 SEER / 7.3 hspf to 7.7 hspf) | SFA | LI | ROB | 6,542.0 | 6.1% | 399.0 | 0.107 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of air-source heat pump in homes with air-source heat pumps | 0.7% | 46.0% | 1.34 |
| 2070 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 15 SEER / 8.5 hspf) | SFA | LI | ROB | 5,666.0 | 3.7% | 208.0 | 0.053 | 0.65 | 12 | \$1,004.75 | Installation of 15 SEER / 8.5 hspf instead of standard air-source heat pump in homes with heat pumps | 0.7% | 4.0% | 0.11 |
| 2071 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 16 SEER / 9.0 hspf) | SFA | LI | ROB | 5,666.0 | 9.9% | 560.0 | 0.053 | 0.65 | 12 | \$1,269.59 | Installation of 16 SEER / 9.0 hspf instead of standard air-source heat pump in homes with heat pumps | 0.7% | 4.0% | 0.20 |
| 2072 | ENERGY STAR Air Source Heat Pump (Elec Furnace / CAC to 16 SEER / 9.0 hspf) | SFA | LI | ROB | 13,786.0 | 63.0% | 8,680.0 | 0.124 | 0.65 | 12 | \$2,829.74 | Installation of 16 SEER / 9.0 hspf instead of electric furnace in homes with electric furnaces | 0.9% | 0.0% | 1.26 |
| 2073 | Furnace Whistle - electric heating and central AC | SFA | LI | Retrofit | 10,713.6 | 0.6% | 61.8 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on electric furnaces in homes with electric forced air heating | 5.0% | 10.0% | 53.62 |
| 2074 | Furnace Whistle - non-electric heating and central AC | SFA | LI | Retrofit | 1,368.0 | 1.0% | 13.8 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on non-electric furnaces in homes with non-electric forced air heating | 29.0% | 10.0% | 31.62 |
| 2075 | High Efficiency Room Air Conditioner (11 CEER to 12 CEER) | SFA | LI | ROB | 1,432.0 | 0.5% | 7.3 | 0.061 | 0.30 | 9 | \$40.00 | Installation of a high efficiency room air conditioner instead of standard room air conditioner in homes with room air conditioning and any form of electric heating other than baseboard heating | 98.7% | 19.0% | 0.29 |
| 2076 | Programmable Thermostat (electric heating and air conditioning) | SFA | LI | Retrofit | 12,472.5 | 3.5% | 432.9 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with electric heating and air conditioning | 7.5% | 41.0% | 2.55 |
| 2077 | Smart Thermostat (electric heating and air conditioning) | SFA | LI | Retrofit | 12,472.5 | 10.4% | 1,299.1 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with electric heating and air conditioning | 7.5% | 41.0% | 1.97 |
| 2078 | Programmable Thermostat (non-electric heating and air conditioning) | SFA | LI | Retrofit | 1,368.0 | 2.0% | 27.4 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with non-electric heating and air conditioning | 73.5% | 41.0% | 0.18 |
| 2079 | Smart Thermostat (non-electric heating and air conditioning) | SFA | LI | Retrofit | 1,368.0 | 13.3% | 181.6 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with non-electric heating and air conditioning | 73.5% | 41.0% | 0.30 |
| 2080 | Central AC Maintenance (10.4 SEER to 11 SEER) | MF | NLI | Retrofit | 1,354.0 | 3.0% | 41.0 | 0.078 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of central AC units in homes with central air conditioning | 28.6% | 27.0% | 0.33 |
| 2081 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) | MF | NLI | ROB | 1,047.0 | 11.3% | 118.0 | 0.103 | 0.65 | 14 | \$1,141.46 | Installation of 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 28.6% | 4.0% | 0.09 |
| 2082 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) | MF | NLI | ROB | 1,047.0 | 16.0% | 167.0 | 0.145 | 0.65 | 14 | \$2,321.59 | Installation of 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 28.6% | 4.0% | 0.07 |
| 2083 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) - with proper sizing | MF | NLI | ROB | 1,047.0 | 13.0% | 136.0 | 0.120 | 0.65 | 14 | \$856.10 | Installation of properly sized 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 28.6% | 4.0% | 0.14 |

Measure Assumptions - Penelec

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|---|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|--|-----------------|---------------|-------------------|
| 2084 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) - with proper sizing | MF | NLI | ROB | 1,047.0 | 17.7% | 185.0 | 0.160 | 0.65 | 14 | \$1,741.19 | Installation of properly sized 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 28.6% | 4.0% | 0.10 |
| 2085 | Air Source Heat Pump Maintenance (12.3 SEER to 13 SEER / 7.3 hspf to 7.7 hspf) | MF | NLI | Retrofit | 2,670.0 | 8.7% | 231.0 | 0.092 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of air-source heat pump in homes with air-source heat pumps | 0.7% | 46.0% | 0.85 |
| 2086 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 15 SEER / 8.5 hspf) | MF | NLI | ROB | 2,272.0 | 3.7% | 83.0 | 0.022 | 0.65 | 12 | \$781.39 | Installation of 15 SEER / 8.5 hspf instead of standard air-source heat pump in homes with heat pumps | 0.7% | 4.0% | 0.05 |
| 2087 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 16 SEER / 9.0 hspf) | MF | NLI | ROB | 2,272.0 | 8.6% | 195.0 | 0.040 | 0.65 | 12 | \$1,046.23 | Installation of 16 SEER / 9.0 hspf instead of standard air-source heat pump in homes with heat pumps | 0.7% | 4.0% | 0.09 |
| 2088 | ENERGY STAR Air Source Heat Pump (Elec Furnace / CAC to 16 SEER / 9.0 hspf) | MF | NLI | ROB | 4,121.0 | 49.6% | 2,044.0 | 0.097 | 0.65 | 12 | \$2,172.26 | Installation of 16 SEER / 9.0 hspf instead of electric furnace in homes with electric furnaces | 0.9% | 0.0% | 0.40 |
| 2089 | High Efficiency Furnace Fan (on existing furnace) - electric heating and central AC | MF | ALL | Retrofit | 4,121.0 | 10.8% | 446.0 | 0.176 | 0.65 | 18 | \$360.00 | Installation of high efficiency furnace fan on existing furnace in homes with electric furnaces | 5.0% | 34.0% | 0.85 |
| 2090 | High Efficiency Furnace Fan (on existing furnace) - non-electric heating and central AC | MF | ALL | Retrofit | 1,313.0 | 34.0% | 446.0 | 0.176 | 0.65 | 18 | \$360.00 | Installation of high efficiency furnace fan on existing furnace in homes with non-electric furnaces | 29.0% | 34.0% | 0.85 |
| 2091 | Furnace Whistle - electric heating and central AC | MF | NLI | Retrofit | 3,559.2 | 1.7% | 61.8 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on electric furnaces in homes with electric forced air heating | 5.0% | 10.0% | 53.62 |
| 2092 | Furnace Whistle - non-electric heating and central AC | MF | NLI | Retrofit | 1,313.0 | 1.1% | 13.8 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on non-electric furnaces in homes with non-electric forced air heating | 29.0% | 10.0% | 31.62 |
| 2093 | Ductless Mini-Split Heat Pump (16 SEER / 9.0 hspf) - replacing baseboard/room AC | MF | ALL | ROB | 3,816.0 | 63.8% | 2,433.0 | 1.032 | 0.30 | 15 | \$1,428.32 | Installation of a 16 SEER / 9.0 hspf ductless minisplit heat pump to replace baseboard heating in homes with baseboard heating and room air conditioning | 59.9% | 0.0% | 1.02 |
| 2094 | Ductless Mini-Split Air Conditioner (16 SEER) replacing room AC | MF | ALL | ROB | 1,321.0 | 52.2% | 690.0 | 1.296 | 0.30 | 15 | \$1,428.32 | Installation of a 16 SEER / 9.0 hspf ductless minisplit air conditioner instead of standard room air conditioner in homes with room air conditioning and any form of electric heating other than baseboard heating | 59.9% | 19.0% | 0.46 |
| 2095 | High Efficiency Room Air Conditioner (11 CEER to 12 CEER) | MF | NLI | ROB | 1,321.0 | 0.6% | 7.3 | 0.061 | 0.30 | 9 | \$40.00 | Installation of a high efficiency room air conditioner instead of standard room air conditioner in homes with room air conditioning and any form of electric heating other than baseboard heating | 83.7% | 19.0% | 0.29 |
| 2096 | Room AC Retirement | MF | ALL | Retrofit | 1,344.8 | 9.9% | 133.0 | 0.640 | 0.30 | 4 | \$60.00 | Retirement of supplemental room air conditioners (not primary or secondary) in homes with room air conditioners | 25.0% | 0.0% | 1.21 |
| 2097 | Programmable Thermostat (electric heating and air conditioning) | MF | NLI | Retrofit | 3,771.3 | 3.2% | 119.0 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with electric heating and air conditioning | 7.5% | 41.0% | 0.70 |
| 2098 | Smart Thermostat (electric heating and air conditioning) | MF | NLI | Retrofit | 3,771.3 | 11.5% | 435.4 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with electric heating and air conditioning | 7.5% | 41.0% | 0.66 |
| 2099 | Programmable Thermostat (non-electric heating and air conditioning) | MF | NLI | Retrofit | 1,313.0 | 2.0% | 26.3 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with non-electric heating and air conditioning | 73.5% | 41.0% | 0.17 |
| 2100 | Smart Thermostat (non-electric heating and air conditioning) | MF | NLI | Retrofit | 1,313.0 | 14.3% | 187.6 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with non-electric heating and air conditioning | 73.5% | 41.0% | 0.31 |
| 2101 | Residential Whole House Fan | MF | ALL | Retrofit | 1,313.0 | 6.0% | 78.8 | 0.000 | 0.65 | 15 | \$533.86 | Installation of residential whole house fan in homes with air conditioning | 81.0% | 9.1% | 0.08 |
| 2102 | Central AC Maintenance (10.4 SEER to 11 SEER) | MF | LI | Retrofit | 1,354.0 | 3.0% | 41.0 | 0.078 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of central AC units in homes with central air conditioning | 28.6% | 27.0% | 0.33 |
| 2103 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) | MF | LI | ROB | 1,047.0 | 11.3% | 118.0 | 0.103 | 0.65 | 14 | \$1,141.46 | Installation of 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 28.6% | 4.0% | 0.09 |
| 2104 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) | MF | LI | ROB | 1,047.0 | 16.0% | 167.0 | 0.145 | 0.65 | 14 | \$2,321.59 | Installation of 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 28.6% | 4.0% | 0.07 |
| 2105 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) - with proper sizing | MF | LI | ROB | 1,047.0 | 13.0% | 136.0 | 0.120 | 0.65 | 14 | \$856.10 | Installation of properly sized 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 28.6% | 4.0% | 0.14 |
| 2106 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) - with proper sizing | MF | LI | ROB | 1,047.0 | 17.7% | 185.0 | 0.160 | 0.65 | 14 | \$1,741.19 | Installation of properly sized 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 28.6% | 4.0% | 0.10 |
| 2107 | Air Source Heat Pump Maintenance (12.3 SEER to 13 SEER / 7.3 hspf to 7.7 hspf) | MF | LI | ROB | 2,670.0 | 8.7% | 231.0 | 0.092 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of air-source heat pump in homes with air-source heat pumps | 0.7% | 46.0% | 0.85 |
| 2108 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 15 SEER / 8.5 hspf) | MF | LI | ROB | 2,272.0 | 3.7% | 83.0 | 0.022 | 0.65 | 12 | \$781.39 | Installation of 15 SEER / 8.5 hspf instead of standard air-source heat pump in homes with heat pumps | 0.7% | 4.0% | 0.05 |
| 2109 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 16 SEER / 9.0 hspf) | MF | LI | ROB | 2,272.0 | 8.6% | 195.0 | 0.040 | 0.65 | 12 | \$1,046.23 | Installation of 16 SEER / 9.0 hspf instead of standard air-source heat pump in homes with heat pumps | 0.7% | 4.0% | 0.09 |
| 2110 | ENERGY STAR Air Source Heat Pump (Elec Furnace / CAC to 16 SEER / 9.0 hspf) | MF | LI | ROB | 4,121.0 | 49.6% | 2,044.0 | 0.097 | 0.65 | 12 | \$2,172.26 | Installation of 16 SEER / 9.0 hspf instead of electric furnace in homes with electric furnaces | 0.9% | 0.0% | 0.40 |
| 2111 | Furnace Whistle - electric heating and central AC | MF | LI | Retrofit | 3,559.2 | 1.7% | 61.8 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on electric furnaces in homes with electric forced air heating | 5.0% | 10.0% | 53.62 |
| 2112 | Furnace Whistle - non-electric heating and central AC | MF | LI | Retrofit | 1,313.0 | 1.1% | 13.8 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on non-electric furnaces in homes with non-electric forced air heating | 29.0% | 10.0% | 31.62 |

Measure Assumptions - Penelec

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|---|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|---|-----------------|---------------|-------------------|
| 2113 | High Efficiency Room Air Conditioner (11 CEER to 12 CEER) | MF | LI | ROB | 1,321.0 | 0.6% | 7.3 | 0.061 | 0.30 | 9 | \$40.00 | Installation of a high efficiency room air conditioner instead of standard room air conditioner in homes with room air conditioning and any form of electric heating other than baseboard heating | 83.7% | 19.0% | 0.29 |
| 2114 | Programmable Thermostat (electric heating and air conditioning) | MF | LI | Retrofit | 3,771.3 | 3.2% | 119.0 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with electric heating and air conditioning | 7.5% | 41.0% | 0.70 |
| 2115 | Smart Thermostat (electric heating and air conditioning) | MF | LI | Retrofit | 3,771.3 | 11.5% | 435.4 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with electric heating and air conditioning | 7.5% | 41.0% | 0.66 |
| 2116 | Programmable Thermostat (non-electric heating and air conditioning) | MF | LI | Retrofit | 1,313.0 | 2.0% | 26.3 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with non-electric heating and air conditioning | 73.5% | 41.0% | 0.17 |
| 2117 | Smart Thermostat (non-electric heating and air conditioning) | MF | LI | Retrofit | 1,313.0 | 14.3% | 187.6 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with non-electric heating and air conditioning | 73.5% | 41.0% | 0.31 |
| 3000 | Domestic Hot Water | | | | | | | | | | | | | | |
| 3001 | Water Heater Temperature Setback | SFD | NLI | Retrofit | 1,966.9 | 7.7% | 151.3 | 0.012 | 1.00 | 4 | \$5.00 | Lowering water heater setpoint from 130 to 120 degrees | 42.1% | 81.6% | 5.67 |
| 3002 | Water Heater Pipe Insulation | SFD | NLI | Retrofit | 3,338.0 | 3.0% | 100.0 | 0.008 | 1.00 | 13 | \$30.00 | Installation of foam insulation on 10 feet of exposed pipe in unconditioned 3/4" thick. | 42.1% | 21.0% | 1.68 |
| 3003 | Low Flow Faucet Aerators - Bathroom | SFD | NLI | Retrofit | 71.2 | 31.9% | 22.7 | 0.003 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in bathroom to replace standard flow aerator | 107.1% | 32.0% | 7.07 |
| 3004 | Low Flow Faucet Aerators - Kitchen | SFD | NLI | Retrofit | 613.3 | 31.9% | 195.9 | 0.026 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in kitchen to replace standard flow aerator | 42.1% | 32.0% | 60.89 |
| 3005 | Low Flow Showerheads | SFD | NLI | Retrofit | 903.2 | 40.0% | 361.3 | 0.029 | 1.00 | 9 | \$6.00 | Installation of low flow showerhead in to replace standard flow showerhead | 77.5% | 26.0% | 22.47 |
| 3006 | Thermostatic Shower Restriction Valve | SFD | ALL | Retrofit | 106.1 | 100.0% | 106.1 | 0.009 | 1.00 | 10 | \$30.00 | Installation of thermostatic restriction valve to reduce hot water usage during shower warm-up in homes with electric water heating | 77.5% | 1.0% | 1.43 |
| 3007 | Drain Water Heat Recovery Device | SFD | NLI | Retrofit | 556.5 | 45.4% | 252.7 | 0.041 | 0.70 | 20 | \$1,022.00 | Installation of a drain water heat recovery device to recapture heated wastewater in homes with electric water heating | 42.1% | 1.0% | 0.15 |
| 3008 | Water Heater Tank Wrap | SFD | NLI | Retrofit | 389.1 | 54.9% | 213.6 | 0.024 | 1.00 | 7 | \$50.00 | Installation of insulated tank wrap to existing residential electric hot water heaters | 42.1% | 5.0% | 1.36 |
| 3009 | Heat Pump Water Heaters (50 - 75 gallon) | SFD | NLI | ROB | 3,005.7 | 45.7% | 1,373.3 | 0.111 | 1.00 | 14 | \$945.00 | Installation of 50-75 gallon heat pump water heater instead of standard storage electric storage water heater | 35.8% | 0.0% | 0.54 |
| 3010 | Solar Water Heaters | SFD | NLI | ROB | 3,005.7 | 48.6% | 1,462.0 | 0.118 | 1.00 | 15 | \$5,384.00 | Installation of solar water heater instead of standard storage electric storage water heater | 35.8% | 0.0% | 0.16 |
| 3011 | Heat Pump Water Heaters (75+ gallon) | SFD | NLI | ROB | 1,449.6 | 2.1% | 30.1 | 0.002 | 1.00 | 14 | \$1,369.00 | Installation of 75+ gallon heat pump water heater instead of standard storage electric storage water heater | 6.3% | 0.0% | 0.01 |
| 3012 | Water Heater Temperature Setback | SFD | LI | Retrofit | 1,966.9 | 7.7% | 151.3 | 0.012 | 1.00 | 4 | \$5.00 | Lowering water heater setpoint from 130 to 120 degrees | 42.1% | 81.6% | 5.67 |
| 3013 | Water Heater Pipe Insulation | SFD | LI | Retrofit | 3,338.0 | 3.0% | 100.0 | 0.008 | 1.00 | 13 | \$30.00 | Installation of foam insulation on 10 feet of exposed pipe in unconditioned 3/4" thick. | 42.1% | 21.0% | 1.68 |
| 3014 | Low Flow Faucet Aerators - Bathroom | SFD | LI | Retrofit | 71.2 | 31.9% | 22.7 | 0.003 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in bathroom to replace standard flow aerator | 107.1% | 32.0% | 7.07 |
| 3015 | Low Flow Faucet Aerators - Kitchen | SFD | LI | Retrofit | 613.3 | 31.9% | 195.9 | 0.026 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in kitchen to replace standard flow aerator | 42.1% | 32.0% | 60.89 |
| 3016 | Low Flow Showerheads | SFD | LI | Retrofit | 903.2 | 40.0% | 361.3 | 0.029 | 1.00 | 9 | \$6.00 | Installation of low flow showerhead in to replace standard flow showerhead | 77.5% | 26.0% | 22.47 |
| 3017 | Drain Water Heat Recovery Device | SFD | LI | Retrofit | 556.5 | 45.4% | 252.7 | 0.041 | 0.70 | 20 | \$1,022.00 | Installation of a drain water heat recovery device to recapture heated wastewater in homes with electric water heating | 42.1% | 1.0% | 0.15 |
| 3018 | Water Heater Tank Wrap | SFD | LI | Retrofit | 389.1 | 54.9% | 213.6 | 0.024 | 1.00 | 7 | \$50.00 | Installation of insulated tank wrap to existing residential electric hot water heaters | 42.1% | 5.0% | 1.36 |
| 3019 | Heat Pump Water Heaters (50 - 75 gallon) | SFD | LI | ROB | 3,005.7 | 45.7% | 1,373.3 | 0.111 | 1.00 | 14 | \$945.00 | Installation of 50-75 gallon heat pump water heater instead of standard storage electric storage water heater | 35.8% | 0.0% | 0.54 |
| 3020 | Solar Water Heaters | SFD | LI | ROB | 3,005.7 | 48.6% | 1,462.0 | 0.118 | 1.00 | 15 | \$5,384.00 | Installation of solar water heater instead of standard storage electric storage water heater | 35.8% | 0.0% | 0.16 |
| 3021 | Heat Pump Water Heaters (75+ gallon) | SFD | LI | ROB | 1,449.6 | 2.1% | 30.1 | 0.002 | 1.00 | 14 | \$1,369.00 | Installation of 75+ gallon heat pump water heater instead of standard storage electric storage water heater | 6.3% | 0.0% | 0.01 |
| 3022 | Water Heater Temperature Setback | SFD | ALL | NC | 1,966.9 | 7.7% | 151.3 | 0.012 | 1.00 | 4 | \$5.00 | Lowering water heater setpoint from 130 to 120 degrees | 42.1% | 0.0% | 5.67 |
| 3023 | Water Heater Pipe Insulation | SFD | ALL | NC | 3,338.0 | 3.0% | 100.0 | 0.008 | 1.00 | 13 | \$30.00 | Installation of foam insulation on 10 feet of exposed pipe in unconditioned 3/4" thick. | 42.1% | 0.0% | 1.68 |
| 3024 | Low Flow Faucet Aerators - Bathroom | SFD | ALL | NC | 71.2 | 31.9% | 22.7 | 0.003 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in bathroom to replace standard flow aerator | 107.1% | 0.0% | 7.07 |
| 3025 | Low Flow Faucet Aerators - Kitchen | SFD | ALL | NC | 613.3 | 31.9% | 195.9 | 0.026 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in kitchen to replace standard flow aerator | 42.1% | 0.0% | 60.89 |
| 3026 | Low Flow Showerheads | SFD | ALL | NC | 903.2 | 40.0% | 361.3 | 0.029 | 1.00 | 9 | \$6.00 | Installation of low flow showerhead in to replace standard flow showerhead | 77.5% | 0.0% | 22.47 |
| 3027 | Thermostatic Shower Restriction Valve | SFD | ALL | NC | 106.1 | 100.0% | 106.1 | 0.009 | 1.00 | 10 | \$30.00 | Installation of thermostatic restriction valve to reduce hot water usage during shower warm-up in homes with electric water heating | 77.5% | 0.0% | 1.43 |

Measure Assumptions - Penelec

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|---|-----------------|---------------|-------------------|
| 3028 | Drain Water Heat Recovery Device | SFD | ALL | NC | 556.5 | 45.4% | 252.7 | 0.041 | 0.70 | 20 | \$1,022.00 | Installation of a drain water heat recovery device to recapture heated wastewater in homes with electric water heating | 42.1% | 0.0% | 0.15 |
| 3029 | Water Heater Tank Wrap | SFD | ALL | NC | 389.1 | 54.9% | 213.6 | 0.024 | 1.00 | 7 | \$50.00 | Installation of insulated tank wrap to existing residential electric hot water heaters | 42.1% | 0.0% | 1.36 |
| 3030 | Heat Pump Water Heaters (50 - 75 gallon) | SFD | ALL | NC | 3,005.7 | 45.7% | 1,373.3 | 0.111 | 1.00 | 14 | \$945.00 | Installation of 50-75 gallon heat pump water heater instead of standard storage electric storage water heater | 35.8% | 0.0% | 0.54 |
| 3031 | Solar Water Heaters | SFD | ALL | NC | 3,005.7 | 48.6% | 1,462.0 | 0.118 | 1.00 | 15 | \$5,384.00 | Installation of solar water heater instead of standard storage electric storage water heater | 35.8% | 0.0% | 0.16 |
| 3032 | Heat Pump Water Heaters (75+ gallon) | SFD | ALL | NC | 1,449.6 | 2.1% | 30.1 | 0.002 | 1.00 | 14 | \$1,369.00 | Installation of 75+ gallon heat pump water heater instead of standard storage electric storage water heater | 6.3% | 0.0% | 0.01 |
| 3033 | Water Heater Temperature Setback | SFA | NLI | Retrofit | 1,966.9 | 7.7% | 151.3 | 0.012 | 1.00 | 4 | \$5.00 | Lowering water heater setpoint from 130 to 120 degrees | 42.1% | 81.6% | 5.67 |
| 3034 | Water Heater Pipe Insulation | SFA | NLI | Retrofit | 3,338.0 | 3.0% | 100.0 | 0.008 | 1.00 | 13 | \$30.00 | Installation of foam insulation on 10 feet of exposed pipe in unconditioned 3/4" thick. | 42.1% | 21.0% | 1.68 |
| 3035 | Low Flow Faucet Aerators - Bathroom | SFA | NLI | Retrofit | 71.2 | 31.9% | 22.7 | 0.003 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in bathroom to replace standard flow aerator | 81.0% | 32.0% | 7.07 |
| 3036 | Low Flow Faucet Aerators - Kitchen | SFA | NLI | Retrofit | 613.3 | 31.9% | 195.9 | 0.026 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in kitchen to replace standard flow aerator | 42.1% | 32.0% | 60.89 |
| 3037 | Low Flow Showerheads | SFA | NLI | Retrofit | 903.2 | 40.0% | 361.3 | 0.029 | 1.00 | 9 | \$6.00 | Installation of low flow showerhead in to replace standard flow showerhead | 71.6% | 26.0% | 22.47 |
| 3038 | Thermostatic Shower Restriction Valve | SFA | ALL | Retrofit | 106.1 | 100.0% | 106.1 | 0.009 | 1.00 | 10 | \$30.00 | Installation of thermostatic restriction valve to reduce hot water usage during shower warm-up in homes with electric water heating | 71.6% | 1.0% | 1.43 |
| 3039 | Drain Water Heat Recovery Device | SFA | NLI | Retrofit | 556.5 | 45.4% | 252.7 | 0.041 | 0.70 | 20 | \$1,022.00 | Installation of a drain water heat recovery device to recapture heated wastewater in homes with electric water heating | 42.1% | 1.0% | 0.15 |
| 3040 | Water Heater Tank Wrap | SFA | NLI | Retrofit | 389.1 | 54.9% | 213.6 | 0.024 | 1.00 | 7 | \$50.00 | Installation of insulated tank wrap to existing residential electric hot water heaters | 42.1% | 5.0% | 1.36 |
| 3041 | Heat Pump Water Heaters (50 - 75 gallon) | SFA | NLI | ROB | 3,005.7 | 45.7% | 1,373.3 | 0.111 | 1.00 | 14 | \$945.00 | Installation of 50-75 gallon heat pump water heater instead of standard storage electric storage water heater | 35.8% | 0.0% | 0.54 |
| 3042 | Solar Water Heaters | SFA | NLI | ROB | 3,005.7 | 48.6% | 1,462.0 | 0.118 | 1.00 | 15 | \$5,384.00 | Installation of solar water heater instead of standard storage electric storage water heater | 35.8% | 0.0% | 0.16 |
| 3043 | Heat Pump Water Heaters (75+ gallon) | SFA | NLI | ROB | 1,449.6 | 2.1% | 30.1 | 0.002 | 1.00 | 14 | \$1,369.00 | Installation of 75+ gallon heat pump water heater instead of standard storage electric storage water heater | 6.3% | 0.0% | 0.01 |
| 3044 | Water Heater Temperature Setback | SFA | LI | Retrofit | 1,966.9 | 7.7% | 151.3 | 0.012 | 1.00 | 4 | \$5.00 | Lowering water heater setpoint from 130 to 120 degrees | 42.1% | 81.6% | 5.67 |
| 3045 | Water Heater Pipe Insulation | SFA | LI | Retrofit | 3,338.0 | 3.0% | 100.0 | 0.008 | 1.00 | 13 | \$30.00 | Installation of foam insulation on 10 feet of exposed pipe in unconditioned 3/4" thick. | 42.1% | 21.0% | 1.68 |
| 3046 | Low Flow Faucet Aerators - Bathroom | SFA | LI | Retrofit | 71.2 | 31.9% | 22.7 | 0.003 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in bathroom to replace standard flow aerator | 81.0% | 32.0% | 7.07 |
| 3047 | Low Flow Faucet Aerators - Kitchen | SFA | LI | Retrofit | 613.3 | 31.9% | 195.9 | 0.026 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in kitchen to replace standard flow aerator | 42.1% | 32.0% | 60.89 |
| 3048 | Low Flow Showerheads | SFA | LI | Retrofit | 903.2 | 40.0% | 361.3 | 0.029 | 1.00 | 9 | \$6.00 | Installation of low flow showerhead in to replace standard flow showerhead | 71.6% | 26.0% | 22.47 |
| 3049 | Drain Water Heat Recovery Device | SFA | LI | Retrofit | 556.5 | 45.4% | 252.7 | 0.041 | 0.70 | 20 | \$1,022.00 | Installation of a drain water heat recovery device to recapture heated wastewater in homes with electric water heating | 42.1% | 1.0% | 0.15 |
| 3050 | Water Heater Tank Wrap | SFA | LI | Retrofit | 389.1 | 54.9% | 213.6 | 0.024 | 1.00 | 7 | \$50.00 | Installation of insulated tank wrap to existing residential electric hot water heaters | 42.1% | 5.0% | 1.36 |
| 3051 | Heat Pump Water Heaters (50 - 75 gallon) | SFA | LI | ROB | 3,005.7 | 45.7% | 1,373.3 | 0.111 | 1.00 | 14 | \$945.00 | Installation of 50-75 gallon heat pump water heater instead of standard storage electric storage water heater | 35.8% | 0.0% | 0.54 |
| 3052 | Solar Water Heaters | SFA | LI | ROB | 3,005.7 | 48.6% | 1,462.0 | 0.118 | 1.00 | 15 | \$5,384.00 | Installation of solar water heater instead of standard storage electric storage water heater | 35.8% | 0.0% | 0.16 |
| 3053 | Heat Pump Water Heaters (75+ gallon) | SFA | LI | ROB | 1,449.6 | 2.1% | 30.1 | 0.002 | 1.00 | 14 | \$1,369.00 | Installation of 75+ gallon heat pump water heater instead of standard storage electric storage water heater | 6.3% | 0.0% | 0.01 |
| 3054 | Water Heater Temperature Setback | SFA | ALL | NC | 1,966.9 | 7.7% | 151.3 | 0.012 | 1.00 | 4 | \$5.00 | Lowering water heater setpoint from 130 to 120 degrees | 42.1% | 0.0% | 5.67 |
| 3055 | Water Heater Pipe Insulation | SFA | ALL | NC | 3,338.0 | 3.0% | 100.0 | 0.008 | 1.00 | 13 | \$30.00 | Installation of foam insulation on 10 feet of exposed pipe in unconditioned 3/4" thick. | 42.1% | 0.0% | 1.68 |
| 3056 | Low Flow Faucet Aerators - Bathroom | SFA | ALL | NC | 71.2 | 31.9% | 22.7 | 0.003 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in bathroom to replace standard flow aerator | 81.0% | 0.0% | 7.07 |
| 3057 | Low Flow Faucet Aerators - Kitchen | SFA | ALL | NC | 613.3 | 31.9% | 195.9 | 0.026 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in kitchen to replace standard flow aerator | 42.1% | 0.0% | 60.89 |
| 3058 | Low Flow Showerheads | SFA | ALL | NC | 903.2 | 40.0% | 361.3 | 0.029 | 1.00 | 9 | \$6.00 | Installation of low flow showerhead in to replace standard flow showerhead | 71.6% | 0.0% | 22.47 |
| 3059 | Thermostatic Shower Restriction Valve | SFA | ALL | NC | 106.1 | 100.0% | 106.1 | 0.009 | 1.00 | 10 | \$30.00 | Installation of thermostatic restriction valve to reduce hot water usage during shower warm-up in homes with electric water heating | 71.6% | 0.0% | 1.43 |
| 3060 | Drain Water Heat Recovery Device | SFA | ALL | NC | 556.5 | 45.4% | 252.7 | 0.041 | 0.70 | 20 | \$1,022.00 | Installation of a drain water heat recovery device to recapture heated wastewater in homes with electric water heating | 42.1% | 0.0% | 0.15 |

Measure Assumptions - Penelec

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|---|-----------------|---------------|-------------------|
| 3061 | Water Heater Tank Wrap | SFA | ALL | NC | 389.1 | 54.9% | 213.6 | 0.024 | 1.00 | 7 | \$50.00 | Installation of insulated tank wrap to existing residential electric hot water heaters | 42.1% | 0.0% | 1.36 |
| 3062 | Heat Pump Water Heaters (50 - 75 gallon) | SFA | ALL | NC | 3,005.7 | 45.7% | 1,373.3 | 0.111 | 1.00 | 14 | \$945.00 | Installation of 50-75 gallon heat pump water heater instead of standard storage electric storage water heater | 35.8% | 0.0% | 0.54 |
| 3063 | Solar Water Heaters | SFA | ALL | NC | 3,005.7 | 48.6% | 1,462.0 | 0.118 | 1.00 | 15 | \$5,384.00 | Installation of solar water heater instead of standard storage electric storage water heater | 35.8% | 0.0% | 0.16 |
| 3064 | Heat Pump Water Heaters (75+ gallon) | SFA | ALL | NC | 1,449.6 | 2.1% | 30.1 | 0.002 | 1.00 | 14 | \$1,369.00 | Installation of 75+ gallon heat pump water heater instead of standard storage electric storage water heater | 6.3% | 0.0% | 0.01 |
| 3065 | Water Heater Temperature Setback | MF | NLI | Retrofit | 1,966.9 | 7.7% | 151.3 | 0.012 | 1.00 | 4 | \$5.00 | Lowering water heater setpoint from 130 to 120 degrees | 42.1% | 81.6% | 5.67 |
| 3066 | Water Heater Pipe Insulation | MF | NLI | Retrofit | 3,338.0 | 3.0% | 100.0 | 0.008 | 1.00 | 13 | \$30.00 | Installation of foam insulation on 10 feet of exposed pipe in unconditioned 3/4" thick. | 42.1% | 21.0% | 1.68 |
| 3067 | Low Flow Faucet Aerators - Bathroom | MF | NLI | Retrofit | 120.7 | 31.9% | 38.5 | 0.005 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in bathroom to replace standard flow aerator | 47.4% | 32.0% | 11.99 |
| 3068 | Low Flow Faucet Aerators - Kitchen | MF | NLI | Retrofit | 485.6 | 31.9% | 155.1 | 0.021 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in kitchen to replace standard flow aerator | 42.1% | 32.0% | 48.21 |
| 3069 | Low Flow Showerheads | MF | NLI | Retrofit | 845.0 | 40.0% | 338.0 | 0.027 | 1.00 | 9 | \$6.00 | Installation of low flow showerhead in to replace standard flow showerhead | 65.6% | 26.0% | 21.02 |
| 3070 | Thermostatic Shower Restriction Valve | MF | ALL | Retrofit | 99.3 | 100.0% | 99.3 | 0.008 | 1.00 | 10 | \$30.00 | Installation of thermostatic restriction valve to reduce hot water usage during shower warm-up in homes with electric water heating | 65.6% | 1.0% | 1.34 |
| 3071 | Drain Water Heat Recovery Device | MF | NLI | Retrofit | 371.0 | 45.4% | 168.4 | 0.027 | 0.70 | 20 | \$1,022.00 | Installation of a drain water heat recovery device to recapture heated wastewater in homes with electric water heating | 42.1% | 1.0% | 0.10 |
| 3072 | Water Heater Tank Wrap | MF | NLI | Retrofit | 389.1 | 54.9% | 213.6 | 0.024 | 1.00 | 7 | \$50.00 | Installation of insulated tank wrap to existing residential electric hot water heaters | 42.1% | 5.0% | 1.36 |
| 3073 | Heat Pump Water Heaters (50 - 75 gallon) | MF | NLI | ROB | 3,005.7 | 45.7% | 1,373.3 | 0.111 | 1.00 | 14 | \$945.00 | Installation of 50-75 gallon heat pump water heater instead of standard storage electric storage water heater | 35.8% | 0.0% | 0.54 |
| 3074 | Solar Water Heaters | MF | NLI | ROB | 3,005.7 | 48.6% | 1,462.0 | 0.118 | 1.00 | 15 | \$5,384.00 | Installation of solar water heater instead of standard storage electric storage water heater | 35.8% | 0.0% | 0.16 |
| 3075 | Heat Pump Water Heaters (75+ gallon) | MF | NLI | ROB | 1,449.6 | 2.1% | 30.1 | 0.002 | 1.00 | 14 | \$1,369.00 | Installation of 75+ gallon heat pump water heater instead of standard storage electric storage water heater | 6.3% | 0.0% | 0.01 |
| 3076 | Water Heater Temperature Setback | MF | LI | Retrofit | 1,966.9 | 7.7% | 151.3 | 0.012 | 1.00 | 4 | \$5.00 | Lowering water heater setpoint from 130 to 120 degrees | 42.1% | 81.6% | 5.67 |
| 3077 | Water Heater Pipe Insulation | MF | LI | Retrofit | 3,338.0 | 3.0% | 100.0 | 0.008 | 1.00 | 13 | \$30.00 | Installation of foam insulation on 10 feet of exposed pipe in unconditioned 3/4" thick. | 42.1% | 21.0% | 1.68 |
| 3078 | Low Flow Faucet Aerators - Bathroom | MF | LI | Retrofit | 120.7 | 31.9% | 38.5 | 0.005 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in bathroom to replace standard flow aerator | 47.4% | 32.0% | 11.99 |
| 3079 | Low Flow Faucet Aerators - Kitchen | MF | LI | Retrofit | 485.6 | 31.9% | 155.1 | 0.021 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in kitchen to replace standard flow aerator | 42.1% | 32.0% | 48.21 |
| 3080 | Low Flow Showerheads | MF | LI | Retrofit | 845.0 | 40.0% | 338.0 | 0.027 | 1.00 | 9 | \$6.00 | Installation of low flow showerhead in to replace standard flow showerhead | 65.6% | 26.0% | 21.02 |
| 3081 | Drain Water Heat Recovery Device | MF | LI | Retrofit | 371.0 | 45.4% | 168.4 | 0.027 | 0.70 | 20 | \$1,022.00 | Installation of a drain water heat recovery device to recapture heated wastewater in homes with electric water heating | 42.1% | 1.0% | 0.10 |
| 3082 | Water Heater Tank Wrap | MF | LI | Retrofit | 389.1 | 54.9% | 213.6 | 0.024 | 1.00 | 7 | \$50.00 | Installation of insulated tank wrap to existing residential electric hot water heaters | 42.1% | 5.0% | 1.36 |
| 3083 | Heat Pump Water Heaters (50 - 75 gallon) | MF | LI | ROB | 3,005.7 | 45.7% | 1,373.3 | 0.111 | 1.00 | 14 | \$945.00 | Installation of 50-75 gallon heat pump water heater instead of standard storage electric storage water heater | 35.8% | 0.0% | 0.54 |
| 3084 | Solar Water Heaters | MF | LI | ROB | 3,005.7 | 48.6% | 1,462.0 | 0.118 | 1.00 | 15 | \$5,384.00 | Installation of solar water heater instead of standard storage electric storage water heater | 35.8% | 0.0% | 0.16 |
| 3085 | Heat Pump Water Heaters (75+ gallon) | MF | LI | ROB | 1,449.6 | 2.1% | 30.1 | 0.002 | 1.00 | 14 | \$1,369.00 | Installation of 75+ gallon heat pump water heater instead of standard storage electric storage water heater | 6.3% | 0.0% | 0.01 |
| 3086 | Water Heater Temperature Setback | MF | ALL | NC | 1,966.9 | 7.7% | 151.3 | 0.012 | 1.00 | 4 | \$5.00 | Lowering water heater setpoint from 130 to 120 degrees | 42.1% | 0.0% | 5.67 |
| 3087 | Water Heater Pipe Insulation | MF | ALL | NC | 3,338.0 | 3.0% | 100.0 | 0.008 | 1.00 | 13 | \$30.00 | Installation of foam insulation on 10 feet of exposed pipe in unconditioned 3/4" thick. | 42.1% | 0.0% | 1.68 |
| 3088 | Low Flow Faucet Aerators - Bathroom | MF | ALL | NC | 120.7 | 31.9% | 38.5 | 0.005 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in bathroom to replace standard flow aerator | 47.4% | 0.0% | 11.99 |
| 3089 | Low Flow Faucet Aerators - Kitchen | MF | ALL | NC | 485.6 | 31.9% | 155.1 | 0.021 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in kitchen to replace standard flow aerator | 42.1% | 0.0% | 48.21 |
| 3090 | Low Flow Showerheads | MF | ALL | NC | 845.0 | 40.0% | 338.0 | 0.027 | 1.00 | 9 | \$6.00 | Installation of low flow showerhead in to replace standard flow showerhead | 65.6% | 0.0% | 21.02 |
| 3091 | Thermostatic Shower Restriction Valve | MF | ALL | NC | 99.3 | 100.0% | 99.3 | 0.008 | 1.00 | 10 | \$30.00 | Installation of thermostatic restriction valve to reduce hot water usage during shower warm-up in homes with electric water heating | 65.6% | 0.0% | 1.34 |
| 3092 | Drain Water Heat Recovery Device | MF | ALL | NC | 371.0 | 45.4% | 168.4 | 0.027 | 0.70 | 20 | \$1,022.00 | Installation of a drain water heat recovery device to recapture heated wastewater in homes with electric water heating | 42.1% | 0.0% | 0.10 |
| 3093 | Water Heater Tank Wrap | MF | ALL | NC | 389.1 | 54.9% | 213.6 | 0.024 | 1.00 | 7 | \$50.00 | Installation of insulated tank wrap to existing residential electric hot water heaters | 42.1% | 0.0% | 1.36 |
| 3094 | Heat Pump Water Heaters (50 - 75 gallon) | MF | ALL | NC | 3,005.7 | 45.7% | 1,373.3 | 0.111 | 1.00 | 14 | \$945.00 | Installation of 50-75 gallon heat pump water heater instead of standard storage electric storage water heater | 35.8% | 0.0% | 0.54 |

Measure Assumptions - Penelec

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|--|-----------------|---------------|-------------------|
| 3095 | Solar Water Heaters | MF | ALL | NC | 3,005.7 | 48.6% | 1,462.0 | 0.118 | 1.00 | 15 | \$5,384.00 | Installation of solar water heater instead of standard storage electric storage water heater | 35.8% | 0.0% | 0.16 |
| 3096 | Heat Pump Water Heaters (75+ gallon) | MF | ALL | NC | 1,449.6 | 2.1% | 30.1 | 0.002 | 1.00 | 14 | \$1,369.00 | Installation of 75+ gallon heat pump water heater instead of standard storage electric storage water heater | 6.3% | 0.0% | 0.01 |
| 4000 | Appliances | | | | | | | | | | | | | | |
| 4001 | Refrigerator Recycling with Replacement | SFD | NLI | Retrofit | 904.2 | 35.5% | 320.9 | 0.036 | 1.00 | 7 | \$120.00 | Retirement and replacement of non-primary refrigerators in homes with more than one refrigerator; replacement unit assumed to be standard efficiency model | 26.0% | 0.0% | 0.85 |
| 4002 | Refrigerator Recycling without Replacement | SFD | NLI | Retrofit | 904.2 | 100.0% | 904.2 | 0.101 | 1.00 | 8 | \$120.00 | Retirement (no replacement) of non-primary refrigerators in homes with more than one refrigerator | 26.0% | 0.0% | 2.66 |
| 4003 | Freezer Recycling with Replacement | SFD | ALL | Retrofit | 1,078.2 | 51.9% | 559.2 | 0.063 | 1.00 | 7 | \$120.00 | Retirement and replacement of non-primary freezers in homes with more than one freezer; replacement unit assumed to be standard efficiency model | 5.0% | 0.0% | 1.48 |
| 4004 | Freezer Recycling without Replacement | SFD | ALL | Retrofit | 1,078.2 | 100.0% | 1,078.2 | 0.121 | 1.00 | 8 | \$120.00 | Retirement (no replacement) of non-primary freezers in homes with more than one refrigerator | 5.0% | 0.0% | 3.18 |
| 4005 | ENERGY STAR Refrigerators (Top-Mount) | SFD | NLI | ROB | 462.2 | 8.2% | 37.9 | 0.004 | 1.00 | 12 | \$21.83 | Installation of ENERGY STAR top-mount refrigerator instead of standard efficiency unit | 59.0% | 34.0% | 0.84 |
| 4006 | ENERGY STAR Refrigerators (Side-by-Side) | SFD | NLI | ROB | 608.9 | 8.6% | 52.5 | 0.006 | 1.00 | 12 | \$57.31 | Installation of ENERGY STAR side-mount refrigerator instead of standard efficiency unit | 22.0% | 34.0% | 0.44 |
| 4007 | ENERGY STAR Refrigerators (Bottom-Mount) | SFD | NLI | ROB | 644.2 | 8.7% | 55.9 | 0.006 | 1.00 | 12 | \$17.29 | Installation of ENERGY STAR bottom-mount refrigerator instead of standard efficiency unit | 10.0% | 34.0% | 1.57 |
| 4008 | ENERGY STAR Freezers (Upright) | SFD | NLI | ROB | 483.2 | 9.1% | 44.0 | 0.005 | 1.00 | 12 | \$6.75 | Installation of ENERGY STAR upright freezers instead of standard efficiency unit | 31.4% | 22.0% | 3.17 |
| 4009 | ENERGY STAR Freezers (Chest) | SFD | NLI | ROB | 290.1 | 10.0% | 29.0 | 0.003 | 1.00 | 12 | \$5.23 | Installation of ENERGY STAR chest freezers instead of standard efficiency unit | 23.7% | 22.0% | 2.69 |
| 4010 | ENERGY STAR Clothes Washers (Electric Water Heating) | SFD | NLI | ROB | 472.1 | 32.9% | 155.2 | 0.621 | 0.029 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 39.7% | 24.0% | 1.42 |
| 4011 | ENERGY STAR Clothes Washers (Gas Water Heating) | SFD | NLI | ROB | 199.6 | 16.5% | 32.8 | 0.131 | 0.029 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with gas water heating | 54.5% | 24.0% | 0.30 |
| 4012 | ENERGY STAR Dishwashers (Electric Water Heating) | SFD | ALL | ROB | 307.0 | 12.1% | 37.0 | 0.158 | 0.026 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with electric water heating | 23.2% | 29.0% | 1.56 |
| 4013 | ENERGY STAR Dishwashers (Gas Water Heating) | SFD | ALL | ROB | 135.1 | 12.1% | 16.3 | 0.070 | 0.026 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with gas water heating | 31.8% | 29.0% | 0.69 |
| 4014 | ENERGY STAR Dehumidifiers | SFD | NLI | ROB | 792.4 | 18.9% | 149.9 | 0.092 | 0.41 | 12 | \$20.21 | Installation of ENERGY STAR dehumidifier instead of standard efficiency unit | 38.3% | 83.9% | 4.24 |
| 4015 | ENERGY STAR Water Coolers | SFD | ALL | ROB | 799.4 | 60.3% | 481.8 | 0.055 | 1.00 | 10 | \$50.00 | Installation of ENERGY STAR water cooler instead of standard efficiency unit | 1.2% | 68.5% | 4.08 |
| 4016 | ENERGY STAR Air Purifier/Cleaner | SFD | ALL | ROB | 587.0 | 66.6% | 391.0 | 0.067 | 1.00 | 9 | \$70.00 | Installation of ENERGY STAR air purifier instead of standard efficiency unit | 18.8% | 33.3% | 2.34 |
| 4017 | ENERGY STAR Dryers | SFD | ALL | ROB | 538.0 | 5.1% | 27.4 | 0.115 | 0.04 | 13 | \$50.00 | Installation of ENERGY STAR dryer instead of standard efficiency unit in homes with electric dryers | 61.8% | 25.0% | 0.31 |
| 4018 | Refrigerator Recycling with Replacement | SFD | LI | Retrofit | 904.2 | 35.5% | 320.9 | 0.036 | 1.00 | 7 | \$120.00 | Retirement and replacement of non-primary refrigerators in homes with more than one refrigerator; replacement unit assumed to be standard efficiency model | 26.0% | 0.0% | 0.85 |
| 4019 | Refrigerator Recycling without Replacement | SFD | LI | Retrofit | 904.2 | 100.0% | 904.2 | 0.101 | 1.00 | 8 | \$120.00 | Retirement (no replacement) of non-primary refrigerators in homes with more than one refrigerator | 26.0% | 0.0% | 2.66 |
| 4020 | ENERGY STAR Refrigerators (Top-Mount) | SFD | LI | ROB | 462.2 | 8.2% | 37.9 | 0.004 | 1.00 | 12 | \$21.83 | Installation of ENERGY STAR top-mount refrigerator instead of standard efficiency unit | 59.0% | 34.0% | 0.84 |
| 4021 | ENERGY STAR Refrigerators (Side-by-Side) | SFD | LI | ROB | 608.9 | 8.6% | 52.5 | 0.006 | 1.00 | 12 | \$57.31 | Installation of ENERGY STAR side-mount refrigerator instead of standard efficiency unit | 22.0% | 34.0% | 0.44 |
| 4022 | ENERGY STAR Refrigerators (Bottom-Mount) | SFD | LI | ROB | 644.2 | 8.7% | 55.9 | 0.006 | 1.00 | 12 | \$17.29 | Installation of ENERGY STAR bottom-mount refrigerator instead of standard efficiency unit | 10.0% | 34.0% | 1.57 |
| 4023 | ENERGY STAR Freezers (Upright) | SFD | LI | ROB | 483.2 | 9.1% | 44.0 | 0.005 | 1.00 | 12 | \$6.75 | Installation of ENERGY STAR upright freezers instead of standard efficiency unit | 31.4% | 22.0% | 3.17 |
| 4024 | ENERGY STAR Freezers (Chest) | SFD | LI | ROB | 290.1 | 10.0% | 29.0 | 0.003 | 1.00 | 12 | \$5.23 | Installation of ENERGY STAR chest freezers instead of standard efficiency unit | 23.7% | 22.0% | 2.69 |
| 4025 | ENERGY STAR Clothes Washers (Electric Water Heating) | SFD | LI | ROB | 472.1 | 32.9% | 155.2 | 0.621 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 39.7% | 24.0% | 1.42 |
| 4026 | ENERGY STAR Clothes Washers (Gas Water Heating) | SFD | LI | ROB | 199.6 | 16.5% | 32.8 | 0.131 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with gas water heating | 54.5% | 24.0% | 0.30 |
| 4027 | ENERGY STAR Dehumidifiers | SFD | LI | ROB | 792.4 | 18.9% | 149.9 | 0.092 | 0.41 | 12 | \$20.21 | Installation of ENERGY STAR dehumidifier instead of standard efficiency unit | 38.3% | 83.9% | 4.24 |
| 4028 | ENERGY STAR Refrigerators (Top-Mount) | SFD | ALL | NC | 462.2 | 8.2% | 37.9 | 0.004 | 1.00 | 12 | \$21.83 | Installation of ENERGY STAR top-mount refrigerator instead of standard efficiency unit | 59.0% | 0.0% | 0.84 |
| 4029 | ENERGY STAR Refrigerators (Side-by-Side) | SFD | ALL | NC | 608.9 | 8.6% | 52.5 | 0.006 | 1.00 | 12 | \$57.31 | Installation of ENERGY STAR side-mount refrigerator instead of standard efficiency unit | 22.0% | 0.0% | 0.44 |
| 4030 | ENERGY STAR Refrigerators (Bottom-Mount) | SFD | ALL | NC | 644.2 | 8.7% | 55.9 | 0.006 | 1.00 | 12 | \$17.29 | Installation of ENERGY STAR bottom-mount refrigerator instead of standard efficiency unit | 10.0% | 0.0% | 1.57 |

Measure Assumptions - Penelec

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|--|-----------------|---------------|-------------------|
| 4031 | ENERGY STAR Freezers (Upright) | SFD | ALL | NC | 483.2 | 9.1% | 44.0 | 0.005 | 1.00 | 12 | \$6.75 | Installation of ENERGY STAR upright freezers instead of standard efficiency unit | 31.4% | 0.0% | 3.17 |
| 4032 | ENERGY STAR Freezers (Chest) | SFD | ALL | NC | 290.1 | 10.0% | 29.0 | 0.003 | 1.00 | 12 | \$5.23 | Installation of ENERGY STAR chest freezers instead of standard efficiency unit | 23.7% | 0.0% | 2.69 |
| 4033 | ENERGY STAR Clothes Washers (Electric Water Heating) | SFD | ALL | NC | 472.1 | 32.9% | 155.2 | 0.621 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 39.7% | 0.0% | 1.42 |
| 4034 | ENERGY STAR Clothes Washers (Gas Water Heating) | SFD | ALL | NC | 199.6 | 16.5% | 32.8 | 0.131 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 54.5% | 0.0% | 0.30 |
| 4035 | ENERGY STAR Dishwashers (Electric Water Heating) | SFD | ALL | NC | 307.0 | 12.1% | 37.0 | 0.158 | 0.03 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with electric water heating | 23.2% | 0.0% | 1.56 |
| 4036 | ENERGY STAR Dishwashers (Gas Water Heating) | SFD | ALL | NC | 135.1 | 12.1% | 16.3 | 0.070 | 0.03 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with gas water heating | 31.8% | 0.0% | 0.69 |
| 4037 | ENERGY STAR Dehumidifiers | SFD | ALL | NC | 792.4 | 18.9% | 149.9 | 0.092 | 0.41 | 12 | \$20.21 | Installation of ENERGY STAR dehumidifier instead of standard efficiency unit | 38.3% | 0.0% | 4.24 |
| 4038 | ENERGY STAR Water Coolers | SFD | ALL | NC | 799.4 | 60.3% | 481.8 | 0.055 | 1.00 | 10 | \$50.00 | Installation of ENERGY STAR water cooler instead of standard efficiency unit | 1.2% | 0.0% | 4.08 |
| 4039 | ENERGY STAR Air Purifier/Cleaner | SFD | ALL | NC | 587.0 | 66.6% | 391.0 | 0.067 | 1.00 | 9 | \$70.00 | Installation of ENERGY STAR air purifier instead of standard efficiency unit | 18.8% | 0.0% | 2.34 |
| 4040 | ENERGY STAR Dryers | SFD | ALL | NC | 538.0 | 5.1% | 27.4 | 0.115 | 0.04 | 13 | \$50.00 | Installation of ENERGY STAR dryer instead of standard efficiency unit in homes with electric dryers | 61.8% | 0.0% | 0.31 |
| 4041 | Refrigerator Recycling with Replacement | SFA | NLI | Retrofit | 904.2 | 35.5% | 320.9 | 0.036 | 1.00 | 7 | \$120.00 | Retirement and replacement of non-primary refrigerators in homes with more than one refrigerator; replacement unit assumed to be standard efficiency model | 26.0% | 0.0% | 0.85 |
| 4042 | Refrigerator Recycling without Replacement | SFA | NLI | Retrofit | 904.2 | 100.0% | 904.2 | 0.101 | 1.00 | 8 | \$120.00 | Retirement (no replacement) of non-primary refrigerators in homes with more than one refrigerator | 26.0% | 0.0% | 2.66 |
| 4043 | Freezer Recycling with Replacement | SFA | ALL | Retrofit | 1,078.2 | 51.9% | 559.2 | 0.063 | 1.00 | 7 | \$120.00 | Retirement and replacement of non-primary freezers in homes with more than one freezer; replacement unit assumed to be standard efficiency model | 5.0% | 0.0% | 1.48 |
| 4044 | Freezer Recycling without Replacement | SFA | ALL | Retrofit | 1,078.2 | 100.0% | 1,078.2 | 0.121 | 1.00 | 8 | \$120.00 | Retirement (no replacement) of non-primary refrigerators in homes with more than one refrigerator | 5.0% | 0.0% | 3.18 |
| 4045 | ENERGY STAR Refrigerators (Top-Mount) | SFA | NLI | ROB | 462.2 | 8.2% | 37.9 | 0.004 | 1.00 | 12 | \$21.83 | Installation of ENERGY STAR top-mount refrigerator instead of standard efficiency unit | 59.0% | 34.0% | 0.84 |
| 4046 | ENERGY STAR Refrigerators (Side-by-Side) | SFA | NLI | ROB | 608.9 | 8.6% | 52.5 | 0.006 | 1.00 | 12 | \$57.31 | Installation of ENERGY STAR side-mount refrigerator instead of standard efficiency unit | 22.0% | 34.0% | 0.44 |
| 4047 | ENERGY STAR Refrigerators (Bottom-Mount) | SFA | NLI | ROB | 644.2 | 8.7% | 55.9 | 0.006 | 1.00 | 12 | \$17.29 | Installation of ENERGY STAR bottom-mount refrigerator instead of standard efficiency unit | 10.0% | 34.0% | 1.57 |
| 4048 | ENERGY STAR Freezers (Upright) | SFA | NLI | ROB | 483.2 | 9.1% | 44.0 | 0.005 | 1.00 | 12 | \$6.75 | Installation of ENERGY STAR upright freezers instead of standard efficiency unit | 31.4% | 22.0% | 3.17 |
| 4049 | ENERGY STAR Freezers (Chest) | SFA | NLI | ROB | 290.1 | 10.0% | 29.0 | 0.003 | 1.00 | 12 | \$5.23 | Installation of ENERGY STAR chest freezers instead of standard efficiency unit | 23.7% | 22.0% | 2.69 |
| 4050 | ENERGY STAR Clothes Washers (Electric Water Heating) | SFA | NLI | ROB | 472.1 | 32.9% | 155.2 | 0.621 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 39.7% | 24.0% | 1.42 |
| 4051 | ENERGY STAR Clothes Washers (Gas Water Heating) | SFA | NLI | ROB | 199.6 | 16.5% | 32.8 | 0.131 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 54.5% | 24.0% | 0.30 |
| 4052 | ENERGY STAR Dishwashers (Electric Water Heating) | SFA | ALL | ROB | 307.0 | 12.1% | 37.0 | 0.158 | 0.03 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with electric water heating | 23.2% | 29.0% | 1.56 |
| 4053 | ENERGY STAR Dishwashers (Gas Water Heating) | SFA | ALL | ROB | 135.1 | 12.1% | 16.3 | 0.070 | 0.03 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with gas water heating | 31.8% | 29.0% | 0.69 |
| 4054 | ENERGY STAR Dehumidifiers | SFA | NLI | ROB | 792.4 | 18.9% | 149.9 | 0.092 | 0.41 | 12 | \$20.21 | Installation of ENERGY STAR dehumidifier instead of standard efficiency unit | 38.3% | 83.9% | 4.24 |
| 4055 | ENERGY STAR Water Coolers | SFA | ALL | ROB | 799.4 | 60.3% | 481.8 | 0.055 | 1.00 | 10 | \$50.00 | Installation of ENERGY STAR water cooler instead of standard efficiency unit | 1.2% | 68.5% | 4.08 |
| 4056 | ENERGY STAR Air Purifier/Cleaner | SFA | ALL | ROB | 587.0 | 66.6% | 391.0 | 0.067 | 1.00 | 9 | \$70.00 | Installation of ENERGY STAR air purifier instead of standard efficiency unit | 18.8% | 33.3% | 2.34 |
| 4057 | ENERGY STAR Dryers | SFA | ALL | ROB | 538.0 | 5.1% | 27.4 | 0.115 | 0.04 | 13 | \$50.00 | Installation of ENERGY STAR dryer instead of standard efficiency unit in homes with electric dryers | 61.8% | 25.0% | 0.31 |
| 4058 | Refrigerator Recycling with Replacement | SFA | LI | Retrofit | 904.2 | 35.5% | 320.9 | 0.036 | 1.00 | 7 | \$120.00 | Retirement and replacement of non-primary refrigerators in homes with more than one refrigerator; replacement unit assumed to be standard efficiency model | 26.0% | 0.0% | 0.85 |
| 4059 | Refrigerator Recycling without Replacement | SFA | LI | Retrofit | 904.2 | 100.0% | 904.2 | 0.101 | 1.00 | 8 | \$120.00 | Retirement (no replacement) of non-primary refrigerators in homes with more than one refrigerator | 26.0% | 0.0% | 2.66 |
| 4060 | ENERGY STAR Refrigerators (Top-Mount) | SFA | LI | ROB | 462.2 | 8.2% | 37.9 | 0.004 | 1.00 | 12 | \$21.83 | Installation of ENERGY STAR top-mount refrigerator instead of standard efficiency unit | 59.0% | 34.0% | 0.84 |
| 4061 | ENERGY STAR Refrigerators (Side-by-Side) | SFA | LI | ROB | 608.9 | 8.6% | 52.5 | 0.006 | 1.00 | 12 | \$57.31 | Installation of ENERGY STAR side-mount refrigerator instead of standard efficiency unit | 22.0% | 34.0% | 0.44 |

Measure Assumptions - Penelec

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|--|-----------------|---------------|-------------------|
| 4062 | ENERGY STAR Refrigerators (Bottom-Mount) | SFA | LI | ROB | 644.2 | 8.7% | 55.9 | 0.006 | 1.00 | 12 | \$17.29 | Installation of ENERGY STAR bottom-mount refrigerator instead of standard efficiency unit | 10.0% | 34.0% | 1.57 |
| 4063 | ENERGY STAR Freezers (Upright) | SFA | LI | ROB | 483.2 | 9.1% | 44.0 | 0.005 | 1.00 | 12 | \$6.75 | Installation of ENERGY STAR upright freezers instead of standard efficiency unit | 31.4% | 22.0% | 3.17 |
| 4064 | ENERGY STAR Freezers (Chest) | SFA | LI | ROB | 290.1 | 10.0% | 29.0 | 0.003 | 1.00 | 12 | \$5.23 | Installation of ENERGY STAR chest freezers instead of standard efficiency unit | 23.7% | 22.0% | 2.69 |
| 4065 | ENERGY STAR Clothes Washers (Electric Water Heating) | SFA | LI | ROB | 472.1 | 32.9% | 155.2 | 0.621 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 39.7% | 24.0% | 1.42 |
| 4066 | ENERGY STAR Clothes Washers (Gas Water Heating) | SFA | LI | ROB | 199.6 | 16.5% | 32.8 | 0.131 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 54.5% | 24.0% | 0.30 |
| 4067 | ENERGY STAR Dehumidifiers | SFA | LI | ROB | 792.4 | 18.9% | 149.9 | 0.092 | 0.41 | 12 | \$20.21 | Installation of ENERGY STAR dehumidifier instead of standard efficiency unit | 38.3% | 83.9% | 4.24 |
| 4068 | ENERGY STAR Refrigerators (Top-Mount) | SFA | ALL | NC | 462.2 | 8.2% | 37.9 | 0.004 | 1.00 | 12 | \$21.83 | Installation of ENERGY STAR top-mount refrigerator instead of standard efficiency unit | 59.0% | 0.0% | 0.84 |
| 4069 | ENERGY STAR Refrigerators (Side-by-Side) | SFA | ALL | NC | 608.9 | 8.6% | 52.5 | 0.006 | 1.00 | 12 | \$57.31 | Installation of ENERGY STAR side-mount refrigerator instead of standard efficiency unit | 22.0% | 0.0% | 0.44 |
| 4070 | ENERGY STAR Refrigerators (Bottom-Mount) | SFA | ALL | NC | 644.2 | 8.7% | 55.9 | 0.006 | 1.00 | 12 | \$17.29 | Installation of ENERGY STAR bottom-mount refrigerator instead of standard efficiency unit | 10.0% | 0.0% | 1.57 |
| 4071 | ENERGY STAR Freezers (Upright) | SFA | ALL | NC | 483.2 | 9.1% | 44.0 | 0.005 | 1.00 | 12 | \$6.75 | Installation of ENERGY STAR upright freezers instead of standard efficiency unit | 31.4% | 0.0% | 3.17 |
| 4072 | ENERGY STAR Freezers (Chest) | SFA | ALL | NC | 290.1 | 10.0% | 29.0 | 0.003 | 1.00 | 12 | \$5.23 | Installation of ENERGY STAR chest freezers instead of standard efficiency unit | 23.7% | 0.0% | 2.69 |
| 4073 | ENERGY STAR Clothes Washers (Electric Water Heating) | SFA | ALL | NC | 472.1 | 32.9% | 155.2 | 0.621 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 39.7% | 0.0% | 1.42 |
| 4074 | ENERGY STAR Clothes Washers (Gas Water Heating) | SFA | ALL | NC | 199.6 | 16.5% | 32.8 | 0.131 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 54.5% | 0.0% | 0.30 |
| 4075 | ENERGY STAR Dishwashers (Electric Water Heating) | SFA | ALL | NC | 307.0 | 12.1% | 37.0 | 0.158 | 0.03 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with electric water heating | 23.2% | 0.0% | 1.56 |
| 4076 | ENERGY STAR Dishwashers (Gas Water Heating) | SFA | ALL | NC | 135.1 | 12.1% | 16.3 | 0.070 | 0.03 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with gas water heating | 31.8% | 0.0% | 0.69 |
| 4077 | ENERGY STAR Dehumidifiers | SFA | ALL | NC | 792.4 | 18.9% | 149.9 | 0.092 | 0.41 | 12 | \$20.21 | Installation of ENERGY STAR dehumidifier instead of standard efficiency unit | 38.3% | 0.0% | 4.24 |
| 4078 | ENERGY STAR Water Coolers | SFA | ALL | NC | 799.4 | 60.3% | 481.8 | 0.055 | 1.00 | 10 | \$50.00 | Installation of ENERGY STAR water cooler instead of standard efficiency unit | 1.2% | 0.0% | 4.08 |
| 4079 | ENERGY STAR Air Purifier/Cleaner | SFA | ALL | NC | 587.0 | 66.6% | 391.0 | 0.067 | 1.00 | 9 | \$70.00 | Installation of ENERGY STAR air purifier instead of standard efficiency unit | 18.8% | 0.0% | 2.34 |
| 4080 | ENERGY STAR Dryers | SFA | ALL | NC | 538.0 | 5.1% | 27.4 | 0.115 | 0.04 | 13 | \$50.00 | Installation of ENERGY STAR dryer instead of standard efficiency unit in homes with electric dryers | 61.8% | 0.0% | 0.31 |
| 4081 | Refrigerator Recycling with Replacement | MF | NLI | Retrofit | 904.2 | 35.5% | 320.9 | 0.036 | 1.00 | 7 | \$120.00 | Retirement and replacement of non-primary refrigerators in homes with more than one refrigerator; replacement unit assumed to be standard efficiency model | 26.0% | 0.0% | 0.85 |
| 4082 | Refrigerator Recycling without Replacement | MF | NLI | Retrofit | 904.2 | 100.0% | 904.2 | 0.101 | 1.00 | 8 | \$120.00 | Retirement (no replacement) of non-primary refrigerators in homes with more than one refrigerator | 26.0% | 0.0% | 2.66 |
| 4083 | Freezer Recycling with Replacement | MF | ALL | Retrofit | 1,078.2 | 51.9% | 559.2 | 0.063 | 1.00 | 7 | \$120.00 | Retirement and replacement of non-primary freezers in homes with more than one freezer; replacement unit assumed to be standard efficiency model | 5.0% | 0.0% | 1.48 |
| 4084 | Freezer Recycling without Replacement | MF | ALL | Retrofit | 1,078.2 | 100.0% | 1,078.2 | 0.121 | 1.00 | 8 | \$120.00 | Retirement (no replacement) of non-primary refrigerators in homes with more than one refrigerator | 5.0% | 0.0% | 3.18 |
| 4085 | ENERGY STAR Refrigerators (Top-Mount) | MF | NLI | ROB | 462.2 | 8.2% | 37.9 | 0.004 | 1.00 | 12 | \$21.83 | Installation of ENERGY STAR top-mount refrigerator instead of standard efficiency unit | 59.0% | 34.0% | 0.84 |
| 4086 | ENERGY STAR Refrigerators (Side-by-Side) | MF | NLI | ROB | 608.9 | 8.6% | 52.5 | 0.006 | 1.00 | 12 | \$57.31 | Installation of ENERGY STAR side-mount refrigerator instead of standard efficiency unit | 22.0% | 34.0% | 0.44 |
| 4087 | ENERGY STAR Refrigerators (Bottom-Mount) | MF | NLI | ROB | 644.2 | 8.7% | 55.9 | 0.006 | 1.00 | 12 | \$17.29 | Installation of ENERGY STAR bottom-mount refrigerator instead of standard efficiency unit | 10.0% | 34.0% | 1.57 |
| 4088 | ENERGY STAR Freezers (Upright) | MF | NLI | ROB | 483.2 | 9.1% | 44.0 | 0.005 | 1.00 | 12 | \$6.75 | Installation of ENERGY STAR upright freezers instead of standard efficiency unit | 31.4% | 22.0% | 3.17 |
| 4089 | ENERGY STAR Freezers (Chest) | MF | NLI | ROB | 290.1 | 10.0% | 29.0 | 0.003 | 1.00 | 12 | \$5.23 | Installation of ENERGY STAR chest freezers instead of standard efficiency unit | 23.7% | 22.0% | 2.69 |
| 4090 | ENERGY STAR Clothes Washers (Electric Water Heating) | MF | NLI | ROB | 472.1 | 32.9% | 155.2 | 0.621 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 39.7% | 24.0% | 1.42 |
| 4091 | ENERGY STAR Clothes Washers (Gas Water Heating) | MF | NLI | ROB | 199.6 | 16.5% | 32.8 | 0.131 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 54.5% | 24.0% | 0.30 |
| 4092 | ENERGY STAR Dishwashers (Electric Water Heating) | MF | ALL | ROB | 307.0 | 12.1% | 37.0 | 0.158 | 0.03 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with electric water heating | 23.2% | 29.0% | 1.56 |

Measure Assumptions - Penelec

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|--|-----------------|---------------|-------------------|
| 4093 | ENERGY STAR Dishwashers (Gas Water Heating) | MF | ALL | ROB | 135.1 | 12.1% | 16.3 | 0.070 | 0.03 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with gas water heating | 31.8% | 29.0% | 0.69 |
| 4094 | ENERGY STAR Dehumidifiers | MF | NLI | ROB | 792.4 | 18.9% | 149.9 | 0.092 | 0.41 | 12 | \$20.21 | Installation of ENERGY STAR dehumidifier instead of standard efficiency unit | 38.3% | 83.9% | 4.24 |
| 4095 | ENERGY STAR Water Coolers | MF | ALL | ROB | 799.4 | 60.3% | 481.8 | 0.055 | 1.00 | 10 | \$50.00 | Installation of ENERGY STAR water cooler instead of standard efficiency unit | 1.2% | 68.5% | 4.08 |
| 4096 | ENERGY STAR Air Purifier/Cleaner | MF | ALL | ROB | 587.0 | 66.6% | 391.0 | 0.067 | 1.00 | 9 | \$70.00 | Installation of ENERGY STAR air purifier instead of standard efficiency unit | 18.8% | 33.3% | 2.34 |
| 4097 | ENERGY STAR Dryers | MF | ALL | ROB | 538.0 | 5.1% | 27.4 | 0.115 | 0.04 | 13 | \$50.00 | Installation of ENERGY STAR dryer instead of standard efficiency unit in homes with electric dryers | 61.8% | 25.0% | 0.31 |
| 4098 | Refrigerator Recycling with Replacement | MF | LI | Retrofit | 904.2 | 35.5% | 320.9 | 0.036 | 1.00 | 7 | \$120.00 | Retirement and replacement of non-primary refrigerators in homes with more than one refrigerator; replacement unit assumed to be standard efficiency model | 26.0% | 0.0% | 0.85 |
| 4099 | Refrigerator Recycling without Replacement | MF | LI | Retrofit | 904.2 | 100.0% | 904.2 | 0.101 | 1.00 | 8 | \$120.00 | Retirement (no replacement) of non-primary refrigerators in homes with more than one refrigerator | 26.0% | 0.0% | 2.66 |
| 4100 | ENERGY STAR Refrigerators (Top-Mount) | MF | LI | ROB | 462.2 | 8.2% | 37.9 | 0.004 | 1.00 | 12 | \$21.83 | Installation of ENERGY STAR top-mount refrigerator instead of standard efficiency unit | 59.0% | 34.0% | 0.84 |
| 4101 | ENERGY STAR Refrigerators (Side-by-Side) | MF | LI | ROB | 608.9 | 8.6% | 52.5 | 0.006 | 1.00 | 12 | \$57.31 | Installation of ENERGY STAR side-mount refrigerator instead of standard efficiency unit | 22.0% | 34.0% | 0.44 |
| 4102 | ENERGY STAR Refrigerators (Bottom-Mount) | MF | LI | ROB | 644.2 | 8.7% | 55.9 | 0.006 | 1.00 | 12 | \$17.29 | Installation of ENERGY STAR bottom-mount refrigerator instead of standard efficiency unit | 10.0% | 34.0% | 1.57 |
| 4103 | ENERGY STAR Freezers (Upright) | MF | LI | ROB | 483.2 | 9.1% | 44.0 | 0.005 | 1.00 | 12 | \$6.75 | Installation of ENERGY STAR upright freezers instead of standard efficiency unit | 31.4% | 22.0% | 3.17 |
| 4104 | ENERGY STAR Freezers (Chest) | MF | LI | ROB | 290.1 | 10.0% | 29.0 | 0.003 | 1.00 | 12 | \$5.23 | Installation of ENERGY STAR chest freezers instead of standard efficiency unit | 23.7% | 22.0% | 2.69 |
| 4105 | ENERGY STAR Clothes Washers (Electric Water Heating) | MF | LI | ROB | 472.1 | 32.9% | 155.2 | 0.621 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 39.7% | 24.0% | 1.42 |
| 4106 | ENERGY STAR Clothes Washers (Gas Water Heating) | MF | LI | ROB | 199.6 | 16.5% | 32.8 | 0.131 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 54.5% | 24.0% | 0.30 |
| 4107 | ENERGY STAR Dehumidifiers | MF | LI | ROB | 792.4 | 18.9% | 149.9 | 0.092 | 0.41 | 12 | \$20.21 | Installation of ENERGY STAR dehumidifier instead of standard efficiency unit | 38.3% | 83.9% | 4.24 |
| 4108 | ENERGY STAR Refrigerators (Top-Mount) | MF | ALL | NC | 462.2 | 8.2% | 37.9 | 0.004 | 1.00 | 12 | \$21.83 | Installation of ENERGY STAR top-mount refrigerator instead of standard efficiency unit | 59.0% | 0.0% | 0.84 |
| 4109 | ENERGY STAR Refrigerators (Side-by-Side) | MF | ALL | NC | 608.9 | 8.6% | 52.5 | 0.006 | 1.00 | 12 | \$57.31 | Installation of ENERGY STAR side-mount refrigerator instead of standard efficiency unit | 22.0% | 0.0% | 0.44 |
| 4110 | ENERGY STAR Refrigerators (Bottom-Mount) | MF | ALL | NC | 644.2 | 8.7% | 55.9 | 0.006 | 1.00 | 12 | \$17.29 | Installation of ENERGY STAR bottom-mount refrigerator instead of standard efficiency unit | 10.0% | 0.0% | 1.57 |
| 4111 | ENERGY STAR Freezers (Upright) | MF | ALL | NC | 483.2 | 9.1% | 44.0 | 0.005 | 1.00 | 12 | \$6.75 | Installation of ENERGY STAR upright freezers instead of standard efficiency unit | 31.4% | 0.0% | 3.17 |
| 4112 | ENERGY STAR Freezers (Chest) | MF | ALL | NC | 290.1 | 10.0% | 29.0 | 0.003 | 1.00 | 12 | \$5.23 | Installation of ENERGY STAR chest freezers instead of standard efficiency unit | 23.7% | 0.0% | 2.69 |
| 4113 | ENERGY STAR Clothes Washers (Electric Water Heating) | MF | ALL | NC | 472.1 | 32.9% | 155.2 | 0.621 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 39.7% | 0.0% | 1.42 |
| 4114 | ENERGY STAR Clothes Washers (Gas Water Heating) | MF | ALL | NC | 199.6 | 16.5% | 32.8 | 0.131 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 54.5% | 0.0% | 0.30 |
| 4115 | ENERGY STAR Dishwashers (Electric Water Heating) | MF | ALL | NC | 307.0 | 12.1% | 37.0 | 0.158 | 0.03 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with electric water heating | 23.2% | 0.0% | 1.56 |
| 4116 | ENERGY STAR Dishwashers (Gas Water Heating) | MF | ALL | NC | 135.1 | 12.1% | 16.3 | 0.070 | 0.03 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with gas water heating | 31.8% | 0.0% | 0.69 |
| 4117 | ENERGY STAR Dehumidifiers | MF | ALL | NC | 792.4 | 18.9% | 149.9 | 0.092 | 0.41 | 12 | \$20.21 | Installation of ENERGY STAR dehumidifier instead of standard efficiency unit | 38.3% | 0.0% | 4.24 |
| 4118 | ENERGY STAR Water Coolers | MF | ALL | NC | 799.4 | 60.3% | 481.8 | 0.055 | 1.00 | 10 | \$50.00 | Installation of ENERGY STAR water cooler instead of standard efficiency unit | 1.2% | 0.0% | 4.08 |
| 4119 | ENERGY STAR Air Purifier/Cleaner | MF | ALL | NC | 587.0 | 66.6% | 391.0 | 0.067 | 1.00 | 9 | \$70.00 | Installation of ENERGY STAR air purifier instead of standard efficiency unit | 18.8% | 0.0% | 2.34 |
| 4120 | ENERGY STAR Dryers | MF | ALL | NC | 538.0 | 5.1% | 27.4 | 0.115 | 0.04 | 13 | \$50.00 | Installation of ENERGY STAR dryer instead of standard efficiency unit in homes with electric dryers | 61.8% | 0.0% | 0.31 |
| 5000 | Consumer Electronics | | | | | | | | | | | | | | |
| 5001 | Smart Strip Plug Outlets - Home Office | SFD | NLI | Retrofit | 48.9 | 100.0% | 48.9 | 0.007 | 0.83 | 10 | \$32.97 | Smart strip plug outlet for home office centers | 87.2% | 7.1% | 0.63 |
| 5002 | Smart Strip Plug Outlets - Entertainment Center | SFD | NLI | Retrofit | 62.1 | 100.0% | 62.1 | 0.009 | 0.90 | 10 | \$32.97 | Smart strip plug outlet for home entertainment centers | 163.3% | 4.9% | 0.81 |
| 5003 | ENERGY STAR Televisions > 50" | SFD | ALL | ROB | 197.1 | 49.3% | 97.1 | 0.053 | 0.17 | 6 | \$1.00 | Installation of high efficiency > 50" diameter television instead of a standard efficiency unit | 62.6% | 86.0% | 26.43 |
| 5004 | ENERGY STAR Televisions < 50" | SFD | ALL | ROB | 96.2 | 49.2% | 47.4 | 0.026 | 0.17 | 6 | \$1.00 | Installation of high efficiency < 50" diameter television instead of a standard efficiency unit | 146.0% | 86.0% | 12.90 |
| 5005 | ENERGY STAR Computer - Desktop | SFD | ALL | ROB | 165.6 | 42.7% | 70.7 | 0.022 | 0.76 | 4 | \$8.00 | Installation of high efficiency desktop computer instead of a standard efficiency unit | 63.0% | 27.5% | 2.01 |

Measure Assumptions - Penelec

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|---|--------------------------|---------------|-------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|---|-----------------|---------------|-------------------|
| 5006 | ENERGY STAR Computer - Laptop | SFD | ALL | ROB | 52.8 | 40.8% | 21.5 | 0.007 | 0.76 | 4 | \$1.00 | Installation of high efficiency laptop computer instead of a standard efficiency unit | 80.0% | 75.5% | 4.90 |
| 5007 | ENERGY STAR Fax Machine | SFD | ALL | ROB | 52.1 | 30.0% | 15.6 | 0.002 | 1.00 | 4 | \$1.00 | Installation of high efficiency fax machine instead of a standard efficiency unit | 3.0% | 6.5% | 3.15 |
| 5008 | ENERGY STAR Copier | SFD | ALL | ROB | 182.5 | 25.7% | 46.9 | 0.022 | 0.28 | 6 | \$1.00 | Installation of high efficiency copier instead of a standard efficiency unit | 4.2% | 77.8% | 13.48 |
| 5009 | ENERGY STAR Printer | SFD | ALL | ROB | 43.8 | 55.0% | 24.1 | 0.006 | 0.59 | 5 | \$1.00 | Installation of high efficiency printer instead of a standard efficiency unit | 29.4% | 95.0% | 5.91 |
| 5010 | ENERGY STAR Multifunction | SFD | ALL | ROB | 70.1 | 66.3% | 46.4 | 0.011 | 0.59 | 6 | \$1.00 | Installation of high efficiency multifunction device instead of a standard efficiency unit | 53.2% | 95.0% | 13.34 |
| 5011 | ENERGY STAR Monitors | SFD | ALL | ROB | 73.6 | 32.4% | 23.8 | 0.013 | 0.26 | 4 | \$1.80 | Installation of high efficiency monitors instead of a standard efficiency unit | 63.0% | 73.3% | 2.67 |
| 5012 | Smart Strip Plug Outlets - Home Office | SFD | LI | Retrofit | 48.9 | 100.0% | 48.9 | 0.007 | 0.83 | 10 | \$32.97 | Smart strip plug outlet for home office centers | 87.2% | 7.1% | 0.63 |
| 5013 | Smart Strip Plug Outlets - Entertainment Center | SFD | LI | Retrofit | 62.1 | 100.0% | 62.1 | 0.009 | 0.90 | 10 | \$32.97 | Smart strip plug outlet for home entertainment centers | 163.3% | 4.9% | 0.81 |
| 5014 | Smart Strip Plug Outlets - Home Office | SFD | ALL | NC | 48.9 | 100.0% | 48.9 | 0.007 | 0.83 | 10 | \$32.97 | Smart strip plug outlet for home office centers | 87.2% | 0.0% | 0.63 |
| 5015 | Smart Strip Plug Outlets - Entertainment Center | SFD | ALL | NC | 62.1 | 100.0% | 62.1 | 0.009 | 0.90 | 10 | \$32.97 | Smart strip plug outlet for home entertainment centers | 163.3% | 0.0% | 0.81 |
| 5016 | ENERGY STAR Televisions > 50" | SFD | ALL | NC | 197.1 | 49.3% | 97.1 | 0.053 | 0.17 | 6 | \$1.00 | Installation of high efficiency > 50" diameter television instead of a standard efficiency unit | 62.6% | 0.0% | 26.43 |
| 5017 | ENERGY STAR Televisions < 50" | SFD | ALL | NC | 96.2 | 49.2% | 47.4 | 0.026 | 0.17 | 6 | \$1.00 | Installation of high efficiency < 50" diameter television instead of a standard efficiency unit | 146.0% | 0.0% | 12.90 |
| 5018 | ENERGY STAR Computer - Desktop | SFD | ALL | NC | 165.6 | 42.7% | 70.7 | 0.022 | 0.76 | 4 | \$8.00 | Installation of high efficiency desktop computer instead of a standard efficiency unit | 63.0% | 0.0% | 2.01 |
| 5019 | ENERGY STAR Computer - Laptop | SFD | ALL | NC | 52.8 | 40.8% | 21.5 | 0.007 | 0.76 | 4 | \$1.00 | Installation of high efficiency laptop computer instead of a standard efficiency unit | 80.0% | 0.0% | 4.90 |
| 5020 | ENERGY STAR Fax Machine | SFD | ALL | NC | 52.1 | 30.0% | 15.6 | 0.002 | 1.00 | 4 | \$1.00 | Installation of high efficiency fax machine instead of a standard efficiency unit | 3.0% | 0.0% | 3.15 |
| 5021 | ENERGY STAR Copier | SFD | ALL | NC | 182.5 | 25.7% | 46.9 | 0.022 | 0.28 | 6 | \$1.00 | Installation of high efficiency copier instead of a standard efficiency unit | 4.2% | 0.0% | 13.48 |
| 5022 | ENERGY STAR Printer | SFD | ALL | NC | 43.8 | 55.0% | 24.1 | 0.006 | 0.59 | 5 | \$1.00 | Installation of high efficiency printer instead of a standard efficiency unit | 29.4% | 0.0% | 5.91 |
| 5023 | ENERGY STAR Multifunction | SFD | ALL | NC | 70.1 | 66.3% | 46.4 | 0.011 | 0.59 | 6 | \$1.00 | Installation of high efficiency multifunction device instead of a standard efficiency unit | 53.2% | 0.0% | 13.34 |
| 5024 | ENERGY STAR Monitors | SFD | ALL | NC | 73.6 | 32.4% | 23.8 | 0.013 | 0.26 | 4 | \$1.80 | Installation of high efficiency monitors instead of a standard efficiency unit | 63.0% | 0.0% | 2.67 |
| 5025 | Smart Strip Plug Outlets - Home Office | SFA | NLI | Retrofit | 48.9 | 100.0% | 48.9 | 0.007 | 0.83 | 10 | \$32.97 | Smart strip plug outlet for home office centers | 87.2% | 7.1% | 0.63 |
| 5026 | Smart Strip Plug Outlets - Entertainment Center | SFA | NLI | Retrofit | 62.1 | 100.0% | 62.1 | 0.009 | 0.90 | 10 | \$32.97 | Smart strip plug outlet for home entertainment centers | 144.1% | 4.9% | 0.81 |
| 5027 | ENERGY STAR Televisions > 50" | SFA | ALL | ROB | 197.1 | 49.1% | 96.9 | 0.053 | 0.17 | 6 | \$1.00 | Installation of high efficiency > 50" diameter television instead of a standard efficiency unit | 55.2% | 86.0% | 26.37 |
| 5028 | ENERGY STAR Televisions < 50" | SFA | ALL | ROB | 98.1 | 49.3% | 48.4 | 0.027 | 0.17 | 6 | \$1.00 | Installation of high efficiency < 50" diameter television instead of a standard efficiency unit | 128.8% | 86.0% | 13.17 |
| 5029 | ENERGY STAR Computer - Desktop | SFA | ALL | ROB | 165.6 | 42.7% | 70.7 | 0.022 | 0.76 | 4 | \$8.00 | Installation of high efficiency desktop computer instead of a standard efficiency unit | 63.0% | 27.5% | 2.01 |
| 5030 | ENERGY STAR Computer - Laptop | SFA | ALL | ROB | 52.8 | 40.8% | 21.5 | 0.007 | 0.76 | 4 | \$1.00 | Installation of high efficiency laptop computer instead of a standard efficiency unit | 80.0% | 75.5% | 4.90 |
| 5031 | ENERGY STAR Fax Machine | SFA | ALL | ROB | 52.1 | 30.0% | 15.6 | 0.002 | 1.00 | 4 | \$1.00 | Installation of high efficiency fax machine instead of a standard efficiency unit | 3.0% | 6.5% | 3.15 |
| 5032 | ENERGY STAR Copier | SFA | ALL | ROB | 182.5 | 25.7% | 46.9 | 0.022 | 0.28 | 6 | \$1.00 | Installation of high efficiency copier instead of a standard efficiency unit | 1.7% | 77.8% | 13.48 |
| 5033 | ENERGY STAR Printer | SFA | ALL | ROB | 43.8 | 55.0% | 24.1 | 0.006 | 0.59 | 5 | \$1.00 | Installation of high efficiency printer instead of a standard efficiency unit | 29.0% | 95.0% | 5.91 |
| 5034 | ENERGY STAR Multifunction | SFA | ALL | ROB | 70.1 | 66.3% | 46.4 | 0.011 | 0.59 | 6 | \$1.00 | Installation of high efficiency multifunction device instead of a standard efficiency unit | 45.0% | 95.0% | 13.34 |
| 5035 | ENERGY STAR Monitors | SFA | ALL | ROB | 73.6 | 32.4% | 23.8 | 0.013 | 0.26 | 4 | \$1.80 | Installation of high efficiency monitors instead of a standard efficiency unit | 63.0% | 73.3% | 2.67 |
| 5036 | Smart Strip Plug Outlets - Home Office | SFA | LI | Retrofit | 48.9 | 100.0% | 48.9 | 0.007 | 0.83 | 10 | \$32.97 | Smart strip plug outlet for home office centers | 87.2% | 7.1% | 0.63 |
| 5037 | Smart Strip Plug Outlets - Entertainment Center | SFA | LI | Retrofit | 62.1 | 100.0% | 62.1 | 0.009 | 0.90 | 10 | \$32.97 | Smart strip plug outlet for home entertainment centers | 144.1% | 4.9% | 0.81 |
| 5038 | Smart Strip Plug Outlets - Home Office | SFA | ALL | NC | 48.9 | 100.0% | 48.9 | 0.007 | 0.83 | 10 | \$32.97 | Smart strip plug outlet for home office centers | 87.2% | 0.0% | 0.63 |
| 5039 | Smart Strip Plug Outlets - Entertainment Center | SFA | ALL | NC | 62.1 | 100.0% | 62.1 | 0.009 | 0.90 | 10 | \$32.97 | Smart strip plug outlet for home entertainment centers | 144.1% | 0.0% | 0.81 |
| 5040 | ENERGY STAR Televisions > 50" | SFA | ALL | NC | 197.1 | 49.1% | 96.9 | 0.053 | 0.17 | 6 | \$1.00 | Installation of high efficiency > 50" diameter television instead of a standard efficiency unit | 55.2% | 0.0% | 26.37 |
| 5041 | ENERGY STAR Televisions < 50" | SFA | ALL | NC | 98.1 | 49.3% | 48.4 | 0.027 | 0.17 | 6 | \$1.00 | Installation of high efficiency < 50" diameter television instead of a standard efficiency unit | 128.8% | 0.0% | 13.17 |
| 5042 | ENERGY STAR Computer - Desktop | SFA | ALL | NC | 165.6 | 42.7% | 70.7 | 0.022 | 0.76 | 4 | \$8.00 | Installation of high efficiency desktop computer instead of a standard efficiency unit | 63.0% | 0.0% | 2.01 |
| 5043 | ENERGY STAR Computer - Laptop | SFA | ALL | NC | 52.8 | 40.8% | 21.5 | 0.007 | 0.76 | 4 | \$1.00 | Installation of high efficiency laptop computer instead of a standard efficiency unit | 80.0% | 0.0% | 4.90 |
| 5044 | ENERGY STAR Fax Machine | SFA | ALL | NC | 52.1 | 30.0% | 15.6 | 0.002 | 1.00 | 4 | \$1.00 | Installation of high efficiency fax machine instead of a standard efficiency unit | 3.0% | 0.0% | 3.15 |
| 5045 | ENERGY STAR Copier | SFA | ALL | NC | 182.5 | 25.7% | 46.9 | 0.022 | 0.28 | 6 | \$1.00 | Installation of high efficiency copier instead of a standard efficiency unit | 1.7% | 0.0% | 13.48 |

Measure Assumptions - Penelec

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|---|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|--|-----------------|---------------|-------------------|
| 5046 | ENERGY STAR Printer | SFA | ALL | NC | 43.8 | 55.0% | 24.1 | 0.006 | 0.59 | 5 | \$1.00 | Installation of high efficiency printer instead of a standard efficiency unit | 29.0% | 0.0% | 5.91 |
| 5047 | ENERGY STAR Multifunction | SFA | ALL | NC | 70.1 | 66.3% | 46.4 | 0.011 | 0.59 | 6 | \$1.00 | Installation of high efficiency multifunction device instead of a standard efficiency unit | 45.0% | 0.0% | 13.34 |
| 5048 | ENERGY STAR Monitors | SFA | ALL | NC | 73.6 | 32.4% | 23.8 | 0.013 | 0.26 | 4 | \$1.80 | Installation of high efficiency monitors instead of a standard efficiency unit | 63.0% | 0.0% | 2.67 |
| 5049 | Smart Strip Plug Outlets - Home Office | MF | NLI | Retrofit | 48.9 | 100.0% | 48.9 | 0.007 | 0.83 | 10 | \$32.97 | Smart strip plug outlet for home office centers | 87.2% | 7.1% | 0.63 |
| 5050 | Smart Strip Plug Outlets - Entertainment Center | MF | NLI | Retrofit | 62.1 | 100.0% | 62.1 | 0.009 | 0.90 | 10 | \$32.97 | Smart strip plug outlet for home entertainment centers | 107.8% | 4.9% | 0.81 |
| 5051 | ENERGY STAR Televisions > 50" | MF | ALL | ROB | 197.1 | 50.0% | 98.6 | 0.054 | 0.17 | 6 | \$1.00 | Installation of high efficiency > 50" diameter television instead of a standard efficiency unit | 41.3% | 86.0% | 26.83 |
| 5052 | ENERGY STAR Televisions < 50" | MF | ALL | ROB | 89.1 | 48.7% | 43.4 | 0.024 | 0.17 | 6 | \$1.00 | Installation of high efficiency < 50" diameter television instead of a standard efficiency unit | 96.4% | 86.0% | 11.81 |
| 5053 | ENERGY STAR Computer - Desktop | MF | ALL | ROB | 165.6 | 42.7% | 70.7 | 0.022 | 0.76 | 4 | \$8.00 | Installation of high efficiency desktop computer instead of a standard efficiency unit | 63.0% | 27.5% | 2.01 |
| 5054 | ENERGY STAR Computer - Laptop | MF | ALL | ROB | 52.8 | 40.8% | 21.5 | 0.007 | 0.76 | 4 | \$1.00 | Installation of high efficiency laptop computer instead of a standard efficiency unit | 80.0% | 75.5% | 4.90 |
| 5055 | ENERGY STAR Fax Machine | MF | ALL | ROB | 52.1 | 30.0% | 15.6 | 0.002 | 1.00 | 4 | \$1.00 | Installation of high efficiency fax machine instead of a standard efficiency unit | 3.0% | 6.5% | 3.15 |
| 5056 | ENERGY STAR Copier | MF | ALL | ROB | 182.5 | 25.7% | 46.9 | 0.022 | 0.28 | 6 | \$1.00 | Installation of high efficiency copier instead of a standard efficiency unit | 1.1% | 77.8% | 13.48 |
| 5057 | ENERGY STAR Printer | MF | ALL | ROB | 43.8 | 55.0% | 24.1 | 0.006 | 0.59 | 5 | \$1.00 | Installation of high efficiency printer instead of a standard efficiency unit | 12.6% | 95.0% | 5.91 |
| 5058 | ENERGY STAR Multifunction | MF | ALL | ROB | 70.1 | 66.3% | 46.4 | 0.011 | 0.59 | 6 | \$1.00 | Installation of high efficiency multifunction device instead of a standard efficiency unit | 30.3% | 95.0% | 13.34 |
| 5059 | ENERGY STAR Monitors | MF | ALL | ROB | 73.6 | 32.4% | 23.8 | 0.013 | 0.26 | 4 | \$1.80 | Installation of high efficiency monitors instead of a standard efficiency unit | 63.0% | 73.3% | 2.67 |
| 5060 | Smart Strip Plug Outlets - Home Office | MF | LI | Retrofit | 48.9 | 100.0% | 48.9 | 0.007 | 0.83 | 10 | \$32.97 | Smart strip plug outlet for home office centers | 87.2% | 7.1% | 0.63 |
| 5061 | Smart Strip Plug Outlets - Entertainment Center | MF | LI | Retrofit | 62.1 | 100.0% | 62.1 | 0.009 | 0.90 | 10 | \$32.97 | Smart strip plug outlet for home entertainment centers | 107.8% | 4.9% | 0.81 |
| 5062 | Smart Strip Plug Outlets - Home Office | MF | ALL | NC | 48.9 | 100.0% | 48.9 | 0.007 | 0.83 | 10 | \$32.97 | Smart strip plug outlet for home office centers | 87.2% | 0.0% | 0.63 |
| 5063 | Smart Strip Plug Outlets - Entertainment Center | MF | ALL | NC | 62.1 | 100.0% | 62.1 | 0.009 | 0.90 | 10 | \$32.97 | Smart strip plug outlet for home entertainment centers | 107.8% | 0.0% | 0.81 |
| 5064 | ENERGY STAR Televisions > 50" | MF | ALL | NC | 197.1 | 50.0% | 98.6 | 0.054 | 0.17 | 6 | \$1.00 | Installation of high efficiency > 50" diameter television instead of a standard efficiency unit | 41.3% | 0.0% | 26.83 |
| 5065 | ENERGY STAR Televisions < 50" | MF | ALL | NC | 89.1 | 48.7% | 43.4 | 0.024 | 0.17 | 6 | \$1.00 | Installation of high efficiency < 50" diameter television instead of a standard efficiency unit | 96.4% | 0.0% | 11.81 |
| 5066 | ENERGY STAR Computer - Desktop | MF | ALL | NC | 165.6 | 42.7% | 70.7 | 0.022 | 0.76 | 4 | \$8.00 | Installation of high efficiency desktop computer instead of a standard efficiency unit | 63.0% | 0.0% | 2.01 |
| 5067 | ENERGY STAR Computer - Laptop | MF | ALL | NC | 52.8 | 40.8% | 21.5 | 0.007 | 0.76 | 4 | \$1.00 | Installation of high efficiency laptop computer instead of a standard efficiency unit | 80.0% | 0.0% | 4.90 |
| 5068 | ENERGY STAR Fax Machine | MF | ALL | NC | 52.1 | 30.0% | 15.6 | 0.002 | 1.00 | 4 | \$1.00 | Installation of high efficiency fax machine instead of a standard efficiency unit | 3.0% | 0.0% | 3.15 |
| 5069 | ENERGY STAR Copier | MF | ALL | NC | 182.5 | 25.7% | 46.9 | 0.022 | 0.28 | 6 | \$1.00 | Installation of high efficiency copier instead of a standard efficiency unit | 1.1% | 0.0% | 13.48 |
| 5070 | ENERGY STAR Printer | MF | ALL | NC | 43.8 | 55.0% | 24.1 | 0.006 | 0.59 | 5 | \$1.00 | Installation of high efficiency printer instead of a standard efficiency unit | 12.6% | 0.0% | 5.91 |
| 5071 | ENERGY STAR Multifunction | MF | ALL | NC | 70.1 | 66.3% | 46.4 | 0.011 | 0.59 | 6 | \$1.00 | Installation of high efficiency multifunction device instead of a standard efficiency unit | 30.3% | 0.0% | 13.34 |
| 5072 | ENERGY STAR Monitors | MF | ALL | NC | 73.6 | 32.4% | 23.8 | 0.013 | 0.26 | 4 | \$1.80 | Installation of high efficiency monitors instead of a standard efficiency unit | 63.0% | 0.0% | 2.67 |
| 6000 | Building Shell | | | | | | | | | | | | | | |
| 6001 | Ceiling Insulation: R-20 to R-60 | SFD | NLI | Retrofit | 7,873.0 | 5.4% | 429.0 | 0.061 | 0.65 | 25 | \$2,711.96 | Addition of R-20 ceiling insulation in adequately insulated homes with heat pumps | 0.7% | 72.9% | 0.09 |
| 6002 | Ceiling Insulation: R-8 to R-38 | SFD | NLI | Retrofit | 8,728.0 | 13.3% | 1,162.0 | 0.175 | 0.65 | 25 | \$1,871.62 | Addition of R-8 ceiling insulation in poorly insulated homes with heat pumps | 0.7% | 85.0% | 0.36 |
| 6003 | Exterior Wall Insulation: R-0 to R-13 | SFD | NLI | Retrofit | 14,956.0 | 48.1% | 7,195.0 | 0.584 | 0.65 | 25 | \$3,119.84 | Addition of exterior wall insulation in poorly homes with heat pumps | 0.7% | 79.0% | 1.25 |
| 6004 | Exterior Wall Insulation: R-0 to R-19 | SFD | NLI | Retrofit | 14,956.0 | 53.3% | 7,967.0 | 0.701 | 0.65 | 25 | \$3,963.04 | Addition of exterior wall insulation in poorly homes with heat pumps | 0.7% | 79.0% | 1.10 |
| 6005 | Floor Insulation: R-0 to R-19 | SFD | NLI | Retrofit | 9,755.0 | 3.5% | 341.0 | -0.215 | 0.65 | 25 | \$2,127.50 | Addition of floor insulation in homes with unconditioned basements or crawl spaces and heat pumps | 0.1% | 46.0% | 0.03 |
| 6006 | Basement Wall Insulation: R-0 to R-13 | SFD | NLI | Retrofit | 7,683.0 | 8.8% | 674.0 | -0.043 | 0.65 | 25 | \$2,713.60 | Addition of basement wall insulation in homes with poorly insulated conditioned basements and heat pumps | 0.0% | 46.0% | 0.12 |
| 6007 | Air Sealing: 13 ACH50 to 9 ACH50 | SFD | NLI | Retrofit | 9,429.0 | 16.5% | 1,556.0 | 0.004 | 0.65 | 15 | \$1,012.88 | Air sealing in poorly sealed homes with heat pumps | 0.7% | 65.0% | 0.78 |
| 6008 | Air Sealing: 9 ACH50 to 7 ACH50 | SFD | NLI | Retrofit | 7,873.0 | 8.8% | 693.0 | -0.002 | 0.65 | 15 | \$1,012.88 | Air sealing in adequately sealed homes with heat pumps | 0.7% | 68.0% | 0.34 |
| 6009 | Duct Sealing: 38.5% to 25% (CFM @25Pa) | SFD | NLI | Retrofit | 8,107.0 | 2.9% | 234.0 | 0.021 | 0.65 | 20 | \$744.00 | Duct sealing in homes with poorly sealed ducts and heat pumps | 0.7% | 65.0% | 0.17 |
| 6010 | Duct Sealing: 25% to 16.25% (CFM @25Pa) | SFD | NLI | Retrofit | 7,873.0 | 2.0% | 159.0 | 0.013 | 0.65 | 20 | \$744.00 | Duct sealing in homes with adequately sealed ducts and heat pumps | 0.7% | 56.0% | 0.12 |
| 6011 | Duct Insulation (R-0 to R-8) | SFD | NLI | Retrofit | 8,075.0 | 3.0% | 245.0 | 0.004 | 0.65 | 20 | \$903.00 | Installation of duct insulation in homes with poorly insulated ducts and heat pumps | 0.7% | 42.0% | 0.14 |

Measure Assumptions - Penelec

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|--|-----------------|---------------|-------------------|
| 6012 | Window Film (U=0.51, SHGC=0.24) | SFD | NLI | Retrofit | 9,339.0 | 11.6% | 1,080.0 | 0.621 | 0.65 | 10 | \$2,496.00 | Installation of window film on single-pane windows in homes with heat pumps | 0.7% | 83.0% | 0.24 |
| 6013 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFD | NLI | Retrofit | 7,873.0 | 4.8% | 376.0 | 0.229 | 0.65 | 20 | \$4,735.26 | Installation of ENERGY STAR windows to replace single-pane windows in homes with heat pumps | 0.7% | 83.0% | 0.06 |
| 6014 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFD | ALL | ROB | 7,873.0 | 4.8% | 376.0 | 0.229 | 0.65 | 20 | \$191.61 | Installation of ENERGY STAR windows instead of double-pane windows in homes with heat pumps | 0.7% | 43.0% | 1.55 |
| 6015 | Radiant Barrier | SFD | ALL | Retrofit | 7,873.0 | 0.8% | 63.0 | 0.048 | 0.65 | 25 | \$1,083.01 | Installation of radiant barriers in homes with heat pumps | 0.7% | 10.0% | 0.05 |
| 6016 | Low Income Weatherization Package | SFD | LI | Retrofit | 10,125.0 | 28.0% | 2,832.0 | 0.096 | 0.65 | 20 | \$7,065.86 | Installation of package of weatherization measures in homes with heat pumps | 0.7% | 72.9% | 0.21 |
| 6017 | Window Film (U=0.51, SHGC=0.24) | SFD | LI | Retrofit | 9,339.0 | 11.6% | 1,080.0 | 0.621 | 0.65 | 10 | \$2,496.00 | Installation of ENERGY STAR windows to replace single-pane windows in homes with heat pumps | 0.7% | 83.0% | 0.24 |
| 6018 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFD | LI | Retrofit | 7,873.0 | 4.8% | 376.0 | 0.229 | 0.65 | 20 | \$4,735.26 | Installation of ENERGY STAR windows instead of double-pane windows in homes with heat pumps | 0.7% | 83.0% | 0.06 |
| 6019 | Residential New Construction Tier 1 (15% more efficient) | SFD | ALL | NC | 6,960.0 | 28.1% | 1,956.0 | 0.004 | 0.65 | 20 | \$2,561.00 | New home built 15% more efficient than code - in homes with heat pumps | 9.3% | 0.0% | 0.39 |
| 6020 | Residential New Construction Tier 2 (30% more efficient) | SFD | ALL | NC | 6,960.0 | 33.2% | 2,313.0 | 0.054 | 0.65 | 20 | \$3,742.54 | New home built 30% more efficient than code - in homes with heat pumps | 9.3% | 0.0% | 0.32 |
| 6021 | Ceiling Insulation: R-20 to R-60 | SFD | NLI | Retrofit | 17,526.0 | 5.3% | 925.0 | 0.079 | 0.65 | 25 | \$2,711.96 | Addition of R-20 ceiling insulation in adequately insulated homes with non-heat pump electric heating | 8.6% | 72.9% | 0.19 |
| 6022 | Ceiling Insulation: R-8 to R-38 | SFD | NLI | Retrofit | 19,311.0 | 12.7% | 2,446.0 | 0.223 | 0.65 | 25 | \$1,871.62 | Addition of R-8 ceiling insulation in poorly insulated homes with non-heat pump electric heating | 8.6% | 85.0% | 0.71 |
| 6023 | Exterior Wall Insulation: R-0 to R-13 | SFD | NLI | Retrofit | 30,270.0 | 42.9% | 12,987.0 | 0.721 | 0.65 | 25 | \$3,119.84 | Addition of exterior wall insulation in poorly homes with non-heat pump electric heating | 8.6% | 79.0% | 2.21 |
| 6024 | Exterior Wall Insulation: R-0 to R-19 | SFD | NLI | Retrofit | 30,270.0 | 48.5% | 14,688.0 | 0.866 | 0.65 | 25 | \$3,963.04 | Addition of exterior wall insulation in poorly homes with non-heat pump electric heating | 8.6% | 79.0% | 1.97 |
| 6025 | Floor Insulation: R-0 to R-19 | SFD | NLI | Retrofit | 21,290.0 | 8.4% | 1,785.0 | -0.275 | 0.65 | 25 | \$2,127.50 | Addition of floor insulation in homes with unconditioned basements or crawl spaces and non-heat pump electric heating | 0.7% | 46.0% | 0.36 |
| 6026 | Basement Wall Insulation: R-0 to R-13 | SFD | NLI | Retrofit | 18,566.0 | 14.8% | 2,741.0 | 0.191 | 0.65 | 25 | \$2,713.60 | Addition of basement wall insulation in homes with poorly insulated conditioned basements and non-heat pump electric heating | 0.6% | 46.0% | 0.54 |
| 6027 | Air Sealing: 13 ACH50 to 9 ACH50 | SFD | NLI | Retrofit | 20,644.0 | 15.1% | 3,118.0 | 0.006 | 0.65 | 15 | \$1,012.88 | Air sealing in poorly sealed homes with non-heat pump electric heating | 8.6% | 65.0% | 1.56 |
| 6028 | Air Sealing: 9 ACH50 to 7 ACH50 | SFD | NLI | Retrofit | 17,526.0 | 8.7% | 1,533.0 | 0.001 | 0.65 | 15 | \$1,012.88 | Air sealing in adequately sealed homes with non-heat pump electric heating | 8.6% | 68.0% | 0.76 |
| 6029 | Duct Sealing: 38.5% to 25% (CFM @25Pa) | SFD | NLI | Retrofit | 17,551.0 | 0.1% | 25.0 | 0.022 | 0.65 | 20 | \$744.00 | Duct sealing in homes with poorly sealed ducts and electric furnaces | 0.9% | 64.0% | 0.03 |
| 6030 | Duct Sealing: 25% to 16.25% (CFM @25Pa) | SFD | NLI | Retrofit | 17,526.0 | 0.1% | 16.0 | 0.019 | 0.65 | 20 | \$744.00 | Duct sealing in homes with adequately sealed ducts and electric furnaces | 0.9% | 56.0% | 0.02 |
| 6031 | Duct Insulation (R-0 to R-8) | SFD | NLI | Retrofit | 17,531.0 | 0.0% | 7.0 | 0.005 | 0.65 | 20 | \$903.00 | Installation of duct insulation in homes with poorly insulated ducts and electric furnaces | 0.9% | 42.0% | 0.01 |
| 6032 | Window Film (U=0.51, SHGC=0.24) | SFD | NLI | Retrofit | 20,464.0 | 8.6% | 1,752.0 | 0.769 | 0.65 | 10 | \$2,496.00 | Installation of window film on single-pane windows in homes with non-heat pump electric heating | 8.6% | 83.0% | 0.36 |
| 6033 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFD | NLI | Retrofit | 17,526.0 | 3.8% | 665.0 | 0.291 | 0.65 | 20 | \$4,735.26 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-heat pump electric heating | 8.6% | 83.0% | 0.10 |
| 6034 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFD | ALL | ROB | 17,526.0 | 3.8% | 665.0 | 0.291 | 0.65 | 20 | \$191.61 | Installation of ENERGY STAR windows instead of double-pane windows in homes with non-heat pump electric heating | 8.6% | 43.0% | 2.46 |
| 6035 | Radiant Barrier | SFD | ALL | Retrofit | 17,526.0 | 0.6% | 108.0 | 0.064 | 0.65 | 25 | \$1,083.01 | Installation of radiant barriers in homes with non-heat pump electric heating | 8.6% | 10.0% | 0.08 |
| 6036 | Low Income Weatherization Package | SFD | LI | Retrofit | 21,860.0 | 24.6% | 5,370.0 | 0.123 | 0.65 | 20 | \$7,065.86 | Installation of package of weatherization measures in homes with non-heat pump electric heating | 8.6% | 72.9% | 0.39 |
| 6037 | Window Film (U=0.51, SHGC=0.24) | SFD | LI | Retrofit | 20,464.0 | 8.6% | 1,752.0 | 0.769 | 0.65 | 10 | \$2,496.00 | Installation of window film on single-pane windows in homes with non-heat pump electric heating | 8.6% | 83.0% | 0.36 |
| 6038 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFD | LI | Retrofit | 17,526.0 | 3.8% | 665.0 | 0.291 | 0.65 | 20 | \$4,735.26 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-heat pump electric heating | 8.6% | 83.0% | 0.10 |
| 6039 | Ceiling Insulation: R-20 to R-60 | SFD | NLI | Retrofit | 1,482.0 | 4.3% | 63.0 | 0.073 | 0.65 | 25 | \$2,711.96 | Addition of R-20 ceiling insulation in adequately insulated homes with non-electric heating | 90.7% | 72.9% | 0.03 |
| 6040 | Ceiling Insulation: R-8 to R-38 | SFD | NLI | Retrofit | 1,604.0 | 10.3% | 166.0 | 0.217 | 0.65 | 25 | \$1,871.62 | Addition of R-8 ceiling insulation in poorly insulated homes with non-electric heating | 90.7% | 85.0% | 0.10 |
| 6041 | Exterior Wall Insulation: R-0 to R-13 | SFD | NLI | Retrofit | 2,176.0 | 32.4% | 706.0 | 0.708 | 0.65 | 25 | \$3,119.84 | Addition of exterior wall insulation in poorly homes with non-electric heating | 90.7% | 79.0% | 0.23 |
| 6042 | Exterior Wall Insulation: R-0 to R-19 | SFD | NLI | Retrofit | 2,176.0 | 36.5% | 795.0 | 0.856 | 0.65 | 25 | \$3,963.04 | Addition of exterior wall insulation in poorly homes with non-electric heating | 90.7% | 79.0% | 0.21 |
| 6043 | Floor Insulation: R-0 to R-19 | SFD | NLI | Retrofit | 1,463.0 | -11.8% | -172.0 | -0.259 | 0.65 | 25 | \$2,127.50 | Addition of floor insulation in homes with unconditioned basements or crawl spaces and non-electric heating | 7.5% | 46.0% | -0.10 |
| 6044 | Basement Wall Insulation: R-0 to R-13 | SFD | NLI | Retrofit | 1,430.0 | 0.1% | 1.0 | -0.063 | 0.65 | 25 | \$2,713.60 | Addition of basement wall insulation in homes with poorly insulated conditioned basements and non-electric heating | 6.6% | 46.0% | -0.01 |
| 6045 | Air Sealing: 13 ACH50 to 9 ACH50 | SFD | NLI | Retrofit | 1,578.0 | 6.1% | 96.0 | 0.009 | 0.65 | 15 | \$1,012.88 | Air sealing in poorly sealed homes with non-electric heating | 90.7% | 65.0% | 0.06 |
| 6046 | Air Sealing: 9 ACH50 to 7 ACH50 | SFD | NLI | Retrofit | 1,482.0 | 2.8% | 42.0 | -0.005 | 0.65 | 15 | \$1,012.88 | Air sealing in adequately sealed homes with non-electric heating | 90.7% | 68.0% | 0.02 |

Measure Assumptions - Penelec

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|--|-----------------|---------------|-------------------|
| 6047 | Duct Sealing: 38.5% to 25% (CFM @25Pa) | SFD | NLI | Retrofit | 1,527.0 | 2.9% | 45.0 | 0.028 | 0.65 | 20 | \$744.00 | Duct sealing in homes with poorly sealed ducts and non-electric furnaces | 51.1% | 64.0% | 0.05 |
| 6048 | Duct Sealing: 25% to 16.25% (CFM @25Pa) | SFD | NLI | Retrofit | 1,482.0 | 1.8% | 27.0 | 0.014 | 0.65 | 20 | \$744.00 | Duct sealing in homes with adequately sealed ducts and non-electric furnaces | 51.1% | 56.0% | 0.03 |
| 6049 | Duct Insulation (R-0 to R-8) | SFD | NLI | Retrofit | 1,509.0 | 2.1% | 31.0 | 0.006 | 0.65 | 20 | \$903.00 | Installation of duct insulation in homes with poorly insulated ducts and non-electric furnaces | 51.1% | 42.0% | 0.02 |
| 6050 | Window Film (U=0.51, SHGC=0.24) | SFD | NLI | Retrofit | 1,698.0 | 26.4% | 448.0 | 0.787 | 0.65 | 10 | \$2,496.00 | Installation of window film on single-pane windows in homes with non-electric heating | 90.7% | 83.0% | 0.18 |
| 6051 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFD | NLI | Retrofit | 1,482.0 | 11.1% | 164.0 | 0.292 | 0.65 | 20 | \$4,735.26 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-electric heating | 90.7% | 83.0% | 0.05 |
| 6052 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFD | ALL | ROB | 1,482.0 | 11.1% | 164.0 | 0.292 | 0.65 | 20 | \$191.61 | Installation of ENERGY STAR windows instead of double-pane windows in homes with non-electric heating | 90.7% | 43.0% | 1.18 |
| 6053 | Radiant Barrier | SFD | ALL | Retrofit | 1,482.0 | 2.2% | 33.0 | 0.059 | 0.65 | 25 | \$1,083.01 | Installation of radiant barriers in homes with non-electric heating | 90.7% | 10.0% | 0.04 |
| 6054 | Low Income Weatherization Package | SFD | LI | Retrofit | 1,641.0 | 7.6% | 125.0 | 0.026 | 0.65 | 20 | \$2,330.93 | Installation of package of weatherization measures in homes with non-electric heating | 90.7% | 72.9% | 0.04 |
| 6055 | Window Film (U=0.51, SHGC=0.24) | SFD | LI | Retrofit | 1,698.0 | 26.4% | 448.0 | 0.787 | 0.65 | 10 | \$2,496.00 | Installation of window film on single-pane windows in homes with non-electric heating | 90.7% | 83.0% | 0.18 |
| 6056 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFD | LI | Retrofit | 1,482.0 | 11.1% | 164.0 | 0.292 | 0.65 | 20 | \$4,735.26 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-electric heating | 90.7% | 83.0% | 0.05 |
| 6057 | Residential New Construction Tier 1 (15% more efficient) | SFD | ALL | NC | 1,182.0 | 11.1% | 131.0 | 0.008 | 0.65 | 20 | \$2,561.00 | New home built 15% more efficient than code - in homes with non-electric heating | 90.7% | 0.0% | 0.03 |
| 6058 | Residential New Construction Tier 2 (30% more efficient) | SFD | ALL | NC | 1,182.0 | 33.2% | 393.0 | 0.202 | 0.65 | 20 | \$4,971.41 | New home built 30% more efficient than code - in homes with non-electric heating | 90.7% | 0.0% | 0.06 |
| 6059 | Ceiling Insulation: R-20 to R-60 | SFA | NLI | Retrofit | 6,142.0 | 6.5% | 398.0 | 0.065 | 0.65 | 25 | \$2,567.00 | Addition of R-20 ceiling insulation in adequately insulated homes with heat pumps | 0.7% | 72.9% | 0.09 |
| 6060 | Ceiling Insulation: R-8 to R-38 | SFA | NLI | Retrofit | 6,907.0 | 15.2% | 1,048.0 | 0.176 | 0.65 | 25 | \$1,771.58 | Addition of R-8 ceiling insulation in poorly insulated homes with heat pumps | 0.7% | 85.0% | 0.34 |
| 6061 | Exterior Wall Insulation: R-0 to R-13 | SFA | NLI | Retrofit | 9,500.0 | 36.0% | 3,417.0 | 0.299 | 0.65 | 25 | \$2,968.88 | Addition of exterior wall insulation in poorly homes with heat pumps | 0.7% | 79.0% | 0.63 |
| 6062 | Exterior Wall Insulation: R-0 to R-19 | SFA | NLI | Retrofit | 9,500.0 | 40.3% | 3,828.0 | 0.355 | 0.65 | 25 | \$3,771.28 | Addition of exterior wall insulation in poorly homes with heat pumps | 0.7% | 79.0% | 0.56 |
| 6063 | Floor Insulation: R-0 to R-19 | SFA | NLI | Retrofit | 6,428.0 | 5.2% | 335.0 | -0.162 | 0.65 | 25 | \$1,572.50 | Addition of floor insulation in homes with unconditioned basements or crawl spaces and heat pumps | 0.1% | 46.0% | 0.06 |
| 6064 | Basement Wall Insulation: R-0 to R-13 | SFA | NLI | Retrofit | 5,076.0 | 10.3% | 521.0 | -0.023 | 0.65 | 25 | \$2,406.40 | Addition of basement wall insulation in homes with poorly insulated conditioned basements and heat pumps | 0.0% | 46.0% | 0.10 |
| 6065 | Air Sealing: 13 ACH50 to 9 ACH50 | SFA | NLI | Retrofit | 7,479.0 | 17.9% | 1,337.0 | 0.008 | 0.65 | 15 | \$748.00 | Air sealing in poorly sealed homes with heat pumps | 0.7% | 65.0% | 0.91 |
| 6066 | Air Sealing: 9 ACH50 to 7 ACH50 | SFA | NLI | Retrofit | 6,142.0 | 10.3% | 630.0 | 0.006 | 0.65 | 15 | \$748.00 | Air sealing in adequately sealed homes with heat pumps | 0.7% | 68.0% | 0.43 |
| 6067 | Duct Sealing: 38.5% to 25% (CFM @25Pa) | SFA | NLI | Retrofit | 6,335.0 | 3.0% | 193.0 | 0.010 | 0.65 | 20 | \$744.00 | Duct sealing in homes with poorly sealed ducts and heat pumps | 0.7% | 64.0% | 0.14 |
| 6068 | Duct Sealing: 25% to 16.25% (CFM @25Pa) | SFA | NLI | Retrofit | 6,142.0 | 2.1% | 131.0 | 0.008 | 0.65 | 20 | \$744.00 | Duct sealing in homes with adequately sealed ducts and heat pumps | 0.7% | 56.0% | 0.09 |
| 6069 | Duct Insulation (R-0 to R-8) | SFA | NLI | Retrofit | 6,304.0 | 3.1% | 193.0 | 0.000 | 0.65 | 20 | \$666.40 | Installation of duct insulation in homes with poorly insulated ducts and heat pumps | 0.7% | 42.0% | 0.15 |
| 6070 | Window Film (U=0.51, SHGC=0.24) | SFA | NLI | Retrofit | 7,075.0 | 9.9% | 699.0 | 0.428 | 0.65 | 10 | \$1,680.00 | Installation of window film on single-pane windows in homes with heat pumps | 0.7% | 83.0% | 0.24 |
| 6071 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFA | NLI | Retrofit | 6,142.0 | 4.3% | 266.0 | 0.171 | 0.65 | 20 | \$3,187.20 | Installation of ENERGY STAR windows to replace single-pane windows in homes with heat pumps | 0.7% | 83.0% | 0.07 |
| 6072 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFA | ALL | ROB | 6,142.0 | 4.3% | 266.0 | 0.171 | 0.65 | 20 | \$128.97 | Installation of ENERGY STAR windows instead of double-pane windows in homes with heat pumps | 0.7% | 43.0% | 1.66 |
| 6073 | Low Income Weatherization Package | SFA | LI | Retrofit | 7,829.0 | 28.2% | 2,210.0 | 0.052 | 0.65 | 20 | \$4,938.29 | Installation of package of weatherization measures in homes with heat pumps | 0.7% | 72.9% | 0.23 |
| 6074 | Window Film (U=0.51, SHGC=0.24) | SFA | LI | Retrofit | 7,075.0 | 9.9% | 699.0 | 0.428 | 0.65 | 10 | \$1,680.00 | Installation of window film on single-pane windows in homes with heat pumps | 0.7% | 83.0% | 0.24 |
| 6075 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFA | LI | Retrofit | 6,142.0 | 4.3% | 266.0 | 0.171 | 0.65 | 20 | \$3,187.20 | Installation of ENERGY STAR windows to replace single-pane windows in homes with heat pumps | 0.7% | 83.0% | 0.07 |
| 6076 | Residential New Construction Tier 1 (15% more efficient) | SFA | ALL | NC | 5,764.0 | 35.7% | 2,060.0 | 0.030 | 0.65 | 20 | \$2,561.00 | New home built 15% more efficient than code - in homes with heat pumps | 9.3% | 0.0% | 0.41 |
| 6077 | Residential New Construction Tier 2 (30% more efficient) | SFA | ALL | NC | 5,764.0 | 36.5% | 2,104.0 | 0.074 | 0.65 | 20 | \$3,345.67 | New home built 30% more efficient than code - in homes with heat pumps | 9.3% | 0.0% | 0.33 |
| 6078 | Ceiling Insulation: R-20 to R-60 | SFA | NLI | Retrofit | 12,890.0 | 7.1% | 913.0 | 0.079 | 0.65 | 25 | \$2,567.00 | Addition of R-20 ceiling insulation in adequately insulated homes with non-heat pump electric heating | 8.6% | 72.9% | 0.19 |
| 6079 | Ceiling Insulation: R-8 to R-38 | SFA | NLI | Retrofit | 14,631.0 | 16.3% | 2,392.0 | 0.220 | 0.65 | 25 | \$1,771.58 | Addition of R-8 ceiling insulation in poorly insulated homes with non-heat pump electric heating | 8.6% | 85.0% | 0.74 |
| 6080 | Exterior Wall Insulation: R-0 to R-13 | SFA | NLI | Retrofit | 20,176.0 | 36.8% | 7,423.0 | 0.361 | 0.65 | 25 | \$2,968.88 | Addition of exterior wall insulation in poorly homes with non-heat pump electric heating | 8.6% | 79.0% | 1.32 |
| 6081 | Exterior Wall Insulation: R-0 to R-19 | SFA | NLI | Retrofit | 20,176.0 | 41.5% | 8,370.0 | 0.432 | 0.65 | 25 | \$3,771.28 | Addition of exterior wall insulation in poorly homes with non-heat pump electric heating | 8.6% | 79.0% | 1.17 |

Measure Assumptions - Penelec

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|--|-----------------|---------------|-------------------|
| 6082 | Floor Insulation: R-0 to R-19 | SFA | NLI | Retrofit | 14,172.0 | 10.6% | 1,509.0 | -0.211 | 0.65 | 25 | \$1,572.50 | Addition of floor insulation in homes with unconditioned basements or crawl spaces and non-heat pump electric heating | 0.7% | 46.0% | 0.42 |
| 6083 | Basement Wall Insulation: R-0 to R-13 | SFA | NLI | Retrofit | 12,496.0 | 20.5% | 2,557.0 | 0.258 | 0.65 | 25 | \$2,406.40 | Addition of basement wall insulation in homes with poorly insulated conditioned basements and non-heat pump electric heating | 0.6% | 46.0% | 0.59 |
| 6084 | Air Sealing: 13 ACH50 to 9 ACH50 | SFA | NLI | Retrofit | 15,928.0 | 19.1% | 3,038.0 | 0.010 | 0.65 | 15 | \$748.00 | Air sealing in poorly sealed homes with non-heat pump electric heating | 8.6% | 65.0% | 2.06 |
| 6085 | Air Sealing: 9 ACH50 to 7 ACH50 | SFA | NLI | Retrofit | 12,890.0 | 11.6% | 1,491.0 | 0.010 | 0.65 | 15 | \$748.00 | Air sealing in adequately sealed homes with non-heat pump electric heating | 8.6% | 68.0% | 1.01 |
| 6086 | Duct Sealing: 38.5% to 25% (CFM @25Pa) | SFA | NLI | Retrofit | 12,905.0 | 0.1% | 15.0 | 0.012 | 0.65 | 20 | \$744.00 | Duct sealing in homes with poorly sealed ducts and electric furnaces | 0.9% | 64.0% | 0.02 |
| 6087 | Duct Sealing: 25% to 16.25% (CFM @25Pa) | SFA | NLI | Retrofit | 12,890.0 | 0.1% | 10.0 | 0.010 | 0.65 | 20 | \$744.00 | Duct sealing in homes with adequately sealed ducts and electric furnaces | 0.9% | 56.0% | 0.01 |
| 6088 | Duct Insulation (R-0 to R-8) | SFA | NLI | Retrofit | 12,890.0 | 0.0% | 0.0 | 0.001 | 0.65 | 20 | \$666.40 | Installation of duct insulation in homes with poorly insulated ducts and electric furnaces | 0.9% | 42.0% | 0.00 |
| 6089 | Window Film (U=0.51, SHGC=0.24) | SFA | NLI | Retrofit | 14,967.0 | 8.4% | 1,264.0 | 0.540 | 0.65 | 10 | \$1,680.00 | Installation of window film on single-pane windows in homes with non-heat pump electric heating | 8.6% | 83.0% | 0.38 |
| 6090 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFA | NLI | Retrofit | 12,890.0 | 3.8% | 494.0 | 0.210 | 0.65 | 20 | \$3,187.20 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-heat pump electric heating | 8.6% | 83.0% | 0.11 |
| 6091 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFA | ALL | ROB | 12,890.0 | 3.8% | 494.0 | 0.210 | 0.65 | 20 | \$128.97 | Installation of ENERGY STAR windows instead of double-pane windows in homes with non-heat pump electric heating | 8.6% | 43.0% | 2.69 |
| 6092 | Low Income Weatherization Package | SFA | LI | Retrofit | 16,771.0 | 29.3% | 4,906.0 | 0.062 | 0.65 | 20 | \$4,938.29 | Installation of package of weatherization measures in homes with non-heat pump electric heating | 8.6% | 72.9% | 0.51 |
| 6093 | Window Film (U=0.51, SHGC=0.24) | SFA | LI | Retrofit | 14,967.0 | 8.4% | 1,264.0 | 0.540 | 0.65 | 10 | \$1,680.00 | Installation of window film on single-pane windows in homes with non-heat pump electric heating | 8.6% | 83.0% | 0.38 |
| 6094 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFA | LI | Retrofit | 12,890.0 | 3.8% | 494.0 | 0.210 | 0.65 | 20 | \$3,187.20 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-heat pump electric heating | 8.6% | 83.0% | 0.11 |
| 6095 | Ceiling Insulation: R-20 to R-60 | SFA | NLI | Retrofit | 1,368.0 | 4.4% | 60.0 | 0.079 | 0.65 | 25 | \$2,567.00 | Addition of R-20 ceiling insulation in adequately insulated homes with non-electric heating | 90.7% | 72.9% | 0.03 |
| 6096 | Ceiling Insulation: R-8 to R-38 | SFA | NLI | Retrofit | 1,485.0 | 10.8% | 160.0 | 0.215 | 0.65 | 25 | \$1,771.58 | Addition of R-8 ceiling insulation in poorly insulated homes with non-electric heating | 90.7% | 85.0% | 0.11 |
| 6097 | Exterior Wall Insulation: R-0 to R-13 | SFA | NLI | Retrofit | 1,795.0 | 24.2% | 434.0 | 0.361 | 0.65 | 25 | \$2,968.88 | Addition of exterior wall insulation in poorly homes with non-electric heating | 90.7% | 79.0% | 0.14 |
| 6098 | Exterior Wall Insulation: R-0 to R-19 | SFA | NLI | Retrofit | 1,795.0 | 27.3% | 490.0 | 0.428 | 0.65 | 25 | \$3,771.28 | Addition of exterior wall insulation in poorly homes with non-electric heating | 90.7% | 79.0% | 0.12 |
| 6099 | Floor Insulation: R-0 to R-19 | SFA | NLI | Retrofit | 1,247.0 | -11.5% | -144.0 | -0.192 | 0.65 | 25 | \$1,572.50 | Addition of floor insulation in homes with unconditioned basements or crawl spaces and non-electric heating | 7.5% | 46.0% | -0.11 |
| 6100 | Basement Wall Insulation: R-0 to R-13 | SFA | NLI | Retrofit | 1,224.0 | -0.1% | -1.0 | -0.028 | 0.65 | 25 | \$2,406.40 | Addition of basement wall insulation in homes with poorly insulated conditioned basements and non-electric heating | 6.6% | 46.0% | -0.01 |
| 6101 | Air Sealing: 13 ACH50 to 9 ACH50 | SFA | NLI | Retrofit | 1,462.0 | 6.4% | 94.0 | 0.012 | 0.65 | 15 | \$748.00 | Air sealing in poorly sealed homes with non-electric heating | 90.7% | 65.0% | 0.08 |
| 6102 | Air Sealing: 9 ACH50 to 7 ACH50 | SFA | NLI | Retrofit | 1,368.0 | 3.3% | 45.0 | 0.007 | 0.65 | 15 | \$748.00 | Air sealing in adequately sealed homes with non-electric heating | 90.7% | 68.0% | 0.04 |
| 6103 | Duct Sealing: 38.5% to 25% (CFM @25Pa) | SFA | NLI | Retrofit | 1,399.0 | 2.2% | 31.0 | 0.017 | 0.65 | 20 | \$744.00 | Duct sealing in homes with poorly sealed ducts and non-electric furnaces | 51.1% | 64.0% | 0.03 |
| 6104 | Duct Sealing: 25% to 16.25% (CFM @25Pa) | SFA | NLI | Retrofit | 1,368.0 | 1.4% | 19.0 | 0.009 | 0.65 | 20 | \$744.00 | Duct sealing in homes with adequately sealed ducts and non-electric furnaces | 51.1% | 56.0% | 0.02 |
| 6105 | Duct Insulation (R-0 to R-8) | SFA | NLI | Retrofit | 1,383.0 | 1.2% | 17.0 | 0.004 | 0.65 | 20 | \$666.40 | Installation of duct insulation in homes with poorly insulated ducts and non-electric furnaces | 51.1% | 42.0% | 0.02 |
| 6106 | Window Film (U=0.51, SHGC=0.24) | SFA | NLI | Retrofit | 1,535.0 | 25.8% | 396.0 | 0.542 | 0.65 | 10 | \$1,680.00 | Installation of window film on single-pane windows in homes with non-electric heating | 90.7% | 83.0% | 0.20 |
| 6107 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFA | NLI | Retrofit | 1,368.0 | 11.2% | 153.0 | 0.213 | 0.65 | 20 | \$3,187.20 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-electric heating | 90.7% | 83.0% | 0.06 |
| 6108 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFA | ALL | ROB | 1,368.0 | 11.2% | 153.0 | 0.213 | 0.65 | 20 | \$128.97 | Installation of ENERGY STAR windows instead of double-pane windows in homes with non-electric heating | 90.7% | 43.0% | 1.43 |
| 6109 | Low Income Weatherization Package | SFA | LI | Retrofit | 1,487.0 | 7.7% | 115.0 | 0.022 | 0.65 | 20 | \$1,915.64 | Installation of package of weatherization measures in homes with non-electric heating | 90.7% | 72.9% | 0.04 |
| 6110 | Window Film (U=0.51, SHGC=0.24) | SFA | LI | Retrofit | 1,535.0 | 25.8% | 396.0 | 0.542 | 0.65 | 10 | \$1,680.00 | Installation of window film on single-pane windows in homes with non-electric heating | 90.7% | 83.0% | 0.20 |
| 6111 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFA | LI | Retrofit | 1,368.0 | 11.2% | 153.0 | 0.213 | 0.65 | 20 | \$3,187.20 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-electric heating | 90.7% | 83.0% | 0.06 |
| 6112 | Residential New Construction Tier 1 (15% more efficient) | SFA | ALL | NC | 1,076.0 | 12.5% | 135.0 | 0.034 | 0.65 | 20 | \$2,561.00 | New home built 15% more efficient than code - in homes with non-electric heating | 90.7% | 0.0% | 0.04 |
| 6113 | Residential New Construction Tier 2 (30% more efficient) | SFA | ALL | NC | 1,076.0 | 23.2% | 250.0 | 0.177 | 0.65 | 20 | \$4,302.19 | New home built 30% more efficient than code - in homes with non-electric heating | 90.7% | 0.0% | 0.05 |
| 6114 | Exterior Wall Insulation: R-0 to R-13 | MF | NLI | Retrofit | 3,751.0 | 35.7% | 1,339.0 | 0.138 | 0.65 | 25 | \$1,509.60 | Addition of exterior wall insulation in poorly homes with heat pumps | 0.7% | 79.0% | 0.49 |
| 6115 | Exterior Wall Insulation: R-0 to R-19 | MF | NLI | Retrofit | 3,751.0 | 40.2% | 1,509.0 | 0.163 | 0.65 | 25 | \$1,917.60 | Addition of exterior wall insulation in poorly homes with heat pumps | 0.7% | 79.0% | 0.44 |
| 6116 | Air Sealing: 13 ACH50 to 9 ACH50 | MF | NLI | Retrofit | 2,907.0 | 16.2% | 470.0 | 0.013 | 0.65 | 15 | \$385.00 | Air sealing in poorly sealed homes with heat pumps | 0.7% | 65.0% | 0.63 |

Measure Assumptions - Penelec

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|---|-----------------|---------------|-------------------|
| 6117 | Air Sealing: 9 ACH50 to 7 ACH50 | MF | NLI | Retrofit | 2,437.0 | 9.4% | 228.0 | 0.007 | 0.65 | 15 | \$385.00 | Air sealing in adequately sealed homes with heat pumps | 0.7% | 68.0% | 0.31 |
| 6118 | Duct Sealing: 38.5% to 25% (CFM @25Pa) | MF | NLI | Retrofit | 2,639.0 | 7.7% | 202.0 | 0.079 | 0.65 | 20 | \$744.00 | Duct sealing in homes with poorly sealed ducts and heat pumps | 0.7% | 64.0% | 0.19 |
| 6119 | Duct Sealing: 25% to 16.25% (CFM @25Pa) | MF | NLI | Retrofit | 2,437.0 | 4.9% | 119.0 | 0.049 | 0.65 | 20 | \$744.00 | Duct sealing in homes with adequately sealed ducts and heat pumps | 0.7% | 56.0% | 0.11 |
| 6120 | Duct Insulation (R-0 to R-8) | MF | NLI | Retrofit | 2,678.0 | 10.5% | 281.0 | 0.126 | 0.65 | 20 | \$453.60 | Installation of duct insulation in homes with poorly insulated ducts and heat pumps | 0.7% | 42.0% | 0.44 |
| 6121 | Window Film (U=0.51, SHGC=0.24) | MF | NLI | Retrofit | 3,064.0 | 18.6% | 569.0 | 0.247 | 0.65 | 10 | \$1,128.00 | Installation of window film on single-pane windows in homes with heat pumps | 0.7% | 83.0% | 0.25 |
| 6122 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | MF | NLI | Retrofit | 2,437.0 | 9.4% | 230.0 | 0.100 | 0.65 | 20 | \$2,139.97 | Installation of ENERGY STAR windows to replace single-pane windows in homes with heat pumps | 0.7% | 83.0% | 0.08 |
| 6123 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | MF | ALL | ROB | 2,437.0 | 9.4% | 230.0 | 0.100 | 0.65 | 20 | \$86.59 | Installation of ENERGY STAR windows instead of double-pane windows in homes with heat pumps | 0.7% | 43.0% | 1.88 |
| 6124 | Low Income Weatherization Package | MF | LI | Retrofit | 3,031.0 | 24.3% | 737.0 | 0.080 | 0.65 | 20 | \$1,828.02 | Installation of package of weatherization measures in homes with heat pumps | 0.7% | 72.9% | 0.22 |
| 6125 | Window Film (U=0.51, SHGC=0.24) | MF | LI | Retrofit | 3,064.0 | 18.6% | 569.0 | 0.247 | 0.65 | 10 | \$1,128.00 | Installation of window film on single-pane windows in homes with heat pumps | 0.7% | 83.0% | 0.25 |
| 6126 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | MF | LI | Retrofit | 2,437.0 | 9.4% | 230.0 | 0.100 | 0.65 | 20 | \$2,139.97 | Installation of ENERGY STAR windows to replace single-pane windows in homes with heat pumps | 0.7% | 83.0% | 0.08 |
| 6127 | Residential New Construction Tier 1 (15% more efficient) | MF | ALL | NC | 1,842.0 | 28.0% | 515.0 | 0.065 | 0.65 | 20 | \$2,561.00 | New home built 15% more efficient than code - in homes with heat pumps | 9.3% | 0.0% | 0.11 |
| 6128 | Residential New Construction Tier 2 (30% more efficient) | MF | ALL | NC | 1,842.0 | 32.0% | 589.0 | 0.074 | 0.65 | 20 | \$3,345.67 | New home built 30% more efficient than code - in homes with heat pumps | 9.3% | 0.0% | 0.10 |
| 6129 | Exterior Wall Insulation: R-0 to R-13 | MF | NLI | Retrofit | 6,644.0 | 41.7% | 2,769.0 | 0.171 | 0.65 | 25 | \$1,509.60 | Addition of exterior wall insulation in poorly homes with non-heat pump electric heating | 8.6% | 79.0% | 0.98 |
| 6130 | Exterior Wall Insulation: R-0 to R-19 | MF | NLI | Retrofit | 6,644.0 | 46.9% | 3,113.0 | 0.201 | 0.65 | 25 | \$1,917.60 | Addition of exterior wall insulation in poorly homes with non-heat pump electric heating | 8.6% | 79.0% | 0.87 |
| 6131 | Air Sealing: 13 ACH50 to 9 ACH50 | MF | NLI | Retrofit | 4,920.0 | 20.2% | 995.0 | 0.019 | 0.65 | 15 | \$385.00 | Air sealing in poorly sealed homes with non-heat pump electric heating | 8.6% | 65.0% | 1.33 |
| 6132 | Air Sealing: 9 ACH50 to 7 ACH50 | MF | NLI | Retrofit | 3,925.0 | 12.2% | 478.0 | 0.011 | 0.65 | 15 | \$385.00 | Air sealing in adequately sealed homes with non-heat pump electric heating | 8.6% | 68.0% | 0.64 |
| 6133 | Duct Sealing: 38.5% to 25% (CFM @25Pa) | MF | NLI | Retrofit | 3,994.0 | 1.7% | 69.0 | 0.097 | 0.65 | 20 | \$744.00 | Duct sealing in homes with poorly sealed ducts and electric furnaces | 0.9% | 64.0% | 0.11 |
| 6134 | Duct Sealing: 25% to 16.25% (CFM @25Pa) | MF | NLI | Retrofit | 3,925.0 | 1.1% | 43.0 | 0.061 | 0.65 | 20 | \$744.00 | Duct sealing in homes with adequately sealed ducts and electric furnaces | 0.9% | 56.0% | 0.07 |
| 6135 | Duct Insulation (R-0 to R-8) | MF | NLI | Retrofit | 4,016.0 | 2.7% | 107.0 | 0.180 | 0.65 | 20 | \$453.60 | Installation of duct insulation in homes with poorly insulated ducts and electric furnaces | 0.9% | 42.0% | 0.30 |
| 6136 | Window Film (U=0.51, SHGC=0.24) | MF | NLI | Retrofit | 5,174.0 | 18.4% | 953.0 | 0.305 | 0.65 | 10 | \$1,128.00 | Installation of window film on single-pane windows in homes with non-heat pump electric heating | 8.6% | 83.0% | 0.39 |
| 6137 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | MF | NLI | Retrofit | 3,925.0 | 9.9% | 389.0 | 0.124 | 0.65 | 20 | \$2,139.97 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-heat pump electric heating | 8.6% | 83.0% | 0.12 |
| 6138 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | MF | ALL | ROB | 3,925.0 | 9.9% | 389.0 | 0.124 | 0.65 | 20 | \$86.59 | Installation of ENERGY STAR windows instead of double-pane windows in homes with non-heat pump electric heating | 8.6% | 43.0% | 2.93 |
| 6139 | Low Income Weatherization Package | MF | LI | Retrofit | 5,176.0 | 26.0% | 1,344.0 | 0.101 | 0.65 | 20 | \$1,828.02 | Installation of package of weatherization measures in homes with non-heat pump electric heating | 8.6% | 72.9% | 0.40 |
| 6140 | Window Film (U=0.51, SHGC=0.24) | MF | LI | Retrofit | 5,174.0 | 18.4% | 953.0 | 0.305 | 0.65 | 10 | \$1,128.00 | Installation of window film on single-pane windows in homes with non-heat pump electric heating | 8.6% | 83.0% | 0.39 |
| 6141 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | MF | LI | Retrofit | 3,925.0 | 9.9% | 389.0 | 0.124 | 0.65 | 20 | \$2,139.97 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-heat pump electric heating | 8.6% | 83.0% | 0.12 |
| 6142 | Exterior Wall Insulation: R-0 to R-13 | MF | NLI | Retrofit | 1,472.0 | 11.1% | 164.0 | 0.171 | 0.65 | 25 | \$1,509.60 | Addition of exterior wall insulation in poorly homes with non-electric heating | 90.7% | 79.0% | 0.11 |
| 6143 | Exterior Wall Insulation: R-0 to R-19 | MF | NLI | Retrofit | 1,472.0 | 12.4% | 182.0 | 0.201 | 0.65 | 25 | \$1,917.60 | Addition of exterior wall insulation in poorly homes with non-electric heating | 90.7% | 79.0% | 0.10 |
| 6144 | Air Sealing: 13 ACH50 to 9 ACH50 | MF | NLI | Retrofit | 1,341.0 | 2.2% | 30.0 | 0.021 | 0.65 | 15 | \$385.00 | Air sealing in poorly sealed homes with non-electric heating | 90.7% | 65.0% | 0.07 |
| 6145 | Air Sealing: 9 ACH50 to 7 ACH50 | MF | NLI | Retrofit | 1,311.0 | 1.0% | 13.0 | 0.011 | 0.65 | 15 | \$385.00 | Air sealing in adequately sealed homes with non-electric heating | 90.7% | 68.0% | 0.03 |
| 6146 | Duct Sealing: 38.5% to 25% (CFM @25Pa) | MF | NLI | Retrofit | 1,390.0 | 5.7% | 79.0 | 0.101 | 0.65 | 20 | \$744.00 | Duct sealing in homes with poorly sealed ducts and non-electric furnaces | 51.1% | 64.0% | 0.12 |
| 6147 | Duct Sealing: 25% to 16.25% (CFM @25Pa) | MF | NLI | Retrofit | 1,311.0 | 3.7% | 49.0 | 0.063 | 0.65 | 20 | \$744.00 | Duct sealing in homes with adequately sealed ducts and non-electric furnaces | 51.1% | 56.0% | 0.08 |
| 6148 | Duct Insulation (R-0 to R-8) | MF | NLI | Retrofit | 1,411.0 | 8.3% | 117.0 | 0.186 | 0.65 | 20 | \$453.60 | Installation of duct insulation in homes with poorly insulated ducts and non-electric furnaces | 51.1% | 42.0% | 0.33 |
| 6149 | Window Film (U=0.51, SHGC=0.24) | MF | NLI | Retrofit | 1,425.0 | 22.1% | 315.0 | 0.298 | 0.65 | 10 | \$1,128.00 | Installation of window film on single-pane windows in homes with non-electric heating | 90.7% | 83.0% | 0.20 |
| 6150 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | MF | NLI | Retrofit | 1,311.0 | 8.8% | 116.0 | 0.121 | 0.65 | 20 | \$2,139.97 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-electric heating | 90.7% | 83.0% | 0.06 |
| 6151 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | MF | ALL | ROB | 1,311.0 | 8.8% | 116.0 | 0.121 | 0.65 | 20 | \$86.59 | Installation of ENERGY STAR windows instead of double-pane windows in homes with non-electric heating | 90.7% | 43.0% | 1.39 |
| 6152 | Low Income Weatherization Package | MF | LI | Retrofit | 1,354.0 | 5.8% | 79.0 | 0.085 | 0.65 | 20 | \$1,417.36 | Installation of package of weatherization measures in homes with non-electric heating | 90.7% | 72.9% | 0.06 |

Measure Assumptions - Penelec

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|---|-----------------|---------------|-------------------|
| 6153 | Window Film (U=0.51, SHGC=0.24) | MF | LI | Retrofit | 1,425.0 | 22.1% | 315.0 | 0.298 | 0.65 | 10 | \$1,128.00 | Installation of window film on single-pane windows in homes with non-electric heating | 90.7% | 83.0% | 0.20 |
| 6154 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | MF | LI | Retrofit | 1,311.0 | 8.8% | 116.0 | 0.121 | 0.65 | 20 | \$2,139.97 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-electric heating | 90.7% | 83.0% | 0.06 |
| 6155 | Residential New Construction Tier 1 (15% more efficient) | MF | ALL | NC | 922.0 | 7.2% | 66.0 | 0.080 | 0.65 | 20 | \$2,561.00 | New home built 15% more efficient than code - in homes with non-electric heating | 90.7% | 0.0% | 0.03 |
| 6156 | Residential New Construction Tier 2 (30% more efficient) | MF | ALL | NC | 922.0 | 21.0% | 194.0 | 0.172 | 0.65 | 20 | \$4,302.19 | New home built 30% more efficient than code - in homes with non-electric heating | 90.7% | 0.0% | 0.04 |
| 7000 | Miscellaneous | | | | | | | | | | | | | | |
| 7001 | Indirect Feedback (Home Energy Reports) - homes with ASHP | SFD | All | Retrofit | 18,450.0 | 1.5% | 276.8 | 0.0316 | 0.65 | 1 | \$0.00 | Home energy reports in homes with heat pumps | 0.7% | 0.0% | 5.00 |
| 7002 | Direct (Real Time) Feedback - homes with ASHP | SFD | All | Retrofit | 18,450.0 | 9.2% | 1,697.4 | 0.1938 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with heat pumps | 0.7% | 5.0% | 2.18 |
| 7003 | Indirect Feedback (Home Energy Reports) - homes with non-ASHP electric heating | SFD | All | Retrofit | 28,145.0 | 1.5% | 422.2 | 0.0482 | 0.65 | 1 | \$0.00 | Home energy reports in homes with non-heat pump electric heating | 8.6% | 0.0% | 5.00 |
| 7004 | Direct (Real Time) Feedback - homes with non-ASHP electric heating | SFD | All | Retrofit | 28,145.0 | 9.2% | 2,589.3 | 0.2956 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with non-heat pump electric heating | 8.6% | 5.0% | 3.32 |
| 7005 | Indirect Feedback (Home Energy Reports) - homes with gas heating | SFD | All | Retrofit | 8,095.0 | 1.5% | 121.4 | 0.0139 | 0.65 | 1 | \$0.00 | Home energy reports in homes with non-electric heating | 90.7% | 0.0% | 5.00 |
| 7006 | Direct (Real Time) Feedback - homes with gas heating | SFD | All | Retrofit | 8,095.0 | 9.2% | 744.7 | 0.0850 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with non-electric heating | 90.7% | 5.0% | 1.04 |
| 7007 | Variable Speed Pool Pumps (with Load Shifting Option) | SFD | All | Retrofit | 706.6 | 84.0% | 593.5 | 0.3908 | 1.00 | 10 | \$750.00 | Installation of a variable speed pool pump to replace a constant speed pool pump | 7.0% | 25.0% | 0.57 |
| 7008 | Indirect Feedback (Home Energy Reports) - homes with ASHP | SFD | All | NC | 17,670.0 | 1.5% | 265.1 | 0.0303 | 0.65 | 1 | \$0.00 | Home energy reports in homes with heat pumps | 9.3% | 0.0% | 5.00 |
| 7009 | Direct (Real Time) Feedback - homes with ASHP | SFD | All | NC | 17,670.0 | 9.2% | 1,625.6 | 0.1856 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with heat pumps | 9.3% | 0.0% | 2.08 |
| 7010 | Indirect Feedback (Home Energy Reports) - homes with gas heating | SFD | All | NC | 8,227.0 | 1.5% | 123.4 | 0.0141 | 0.65 | 1 | \$0.00 | Home energy reports in homes with non-electric heating | 90.7% | 0.0% | 5.00 |
| 7011 | Direct (Real Time) Feedback - homes with gas heating | SFD | All | NC | 8,227.0 | 9.2% | 756.9 | 0.0864 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with non-electric heating | 90.7% | 0.0% | 1.06 |
| 7012 | Variable Speed Pool Pumps (with Load Shifting Option) | SFD | All | NC | 706.6 | 84.0% | 593.5 | 0.3908 | 1.00 | 10 | \$750.00 | Installation of a variable speed pool pump to replace a constant speed pool pump | 7.0% | 0.0% | 0.57 |
| 7013 | Indirect Feedback (Home Energy Reports) - homes with ASHP | SFA | All | Retrofit | 15,129.0 | 1.5% | 226.9 | 0.0259 | 0.65 | 1 | \$0.00 | Home energy reports in homes with heat pumps | 0.7% | 0.0% | 5.00 |
| 7014 | Direct (Real Time) Feedback - homes with ASHP | SFA | All | Retrofit | 15,129.0 | 9.2% | 1,391.9 | 0.1589 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with heat pumps | 0.7% | 5.0% | 1.78 |
| 7015 | Indirect Feedback (Home Energy Reports) - homes with non-ASHP electric heating | SFA | All | Retrofit | 21,899.0 | 1.5% | 328.5 | 0.0375 | 0.65 | 1 | \$0.00 | Home energy reports in homes with non-heat pump electric heating | 8.6% | 0.0% | 5.00 |
| 7016 | Direct (Real Time) Feedback - homes with non-ASHP electric heating | SFA | All | Retrofit | 21,899.0 | 9.2% | 2,014.7 | 0.2300 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with non-heat pump electric heating | 8.6% | 5.0% | 2.58 |
| 7017 | Indirect Feedback (Home Energy Reports) - homes with gas heating | SFA | All | Retrofit | 6,937.0 | 1.5% | 104.1 | 0.0119 | 0.65 | 1 | \$0.00 | Home energy reports in homes with non-electric heating | 90.7% | 0.0% | 5.00 |
| 7018 | Direct (Real Time) Feedback - homes with gas heating | SFA | All | Retrofit | 6,937.0 | 9.2% | 638.2 | 0.0729 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with non-electric heating | 90.7% | 5.0% | 0.89 |
| 7019 | Indirect Feedback (Home Energy Reports) - homes with ASHP | SFA | All | NC | 14,938.0 | 1.5% | 224.1 | 0.0256 | 0.65 | 1 | \$0.00 | Home energy reports in homes with heat pumps | 9.3% | 0.0% | 5.00 |
| 7020 | Direct (Real Time) Feedback - homes with ASHP | SFA | All | NC | 14,938.0 | 9.2% | 1,374.3 | 0.1569 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with heat pumps | 9.3% | 0.0% | 1.76 |
| 7021 | Indirect Feedback (Home Energy Reports) - homes with gas heating | SFA | All | NC | 7,025.0 | 1.5% | 105.4 | 0.0120 | 0.65 | 1 | \$0.00 | Home energy reports in homes with non-electric heating | 90.7% | 0.0% | 5.00 |
| 7022 | Direct (Real Time) Feedback - homes with gas heating | SFA | All | NC | 7,025.0 | 9.2% | 646.3 | 0.0738 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with non-electric heating | 90.7% | 0.0% | 0.90 |
| 7023 | Indirect Feedback (Home Energy Reports) - homes with ASHP | MF | All | Retrofit | 10,475.0 | 1.5% | 157.1 | 0.0179 | 0.65 | 1 | \$0.00 | Home energy reports in homes with heat pumps | 0.7% | 0.0% | 5.00 |
| 7024 | Direct (Real Time) Feedback - homes with ASHP | MF | All | Retrofit | 10,475.0 | 9.2% | 963.7 | 0.1100 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with heat pumps | 0.7% | 5.0% | 1.24 |
| 7025 | Indirect Feedback (Home Energy Reports) - homes with non-ASHP electric heating | MF | All | Retrofit | 11,964.0 | 1.5% | 179.5 | 0.0205 | 0.65 | 1 | \$0.00 | Home energy reports in homes with non-heat pump electric heating | 8.6% | 0.0% | 5.00 |
| 7026 | Direct (Real Time) Feedback - homes with non-ASHP electric heating | MF | All | Retrofit | 11,964.0 | 9.2% | 1,100.7 | 0.1256 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with non-heat pump electric heating | 8.6% | 5.0% | 1.41 |
| 7027 | Indirect Feedback (Home Energy Reports) - homes with gas heating | MF | All | Retrofit | 6,120.0 | 1.5% | 91.8 | 0.0105 | 0.65 | 1 | \$0.00 | Home energy reports in homes with non-electric heating | 90.7% | 0.0% | 5.00 |
| 7028 | Direct (Real Time) Feedback - homes with gas heating | MF | All | Retrofit | 6,120.0 | 9.2% | 563.0 | 0.0643 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with non-electric heating | 90.7% | 5.0% | 0.79 |
| 7029 | Indirect Feedback (Home Energy Reports) - homes with ASHP | MF | All | NC | 9,965.0 | 1.5% | 149.5 | 0.0171 | 0.65 | 1 | \$0.00 | Home energy reports in homes with heat pumps | 9.3% | 0.0% | 5.00 |
| 7030 | Direct (Real Time) Feedback - homes with ASHP | MF | All | NC | 9,965.0 | 9.2% | 916.8 | 0.1047 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with heat pumps | 9.3% | 0.0% | 1.18 |
| 7031 | Indirect Feedback (Home Energy Reports) - homes with gas heating | MF | All | NC | 5,935.0 | 1.5% | 89.0 | 0.0102 | 0.65 | 1 | \$0.00 | Home energy reports in homes with non-electric heating | 90.7% | 0.0% | 5.00 |
| 7032 | Direct (Real Time) Feedback - homes with gas heating | MF | All | NC | 5,935.0 | 9.2% | 546.0 | 0.0623 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with non-electric heating | 90.7% | 0.0% | 0.76 |

Measure Assumptions - Penn Power

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|---|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|---|-----------------|---------------|-------------------|
| 1000 | Lighting | | | | | | | | | | | | | | |
| 1001 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | NLI | ROB | 37.0 | 65.8% | 24.4 | 0.032 | 0.10 | 5 | \$0.61 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 2315.0% | 0.0% | 11.94 |
| 1002 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | NLI | ROB | 67.2 | 69.7% | 46.8 | 0.062 | 0.10 | 5 | \$1.64 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 440.9% | 0.0% | 7.54 |
| 1003 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | NLI | ROB | 37.0 | 78.5% | 29.0 | 0.038 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 2315.0% | 0.0% | 3.04 |
| 1004 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | NLI | ROB | 67.2 | 76.3% | 51.3 | 0.067 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 440.9% | 0.0% | 2.39 |
| 1005 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | NLI | ROB | 34.2 | 75.0% | 25.7 | 0.034 | 0.10 | 5 | \$2.71 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1436.0% | 0.0% | 2.79 |
| 1006 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | NLI | ROB | 64.2 | 68.3% | 43.9 | 0.058 | 0.10 | 5 | \$5.26 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 0.0% | 0.0% | 2.49 |
| 1007 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | NLI | ROB | 34.2 | 83.5% | 28.6 | 0.038 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1436.0% | 0.0% | 2.20 |
| 1008 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | NLI | ROB | 64.2 | 75.2% | 48.3 | 0.064 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 0.0% | 0.0% | 2.06 |
| 1009 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | SFD | NLI | ROB | 37.0 | 78.5% | 29.0 | 0.038 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | 1111.1% | 100.0% | 3.04 |
| 1010 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | SFD | NLI | ROB | 67.2 | 76.3% | 51.3 | 0.067 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | 211.6% | 100.0% | 2.39 |
| 1011 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | SFD | NLI | ROB | 34.2 | 83.5% | 28.6 | 0.038 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | 13.0% | 100.0% | 2.20 |
| 1012 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | SFD | NLI | ROB | 64.2 | 75.2% | 48.3 | 0.064 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | 0.0% | 100.0% | 2.06 |
| 1013 | CFL Reflector Replacing 65W/75W Reflector | SFD | NLI | ROB | 57.5 | 74.4% | 42.8 | 0.056 | 0.10 | 5 | \$2.15 | CFL Reflector Replacing 65W/75W Reflector | 693.3% | 0.0% | 7.04 |
| 1014 | LED Reflector Replacing 65W/75W Reflector | SFD | NLI | ROB | 57.5 | 83.8% | 48.2 | 0.063 | 0.10 | 15 | \$9.48 | LED Reflector Replacing 65W/75W Reflector | 693.3% | 0.0% | 4.26 |
| 1015 | LED Reflector Replacing CFL Reflector | SFD | NLI | ROB | 57.5 | 83.8% | 48.2 | 0.063 | 0.10 | 15 | \$9.48 | LED Reflector Replacing CFL Reflector | 56.7% | 100.0% | 4.26 |
| 1016 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | SFD | NLI | ROB | 48.2 | 69.6% | 33.5 | 0.037 | 0.10 | 5 | \$1.35 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | 555.1% | 0.0% | 7.89 |
| 1017 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | SFD | NLI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | 555.1% | 0.0% | 3.50 |
| 1018 | Exterior LED Bulb Replacing Exterior CFL Bulb | SFD | NLI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior CFL Bulb | 142.1% | 100.0% | 3.50 |
| 1019 | Residential Occupancy Sensors | SFD | ALL | Retrofit | 96.5 | 30.0% | 28.9 | 0.028 | 0.10 | 10 | \$63.50 | Residential Occupancy Sensors | 150.0% | 5.0% | 0.17 |
| 1020 | Electroluminescent Nightlight | SFD | NLI | ROB | 29.7 | 99.1% | 29.5 | 0.007 | 0.00 | 8 | \$1.92 | Replaces standard nightlighting with electroluminescent nightlight | 79.0% | 32.0% | 4.32 |
| 1021 | LED Nightlight | SFD | NLI | ROB | 29.7 | 85.7% | 25.5 | 0.006 | 0.00 | 8 | \$2.51 | Replaces standard nightlighting with LED nightlight | 79.0% | 32.0% | 2.86 |
| 1022 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | LI | ROB | 37.0 | 65.8% | 24.4 | 0.032 | 0.10 | 5 | \$0.61 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 2315.0% | 0.0% | 11.94 |
| 1023 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | LI | ROB | 67.2 | 69.7% | 46.8 | 0.062 | 0.10 | 5 | \$1.64 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 440.9% | 0.0% | 7.54 |
| 1024 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | LI | ROB | 37.0 | 78.5% | 29.0 | 0.038 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 2315.0% | 0.0% | 3.04 |
| 1025 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | LI | ROB | 67.2 | 76.3% | 51.3 | 0.067 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 440.9% | 0.0% | 2.39 |
| 1026 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | LI | ROB | 34.2 | 75.0% | 25.7 | 0.034 | 0.10 | 5 | \$2.71 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1436.0% | 0.0% | 2.79 |
| 1027 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | LI | ROB | 64.2 | 68.3% | 43.9 | 0.058 | 0.10 | 5 | \$5.26 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 0.0% | 0.0% | 2.49 |
| 1028 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | LI | ROB | 34.2 | 83.5% | 28.6 | 0.038 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1436.0% | 0.0% | 2.20 |
| 1029 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | LI | ROB | 64.2 | 75.2% | 48.3 | 0.064 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 0.0% | 0.0% | 2.06 |
| 1030 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | SFD | LI | ROB | 37.0 | 78.5% | 29.0 | 0.038 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | 1111.1% | 100.0% | 3.04 |
| 1031 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | SFD | LI | ROB | 67.2 | 76.3% | 51.3 | 0.067 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | 211.6% | 100.0% | 2.39 |
| 1032 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | SFD | LI | ROB | 34.2 | 83.5% | 28.6 | 0.038 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | 13.0% | 100.0% | 2.20 |
| 1033 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | SFD | LI | ROB | 64.2 | 75.2% | 48.3 | 0.064 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | 0.0% | 100.0% | 2.06 |
| 1034 | CFL Reflector Replacing 65W/75W Reflector | SFD | LI | ROB | 57.5 | 74.4% | 42.8 | 0.056 | 0.10 | 5 | \$2.15 | CFL Reflector Replacing 65W/75W Reflector | 693.3% | 0.0% | 7.04 |
| 1035 | LED Reflector Replacing 65W/75W Reflector | SFD | LI | ROB | 57.5 | 83.8% | 48.2 | 0.063 | 0.10 | 15 | \$9.48 | LED Reflector Replacing 65W/75W Reflector | 693.3% | 0.0% | 4.26 |
| 1036 | LED Reflector Replacing CFL Reflector | SFD | LI | ROB | 57.5 | 83.8% | 48.2 | 0.063 | 0.10 | 15 | \$9.48 | LED Reflector Replacing CFL Reflector | 56.7% | 100.0% | 4.26 |
| 1037 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | SFD | LI | ROB | 48.2 | 69.6% | 33.5 | 0.037 | 0.10 | 5 | \$1.35 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | 555.1% | 0.0% | 7.89 |
| 1038 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | SFD | LI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | 555.1% | 0.0% | 3.50 |
| 1039 | Exterior LED Bulb Replacing Exterior CFL Bulb | SFD | LI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior CFL Bulb | 142.1% | 100.0% | 3.50 |
| 1040 | LED Nightlight | SFD | LI | ROB | 29.7 | 85.7% | 25.5 | 0.006 | 0.00 | 8 | \$2.51 | Replaces standard nightlighting with LED nightlight | 79.0% | 32.0% | 2.86 |
| 1041 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | ALL | NC | 37.0 | 65.8% | 24.4 | 0.032 | 0.10 | 5 | \$0.61 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 3439.8% | 0.0% | 11.94 |

Measure Assumptions - Penn Power

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|---|--------------------------|---------------|-------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|---|-----------------|---------------|-------------------|
| 1042 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | ALL | NC | 67.2 | 69.7% | 46.8 | 0.062 | 0.10 | 5 | \$1.64 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 655.2% | 0.0% | 7.54 |
| 1043 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | ALL | NC | 37.0 | 78.5% | 29.0 | 0.038 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 3439.8% | 0.0% | 3.04 |
| 1044 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | ALL | NC | 67.2 | 76.3% | 51.3 | 0.067 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 655.2% | 0.0% | 2.39 |
| 1045 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | ALL | NC | 34.2 | 75.0% | 25.7 | 0.034 | 0.10 | 5 | \$2.71 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1449.0% | 0.0% | 2.79 |
| 1046 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | ALL | NC | 64.2 | 68.3% | 43.9 | 0.058 | 0.10 | 5 | \$5.26 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 0.0% | 0.0% | 2.49 |
| 1047 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | ALL | NC | 34.2 | 83.5% | 28.6 | 0.038 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1449.0% | 0.0% | 2.20 |
| 1048 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | ALL | NC | 64.2 | 75.2% | 48.3 | 0.064 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 0.0% | 0.0% | 2.06 |
| 1049 | CFL Reflector Replacing 65W/75W Reflector | SFD | ALL | NC | 57.5 | 74.4% | 42.8 | 0.056 | 0.10 | 5 | \$2.15 | CFL Reflector Replacing 65W/75W Reflector | 756.0% | 0.0% | 7.04 |
| 1050 | LED Reflector Replacing 65W/75W Reflector | SFD | ALL | NC | 57.5 | 83.8% | 48.2 | 0.063 | 0.10 | 15 | \$9.48 | LED Reflector Replacing 65W/75W Reflector | 756.0% | 0.0% | 4.26 |
| 1051 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | SFD | ALL | NC | 48.2 | 69.6% | 33.5 | 0.037 | 0.10 | 5 | \$1.35 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | 700.0% | 0.0% | 7.89 |
| 1052 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | SFD | ALL | NC | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | 700.0% | 0.0% | 3.50 |
| 1053 | Residential Occupancy Sensors | SFD | ALL | NC | 96.5 | 30.0% | 28.9 | 0.028 | 0.10 | 10 | \$63.50 | Residential Occupancy Sensors | 150.0% | 0.0% | 0.17 |
| 1054 | Electroluminescent Nightlight | SFD | ALL | NC | 29.7 | 99.1% | 29.5 | 0.007 | 0.00 | 8 | \$1.92 | Replaces standard nightlighting with electroluminescent nightlight | 79.0% | 0.0% | 4.32 |
| 1055 | LED Nightlight | SFD | ALL | NC | 29.7 | 85.7% | 25.5 | 0.006 | 0.00 | 8 | \$2.51 | Replaces standard nightlighting with LED nightlight | 79.0% | 0.0% | 2.86 |
| 1056 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | NLI | ROB | 37.0 | 65.8% | 24.4 | 0.032 | 0.10 | 5 | \$0.61 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1555.4% | 0.0% | 11.94 |
| 1057 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | NLI | ROB | 67.2 | 69.7% | 46.8 | 0.062 | 0.10 | 5 | \$1.64 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 232.4% | 0.0% | 7.54 |
| 1058 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | NLI | ROB | 37.0 | 78.5% | 29.0 | 0.038 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1555.4% | 0.0% | 3.04 |
| 1059 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | NLI | ROB | 67.2 | 76.3% | 51.3 | 0.067 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 232.4% | 0.0% | 2.39 |
| 1060 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | NLI | ROB | 34.2 | 75.0% | 25.7 | 0.034 | 0.10 | 5 | \$2.71 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 769.2% | 0.0% | 2.79 |
| 1061 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | NLI | ROB | 64.2 | 68.3% | 43.9 | 0.058 | 0.10 | 5 | \$5.26 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 32.0% | 0.0% | 2.49 |
| 1062 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | NLI | ROB | 34.2 | 83.5% | 28.6 | 0.038 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 769.2% | 0.0% | 2.20 |
| 1063 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | NLI | ROB | 64.2 | 75.2% | 48.3 | 0.064 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 32.0% | 0.0% | 2.06 |
| 1064 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | SFA | NLI | ROB | 37.0 | 78.5% | 29.0 | 0.038 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | 746.5% | 100.0% | 3.04 |
| 1065 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | SFA | NLI | ROB | 67.2 | 76.3% | 51.3 | 0.067 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | 111.5% | 100.0% | 2.39 |
| 1066 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | SFA | NLI | ROB | 34.2 | 83.5% | 28.6 | 0.038 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | 7.0% | 100.0% | 2.20 |
| 1067 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | SFA | NLI | ROB | 64.2 | 75.2% | 48.3 | 0.064 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | 0.3% | 100.0% | 2.06 |
| 1068 | CFL Reflector Replacing 65W/75W Reflector | SFA | NLI | ROB | 57.5 | 74.4% | 42.8 | 0.056 | 0.10 | 5 | \$2.15 | CFL Reflector Replacing 65W/75W Reflector | 353.0% | 0.0% | 7.04 |
| 1069 | LED Reflector Replacing 65W/75W Reflector | SFA | NLI | ROB | 57.5 | 83.8% | 48.2 | 0.063 | 0.10 | 15 | \$9.48 | LED Reflector Replacing 65W/75W Reflector | 353.0% | 0.0% | 4.26 |
| 1070 | LED Reflector Replacing CFL Reflector | SFA | NLI | ROB | 57.5 | 83.8% | 48.2 | 0.063 | 0.10 | 15 | \$9.48 | LED Reflector Replacing CFL Reflector | 28.9% | 100.0% | 4.26 |
| 1071 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | SFA | NLI | ROB | 48.2 | 69.6% | 33.5 | 0.037 | 0.10 | 5 | \$1.35 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | 158.6% | 0.0% | 7.89 |
| 1072 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | SFA | NLI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | 158.6% | 0.0% | 3.50 |
| 1073 | Exterior LED Bulb Replacing Exterior CFL Bulb | SFA | NLI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior CFL Bulb | 40.6% | 100.0% | 3.50 |
| 1074 | Residential Occupancy Sensors | SFA | ALL | Retrofit | 96.5 | 30.0% | 28.9 | 0.028 | 0.10 | 10 | \$63.50 | Residential Occupancy Sensors | 150.0% | 5.0% | 0.17 |
| 1075 | Electroluminescent Nightlight | SFA | NLI | ROB | 29.7 | 99.1% | 29.5 | 0.007 | 0.00 | 8 | \$1.92 | Replaces standard nightlighting with electroluminescent nightlight | 42.0% | 32.0% | 4.32 |
| 1076 | LED Nightlight | SFA | NLI | ROB | 29.7 | 85.7% | 25.5 | 0.006 | 0.00 | 8 | \$2.51 | Replaces standard nightlighting with LED nightlight | 42.0% | 32.0% | 2.86 |
| 1077 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | LI | ROB | 37.0 | 65.8% | 24.4 | 0.032 | 0.10 | 5 | \$0.61 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1555.4% | 0.0% | 11.94 |
| 1078 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | LI | ROB | 67.2 | 69.7% | 46.8 | 0.062 | 0.10 | 5 | \$1.64 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 232.4% | 0.0% | 7.54 |
| 1079 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | LI | ROB | 37.0 | 78.5% | 29.0 | 0.038 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1555.4% | 0.0% | 3.04 |
| 1080 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | LI | ROB | 67.2 | 76.3% | 51.3 | 0.067 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 232.4% | 0.0% | 2.39 |
| 1081 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | LI | ROB | 34.2 | 75.0% | 25.7 | 0.034 | 0.10 | 5 | \$2.71 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 769.2% | 0.0% | 2.79 |

Measure Assumptions - Penn Power

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|---|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|---|-----------------|---------------|-------------------|
| 1082 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | LI | ROB | 64.2 | 68.3% | 43.9 | 0.058 | 0.10 | 5 | \$5.26 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 32.0% | 0.0% | 2.49 |
| 1083 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | LI | ROB | 34.2 | 83.5% | 28.6 | 0.038 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 769.2% | 0.0% | 2.20 |
| 1084 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | LI | ROB | 64.2 | 75.2% | 48.3 | 0.064 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 32.0% | 0.0% | 2.06 |
| 1085 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | SFA | LI | ROB | 37.0 | 78.5% | 29.0 | 0.038 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | 746.5% | 100.0% | 3.04 |
| 1086 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | SFA | LI | ROB | 67.2 | 76.3% | 51.3 | 0.067 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | 111.5% | 100.0% | 2.39 |
| 1087 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | SFA | LI | ROB | 34.2 | 83.5% | 28.6 | 0.038 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | 7.0% | 100.0% | 2.20 |
| 1088 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | SFA | LI | ROB | 64.2 | 75.2% | 48.3 | 0.064 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | 0.3% | 100.0% | 2.06 |
| 1089 | CFL Reflector Replacing 65W/75W Reflector | SFA | LI | ROB | 57.5 | 74.4% | 42.8 | 0.056 | 0.10 | 5 | \$2.15 | CFL Reflector Replacing 65W/75W Reflector | 353.0% | 0.0% | 7.04 |
| 1090 | LED Reflector Replacing 65W/75W Reflector | SFA | LI | ROB | 57.5 | 83.8% | 48.2 | 0.063 | 0.10 | 15 | \$9.48 | LED Reflector Replacing 65W/75W Reflector | 353.0% | 0.0% | 4.26 |
| 1091 | LED Reflector Replacing CFL Reflector | SFA | LI | ROB | 57.5 | 83.8% | 48.2 | 0.063 | 0.10 | 15 | \$9.48 | LED Reflector Replacing CFL Reflector | 28.9% | 100.0% | 4.26 |
| 1092 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | SFA | LI | ROB | 48.2 | 69.6% | 33.5 | 0.037 | 0.10 | 5 | \$1.35 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | 158.6% | 0.0% | 7.89 |
| 1093 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | SFA | LI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | 158.6% | 0.0% | 3.50 |
| 1094 | Exterior LED Bulb Replacing Exterior CFL Bulb | SFA | LI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior CFL Bulb | 40.6% | 100.0% | 3.50 |
| 1095 | LED Nightlight | SFA | LI | ROB | 29.7 | 85.7% | 25.5 | 0.006 | 0.00 | 8 | \$2.51 | Replaces standard nightlighting with LED nightlight | 42.0% | 32.0% | 2.86 |
| 1096 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | ALL | NC | 37.0 | 65.8% | 24.4 | 0.032 | 0.10 | 5 | \$0.61 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 2311.2% | 0.0% | 11.94 |
| 1097 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | ALL | NC | 67.2 | 69.7% | 46.8 | 0.062 | 0.10 | 5 | \$1.64 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 345.3% | 0.0% | 7.54 |
| 1098 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | ALL | NC | 37.0 | 78.5% | 29.0 | 0.038 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 2311.2% | 0.0% | 3.04 |
| 1099 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | ALL | NC | 67.2 | 76.3% | 51.3 | 0.067 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 345.3% | 0.0% | 2.39 |
| 1100 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | ALL | NC | 34.2 | 75.0% | 25.7 | 0.034 | 0.10 | 5 | \$2.71 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 776.2% | 0.0% | 2.79 |
| 1101 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | ALL | NC | 64.2 | 68.3% | 43.9 | 0.058 | 0.10 | 5 | \$5.26 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 32.3% | 0.0% | 2.49 |
| 1102 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | ALL | NC | 34.2 | 83.5% | 28.6 | 0.038 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 776.2% | 0.0% | 2.20 |
| 1103 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | ALL | NC | 64.2 | 75.2% | 48.3 | 0.064 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 32.3% | 0.0% | 2.06 |
| 1104 | CFL Reflector Replacing 65W/75W Reflector | SFA | ALL | NC | 57.5 | 74.4% | 42.8 | 0.056 | 0.10 | 5 | \$2.15 | CFL Reflector Replacing 65W/75W Reflector | 385.0% | 0.0% | 7.04 |
| 1105 | LED Reflector Replacing 65W/75W Reflector | SFA | ALL | NC | 57.5 | 83.8% | 48.2 | 0.063 | 0.10 | 15 | \$9.48 | LED Reflector Replacing 65W/75W Reflector | 385.0% | 0.0% | 4.26 |
| 1106 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | SFA | ALL | NC | 48.2 | 69.6% | 33.5 | 0.037 | 0.10 | 5 | \$1.35 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | 200.0% | 0.0% | 7.89 |
| 1107 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | SFA | ALL | NC | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | 158.6% | 0.0% | 3.50 |
| 1108 | Residential Occupancy Sensors | SFA | ALL | NC | 96.5 | 30.0% | 28.9 | 0.028 | 0.10 | 10 | \$63.50 | Residential Occupancy Sensors | 150.0% | 0.0% | 0.17 |
| 1109 | Electroluminescent Nightlight | SFA | ALL | NC | 29.7 | 99.1% | 29.5 | 0.007 | 0.00 | 8 | \$1.92 | Replaces standard nightlighting with electroluminescent nightlight | 42.0% | 0.0% | 4.32 |
| 1110 | LED Nightlight | SFA | ALL | NC | 29.7 | 85.7% | 25.5 | 0.006 | 0.00 | 8 | \$2.51 | Replaces standard nightlighting with LED nightlight | 42.0% | 0.0% | 2.86 |
| 1111 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | NLI | ROB | 37.0 | 65.8% | 24.4 | 0.032 | 0.10 | 5 | \$0.61 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 972.4% | 0.0% | 11.94 |
| 1112 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | NLI | ROB | 67.2 | 69.7% | 46.8 | 0.062 | 0.10 | 5 | \$1.64 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 158.3% | 0.0% | 7.54 |
| 1113 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | NLI | ROB | 37.0 | 78.5% | 29.0 | 0.038 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 972.4% | 0.0% | 3.04 |
| 1114 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | NLI | ROB | 67.2 | 76.3% | 51.3 | 0.067 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 158.3% | 0.0% | 2.39 |
| 1115 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | NLI | ROB | 34.2 | 75.0% | 25.7 | 0.034 | 0.10 | 5 | \$2.71 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 329.6% | 0.0% | 2.79 |
| 1116 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | NLI | ROB | 64.2 | 68.3% | 43.9 | 0.058 | 0.10 | 5 | \$5.26 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 3.3% | 0.0% | 2.49 |
| 1117 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | NLI | ROB | 34.2 | 83.5% | 28.6 | 0.038 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 329.6% | 0.0% | 2.20 |
| 1118 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | NLI | ROB | 64.2 | 75.2% | 48.3 | 0.064 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 3.3% | 0.0% | 2.06 |
| 1119 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | MF | NLI | ROB | 37.0 | 78.5% | 29.0 | 0.038 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | 466.7% | 100.0% | 3.04 |
| 1120 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | MF | NLI | ROB | 67.2 | 76.3% | 51.3 | 0.067 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | 76.0% | 100.0% | 2.39 |
| 1121 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | MF | NLI | ROB | 34.2 | 83.5% | 28.6 | 0.038 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | 3.0% | 100.0% | 2.20 |

Measure Assumptions - Penn Power

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|---|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|---|-----------------|---------------|-------------------|
| 1122 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | MF | NLI | ROB | 64.2 | 75.2% | 48.3 | 0.064 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | 0.0% | 100.0% | 2.06 |
| 1123 | CFL Reflector Replacing 65W/75W Reflector | MF | NLI | ROB | 57.5 | 74.4% | 42.8 | 0.056 | 0.10 | 5 | \$2.15 | CFL Reflector Replacing 65W/75W Reflector | 77.0% | 0.0% | 7.04 |
| 1124 | LED Reflector Replacing 65W/75W Reflector | MF | NLI | ROB | 57.5 | 83.8% | 48.2 | 0.063 | 0.10 | 15 | \$9.48 | LED Reflector Replacing 65W/75W Reflector | 77.0% | 0.0% | 4.26 |
| 1125 | LED Reflector Replacing CFL Reflector | MF | NLI | ROB | 57.5 | 83.8% | 48.2 | 0.063 | 0.10 | 15 | \$9.48 | LED Reflector Replacing CFL Reflector | 6.3% | 100.0% | 4.26 |
| 1126 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | MF | NLI | ROB | 48.2 | 69.6% | 33.5 | 0.037 | 0.10 | 5 | \$1.35 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | 79.3% | 0.0% | 7.89 |
| 1127 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | MF | NLI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | 79.3% | 0.0% | 3.50 |
| 1128 | Exterior LED Bulb Replacing Exterior CFL Bulb | MF | NLI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior CFL Bulb | 20.3% | 100.0% | 3.50 |
| 1129 | Residential Occupancy Sensors | MF | ALL | Retrofit | 96.5 | 30.0% | 28.9 | 0.028 | 0.10 | 10 | \$63.50 | Residential Occupancy Sensors | 100.0% | 5.0% | 0.17 |
| 1130 | Electroluminescent Nightlight | MF | NLI | ROB | 29.7 | 99.1% | 29.5 | 0.007 | 0.00 | 8 | \$1.92 | Replaces standard nightlighting with electroluminescent nightlight | 18.0% | 32.0% | 4.32 |
| 1131 | LED Nightlight | MF | NLI | ROB | 29.7 | 85.7% | 25.5 | 0.006 | 0.00 | 8 | \$2.51 | Replaces standard nightlighting with LED nightlight | 18.0% | 32.0% | 2.86 |
| 1132 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | LI | ROB | 37.0 | 65.8% | 24.4 | 0.032 | 0.10 | 5 | \$0.61 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 972.4% | 0.0% | 11.94 |
| 1133 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | LI | ROB | 67.2 | 69.7% | 46.8 | 0.062 | 0.10 | 5 | \$1.64 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 158.3% | 0.0% | 7.54 |
| 1134 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | LI | ROB | 37.0 | 78.5% | 29.0 | 0.038 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 972.4% | 0.0% | 3.04 |
| 1135 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | LI | ROB | 67.2 | 76.3% | 51.3 | 0.067 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 158.3% | 0.0% | 2.39 |
| 1136 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | LI | ROB | 34.2 | 75.0% | 25.7 | 0.034 | 0.10 | 5 | \$2.71 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 329.6% | 0.0% | 2.79 |
| 1137 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | LI | ROB | 64.2 | 68.3% | 43.9 | 0.058 | 0.10 | 5 | \$5.26 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 3.3% | 0.0% | 2.49 |
| 1138 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | LI | ROB | 34.2 | 83.5% | 28.6 | 0.038 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 329.6% | 0.0% | 2.20 |
| 1139 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | LI | ROB | 64.2 | 75.2% | 48.3 | 0.064 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 3.3% | 0.0% | 2.06 |
| 1140 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | MF | LI | ROB | 37.0 | 78.5% | 29.0 | 0.038 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | 466.7% | 100.0% | 3.04 |
| 1141 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | MF | LI | ROB | 67.2 | 76.3% | 51.3 | 0.067 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | 76.0% | 100.0% | 2.39 |
| 1142 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | MF | LI | ROB | 34.2 | 83.5% | 28.6 | 0.038 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | 3.0% | 100.0% | 2.20 |
| 1143 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | MF | LI | ROB | 64.2 | 75.2% | 48.3 | 0.064 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | 0.0% | 100.0% | 2.06 |
| 1144 | CFL Reflector Replacing 65W/75W Reflector | MF | LI | ROB | 57.5 | 74.4% | 42.8 | 0.056 | 0.10 | 5 | \$2.15 | CFL Reflector Replacing 65W/75W Reflector | 77.0% | 0.0% | 7.04 |
| 1145 | LED Reflector Replacing 65W/75W Reflector | MF | LI | ROB | 57.5 | 83.8% | 48.2 | 0.063 | 0.10 | 15 | \$9.48 | LED Reflector Replacing 65W/75W Reflector | 77.0% | 0.0% | 4.26 |
| 1146 | LED Reflector Replacing CFL Reflector | MF | LI | ROB | 57.5 | 83.8% | 48.2 | 0.063 | 0.10 | 15 | \$9.48 | LED Reflector Replacing CFL Reflector | 6.3% | 100.0% | 4.26 |
| 1147 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | MF | LI | ROB | 48.2 | 69.6% | 33.5 | 0.037 | 0.10 | 5 | \$1.35 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | 79.3% | 0.0% | 7.89 |
| 1148 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | MF | LI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | 79.3% | 0.0% | 3.50 |
| 1149 | Exterior LED Bulb Replacing Exterior CFL Bulb | MF | LI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior CFL Bulb | 20.3% | 100.0% | 3.50 |
| 1150 | LED Nightlight | MF | LI | ROB | 29.7 | 85.7% | 25.5 | 0.006 | 0.00 | 8 | \$2.51 | Replaces standard nightlighting with LED nightlight | 18.0% | 32.0% | 2.86 |
| 1151 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | ALL | NC | 37.0 | 65.8% | 24.4 | 0.032 | 0.10 | 5 | \$0.61 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1444.8% | 0.0% | 11.94 |
| 1152 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | ALL | NC | 67.2 | 69.7% | 46.8 | 0.062 | 0.10 | 5 | \$1.64 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 235.2% | 0.0% | 7.54 |
| 1153 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | ALL | NC | 37.0 | 78.5% | 29.0 | 0.038 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1444.8% | 0.0% | 3.04 |
| 1154 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | ALL | NC | 67.2 | 76.3% | 51.3 | 0.067 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 235.2% | 0.0% | 2.39 |
| 1155 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | ALL | NC | 34.2 | 75.0% | 25.7 | 0.034 | 0.10 | 5 | \$2.71 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 332.6% | 0.0% | 2.79 |
| 1156 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | ALL | NC | 64.2 | 68.3% | 43.9 | 0.058 | 0.10 | 5 | \$5.26 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 3.4% | 0.0% | 2.49 |
| 1157 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | ALL | NC | 34.2 | 83.5% | 28.6 | 0.038 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 332.6% | 0.0% | 2.20 |
| 1158 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | ALL | NC | 64.2 | 75.2% | 48.3 | 0.064 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 3.4% | 0.0% | 2.06 |
| 1159 | CFL Reflector Replacing 65W/75W Reflector | MF | ALL | NC | 57.5 | 74.4% | 42.8 | 0.056 | 0.10 | 5 | \$2.15 | CFL Reflector Replacing 65W/75W Reflector | 84.0% | 0.0% | 7.04 |
| 1160 | LED Reflector Replacing 65W/75W Reflector | MF | ALL | NC | 57.5 | 83.8% | 48.2 | 0.063 | 0.10 | 15 | \$9.48 | LED Reflector Replacing 65W/75W Reflector | 84.0% | 0.0% | 4.26 |
| 1161 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | MF | ALL | NC | 48.2 | 69.6% | 33.5 | 0.037 | 0.10 | 5 | \$1.35 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | 100.0% | 0.0% | 7.89 |
| 1162 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | MF | ALL | NC | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | 100.0% | 0.0% | 3.50 |
| 1163 | Residential Occupancy Sensors | MF | ALL | NC | 96.5 | 30.0% | 28.9 | 0.028 | 0.10 | 10 | \$63.50 | Residential Occupancy Sensors | 150.0% | 0.0% | 0.17 |

Measure Assumptions - Penn Power

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|---|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|--|-----------------|---------------|-------------------|
| 1164 | Electroluminescent Nightlight | MF | ALL | NC | 29.7 | 99.1% | 29.5 | 0.007 | 0.00 | 8 | \$1.92 | Replaces standard nightlighting with electroluminescent nightlight | 18.0% | 0.0% | 4.32 |
| 1165 | LED Nightlight | MF | ALL | NC | 29.7 | 85.7% | 25.5 | 0.006 | 0.00 | 8 | \$2.51 | Replaces standard nightlighting with LED nightlight | 18.0% | 0.0% | 2.86 |
| 2000 | HVAC Equipment | | | | | | | | | | | | | | |
| 2001 | Central AC Maintenance (10.4 SEER to 11 SEER) | SFD | NLI | Retrofit | 1,876.0 | 1.4% | 27.0 | 0.124 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of central AC units in homes with central air conditioning | 55.6% | 71.0% | 0.38 |
| 2002 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) | SFD | NLI | ROB | 1,539.0 | 8.8% | 135.0 | 0.214 | 0.65 | 14 | \$1,407.82 | Installation of 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 55.6% | 14.0% | 0.10 |
| 2003 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) | SFD | NLI | ROB | 1,539.0 | 12.5% | 193.0 | 0.301 | 0.65 | 14 | \$2,588.05 | Installation of 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 55.6% | 14.0% | 0.08 |
| 2004 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) - with proper sizing | SFD | NLI | ROB | 1,539.0 | 10.3% | 159.0 | 0.260 | 0.65 | 14 | \$1,319.00 | Installation of properly sized 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 55.6% | 14.0% | 0.13 |
| 2005 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) - with proper sizing | SFD | NLI | ROB | 1,539.0 | 13.9% | 214.0 | 0.348 | 0.65 | 14 | \$2,499.23 | Installation of properly sized 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 55.6% | 14.0% | 0.09 |
| 2006 | Air Source Heat Pump Maintenance (12.3 SEER to 13 SEER / 7.3 hspf to 7.7 hspf) | SFD | NLI | Retrofit | 7,749.0 | 5.9% | 454.0 | 0.145 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of air-source heat pump in homes with air-source heat pumps | 6.5% | 67.0% | 1.46 |
| 2007 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 15 SEER / 8.5 hspf) | SFD | NLI | ROB | 6,782.0 | 3.4% | 229.0 | 0.054 | 0.65 | 12 | \$1,116.43 | Installation of 15 SEER / 8.5 hspf instead of standard air-source heat pump in homes with heat pumps | 6.5% | 14.0% | 0.09 |
| 2008 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 16 SEER / 9.0 hspf) | SFD | NLI | ROB | 6,782.0 | 8.9% | 605.0 | 0.087 | 0.65 | 12 | \$1,381.27 | Installation of 16 SEER / 9.0 hspf instead of standard air-source heat pump in homes with heat pumps | 6.5% | 14.0% | 0.18 |
| 2009 | ENERGY STAR Ground Source Heat Pump (14 SEER / 8.0 hspf to 17.1 EER / 3.6 COP) | SFD | NLI | ROB | 6,782.0 | 18.3% | 1,240.0 | 0.390 | 0.65 | 30 | \$12,709.14 | Installation of 17.1 EER / 3.6 COP ground source heat pump instead of standard air-source heat pump in homes with heat pumps | 6.5% | 14.0% | 0.05 |
| 2010 | ENERGY STAR Ground Source Heat Pump (14 SEER / 8.0 hspf to 17.1 EER / 3.6 COP) - with desuperheater | SFD | NLI | ROB | 6,782.0 | 26.6% | 1,807.0 | 0.390 | 0.65 | 30 | \$12,071.37 | Installation of 17.1 EER / 3.6 COP ground source heat pump (with a desuperheater) instead of standard air-source heat pump in homes with heat pumps | 6.5% | 14.0% | 0.08 |
| 2011 | ENERGY STAR Air Source Heat Pump (Elec Furnace / CAC to 16 SEER / 9.0 hspf) | SFD | NLI | ROB | 15,657.0 | 60.5% | 9,480.0 | 0.216 | 0.65 | 12 | \$3,158.48 | Installation of 16 SEER / 9.0 hspf instead of electric furnace in homes with electric furnaces | 4.2% | 0.0% | 1.08 |
| 2012 | ENERGY STAR Ground Source Heat Pump (Electric Furnace / CAC to 17.1 EER / 3.6 COP) - with desuperheater | SFD | NLI | ROB | 15,657.0 | 60.5% | 9,480.0 | 0.216 | 0.65 | 30 | \$17,454.97 | Installation of 17.1 EER / 3.6 COP ground source heat pump (with a desuperheater) instead of electric furnace in homes with electric furnaces | 4.2% | 0.0% | 0.23 |
| 2013 | High Efficiency Furnace Fan (on existing furnace) - electric heating and central AC | SFD | ALL | Retrofit | 15,657.0 | 2.8% | 446.0 | 0.176 | 0.65 | 18 | \$360.00 | Installation of high efficiency furnace fan on existing furnace in homes with electric furnaces | 19.0% | 34.0% | 0.71 |
| 2014 | High Efficiency Furnace Fan (on existing furnace) - non-electric heating and central AC | SFD | ALL | Retrofit | 1,849.0 | 24.1% | 446.0 | 0.176 | 0.65 | 18 | \$360.00 | Installation of high efficiency furnace fan on existing furnace in homes with non-electric furnaces | 49.0% | 34.0% | 0.71 |
| 2015 | Furnace Whistle - electric heating and central AC | SFD | NLI | Retrofit | 10,692.0 | 0.5% | 58.3 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on electric furnaces in homes with electric forced air heating | 19.0% | 10.0% | 44.03 |
| 2016 | Furnace Whistle - non-electric heating and central AC | SFD | NLI | Retrofit | 1,849.0 | 0.8% | 15.4 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on non-electric furnaces in homes with non-electric forced air heating | 49.0% | 10.0% | 27.65 |
| 2017 | Ductless Mini-Split Heat Pump (16 SEER / 9.0 hspf) - replacing baseboard/room AC | SFD | ALL | ROB | 15,035.0 | 61.5% | 9,249.0 | 1.436 | 0.30 | 15 | \$3,570.80 | Installation of a 16 SEER / 9.0 hspf ductless minisplit heat pump to replace baseboard heating in homes with baseboard heating and room air conditioning | 18.9% | 0.0% | 1.16 |
| 2018 | Ductless Mini-Split Air Conditioner (16 SEER) replacing room AC | SFD | ALL | ROB | 1,732.0 | 30.7% | 531.0 | 1.396 | 0.30 | 15 | \$3,570.80 | Installation of a 16 SEER / 9.0 hspf ductless minisplit air conditioner instead of standard room air conditioner in homes with room air conditioning and any form of electric heating other than baseboard heating | 18.9% | 22.0% | 0.14 |
| 2019 | High Efficiency Room Air Conditioner (11 CEER to 12 CEER) | SFD | NLI | ROB | 1,732.0 | 0.5% | 8.1 | 0.061 | 0.30 | 9 | \$40.00 | Installation of a high efficiency room air conditioner instead of standard room air conditioner in homes with room air conditioning and any form of electric heating other than baseboard heating | 45.7% | 22.0% | 0.27 |
| 2020 | Room AC Retirement | SFD | ALL | Retrofit | 1,756.8 | 8.4% | 148.0 | 0.640 | 0.30 | 4 | \$60.00 | Retirement of supplemental room air conditioners (not primary or secondary) in homes with room air conditioners | 14.0% | 0.0% | 1.21 |
| 2021 | Programmable Thermostat (electric heating and air conditioning) | SFD | NLI | Retrofit | 12,233.8 | 3.4% | 412.8 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with electric heating and air conditioning | 14.3% | 60.0% | 2.14 |
| 2022 | Smart Thermostat (electric heating and air conditioning) | SFD | NLI | Retrofit | 12,233.8 | 10.5% | 1,285.7 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with electric heating and air conditioning | 14.3% | 60.0% | 1.71 |
| 2023 | Programmable Thermostat (non-electric heating and air conditioning) | SFD | NLI | Retrofit | 1,849.0 | 2.0% | 37.0 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with non-electric heating and air conditioning | 71.7% | 60.0% | 0.21 |
| 2024 | Smart Thermostat (non-electric heating and air conditioning) | SFD | NLI | Retrofit | 1,849.0 | 13.5% | 250.1 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with non-electric heating and air conditioning | 71.7% | 60.0% | 0.37 |
| 2025 | Residential Whole House Fan | SFD | ALL | Retrofit | 1,849.0 | 10.8% | 199.0 | 0.000 | 0.65 | 15 | \$533.86 | Installation of residential whole house fan in homes with air conditioning | 86.0% | 9.1% | 0.17 |
| 2026 | Central AC Maintenance (10.4 SEER to 11 SEER) | SFD | LI | Retrofit | 1,876.0 | 1.4% | 27.0 | 0.124 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of central AC units in homes with central air conditioning | 55.6% | 71.0% | 0.38 |

Measure Assumptions - Penn Power

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|---|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|---|-----------------|---------------|-------------------|
| 2027 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) | SFD | LI | ROB | 1,539.0 | 8.8% | 135.0 | 0.214 | 0.65 | 14 | \$1,407.82 | Installation of 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 55.6% | 14.0% | 0.10 |
| 2028 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) | SFD | LI | ROB | 1,539.0 | 12.5% | 193.0 | 0.301 | 0.65 | 14 | \$2,588.05 | Installation of 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 55.6% | 14.0% | 0.08 |
| 2029 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) - with proper sizing | SFD | LI | ROB | 1,539.0 | 10.3% | 159.0 | 0.260 | 0.65 | 14 | \$1,319.00 | Installation of properly sized 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 55.6% | 14.0% | 0.13 |
| 2030 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) - with proper sizing | SFD | LI | ROB | 1,539.0 | 13.9% | 214.0 | 0.348 | 0.65 | 14 | \$2,499.23 | Installation of properly sized 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 55.6% | 14.0% | 0.09 |
| 2031 | Air Source Heat Pump Maintenance (12.3 SEER to 13 SEER / 7.3 hspf to 7.7 hspf) | SFD | LI | Retrofit | 7,749.0 | 5.9% | 454.0 | 0.145 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of air-source heat pump in homes with air-source heat pumps | 6.5% | 67.0% | 1.46 |
| 2032 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 15 SEER / 8.5 hspf) | SFD | LI | ROB | 6,782.0 | 3.4% | 229.0 | 0.054 | 0.65 | 12 | \$1,116.43 | Installation of 15 SEER / 8.5 hspf instead of standard air-source heat pump in homes with heat pumps | 6.5% | 14.0% | 0.09 |
| 2033 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 16 SEER / 9.0 hspf) | SFD | LI | ROB | 6,782.0 | 8.9% | 605.0 | 0.087 | 0.65 | 12 | \$1,381.27 | Installation of 16 SEER / 9.0 hspf instead of standard air-source heat pump in homes with heat pumps | 6.5% | 14.0% | 0.18 |
| 2034 | ENERGY STAR Air Source Heat Pump (Elec Furnace / CAC to 16 SEER / 9.0 hspf) | SFD | LI | ROB | 15,657.0 | 60.5% | 9,480.0 | 0.216 | 0.65 | 12 | \$3,158.48 | Installation of 16 SEER / 9.0 hspf instead of electric furnace in homes with electric furnaces | 4.2% | 0.0% | 1.08 |
| 2035 | Furnace Whistle - electric heating and central AC | SFD | LI | Retrofit | 10,692.0 | 0.5% | 58.3 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on electric furnaces in homes with electric forced air heating | 19.0% | 10.0% | 43.46 |
| 2036 | Furnace Whistle - non-electric heating and central AC | SFD | LI | Retrofit | 1,849.0 | 0.8% | 15.4 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on non-electric furnaces in homes with non-electric forced air heating | 49.0% | 10.0% | 26.78 |
| 2037 | High Efficiency Room Air Conditioner (11 CEER to 12 CEER) | SFD | LI | ROB | 1,732.0 | 0.5% | 8.1 | 0.061 | 0.30 | 9 | \$40.00 | Installation of a high efficiency room air conditioner instead of standard room air conditioner in homes with room air conditioning and any form of electric heating other than baseboard heating | 45.7% | 22.0% | 0.27 |
| 2038 | Programmable Thermostat (electric heating and air conditioning) | SFD | LI | Retrofit | 12,233.8 | 3.4% | 412.8 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with electric heating and air conditioning | 14.3% | 60.0% | 2.14 |
| 2039 | Smart Thermostat (electric heating and air conditioning) | SFD | LI | Retrofit | 12,233.8 | 10.5% | 1,285.7 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with electric heating and air conditioning | 14.3% | 60.0% | 1.71 |
| 2040 | Programmable Thermostat (non-electric heating and air conditioning) | SFD | LI | Retrofit | 1,849.0 | 2.0% | 37.0 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with non-electric heating and air conditioning | 71.7% | 60.0% | 0.21 |
| 2041 | Smart Thermostat (non-electric heating and air conditioning) | SFD | LI | Retrofit | 1,849.0 | 13.5% | 250.1 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with non-electric heating and air conditioning | 71.7% | 60.0% | 0.37 |
| 2042 | Central AC Maintenance (10.4 SEER to 11 SEER) | SFA | NLI | Retrofit | 1,741.0 | 1.7% | 29.0 | 0.108 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of central AC units in homes with central air conditioning | 55.6% | 71.0% | 0.34 |
| 2043 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) | SFA | NLI | ROB | 1,404.0 | 9.4% | 132.0 | 0.179 | 0.65 | 14 | \$1,319.00 | Installation of 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 55.6% | 14.0% | 0.10 |
| 2044 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) | SFA | NLI | ROB | 1,404.0 | 13.4% | 188.0 | 0.250 | 0.65 | 14 | \$2,499.23 | Installation of 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 55.6% | 14.0% | 0.07 |
| 2045 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) - with proper sizing | SFA | NLI | ROB | 1,404.0 | 11.0% | 155.0 | 0.214 | 0.65 | 14 | \$1,230.23 | Installation of properly sized 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 55.6% | 14.0% | 0.12 |
| 2046 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) - with proper sizing | SFA | NLI | ROB | 1,404.0 | 15.0% | 211.0 | 0.288 | 0.65 | 14 | \$2,410.41 | Installation of properly sized 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 55.6% | 14.0% | 0.08 |
| 2047 | Air Source Heat Pump Maintenance (12.3 SEER to 13 SEER / 7.3 hspf to 7.7 hspf) | SFA | NLI | Retrofit | 6,099.0 | 6.7% | 407.0 | 0.147 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of air-source heat pump in homes with air-source heat pumps | 6.5% | 67.0% | 1.35 |
| 2048 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 15 SEER / 8.5 hspf) | SFA | NLI | ROB | 5,275.0 | 3.5% | 187.0 | 0.043 | 0.65 | 12 | \$1,004.75 | Installation of 15 SEER / 8.5 hspf instead of standard air-source heat pump in homes with heat pumps | 6.5% | 14.0% | 0.08 |
| 2049 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 16 SEER / 9.0 hspf) | SFA | NLI | ROB | 5,275.0 | 9.3% | 489.0 | 0.079 | 0.65 | 12 | \$1,269.59 | Installation of 16 SEER / 9.0 hspf instead of standard air-source heat pump in homes with heat pumps | 6.5% | 14.0% | 0.16 |
| 2050 | ENERGY STAR Air Source Heat Pump (Elec Furnace / CAC to 16 SEER / 9.0 hspf) | SFA | NLI | ROB | 11,870.0 | 59.7% | 7,084.0 | 0.177 | 0.65 | 12 | \$2,829.74 | Installation of 16 SEER / 9.0 hspf instead of electric furnace in homes with electric furnaces | 4.2% | 0.0% | 0.90 |
| 2051 | High Efficiency Furnace Fan (on existing furnace) - electric heating and central AC | SFA | ALL | Retrofit | 11,870.0 | 3.8% | 446.0 | 0.176 | 0.65 | 18 | \$360.00 | Installation of high efficiency furnace fan on existing furnace in homes with electric furnaces | 19.0% | 34.0% | 0.71 |
| 2052 | High Efficiency Furnace Fan (on existing furnace) - non-electric heating and central AC | SFA | ALL | Retrofit | 1,712.0 | 26.1% | 446.0 | 0.176 | 0.65 | 18 | \$360.00 | Installation of high efficiency furnace fan on existing furnace in homes with non-electric furnaces | 49.0% | 34.0% | 0.71 |
| 2053 | Furnace Whistle - electric heating and central AC | SFA | NLI | Retrofit | 8,233.4 | 0.7% | 58.3 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on electric furnaces in homes with electric forced air heating | 19.0% | 10.0% | 44.03 |
| 2054 | Furnace Whistle - non-electric heating and central AC | SFA | NLI | Retrofit | 1,712.0 | 0.9% | 15.4 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on non-electric furnaces in homes with non-electric forced air heating | 49.0% | 10.0% | 27.65 |
| 2055 | Ductless Mini-Split Heat Pump (16 SEER / 9.0 hspf) - replacing baseboard/room AC | SFA | ALL | ROB | 11,245.0 | 60.7% | 6,827.0 | 1.363 | 0.30 | 15 | \$2,856.64 | Installation of a 16 SEER / 9.0 hspf ductless minisplit heat pump to replace baseboard heating in homes with baseboard heating and room air conditioning | 31.5% | 0.0% | 1.09 |

Measure Assumptions - Penn Power

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|--|-----------------|---------------|-------------------|
| 2056 | Ductless Mini-Split Air Conditioner (16 SEER) replacing room AC | SFA | ALL | ROB | 1,660.0 | 36.4% | 604.0 | 1.380 | 0.30 | 15 | \$2,856.64 | Installation of a 16 SEER / 9.0 hspf ductless minisplit air conditioner instead of standard room air conditioner in homes with room air conditioning and any form of electric heating other than baseboard heating | 31.5% | 22.0% | 0.19 |
| 2057 | High Efficiency Room Air Conditioner (11 CEER to 12 CEER) | SFA | NLI | ROB | 1,660.0 | 0.5% | 8.1 | 0.061 | 0.30 | 9 | \$40.00 | Installation of a high efficiency room air conditioner instead of standard room air conditioner in homes with room air conditioning and any form of electric heating other than baseboard heating | 58.6% | 22.0% | 0.27 |
| 2058 | Room AC Retirement | SFA | ALL | Retrofit | 1,685.6 | 8.8% | 148.0 | 0.640 | 0.30 | 4 | \$60.00 | Retirement of supplemental room air conditioners (not primary or secondary) in homes with room air conditioners | 14.0% | 0.0% | 1.21 |
| 2059 | Programmable Thermostat (electric heating and air conditioning) | SFA | NLI | Retrofit | 9,302.5 | 3.3% | 308.9 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with electric heating and air conditioning | 14.3% | 60.0% | 1.60 |
| 2060 | Smart Thermostat (electric heating and air conditioning) | SFA | NLI | Retrofit | 9,302.5 | 10.7% | 993.0 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with electric heating and air conditioning | 14.3% | 60.0% | 1.32 |
| 2061 | Programmable Thermostat (non-electric heating and air conditioning) | SFA | NLI | Retrofit | 1,712.0 | 2.0% | 34.2 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with non-electric heating and air conditioning | 71.7% | 60.0% | 0.20 |
| 2062 | Smart Thermostat (non-electric heating and air conditioning) | SFA | NLI | Retrofit | 1,712.0 | 13.7% | 235.2 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with non-electric heating and air conditioning | 71.7% | 60.0% | 0.35 |
| 2063 | Residential Whole House Fan | SFA | ALL | Retrofit | 1,712.0 | 8.9% | 152.3 | 0.000 | 0.65 | 15 | \$533.86 | Installation of residential whole house fan in homes with air conditioning | 86.0% | 9.1% | 0.12 |
| 2064 | Central AC Maintenance (10.4 SEER to 11 SEER) | SFA | LI | Retrofit | 1,741.0 | 1.7% | 29.0 | 0.108 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of central AC units in homes with central air conditioning | 55.6% | 71.0% | 0.34 |
| 2065 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) | SFA | LI | ROB | 1,404.0 | 9.4% | 132.0 | 0.179 | 0.65 | 14 | \$1,319.00 | Installation of 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 55.6% | 14.0% | 0.10 |
| 2066 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) | SFA | LI | ROB | 1,404.0 | 13.4% | 188.0 | 0.250 | 0.65 | 14 | \$2,499.23 | Installation of 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 55.6% | 14.0% | 0.07 |
| 2067 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) - with proper sizing | SFA | LI | ROB | 1,404.0 | 11.0% | 155.0 | 0.214 | 0.65 | 14 | \$1,230.23 | Installation of properly sized 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 55.6% | 14.0% | 0.12 |
| 2068 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) - with proper sizing | SFA | LI | ROB | 1,404.0 | 15.0% | 211.0 | 0.288 | 0.65 | 14 | \$2,410.41 | Installation of properly sized 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 55.6% | 14.0% | 0.08 |
| 2069 | Air Source Heat Pump Maintenance (12.3 SEER to 13 SEER / 7.3 hspf to 7.7 hspf) | SFA | LI | ROB | 6,099.0 | 6.7% | 407.0 | 0.147 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of air-source heat pump in homes with air-source heat pumps | 6.5% | 67.0% | 1.35 |
| 2070 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 15 SEER / 8.5 hspf) | SFA | LI | ROB | 5,275.0 | 3.5% | 187.0 | 0.079 | 0.65 | 12 | \$1,004.75 | Installation of 15 SEER / 8.5 hspf instead of standard air-source heat pump in homes with heat pumps | 6.5% | 14.0% | 0.09 |
| 2071 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 16 SEER / 9.0 hspf) | SFA | LI | ROB | 5,275.0 | 9.3% | 489.0 | 0.079 | 0.65 | 12 | \$1,269.59 | Installation of 16 SEER / 9.0 hspf instead of standard air-source heat pump in homes with heat pumps | 6.5% | 14.0% | 0.16 |
| 2072 | ENERGY STAR Air Source Heat Pump (Elec Furnace / CAC to 16 SEER / 9.0 hspf) | SFA | LI | ROB | 11,870.0 | 59.7% | 7,084.0 | 0.177 | 0.65 | 12 | \$2,829.74 | Installation of 16 SEER / 9.0 hspf instead of electric furnace in homes with electric furnaces | 4.2% | 0.0% | 0.90 |
| 2073 | Furnace Whistle - electric heating and central AC | SFA | LI | Retrofit | 8,233.4 | 0.7% | 58.3 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on electric furnaces in homes with electric forced air heating | 19.0% | 10.0% | 44.03 |
| 2074 | Furnace Whistle - non-electric heating and central AC | SFA | LI | Retrofit | 1,712.0 | 0.9% | 15.4 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on non-electric furnaces in homes with non-electric forced air heating | 49.0% | 10.0% | 27.65 |
| 2075 | High Efficiency Room Air Conditioner (11 CEER to 12 CEER) | SFA | LI | ROB | 1,660.0 | 0.5% | 8.1 | 0.061 | 0.30 | 9 | \$40.00 | Installation of a high efficiency room air conditioner instead of standard room air conditioner in homes with room air conditioning and any form of electric heating other than baseboard heating | 58.6% | 22.0% | 0.27 |
| 2076 | Programmable Thermostat (electric heating and air conditioning) | SFA | LI | Retrofit | 9,302.5 | 3.3% | 308.9 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with electric heating and air conditioning | 14.3% | 60.0% | 1.60 |
| 2077 | Smart Thermostat (electric heating and air conditioning) | SFA | LI | Retrofit | 9,302.5 | 10.7% | 993.0 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with electric heating and air conditioning | 14.3% | 60.0% | 1.32 |
| 2078 | Programmable Thermostat (non-electric heating and air conditioning) | SFA | LI | Retrofit | 1,712.0 | 2.0% | 34.2 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with non-electric heating and air conditioning | 71.7% | 60.0% | 0.20 |
| 2079 | Smart Thermostat (non-electric heating and air conditioning) | SFA | LI | Retrofit | 1,712.0 | 13.7% | 235.2 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with non-electric heating and air conditioning | 71.7% | 60.0% | 0.35 |
| 2080 | Central AC Maintenance (10.4 SEER to 11 SEER) | MF | NLI | Retrofit | 1,755.0 | 3.5% | 61.0 | 0.096 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of central AC units in homes with central air conditioning | 55.6% | 71.0% | 0.40 |
| 2081 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) | MF | NLI | ROB | 1,345.0 | 11.7% | 158.0 | 0.126 | 0.65 | 14 | \$1,141.46 | Installation of 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 55.6% | 14.0% | 0.10 |
| 2082 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) | MF | NLI | ROB | 1,345.0 | 16.8% | 226.0 | 0.185 | 0.65 | 14 | \$2,321.59 | Installation of 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 55.6% | 14.0% | 0.07 |
| 2083 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) - with proper sizing | MF | NLI | ROB | 1,345.0 | 13.0% | 175.0 | 0.151 | 0.65 | 14 | \$856.10 | Installation of properly sized 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 55.6% | 14.0% | 0.16 |

Measure Assumptions - Penn Power

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|---|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|--|-----------------|---------------|-------------------|
| 2084 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) - with proper sizing | MF | NLI | ROB | 1,345.0 | 17.8% | 240.0 | 0.202 | 0.65 | 14 | \$1,741.19 | Installation of properly sized 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 55.6% | 14.0% | 0.11 |
| 2085 | Air Source Heat Pump Maintenance (12.3 SEER to 13 SEER / 7.3 hspf to 7.7 hspf) | MF | NLI | Retrofit | 2,618.0 | 10.0% | 261.0 | 0.108 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of air-source heat pump in homes with air-source heat pumps | 6.5% | 67.0% | 0.90 |
| 2086 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 15 SEER / 8.5 hspf) | MF | NLI | ROB | 2,207.0 | 3.3% | 73.0 | 0.025 | 0.65 | 12 | \$781.39 | Installation of 15 SEER / 8.5 hspf instead of standard air-source heat pump in homes with heat pumps | 6.5% | 14.0% | 0.04 |
| 2087 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 16 SEER / 9.0 hspf) | MF | NLI | ROB | 2,207.0 | 7.7% | 169.0 | 0.050 | 0.65 | 12 | \$1,046.23 | Installation of 16 SEER / 9.0 hspf instead of standard air-source heat pump in homes with heat pumps | 6.5% | 14.0% | 0.07 |
| 2088 | ENERGY STAR Air Source Heat Pump (Elec Furnace / CAC to 16 SEER / 9.0 hspf) | MF | NLI | ROB | 3,661.0 | 44.3% | 1,623.0 | 0.144 | 0.65 | 12 | \$2,172.26 | Installation of 16 SEER / 9.0 hspf instead of electric furnace in homes with electric furnaces | 4.2% | 0.0% | 0.29 |
| 2089 | High Efficiency Furnace Fan (on existing furnace) - electric heating and central AC | MF | ALL | Retrofit | 3,661.0 | 12.2% | 446.0 | 0.176 | 0.65 | 18 | \$360.00 | Installation of high efficiency furnace fan on existing furnace in homes with electric furnaces | 19.0% | 34.0% | 0.71 |
| 2090 | High Efficiency Furnace Fan (on existing furnace) - non-electric heating and central AC | MF | ALL | Retrofit | 1,694.0 | 26.3% | 446.0 | 0.176 | 0.65 | 18 | \$360.00 | Installation of high efficiency furnace fan on existing furnace in homes with non-electric furnaces | 49.0% | 34.0% | 0.71 |
| 2091 | Furnace Whistle - electric heating and central AC | MF | NLI | Retrofit | 2,991.2 | 2.0% | 58.3 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on electric furnaces in homes with electric forced air heating | 19.0% | 10.0% | 44.03 |
| 2092 | Furnace Whistle - non-electric heating and central AC | MF | NLI | Retrofit | 1,694.0 | 0.9% | 15.4 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on non-electric furnaces in homes with non-electric forced air heating | 49.0% | 10.0% | 27.65 |
| 2093 | Ductless Mini-Split Heat Pump (16 SEER / 9.0 hspf) - replacing baseboard/room AC | MF | ALL | ROB | 3,420.0 | 58.2% | 1,992.0 | 1.065 | 0.30 | 15 | \$1,428.32 | Installation of a 16 SEER / 9.0 hspf ductless minisplit heat pump to replace baseboard heating in homes with baseboard heating and room air conditioning | 35.7% | 0.0% | 0.72 |
| 2094 | Ductless Mini-Split Air Conditioner (16 SEER) replacing room AC | MF | ALL | ROB | 1,485.0 | 47.1% | 700.0 | 1.089 | 0.30 | 15 | \$1,428.32 | Installation of a 16 SEER / 9.0 hspf ductless minisplit air conditioner instead of standard room air conditioner in homes with room air conditioning and any form of electric heating other than baseboard heating | 35.7% | 22.0% | 0.37 |
| 2095 | High Efficiency Room Air Conditioner (11 CEER to 12 CEER) | MF | NLI | ROB | 1,485.0 | 0.5% | 8.1 | 0.061 | 0.30 | 9 | \$40.00 | Installation of a high efficiency room air conditioner instead of standard room air conditioner in homes with room air conditioning and any form of electric heating other than baseboard heating | 49.8% | 22.0% | 0.27 |
| 2096 | Room AC Retirement | MF | ALL | Retrofit | 1,512.4 | 9.8% | 148.0 | 0.640 | 0.30 | 4 | \$60.00 | Retirement of supplemental room air conditioners (not primary or secondary) in homes with room air conditioners | 14.0% | 0.0% | 1.21 |
| 2097 | Programmable Thermostat (electric heating and air conditioning) | MF | NLI | Retrofit | 3,143.4 | 2.9% | 90.6 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with electric heating and air conditioning | 14.3% | 60.0% | 0.47 |
| 2098 | Smart Thermostat (electric heating and air conditioning) | MF | NLI | Retrofit | 3,143.4 | 12.1% | 380.4 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with electric heating and air conditioning | 14.3% | 60.0% | 0.51 |
| 2099 | Programmable Thermostat (non-electric heating and air conditioning) | MF | NLI | Retrofit | 1,694.0 | 2.0% | 33.9 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with non-electric heating and air conditioning | 71.7% | 60.0% | 0.20 |
| 2100 | Smart Thermostat (non-electric heating and air conditioning) | MF | NLI | Retrofit | 1,694.0 | 14.4% | 244.5 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with non-electric heating and air conditioning | 71.7% | 60.0% | 0.36 |
| 2101 | Residential Whole House Fan | MF | ALL | Retrofit | 1,694.0 | 4.6% | 78.4 | 0.000 | 0.65 | 15 | \$533.86 | Installation of residential whole house fan in homes with air conditioning | 86.0% | 9.1% | 0.07 |
| 2102 | Central AC Maintenance (10.4 SEER to 11 SEER) | MF | LI | Retrofit | 1,755.0 | 3.5% | 61.0 | 0.096 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of central AC units in homes with central air conditioning | 55.6% | 71.0% | 0.40 |
| 2103 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) | MF | LI | ROB | 1,345.0 | 11.7% | 158.0 | 0.126 | 0.65 | 14 | \$1,141.46 | Installation of 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 55.6% | 14.0% | 0.10 |
| 2104 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) | MF | LI | ROB | 1,345.0 | 16.8% | 226.0 | 0.185 | 0.65 | 14 | \$2,321.59 | Installation of 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 55.6% | 14.0% | 0.07 |
| 2105 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) - with proper sizing | MF | LI | ROB | 1,345.0 | 13.0% | 175.0 | 0.151 | 0.65 | 14 | \$856.10 | Installation of properly sized 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 55.6% | 14.0% | 0.16 |
| 2106 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) - with proper sizing | MF | LI | ROB | 1,345.0 | 17.8% | 240.0 | 0.202 | 0.65 | 14 | \$1,741.19 | Installation of properly sized 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 55.6% | 14.0% | 0.11 |
| 2107 | Air Source Heat Pump Maintenance (12.3 SEER to 13 SEER / 7.3 hspf to 7.7 hspf) | MF | LI | ROB | 2,618.0 | 10.0% | 261.0 | 0.108 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of air-source heat pump in homes with air-source heat pumps | 6.5% | 67.0% | 0.90 |
| 2108 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 15 SEER / 8.5 hspf) | MF | LI | ROB | 2,207.0 | 3.3% | 73.0 | 0.025 | 0.65 | 12 | \$781.39 | Installation of 15 SEER / 8.5 hspf instead of standard air-source heat pump in homes with heat pumps | 6.5% | 14.0% | 0.04 |
| 2109 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 16 SEER / 9.0 hspf) | MF | LI | ROB | 2,207.0 | 7.7% | 169.0 | 0.050 | 0.65 | 12 | \$1,046.23 | Installation of 16 SEER / 9.0 hspf instead of standard air-source heat pump in homes with heat pumps | 6.5% | 14.0% | 0.07 |
| 2110 | ENERGY STAR Air Source Heat Pump (Elec Furnace / CAC to 16 SEER / 9.0 hspf) | MF | LI | ROB | 3,661.0 | 44.3% | 1,623.0 | 0.144 | 0.65 | 12 | \$2,172.26 | Installation of 16 SEER / 9.0 hspf instead of electric furnace in homes with electric furnaces | 4.2% | 0.0% | 0.29 |
| 2111 | Furnace Whistle - electric heating and central AC | MF | LI | Retrofit | 2,991.2 | 2.0% | 58.3 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on electric furnaces in homes with electric forced air heating | 19.0% | 10.0% | 44.03 |
| 2112 | Furnace Whistle - non-electric heating and central AC | MF | LI | Retrofit | 1,694.0 | 0.9% | 15.4 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on non-electric furnaces in homes with non-electric forced air heating | 49.0% | 10.0% | 27.65 |

Measure Assumptions - Penn Power

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|---|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|---|-----------------|---------------|-------------------|
| 2113 | High Efficiency Room Air Conditioner (11 CEER to 12 CEER) | MF | LI | ROB | 1,485.0 | 0.5% | 8.1 | 0.061 | 0.30 | 9 | \$40.00 | Installation of a high efficiency room air conditioner instead of standard room air conditioner in homes with room air conditioning and any form of electric heating other than baseboard heating | 49.8% | 22.0% | 0.27 |
| 2114 | Programmable Thermostat (electric heating and air conditioning) | MF | LI | Retrofit | 3,143.4 | 2.9% | 90.6 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with electric heating and air conditioning | 14.3% | 60.0% | 0.47 |
| 2115 | Smart Thermostat (electric heating and air conditioning) | MF | LI | Retrofit | 3,143.4 | 12.1% | 380.4 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with electric heating and air conditioning | 14.3% | 60.0% | 0.51 |
| 2116 | Programmable Thermostat (non-electric heating and air conditioning) | MF | LI | Retrofit | 1,694.0 | 2.0% | 33.9 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with non-electric heating and air conditioning | 71.7% | 60.0% | 0.20 |
| 2117 | Smart Thermostat (non-electric heating and air conditioning) | MF | LI | Retrofit | 1,694.0 | 14.4% | 244.5 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with non-electric heating and air conditioning | 71.7% | 60.0% | 0.36 |
| 3000 | Domestic Hot Water | | | | | | | | | | | | | | |
| 3001 | Water Heater Temperature Setback | SFD | NLI | Retrofit | 1,966.9 | 7.7% | 151.3 | 0.012 | 1.00 | 4 | \$5.00 | Lowering water heater setpoint from 130 to 120 degrees | 43.0% | 81.6% | 5.44 |
| 3002 | Water Heater Pipe Insulation | SFD | NLI | Retrofit | 3,338.0 | 3.0% | 100.0 | 0.008 | 1.00 | 13 | \$30.00 | Installation of foam insulation on 10 feet of exposed pipe in unconditioned 3/4" thick. | 43.0% | 25.0% | 1.44 |
| 3003 | Low Flow Faucet Aerators - Bathroom | SFD | NLI | Retrofit | 71.2 | 31.9% | 22.7 | 0.003 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in bathroom to replace standard flow aerator | 148.7% | 45.0% | 6.15 |
| 3004 | Low Flow Faucet Aerators - Kitchen | SFD | NLI | Retrofit | 613.3 | 31.9% | 195.9 | 0.026 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in kitchen to replace standard flow aerator | 43.0% | 45.0% | 53.01 |
| 3005 | Low Flow Showerheads | SFD | NLI | Retrofit | 903.2 | 40.0% | 361.3 | 0.029 | 1.00 | 9 | \$6.00 | Installation of low flow showerhead in to replace standard flow showerhead | 79.2% | 31.0% | 20.28 |
| 3006 | Thermostatic Shower Restriction Valve | SFD | ALL | Retrofit | 106.1 | 100.0% | 106.1 | 0.009 | 1.00 | 10 | \$30.00 | Installation of thermostatic restriction valve to reduce hot water usage during shower warm-up in homes with electric water heating | 79.2% | 1.0% | 1.28 |
| 3007 | Drain Water Heat Recovery Device | SFD | NLI | Retrofit | 556.5 | 45.4% | 252.7 | 0.041 | 0.70 | 20 | \$1,022.00 | Installation of a drain water heat recovery device to recapture heated wastewater in homes with electric water heating | 43.0% | 1.0% | 0.12 |
| 3008 | Water Heater Tank Wrap | SFD | NLI | Retrofit | 389.1 | 54.9% | 213.6 | 0.024 | 1.00 | 7 | \$50.00 | Installation of insulated tank wrap to existing residential electric hot water heaters | 43.0% | 9.0% | 1.26 |
| 3009 | Heat Pump Water Heaters (50 - 75 gallon) | SFD | NLI | ROB | 3,005.7 | 45.7% | 1,373.3 | 0.111 | 1.00 | 14 | \$945.00 | Installation of 50-75 gallon heat pump water heater instead of standard storage electric storage water heater | 36.6% | 0.0% | 0.45 |
| 3010 | Solar Water Heaters | SFD | NLI | ROB | 3,005.7 | 48.6% | 1,462.0 | 0.118 | 1.00 | 15 | \$5,384.00 | Installation of solar water heater instead of standard storage electric storage water heater | 36.6% | 0.0% | 0.13 |
| 3011 | Heat Pump Water Heaters (75+ gallon) | SFD | NLI | ROB | 1,449.6 | 2.1% | 30.1 | 0.002 | 1.00 | 14 | \$1,369.00 | Installation of 75+ gallon heat pump water heater instead of standard storage electric storage water heater | 6.4% | 0.0% | 0.01 |
| 3012 | Water Heater Temperature Setback | SFD | LI | Retrofit | 1,966.9 | 7.7% | 151.3 | 0.012 | 1.00 | 4 | \$5.00 | Lowering water heater setpoint from 130 to 120 degrees | 43.0% | 81.6% | 5.44 |
| 3013 | Water Heater Pipe Insulation | SFD | LI | Retrofit | 3,338.0 | 3.0% | 100.0 | 0.008 | 1.00 | 13 | \$30.00 | Installation of foam insulation on 10 feet of exposed pipe in unconditioned 3/4" thick. | 43.0% | 25.0% | 1.44 |
| 3014 | Low Flow Faucet Aerators - Bathroom | SFD | LI | Retrofit | 71.2 | 31.9% | 22.7 | 0.003 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in bathroom to replace standard flow aerator | 148.7% | 45.0% | 6.15 |
| 3015 | Low Flow Faucet Aerators - Kitchen | SFD | LI | Retrofit | 613.3 | 31.9% | 195.9 | 0.026 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in kitchen to replace standard flow aerator | 43.0% | 45.0% | 53.01 |
| 3016 | Low Flow Showerheads | SFD | LI | Retrofit | 903.2 | 40.0% | 361.3 | 0.029 | 1.00 | 9 | \$6.00 | Installation of low flow showerhead in to replace standard flow showerhead | 79.2% | 31.0% | 20.28 |
| 3017 | Drain Water Heat Recovery Device | SFD | LI | Retrofit | 556.5 | 45.4% | 252.7 | 0.041 | 0.70 | 20 | \$1,022.00 | Installation of a drain water heat recovery device to recapture heated wastewater in homes with electric water heating | 43.0% | 1.0% | 0.12 |
| 3018 | Water Heater Tank Wrap | SFD | LI | Retrofit | 389.1 | 54.9% | 213.6 | 0.024 | 1.00 | 7 | \$50.00 | Installation of insulated tank wrap to existing residential electric hot water heaters | 43.0% | 9.0% | 1.26 |
| 3019 | Heat Pump Water Heaters (50 - 75 gallon) | SFD | LI | ROB | 3,005.7 | 45.7% | 1,373.3 | 0.111 | 1.00 | 14 | \$945.00 | Installation of 50-75 gallon heat pump water heater instead of standard storage electric storage water heater | 36.6% | 0.0% | 0.45 |
| 3020 | Solar Water Heaters | SFD | LI | ROB | 3,005.7 | 48.6% | 1,462.0 | 0.118 | 1.00 | 15 | \$5,384.00 | Installation of solar water heater instead of standard storage electric storage water heater | 36.6% | 0.0% | 0.13 |
| 3021 | Heat Pump Water Heaters (75+ gallon) | SFD | LI | ROB | 1,449.6 | 2.1% | 30.1 | 0.002 | 1.00 | 14 | \$1,369.00 | Installation of 75+ gallon heat pump water heater instead of standard storage electric storage water heater | 6.4% | 0.0% | 0.01 |
| 3022 | Water Heater Temperature Setback | SFD | ALL | NC | 1,966.9 | 7.7% | 151.3 | 0.012 | 1.00 | 4 | \$5.00 | Lowering water heater setpoint from 130 to 120 degrees | 43.0% | 0.0% | 5.44 |
| 3023 | Water Heater Pipe Insulation | SFD | ALL | NC | 3,338.0 | 3.0% | 100.0 | 0.008 | 1.00 | 13 | \$30.00 | Installation of foam insulation on 10 feet of exposed pipe in unconditioned 3/4" thick. | 43.0% | 0.0% | 1.44 |
| 3024 | Low Flow Faucet Aerators - Bathroom | SFD | ALL | NC | 71.2 | 31.9% | 22.7 | 0.003 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in bathroom to replace standard flow aerator | 148.7% | 0.0% | 6.15 |
| 3025 | Low Flow Faucet Aerators - Kitchen | SFD | ALL | NC | 613.3 | 31.9% | 195.9 | 0.026 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in kitchen to replace standard flow aerator | 43.0% | 0.0% | 53.01 |
| 3026 | Low Flow Showerheads | SFD | ALL | NC | 903.2 | 40.0% | 361.3 | 0.029 | 1.00 | 9 | \$6.00 | Installation of low flow showerhead in to replace standard flow showerhead | 79.2% | 0.0% | 20.28 |
| 3027 | Thermostatic Shower Restriction Valve | SFD | ALL | NC | 106.1 | 100.0% | 106.1 | 0.009 | 1.00 | 10 | \$30.00 | Installation of thermostatic restriction valve to reduce hot water usage during shower warm-up in homes with electric water heating | 79.2% | 0.0% | 1.28 |

Measure Assumptions - Penn Power

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|---|-----------------|---------------|-------------------|
| 3028 | Drain Water Heat Recovery Device | SFD | ALL | NC | 556.5 | 45.4% | 252.7 | 0.041 | 0.70 | 20 | \$1,022.00 | Installation of a drain water heat recovery device to recapture heated wastewater in homes with electric water heating | 43.0% | 0.0% | 0.12 |
| 3029 | Water Heater Tank Wrap | SFD | ALL | NC | 389.1 | 54.9% | 213.6 | 0.024 | 1.00 | 7 | \$50.00 | Installation of insulated tank wrap to existing residential electric hot water heaters | 43.0% | 0.0% | 1.26 |
| 3030 | Heat Pump Water Heaters (50 - 75 gallon) | SFD | ALL | NC | 3,005.7 | 45.7% | 1,373.3 | 0.111 | 1.00 | 14 | \$945.00 | Installation of 50-75 gallon heat pump water heater instead of standard storage electric storage water heater | 36.6% | 0.0% | 0.45 |
| 3031 | Solar Water Heaters | SFD | ALL | NC | 3,005.7 | 48.6% | 1,462.0 | 0.118 | 1.00 | 15 | \$5,384.00 | Installation of solar water heater instead of standard storage electric storage water heater | 36.6% | 0.0% | 0.13 |
| 3032 | Heat Pump Water Heaters (75+ gallon) | SFD | ALL | NC | 1,449.6 | 2.1% | 30.1 | 0.002 | 1.00 | 14 | \$1,369.00 | Installation of 75+ gallon heat pump water heater instead of standard storage electric storage water heater | 6.4% | 0.0% | 0.01 |
| 3033 | Water Heater Temperature Setback | SFA | NLI | Retrofit | 1,966.9 | 7.7% | 151.3 | 0.012 | 1.00 | 4 | \$5.00 | Lowering water heater setpoint from 130 to 120 degrees | 43.0% | 81.6% | 5.44 |
| 3034 | Water Heater Pipe Insulation | SFA | NLI | Retrofit | 3,338.0 | 3.0% | 100.0 | 0.008 | 1.00 | 13 | \$30.00 | Installation of foam insulation on 10 feet of exposed pipe in unconditioned 3/4" thick. | 43.0% | 25.0% | 1.44 |
| 3035 | Low Flow Faucet Aerators - Bathroom | SFA | NLI | Retrofit | 71.2 | 31.9% | 22.7 | 0.003 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in bathroom to replace standard flow aerator | 115.1% | 45.0% | 6.15 |
| 3036 | Low Flow Faucet Aerators - Kitchen | SFA | NLI | Retrofit | 613.3 | 31.9% | 195.9 | 0.026 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in kitchen to replace standard flow aerator | 43.0% | 45.0% | 53.01 |
| 3037 | Low Flow Showerheads | SFA | NLI | Retrofit | 903.2 | 40.0% | 361.3 | 0.029 | 1.00 | 9 | \$6.00 | Installation of low flow showerhead in to replace standard flow showerhead | 73.1% | 31.0% | 20.28 |
| 3038 | Thermostatic Shower Restriction Valve | SFA | ALL | Retrofit | 106.1 | 100.0% | 106.1 | 0.009 | 1.00 | 10 | \$30.00 | Installation of thermostatic restriction valve to reduce hot water usage during shower warm-up in homes with electric water heating | 73.1% | 1.0% | 1.28 |
| 3039 | Drain Water Heat Recovery Device | SFA | NLI | Retrofit | 556.5 | 45.4% | 252.7 | 0.041 | 0.70 | 20 | \$1,022.00 | Installation of a drain water heat recovery device to recapture heated wastewater in homes with electric water heating | 43.0% | 1.0% | 0.12 |
| 3040 | Water Heater Tank Wrap | SFA | NLI | Retrofit | 389.1 | 54.9% | 213.6 | 0.024 | 1.00 | 7 | \$50.00 | Installation of insulated tank wrap to existing residential electric hot water heaters | 43.0% | 9.0% | 1.26 |
| 3041 | Heat Pump Water Heaters (50 - 75 gallon) | SFA | NLI | ROB | 3,005.7 | 45.7% | 1,373.3 | 0.111 | 1.00 | 14 | \$945.00 | Installation of 50-75 gallon heat pump water heater instead of standard storage electric storage water heater | 36.6% | 0.0% | 0.45 |
| 3042 | Solar Water Heaters | SFA | NLI | ROB | 3,005.7 | 48.6% | 1,462.0 | 0.118 | 1.00 | 15 | \$5,384.00 | Installation of solar water heater instead of standard storage electric storage water heater | 36.6% | 0.0% | 0.13 |
| 3043 | Heat Pump Water Heaters (75+ gallon) | SFA | NLI | ROB | 1,449.6 | 2.1% | 30.1 | 0.002 | 1.00 | 14 | \$1,369.00 | Installation of 75+ gallon heat pump water heater instead of standard storage electric storage water heater | 6.4% | 0.0% | 0.01 |
| 3044 | Water Heater Temperature Setback | SFA | LI | Retrofit | 1,966.9 | 7.7% | 151.3 | 0.012 | 1.00 | 4 | \$5.00 | Lowering water heater setpoint from 130 to 120 degrees | 43.0% | 81.6% | 5.44 |
| 3045 | Water Heater Pipe Insulation | SFA | LI | Retrofit | 3,338.0 | 3.0% | 100.0 | 0.008 | 1.00 | 13 | \$30.00 | Installation of foam insulation on 10 feet of exposed pipe in unconditioned 3/4" thick. | 43.0% | 25.0% | 1.44 |
| 3046 | Low Flow Faucet Aerators - Bathroom | SFA | LI | Retrofit | 71.2 | 31.9% | 22.7 | 0.003 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in bathroom to replace standard flow aerator | 115.1% | 45.0% | 6.15 |
| 3047 | Low Flow Faucet Aerators - Kitchen | SFA | LI | Retrofit | 613.3 | 31.9% | 195.9 | 0.026 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in kitchen to replace standard flow aerator | 43.0% | 45.0% | 53.01 |
| 3048 | Low Flow Showerheads | SFA | LI | Retrofit | 903.2 | 40.0% | 361.3 | 0.029 | 1.00 | 9 | \$6.00 | Installation of low flow showerhead in to replace standard flow showerhead | 73.1% | 31.0% | 20.28 |
| 3049 | Drain Water Heat Recovery Device | SFA | LI | Retrofit | 556.5 | 45.4% | 252.7 | 0.041 | 0.70 | 20 | \$1,022.00 | Installation of a drain water heat recovery device to recapture heated wastewater in homes with electric water heating | 43.0% | 1.0% | 0.12 |
| 3050 | Water Heater Tank Wrap | SFA | LI | Retrofit | 389.1 | 54.9% | 213.6 | 0.024 | 1.00 | 7 | \$50.00 | Installation of insulated tank wrap to existing residential electric hot water heaters | 43.0% | 9.0% | 1.26 |
| 3051 | Heat Pump Water Heaters (50 - 75 gallon) | SFA | LI | ROB | 3,005.7 | 45.7% | 1,373.3 | 0.111 | 1.00 | 14 | \$945.00 | Installation of 50-75 gallon heat pump water heater instead of standard storage electric storage water heater | 36.6% | 0.0% | 0.45 |
| 3052 | Solar Water Heaters | SFA | LI | ROB | 3,005.7 | 48.6% | 1,462.0 | 0.118 | 1.00 | 15 | \$5,384.00 | Installation of solar water heater instead of standard storage electric storage water heater | 36.6% | 0.0% | 0.13 |
| 3053 | Heat Pump Water Heaters (75+ gallon) | SFA | LI | ROB | 1,449.6 | 2.1% | 30.1 | 0.002 | 1.00 | 14 | \$1,369.00 | Installation of 75+ gallon heat pump water heater instead of standard storage electric storage water heater | 6.4% | 0.0% | 0.01 |
| 3054 | Water Heater Temperature Setback | SFA | ALL | NC | 1,966.9 | 7.7% | 151.3 | 0.012 | 1.00 | 4 | \$5.00 | Lowering water heater setpoint from 130 to 120 degrees | 43.0% | 0.0% | 5.44 |
| 3055 | Water Heater Pipe Insulation | SFA | ALL | NC | 3,338.0 | 3.0% | 100.0 | 0.008 | 1.00 | 13 | \$30.00 | Installation of foam insulation on 10 feet of exposed pipe in unconditioned 3/4" thick. | 43.0% | 0.0% | 1.44 |
| 3056 | Low Flow Faucet Aerators - Bathroom | SFA | ALL | NC | 71.2 | 31.9% | 22.7 | 0.003 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in bathroom to replace standard flow aerator | 115.1% | 0.0% | 6.15 |
| 3057 | Low Flow Faucet Aerators - Kitchen | SFA | ALL | NC | 613.3 | 31.9% | 195.9 | 0.026 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in kitchen to replace standard flow aerator | 43.0% | 0.0% | 53.01 |
| 3058 | Low Flow Showerheads | SFA | ALL | NC | 903.2 | 40.0% | 361.3 | 0.029 | 1.00 | 9 | \$6.00 | Installation of low flow showerhead in to replace standard flow showerhead | 73.1% | 0.0% | 20.28 |
| 3059 | Thermostatic Shower Restriction Valve | SFA | ALL | NC | 106.1 | 100.0% | 106.1 | 0.009 | 1.00 | 10 | \$30.00 | Installation of thermostatic restriction valve to reduce hot water usage during shower warm-up in homes with electric water heating | 73.1% | 0.0% | 1.28 |
| 3060 | Drain Water Heat Recovery Device | SFA | ALL | NC | 556.5 | 45.4% | 252.7 | 0.041 | 0.70 | 20 | \$1,022.00 | Installation of a drain water heat recovery device to recapture heated wastewater in homes with electric water heating | 43.0% | 0.0% | 0.12 |

Measure Assumptions - Penn Power

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|---|-----------------|---------------|-------------------|
| 3061 | Water Heater Tank Wrap | SFA | ALL | NC | 389.1 | 54.9% | 213.6 | 0.024 | 1.00 | 7 | \$50.00 | Installation of insulated tank wrap to existing residential electric hot water heaters | 43.0% | 0.0% | 1.26 |
| 3062 | Heat Pump Water Heaters (50 - 75 gallon) | SFA | ALL | NC | 3,005.7 | 45.7% | 1,373.3 | 0.111 | 1.00 | 14 | \$945.00 | Installation of 50-75 gallon heat pump water heater instead of standard storage electric storage water heater | 36.6% | 0.0% | 0.45 |
| 3063 | Solar Water Heaters | SFA | ALL | NC | 3,005.7 | 48.6% | 1,462.0 | 0.118 | 1.00 | 15 | \$5,384.00 | Installation of solar water heater instead of standard storage electric storage water heater | 36.6% | 0.0% | 0.13 |
| 3064 | Heat Pump Water Heaters (75+ gallon) | SFA | ALL | NC | 1,449.6 | 2.1% | 30.1 | 0.002 | 1.00 | 14 | \$1,369.00 | Installation of 75+ gallon heat pump water heater instead of standard storage electric storage water heater | 6.4% | 0.0% | 0.01 |
| 3065 | Water Heater Temperature Setback | MF | NLI | Retrofit | 1,966.9 | 7.7% | 151.3 | 0.012 | 1.00 | 4 | \$5.00 | Lowering water heater setpoint from 130 to 120 degrees | 43.0% | 81.6% | 5.44 |
| 3066 | Water Heater Pipe Insulation | MF | NLI | Retrofit | 3,338.0 | 3.0% | 100.0 | 0.008 | 1.00 | 13 | \$30.00 | Installation of foam insulation on 10 feet of exposed pipe in unconditioned 3/4" thick. | 43.0% | 25.0% | 1.44 |
| 3067 | Low Flow Faucet Aerators - Bathroom | MF | NLI | Retrofit | 120.7 | 31.9% | 38.5 | 0.005 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in bathroom to replace standard flow aerator | 72.0% | 45.0% | 10.43 |
| 3068 | Low Flow Faucet Aerators - Kitchen | MF | NLI | Retrofit | 485.6 | 31.9% | 155.1 | 0.021 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in kitchen to replace standard flow aerator | 43.0% | 45.0% | 41.97 |
| 3069 | Low Flow Showerheads | MF | NLI | Retrofit | 845.0 | 40.0% | 338.0 | 0.027 | 1.00 | 9 | \$6.00 | Installation of low flow showerhead in to replace standard flow showerhead | 67.0% | 31.0% | 18.97 |
| 3070 | Thermostatic Shower Restriction Valve | MF | ALL | Retrofit | 99.3 | 100.0% | 99.3 | 0.008 | 1.00 | 10 | \$30.00 | Installation of thermostatic restriction valve to reduce hot water usage during shower warm-up in homes with electric water heating | 67.0% | 1.0% | 1.19 |
| 3071 | Drain Water Heat Recovery Device | MF | NLI | Retrofit | 371.0 | 45.4% | 168.4 | 0.027 | 0.70 | 20 | \$1,022.00 | Installation of a drain water heat recovery device to recapture heated wastewater in homes with electric water heating | 43.0% | 1.0% | 0.08 |
| 3072 | Water Heater Tank Wrap | MF | NLI | Retrofit | 389.1 | 54.9% | 213.6 | 0.024 | 1.00 | 7 | \$50.00 | Installation of insulated tank wrap to existing residential electric hot water heaters | 43.0% | 9.0% | 1.26 |
| 3073 | Heat Pump Water Heaters (50 - 75 gallon) | MF | NLI | ROB | 3,005.7 | 45.7% | 1,373.3 | 0.111 | 1.00 | 14 | \$945.00 | Installation of 50-75 gallon heat pump water heater instead of standard storage electric storage water heater | 36.6% | 0.0% | 0.45 |
| 3074 | Solar Water Heaters | MF | NLI | ROB | 3,005.7 | 48.6% | 1,462.0 | 0.118 | 1.00 | 15 | \$5,384.00 | Installation of solar water heater instead of standard storage electric storage water heater | 36.6% | 0.0% | 0.13 |
| 3075 | Heat Pump Water Heaters (75+ gallon) | MF | NLI | ROB | 1,449.6 | 2.1% | 30.1 | 0.002 | 1.00 | 14 | \$1,369.00 | Installation of 75+ gallon heat pump water heater instead of standard storage electric storage water heater | 6.4% | 0.0% | 0.01 |
| 3076 | Water Heater Temperature Setback | MF | LI | Retrofit | 1,966.9 | 7.7% | 151.3 | 0.012 | 1.00 | 4 | \$5.00 | Lowering water heater setpoint from 130 to 120 degrees | 43.0% | 81.6% | 5.44 |
| 3077 | Water Heater Pipe Insulation | MF | LI | Retrofit | 3,338.0 | 3.0% | 100.0 | 0.008 | 1.00 | 13 | \$30.00 | Installation of foam insulation on 10 feet of exposed pipe in unconditioned 3/4" thick. | 43.0% | 25.0% | 1.44 |
| 3078 | Low Flow Faucet Aerators - Bathroom | MF | LI | Retrofit | 120.7 | 31.9% | 38.5 | 0.005 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in bathroom to replace standard flow aerator | 72.0% | 45.0% | 10.43 |
| 3079 | Low Flow Faucet Aerators - Kitchen | MF | LI | Retrofit | 485.6 | 31.9% | 155.1 | 0.021 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in kitchen to replace standard flow aerator | 43.0% | 45.0% | 41.97 |
| 3080 | Low Flow Showerheads | MF | LI | Retrofit | 845.0 | 40.0% | 338.0 | 0.027 | 1.00 | 9 | \$6.00 | Installation of low flow showerhead in to replace standard flow showerhead | 67.0% | 31.0% | 18.97 |
| 3081 | Drain Water Heat Recovery Device | MF | LI | Retrofit | 371.0 | 45.4% | 168.4 | 0.027 | 0.70 | 20 | \$1,022.00 | Installation of a drain water heat recovery device to recapture heated wastewater in homes with electric water heating | 43.0% | 1.0% | 0.08 |
| 3082 | Water Heater Tank Wrap | MF | LI | Retrofit | 389.1 | 54.9% | 213.6 | 0.024 | 1.00 | 7 | \$50.00 | Installation of insulated tank wrap to existing residential electric hot water heaters | 43.0% | 9.0% | 1.26 |
| 3083 | Heat Pump Water Heaters (50 - 75 gallon) | MF | LI | ROB | 3,005.7 | 45.7% | 1,373.3 | 0.111 | 1.00 | 14 | \$945.00 | Installation of 50-75 gallon heat pump water heater instead of standard storage electric storage water heater | 36.6% | 0.0% | 0.45 |
| 3084 | Solar Water Heaters | MF | LI | ROB | 3,005.7 | 48.6% | 1,462.0 | 0.118 | 1.00 | 15 | \$5,384.00 | Installation of solar water heater instead of standard storage electric storage water heater | 36.6% | 0.0% | 0.13 |
| 3085 | Heat Pump Water Heaters (75+ gallon) | MF | LI | ROB | 1,449.6 | 2.1% | 30.1 | 0.002 | 1.00 | 14 | \$1,369.00 | Installation of 75+ gallon heat pump water heater instead of standard storage electric storage water heater | 6.4% | 0.0% | 0.01 |
| 3086 | Water Heater Temperature Setback | MF | ALL | NC | 1,966.9 | 7.7% | 151.3 | 0.012 | 1.00 | 4 | \$5.00 | Lowering water heater setpoint from 130 to 120 degrees | 43.0% | 0.0% | 5.44 |
| 3087 | Water Heater Pipe Insulation | MF | ALL | NC | 3,338.0 | 3.0% | 100.0 | 0.008 | 1.00 | 13 | \$30.00 | Installation of foam insulation on 10 feet of exposed pipe in unconditioned 3/4" thick. | 43.0% | 0.0% | 1.44 |
| 3088 | Low Flow Faucet Aerators - Bathroom | MF | ALL | NC | 120.7 | 31.9% | 38.5 | 0.005 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in bathroom to replace standard flow aerator | 72.0% | 0.0% | 10.43 |
| 3089 | Low Flow Faucet Aerators - Kitchen | MF | ALL | NC | 485.6 | 31.9% | 155.1 | 0.021 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in kitchen to replace standard flow aerator | 43.0% | 0.0% | 41.97 |
| 3090 | Low Flow Showerheads | MF | ALL | NC | 845.0 | 40.0% | 338.0 | 0.027 | 1.00 | 9 | \$6.00 | Installation of low flow showerhead in to replace standard flow showerhead | 67.0% | 0.0% | 18.97 |
| 3091 | Thermostatic Shower Restriction Valve | MF | ALL | NC | 99.3 | 100.0% | 99.3 | 0.008 | 1.00 | 10 | \$30.00 | Installation of thermostatic restriction valve to reduce hot water usage during shower warm-up in homes with electric water heating | 67.0% | 0.0% | 1.19 |
| 3092 | Drain Water Heat Recovery Device | MF | ALL | NC | 371.0 | 45.4% | 168.4 | 0.027 | 0.70 | 20 | \$1,022.00 | Installation of a drain water heat recovery device to recapture heated wastewater in homes with electric water heating | 43.0% | 0.0% | 0.08 |
| 3093 | Water Heater Tank Wrap | MF | ALL | NC | 389.1 | 54.9% | 213.6 | 0.024 | 1.00 | 7 | \$50.00 | Installation of insulated tank wrap to existing residential electric hot water heaters | 43.0% | 0.0% | 1.26 |
| 3094 | Heat Pump Water Heaters (50 - 75 gallon) | MF | ALL | NC | 3,005.7 | 45.7% | 1,373.3 | 0.111 | 1.00 | 14 | \$945.00 | Installation of 50-75 gallon heat pump water heater instead of standard storage electric storage water heater | 36.6% | 0.0% | 0.45 |

Measure Assumptions - Penn Power

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|--|-----------------|---------------|-------------------|
| 3095 | Solar Water Heaters | MF | ALL | NC | 3,005.7 | 48.6% | 1,462.0 | 0.118 | 1.00 | 15 | \$5,384.00 | Installation of solar water heater instead of standard storage electric storage water heater | 36.6% | 0.0% | 0.13 |
| 3096 | Heat Pump Water Heaters (75+ gallon) | MF | ALL | NC | 1,449.6 | 2.1% | 30.1 | 0.002 | 1.00 | 14 | \$1,369.00 | Installation of 75+ gallon heat pump water heater instead of standard storage electric storage water heater | 6.4% | 0.0% | 0.01 |
| 4000 | Appliances | | | | | | | | | | | | | | |
| 4001 | Refrigerator Recycling with Replacement | SFD | NLI | Retrofit | 972.2 | 40.0% | 388.9 | 0.044 | 1.00 | 7 | \$120.00 | Retirement and replacement of non-primary refrigerators in homes with more than one refrigerator; replacement unit assumed to be standard efficiency model | 34.0% | 0.0% | 0.95 |
| 4002 | Refrigerator Recycling without Replacement | SFD | NLI | Retrofit | 972.2 | 100.0% | 972.2 | 0.109 | 1.00 | 8 | \$120.00 | Retirement (no replacement) of non-primary refrigerators in homes with more than one refrigerator | 34.0% | 0.0% | 2.61 |
| 4003 | Freezer Recycling with Replacement | SFD | ALL | Retrofit | 1,130.6 | 54.1% | 611.5 | 0.068 | 1.00 | 7 | \$120.00 | Retirement and replacement of non-primary freezers in homes with more than one freezer; replacement unit assumed to be standard efficiency model | 6.0% | 0.0% | 1.49 |
| 4004 | Freezer Recycling without Replacement | SFD | ALL | Retrofit | 1,130.6 | 100.0% | 1,130.6 | 0.127 | 1.00 | 8 | \$120.00 | Retirement (no replacement) of non-primary refrigerators in homes with more than one refrigerator | 6.0% | 0.0% | 3.04 |
| 4005 | ENERGY STAR Refrigerators (Top-Mount) | SFD | NLI | ROB | 462.2 | 8.2% | 37.9 | 0.004 | 1.00 | 12 | \$21.83 | Installation of ENERGY STAR top-mount refrigerator instead of standard efficiency unit | 53.0% | 31.0% | 0.73 |
| 4006 | ENERGY STAR Refrigerators (Side-by-Side) | SFD | NLI | ROB | 608.9 | 8.6% | 52.5 | 0.006 | 1.00 | 12 | \$57.31 | Installation of ENERGY STAR side-mount refrigerator instead of standard efficiency unit | 26.0% | 31.0% | 0.39 |
| 4007 | ENERGY STAR Refrigerators (Bottom-Mount) | SFD | NLI | ROB | 644.2 | 8.7% | 55.9 | 0.006 | 1.00 | 12 | \$17.29 | Installation of ENERGY STAR bottom-mount refrigerator instead of standard efficiency unit | 12.0% | 31.0% | 1.37 |
| 4008 | ENERGY STAR Freezers (Upright) | SFD | NLI | ROB | 483.2 | 9.1% | 44.0 | 0.005 | 1.00 | 12 | \$6.75 | Installation of ENERGY STAR upright freezers instead of standard efficiency unit | 27.3% | 6.0% | 2.76 |
| 4009 | ENERGY STAR Freezers (Chest) | SFD | NLI | ROB | 290.1 | 10.0% | 29.0 | 0.003 | 1.00 | 12 | \$5.23 | Installation of ENERGY STAR chest freezers instead of standard efficiency unit | 24.2% | 6.0% | 2.34 |
| 4010 | ENERGY STAR Clothes Washers (Electric Water Heating) | SFD | NLI | ROB | 490.9 | 34.1% | 167.4 | 0.670 | 0.029 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 39.4% | 20.0% | 1.35 |
| 4011 | ENERGY STAR Clothes Washers (Gas Water Heating) | SFD | NLI | ROB | 244.7 | 17.4% | 42.7 | 0.171 | 0.029 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with gas water heating | 52.3% | 20.0% | 0.34 |
| 4012 | ENERGY STAR Dishwashers (Electric Water Heating) | SFD | ALL | ROB | 307.0 | 12.1% | 37.0 | 0.158 | 0.026 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with electric water heating | 23.0% | 40.0% | 1.39 |
| 4013 | ENERGY STAR Dishwashers (Gas Water Heating) | SFD | ALL | ROB | 135.1 | 12.1% | 16.3 | 0.070 | 0.026 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with gas water heating | 30.4% | 40.0% | 0.61 |
| 4014 | ENERGY STAR Dehumidifiers | SFD | NLI | ROB | 792.4 | 18.9% | 149.9 | 0.092 | 0.41 | 12 | \$20.21 | Installation of ENERGY STAR dehumidifier instead of standard efficiency unit | 43.5% | 83.9% | 3.70 |
| 4015 | ENERGY STAR Water Coolers | SFD | ALL | ROB | 799.4 | 60.3% | 481.8 | 0.055 | 1.00 | 10 | \$50.00 | Installation of ENERGY STAR water cooler instead of standard efficiency unit | 1.2% | 68.5% | 3.64 |
| 4016 | ENERGY STAR Air Purifier/Cleaner | SFD | ALL | ROB | 587.0 | 66.6% | 391.0 | 0.067 | 1.00 | 9 | \$70.00 | Installation of ENERGY STAR air purifier instead of standard efficiency unit | 9.9% | 33.3% | 2.11 |
| 4017 | ENERGY STAR Dryers | SFD | ALL | ROB | 538.0 | 5.1% | 27.4 | 0.115 | 0.04 | 13 | \$50.00 | Installation of ENERGY STAR dryer instead of standard efficiency unit in homes with electric dryers | 65.8% | 25.0% | 0.27 |
| 4018 | Refrigerator Recycling with Replacement | SFD | LI | Retrofit | 972.2 | 40.0% | 388.9 | 0.044 | 1.00 | 7 | \$120.00 | Retirement and replacement of non-primary refrigerators in homes with more than one refrigerator; replacement unit assumed to be standard efficiency model | 34.0% | 0.0% | 0.95 |
| 4019 | Refrigerator Recycling without Replacement | SFD | LI | Retrofit | 972.2 | 100.0% | 972.2 | 0.109 | 1.00 | 8 | \$120.00 | Retirement (no replacement) of non-primary refrigerators in homes with more than one refrigerator | 34.0% | 0.0% | 2.61 |
| 4020 | ENERGY STAR Refrigerators (Top-Mount) | SFD | LI | ROB | 462.2 | 8.2% | 37.9 | 0.004 | 1.00 | 12 | \$21.83 | Installation of ENERGY STAR top-mount refrigerator instead of standard efficiency unit | 53.0% | 31.0% | 0.73 |
| 4021 | ENERGY STAR Refrigerators (Side-by-Side) | SFD | LI | ROB | 608.9 | 8.6% | 52.5 | 0.006 | 1.00 | 12 | \$57.31 | Installation of ENERGY STAR side-mount refrigerator instead of standard efficiency unit | 26.0% | 31.0% | 0.39 |
| 4022 | ENERGY STAR Refrigerators (Bottom-Mount) | SFD | LI | ROB | 644.2 | 8.7% | 55.9 | 0.006 | 1.00 | 12 | \$17.29 | Installation of ENERGY STAR bottom-mount refrigerator instead of standard efficiency unit | 12.0% | 31.0% | 1.37 |
| 4023 | ENERGY STAR Freezers (Upright) | SFD | LI | ROB | 483.2 | 9.1% | 44.0 | 0.005 | 1.00 | 12 | \$6.75 | Installation of ENERGY STAR upright freezers instead of standard efficiency unit | 27.3% | 6.0% | 2.76 |
| 4024 | ENERGY STAR Freezers (Chest) | SFD | LI | ROB | 290.1 | 10.0% | 29.0 | 0.003 | 1.00 | 12 | \$5.23 | Installation of ENERGY STAR chest freezers instead of standard efficiency unit | 24.2% | 6.0% | 2.34 |
| 4025 | ENERGY STAR Clothes Washers (Electric Water Heating) | SFD | LI | ROB | 490.9 | 34.1% | 167.4 | 0.670 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 39.4% | 20.0% | 1.35 |
| 4026 | ENERGY STAR Clothes Washers (Gas Water Heating) | SFD | LI | ROB | 244.7 | 17.4% | 42.7 | 0.171 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with gas water heating | 52.3% | 20.0% | 0.34 |
| 4027 | ENERGY STAR Dehumidifiers | SFD | LI | ROB | 792.4 | 18.9% | 149.9 | 0.092 | 0.41 | 12 | \$20.21 | Installation of ENERGY STAR dehumidifier instead of standard efficiency unit | 43.5% | 83.9% | 3.70 |
| 4028 | ENERGY STAR Refrigerators (Top-Mount) | SFD | ALL | NC | 462.2 | 8.2% | 37.9 | 0.004 | 1.00 | 12 | \$21.83 | Installation of ENERGY STAR top-mount refrigerator instead of standard efficiency unit | 53.0% | 0.0% | 0.73 |
| 4029 | ENERGY STAR Refrigerators (Side-by-Side) | SFD | ALL | NC | 608.9 | 8.6% | 52.5 | 0.006 | 1.00 | 12 | \$57.31 | Installation of ENERGY STAR side-mount refrigerator instead of standard efficiency unit | 26.0% | 0.0% | 0.39 |
| 4030 | ENERGY STAR Refrigerators (Bottom-Mount) | SFD | ALL | NC | 644.2 | 8.7% | 55.9 | 0.006 | 1.00 | 12 | \$17.29 | Installation of ENERGY STAR bottom-mount refrigerator instead of standard efficiency unit | 12.0% | 0.0% | 1.37 |

Measure Assumptions - Penn Power

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|--|-----------------|---------------|-------------------|
| 4031 | ENERGY STAR Freezers (Upright) | SFD | ALL | NC | 483.2 | 9.1% | 44.0 | 0.005 | 1.00 | 12 | \$6.75 | Installation of ENERGY STAR upright freezers instead of standard efficiency unit | 27.3% | 0.0% | 2.76 |
| 4032 | ENERGY STAR Freezers (Chest) | SFD | ALL | NC | 290.1 | 10.0% | 29.0 | 0.003 | 1.00 | 12 | \$5.23 | Installation of ENERGY STAR chest freezers instead of standard efficiency unit | 24.2% | 0.0% | 2.34 |
| 4033 | ENERGY STAR Clothes Washers (Electric Water Heating) | SFD | ALL | NC | 490.9 | 34.1% | 167.4 | 0.670 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 39.4% | 0.0% | 1.35 |
| 4034 | ENERGY STAR Clothes Washers (Gas Water Heating) | SFD | ALL | NC | 244.7 | 17.4% | 42.7 | 0.171 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 52.3% | 0.0% | 0.34 |
| 4035 | ENERGY STAR Dishwashers (Electric Water Heating) | SFD | ALL | NC | 307.0 | 12.1% | 37.0 | 0.158 | 0.03 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with electric water heating | 23.0% | 0.0% | 1.39 |
| 4036 | ENERGY STAR Dishwashers (Gas Water Heating) | SFD | ALL | NC | 135.1 | 12.1% | 16.3 | 0.070 | 0.03 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with gas water heating | 30.4% | 0.0% | 0.61 |
| 4037 | ENERGY STAR Dehumidifiers | SFD | ALL | NC | 792.4 | 18.9% | 149.9 | 0.092 | 0.41 | 12 | \$20.21 | Installation of ENERGY STAR dehumidifier instead of standard efficiency unit | 43.5% | 0.0% | 3.70 |
| 4038 | ENERGY STAR Water Coolers | SFD | ALL | NC | 799.4 | 60.3% | 481.8 | 0.055 | 1.00 | 10 | \$50.00 | Installation of ENERGY STAR water cooler instead of standard efficiency unit | 1.2% | 0.0% | 3.64 |
| 4039 | ENERGY STAR Air Purifier/Cleaner | SFD | ALL | NC | 587.0 | 66.6% | 391.0 | 0.067 | 1.00 | 9 | \$70.00 | Installation of ENERGY STAR air purifier instead of standard efficiency unit | 9.9% | 0.0% | 2.11 |
| 4040 | ENERGY STAR Dryers | SFD | ALL | NC | 538.0 | 5.1% | 27.4 | 0.115 | 0.04 | 13 | \$50.00 | Installation of ENERGY STAR dryer instead of standard efficiency unit in homes with electric dryers | 65.8% | 0.0% | 0.27 |
| 4041 | Refrigerator Recycling with Replacement | SFA | NLI | Retrofit | 972.2 | 40.0% | 388.9 | 0.044 | 1.00 | 7 | \$120.00 | Retirement and replacement of non-primary refrigerators in homes with more than one refrigerator; replacement unit assumed to be standard efficiency model | 34.0% | 0.0% | 0.95 |
| 4042 | Refrigerator Recycling without Replacement | SFA | NLI | Retrofit | 972.2 | 100.0% | 972.2 | 0.109 | 1.00 | 8 | \$120.00 | Retirement (no replacement) of non-primary refrigerators in homes with more than one refrigerator | 34.0% | 0.0% | 2.61 |
| 4043 | Freezer Recycling with Replacement | SFA | ALL | Retrofit | 1,130.6 | 54.1% | 611.5 | 0.068 | 1.00 | 7 | \$120.00 | Retirement and replacement of non-primary freezers in homes with more than one freezer; replacement unit assumed to be standard efficiency model | 6.0% | 0.0% | 1.49 |
| 4044 | Freezer Recycling without Replacement | SFA | ALL | Retrofit | 1,130.6 | 100.0% | 1,130.6 | 0.127 | 1.00 | 8 | \$120.00 | Retirement (no replacement) of non-primary refrigerators in homes with more than one refrigerator | 6.0% | 0.0% | 3.04 |
| 4045 | ENERGY STAR Refrigerators (Top-Mount) | SFA | NLI | ROB | 462.2 | 8.2% | 37.9 | 0.004 | 1.00 | 12 | \$21.83 | Installation of ENERGY STAR top-mount refrigerator instead of standard efficiency unit | 53.0% | 31.0% | 0.73 |
| 4046 | ENERGY STAR Refrigerators (Side-by-Side) | SFA | NLI | ROB | 608.9 | 8.6% | 52.5 | 0.006 | 1.00 | 12 | \$57.31 | Installation of ENERGY STAR side-mount refrigerator instead of standard efficiency unit | 26.0% | 31.0% | 0.39 |
| 4047 | ENERGY STAR Refrigerators (Bottom-Mount) | SFA | NLI | ROB | 644.2 | 8.7% | 55.9 | 0.006 | 1.00 | 12 | \$17.29 | Installation of ENERGY STAR bottom-mount refrigerator instead of standard efficiency unit | 12.0% | 31.0% | 1.37 |
| 4048 | ENERGY STAR Freezers (Upright) | SFA | NLI | ROB | 483.2 | 9.1% | 44.0 | 0.005 | 1.00 | 12 | \$6.75 | Installation of ENERGY STAR upright freezers instead of standard efficiency unit | 27.3% | 6.0% | 2.76 |
| 4049 | ENERGY STAR Freezers (Chest) | SFA | NLI | ROB | 290.1 | 10.0% | 29.0 | 0.003 | 1.00 | 12 | \$5.23 | Installation of ENERGY STAR chest freezers instead of standard efficiency unit | 24.2% | 6.0% | 2.34 |
| 4050 | ENERGY STAR Clothes Washers (Electric Water Heating) | SFA | NLI | ROB | 490.9 | 34.1% | 167.4 | 0.670 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 39.4% | 20.0% | 1.35 |
| 4051 | ENERGY STAR Clothes Washers (Gas Water Heating) | SFA | NLI | ROB | 244.7 | 17.4% | 42.7 | 0.171 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 52.3% | 20.0% | 0.34 |
| 4052 | ENERGY STAR Dishwashers (Electric Water Heating) | SFA | ALL | ROB | 307.0 | 12.1% | 37.0 | 0.158 | 0.03 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with electric water heating | 23.0% | 40.0% | 1.39 |
| 4053 | ENERGY STAR Dishwashers (Gas Water Heating) | SFA | ALL | ROB | 135.1 | 12.1% | 16.3 | 0.070 | 0.03 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with gas water heating | 30.4% | 40.0% | 0.61 |
| 4054 | ENERGY STAR Dehumidifiers | SFA | NLI | ROB | 792.4 | 18.9% | 149.9 | 0.092 | 0.41 | 12 | \$20.21 | Installation of ENERGY STAR dehumidifier instead of standard efficiency unit | 43.5% | 83.9% | 3.70 |
| 4055 | ENERGY STAR Water Coolers | SFA | ALL | ROB | 799.4 | 60.3% | 481.8 | 0.055 | 1.00 | 10 | \$50.00 | Installation of ENERGY STAR water cooler instead of standard efficiency unit | 1.2% | 68.5% | 3.64 |
| 4056 | ENERGY STAR Air Purifier/Cleaner | SFA | ALL | ROB | 587.0 | 66.6% | 391.0 | 0.067 | 1.00 | 9 | \$70.00 | Installation of ENERGY STAR air purifier instead of standard efficiency unit | 9.9% | 33.3% | 2.11 |
| 4057 | ENERGY STAR Dryers | SFA | ALL | ROB | 538.0 | 5.1% | 27.4 | 0.115 | 0.04 | 13 | \$50.00 | Installation of ENERGY STAR dryer instead of standard efficiency unit in homes with electric dryers | 65.8% | 25.0% | 0.27 |
| 4058 | Refrigerator Recycling with Replacement | SFA | LI | Retrofit | 972.2 | 40.0% | 388.9 | 0.044 | 1.00 | 7 | \$120.00 | Retirement and replacement of non-primary refrigerators in homes with more than one refrigerator; replacement unit assumed to be standard efficiency model | 34.0% | 0.0% | 0.95 |
| 4059 | Refrigerator Recycling without Replacement | SFA | LI | Retrofit | 972.2 | 100.0% | 972.2 | 0.109 | 1.00 | 8 | \$120.00 | Retirement (no replacement) of non-primary refrigerators in homes with more than one refrigerator | 34.0% | 0.0% | 2.61 |
| 4060 | ENERGY STAR Refrigerators (Top-Mount) | SFA | LI | ROB | 462.2 | 8.2% | 37.9 | 0.004 | 1.00 | 12 | \$21.83 | Installation of ENERGY STAR top-mount refrigerator instead of standard efficiency unit | 53.0% | 31.0% | 0.73 |
| 4061 | ENERGY STAR Refrigerators (Side-by-Side) | SFA | LI | ROB | 608.9 | 8.6% | 52.5 | 0.006 | 1.00 | 12 | \$57.31 | Installation of ENERGY STAR side-mount refrigerator instead of standard efficiency unit | 26.0% | 31.0% | 0.39 |

Measure Assumptions - Penn Power

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|--|-----------------|---------------|-------------------|
| 4062 | ENERGY STAR Refrigerators (Bottom-Mount) | SFA | LI | ROB | 644.2 | 8.7% | 55.9 | 0.006 | 1.00 | 12 | \$17.29 | Installation of ENERGY STAR bottom-mount refrigerator instead of standard efficiency unit | 12.0% | 31.0% | 1.37 |
| 4063 | ENERGY STAR Freezers (Upright) | SFA | LI | ROB | 483.2 | 9.1% | 44.0 | 0.005 | 1.00 | 12 | \$6.75 | Installation of ENERGY STAR upright freezers instead of standard efficiency unit | 27.3% | 6.0% | 2.76 |
| 4064 | ENERGY STAR Freezers (Chest) | SFA | LI | ROB | 290.1 | 10.0% | 29.0 | 0.003 | 1.00 | 12 | \$5.23 | Installation of ENERGY STAR chest freezers instead of standard efficiency unit | 24.2% | 6.0% | 2.34 |
| 4065 | ENERGY STAR Clothes Washers (Electric Water Heating) | SFA | LI | ROB | 490.9 | 34.1% | 167.4 | 0.670 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 39.4% | 20.0% | 1.35 |
| 4066 | ENERGY STAR Clothes Washers (Gas Water Heating) | SFA | LI | ROB | 244.7 | 17.4% | 42.7 | 0.171 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 52.3% | 20.0% | 0.34 |
| 4067 | ENERGY STAR Dehumidifiers | SFA | LI | ROB | 792.4 | 18.9% | 149.9 | 0.092 | 0.41 | 12 | \$20.21 | Installation of ENERGY STAR dehumidifier instead of standard efficiency unit | 43.5% | 83.9% | 3.70 |
| 4068 | ENERGY STAR Refrigerators (Top-Mount) | SFA | ALL | NC | 462.2 | 8.2% | 37.9 | 0.004 | 1.00 | 12 | \$21.83 | Installation of ENERGY STAR top-mount refrigerator instead of standard efficiency unit | 53.0% | 0.0% | 0.73 |
| 4069 | ENERGY STAR Refrigerators (Side-by-Side) | SFA | ALL | NC | 608.9 | 8.6% | 52.5 | 0.006 | 1.00 | 12 | \$57.31 | Installation of ENERGY STAR side-mount refrigerator instead of standard efficiency unit | 26.0% | 0.0% | 0.39 |
| 4070 | ENERGY STAR Refrigerators (Bottom-Mount) | SFA | ALL | NC | 644.2 | 8.7% | 55.9 | 0.006 | 1.00 | 12 | \$17.29 | Installation of ENERGY STAR bottom-mount refrigerator instead of standard efficiency unit | 12.0% | 0.0% | 1.37 |
| 4071 | ENERGY STAR Freezers (Upright) | SFA | ALL | NC | 483.2 | 9.1% | 44.0 | 0.005 | 1.00 | 12 | \$6.75 | Installation of ENERGY STAR upright freezers instead of standard efficiency unit | 27.3% | 0.0% | 2.76 |
| 4072 | ENERGY STAR Freezers (Chest) | SFA | ALL | NC | 290.1 | 10.0% | 29.0 | 0.003 | 1.00 | 12 | \$5.23 | Installation of ENERGY STAR chest freezers instead of standard efficiency unit | 24.2% | 0.0% | 2.34 |
| 4073 | ENERGY STAR Clothes Washers (Electric Water Heating) | SFA | ALL | NC | 490.9 | 34.1% | 167.4 | 0.670 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 39.4% | 0.0% | 1.35 |
| 4074 | ENERGY STAR Clothes Washers (Gas Water Heating) | SFA | ALL | NC | 244.7 | 17.4% | 42.7 | 0.171 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 52.3% | 0.0% | 0.34 |
| 4075 | ENERGY STAR Dishwashers (Electric Water Heating) | SFA | ALL | NC | 307.0 | 12.1% | 37.0 | 0.158 | 0.03 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with electric water heating | 23.0% | 0.0% | 1.39 |
| 4076 | ENERGY STAR Dishwashers (Gas Water Heating) | SFA | ALL | NC | 135.1 | 12.1% | 16.3 | 0.070 | 0.03 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with gas water heating | 30.4% | 0.0% | 0.61 |
| 4077 | ENERGY STAR Dehumidifiers | SFA | ALL | NC | 792.4 | 18.9% | 149.9 | 0.092 | 0.41 | 12 | \$20.21 | Installation of ENERGY STAR dehumidifier instead of standard efficiency unit | 43.5% | 0.0% | 3.70 |
| 4078 | ENERGY STAR Water Coolers | SFA | ALL | NC | 799.4 | 60.3% | 481.8 | 0.055 | 1.00 | 10 | \$50.00 | Installation of ENERGY STAR water cooler instead of standard efficiency unit | 1.2% | 0.0% | 3.64 |
| 4079 | ENERGY STAR Air Purifier/Cleaner | SFA | ALL | NC | 587.0 | 66.6% | 391.0 | 0.067 | 1.00 | 9 | \$70.00 | Installation of ENERGY STAR air purifier instead of standard efficiency unit | 9.9% | 0.0% | 2.11 |
| 4080 | ENERGY STAR Dryers | SFA | ALL | NC | 538.0 | 5.1% | 27.4 | 0.115 | 0.04 | 13 | \$50.00 | Installation of ENERGY STAR dryer instead of standard efficiency unit in homes with electric dryers | 65.8% | 0.0% | 0.27 |
| 4081 | Refrigerator Recycling with Replacement | MF | NLI | Retrofit | 972.2 | 40.0% | 388.9 | 0.044 | 1.00 | 7 | \$120.00 | Retirement and replacement of non-primary refrigerators in homes with more than one refrigerator; replacement unit assumed to be standard efficiency model | 34.0% | 0.0% | 0.95 |
| 4082 | Refrigerator Recycling without Replacement | MF | NLI | Retrofit | 972.2 | 100.0% | 972.2 | 0.109 | 1.00 | 8 | \$120.00 | Retirement (no replacement) of non-primary refrigerators in homes with more than one refrigerator | 34.0% | 0.0% | 2.61 |
| 4083 | Freezer Recycling with Replacement | MF | ALL | Retrofit | 1,130.6 | 54.1% | 611.5 | 0.068 | 1.00 | 7 | \$120.00 | Retirement and replacement of non-primary freezers in homes with more than one freezer; replacement unit assumed to be standard efficiency model | 6.0% | 0.0% | 1.49 |
| 4084 | Freezer Recycling without Replacement | MF | ALL | Retrofit | 1,130.6 | 100.0% | 1,130.6 | 0.127 | 1.00 | 8 | \$120.00 | Retirement (no replacement) of non-primary freezers in homes with more than one refrigerator | 6.0% | 0.0% | 3.04 |
| 4085 | ENERGY STAR Refrigerators (Top-Mount) | MF | NLI | ROB | 462.2 | 8.2% | 37.9 | 0.004 | 1.00 | 12 | \$21.83 | Installation of ENERGY STAR top-mount refrigerator instead of standard efficiency unit | 53.0% | 31.0% | 0.73 |
| 4086 | ENERGY STAR Refrigerators (Side-by-Side) | MF | NLI | ROB | 608.9 | 8.6% | 52.5 | 0.006 | 1.00 | 12 | \$57.31 | Installation of ENERGY STAR side-mount refrigerator instead of standard efficiency unit | 26.0% | 31.0% | 0.39 |
| 4087 | ENERGY STAR Refrigerators (Bottom-Mount) | MF | NLI | ROB | 644.2 | 8.7% | 55.9 | 0.006 | 1.00 | 12 | \$17.29 | Installation of ENERGY STAR bottom-mount refrigerator instead of standard efficiency unit | 12.0% | 31.0% | 1.37 |
| 4088 | ENERGY STAR Freezers (Upright) | MF | NLI | ROB | 483.2 | 9.1% | 44.0 | 0.005 | 1.00 | 12 | \$6.75 | Installation of ENERGY STAR upright freezers instead of standard efficiency unit | 27.3% | 6.0% | 2.76 |
| 4089 | ENERGY STAR Freezers (Chest) | MF | NLI | ROB | 290.1 | 10.0% | 29.0 | 0.003 | 1.00 | 12 | \$5.23 | Installation of ENERGY STAR chest freezers instead of standard efficiency unit | 24.2% | 6.0% | 2.34 |
| 4090 | ENERGY STAR Clothes Washers (Electric Water Heating) | MF | NLI | ROB | 490.9 | 34.1% | 167.4 | 0.670 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 39.4% | 20.0% | 1.35 |
| 4091 | ENERGY STAR Clothes Washers (Gas Water Heating) | MF | NLI | ROB | 244.7 | 17.4% | 42.7 | 0.171 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 52.3% | 20.0% | 0.34 |
| 4092 | ENERGY STAR Dishwashers (Electric Water Heating) | MF | ALL | ROB | 307.0 | 12.1% | 37.0 | 0.158 | 0.03 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with electric water heating | 23.0% | 40.0% | 1.39 |

Measure Assumptions - Penn Power

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|--|-----------------|---------------|-------------------|
| 4093 | ENERGY STAR Dishwashers (Gas Water Heating) | MF | ALL | ROB | 135.1 | 12.1% | 16.3 | 0.070 | 0.03 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with gas water heating | 30.4% | 40.0% | 0.61 |
| 4094 | ENERGY STAR Dehumidifiers | MF | NLI | ROB | 792.4 | 18.9% | 149.9 | 0.092 | 0.41 | 12 | \$20.21 | Installation of ENERGY STAR dehumidifier instead of standard efficiency unit | 43.5% | 83.9% | 3.70 |
| 4095 | ENERGY STAR Water Coolers | MF | ALL | ROB | 799.4 | 60.3% | 481.8 | 0.055 | 1.00 | 10 | \$50.00 | Installation of ENERGY STAR water cooler instead of standard efficiency unit | 1.2% | 68.5% | 3.64 |
| 4096 | ENERGY STAR Air Purifier/Cleaner | MF | ALL | ROB | 587.0 | 66.6% | 391.0 | 0.067 | 1.00 | 9 | \$70.00 | Installation of ENERGY STAR air purifier instead of standard efficiency unit | 9.9% | 33.3% | 2.11 |
| 4097 | ENERGY STAR Dryers | MF | ALL | ROB | 538.0 | 5.1% | 27.4 | 0.115 | 0.04 | 13 | \$50.00 | Installation of ENERGY STAR dryer instead of standard efficiency unit in homes with electric dryers | 65.8% | 25.0% | 0.27 |
| 4098 | Refrigerator Recycling with Replacement | MF | LI | Retrofit | 972.2 | 40.0% | 388.9 | 0.044 | 1.00 | 7 | \$120.00 | Retirement and replacement of non-primary refrigerators in homes with more than one refrigerator; replacement unit assumed to be standard efficiency model | 34.0% | 0.0% | 0.95 |
| 4099 | Refrigerator Recycling without Replacement | MF | LI | Retrofit | 972.2 | 100.0% | 972.2 | 0.109 | 1.00 | 8 | \$120.00 | Retirement (no replacement) of non-primary refrigerators in homes with more than one refrigerator | 34.0% | 0.0% | 2.61 |
| 4100 | ENERGY STAR Refrigerators (Top-Mount) | MF | LI | ROB | 462.2 | 8.2% | 37.9 | 0.004 | 1.00 | 12 | \$21.83 | Installation of ENERGY STAR top-mount refrigerator instead of standard efficiency unit | 53.0% | 31.0% | 0.73 |
| 4101 | ENERGY STAR Refrigerators (Side-by-Side) | MF | LI | ROB | 608.9 | 8.6% | 52.5 | 0.006 | 1.00 | 12 | \$57.31 | Installation of ENERGY STAR side-mount refrigerator instead of standard efficiency unit | 26.0% | 31.0% | 0.39 |
| 4102 | ENERGY STAR Refrigerators (Bottom-Mount) | MF | LI | ROB | 644.2 | 8.7% | 55.9 | 0.006 | 1.00 | 12 | \$17.29 | Installation of ENERGY STAR bottom-mount refrigerator instead of standard efficiency unit | 12.0% | 31.0% | 1.37 |
| 4103 | ENERGY STAR Freezers (Upright) | MF | LI | ROB | 483.2 | 9.1% | 44.0 | 0.005 | 1.00 | 12 | \$6.75 | Installation of ENERGY STAR upright freezers instead of standard efficiency unit | 27.3% | 6.0% | 2.76 |
| 4104 | ENERGY STAR Freezers (Chest) | MF | LI | ROB | 290.1 | 10.0% | 29.0 | 0.003 | 1.00 | 12 | \$5.23 | Installation of ENERGY STAR chest freezers instead of standard efficiency unit | 24.2% | 6.0% | 2.34 |
| 4105 | ENERGY STAR Clothes Washers (Electric Water Heating) | MF | LI | ROB | 490.9 | 34.1% | 167.4 | 0.670 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 39.4% | 20.0% | 1.35 |
| 4106 | ENERGY STAR Clothes Washers (Gas Water Heating) | MF | LI | ROB | 244.7 | 17.4% | 42.7 | 0.171 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 52.3% | 20.0% | 0.34 |
| 4107 | ENERGY STAR Dehumidifiers | MF | LI | ROB | 792.4 | 18.9% | 149.9 | 0.092 | 0.41 | 12 | \$20.21 | Installation of ENERGY STAR dehumidifier instead of standard efficiency unit | 43.5% | 83.9% | 3.70 |
| 4108 | ENERGY STAR Refrigerators (Top-Mount) | MF | ALL | NC | 462.2 | 8.2% | 37.9 | 0.004 | 1.00 | 12 | \$21.83 | Installation of ENERGY STAR top-mount refrigerator instead of standard efficiency unit | 53.0% | 0.0% | 0.73 |
| 4109 | ENERGY STAR Refrigerators (Side-by-Side) | MF | ALL | NC | 608.9 | 8.6% | 52.5 | 0.006 | 1.00 | 12 | \$57.31 | Installation of ENERGY STAR side-mount refrigerator instead of standard efficiency unit | 26.0% | 0.0% | 0.39 |
| 4110 | ENERGY STAR Refrigerators (Bottom-Mount) | MF | ALL | NC | 644.2 | 8.7% | 55.9 | 0.006 | 1.00 | 12 | \$17.29 | Installation of ENERGY STAR bottom-mount refrigerator instead of standard efficiency unit | 12.0% | 0.0% | 1.37 |
| 4111 | ENERGY STAR Freezers (Upright) | MF | ALL | NC | 483.2 | 9.1% | 44.0 | 0.005 | 1.00 | 12 | \$6.75 | Installation of ENERGY STAR upright freezers instead of standard efficiency unit | 27.3% | 0.0% | 2.76 |
| 4112 | ENERGY STAR Freezers (Chest) | MF | ALL | NC | 290.1 | 10.0% | 29.0 | 0.003 | 1.00 | 12 | \$5.23 | Installation of ENERGY STAR chest freezers instead of standard efficiency unit | 24.2% | 0.0% | 2.34 |
| 4113 | ENERGY STAR Clothes Washers (Electric Water Heating) | MF | ALL | NC | 490.9 | 34.1% | 167.4 | 0.670 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 39.4% | 0.0% | 1.35 |
| 4114 | ENERGY STAR Clothes Washers (Gas Water Heating) | MF | ALL | NC | 244.7 | 17.4% | 42.7 | 0.171 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 52.3% | 0.0% | 0.34 |
| 4115 | ENERGY STAR Dishwashers (Electric Water Heating) | MF | ALL | NC | 307.0 | 12.1% | 37.0 | 0.158 | 0.03 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with electric water heating | 23.0% | 0.0% | 1.39 |
| 4116 | ENERGY STAR Dishwashers (Gas Water Heating) | MF | ALL | NC | 135.1 | 12.1% | 16.3 | 0.070 | 0.03 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with gas water heating | 30.4% | 0.0% | 0.61 |
| 4117 | ENERGY STAR Dehumidifiers | MF | ALL | NC | 792.4 | 18.9% | 149.9 | 0.092 | 0.41 | 12 | \$20.21 | Installation of ENERGY STAR dehumidifier instead of standard efficiency unit | 43.5% | 0.0% | 3.70 |
| 4118 | ENERGY STAR Water Coolers | MF | ALL | NC | 799.4 | 60.3% | 481.8 | 0.055 | 1.00 | 10 | \$50.00 | Installation of ENERGY STAR water cooler instead of standard efficiency unit | 1.2% | 0.0% | 3.64 |
| 4119 | ENERGY STAR Air Purifier/Cleaner | MF | ALL | NC | 587.0 | 66.6% | 391.0 | 0.067 | 1.00 | 9 | \$70.00 | Installation of ENERGY STAR air purifier instead of standard efficiency unit | 9.9% | 0.0% | 2.11 |
| 4120 | ENERGY STAR Dryers | MF | ALL | NC | 538.0 | 5.1% | 27.4 | 0.115 | 0.04 | 13 | \$50.00 | Installation of ENERGY STAR dryer instead of standard efficiency unit in homes with electric dryers | 65.8% | 0.0% | 0.27 |
| 5000 | Consumer Electronics | | | | | | | | | | | | | | |
| 5001 | Smart Strip Plug Outlets - Home Office | SFD | NLI | Retrofit | 48.9 | 100.0% | 48.9 | 0.007 | 0.83 | 10 | \$32.97 | Smart strip plug outlet for home office centers | 65.3% | 3.8% | 0.56 |
| 5002 | Smart Strip Plug Outlets - Entertainment Center | SFD | NLI | Retrofit | 62.1 | 100.0% | 62.1 | 0.009 | 0.90 | 10 | \$32.97 | Smart strip plug outlet for home entertainment centers | 163.3% | 10.9% | 0.72 |
| 5003 | ENERGY STAR Televisions > 50" | SFD | ALL | ROB | 197.1 | 49.3% | 97.1 | 0.053 | 0.17 | 6 | \$1.00 | Installation of high efficiency > 50" diameter television instead of a standard efficiency unit | 63.9% | 86.0% | 24.74 |
| 5004 | ENERGY STAR Televisions < 50" | SFD | ALL | ROB | 96.2 | 49.2% | 47.4 | 0.026 | 0.17 | 6 | \$1.00 | Installation of high efficiency < 50" diameter television instead of a standard efficiency unit | 149.2% | 86.0% | 12.07 |
| 5005 | ENERGY STAR Computer - Desktop | SFD | ALL | ROB | 165.6 | 42.7% | 70.7 | 0.022 | 0.76 | 4 | \$8.00 | Installation of high efficiency desktop computer instead of a standard efficiency unit | 61.0% | 27.5% | 1.92 |

Measure Assumptions - Penn Power

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|---|--------------------------|---------------|-------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|---|-----------------|---------------|-------------------|
| 5006 | ENERGY STAR Computer - Laptop | SFD | ALL | ROB | 52.8 | 40.8% | 21.5 | 0.007 | 0.76 | 4 | \$1.00 | Installation of high efficiency laptop computer instead of a standard efficiency unit | 81.0% | 75.5% | 4.70 |
| 5007 | ENERGY STAR Fax Machine | SFD | ALL | ROB | 52.1 | 30.0% | 15.6 | 0.002 | 1.00 | 4 | \$1.00 | Installation of high efficiency fax machine instead of a standard efficiency unit | 3.0% | 6.5% | 3.03 |
| 5008 | ENERGY STAR Copier | SFD | ALL | ROB | 182.5 | 25.7% | 46.9 | 0.022 | 0.28 | 6 | \$1.00 | Installation of high efficiency copier instead of a standard efficiency unit | 4.2% | 77.8% | 12.61 |
| 5009 | ENERGY STAR Printer | SFD | ALL | ROB | 43.8 | 55.0% | 24.1 | 0.006 | 0.59 | 5 | \$1.00 | Installation of high efficiency printer instead of a standard efficiency unit | 29.4% | 95.0% | 5.60 |
| 5010 | ENERGY STAR Multifunction | SFD | ALL | ROB | 70.1 | 66.3% | 46.4 | 0.011 | 0.59 | 6 | \$1.00 | Installation of high efficiency multifunction device instead of a standard efficiency unit | 53.2% | 95.0% | 12.48 |
| 5011 | ENERGY STAR Monitors | SFD | ALL | ROB | 73.6 | 32.4% | 23.8 | 0.013 | 0.26 | 4 | \$1.80 | Installation of high efficiency monitors instead of a standard efficiency unit | 61.0% | 73.3% | 2.56 |
| 5012 | Smart Strip Plug Outlets - Home Office | SFD | LI | Retrofit | 48.9 | 100.0% | 48.9 | 0.007 | 0.83 | 10 | \$32.97 | Smart strip plug outlet for home office centers | 65.3% | 3.8% | 0.56 |
| 5013 | Smart Strip Plug Outlets - Entertainment Center | SFD | LI | Retrofit | 62.1 | 100.0% | 62.1 | 0.009 | 0.90 | 10 | \$32.97 | Smart strip plug outlet for home entertainment centers | 163.3% | 10.9% | 0.72 |
| 5014 | Smart Strip Plug Outlets - Home Office | SFD | ALL | NC | 48.9 | 100.0% | 48.9 | 0.007 | 0.83 | 10 | \$32.97 | Smart strip plug outlet for home office centers | 65.3% | 0.0% | 0.56 |
| 5015 | Smart Strip Plug Outlets - Entertainment Center | SFD | ALL | NC | 62.1 | 100.0% | 62.1 | 0.009 | 0.90 | 10 | \$32.97 | Smart strip plug outlet for home entertainment centers | 163.3% | 0.0% | 0.72 |
| 5016 | ENERGY STAR Televisions > 50" | SFD | ALL | NC | 197.1 | 49.3% | 97.1 | 0.053 | 0.17 | 6 | \$1.00 | Installation of high efficiency > 50" diameter television instead of a standard efficiency unit | 63.9% | 0.0% | 24.74 |
| 5017 | ENERGY STAR Televisions < 50" | SFD | ALL | NC | 96.2 | 49.2% | 47.4 | 0.026 | 0.17 | 6 | \$1.00 | Installation of high efficiency < 50" diameter television instead of a standard efficiency unit | 149.2% | 0.0% | 12.07 |
| 5018 | ENERGY STAR Computer - Desktop | SFD | ALL | NC | 165.6 | 42.7% | 70.7 | 0.022 | 0.76 | 4 | \$8.00 | Installation of high efficiency desktop computer instead of a standard efficiency unit | 61.0% | 0.0% | 1.92 |
| 5019 | ENERGY STAR Computer - Laptop | SFD | ALL | NC | 52.8 | 40.8% | 21.5 | 0.007 | 0.76 | 4 | \$1.00 | Installation of high efficiency laptop computer instead of a standard efficiency unit | 81.0% | 0.0% | 4.70 |
| 5020 | ENERGY STAR Fax Machine | SFD | ALL | NC | 52.1 | 30.0% | 15.6 | 0.002 | 1.00 | 4 | \$1.00 | Installation of high efficiency fax machine instead of a standard efficiency unit | 3.0% | 0.0% | 3.03 |
| 5021 | ENERGY STAR Copier | SFD | ALL | NC | 182.5 | 25.7% | 46.9 | 0.022 | 0.28 | 6 | \$1.00 | Installation of high efficiency copier instead of a standard efficiency unit | 4.2% | 0.0% | 12.61 |
| 5022 | ENERGY STAR Printer | SFD | ALL | NC | 43.8 | 55.0% | 24.1 | 0.006 | 0.59 | 5 | \$1.00 | Installation of high efficiency printer instead of a standard efficiency unit | 29.4% | 0.0% | 5.60 |
| 5023 | ENERGY STAR Multifunction | SFD | ALL | NC | 70.1 | 66.3% | 46.4 | 0.011 | 0.59 | 6 | \$1.00 | Installation of high efficiency multifunction device instead of a standard efficiency unit | 53.2% | 0.0% | 12.48 |
| 5024 | ENERGY STAR Monitors | SFD | ALL | NC | 73.6 | 32.4% | 23.8 | 0.013 | 0.26 | 4 | \$1.80 | Installation of high efficiency monitors instead of a standard efficiency unit | 61.0% | 0.0% | 2.56 |
| 5025 | Smart Strip Plug Outlets - Home Office | SFA | NLI | Retrofit | 48.9 | 100.0% | 48.9 | 0.007 | 0.83 | 10 | \$32.97 | Smart strip plug outlet for home office centers | 65.3% | 3.8% | 0.56 |
| 5026 | Smart Strip Plug Outlets - Entertainment Center | SFA | NLI | Retrofit | 62.1 | 100.0% | 62.1 | 0.009 | 0.90 | 10 | \$32.97 | Smart strip plug outlet for home entertainment centers | 144.1% | 10.9% | 0.72 |
| 5027 | ENERGY STAR Televisions > 50" | SFA | ALL | ROB | 197.1 | 49.1% | 96.9 | 0.053 | 0.17 | 6 | \$1.00 | Installation of high efficiency > 50" diameter television instead of a standard efficiency unit | 56.4% | 86.0% | 24.68 |
| 5028 | ENERGY STAR Televisions < 50" | SFA | ALL | ROB | 98.1 | 49.3% | 48.4 | 0.027 | 0.17 | 6 | \$1.00 | Installation of high efficiency < 50" diameter television instead of a standard efficiency unit | 131.6% | 86.0% | 12.33 |
| 5029 | ENERGY STAR Computer - Desktop | SFA | ALL | ROB | 165.6 | 42.7% | 70.7 | 0.022 | 0.76 | 4 | \$8.00 | Installation of high efficiency desktop computer instead of a standard efficiency unit | 61.0% | 27.5% | 1.92 |
| 5030 | ENERGY STAR Computer - Laptop | SFA | ALL | ROB | 52.8 | 40.8% | 21.5 | 0.007 | 0.76 | 4 | \$1.00 | Installation of high efficiency laptop computer instead of a standard efficiency unit | 81.0% | 75.5% | 4.70 |
| 5031 | ENERGY STAR Fax Machine | SFA | ALL | ROB | 52.1 | 30.0% | 15.6 | 0.002 | 1.00 | 4 | \$1.00 | Installation of high efficiency fax machine instead of a standard efficiency unit | 3.0% | 6.5% | 3.03 |
| 5032 | ENERGY STAR Copier | SFA | ALL | ROB | 182.5 | 25.7% | 46.9 | 0.022 | 0.28 | 6 | \$1.00 | Installation of high efficiency copier instead of a standard efficiency unit | 1.7% | 77.8% | 12.61 |
| 5033 | ENERGY STAR Printer | SFA | ALL | ROB | 43.8 | 55.0% | 24.1 | 0.006 | 0.59 | 5 | \$1.00 | Installation of high efficiency printer instead of a standard efficiency unit | 29.0% | 95.0% | 5.60 |
| 5034 | ENERGY STAR Multifunction | SFA | ALL | ROB | 70.1 | 66.3% | 46.4 | 0.011 | 0.59 | 6 | \$1.00 | Installation of high efficiency multifunction device instead of a standard efficiency unit | 45.0% | 95.0% | 12.48 |
| 5035 | ENERGY STAR Monitors | SFA | ALL | ROB | 73.6 | 32.4% | 23.8 | 0.013 | 0.26 | 4 | \$1.80 | Installation of high efficiency monitors instead of a standard efficiency unit | 61.0% | 73.3% | 2.56 |
| 5036 | Smart Strip Plug Outlets - Home Office | SFA | LI | Retrofit | 48.9 | 100.0% | 48.9 | 0.007 | 0.83 | 10 | \$32.97 | Smart strip plug outlet for home office centers | 65.3% | 3.8% | 0.56 |
| 5037 | Smart Strip Plug Outlets - Entertainment Center | SFA | LI | Retrofit | 62.1 | 100.0% | 62.1 | 0.009 | 0.90 | 10 | \$32.97 | Smart strip plug outlet for home entertainment centers | 144.1% | 10.9% | 0.72 |
| 5038 | Smart Strip Plug Outlets - Home Office | SFA | ALL | NC | 48.9 | 100.0% | 48.9 | 0.007 | 0.83 | 10 | \$32.97 | Smart strip plug outlet for home office centers | 65.3% | 0.0% | 0.56 |
| 5039 | Smart Strip Plug Outlets - Entertainment Center | SFA | ALL | NC | 62.1 | 100.0% | 62.1 | 0.009 | 0.90 | 10 | \$32.97 | Smart strip plug outlet for home entertainment centers | 144.1% | 0.0% | 0.72 |
| 5040 | ENERGY STAR Televisions > 50" | SFA | ALL | NC | 197.1 | 49.1% | 96.9 | 0.053 | 0.17 | 6 | \$1.00 | Installation of high efficiency > 50" diameter television instead of a standard efficiency unit | 56.4% | 0.0% | 24.68 |
| 5041 | ENERGY STAR Televisions < 50" | SFA | ALL | NC | 98.1 | 49.3% | 48.4 | 0.027 | 0.17 | 6 | \$1.00 | Installation of high efficiency < 50" diameter television instead of a standard efficiency unit | 131.6% | 0.0% | 12.33 |
| 5042 | ENERGY STAR Computer - Desktop | SFA | ALL | NC | 165.6 | 42.7% | 70.7 | 0.022 | 0.76 | 4 | \$8.00 | Installation of high efficiency desktop computer instead of a standard efficiency unit | 61.0% | 0.0% | 1.92 |
| 5043 | ENERGY STAR Computer - Laptop | SFA | ALL | NC | 52.8 | 40.8% | 21.5 | 0.007 | 0.76 | 4 | \$1.00 | Installation of high efficiency laptop computer instead of a standard efficiency unit | 81.0% | 0.0% | 4.70 |
| 5044 | ENERGY STAR Fax Machine | SFA | ALL | NC | 52.1 | 30.0% | 15.6 | 0.002 | 1.00 | 4 | \$1.00 | Installation of high efficiency fax machine instead of a standard efficiency unit | 3.0% | 0.0% | 3.03 |
| 5045 | ENERGY STAR Copier | SFA | ALL | NC | 182.5 | 25.7% | 46.9 | 0.022 | 0.28 | 6 | \$1.00 | Installation of high efficiency copier instead of a standard efficiency unit | 1.7% | 0.0% | 12.61 |

Measure Assumptions - Penn Power

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|---|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|--|-----------------|---------------|-------------------|
| 5046 | ENERGY STAR Printer | SFA | ALL | NC | 43.8 | 55.0% | 24.1 | 0.006 | 0.59 | 5 | \$1.00 | Installation of high efficiency printer instead of a standard efficiency unit | 29.0% | 0.0% | 5.60 |
| 5047 | ENERGY STAR Multifunction | SFA | ALL | NC | 70.1 | 66.3% | 46.4 | 0.011 | 0.59 | 6 | \$1.00 | Installation of high efficiency multifunction device instead of a standard efficiency unit | 45.0% | 0.0% | 12.48 |
| 5048 | ENERGY STAR Monitors | SFA | ALL | NC | 73.6 | 32.4% | 23.8 | 0.013 | 0.26 | 4 | \$1.80 | Installation of high efficiency monitors instead of a standard efficiency unit | 61.0% | 0.0% | 2.56 |
| 5049 | Smart Strip Plug Outlets - Home Office | MF | NLI | Retrofit | 48.9 | 100.0% | 48.9 | 0.007 | 0.83 | 10 | \$32.97 | Smart strip plug outlet for home office centers | 65.3% | 3.8% | 0.56 |
| 5050 | Smart Strip Plug Outlets - Entertainment Center | MF | NLI | Retrofit | 62.1 | 100.0% | 62.1 | 0.009 | 0.90 | 10 | \$32.97 | Smart strip plug outlet for home entertainment centers | 107.8% | 10.9% | 0.72 |
| 5051 | ENERGY STAR Televisions > 50" | MF | ALL | ROB | 197.1 | 50.0% | 98.6 | 0.054 | 0.17 | 6 | \$1.00 | Installation of high efficiency > 50" diameter television instead of a standard efficiency unit | 42.2% | 86.0% | 25.11 |
| 5052 | ENERGY STAR Televisions < 50" | MF | ALL | ROB | 89.1 | 48.7% | 43.4 | 0.024 | 0.17 | 6 | \$1.00 | Installation of high efficiency < 50" diameter television instead of a standard efficiency unit | 98.5% | 86.0% | 11.05 |
| 5053 | ENERGY STAR Computer - Desktop | MF | ALL | ROB | 165.6 | 42.7% | 70.7 | 0.022 | 0.76 | 4 | \$8.00 | Installation of high efficiency desktop computer instead of a standard efficiency unit | 61.0% | 27.5% | 1.92 |
| 5054 | ENERGY STAR Computer - Laptop | MF | ALL | ROB | 52.8 | 40.8% | 21.5 | 0.007 | 0.76 | 4 | \$1.00 | Installation of high efficiency laptop computer instead of a standard efficiency unit | 81.0% | 75.5% | 4.70 |
| 5055 | ENERGY STAR Fax Machine | MF | ALL | ROB | 52.1 | 30.0% | 15.6 | 0.002 | 1.00 | 4 | \$1.00 | Installation of high efficiency fax machine instead of a standard efficiency unit | 3.0% | 6.5% | 3.03 |
| 5056 | ENERGY STAR Copier | MF | ALL | ROB | 182.5 | 25.7% | 46.9 | 0.022 | 0.28 | 6 | \$1.00 | Installation of high efficiency copier instead of a standard efficiency unit | 1.1% | 77.8% | 12.61 |
| 5057 | ENERGY STAR Printer | MF | ALL | ROB | 43.8 | 55.0% | 24.1 | 0.006 | 0.59 | 5 | \$1.00 | Installation of high efficiency printer instead of a standard efficiency unit | 12.6% | 95.0% | 5.60 |
| 5058 | ENERGY STAR Multifunction | MF | ALL | ROB | 70.1 | 66.3% | 46.4 | 0.011 | 0.59 | 6 | \$1.00 | Installation of high efficiency multifunction device instead of a standard efficiency unit | 30.3% | 95.0% | 12.48 |
| 5059 | ENERGY STAR Monitors | MF | ALL | ROB | 73.6 | 32.4% | 23.8 | 0.013 | 0.26 | 4 | \$1.80 | Installation of high efficiency monitors instead of a standard efficiency unit | 61.0% | 73.3% | 2.56 |
| 5060 | Smart Strip Plug Outlets - Home Office | MF | LI | Retrofit | 48.9 | 100.0% | 48.9 | 0.007 | 0.83 | 10 | \$32.97 | Smart strip plug outlet for home office centers | 65.3% | 3.8% | 0.56 |
| 5061 | Smart Strip Plug Outlets - Entertainment Center | MF | LI | Retrofit | 62.1 | 100.0% | 62.1 | 0.009 | 0.90 | 10 | \$32.97 | Smart strip plug outlet for home entertainment centers | 107.8% | 10.9% | 0.72 |
| 5062 | Smart Strip Plug Outlets - Home Office | MF | ALL | NC | 48.9 | 100.0% | 48.9 | 0.007 | 0.83 | 10 | \$32.97 | Smart strip plug outlet for home office centers | 65.3% | 0.0% | 0.56 |
| 5063 | Smart Strip Plug Outlets - Entertainment Center | MF | ALL | NC | 62.1 | 100.0% | 62.1 | 0.009 | 0.90 | 10 | \$32.97 | Smart strip plug outlet for home entertainment centers | 107.8% | 0.0% | 0.72 |
| 5064 | ENERGY STAR Televisions > 50" | MF | ALL | NC | 197.1 | 50.0% | 98.6 | 0.054 | 0.17 | 6 | \$1.00 | Installation of high efficiency > 50" diameter television instead of a standard efficiency unit | 42.2% | 0.0% | 25.11 |
| 5065 | ENERGY STAR Televisions < 50" | MF | ALL | NC | 89.1 | 48.7% | 43.4 | 0.024 | 0.17 | 6 | \$1.00 | Installation of high efficiency < 50" diameter television instead of a standard efficiency unit | 98.5% | 0.0% | 11.05 |
| 5066 | ENERGY STAR Computer - Desktop | MF | ALL | NC | 165.6 | 42.7% | 70.7 | 0.022 | 0.76 | 4 | \$8.00 | Installation of high efficiency desktop computer instead of a standard efficiency unit | 61.0% | 0.0% | 1.92 |
| 5067 | ENERGY STAR Computer - Laptop | MF | ALL | NC | 52.8 | 40.8% | 21.5 | 0.007 | 0.76 | 4 | \$1.00 | Installation of high efficiency laptop computer instead of a standard efficiency unit | 81.0% | 0.0% | 4.70 |
| 5068 | ENERGY STAR Fax Machine | MF | ALL | NC | 52.1 | 30.0% | 15.6 | 0.002 | 1.00 | 4 | \$1.00 | Installation of high efficiency fax machine instead of a standard efficiency unit | 3.0% | 0.0% | 3.03 |
| 5069 | ENERGY STAR Copier | MF | ALL | NC | 182.5 | 25.7% | 46.9 | 0.022 | 0.28 | 6 | \$1.00 | Installation of high efficiency copier instead of a standard efficiency unit | 1.1% | 0.0% | 12.61 |
| 5070 | ENERGY STAR Printer | MF | ALL | NC | 43.8 | 55.0% | 24.1 | 0.006 | 0.59 | 5 | \$1.00 | Installation of high efficiency printer instead of a standard efficiency unit | 12.6% | 0.0% | 5.60 |
| 5071 | ENERGY STAR Multifunction | MF | ALL | NC | 70.1 | 66.3% | 46.4 | 0.011 | 0.59 | 6 | \$1.00 | Installation of high efficiency multifunction device instead of a standard efficiency unit | 30.3% | 0.0% | 12.48 |
| 5072 | ENERGY STAR Monitors | MF | ALL | NC | 73.6 | 32.4% | 23.8 | 0.013 | 0.26 | 4 | \$1.80 | Installation of high efficiency monitors instead of a standard efficiency unit | 61.0% | 0.0% | 2.56 |
| 6000 | Building Shell | | | | | | | | | | | | | | |
| 6001 | Ceiling Insulation: R-20 to R-60 | SFD | NLI | Retrofit | 7,292.0 | 6.1% | 443.0 | 0.089 | 0.65 | 25 | \$2,724.04 | Addition of R-20 ceiling insulation in adequately insulated homes with heat pumps | 6.5% | 81.2% | 0.08 |
| 6002 | Ceiling Insulation: R-8 to R-38 | SFD | NLI | Retrofit | 8,147.0 | 14.3% | 1,169.0 | 0.240 | 0.65 | 25 | \$1,879.96 | Addition of R-8 ceiling insulation in poorly insulated homes with heat pumps | 6.5% | 96.0% | 0.31 |
| 6003 | Exterior Wall Insulation: R-0 to R-13 | SFD | NLI | Retrofit | 13,457.0 | 46.6% | 6,273.0 | 0.816 | 0.65 | 25 | \$3,069.52 | Addition of exterior wall insulation in poorly homes with heat pumps | 6.5% | 84.0% | 0.96 |
| 6004 | Exterior Wall Insulation: R-0 to R-19 | SFD | NLI | Retrofit | 13,457.0 | 52.2% | 7,029.0 | 0.987 | 0.65 | 25 | \$3,899.12 | Addition of exterior wall insulation in poorly homes with heat pumps | 6.5% | 84.0% | 0.85 |
| 6005 | Floor Insulation: R-0 to R-19 | SFD | NLI | Retrofit | 8,696.0 | 2.9% | 249.0 | -0.213 | 0.65 | 25 | \$2,035.00 | Addition of floor insulation in homes with unconditioned basements or crawl spaces and heat pumps | 0.7% | 49.0% | 0.01 |
| 6006 | Basement Wall Insulation: R-0 to R-13 | SFD | NLI | Retrofit | 6,793.0 | 8.4% | 573.0 | -0.025 | 0.65 | 25 | \$2,713.60 | Addition of basement wall insulation in homes with poorly insulated conditioned basements and heat pumps | 0.4% | 49.0% | 0.08 |
| 6007 | Air Sealing: 13 ACH50 to 9 ACH50 | SFD | NLI | Retrofit | 8,692.0 | 16.1% | 1,400.0 | 0.033 | 0.65 | 15 | \$968.00 | Air sealing in poorly sealed homes with heat pumps | 6.5% | 82.0% | 0.62 |
| 6008 | Air Sealing: 9 ACH50 to 7 ACH50 | SFD | NLI | Retrofit | 7,292.0 | 9.0% | 655.0 | 0.019 | 0.65 | 15 | \$968.00 | Air sealing in adequately sealed homes with heat pumps | 6.5% | 74.0% | 0.29 |
| 6009 | Duct Sealing: 38.5% to 25% (CFM @25Pa) | SFD | NLI | Retrofit | 7,520.0 | 3.0% | 228.0 | 0.027 | 0.65 | 20 | \$744.00 | Duct sealing in homes with poorly sealed ducts and heat pumps | 6.5% | 65.0% | 0.14 |
| 6010 | Duct Sealing: 25% to 16.25% (CFM @25Pa) | SFD | NLI | Retrofit | 7,292.0 | 2.1% | 153.0 | 0.022 | 0.65 | 20 | \$744.00 | Duct sealing in homes with adequately sealed ducts and heat pumps | 6.5% | 45.0% | 0.10 |
| 6011 | Duct Insulation (R-0 to R-8) | SFD | NLI | Retrofit | 7,483.0 | 3.1% | 230.0 | 0.009 | 0.65 | 20 | \$862.40 | Installation of duct insulation in homes with poorly insulated ducts and heat pumps | 6.5% | 29.0% | 0.12 |

Measure Assumptions - Penn Power

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|--|-----------------|---------------|-------------------|
| 6012 | Window Film (U=0.51, SHGC=0.24) | SFD | NLI | Retrofit | 8,788.0 | 12.6% | 1,110.0 | 0.806 | 0.65 | 10 | \$2,760.00 | Installation of window film on single-pane windows in homes with heat pumps | 6.5% | 82.0% | 0.22 |
| 6013 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFD | NLI | Retrofit | 7,292.0 | 5.6% | 410.0 | 0.297 | 0.65 | 20 | \$5,236.11 | Installation of ENERGY STAR windows to replace single-pane windows in homes with heat pumps | 6.5% | 82.0% | 0.06 |
| 6014 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFD | ALL | ROB | 7,292.0 | 5.6% | 410.0 | 0.297 | 0.65 | 20 | \$211.88 | Installation of ENERGY STAR windows instead of double-pane windows in homes with heat pumps | 6.5% | 48.0% | 1.36 |
| 6015 | Radiant Barrier | SFD | ALL | Retrofit | 7,292.0 | 1.0% | 72.0 | 0.054 | 0.65 | 25 | \$1,087.84 | Installation of radiant barriers in homes with heat pumps | 6.5% | 10.0% | 0.05 |
| 6016 | Low Income Weatherization Package | SFD | LI | Retrofit | 9,261.0 | 27.5% | 2,549.0 | 0.185 | 0.65 | 20 | \$6,950.06 | Installation of package of weatherization measures in homes with heat pumps | 6.5% | 81.2% | 0.16 |
| 6017 | Window Film (U=0.51, SHGC=0.24) | SFD | LI | Retrofit | 8,788.0 | 12.6% | 1,110.0 | 0.806 | 0.65 | 10 | \$2,760.00 | Installation of ENERGY STAR windows to replace single-pane windows in homes with heat pumps | 6.5% | 82.0% | 0.22 |
| 6018 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFD | LI | Retrofit | 7,292.0 | 5.6% | 410.0 | 0.297 | 0.65 | 20 | \$5,236.11 | Installation of ENERGY STAR windows instead of double-pane windows in homes with heat pumps | 6.5% | 82.0% | 0.06 |
| 6019 | Residential New Construction Tier 1 (15% more efficient) | SFD | ALL | NC | 6,405.0 | 28.3% | 1,814.0 | 0.053 | 0.65 | 20 | \$2,561.00 | New home built 15% more efficient than code - in homes with heat pumps | 16.6% | 0.0% | 0.31 |
| 6020 | Residential New Construction Tier 2 (30% more efficient) | SFD | ALL | NC | 6,405.0 | 32.6% | 2,088.0 | 0.129 | 0.65 | 20 | \$3,742.54 | New home built 30% more efficient than code - in homes with heat pumps | 16.6% | 0.0% | 0.25 |
| 6021 | Ceiling Insulation: R-20 to R-60 | SFD | NLI | Retrofit | 15,960.0 | 6.0% | 954.0 | 0.104 | 0.65 | 25 | \$2,724.04 | Addition of R-20 ceiling insulation in adequately insulated homes with non-heat pump electric heating | 10.1% | 81.2% | 0.16 |
| 6022 | Ceiling Insulation: R-8 to R-38 | SFD | NLI | Retrofit | 17,768.0 | 14.0% | 2,486.0 | 0.291 | 0.65 | 25 | \$1,879.96 | Addition of R-8 ceiling insulation in poorly insulated homes with non-heat pump electric heating | 10.1% | 96.0% | 0.61 |
| 6023 | Exterior Wall Insulation: R-0 to R-13 | SFD | NLI | Retrofit | 28,124.0 | 44.1% | 12,400.0 | 0.958 | 0.65 | 25 | \$3,069.52 | Addition of exterior wall insulation in poorly homes with non-heat pump electric heating | 10.1% | 84.0% | 1.82 |
| 6024 | Exterior Wall Insulation: R-0 to R-19 | SFD | NLI | Retrofit | 28,124.0 | 50.0% | 14,059.0 | 1.158 | 0.65 | 25 | \$3,899.12 | Addition of exterior wall insulation in poorly homes with non-heat pump electric heating | 10.1% | 84.0% | 1.63 |
| 6025 | Floor Insulation: R-0 to R-19 | SFD | NLI | Retrofit | 19,156.0 | 5.3% | 1,006.0 | -0.257 | 0.65 | 25 | \$2,035.00 | Addition of floor insulation in homes with unconditioned basements or crawl spaces and non-heat pump electric heating | 1.1% | 49.0% | 0.16 |
| 6026 | Basement Wall Insulation: R-0 to R-13 | SFD | NLI | Retrofit | 15,060.0 | 9.3% | 1,406.0 | -0.035 | 0.65 | 25 | \$2,713.60 | Addition of basement wall insulation in homes with poorly insulated conditioned basements and non-heat pump electric heating | 0.6% | 49.0% | 0.21 |
| 6027 | Air Sealing: 13 ACH50 to 9 ACH50 | SFD | NLI | Retrofit | 18,826.0 | 15.2% | 2,866.0 | 0.049 | 0.65 | 15 | \$968.00 | Air sealing in poorly sealed homes with non-heat pump electric heating | 10.1% | 82.0% | 1.26 |
| 6028 | Air Sealing: 9 ACH50 to 7 ACH50 | SFD | NLI | Retrofit | 15,960.0 | 8.9% | 1,416.0 | 0.025 | 0.65 | 15 | \$968.00 | Air sealing in adequately sealed homes with non-heat pump electric heating | 10.1% | 74.0% | 0.62 |
| 6029 | Duct Sealing: 38.5% to 25% (CFM @25Pa) | SFD | NLI | Retrofit | 16,454.0 | 3.0% | 494.0 | 0.042 | 0.65 | 20 | \$744.00 | Duct sealing in homes with poorly sealed ducts and electric furnaces | 4.2% | 61.0% | 0.30 |
| 6030 | Duct Sealing: 25% to 16.25% (CFM @25Pa) | SFD | NLI | Retrofit | 15,960.0 | 2.1% | 334.0 | 0.024 | 0.65 | 20 | \$744.00 | Duct sealing in homes with adequately sealed ducts and electric furnaces | 4.2% | 45.0% | 0.20 |
| 6031 | Duct Insulation (R-0 to R-8) | SFD | NLI | Retrofit | 16,376.0 | 3.0% | 498.0 | 0.009 | 0.65 | 20 | \$862.40 | Installation of duct insulation in homes with poorly insulated ducts and electric furnaces | 4.2% | 29.0% | 0.25 |
| 6032 | Window Film (U=0.51, SHGC=0.24) | SFD | NLI | Retrofit | 19,017.0 | 9.2% | 1,747.0 | 0.982 | 0.65 | 10 | \$2,760.00 | Installation of window film on single-pane windows in homes with non-heat pump electric heating | 10.1% | 82.0% | 0.31 |
| 6033 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFD | NLI | Retrofit | 15,960.0 | 4.4% | 696.0 | 0.355 | 0.65 | 20 | \$5,236.11 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-heat pump electric heating | 10.1% | 82.0% | 0.08 |
| 6034 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFD | ALL | ROB | 15,960.0 | 4.4% | 696.0 | 0.355 | 0.65 | 20 | \$211.88 | Installation of ENERGY STAR windows instead of double-pane windows in homes with non-heat pump electric heating | 10.1% | 48.0% | 2.03 |
| 6035 | Radiant Barrier | SFD | ALL | Retrofit | 15,960.0 | 0.8% | 126.0 | 0.064 | 0.65 | 25 | \$1,087.84 | Installation of radiant barriers in homes with non-heat pump electric heating | 10.1% | 10.0% | 0.07 |
| 6036 | Low Income Weatherization Package | SFD | LI | Retrofit | 20,097.0 | 27.1% | 5,451.0 | 0.220 | 0.65 | 20 | \$6,950.06 | Installation of package of weatherization measures in homes with non-heat pump electric heating | 10.1% | 81.2% | 0.34 |
| 6037 | Window Film (U=0.51, SHGC=0.24) | SFD | LI | Retrofit | 19,017.0 | 9.2% | 1,747.0 | 0.982 | 0.65 | 10 | \$2,760.00 | Installation of window film on single-pane windows in homes with non-heat pump electric heating | 10.1% | 82.0% | 0.31 |
| 6038 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFD | LI | Retrofit | 15,960.0 | 4.4% | 696.0 | 0.355 | 0.65 | 20 | \$5,236.11 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-heat pump electric heating | 10.1% | 82.0% | 0.08 |
| 6039 | Ceiling Insulation: R-20 to R-60 | SFD | NLI | Retrofit | 1,847.0 | 4.3% | 79.0 | 0.104 | 0.65 | 25 | \$2,724.04 | Addition of R-20 ceiling insulation in adequately insulated homes with non-electric heating | 83.4% | 81.2% | 0.03 |
| 6040 | Ceiling Insulation: R-8 to R-38 | SFD | NLI | Retrofit | 1,995.0 | 10.2% | 203.0 | 0.284 | 0.65 | 25 | \$1,879.96 | Addition of R-8 ceiling insulation in poorly insulated homes with non-electric heating | 83.4% | 96.0% | 0.11 |
| 6041 | Exterior Wall Insulation: R-0 to R-13 | SFD | NLI | Retrofit | 2,653.0 | 30.9% | 820.0 | 0.948 | 0.65 | 25 | \$3,069.52 | Addition of exterior wall insulation in poorly homes with non-electric heating | 83.4% | 84.0% | 0.25 |
| 6042 | Exterior Wall Insulation: R-0 to R-19 | SFD | NLI | Retrofit | 2,653.0 | 35.1% | 931.0 | 1.153 | 0.65 | 25 | \$3,899.12 | Addition of exterior wall insulation in poorly homes with non-electric heating | 83.4% | 84.0% | 0.23 |
| 6043 | Floor Insulation: R-0 to R-19 | SFD | NLI | Retrofit | 1,797.0 | -11.2% | -202.0 | -0.247 | 0.65 | 25 | \$2,035.00 | Addition of floor insulation in homes with unconditioned basements or crawl spaces and non-electric heating | 8.8% | 49.0% | -0.09 |
| 6044 | Basement Wall Insulation: R-0 to R-13 | SFD | NLI | Retrofit | 1,756.0 | -0.6% | -11.0 | -0.033 | 0.65 | 25 | \$2,713.60 | Addition of basement wall insulation in homes with poorly insulated conditioned basements and non-electric heating | 4.7% | 49.0% | -0.01 |
| 6045 | Air Sealing: 13 ACH50 to 9 ACH50 | SFD | NLI | Retrofit | 1,946.0 | 5.1% | 99.0 | 0.048 | 0.65 | 15 | \$968.00 | Air sealing in poorly sealed homes with non-electric heating | 83.4% | 82.0% | 0.07 |

Measure Assumptions - Penn Power

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|--|-----------------|---------------|-------------------|
| 6046 | Air Sealing: 9 ACH50 to 7 ACH50 | SFD | NLI | Retrofit | 1,847.0 | 2.7% | 49.0 | 0.024 | 0.65 | 15 | \$968.00 | Air sealing in adequately sealed homes with non-electric heating | 83.4% | 74.0% | 0.03 |
| 6047 | Duct Sealing: 38.5% to 25% (CFM @25Pa) | SFD | NLI | Retrofit | 1,899.0 | 2.7% | 52.0 | 0.045 | 0.65 | 20 | \$744.00 | Duct sealing in homes with poorly sealed ducts and non-electric furnaces | 70.8% | 61.0% | 0.06 |
| 6048 | Duct Sealing: 25% to 16.25% (CFM @25Pa) | SFD | NLI | Retrofit | 1,847.0 | 1.7% | 32.0 | 0.022 | 0.65 | 20 | \$744.00 | Duct sealing in homes with adequately sealed ducts and non-electric furnaces | 70.8% | 45.0% | 0.03 |
| 6049 | Duct Insulation (R-0 to R-8) | SFD | NLI | Retrofit | 1,876.0 | 1.9% | 35.0 | 0.018 | 0.65 | 20 | \$862.40 | Installation of duct insulation in homes with poorly insulated ducts and non-electric furnaces | 70.8% | 29.0% | 0.03 |
| 6050 | Window Film (U=0.51, SHGC=0.24) | SFD | NLI | Retrofit | 2,136.0 | 28.4% | 606.0 | 0.991 | 0.65 | 10 | \$2,760.00 | Installation of window film on single-pane windows in homes with non-electric heating | 83.4% | 82.0% | 0.19 |
| 6051 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFD | NLI | Retrofit | 1,847.0 | 11.8% | 218.0 | 0.361 | 0.65 | 20 | \$5,236.11 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-electric heating | 83.4% | 82.0% | 0.05 |
| 6052 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFD | ALL | ROB | 1,847.0 | 11.8% | 218.0 | 0.361 | 0.65 | 20 | \$211.88 | Installation of ENERGY STAR windows instead of double-pane windows in homes with non-electric heating | 83.4% | 48.0% | 1.15 |
| 6053 | Radiant Barrier | SFD | ALL | Retrofit | 1,847.0 | 2.3% | 42.0 | 0.065 | 0.65 | 25 | \$1,087.84 | Installation of radiant barriers in homes with non-electric heating | 83.4% | 10.0% | 0.04 |
| 6054 | Low Income Weatherization Package | SFD | LI | Retrofit | 2,018.0 | 6.7% | 135.0 | 0.072 | 0.65 | 20 | \$2,260.24 | Installation of package of weatherization measures in homes with non-electric heating | 83.4% | 81.2% | 0.04 |
| 6055 | Window Film (U=0.51, SHGC=0.24) | SFD | LI | Retrofit | 2,136.0 | 28.4% | 606.0 | 0.991 | 0.65 | 10 | \$2,760.00 | Installation of window film on single-pane windows in homes with non-electric heating | 83.4% | 82.0% | 0.19 |
| 6056 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFD | LI | Retrofit | 1,847.0 | 11.8% | 218.0 | 0.361 | 0.65 | 20 | \$5,236.11 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-electric heating | 83.4% | 82.0% | 0.05 |
| 6057 | Residential New Construction Tier 1 (15% more efficient) | SFD | ALL | NC | 1,388.0 | 9.8% | 136.0 | 0.062 | 0.65 | 20 | \$2,561.00 | New home built 15% more efficient than code - in homes with non-electric heating | 83.4% | 0.0% | 0.03 |
| 6058 | Residential New Construction Tier 2 (30% more efficient) | SFD | ALL | NC | 1,388.0 | 31.0% | 430.0 | 0.330 | 0.65 | 20 | \$4,971.41 | New home built 30% more efficient than code - in homes with non-electric heating | 83.4% | 0.0% | 0.07 |
| 6059 | Ceiling Insulation: R-20 to R-60 | SFA | NLI | Retrofit | 5,692.0 | 7.0% | 399.0 | 0.090 | 0.65 | 25 | \$2,567.00 | Addition of R-20 ceiling insulation in adequately insulated homes with heat pumps | 6.5% | 81.2% | 0.08 |
| 6060 | Ceiling Insulation: R-8 to R-38 | SFA | NLI | Retrofit | 6,460.0 | 16.3% | 1,051.0 | 0.245 | 0.65 | 25 | \$1,771.58 | Addition of R-8 ceiling insulation in poorly insulated homes with heat pumps | 6.5% | 96.0% | 0.30 |
| 6061 | Exterior Wall Insulation: R-0 to R-13 | SFA | NLI | Retrofit | 8,891.0 | 36.6% | 3,256.0 | 0.458 | 0.65 | 25 | \$2,968.88 | Addition of exterior wall insulation in poorly homes with heat pumps | 6.5% | 84.0% | 0.52 |
| 6062 | Exterior Wall Insulation: R-0 to R-19 | SFA | NLI | Retrofit | 8,891.0 | 41.1% | 3,654.0 | 0.544 | 0.65 | 25 | \$3,771.28 | Addition of exterior wall insulation in poorly homes with heat pumps | 6.5% | 84.0% | 0.46 |
| 6063 | Floor Insulation: R-0 to R-19 | SFA | NLI | Retrofit | 5,922.0 | 4.6% | 270.0 | -0.167 | 0.65 | 25 | \$1,572.50 | Addition of floor insulation in homes with unconditioned basements or crawl spaces and heat pumps | 0.7% | 49.0% | 0.03 |
| 6064 | Basement Wall Insulation: R-0 to R-13 | SFA | NLI | Retrofit | 4,675.0 | 9.4% | 438.0 | -0.001 | 0.65 | 25 | \$2,406.40 | Addition of basement wall insulation in homes with poorly insulated conditioned basements and heat pumps | 0.4% | 49.0% | 0.08 |
| 6065 | Air Sealing: 13 ACH50 to 9 ACH50 | SFA | NLI | Retrofit | 6,927.0 | 17.8% | 1,235.0 | 0.042 | 0.65 | 15 | \$748.00 | Air sealing in poorly sealed homes with heat pumps | 6.5% | 82.0% | 0.71 |
| 6066 | Air Sealing: 9 ACH50 to 7 ACH50 | SFA | NLI | Retrofit | 5,692.0 | 10.0% | 572.0 | 0.024 | 0.65 | 15 | \$748.00 | Air sealing in adequately sealed homes with heat pumps | 6.5% | 74.0% | 0.33 |
| 6067 | Duct Sealing: 38.5% to 25% (CFM @25Pa) | SFA | NLI | Retrofit | 5,872.0 | 3.1% | 180.0 | 0.017 | 0.65 | 20 | \$744.00 | Duct sealing in homes with poorly sealed ducts and heat pumps | 6.5% | 61.0% | 0.11 |
| 6068 | Duct Sealing: 25% to 16.25% (CFM @25Pa) | SFA | NLI | Retrofit | 5,692.0 | 2.1% | 122.0 | 0.012 | 0.65 | 20 | \$744.00 | Duct sealing in homes with adequately sealed ducts and heat pumps | 6.5% | 45.0% | 0.08 |
| 6069 | Duct Insulation (R-0 to R-8) | SFA | NLI | Retrofit | 5,836.0 | 2.9% | 172.0 | 0.000 | 0.65 | 20 | \$666.40 | Installation of duct insulation in homes with poorly insulated ducts and heat pumps | 6.5% | 29.0% | 0.11 |
| 6070 | Window Film (U=0.51, SHGC=0.24) | SFA | NLI | Retrofit | 6,679.0 | 11.5% | 771.0 | 0.559 | 0.65 | 10 | \$1,860.00 | Installation of window film on single-pane windows in homes with heat pumps | 6.5% | 82.0% | 0.22 |
| 6071 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFA | NLI | Retrofit | 5,692.0 | 5.2% | 297.0 | 0.211 | 0.65 | 20 | \$3,528.68 | Installation of ENERGY STAR windows to replace single-pane windows in homes with heat pumps | 6.5% | 82.0% | 0.06 |
| 6072 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFA | ALL | ROB | 5,692.0 | 5.2% | 297.0 | 0.211 | 0.65 | 20 | \$142.79 | Installation of ENERGY STAR windows instead of double-pane windows in homes with heat pumps | 6.5% | 48.0% | 1.45 |
| 6073 | Low Income Weatherization Package | SFA | LI | Retrofit | 7,259.0 | 28.4% | 2,064.0 | 0.131 | 0.65 | 20 | \$4,938.29 | Installation of package of weatherization measures in homes with heat pumps | 6.5% | 81.2% | 0.19 |
| 6074 | Window Film (U=0.51, SHGC=0.24) | SFA | LI | Retrofit | 6,679.0 | 11.5% | 771.0 | 0.559 | 0.65 | 10 | \$1,860.00 | Installation of window film on single-pane windows in homes with heat pumps | 6.5% | 82.0% | 0.22 |
| 6075 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFA | LI | Retrofit | 5,692.0 | 5.2% | 297.0 | 0.211 | 0.65 | 20 | \$3,528.68 | Installation of ENERGY STAR windows to replace single-pane windows in homes with heat pumps | 6.5% | 82.0% | 0.06 |
| 6076 | Residential New Construction Tier 1 (15% more efficient) | SFA | ALL | NC | 5,266.0 | 34.8% | 1,835.0 | 0.077 | 0.65 | 20 | \$2,561.00 | New home built 15% more efficient than code - in homes with heat pumps | 16.6% | 0.0% | 0.31 |
| 6077 | Residential New Construction Tier 2 (30% more efficient) | SFA | ALL | NC | 5,266.0 | 35.5% | 1,869.0 | 0.141 | 0.65 | 20 | \$3,345.67 | New home built 30% more efficient than code - in homes with heat pumps | 16.6% | 0.0% | 0.25 |
| 6078 | Ceiling Insulation: R-20 to R-60 | SFA | NLI | Retrofit | 12,171.0 | 7.6% | 919.0 | 0.114 | 0.65 | 25 | \$2,567.00 | Addition of R-20 ceiling insulation in adequately insulated homes with non-heat pump electric heating | 10.1% | 81.2% | 0.17 |
| 6079 | Ceiling Insulation: R-8 to R-38 | SFA | NLI | Retrofit | 13,915.0 | 17.2% | 2,396.0 | 0.298 | 0.65 | 25 | \$1,771.58 | Addition of R-8 ceiling insulation in poorly insulated homes with non-heat pump electric heating | 10.1% | 96.0% | 0.63 |
| 6080 | Exterior Wall Insulation: R-0 to R-13 | SFA | NLI | Retrofit | 19,166.0 | 37.2% | 7,127.0 | 0.538 | 0.65 | 25 | \$2,968.88 | Addition of exterior wall insulation in poorly homes with non-heat pump electric heating | 10.1% | 84.0% | 1.08 |
| 6081 | Exterior Wall Insulation: R-0 to R-19 | SFA | NLI | Retrofit | 19,166.0 | 42.0% | 8,053.0 | 0.645 | 0.65 | 25 | \$3,771.28 | Addition of exterior wall insulation in poorly homes with non-heat pump electric heating | 10.1% | 84.0% | 0.96 |

Measure Assumptions - Penn Power

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|--|-----------------|---------------|-------------------|
| 6082 | Floor Insulation: R-0 to R-19 | SFA | NLI | Retrofit | 13,059.0 | 8.0% | 1,044.0 | -0.202 | 0.65 | 25 | \$1,572.50 | Addition of floor insulation in homes with unconditioned basements or crawl spaces and non-heat pump electric heating | 1.1% | 49.0% | 0.23 |
| 6083 | Basement Wall Insulation: R-0 to R-13 | SFA | NLI | Retrofit | 9,944.0 | 11.6% | 1,149.0 | -0.011 | 0.65 | 25 | \$2,406.40 | Addition of basement wall insulation in homes with poorly insulated conditioned basements and non-heat pump electric heating | 0.6% | 49.0% | 0.20 |
| 6084 | Air Sealing: 13 ACH50 to 9 ACH50 | SFA | NLI | Retrofit | 14,934.0 | 18.5% | 2,763.0 | 0.051 | 0.65 | 15 | \$748.00 | Air sealing in poorly sealed homes with non-heat pump electric heating | 10.1% | 82.0% | 1.57 |
| 6085 | Air Sealing: 9 ACH50 to 7 ACH50 | SFA | NLI | Retrofit | 12,171.0 | 11.1% | 1,356.0 | 0.033 | 0.65 | 15 | \$748.00 | Air sealing in adequately sealed homes with non-heat pump electric heating | 10.1% | 74.0% | 0.78 |
| 6086 | Duct Sealing: 38.5% to 25% (CFM @25Pa) | SFA | NLI | Retrofit | 12,571.0 | 3.2% | 400.0 | 0.025 | 0.65 | 20 | \$744.00 | Duct sealing in homes with poorly sealed ducts and electric furnaces | 4.2% | 61.0% | 0.24 |
| 6087 | Duct Sealing: 25% to 16.25% (CFM @25Pa) | SFA | NLI | Retrofit | 12,171.0 | 2.2% | 267.0 | 0.013 | 0.65 | 20 | \$744.00 | Duct sealing in homes with adequately sealed ducts and electric furnaces | 4.2% | 45.0% | 0.16 |
| 6088 | Duct Insulation (R-0 to R-8) | SFA | NLI | Retrofit | 12,452.0 | 2.7% | 332.0 | 0.001 | 0.65 | 20 | \$666.40 | Installation of duct insulation in homes with poorly insulated ducts and electric furnaces | 4.2% | 29.0% | 0.21 |
| 6089 | Window Film (U=0.51, SHGC=0.24) | SFA | NLI | Retrofit | 14,334.0 | 8.7% | 1,247.0 | 0.692 | 0.65 | 10 | \$1,860.00 | Installation of window film on single-pane windows in homes with non-heat pump electric heating | 10.1% | 82.0% | 0.33 |
| 6090 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFA | NLI | Retrofit | 12,171.0 | 4.2% | 506.0 | 0.263 | 0.65 | 20 | \$3,528.68 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-heat pump electric heating | 10.1% | 82.0% | 0.09 |
| 6091 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFA | ALL | ROB | 12,171.0 | 4.2% | 506.0 | 0.263 | 0.65 | 20 | \$142.79 | Installation of ENERGY STAR windows instead of double-pane windows in homes with non-heat pump electric heating | 10.1% | 48.0% | 2.21 |
| 6092 | Low Income Weatherization Package | SFA | LI | Retrofit | 15,699.0 | 30.2% | 4,735.0 | 0.160 | 0.65 | 20 | \$4,938.29 | Installation of package of weatherization measures in homes with non-heat pump electric heating | 10.1% | 81.2% | 0.41 |
| 6093 | Window Film (U=0.51, SHGC=0.24) | SFA | LI | Retrofit | 14,334.0 | 8.7% | 1,247.0 | 0.692 | 0.65 | 10 | \$1,860.00 | Installation of window film on single-pane windows in homes with non-heat pump electric heating | 10.1% | 82.0% | 0.33 |
| 6094 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFA | LI | Retrofit | 12,171.0 | 4.2% | 506.0 | 0.263 | 0.65 | 20 | \$3,528.68 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-heat pump electric heating | 10.1% | 82.0% | 0.09 |
| 6095 | Ceiling Insulation: R-20 to R-60 | SFA | NLI | Retrofit | 1,708.0 | 4.2% | 72.0 | 0.112 | 0.65 | 25 | \$2,567.00 | Addition of R-20 ceiling insulation in adequately insulated homes with non-electric heating | 83.4% | 81.2% | 0.03 |
| 6096 | Ceiling Insulation: R-8 to R-38 | SFA | NLI | Retrofit | 1,847.0 | 10.3% | 190.0 | 0.295 | 0.65 | 25 | \$1,771.58 | Addition of R-8 ceiling insulation in poorly insulated homes with non-electric heating | 83.4% | 96.0% | 0.12 |
| 6097 | Exterior Wall Insulation: R-0 to R-13 | SFA | NLI | Retrofit | 2,217.0 | 23.4% | 518.0 | 0.528 | 0.65 | 25 | \$2,968.88 | Addition of exterior wall insulation in poorly homes with non-electric heating | 83.4% | 84.0% | 0.15 |
| 6098 | Exterior Wall Insulation: R-0 to R-19 | SFA | NLI | Retrofit | 2,217.0 | 26.3% | 584.0 | 0.640 | 0.65 | 25 | \$3,771.28 | Addition of exterior wall insulation in poorly homes with non-electric heating | 83.4% | 84.0% | 0.14 |
| 6099 | Floor Insulation: R-0 to R-19 | SFA | NLI | Retrofit | 1,557.0 | -11.5% | -179.0 | -0.188 | 0.65 | 25 | \$1,572.50 | Addition of floor insulation in homes with unconditioned basements or crawl spaces and non-electric heating | 8.8% | 49.0% | -0.10 |
| 6100 | Basement Wall Insulation: R-0 to R-13 | SFA | NLI | Retrofit | 1,537.0 | -0.6% | -9.0 | -0.012 | 0.65 | 25 | \$2,406.40 | Addition of basement wall insulation in homes with poorly insulated conditioned basements and non-electric heating | 4.7% | 49.0% | 0.00 |
| 6101 | Air Sealing: 13 ACH50 to 9 ACH50 | SFA | NLI | Retrofit | 1,802.0 | 5.2% | 94.0 | 0.049 | 0.65 | 15 | \$748.00 | Air sealing in poorly sealed homes with non-electric heating | 83.4% | 82.0% | 0.08 |
| 6102 | Air Sealing: 9 ACH50 to 7 ACH50 | SFA | NLI | Retrofit | 1,708.0 | 2.6% | 45.0 | 0.032 | 0.65 | 15 | \$748.00 | Air sealing in adequately sealed homes with non-electric heating | 83.4% | 74.0% | 0.04 |
| 6103 | Duct Sealing: 38.5% to 25% (CFM @25Pa) | SFA | NLI | Retrofit | 1,744.0 | 2.1% | 36.0 | 0.026 | 0.65 | 20 | \$744.00 | Duct sealing in homes with poorly sealed ducts and non-electric furnaces | 70.8% | 61.0% | 0.04 |
| 6104 | Duct Sealing: 25% to 16.25% (CFM @25Pa) | SFA | NLI | Retrofit | 1,708.0 | 1.3% | 23.0 | 0.019 | 0.65 | 20 | \$744.00 | Duct sealing in homes with adequately sealed ducts and non-electric furnaces | 70.8% | 45.0% | 0.02 |
| 6105 | Duct Insulation (R-0 to R-8) | SFA | NLI | Retrofit | 1,724.0 | 1.0% | 18.0 | 0.006 | 0.65 | 20 | \$666.40 | Installation of duct insulation in homes with poorly insulated ducts and non-electric furnaces | 70.8% | 29.0% | 0.02 |
| 6106 | Window Film (U=0.51, SHGC=0.24) | SFA | NLI | Retrofit | 1,937.0 | 27.8% | 538.0 | 0.690 | 0.65 | 10 | \$1,860.00 | Installation of window film on single-pane windows in homes with non-electric heating | 83.4% | 82.0% | 0.22 |
| 6107 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFA | NLI | Retrofit | 1,708.0 | 11.8% | 202.0 | 0.263 | 0.65 | 20 | \$3,528.68 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-electric heating | 83.4% | 82.0% | 0.06 |
| 6108 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFA | ALL | ROB | 1,708.0 | 11.8% | 202.0 | 0.263 | 0.65 | 20 | \$142.79 | Installation of ENERGY STAR windows instead of double-pane windows in homes with non-electric heating | 83.4% | 48.0% | 1.38 |
| 6109 | Low Income Weatherization Package | SFA | LI | Retrofit | 1,833.0 | 6.6% | 121.0 | 0.068 | 0.65 | 20 | \$1,915.64 | Installation of package of weatherization measures in homes with non-electric heating | 83.4% | 81.2% | 0.04 |
| 6110 | Window Film (U=0.51, SHGC=0.24) | SFA | LI | Retrofit | 1,937.0 | 27.8% | 538.0 | 0.690 | 0.65 | 10 | \$1,860.00 | Installation of window film on single-pane windows in homes with non-electric heating | 83.4% | 82.0% | 0.22 |
| 6111 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFA | LI | Retrofit | 1,708.0 | 11.8% | 202.0 | 0.263 | 0.65 | 20 | \$3,528.68 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-electric heating | 83.4% | 82.0% | 0.06 |
| 6112 | Residential New Construction Tier 1 (15% more efficient) | SFA | ALL | NC | 1,264.0 | 10.8% | 136.0 | 0.090 | 0.65 | 20 | \$2,561.00 | New home built 15% more efficient than code - in homes with non-electric heating | 83.4% | 0.0% | 0.04 |
| 6113 | Residential New Construction Tier 2 (30% more efficient) | SFA | ALL | NC | 1,264.0 | 23.3% | 294.0 | 0.280 | 0.65 | 20 | \$4,302.19 | New home built 30% more efficient than code - in homes with non-electric heating | 83.4% | 0.0% | 0.06 |
| 6114 | Exterior Wall Insulation: R-0 to R-13 | MF | NLI | Retrofit | 3,566.0 | 34.6% | 1,233.0 | 0.227 | 0.65 | 25 | \$1,509.60 | Addition of exterior wall insulation in poorly homes with heat pumps | 6.5% | 84.0% | 0.40 |
| 6115 | Exterior Wall Insulation: R-0 to R-19 | MF | NLI | Retrofit | 3,566.0 | 38.8% | 1,385.0 | 0.262 | 0.65 | 25 | \$1,917.60 | Addition of exterior wall insulation in poorly homes with heat pumps | 6.5% | 84.0% | 0.36 |

Measure Assumptions - Penn Power

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|---|-----------------|---------------|-------------------|
| 6116 | Air Sealing: 13 ACH50 to 9 ACH50 | MF | NLI | Retrofit | 2,698.0 | 12.7% | 343.0 | 0.024 | 0.65 | 15 | \$385.00 | Air sealing in poorly sealed homes with heat pumps | 6.5% | 82.0% | 0.40 |
| 6117 | Air Sealing: 9 ACH50 to 7 ACH50 | MF | NLI | Retrofit | 2,355.0 | 6.8% | 159.0 | 0.013 | 0.65 | 15 | \$385.00 | Air sealing in adequately sealed homes with heat pumps | 6.5% | 74.0% | 0.19 |
| 6118 | Duct Sealing: 38.5% to 25% (CFM @25Pa) | MF | NLI | Retrofit | 2,587.0 | 9.0% | 232.0 | 0.104 | 0.65 | 20 | \$744.00 | Duct sealing in homes with poorly sealed ducts and heat pumps | 6.5% | 61.0% | 0.19 |
| 6119 | Duct Sealing: 25% to 16.25% (CFM @25Pa) | MF | NLI | Retrofit | 2,355.0 | 5.5% | 129.0 | 0.068 | 0.65 | 20 | \$744.00 | Duct sealing in homes with adequately sealed ducts and heat pumps | 6.5% | 45.0% | 0.11 |
| 6120 | Duct Insulation (R-0 to R-8) | MF | NLI | Retrofit | 2,624.0 | 11.9% | 311.0 | 0.175 | 0.65 | 20 | \$453.60 | Installation of duct insulation in homes with poorly insulated ducts and heat pumps | 6.5% | 29.0% | 0.44 |
| 6121 | Window Film (U=0.51, SHGC=0.24) | MF | NLI | Retrofit | 2,987.0 | 21.1% | 631.0 | 0.315 | 0.65 | 10 | \$1,236.00 | Installation of window film on single-pane windows in homes with heat pumps | 6.5% | 82.0% | 0.24 |
| 6122 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | MF | NLI | Retrofit | 2,355.0 | 10.5% | 248.0 | 0.124 | 0.65 | 20 | \$2,344.87 | Installation of ENERGY STAR windows to replace single-pane windows in homes with heat pumps | 6.5% | 82.0% | 0.07 |
| 6123 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | MF | ALL | ROB | 2,355.0 | 10.5% | 248.0 | 0.124 | 0.65 | 20 | \$94.88 | Installation of ENERGY STAR windows instead of double-pane windows in homes with heat pumps | 6.5% | 48.0% | 1.61 |
| 6124 | Low Income Weatherization Package | MF | LI | Retrofit | 2,812.0 | 21.6% | 606.0 | 0.114 | 0.65 | 20 | \$1,828.02 | Installation of package of weatherization measures in homes with heat pumps | 6.5% | 81.2% | 0.16 |
| 6125 | Window Film (U=0.51, SHGC=0.24) | MF | LI | Retrofit | 2,987.0 | 21.1% | 631.0 | 0.315 | 0.65 | 10 | \$1,236.00 | Installation of window film on single-pane windows in homes with heat pumps | 6.5% | 82.0% | 0.24 |
| 6126 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | MF | LI | Retrofit | 2,355.0 | 10.5% | 248.0 | 0.124 | 0.65 | 20 | \$2,344.87 | Installation of ENERGY STAR windows to replace single-pane windows in homes with heat pumps | 6.5% | 82.0% | 0.07 |
| 6127 | Residential New Construction Tier 1 (15% more efficient) | MF | ALL | NC | 1,856.0 | 24.9% | 462.0 | 0.094 | 0.65 | 20 | \$2,561.00 | New home built 15% more efficient than code - in homes with heat pumps | 16.6% | 0.0% | 0.09 |
| 6128 | Residential New Construction Tier 2 (30% more efficient) | MF | ALL | NC | 1,856.0 | 28.1% | 521.0 | 0.105 | 0.65 | 20 | \$3,345.67 | New home built 30% more efficient than code - in homes with heat pumps | 16.6% | 0.0% | 0.08 |
| 6129 | Exterior Wall Insulation: R-0 to R-13 | MF | NLI | Retrofit | 6,656.0 | 41.0% | 2,726.0 | 0.261 | 0.65 | 25 | \$1,509.60 | Addition of exterior wall insulation in poorly homes with non-heat pump electric heating | 10.1% | 84.0% | 0.82 |
| 6130 | Exterior Wall Insulation: R-0 to R-19 | MF | NLI | Retrofit | 6,656.0 | 46.0% | 3,063.0 | 0.311 | 0.65 | 25 | \$1,917.60 | Addition of exterior wall insulation in poorly homes with non-heat pump electric heating | 10.1% | 84.0% | 0.73 |
| 6131 | Air Sealing: 13 ACH50 to 9 ACH50 | MF | NLI | Retrofit | 4,880.0 | 18.5% | 903.0 | 0.036 | 0.65 | 15 | \$385.00 | Air sealing in poorly sealed homes with non-heat pump electric heating | 10.1% | 82.0% | 1.02 |
| 6132 | Air Sealing: 9 ACH50 to 7 ACH50 | MF | NLI | Retrofit | 3,977.0 | 10.7% | 425.0 | 0.019 | 0.65 | 15 | \$385.00 | Air sealing in adequately sealed homes with non-heat pump electric heating | 10.1% | 74.0% | 0.48 |
| 6133 | Duct Sealing: 38.5% to 25% (CFM @25Pa) | MF | NLI | Retrofit | 4,252.0 | 6.5% | 275.0 | 0.118 | 0.65 | 20 | \$744.00 | Duct sealing in homes with poorly sealed ducts and electric furnaces | 4.2% | 61.0% | 0.22 |
| 6134 | Duct Sealing: 25% to 16.25% (CFM @25Pa) | MF | NLI | Retrofit | 3,977.0 | 4.3% | 172.0 | 0.080 | 0.65 | 20 | \$744.00 | Duct sealing in homes with adequately sealed ducts and electric furnaces | 4.2% | 45.0% | 0.14 |
| 6135 | Duct Insulation (R-0 to R-8) | MF | NLI | Retrofit | 4,261.0 | 7.8% | 334.0 | 0.211 | 0.65 | 20 | \$453.60 | Installation of duct insulation in homes with poorly insulated ducts and electric furnaces | 4.2% | 29.0% | 0.49 |
| 6136 | Window Film (U=0.51, SHGC=0.24) | MF | NLI | Retrofit | 5,312.0 | 19.8% | 1,051.0 | 0.383 | 0.65 | 10 | \$1,236.00 | Installation of window film on single-pane windows in homes with non-heat pump electric heating | 10.1% | 82.0% | 0.36 |
| 6137 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | MF | NLI | Retrofit | 3,977.0 | 10.7% | 424.0 | 0.160 | 0.65 | 20 | \$2,344.87 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-heat pump electric heating | 10.1% | 82.0% | 0.10 |
| 6138 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | MF | ALL | ROB | 3,977.0 | 10.7% | 424.0 | 0.160 | 0.65 | 20 | \$94.88 | Installation of ENERGY STAR windows instead of double-pane windows in homes with non-heat pump electric heating | 10.1% | 48.0% | 2.54 |
| 6139 | Low Income Weatherization Package | MF | LI | Retrofit | 5,132.0 | 26.8% | 1,373.0 | 0.151 | 0.65 | 20 | \$1,828.02 | Installation of package of weatherization measures in homes with non-heat pump electric heating | 10.1% | 81.2% | 0.35 |
| 6140 | Window Film (U=0.51, SHGC=0.24) | MF | LI | Retrofit | 5,312.0 | 19.8% | 1,051.0 | 0.383 | 0.65 | 10 | \$1,236.00 | Installation of window film on single-pane windows in homes with non-heat pump electric heating | 10.1% | 82.0% | 0.36 |
| 6141 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | MF | LI | Retrofit | 3,977.0 | 10.7% | 424.0 | 0.160 | 0.65 | 20 | \$2,344.87 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-heat pump electric heating | 10.1% | 82.0% | 0.10 |
| 6142 | Exterior Wall Insulation: R-0 to R-13 | MF | NLI | Retrofit | 1,890.0 | 10.7% | 202.0 | 0.259 | 0.65 | 25 | \$1,509.60 | Addition of exterior wall insulation in poorly homes with non-electric heating | 83.4% | 84.0% | 0.13 |
| 6143 | Exterior Wall Insulation: R-0 to R-19 | MF | NLI | Retrofit | 1,890.0 | 12.0% | 227.0 | 0.308 | 0.65 | 25 | \$1,917.60 | Addition of exterior wall insulation in poorly homes with non-electric heating | 83.4% | 84.0% | 0.12 |
| 6144 | Air Sealing: 13 ACH50 to 9 ACH50 | MF | NLI | Retrofit | 1,719.0 | 1.6% | 28.0 | 0.031 | 0.65 | 15 | \$385.00 | Air sealing in poorly sealed homes with non-electric heating | 83.4% | 82.0% | 0.07 |
| 6145 | Air Sealing: 9 ACH50 to 7 ACH50 | MF | NLI | Retrofit | 1,691.0 | 0.8% | 14.0 | 0.020 | 0.65 | 15 | \$385.00 | Air sealing in adequately sealed homes with non-electric heating | 83.4% | 74.0% | 0.04 |
| 6146 | Duct Sealing: 38.5% to 25% (CFM @25Pa) | MF | NLI | Retrofit | 1,797.0 | 5.9% | 106.0 | 0.131 | 0.65 | 20 | \$744.00 | Duct sealing in homes with poorly sealed ducts and non-electric furnaces | 70.8% | 61.0% | 0.14 |
| 6147 | Duct Sealing: 25% to 16.25% (CFM @25Pa) | MF | NLI | Retrofit | 1,691.0 | 4.0% | 68.0 | 0.091 | 0.65 | 20 | \$744.00 | Duct sealing in homes with adequately sealed ducts and non-electric furnaces | 70.8% | 45.0% | 0.09 |
| 6148 | Duct Insulation (R-0 to R-8) | MF | NLI | Retrofit | 1,831.0 | 9.0% | 164.0 | 0.248 | 0.65 | 20 | \$453.60 | Installation of duct insulation in homes with poorly insulated ducts and non-electric furnaces | 70.8% | 29.0% | 0.38 |
| 6149 | Window Film (U=0.51, SHGC=0.24) | MF | NLI | Retrofit | 1,849.0 | 23.1% | 427.0 | 0.377 | 0.65 | 10 | \$1,236.00 | Installation of window film on single-pane windows in homes with non-electric heating | 83.4% | 82.0% | 0.22 |
| 6150 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | MF | NLI | Retrofit | 1,691.0 | 9.1% | 154.0 | 0.160 | 0.65 | 20 | \$2,344.87 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-electric heating | 83.4% | 82.0% | 0.06 |
| 6151 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | MF | ALL | ROB | 1,691.0 | 9.1% | 154.0 | 0.160 | 0.65 | 20 | \$94.88 | Installation of ENERGY STAR windows instead of double-pane windows in homes with non-electric heating | 83.4% | 48.0% | 1.42 |

Measure Assumptions - Penn Power

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|---|-----------------|---------------|-------------------|
| 6152 | Low Income Weatherization Package | MF | LI | Retrofit | 1,738.0 | 5.7% | 99.0 | 0.114 | 0.65 | 20 | \$1,417.36 | Installation of package of weatherization measures in homes with non-electric heating | 83.4% | 81.2% | 0.06 |
| 6153 | Window Film (U=0.51, SHGC=0.24) | MF | LI | Retrofit | 1,849.0 | 23.1% | 427.0 | 0.377 | 0.65 | 10 | \$1,236.00 | Installation of window film on single-pane windows in homes with non-electric heating | 83.4% | 82.0% | 0.22 |
| 6154 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | MF | LI | Retrofit | 1,691.0 | 9.1% | 154.0 | 0.160 | 0.65 | 20 | \$2,344.87 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-electric heating | 83.4% | 82.0% | 0.06 |
| 6155 | Residential New Construction Tier 1 (15% more efficient) | MF | ALL | NC | 1,158.0 | 7.0% | 81.0 | 0.114 | 0.65 | 20 | \$2,561.00 | New home built 15% more efficient than code - in homes with non-electric heating | 83.4% | 0.0% | 0.03 |
| 6156 | Residential New Construction Tier 2 (30% more efficient) | MF | ALL | NC | 1,158.0 | 21.2% | 245.0 | 0.221 | 0.65 | 20 | \$4,302.19 | New home built 30% more efficient than code - in homes with non-electric heating | 83.4% | 0.0% | 0.05 |
| 7000 | Miscellaneous | | | | | | | | | | | | | | |
| 7001 | Indirect Feedback (Home Energy Reports) - homes with ASHP | SFD | All | Retrofit | 17,778.0 | 1.5% | 266.7 | 0.0304 | 0.65 | 1 | \$0.00 | Home energy reports in homes with heat pumps | 6.5% | 0.0% | 5.00 |
| 7002 | Direct (Real Time) Feedback - homes with ASHP | SFD | All | Retrofit | 17,778.0 | 9.2% | 1,635.6 | 0.1867 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with heat pumps | 6.5% | 5.0% | 2.03 |
| 7003 | Indirect Feedback (Home Energy Reports) - homes with non-ASHP electric heating | SFD | All | Retrofit | 26,448.0 | 1.5% | 396.7 | 0.0453 | 0.65 | 1 | \$0.00 | Home energy reports in homes with non-heat pump electric heating | 10.1% | 0.0% | 5.00 |
| 7004 | Direct (Real Time) Feedback - homes with non-ASHP electric heating | SFD | All | Retrofit | 26,448.0 | 9.2% | 2,433.2 | 0.2778 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with non-heat pump electric heating | 10.1% | 5.0% | 3.02 |
| 7005 | Indirect Feedback (Home Energy Reports) - homes with gas heating | SFD | All | Retrofit | 8,488.0 | 1.5% | 127.3 | 0.0145 | 0.65 | 1 | \$0.00 | Home energy reports in homes with non-electric heating | 83.4% | 0.0% | 5.00 |
| 7006 | Direct (Real Time) Feedback - homes with gas heating | SFD | All | Retrofit | 8,488.0 | 9.2% | 780.9 | 0.0891 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with non-electric heating | 83.4% | 5.0% | 1.07 |
| 7007 | Variable Speed Pool Pumps (with Load Shifting Option) | SFD | All | Retrofit | 706.6 | 84.0% | 593.5 | 0.3908 | 1.00 | 10 | \$750.00 | Installation of a variable speed pool pump to replace a constant speed pool pump | 8.7% | 25.0% | 0.51 |
| 7008 | Indirect Feedback (Home Energy Reports) - homes with ASHP | SFD | All | NC | 16,990.0 | 1.5% | 254.9 | 0.0291 | 0.65 | 1 | \$0.00 | Home energy reports in homes with heat pumps | 16.6% | 0.0% | 5.00 |
| 7009 | Direct (Real Time) Feedback - homes with ASHP | SFD | All | NC | 16,990.0 | 9.2% | 1,563.1 | 0.1784 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with heat pumps | 16.6% | 0.0% | 1.94 |
| 7010 | Indirect Feedback (Home Energy Reports) - homes with gas heating | SFD | All | NC | 8,432.0 | 1.5% | 126.5 | 0.0144 | 0.65 | 1 | \$0.00 | Home energy reports in homes with non-electric heating | 83.4% | 0.0% | 5.00 |
| 7011 | Direct (Real Time) Feedback - homes with gas heating | SFD | All | NC | 8,432.0 | 9.2% | 775.7 | 0.0886 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with non-electric heating | 83.4% | 0.0% | 1.07 |
| 7012 | Variable Speed Pool Pumps (with Load Shifting Option) | SFD | All | NC | 706.6 | 84.0% | 593.5 | 0.3908 | 1.00 | 10 | \$750.00 | Installation of a variable speed pool pump to replace a constant speed pool pump | 8.7% | 0.0% | 0.51 |
| 7013 | Indirect Feedback (Home Energy Reports) - homes with ASHP | SFA | All | Retrofit | 14,669.0 | 1.5% | 220.0 | 0.0251 | 0.65 | 1 | \$0.00 | Home energy reports in homes with heat pumps | 6.5% | 0.0% | 5.00 |
| 7014 | Direct (Real Time) Feedback - homes with ASHP | SFA | All | Retrofit | 14,669.0 | 9.2% | 1,349.5 | 0.1541 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with heat pumps | 6.5% | 5.0% | 1.67 |
| 7015 | Indirect Feedback (Home Energy Reports) - homes with non-ASHP electric heating | SFA | All | Retrofit | 21,152.0 | 1.5% | 317.3 | 0.0362 | 0.65 | 1 | \$0.00 | Home energy reports in homes with non-heat pump electric heating | 10.1% | 0.0% | 5.00 |
| 7016 | Direct (Real Time) Feedback - homes with non-ASHP electric heating | SFA | All | Retrofit | 21,152.0 | 9.2% | 1,946.0 | 0.2221 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with non-heat pump electric heating | 10.1% | 5.0% | 2.42 |
| 7017 | Indirect Feedback (Home Energy Reports) - homes with gas heating | SFA | All | Retrofit | 7,380.0 | 1.5% | 110.7 | 0.0126 | 0.65 | 1 | \$0.00 | Home energy reports in homes with non-electric heating | 83.4% | 0.0% | 5.00 |
| 7018 | Direct (Real Time) Feedback - homes with gas heating | SFA | All | Retrofit | 7,380.0 | 9.2% | 679.0 | 0.0775 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with non-electric heating | 83.4% | 5.0% | 0.93 |
| 7019 | Indirect Feedback (Home Energy Reports) - homes with ASHP | SFA | All | NC | 14,329.0 | 1.5% | 214.9 | 0.0245 | 0.65 | 1 | \$0.00 | Home energy reports in homes with heat pumps | 16.6% | 0.0% | 5.00 |
| 7020 | Direct (Real Time) Feedback - homes with ASHP | SFA | All | NC | 14,329.0 | 9.2% | 1,318.3 | 0.1505 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with heat pumps | 16.6% | 0.0% | 1.64 |
| 7021 | Indirect Feedback (Home Energy Reports) - homes with gas heating | SFA | All | NC | 7,213.0 | 1.5% | 108.2 | 0.0124 | 0.65 | 1 | \$0.00 | Home energy reports in homes with non-electric heating | 83.4% | 0.0% | 5.00 |
| 7022 | Direct (Real Time) Feedback - homes with gas heating | SFA | All | NC | 7,213.0 | 9.2% | 663.6 | 0.0758 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with non-electric heating | 83.4% | 0.0% | 0.91 |
| 7023 | Indirect Feedback (Home Energy Reports) - homes with ASHP | MF | All | Retrofit | 10,393.0 | 1.5% | 155.9 | 0.0178 | 0.65 | 1 | \$0.00 | Home energy reports in homes with heat pumps | 6.5% | 0.0% | 5.00 |
| 7024 | Direct (Real Time) Feedback - homes with ASHP | MF | All | Retrofit | 10,393.0 | 9.2% | 956.2 | 0.1092 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with heat pumps | 6.5% | 5.0% | 1.19 |
| 7025 | Indirect Feedback (Home Energy Reports) - homes with non-ASHP electric heating | MF | All | Retrofit | 12,016.0 | 1.5% | 180.2 | 0.0206 | 0.65 | 1 | \$0.00 | Home energy reports in homes with non-heat pump electric heating | 10.1% | 0.0% | 5.00 |
| 7026 | Direct (Real Time) Feedback - homes with non-ASHP electric heating | MF | All | Retrofit | 12,016.0 | 9.2% | 1,105.5 | 0.1262 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with non-heat pump electric heating | 10.1% | 5.0% | 1.37 |
| 7027 | Indirect Feedback (Home Energy Reports) - homes with gas heating | MF | All | Retrofit | 6,562.0 | 1.5% | 98.4 | 0.0112 | 0.65 | 1 | \$0.00 | Home energy reports in homes with non-electric heating | 83.4% | 0.0% | 5.00 |
| 7028 | Direct (Real Time) Feedback - homes with gas heating | MF | All | Retrofit | 6,562.0 | 9.2% | 603.7 | 0.0689 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with non-electric heating | 83.4% | 5.0% | 0.83 |
| 7029 | Indirect Feedback (Home Energy Reports) - homes with ASHP | MF | All | NC | 9,883.0 | 1.5% | 148.2 | 0.0169 | 0.65 | 1 | \$0.00 | Home energy reports in homes with heat pumps | 16.6% | 0.0% | 5.00 |
| 7030 | Direct (Real Time) Feedback - homes with ASHP | MF | All | NC | 9,883.0 | 9.2% | 909.2 | 0.1038 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with heat pumps | 16.6% | 0.0% | 1.13 |
| 7031 | Indirect Feedback (Home Energy Reports) - homes with gas heating | MF | All | NC | 6,172.0 | 1.5% | 92.6 | 0.0106 | 0.65 | 1 | \$0.00 | Home energy reports in homes with non-electric heating | 83.4% | 0.0% | 5.00 |
| 7032 | Direct (Real Time) Feedback - homes with gas heating | MF | All | NC | 6,172.0 | 9.2% | 567.8 | 0.0648 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with non-electric heating | 83.4% | 0.0% | 0.78 |

Measure Assumptions - West Penn Power

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|---|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|---|-----------------|---------------|-------------------|
| 1000 | Lighting | | | | | | | | | | | | | | |
| 1001 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | NLI | ROB | 36.3 | 65.8% | 23.9 | 0.035 | 0.10 | 5 | \$0.61 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 2187.7% | 0.0% | 12.45 |
| 1002 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | NLI | ROB | 65.9 | 69.7% | 45.9 | 0.067 | 0.10 | 5 | \$1.64 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 416.7% | 0.0% | 7.86 |
| 1003 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | NLI | ROB | 36.3 | 78.5% | 28.5 | 0.041 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 2187.7% | 0.0% | 3.42 |
| 1004 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | NLI | ROB | 65.9 | 76.3% | 50.2 | 0.073 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 416.7% | 0.0% | 2.69 |
| 1005 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | NLI | ROB | 33.5 | 75.0% | 25.2 | 0.037 | 0.10 | 5 | \$2.71 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1383.8% | 0.0% | 2.90 |
| 1006 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | NLI | ROB | 62.9 | 68.3% | 43.0 | 0.062 | 0.10 | 5 | \$5.26 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 0.0% | 0.0% | 2.60 |
| 1007 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | NLI | ROB | 33.5 | 83.5% | 28.0 | 0.041 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1383.8% | 0.0% | 2.47 |
| 1008 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | NLI | ROB | 62.9 | 75.2% | 47.3 | 0.069 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 0.0% | 0.0% | 2.31 |
| 1009 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | SFD | NLI | ROB | 36.3 | 78.5% | 28.5 | 0.041 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | 1252.1% | 100.0% | 3.42 |
| 1010 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | SFD | NLI | ROB | 65.9 | 76.3% | 50.2 | 0.073 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | 238.5% | 100.0% | 2.69 |
| 1011 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | SFD | NLI | ROB | 33.5 | 83.5% | 28.0 | 0.041 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | 50.7% | 100.0% | 2.47 |
| 1012 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | SFD | NLI | ROB | 62.9 | 75.2% | 47.3 | 0.069 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | 0.0% | 100.0% | 2.31 |
| 1013 | CFL Reflector Replacing 65W/75W Reflector | SFD | NLI | ROB | 56.4 | 74.4% | 42.0 | 0.061 | 0.10 | 5 | \$2.15 | CFL Reflector Replacing 65W/75W Reflector | 684.9% | 0.0% | 7.33 |
| 1014 | LED Reflector Replacing 65W/75W Reflector | SFD | NLI | ROB | 56.4 | 83.8% | 47.3 | 0.069 | 0.10 | 15 | \$9.48 | LED Reflector Replacing 65W/75W Reflector | 684.9% | 0.0% | 4.76 |
| 1015 | LED Reflector Replacing CFL Reflector | SFD | NLI | ROB | 56.4 | 83.8% | 47.3 | 0.069 | 0.10 | 15 | \$9.48 | LED Reflector Replacing CFL Reflector | 65.8% | 100.0% | 4.76 |
| 1016 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | SFD | NLI | ROB | 48.2 | 69.6% | 33.5 | 0.037 | 0.10 | 5 | \$1.35 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | 731.6% | 0.0% | 8.26 |
| 1017 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | SFD | NLI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | 731.6% | 0.0% | 3.94 |
| 1018 | Exterior LED Bulb Replacing Exterior CFL Bulb | SFD | NLI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior CFL Bulb | 99.1% | 100.0% | 3.94 |
| 1019 | Residential Occupancy Sensors | SFD | ALL | Retrofit | 96.5 | 30.0% | 28.9 | 0.028 | 0.10 | 10 | \$63.50 | Residential Occupancy Sensors | 150.0% | 5.0% | 0.19 |
| 1020 | Electroluminescent Nightlight | SFD | NLI | ROB | 29.7 | 99.1% | 29.5 | 0.007 | 0.00 | 8 | \$1.92 | Replaces standard nightlighting with electroluminescent nightlight | 79.0% | 32.0% | 4.72 |
| 1021 | LED Nightlight | SFD | NLI | ROB | 29.7 | 85.7% | 25.5 | 0.006 | 0.00 | 8 | \$2.51 | Replaces standard nightlighting with LED nightlight | 79.0% | 32.0% | 3.12 |
| 1022 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | LI | ROB | 36.3 | 65.8% | 23.9 | 0.035 | 0.10 | 5 | \$0.61 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 2187.7% | 0.0% | 12.45 |
| 1023 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | LI | ROB | 65.9 | 69.7% | 45.9 | 0.067 | 0.10 | 5 | \$1.64 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 416.7% | 0.0% | 7.86 |
| 1024 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | LI | ROB | 36.3 | 78.5% | 28.5 | 0.041 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 2187.7% | 0.0% | 3.42 |
| 1025 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | LI | ROB | 65.9 | 76.3% | 50.2 | 0.073 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 416.7% | 0.0% | 2.69 |
| 1026 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | LI | ROB | 33.5 | 75.0% | 25.2 | 0.037 | 0.10 | 5 | \$2.71 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1383.8% | 0.0% | 2.90 |
| 1027 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | LI | ROB | 62.9 | 68.3% | 43.0 | 0.062 | 0.10 | 5 | \$5.26 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 0.0% | 0.0% | 2.60 |
| 1028 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | LI | ROB | 33.5 | 83.5% | 28.0 | 0.041 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1383.8% | 0.0% | 2.47 |
| 1029 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | LI | ROB | 62.9 | 75.2% | 47.3 | 0.069 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 0.0% | 0.0% | 2.31 |
| 1030 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | SFD | LI | ROB | 36.3 | 78.5% | 28.5 | 0.041 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | 1252.1% | 100.0% | 3.42 |
| 1031 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | SFD | LI | ROB | 65.9 | 76.3% | 50.2 | 0.073 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | 238.5% | 100.0% | 2.69 |
| 1032 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | SFD | LI | ROB | 33.5 | 83.5% | 28.0 | 0.041 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | 50.7% | 100.0% | 2.47 |
| 1033 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | SFD | LI | ROB | 62.9 | 75.2% | 47.3 | 0.069 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | 0.0% | 100.0% | 2.31 |
| 1034 | CFL Reflector Replacing 65W/75W Reflector | SFD | LI | ROB | 56.4 | 74.4% | 42.0 | 0.061 | 0.10 | 5 | \$2.15 | CFL Reflector Replacing 65W/75W Reflector | 684.9% | 0.0% | 7.33 |
| 1035 | LED Reflector Replacing 65W/75W Reflector | SFD | LI | ROB | 56.4 | 83.8% | 47.3 | 0.069 | 0.10 | 15 | \$9.48 | LED Reflector Replacing 65W/75W Reflector | 684.9% | 0.0% | 4.76 |
| 1036 | LED Reflector Replacing CFL Reflector | SFD | LI | ROB | 56.4 | 83.8% | 47.3 | 0.069 | 0.10 | 15 | \$9.48 | LED Reflector Replacing CFL Reflector | 65.8% | 100.0% | 4.76 |
| 1037 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | SFD | LI | ROB | 48.2 | 69.6% | 33.5 | 0.037 | 0.10 | 5 | \$1.35 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | 731.6% | 0.0% | 8.26 |
| 1038 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | SFD | LI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | 731.6% | 0.0% | 3.94 |
| 1039 | Exterior LED Bulb Replacing Exterior CFL Bulb | SFD | LI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior CFL Bulb | 99.1% | 100.0% | 3.94 |
| 1040 | LED Nightlight | SFD | LI | ROB | 29.7 | 85.7% | 25.5 | 0.006 | 0.00 | 8 | \$2.51 | Replaces standard nightlighting with LED nightlight | 79.0% | 32.0% | 3.12 |
| 1041 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | ALL | NC | 36.3 | 65.8% | 23.9 | 0.035 | 0.10 | 5 | \$0.61 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 3439.8% | 0.0% | 12.45 |

Measure Assumptions - West Penn Power

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|---|--------------------------|---------------|-------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|---|-----------------|---------------|-------------------|
| 1042 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | ALL | NC | 65.9 | 69.7% | 45.9 | 0.067 | 0.10 | 5 | \$1.64 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 655.2% | 0.0% | 7.86 |
| 1043 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | ALL | NC | 36.3 | 78.5% | 28.5 | 0.041 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 3439.8% | 0.0% | 3.42 |
| 1044 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | ALL | NC | 65.9 | 76.3% | 50.2 | 0.073 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 655.2% | 0.0% | 2.69 |
| 1045 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | ALL | NC | 33.5 | 75.0% | 25.2 | 0.037 | 0.10 | 5 | \$2.71 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1449.0% | 0.0% | 2.90 |
| 1046 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | ALL | NC | 62.9 | 68.3% | 43.0 | 0.062 | 0.10 | 5 | \$5.26 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 0.0% | 0.0% | 2.60 |
| 1047 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | ALL | NC | 33.5 | 83.5% | 28.0 | 0.041 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1449.0% | 0.0% | 2.47 |
| 1048 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | ALL | NC | 62.9 | 75.2% | 47.3 | 0.069 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 0.0% | 0.0% | 2.31 |
| 1049 | CFL Reflector Replacing 65W/75W Reflector | SFD | ALL | NC | 56.4 | 74.4% | 42.0 | 0.061 | 0.10 | 5 | \$2.15 | CFL Reflector Replacing 65W/75W Reflector | 756.0% | 0.0% | 7.33 |
| 1050 | LED Reflector Replacing 65W/75W Reflector | SFD | ALL | NC | 56.4 | 83.8% | 47.3 | 0.069 | 0.10 | 15 | \$9.48 | LED Reflector Replacing 65W/75W Reflector | 756.0% | 0.0% | 4.76 |
| 1051 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | SFD | ALL | NC | 48.2 | 69.6% | 33.5 | 0.037 | 0.10 | 5 | \$1.35 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | 840.0% | 0.0% | 8.26 |
| 1052 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | SFD | ALL | NC | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | 840.0% | 0.0% | 3.94 |
| 1053 | Residential Occupancy Sensors | SFD | ALL | NC | 96.5 | 30.0% | 28.9 | 0.028 | 0.10 | 10 | \$63.50 | Residential Occupancy Sensors | 150.0% | 0.0% | 0.19 |
| 1054 | Electroluminescent Nightlight | SFD | ALL | NC | 29.7 | 99.1% | 29.5 | 0.007 | 0.00 | 8 | \$1.92 | Replaces standard nightlighting with electroluminescent nightlight | 79.0% | 0.0% | 4.72 |
| 1055 | LED Nightlight | SFD | ALL | NC | 29.7 | 85.7% | 25.5 | 0.006 | 0.00 | 8 | \$2.51 | Replaces standard nightlighting with LED nightlight | 79.0% | 0.0% | 3.12 |
| 1056 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | NLI | ROB | 36.3 | 65.8% | 23.9 | 0.035 | 0.10 | 5 | \$0.61 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1469.9% | 0.0% | 12.45 |
| 1057 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | NLI | ROB | 65.9 | 69.7% | 45.9 | 0.067 | 0.10 | 5 | \$1.64 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 219.6% | 0.0% | 7.86 |
| 1058 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | NLI | ROB | 36.3 | 78.5% | 28.5 | 0.041 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1469.9% | 0.0% | 3.42 |
| 1059 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | NLI | ROB | 65.9 | 76.3% | 50.2 | 0.073 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 219.6% | 0.0% | 2.69 |
| 1060 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | NLI | ROB | 33.5 | 75.0% | 25.2 | 0.037 | 0.10 | 5 | \$2.71 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 741.2% | 0.0% | 2.90 |
| 1061 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | NLI | ROB | 62.9 | 68.3% | 43.0 | 0.062 | 0.10 | 5 | \$5.26 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 30.9% | 0.0% | 2.60 |
| 1062 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | NLI | ROB | 33.5 | 83.5% | 28.0 | 0.041 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 741.2% | 0.0% | 2.47 |
| 1063 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | NLI | ROB | 62.9 | 75.2% | 47.3 | 0.069 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 30.9% | 0.0% | 2.31 |
| 1064 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | SFA | NLI | ROB | 36.3 | 78.5% | 28.5 | 0.041 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | 841.3% | 100.0% | 3.42 |
| 1065 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | SFA | NLI | ROB | 65.9 | 76.3% | 50.2 | 0.073 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | 125.7% | 100.0% | 2.69 |
| 1066 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | SFA | NLI | ROB | 33.5 | 83.5% | 28.0 | 0.041 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | 27.2% | 100.0% | 2.47 |
| 1067 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | SFA | NLI | ROB | 62.9 | 75.2% | 47.3 | 0.069 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | 1.1% | 100.0% | 2.31 |
| 1068 | CFL Reflector Replacing 65W/75W Reflector | SFA | NLI | ROB | 56.4 | 74.4% | 42.0 | 0.061 | 0.10 | 5 | \$2.15 | CFL Reflector Replacing 65W/75W Reflector | 348.8% | 0.0% | 7.33 |
| 1069 | LED Reflector Replacing 65W/75W Reflector | SFA | NLI | ROB | 56.4 | 83.8% | 47.3 | 0.069 | 0.10 | 15 | \$9.48 | LED Reflector Replacing 65W/75W Reflector | 348.8% | 0.0% | 4.76 |
| 1070 | LED Reflector Replacing CFL Reflector | SFA | NLI | ROB | 56.4 | 83.8% | 47.3 | 0.069 | 0.10 | 15 | \$9.48 | LED Reflector Replacing CFL Reflector | 33.5% | 100.0% | 4.76 |
| 1071 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | SFA | NLI | ROB | 48.2 | 69.6% | 33.5 | 0.037 | 0.10 | 5 | \$1.35 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | 209.0% | 0.0% | 8.26 |
| 1072 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | SFA | NLI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | 209.0% | 0.0% | 3.94 |
| 1073 | Exterior LED Bulb Replacing Exterior CFL Bulb | SFA | NLI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior CFL Bulb | 28.3% | 100.0% | 3.94 |
| 1074 | Residential Occupancy Sensors | SFA | ALL | Retrofit | 96.5 | 30.0% | 28.9 | 0.028 | 0.10 | 10 | \$63.50 | Residential Occupancy Sensors | 150.0% | 5.0% | 0.19 |
| 1075 | Electroluminescent Nightlight | SFA | NLI | ROB | 29.7 | 99.1% | 29.5 | 0.007 | 0.00 | 8 | \$1.92 | Replaces standard nightlighting with electroluminescent nightlight | 42.0% | 32.0% | 4.72 |
| 1076 | LED Nightlight | SFA | NLI | ROB | 29.7 | 85.7% | 25.5 | 0.006 | 0.00 | 8 | \$2.51 | Replaces standard nightlighting with LED nightlight | 42.0% | 32.0% | 3.12 |
| 1077 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | LI | ROB | 36.3 | 65.8% | 23.9 | 0.035 | 0.10 | 5 | \$0.61 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1469.9% | 0.0% | 12.45 |
| 1078 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | LI | ROB | 65.9 | 69.7% | 45.9 | 0.067 | 0.10 | 5 | \$1.64 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 219.6% | 0.0% | 7.86 |
| 1079 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | LI | ROB | 36.3 | 78.5% | 28.5 | 0.041 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1469.9% | 0.0% | 3.42 |
| 1080 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | LI | ROB | 65.9 | 76.3% | 50.2 | 0.073 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 219.6% | 0.0% | 2.69 |
| 1081 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | LI | ROB | 33.5 | 75.0% | 25.2 | 0.037 | 0.10 | 5 | \$2.71 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 741.2% | 0.0% | 2.90 |

Measure Assumptions - West Penn Power

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|---|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|---|-----------------|---------------|-------------------|
| 1082 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | LI | ROB | 62.9 | 68.3% | 43.0 | 0.062 | 0.10 | 5 | \$5.26 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 30.9% | 0.0% | 2.60 |
| 1083 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | LI | ROB | 33.5 | 83.5% | 28.0 | 0.041 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 741.2% | 0.0% | 2.47 |
| 1084 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | LI | ROB | 62.9 | 75.2% | 47.3 | 0.069 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 30.9% | 0.0% | 2.31 |
| 1085 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | SFA | LI | ROB | 36.3 | 78.5% | 28.5 | 0.041 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | 841.3% | 100.0% | 3.42 |
| 1086 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | SFA | LI | ROB | 65.9 | 76.3% | 50.2 | 0.073 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | 125.7% | 100.0% | 2.69 |
| 1087 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | SFA | LI | ROB | 33.5 | 83.5% | 28.0 | 0.041 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | 27.2% | 100.0% | 2.47 |
| 1088 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | SFA | LI | ROB | 62.9 | 75.2% | 47.3 | 0.069 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | 1.1% | 100.0% | 2.31 |
| 1089 | CFL Reflector Replacing 65W/75W Reflector | SFA | LI | ROB | 56.4 | 74.4% | 42.0 | 0.061 | 0.10 | 5 | \$2.15 | CFL Reflector Replacing 65W/75W Reflector | 348.8% | 0.0% | 7.33 |
| 1090 | LED Reflector Replacing 65W/75W Reflector | SFA | LI | ROB | 56.4 | 83.8% | 47.3 | 0.069 | 0.10 | 15 | \$9.48 | LED Reflector Replacing 65W/75W Reflector | 348.8% | 0.0% | 4.76 |
| 1091 | LED Reflector Replacing CFL Reflector | SFA | LI | ROB | 56.4 | 83.8% | 47.3 | 0.069 | 0.10 | 15 | \$9.48 | LED Reflector Replacing CFL Reflector | 33.5% | 100.0% | 4.76 |
| 1092 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | SFA | LI | ROB | 48.2 | 69.6% | 33.5 | 0.037 | 0.10 | 5 | \$1.35 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | 209.0% | 0.0% | 8.26 |
| 1093 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | SFA | LI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | 209.0% | 0.0% | 3.94 |
| 1094 | Exterior LED Bulb Replacing Exterior CFL Bulb | SFA | LI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior CFL Bulb | 28.3% | 100.0% | 3.94 |
| 1095 | LED Nightlight | SFA | LI | ROB | 29.7 | 85.7% | 25.5 | 0.006 | 0.00 | 8 | \$2.51 | Replaces standard nightlighting with LED nightlight | 42.0% | 32.0% | 3.12 |
| 1096 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | ALL | NC | 36.3 | 65.8% | 23.9 | 0.035 | 0.10 | 5 | \$0.61 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 2311.2% | 0.0% | 12.45 |
| 1097 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | ALL | NC | 65.9 | 69.7% | 45.9 | 0.067 | 0.10 | 5 | \$1.64 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 345.3% | 0.0% | 7.86 |
| 1098 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | ALL | NC | 36.3 | 78.5% | 28.5 | 0.041 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 2311.2% | 0.0% | 3.42 |
| 1099 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | ALL | NC | 65.9 | 76.3% | 50.2 | 0.073 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 345.3% | 0.0% | 2.69 |
| 1100 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | ALL | NC | 33.5 | 75.0% | 25.2 | 0.037 | 0.10 | 5 | \$2.71 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 776.2% | 0.0% | 2.90 |
| 1101 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | ALL | NC | 62.9 | 68.3% | 43.0 | 0.062 | 0.10 | 5 | \$5.26 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 32.3% | 0.0% | 2.60 |
| 1102 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | ALL | NC | 33.5 | 83.5% | 28.0 | 0.041 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 776.2% | 0.0% | 2.47 |
| 1103 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | ALL | NC | 62.9 | 75.2% | 47.3 | 0.069 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 32.3% | 0.0% | 2.31 |
| 1104 | CFL Reflector Replacing 65W/75W Reflector | SFA | ALL | NC | 56.4 | 74.4% | 42.0 | 0.061 | 0.10 | 5 | \$2.15 | CFL Reflector Replacing 65W/75W Reflector | 385.0% | 0.0% | 7.33 |
| 1105 | LED Reflector Replacing 65W/75W Reflector | SFA | ALL | NC | 56.4 | 83.8% | 47.3 | 0.069 | 0.10 | 15 | \$9.48 | LED Reflector Replacing 65W/75W Reflector | 385.0% | 0.0% | 4.76 |
| 1106 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | SFA | ALL | NC | 48.2 | 69.6% | 33.5 | 0.037 | 0.10 | 5 | \$1.35 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | 240.0% | 0.0% | 8.26 |
| 1107 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | SFA | ALL | NC | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | 209.0% | 0.0% | 3.94 |
| 1108 | Residential Occupancy Sensors | SFA | ALL | NC | 96.5 | 30.0% | 28.9 | 0.028 | 0.10 | 10 | \$63.50 | Residential Occupancy Sensors | 150.0% | 0.0% | 0.19 |
| 1109 | Electroluminescent Nightlight | SFA | ALL | NC | 29.7 | 99.1% | 29.5 | 0.007 | 0.00 | 8 | \$1.92 | Replaces standard nightlighting with electroluminescent nightlight | 42.0% | 0.0% | 4.72 |
| 1110 | LED Nightlight | SFA | ALL | NC | 29.7 | 85.7% | 25.5 | 0.006 | 0.00 | 8 | \$2.51 | Replaces standard nightlighting with LED nightlight | 42.0% | 0.0% | 3.12 |
| 1111 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | NLI | ROB | 36.3 | 65.8% | 23.9 | 0.035 | 0.10 | 5 | \$0.61 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 918.9% | 0.0% | 12.45 |
| 1112 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | NLI | ROB | 65.9 | 69.7% | 45.9 | 0.067 | 0.10 | 5 | \$1.64 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 149.6% | 0.0% | 7.86 |
| 1113 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | NLI | ROB | 36.3 | 78.5% | 28.5 | 0.041 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 918.9% | 0.0% | 3.42 |
| 1114 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | NLI | ROB | 65.9 | 76.3% | 50.2 | 0.073 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 149.6% | 0.0% | 2.69 |
| 1115 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | NLI | ROB | 33.5 | 75.0% | 25.2 | 0.037 | 0.10 | 5 | \$2.71 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 317.7% | 0.0% | 2.90 |
| 1116 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | NLI | ROB | 62.9 | 68.3% | 43.0 | 0.062 | 0.10 | 5 | \$5.26 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 3.2% | 0.0% | 2.60 |
| 1117 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | NLI | ROB | 33.5 | 83.5% | 28.0 | 0.041 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 317.7% | 0.0% | 2.47 |
| 1118 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | NLI | ROB | 62.9 | 75.2% | 47.3 | 0.069 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 3.2% | 0.0% | 2.31 |
| 1119 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | MF | NLI | ROB | 36.3 | 78.5% | 28.5 | 0.041 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | 525.9% | 100.0% | 3.42 |
| 1120 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | MF | NLI | ROB | 65.9 | 76.3% | 50.2 | 0.073 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | 85.6% | 100.0% | 2.69 |
| 1121 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | MF | NLI | ROB | 33.5 | 83.5% | 28.0 | 0.041 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | 11.6% | 100.0% | 2.47 |

Measure Assumptions - West Penn Power

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|---|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|---|-----------------|---------------|-------------------|
| 1122 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | MF | NLI | ROB | 62.9 | 75.2% | 47.3 | 0.069 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | 0.1% | 100.0% | 2.31 |
| 1123 | CFL Reflector Replacing 65W/75W Reflector | MF | NLI | ROB | 56.4 | 74.4% | 42.0 | 0.061 | 0.10 | 5 | \$2.15 | CFL Reflector Replacing 65W/75W Reflector | 76.1% | 0.0% | 7.33 |
| 1124 | LED Reflector Replacing 65W/75W Reflector | MF | NLI | ROB | 56.4 | 83.8% | 47.3 | 0.069 | 0.10 | 15 | \$9.48 | LED Reflector Replacing 65W/75W Reflector | 76.1% | 0.0% | 4.76 |
| 1125 | LED Reflector Replacing CFL Reflector | MF | NLI | ROB | 56.4 | 83.8% | 47.3 | 0.069 | 0.10 | 15 | \$9.48 | LED Reflector Replacing CFL Reflector | 7.3% | 100.0% | 4.76 |
| 1126 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | MF | NLI | ROB | 48.2 | 69.6% | 33.5 | 0.037 | 0.10 | 5 | \$1.35 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | 104.5% | 0.0% | 8.26 |
| 1127 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | MF | NLI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | 104.5% | 0.0% | 3.94 |
| 1128 | Exterior LED Bulb Replacing Exterior CFL Bulb | MF | NLI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior CFL Bulb | 14.2% | 100.0% | 3.94 |
| 1129 | Residential Occupancy Sensors | MF | ALL | Retrofit | 96.5 | 30.0% | 28.9 | 0.028 | 0.10 | 10 | \$63.50 | Residential Occupancy Sensors | 100.0% | 5.0% | 0.19 |
| 1130 | Electroluminescent Nightlight | MF | NLI | ROB | 29.7 | 99.1% | 29.5 | 0.007 | 0.00 | 8 | \$1.92 | Replaces standard nightlighting with electroluminescent nightlight | 18.0% | 32.0% | 4.72 |
| 1131 | LED Nightlight | MF | NLI | ROB | 29.7 | 85.7% | 25.5 | 0.006 | 0.00 | 8 | \$2.51 | Replaces standard nightlighting with LED nightlight | 18.0% | 32.0% | 3.12 |
| 1132 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | LI | ROB | 36.3 | 65.8% | 23.9 | 0.035 | 0.10 | 5 | \$0.61 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 918.9% | 0.0% | 12.45 |
| 1133 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | LI | ROB | 65.9 | 69.7% | 45.9 | 0.067 | 0.10 | 5 | \$1.64 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 149.6% | 0.0% | 7.86 |
| 1134 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | LI | ROB | 36.3 | 78.5% | 28.5 | 0.041 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 918.9% | 0.0% | 3.42 |
| 1135 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | LI | ROB | 65.9 | 76.3% | 50.2 | 0.073 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 149.6% | 0.0% | 2.69 |
| 1136 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | LI | ROB | 33.5 | 75.0% | 25.2 | 0.037 | 0.10 | 5 | \$2.71 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 317.7% | 0.0% | 2.90 |
| 1137 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | LI | ROB | 62.9 | 68.3% | 43.0 | 0.062 | 0.10 | 5 | \$5.26 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 3.2% | 0.0% | 2.60 |
| 1138 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | LI | ROB | 33.5 | 83.5% | 28.0 | 0.041 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 317.7% | 0.0% | 2.47 |
| 1139 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | LI | ROB | 62.9 | 75.2% | 47.3 | 0.069 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 3.2% | 0.0% | 2.31 |
| 1140 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | MF | LI | ROB | 36.3 | 78.5% | 28.5 | 0.041 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | 525.9% | 100.0% | 3.42 |
| 1141 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | MF | LI | ROB | 65.9 | 76.3% | 50.2 | 0.073 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | 85.6% | 100.0% | 2.69 |
| 1142 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | MF | LI | ROB | 33.5 | 83.5% | 28.0 | 0.041 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | 11.6% | 100.0% | 2.47 |
| 1143 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | MF | LI | ROB | 62.9 | 75.2% | 47.3 | 0.069 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | 0.1% | 100.0% | 2.31 |
| 1144 | CFL Reflector Replacing 65W/75W Reflector | MF | LI | ROB | 56.4 | 74.4% | 42.0 | 0.061 | 0.10 | 5 | \$2.15 | CFL Reflector Replacing 65W/75W Reflector | 76.1% | 0.0% | 7.33 |
| 1145 | LED Reflector Replacing 65W/75W Reflector | MF | LI | ROB | 56.4 | 83.8% | 47.3 | 0.069 | 0.10 | 15 | \$9.48 | LED Reflector Replacing 65W/75W Reflector | 76.1% | 0.0% | 4.76 |
| 1146 | LED Reflector Replacing CFL Reflector | MF | LI | ROB | 56.4 | 83.8% | 47.3 | 0.069 | 0.10 | 15 | \$9.48 | LED Reflector Replacing CFL Reflector | 7.3% | 100.0% | 4.76 |
| 1147 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | MF | LI | ROB | 48.2 | 69.6% | 33.5 | 0.037 | 0.10 | 5 | \$1.35 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | 104.5% | 0.0% | 8.26 |
| 1148 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | MF | LI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | 104.5% | 0.0% | 3.94 |
| 1149 | Exterior LED Bulb Replacing Exterior CFL Bulb | MF | LI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior CFL Bulb | 14.2% | 100.0% | 3.94 |
| 1150 | LED Nightlight | MF | LI | ROB | 29.7 | 85.7% | 25.5 | 0.006 | 0.00 | 8 | \$2.51 | Replaces standard nightlighting with LED nightlight | 18.0% | 32.0% | 3.12 |
| 1151 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | ALL | NC | 36.3 | 65.8% | 23.9 | 0.035 | 0.10 | 5 | \$0.61 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1444.8% | 0.0% | 12.45 |
| 1152 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | ALL | NC | 65.9 | 69.7% | 45.9 | 0.067 | 0.10 | 5 | \$1.64 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 235.2% | 0.0% | 7.86 |
| 1153 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | ALL | NC | 36.3 | 78.5% | 28.5 | 0.041 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1444.8% | 0.0% | 3.42 |
| 1154 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | ALL | NC | 65.9 | 76.3% | 50.2 | 0.073 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 235.2% | 0.0% | 2.69 |
| 1155 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | ALL | NC | 33.5 | 75.0% | 25.2 | 0.037 | 0.10 | 5 | \$2.71 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 332.6% | 0.0% | 2.90 |
| 1156 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | ALL | NC | 62.9 | 68.3% | 43.0 | 0.062 | 0.10 | 5 | \$5.26 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 3.4% | 0.0% | 2.60 |
| 1157 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | ALL | NC | 33.5 | 83.5% | 28.0 | 0.041 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 332.6% | 0.0% | 2.47 |
| 1158 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | ALL | NC | 62.9 | 75.2% | 47.3 | 0.069 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 3.4% | 0.0% | 2.31 |
| 1159 | CFL Reflector Replacing 65W/75W Reflector | MF | ALL | NC | 56.4 | 74.4% | 42.0 | 0.061 | 0.10 | 5 | \$2.15 | CFL Reflector Replacing 65W/75W Reflector | 84.0% | 0.0% | 7.33 |
| 1160 | LED Reflector Replacing 65W/75W Reflector | MF | ALL | NC | 56.4 | 83.8% | 47.3 | 0.069 | 0.10 | 15 | \$9.48 | LED Reflector Replacing 65W/75W Reflector | 84.0% | 0.0% | 4.76 |
| 1161 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | MF | ALL | NC | 48.2 | 69.6% | 33.5 | 0.037 | 0.10 | 5 | \$1.35 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | 120.0% | 0.0% | 8.26 |
| 1162 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | MF | ALL | NC | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | 120.0% | 0.0% | 3.94 |
| 1163 | Residential Occupancy Sensors | MF | ALL | NC | 96.5 | 30.0% | 28.9 | 0.028 | 0.10 | 10 | \$63.50 | Residential Occupancy Sensors | 150.0% | 0.0% | 0.19 |

Measure Assumptions - West Penn Power

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|---|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|--|-----------------|---------------|-------------------|
| 1164 | Electroluminescent Nightlight | MF | ALL | NC | 29.7 | 99.1% | 29.5 | 0.007 | 0.00 | 8 | \$1.92 | Replaces standard nightlighting with electroluminescent nightlight | 18.0% | 0.0% | 4.72 |
| 1165 | LED Nightlight | MF | ALL | NC | 29.7 | 85.7% | 25.5 | 0.006 | 0.00 | 8 | \$2.51 | Replaces standard nightlighting with LED nightlight | 18.0% | 0.0% | 3.12 |
| 2000 | HVAC Equipment | | | | | | | | | | | | | | |
| 2001 | Central AC Maintenance (10.4 SEER to 11 SEER) | SFD | NLI | Retrofit | 1,869.0 | 1.5% | 28.0 | 0.124 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of central AC units in homes with central air conditioning | 60.0% | 80.0% | 0.38 |
| 2002 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) | SFD | NLI | ROB | 1,536.0 | 8.6% | 132.0 | 0.209 | 0.65 | 14 | \$1,407.82 | Installation of 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 60.0% | 16.0% | 0.11 |
| 2003 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) | SFD | NLI | ROB | 1,536.0 | 12.2% | 188.0 | 0.294 | 0.65 | 14 | \$2,588.05 | Installation of 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 60.0% | 16.0% | 0.08 |
| 2004 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) - with proper sizing | SFD | NLI | ROB | 1,536.0 | 9.9% | 152.0 | 0.261 | 0.65 | 14 | \$1,319.00 | Installation of properly sized 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 60.0% | 16.0% | 0.14 |
| 2005 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) - with proper sizing | SFD | NLI | ROB | 1,536.0 | 13.5% | 208.0 | 0.340 | 0.65 | 14 | \$2,499.23 | Installation of properly sized 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 60.0% | 16.0% | 0.10 |
| 2006 | Air Source Heat Pump Maintenance (12.3 SEER to 13 SEER / 7.3 hspf to 7.7 hspf) | SFD | NLI | Retrofit | 8,060.0 | 5.7% | 460.0 | 0.142 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of air-source heat pump in homes with air-source heat pumps | 4.9% | 67.0% | 1.58 |
| 2007 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 15 SEER / 8.5 hspf) | SFD | NLI | ROB | 7,070.0 | 3.4% | 238.0 | 0.052 | 0.65 | 12 | \$1,116.43 | Installation of 15 SEER / 8.5 hspf instead of standard air-source heat pump in homes with heat pumps | 4.9% | 16.0% | 0.10 |
| 2008 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 16 SEER / 9.0 hspf) | SFD | NLI | ROB | 7,070.0 | 8.8% | 624.0 | 0.085 | 0.65 | 12 | \$1,381.27 | Installation of 16 SEER / 9.0 hspf instead of standard air-source heat pump in homes with heat pumps | 4.9% | 16.0% | 0.21 |
| 2009 | ENERGY STAR Ground Source Heat Pump (14 SEER / 8.0 hspf to 17.1 EER / 3.6 COP) | SFD | NLI | ROB | 7,070.0 | 18.8% | 1,329.0 | 0.388 | 0.65 | 30 | \$12,709.14 | Installation of 17.1 EER / 3.6 COP ground source heat pump instead of standard air-source heat pump in homes with heat pumps | 4.9% | 16.0% | 0.06 |
| 2010 | ENERGY STAR Ground Source Heat Pump (14 SEER / 8.0 hspf to 17.1 EER / 3.6 COP) - with desuperheater | SFD | NLI | ROB | 7,070.0 | 26.8% | 1,896.0 | 0.388 | 0.65 | 30 | \$12,071.37 | Installation of 17.1 EER / 3.6 COP ground source heat pump (with a desuperheater) instead of standard air-source heat pump in homes with heat pumps | 4.9% | 16.0% | 0.09 |
| 2011 | ENERGY STAR Air Source Heat Pump (Elec Furnace / CAC to 16 SEER / 9.0 hspf) | SFD | NLI | ROB | 16,345.0 | 60.6% | 9,899.0 | 0.211 | 0.65 | 12 | \$3,158.48 | Installation of 16 SEER / 9.0 hspf instead of electric furnace in homes with electric furnaces | 6.4% | 0.0% | 1.29 |
| 2012 | ENERGY STAR Ground Source Heat Pump (Electric Furnace / CAC to 17.1 EER / 3.6 COP) - with desuperheater | SFD | NLI | ROB | 16,345.0 | 60.6% | 9,899.0 | 0.211 | 0.65 | 30 | \$17,454.97 | Installation of 17.1 EER / 3.6 COP ground source heat pump (with a desuperheater) instead of electric furnace in homes with electric furnaces | 6.4% | 0.0% | 0.28 |
| 2013 | High Efficiency Furnace Fan (on existing furnace) - electric heating and central AC | SFD | ALL | Retrofit | 16,345.0 | 2.7% | 446.0 | 0.176 | 0.65 | 18 | \$360.00 | Installation of high efficiency furnace fan on existing furnace in homes with electric furnaces | 17.0% | 34.0% | 0.81 |
| 2014 | High Efficiency Furnace Fan (on existing furnace) - non-electric heating and central AC | SFD | ALL | Retrofit | 1,841.0 | 24.2% | 446.0 | 0.176 | 0.65 | 18 | \$360.00 | Installation of high efficiency furnace fan on existing furnace in homes with non-electric furnaces | 49.0% | 34.0% | 0.81 |
| 2015 | Furnace Whistle - electric heating and central AC | SFD | NLI | Retrofit | 12,832.5 | 0.5% | 58.3 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on electric furnaces in homes with electric forced air heating | 17.0% | 10.0% | 49.08 |
| 2016 | Furnace Whistle - non-electric heating and central AC | SFD | NLI | Retrofit | 1,841.0 | 0.8% | 15.4 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on non-electric furnaces in homes with non-electric forced air heating | 49.0% | 10.0% | 29.61 |
| 2017 | Ductless Mini-Split Heat Pump (16 SEER / 9.0 hspf) - replacing baseboard/room AC | SFD | ALL | ROB | 15,668.0 | 61.3% | 9,600.0 | 1.388 | 0.30 | 15 | \$3,570.80 | Installation of a 16 SEER / 9.0 hspf ductless minisplit heat pump to replace baseboard heating in homes with baseboard heating and room air conditioning | 20.1% | 0.0% | 1.40 |
| 2018 | Ductless Mini-Split Air Conditioner (16 SEER) replacing room AC | SFD | ALL | ROB | 1,726.0 | 29.6% | 511.0 | 1.339 | 0.30 | 15 | \$3,570.80 | Installation of a 16 SEER / 9.0 hspf ductless minisplit air conditioner instead of standard room air conditioner in homes with room air conditioning and any form of electric heating other than baseboard heating | 20.1% | 15.0% | 0.15 |
| 2019 | High Efficiency Room Air Conditioner (11 CEER to 12 CEER) | SFD | NLI | ROB | 1,726.0 | 0.5% | 8.1 | 0.061 | 0.30 | 9 | \$40.00 | Installation of a high efficiency room air conditioner instead of standard room air conditioner in homes with room air conditioning and any form of electric heating other than baseboard heating | 56.8% | 15.0% | 0.28 |
| 2020 | Room AC Retirement | SFD | ALL | Retrofit | 1,750.2 | 8.5% | 148.0 | 0.640 | 0.30 | 4 | \$60.00 | Retirement of supplemental room air conditioners (not primary or secondary) in homes with room air conditioners | 16.0% | 0.0% | 1.17 |
| 2021 | Programmable Thermostat (electric heating and air conditioning) | SFD | NLI | Retrofit | 14,533.8 | 3.4% | 499.0 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with electric heating and air conditioning | 26.7% | 57.0% | 2.95 |
| 2022 | Smart Thermostat (electric heating and air conditioning) | SFD | NLI | Retrofit | 14,533.8 | 10.5% | 1,520.6 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with electric heating and air conditioning | 26.7% | 57.0% | 2.31 |
| 2023 | Programmable Thermostat (non-electric heating and air conditioning) | SFD | NLI | Retrofit | 1,841.0 | 2.0% | 36.8 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with non-electric heating and air conditioning | 65.3% | 57.0% | 0.23 |
| 2024 | Smart Thermostat (non-electric heating and air conditioning) | SFD | NLI | Retrofit | 1,841.0 | 13.5% | 247.9 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with non-electric heating and air conditioning | 65.3% | 57.0% | 0.40 |
| 2025 | Residential Whole House Fan | SFD | ALL | Retrofit | 1,841.0 | 10.8% | 199.0 | 0.000 | 0.65 | 15 | \$533.86 | Installation of residential whole house fan in homes with air conditioning | 92.0% | 9.1% | 0.19 |
| 2026 | Central AC Maintenance (10.4 SEER to 11 SEER) | SFD | LI | Retrofit | 1,869.0 | 1.5% | 28.0 | 0.124 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of central AC units in homes with central air conditioning | 60.0% | 80.0% | 0.38 |

Measure Assumptions - West Penn Power

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|---|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|---|-----------------|---------------|-------------------|
| 2027 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) | SFD | LI | ROB | 1,536.0 | 8.6% | 132.0 | 0.209 | 0.65 | 14 | \$1,407.82 | Installation of 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 60.0% | 16.0% | 0.11 |
| 2028 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) | SFD | LI | ROB | 1,536.0 | 12.2% | 188.0 | 0.294 | 0.65 | 14 | \$2,588.05 | Installation of 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 60.0% | 16.0% | 0.08 |
| 2029 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) - with proper sizing | SFD | LI | ROB | 1,536.0 | 9.9% | 152.0 | 0.261 | 0.65 | 14 | \$1,319.00 | Installation of properly sized 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 60.0% | 16.0% | 0.14 |
| 2030 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) - with proper sizing | SFD | LI | ROB | 1,536.0 | 13.5% | 208.0 | 0.340 | 0.65 | 14 | \$2,499.23 | Installation of properly sized 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 60.0% | 16.0% | 0.10 |
| 2031 | Air Source Heat Pump Maintenance (12.3 SEER to 13 SEER / 7.3 hspf to 7.7 hspf) | SFD | LI | Retrofit | 8,060.0 | 5.7% | 460.0 | 0.142 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of air-source heat pump in homes with air-source heat pumps | 4.9% | 67.0% | 1.58 |
| 2032 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 15 SEER / 8.5 hspf) | SFD | LI | ROB | 7,070.0 | 3.4% | 238.0 | 0.052 | 0.65 | 12 | \$1,116.43 | Installation of 15 SEER / 8.5 hspf instead of standard air-source heat pump in homes with heat pumps | 4.9% | 16.0% | 0.10 |
| 2033 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 16 SEER / 9.0 hspf) | SFD | LI | ROB | 7,070.0 | 8.8% | 624.0 | 0.085 | 0.65 | 12 | \$1,381.27 | Installation of 16 SEER / 9.0 hspf instead of standard air-source heat pump in homes with heat pumps | 4.9% | 16.0% | 0.21 |
| 2034 | ENERGY STAR Air Source Heat Pump (Elec Furnace / CAC to 16 SEER / 9.0 hspf) | SFD | LI | ROB | 16,345.0 | 60.6% | 9,899.0 | 0.211 | 0.65 | 12 | \$3,158.48 | Installation of 16 SEER / 9.0 hspf instead of electric furnace in homes with electric furnaces | 6.4% | 0.0% | 1.29 |
| 2035 | Furnace Whistle - electric heating and central AC | SFD | LI | Retrofit | 12,832.5 | 0.5% | 58.3 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on electric furnaces in homes with electric forced air heating | 17.0% | 10.0% | 48.72 |
| 2036 | Furnace Whistle - non-electric heating and central AC | SFD | LI | Retrofit | 1,841.0 | 0.8% | 15.4 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on non-electric furnaces in homes with non-electric forced air heating | 49.0% | 10.0% | 29.07 |
| 2037 | High Efficiency Room Air Conditioner (11 CEER to 12 CEER) | SFD | LI | ROB | 1,726.0 | 0.5% | 8.1 | 0.061 | 0.30 | 9 | \$40.00 | Installation of a high efficiency room air conditioner instead of standard room air conditioner in homes with room air conditioning and any form of electric heating other than baseboard heating | 56.8% | 15.0% | 0.28 |
| 2038 | Programmable Thermostat (electric heating and air conditioning) | SFD | LI | Retrofit | 14,533.8 | 3.4% | 499.0 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with electric heating and air conditioning | 26.7% | 57.0% | 2.95 |
| 2039 | Smart Thermostat (electric heating and air conditioning) | SFD | LI | Retrofit | 14,533.8 | 10.5% | 1,520.6 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with electric heating and air conditioning | 26.7% | 57.0% | 2.31 |
| 2040 | Programmable Thermostat (non-electric heating and air conditioning) | SFD | LI | Retrofit | 1,841.0 | 2.0% | 36.8 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with non-electric heating and air conditioning | 65.3% | 57.0% | 0.23 |
| 2041 | Smart Thermostat (non-electric heating and air conditioning) | SFD | LI | Retrofit | 1,841.0 | 13.5% | 247.9 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with non-electric heating and air conditioning | 65.3% | 57.0% | 0.40 |
| 2042 | Central AC Maintenance (10.4 SEER to 11 SEER) | SFA | NLI | Retrofit | 1,677.0 | 2.0% | 33.0 | 0.108 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of central AC units in homes with central air conditioning | 60.0% | 80.0% | 0.36 |
| 2043 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) | SFA | NLI | ROB | 1,351.0 | 9.5% | 129.0 | 0.162 | 0.65 | 14 | \$1,319.00 | Installation of 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 60.0% | 16.0% | 0.10 |
| 2044 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) | SFA | NLI | ROB | 1,351.0 | 13.4% | 181.0 | 0.233 | 0.65 | 14 | \$2,499.23 | Installation of 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 60.0% | 16.0% | 0.07 |
| 2045 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) - with proper sizing | SFA | NLI | ROB | 1,351.0 | 11.0% | 149.0 | 0.204 | 0.65 | 14 | \$1,230.23 | Installation of properly sized 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 60.0% | 16.0% | 0.13 |
| 2046 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) - with proper sizing | SFA | NLI | ROB | 1,351.0 | 15.0% | 202.0 | 0.270 | 0.65 | 14 | \$2,410.41 | Installation of properly sized 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 60.0% | 16.0% | 0.09 |
| 2047 | Air Source Heat Pump Maintenance (12.3 SEER to 13 SEER / 7.3 hspf to 7.7 hspf) | SFA | NLI | Retrofit | 6,011.0 | 6.7% | 401.0 | 0.135 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of air-source heat pump in homes with air-source heat pumps | 4.9% | 67.0% | 1.41 |
| 2048 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 15 SEER / 8.5 hspf) | SFA | NLI | ROB | 5,195.0 | 3.5% | 183.0 | 0.042 | 0.65 | 12 | \$1,004.75 | Installation of 15 SEER / 8.5 hspf instead of standard air-source heat pump in homes with heat pumps | 4.9% | 16.0% | 0.09 |
| 2049 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 16 SEER / 9.0 hspf) | SFA | NLI | ROB | 5,195.0 | 9.3% | 483.0 | 0.070 | 0.65 | 12 | \$1,269.59 | Installation of 16 SEER / 9.0 hspf instead of standard air-source heat pump in homes with heat pumps | 4.9% | 16.0% | 0.17 |
| 2050 | ENERGY STAR Air Source Heat Pump (Elec Furnace / CAC to 16 SEER / 9.0 hspf) | SFA | NLI | ROB | 11,753.0 | 59.9% | 7,041.0 | 0.167 | 0.65 | 12 | \$2,829.74 | Installation of 16 SEER / 9.0 hspf instead of electric furnace in homes with electric furnaces | 6.4% | 0.0% | 1.03 |
| 2051 | High Efficiency Furnace Fan (on existing furnace) - electric heating and central AC | SFA | ALL | Retrofit | 11,753.0 | 3.8% | 446.0 | 0.176 | 0.65 | 18 | \$360.00 | Installation of high efficiency furnace fan on existing furnace in homes with electric furnaces | 17.0% | 34.0% | 0.81 |
| 2052 | High Efficiency Furnace Fan (on existing furnace) - non-electric heating and central AC | SFA | ALL | Retrofit | 1,644.0 | 27.1% | 446.0 | 0.176 | 0.65 | 18 | \$360.00 | Installation of high efficiency furnace fan on existing furnace in homes with non-electric furnaces | 49.0% | 34.0% | 0.81 |
| 2053 | Furnace Whistle - electric heating and central AC | SFA | NLI | Retrofit | 9,332.1 | 0.6% | 58.3 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on electric furnaces in homes with electric forced air heating | 17.0% | 10.0% | 49.08 |
| 2054 | Furnace Whistle - non-electric heating and central AC | SFA | NLI | Retrofit | 1,644.0 | 0.9% | 15.4 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on non-electric furnaces in homes with non-electric forced air heating | 49.0% | 10.0% | 29.61 |
| 2055 | Ductless Mini-Split Heat Pump (16 SEER / 9.0 hspf) - replacing baseboard/room AC | SFA | ALL | ROB | 11,120.0 | 61.0% | 6,782.0 | 1.306 | 0.30 | 15 | \$2,856.64 | Installation of a 16 SEER / 9.0 hspf ductless minisplit heat pump to replace baseboard heating in homes with baseboard heating and room air conditioning | 33.4% | 0.0% | 1.26 |

Measure Assumptions - West Penn Power

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|--|-----------------|---------------|-------------------|
| 2056 | Ductless Mini-Split Air Conditioner (16 SEER) replacing room AC | SFA | ALL | ROB | 1,594.0 | 36.4% | 581.0 | 1.320 | 0.30 | 15 | \$2,856.64 | Installation of a 16 SEER / 9.0 hspf ductless minisplit air conditioner instead of standard room air conditioner in homes with room air conditioning and any form of electric heating other than baseboard heating | 33.4% | 15.0% | 0.20 |
| 2057 | High Efficiency Room Air Conditioner (11 CEER to 12 CEER) | SFA | NLI | ROB | 1,594.0 | 0.5% | 8.1 | 0.061 | 0.30 | 9 | \$40.00 | Installation of a high efficiency room air conditioner instead of standard room air conditioner in homes with room air conditioning and any form of electric heating other than baseboard heating | 72.9% | 15.0% | 0.28 |
| 2058 | Room AC Retirement | SFA | ALL | Retrofit | 1,618.4 | 9.1% | 148.0 | 0.640 | 0.30 | 4 | \$60.00 | Retirement of supplemental room air conditioners (not primary or secondary) in homes with room air conditioners | 16.0% | 0.0% | 1.17 |
| 2059 | Programmable Thermostat (electric heating and air conditioning) | SFA | NLI | Retrofit | 10,404.8 | 3.4% | 351.7 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with electric heating and air conditioning | 26.7% | 57.0% | 2.08 |
| 2060 | Smart Thermostat (electric heating and air conditioning) | SFA | NLI | Retrofit | 10,404.8 | 10.6% | 1,107.0 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with electric heating and air conditioning | 26.7% | 57.0% | 1.68 |
| 2061 | Programmable Thermostat (non-electric heating and air conditioning) | SFA | NLI | Retrofit | 1,644.0 | 2.0% | 32.9 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with non-electric heating and air conditioning | 65.3% | 57.0% | 0.21 |
| 2062 | Smart Thermostat (non-electric heating and air conditioning) | SFA | NLI | Retrofit | 1,644.0 | 13.7% | 225.4 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with non-electric heating and air conditioning | 65.3% | 57.0% | 0.36 |
| 2063 | Residential Whole House Fan | SFA | ALL | Retrofit | 1,644.0 | 9.3% | 152.3 | 0.000 | 0.65 | 15 | \$533.86 | Installation of residential whole house fan in homes with air conditioning | 92.0% | 9.1% | 0.14 |
| 2064 | Central AC Maintenance (10.4 SEER to 11 SEER) | SFA | LI | Retrofit | 1,677.0 | 2.0% | 33.0 | 0.108 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of central AC units in homes with central air conditioning | 60.0% | 80.0% | 0.36 |
| 2065 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) | SFA | LI | ROB | 1,351.0 | 9.5% | 129.0 | 0.162 | 0.65 | 14 | \$1,319.00 | Installation of 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 60.0% | 16.0% | 0.10 |
| 2066 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) | SFA | LI | ROB | 1,351.0 | 13.4% | 181.0 | 0.233 | 0.65 | 14 | \$2,499.23 | Installation of 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 60.0% | 16.0% | 0.07 |
| 2067 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) - with proper sizing | SFA | LI | ROB | 1,351.0 | 11.0% | 149.0 | 0.204 | 0.65 | 14 | \$1,230.23 | Installation of properly sized 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 60.0% | 16.0% | 0.13 |
| 2068 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) - with proper sizing | SFA | LI | ROB | 1,351.0 | 15.0% | 202.0 | 0.270 | 0.65 | 14 | \$2,410.41 | Installation of properly sized 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 60.0% | 16.0% | 0.09 |
| 2069 | Air Source Heat Pump Maintenance (12.3 SEER to 13 SEER / 7.3 hspf to 7.7 hspf) | SFA | LI | ROB | 6,011.0 | 6.7% | 401.0 | 0.135 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of air-source heat pump in homes with air-source heat pumps | 4.9% | 67.0% | 1.41 |
| 2070 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 15 SEER / 8.5 hspf) | SFA | LI | ROB | 5,195.0 | 3.5% | 183.0 | 0.070 | 0.65 | 12 | \$1,004.75 | Installation of 15 SEER / 8.5 hspf instead of standard air-source heat pump in homes with heat pumps | 4.9% | 16.0% | 0.10 |
| 2071 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 16 SEER / 9.0 hspf) | SFA | LI | ROB | 5,195.0 | 9.3% | 483.0 | 0.070 | 0.65 | 12 | \$1,269.59 | Installation of 16 SEER / 9.0 hspf instead of standard air-source heat pump in homes with heat pumps | 4.9% | 16.0% | 0.17 |
| 2072 | ENERGY STAR Air Source Heat Pump (Elec Furnace / CAC to 16 SEER / 9.0 hspf) | SFA | LI | ROB | 11,753.0 | 59.9% | 7,041.0 | 0.167 | 0.65 | 12 | \$2,829.74 | Installation of 16 SEER / 9.0 hspf instead of electric furnace in homes with electric furnaces | 6.4% | 0.0% | 1.03 |
| 2073 | Furnace Whistle - electric heating and central AC | SFA | LI | Retrofit | 9,332.1 | 0.6% | 58.3 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on electric furnaces in homes with electric forced air heating | 17.0% | 10.0% | 49.08 |
| 2074 | Furnace Whistle - non-electric heating and central AC | SFA | LI | Retrofit | 1,644.0 | 0.9% | 15.4 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on non-electric furnaces in homes with non-electric forced air heating | 49.0% | 10.0% | 29.61 |
| 2075 | High Efficiency Room Air Conditioner (11 CEER to 12 CEER) | SFA | LI | ROB | 1,594.0 | 0.5% | 8.1 | 0.061 | 0.30 | 9 | \$40.00 | Installation of a high efficiency room air conditioner instead of standard room air conditioner in homes with room air conditioning and any form of electric heating other than baseboard heating | 72.9% | 15.0% | 0.28 |
| 2076 | Programmable Thermostat (electric heating and air conditioning) | SFA | LI | Retrofit | 10,404.8 | 3.4% | 351.7 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with electric heating and air conditioning | 26.7% | 57.0% | 2.08 |
| 2077 | Smart Thermostat (electric heating and air conditioning) | SFA | LI | Retrofit | 10,404.8 | 10.6% | 1,107.0 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with electric heating and air conditioning | 26.7% | 57.0% | 1.68 |
| 2078 | Programmable Thermostat (non-electric heating and air conditioning) | SFA | LI | Retrofit | 1,644.0 | 2.0% | 32.9 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with non-electric heating and air conditioning | 65.3% | 57.0% | 0.21 |
| 2079 | Smart Thermostat (non-electric heating and air conditioning) | SFA | LI | Retrofit | 1,644.0 | 13.7% | 225.4 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with non-electric heating and air conditioning | 65.3% | 57.0% | 0.36 |
| 2080 | Central AC Maintenance (10.4 SEER to 11 SEER) | MF | NLI | Retrofit | 1,689.0 | 3.5% | 59.0 | 0.096 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of central AC units in homes with central air conditioning | 60.0% | 80.0% | 0.40 |
| 2081 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) | MF | NLI | ROB | 1,290.0 | 11.6% | 149.0 | 0.124 | 0.65 | 14 | \$1,141.46 | Installation of 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 60.0% | 16.0% | 0.11 |
| 2082 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) | MF | NLI | ROB | 1,290.0 | 16.6% | 214.0 | 0.174 | 0.65 | 14 | \$2,321.59 | Installation of 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 60.0% | 16.0% | 0.08 |
| 2083 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) - with proper sizing | MF | NLI | ROB | 1,290.0 | 12.9% | 167.0 | 0.140 | 0.65 | 14 | \$856.10 | Installation of properly sized 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 60.0% | 16.0% | 0.16 |

Measure Assumptions - West Penn Power

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|---|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|--|-----------------|---------------|-------------------|
| 2084 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) - with proper sizing | MF | NLI | ROB | 1,290.0 | 18.0% | 232.0 | 0.190 | 0.65 | 14 | \$1,741.19 | Installation of properly sized 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 60.0% | 16.0% | 0.11 |
| 2085 | Air Source Heat Pump Maintenance (12.3 SEER to 13 SEER / 7.3 hspf to 7.7 hspf) | MF | NLI | Retrofit | 2,624.0 | 9.9% | 259.0 | 0.107 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of air-source heat pump in homes with air-source heat pumps | 4.9% | 67.0% | 0.96 |
| 2086 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 15 SEER / 8.5 hspf) | MF | NLI | ROB | 2,210.0 | 3.3% | 73.0 | 0.033 | 0.65 | 12 | \$781.39 | Installation of 15 SEER / 8.5 hspf instead of standard air-source heat pump in homes with heat pumps | 4.9% | 16.0% | 0.05 |
| 2087 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 16 SEER / 9.0 hspf) | MF | NLI | ROB | 2,210.0 | 7.7% | 170.0 | 0.049 | 0.65 | 12 | \$1,046.23 | Installation of 16 SEER / 9.0 hspf instead of standard air-source heat pump in homes with heat pumps | 4.9% | 16.0% | 0.08 |
| 2088 | ENERGY STAR Air Source Heat Pump (Elec Furnace / CAC to 16 SEER / 9.0 hspf) | MF | NLI | ROB | 3,511.0 | 41.9% | 1,471.0 | 0.111 | 0.65 | 12 | \$2,172.26 | Installation of 16 SEER / 9.0 hspf instead of electric furnace in homes with electric furnaces | 6.4% | 0.0% | 0.29 |
| 2089 | High Efficiency Furnace Fan (on existing furnace) - electric heating and central AC | MF | ALL | Retrofit | 3,511.0 | 12.7% | 446.0 | 0.176 | 0.65 | 18 | \$360.00 | Installation of high efficiency furnace fan on existing furnace in homes with electric furnaces | 17.0% | 34.0% | 0.81 |
| 2090 | High Efficiency Furnace Fan (on existing furnace) - non-electric heating and central AC | MF | ALL | Retrofit | 1,630.0 | 27.4% | 446.0 | 0.176 | 0.65 | 18 | \$360.00 | Installation of high efficiency furnace fan on existing furnace in homes with non-electric furnaces | 49.0% | 34.0% | 0.81 |
| 2091 | Furnace Whistle - electric heating and central AC | MF | NLI | Retrofit | 3,207.9 | 1.8% | 58.3 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on electric furnaces in homes with electric forced air heating | 17.0% | 10.0% | 49.08 |
| 2092 | Furnace Whistle - non-electric heating and central AC | MF | NLI | Retrofit | 1,630.0 | 0.9% | 15.4 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on non-electric furnaces in homes with non-electric forced air heating | 49.0% | 10.0% | 29.61 |
| 2093 | Ductless Mini-Split Heat Pump (16 SEER / 9.0 hspf) - replacing baseboard/room AC | MF | ALL | ROB | 3,283.0 | 58.7% | 1,926.0 | 1.034 | 0.30 | 15 | \$1,428.32 | Installation of a 16 SEER / 9.0 hspf ductless minisplit heat pump to replace baseboard heating in homes with baseboard heating and room air conditioning | 37.9% | 0.0% | 0.80 |
| 2094 | Ductless Mini-Split Air Conditioner (16 SEER) replacing room AC | MF | ALL | ROB | 1,428.0 | 48.1% | 687.0 | 1.061 | 0.30 | 15 | \$1,428.32 | Installation of a 16 SEER / 9.0 hspf ductless minisplit air conditioner instead of standard room air conditioner in homes with room air conditioning and any form of electric heating other than baseboard heating | 37.9% | 15.0% | 0.40 |
| 2095 | High Efficiency Room Air Conditioner (11 CEER to 12 CEER) | MF | NLI | ROB | 1,428.0 | 0.6% | 8.1 | 0.061 | 0.30 | 9 | \$40.00 | Installation of a high efficiency room air conditioner instead of standard room air conditioner in homes with room air conditioning and any form of electric heating other than baseboard heating | 61.8% | 15.0% | 0.28 |
| 2096 | Room AC Retirement | MF | ALL | Retrofit | 1,454.4 | 10.2% | 148.0 | 0.640 | 0.30 | 4 | \$60.00 | Retirement of supplemental room air conditioners (not primary or secondary) in homes with room air conditioners | 16.0% | 0.0% | 1.17 |
| 2097 | Programmable Thermostat (electric heating and air conditioning) | MF | NLI | Retrofit | 3,253.0 | 2.9% | 95.8 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with electric heating and air conditioning | 26.7% | 57.0% | 0.57 |
| 2098 | Smart Thermostat (electric heating and air conditioning) | MF | NLI | Retrofit | 3,253.0 | 12.1% | 394.2 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with electric heating and air conditioning | 26.7% | 57.0% | 0.60 |
| 2099 | Programmable Thermostat (non-electric heating and air conditioning) | MF | NLI | Retrofit | 1,630.0 | 2.0% | 32.6 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with non-electric heating and air conditioning | 65.3% | 57.0% | 0.20 |
| 2100 | Smart Thermostat (non-electric heating and air conditioning) | MF | NLI | Retrofit | 1,630.0 | 14.4% | 235.3 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with non-electric heating and air conditioning | 65.3% | 57.0% | 0.38 |
| 2101 | Residential Whole House Fan | MF | ALL | Retrofit | 1,630.0 | 4.8% | 78.4 | 0.000 | 0.65 | 15 | \$533.86 | Installation of residential whole house fan in homes with air conditioning | 92.0% | 9.1% | 0.08 |
| 2102 | Central AC Maintenance (10.4 SEER to 11 SEER) | MF | LI | Retrofit | 1,689.0 | 3.5% | 59.0 | 0.096 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of central AC units in homes with central air conditioning | 60.0% | 80.0% | 0.40 |
| 2103 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) | MF | LI | ROB | 1,290.0 | 11.6% | 149.0 | 0.124 | 0.65 | 14 | \$1,141.46 | Installation of 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 60.0% | 16.0% | 0.11 |
| 2104 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) | MF | LI | ROB | 1,290.0 | 16.6% | 214.0 | 0.174 | 0.65 | 14 | \$2,321.59 | Installation of 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 60.0% | 16.0% | 0.08 |
| 2105 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) - with proper sizing | MF | LI | ROB | 1,290.0 | 12.9% | 167.0 | 0.140 | 0.65 | 14 | \$856.10 | Installation of properly sized 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 60.0% | 16.0% | 0.16 |
| 2106 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) - with proper sizing | MF | LI | ROB | 1,290.0 | 18.0% | 232.0 | 0.190 | 0.65 | 14 | \$1,741.19 | Installation of properly sized 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 60.0% | 16.0% | 0.11 |
| 2107 | Air Source Heat Pump Maintenance (12.3 SEER to 13 SEER / 7.3 hspf to 7.7 hspf) | MF | LI | ROB | 2,624.0 | 9.9% | 259.0 | 0.107 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of air-source heat pump in homes with air-source heat pumps | 4.9% | 67.0% | 0.96 |
| 2108 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 15 SEER / 8.5 hspf) | MF | LI | ROB | 2,210.0 | 3.3% | 73.0 | 0.033 | 0.65 | 12 | \$781.39 | Installation of 15 SEER / 8.5 hspf instead of standard air-source heat pump in homes with heat pumps | 4.9% | 16.0% | 0.05 |
| 2109 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 16 SEER / 9.0 hspf) | MF | LI | ROB | 2,210.0 | 7.7% | 170.0 | 0.049 | 0.65 | 12 | \$1,046.23 | Installation of 16 SEER / 9.0 hspf instead of standard air-source heat pump in homes with heat pumps | 4.9% | 16.0% | 0.08 |
| 2110 | ENERGY STAR Air Source Heat Pump (Elec Furnace / CAC to 16 SEER / 9.0 hspf) | MF | LI | ROB | 3,511.0 | 41.9% | 1,471.0 | 0.111 | 0.65 | 12 | \$2,172.26 | Installation of 16 SEER / 9.0 hspf instead of electric furnace in homes with electric furnaces | 6.4% | 0.0% | 0.29 |
| 2111 | Furnace Whistle - electric heating and central AC | MF | LI | Retrofit | 3,207.9 | 1.8% | 58.3 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on electric furnaces in homes with electric forced air heating | 17.0% | 10.0% | 49.08 |
| 2112 | Furnace Whistle - non-electric heating and central AC | MF | LI | Retrofit | 1,630.0 | 0.9% | 15.4 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on non-electric furnaces in homes with non-electric forced air heating | 49.0% | 10.0% | 29.61 |

Measure Assumptions - West Penn Power

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|---|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|---|-----------------|---------------|-------------------|
| 2113 | High Efficiency Room Air Conditioner (11 CEER to 12 CEER) | MF | LI | ROB | 1,428.0 | 0.6% | 8.1 | 0.061 | 0.30 | 9 | \$40.00 | Installation of a high efficiency room air conditioner instead of standard room air conditioner in homes with room air conditioning and any form of electric heating other than baseboard heating | 61.8% | 15.0% | 0.28 |
| 2114 | Programmable Thermostat (electric heating and air conditioning) | MF | LI | Retrofit | 3,253.0 | 2.9% | 95.8 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with electric heating and air conditioning | 26.7% | 57.0% | 0.57 |
| 2115 | Smart Thermostat (electric heating and air conditioning) | MF | LI | Retrofit | 3,253.0 | 12.1% | 394.2 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with electric heating and air conditioning | 26.7% | 57.0% | 0.60 |
| 2116 | Programmable Thermostat (non-electric heating and air conditioning) | MF | LI | Retrofit | 1,630.0 | 2.0% | 32.6 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with non-electric heating and air conditioning | 65.3% | 57.0% | 0.20 |
| 2117 | Smart Thermostat (non-electric heating and air conditioning) | MF | LI | Retrofit | 1,630.0 | 14.4% | 235.3 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with non-electric heating and air conditioning | 65.3% | 57.0% | 0.38 |
| 3000 | Domestic Hot Water | | | | | | | | | | | | | | |
| 3001 | Water Heater Temperature Setback | SFD | NLI | Retrofit | 1,966.9 | 7.7% | 151.3 | 0.012 | 1.00 | 4 | \$5.00 | Lowering water heater setpoint from 130 to 120 degrees | 51.0% | 81.6% | 5.74 |
| 3002 | Water Heater Pipe Insulation | SFD | NLI | Retrofit | 3,338.0 | 3.0% | 100.0 | 0.008 | 1.00 | 13 | \$30.00 | Installation of foam insulation on 10 feet of exposed pipe in unconditioned 3/4" thick. | 51.0% | 15.0% | 1.63 |
| 3003 | Low Flow Faucet Aerators - Bathroom | SFD | NLI | Retrofit | 71.2 | 31.9% | 22.7 | 0.003 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in bathroom to replace standard flow aerator | 170.5% | 30.0% | 6.87 |
| 3004 | Low Flow Faucet Aerators - Kitchen | SFD | NLI | Retrofit | 613.3 | 31.9% | 195.9 | 0.026 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in kitchen to replace standard flow aerator | 51.0% | 30.0% | 59.17 |
| 3005 | Low Flow Showerheads | SFD | NLI | Retrofit | 903.2 | 40.0% | 361.3 | 0.029 | 1.00 | 9 | \$6.00 | Installation of low flow showerhead in to replace standard flow showerhead | 93.9% | 32.0% | 22.26 |
| 3006 | Thermostatic Shower Restriction Valve | SFD | ALL | Retrofit | 106.1 | 100.0% | 106.1 | 0.009 | 1.00 | 10 | \$30.00 | Installation of thermostatic restriction valve to reduce hot water usage during shower warm-up in homes with electric water heating | 93.9% | 1.0% | 1.41 |
| 3007 | Drain Water Heat Recovery Device | SFD | NLI | Retrofit | 556.5 | 45.4% | 252.7 | 0.041 | 0.70 | 20 | \$1,022.00 | Installation of a drain water heat recovery device to recapture heated wastewater in homes with electric water heating | 51.0% | 1.0% | 0.14 |
| 3008 | Water Heater Tank Wrap | SFD | NLI | Retrofit | 389.1 | 54.9% | 213.6 | 0.024 | 1.00 | 7 | \$50.00 | Installation of insulated tank wrap to existing residential electric hot water heaters | 51.0% | 9.0% | 1.35 |
| 3009 | Heat Pump Water Heaters (50 - 75 gallon) | SFD | NLI | ROB | 3,005.7 | 45.7% | 1,373.3 | 0.111 | 1.00 | 14 | \$945.00 | Installation of 50-75 gallon heat pump water heater instead of standard storage electric storage water heater | 43.4% | 0.0% | 0.53 |
| 3010 | Solar Water Heaters | SFD | NLI | ROB | 3,005.7 | 48.6% | 1,462.0 | 0.118 | 1.00 | 15 | \$5,384.00 | Installation of solar water heater instead of standard storage electric storage water heater | 43.4% | 0.0% | 0.15 |
| 3011 | Heat Pump Water Heaters (75+ gallon) | SFD | NLI | ROB | 1,449.6 | 2.1% | 30.1 | 0.002 | 1.00 | 14 | \$1,369.00 | Installation of 75+ gallon heat pump water heater instead of standard storage electric storage water heater | 7.6% | 0.0% | 0.01 |
| 3012 | Water Heater Temperature Setback | SFD | LI | Retrofit | 1,966.9 | 7.7% | 151.3 | 0.012 | 1.00 | 4 | \$5.00 | Lowering water heater setpoint from 130 to 120 degrees | 51.0% | 81.6% | 5.74 |
| 3013 | Water Heater Pipe Insulation | SFD | LI | Retrofit | 3,338.0 | 3.0% | 100.0 | 0.008 | 1.00 | 13 | \$30.00 | Installation of foam insulation on 10 feet of exposed pipe in unconditioned 3/4" thick. | 51.0% | 15.0% | 1.63 |
| 3014 | Low Flow Faucet Aerators - Bathroom | SFD | LI | Retrofit | 71.2 | 31.9% | 22.7 | 0.003 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in bathroom to replace standard flow aerator | 170.5% | 30.0% | 6.87 |
| 3015 | Low Flow Faucet Aerators - Kitchen | SFD | LI | Retrofit | 613.3 | 31.9% | 195.9 | 0.026 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in kitchen to replace standard flow aerator | 51.0% | 30.0% | 59.17 |
| 3016 | Low Flow Showerheads | SFD | LI | Retrofit | 903.2 | 40.0% | 361.3 | 0.029 | 1.00 | 9 | \$6.00 | Installation of low flow showerhead in to replace standard flow showerhead | 93.9% | 32.0% | 22.26 |
| 3017 | Drain Water Heat Recovery Device | SFD | LI | Retrofit | 556.5 | 45.4% | 252.7 | 0.041 | 0.70 | 20 | \$1,022.00 | Installation of a drain water heat recovery device to recapture heated wastewater in homes with electric water heating | 51.0% | 1.0% | 0.14 |
| 3018 | Water Heater Tank Wrap | SFD | LI | Retrofit | 389.1 | 54.9% | 213.6 | 0.024 | 1.00 | 7 | \$50.00 | Installation of insulated tank wrap to existing residential electric hot water heaters | 51.0% | 9.0% | 1.35 |
| 3019 | Heat Pump Water Heaters (50 - 75 gallon) | SFD | LI | ROB | 3,005.7 | 45.7% | 1,373.3 | 0.111 | 1.00 | 14 | \$945.00 | Installation of 50-75 gallon heat pump water heater instead of standard storage electric storage water heater | 43.4% | 0.0% | 0.53 |
| 3020 | Solar Water Heaters | SFD | LI | ROB | 3,005.7 | 48.6% | 1,462.0 | 0.118 | 1.00 | 15 | \$5,384.00 | Installation of solar water heater instead of standard storage electric storage water heater | 43.4% | 0.0% | 0.15 |
| 3021 | Heat Pump Water Heaters (75+ gallon) | SFD | LI | ROB | 1,449.6 | 2.1% | 30.1 | 0.002 | 1.00 | 14 | \$1,369.00 | Installation of 75+ gallon heat pump water heater instead of standard storage electric storage water heater | 7.6% | 0.0% | 0.01 |
| 3022 | Water Heater Temperature Setback | SFD | ALL | NC | 1,966.9 | 7.7% | 151.3 | 0.012 | 1.00 | 4 | \$5.00 | Lowering water heater setpoint from 130 to 120 degrees | 51.0% | 0.0% | 5.74 |
| 3023 | Water Heater Pipe Insulation | SFD | ALL | NC | 3,338.0 | 3.0% | 100.0 | 0.008 | 1.00 | 13 | \$30.00 | Installation of foam insulation on 10 feet of exposed pipe in unconditioned 3/4" thick. | 51.0% | 0.0% | 1.63 |
| 3024 | Low Flow Faucet Aerators - Bathroom | SFD | ALL | NC | 71.2 | 31.9% | 22.7 | 0.003 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in bathroom to replace standard flow aerator | 170.5% | 0.0% | 6.87 |
| 3025 | Low Flow Faucet Aerators - Kitchen | SFD | ALL | NC | 613.3 | 31.9% | 195.9 | 0.026 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in kitchen to replace standard flow aerator | 51.0% | 0.0% | 59.17 |
| 3026 | Low Flow Showerheads | SFD | ALL | NC | 903.2 | 40.0% | 361.3 | 0.029 | 1.00 | 9 | \$6.00 | Installation of low flow showerhead in to replace standard flow showerhead | 93.9% | 0.0% | 22.26 |
| 3027 | Thermostatic Shower Restriction Valve | SFD | ALL | NC | 106.1 | 100.0% | 106.1 | 0.009 | 1.00 | 10 | \$30.00 | Installation of thermostatic restriction valve to reduce hot water usage during shower warm-up in homes with electric water heating | 93.9% | 0.0% | 1.41 |

Measure Assumptions - West Penn Power

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|---|-----------------|---------------|-------------------|
| 3028 | Drain Water Heat Recovery Device | SFD | ALL | NC | 556.5 | 45.4% | 252.7 | 0.041 | 0.70 | 20 | \$1,022.00 | Installation of a drain water heat recovery device to recapture heated wastewater in homes with electric water heating | 51.0% | 0.0% | 0.14 |
| 3029 | Water Heater Tank Wrap | SFD | ALL | NC | 389.1 | 54.9% | 213.6 | 0.024 | 1.00 | 7 | \$50.00 | Installation of insulated tank wrap to existing residential electric hot water heaters | 51.0% | 0.0% | 1.35 |
| 3030 | Heat Pump Water Heaters (50 - 75 gallon) | SFD | ALL | NC | 3,005.7 | 45.7% | 1,373.3 | 0.111 | 1.00 | 14 | \$945.00 | Installation of 50-75 gallon heat pump water heater instead of standard storage electric storage water heater | 43.4% | 0.0% | 0.53 |
| 3031 | Solar Water Heaters | SFD | ALL | NC | 3,005.7 | 48.6% | 1,462.0 | 0.118 | 1.00 | 15 | \$5,384.00 | Installation of solar water heater instead of standard storage electric storage water heater | 43.4% | 0.0% | 0.15 |
| 3032 | Heat Pump Water Heaters (75+ gallon) | SFD | ALL | NC | 1,449.6 | 2.1% | 30.1 | 0.002 | 1.00 | 14 | \$1,369.00 | Installation of 75+ gallon heat pump water heater instead of standard storage electric storage water heater | 7.6% | 0.0% | 0.01 |
| 3033 | Water Heater Temperature Setback | SFA | NLI | Retrofit | 1,966.9 | 7.7% | 151.3 | 0.012 | 1.00 | 4 | \$5.00 | Lowering water heater setpoint from 130 to 120 degrees | 51.0% | 81.6% | 5.74 |
| 3034 | Water Heater Pipe Insulation | SFA | NLI | Retrofit | 3,338.0 | 3.0% | 100.0 | 0.008 | 1.00 | 13 | \$30.00 | Installation of foam insulation on 10 feet of exposed pipe in unconditioned 3/4" thick. | 51.0% | 15.0% | 1.63 |
| 3035 | Low Flow Faucet Aerators - Bathroom | SFA | NLI | Retrofit | 71.2 | 31.9% | 22.7 | 0.003 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in bathroom to replace standard flow aerator | 131.7% | 30.0% | 6.87 |
| 3036 | Low Flow Faucet Aerators - Kitchen | SFA | NLI | Retrofit | 613.3 | 31.9% | 195.9 | 0.026 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in kitchen to replace standard flow aerator | 51.0% | 30.0% | 59.17 |
| 3037 | Low Flow Showerheads | SFA | NLI | Retrofit | 903.2 | 40.0% | 361.3 | 0.029 | 1.00 | 9 | \$6.00 | Installation of low flow showerhead in to replace standard flow showerhead | 86.7% | 32.0% | 22.26 |
| 3038 | Thermostatic Shower Restriction Valve | SFA | ALL | Retrofit | 106.1 | 100.0% | 106.1 | 0.009 | 1.00 | 10 | \$30.00 | Installation of thermostatic restriction valve to reduce hot water usage during shower warm-up in homes with electric water heating | 86.7% | 1.0% | 1.41 |
| 3039 | Drain Water Heat Recovery Device | SFA | NLI | Retrofit | 556.5 | 45.4% | 252.7 | 0.041 | 0.70 | 20 | \$1,022.00 | Installation of a drain water heat recovery device to recapture heated wastewater in homes with electric water heating | 51.0% | 1.0% | 0.14 |
| 3040 | Water Heater Tank Wrap | SFA | NLI | Retrofit | 389.1 | 54.9% | 213.6 | 0.024 | 1.00 | 7 | \$50.00 | Installation of insulated tank wrap to existing residential electric hot water heaters | 51.0% | 9.0% | 1.35 |
| 3041 | Heat Pump Water Heaters (50 - 75 gallon) | SFA | NLI | ROB | 3,005.7 | 45.7% | 1,373.3 | 0.111 | 1.00 | 14 | \$945.00 | Installation of 50-75 gallon heat pump water heater instead of standard storage electric storage water heater | 43.4% | 0.0% | 0.53 |
| 3042 | Solar Water Heaters | SFA | NLI | ROB | 3,005.7 | 48.6% | 1,462.0 | 0.118 | 1.00 | 15 | \$5,384.00 | Installation of solar water heater instead of standard storage electric storage water heater | 43.4% | 0.0% | 0.15 |
| 3043 | Heat Pump Water Heaters (75+ gallon) | SFA | NLI | ROB | 1,449.6 | 2.1% | 30.1 | 0.002 | 1.00 | 14 | \$1,369.00 | Installation of 75+ gallon heat pump water heater instead of standard storage electric storage water heater | 7.6% | 0.0% | 0.01 |
| 3044 | Water Heater Temperature Setback | SFA | LI | Retrofit | 1,966.9 | 7.7% | 151.3 | 0.012 | 1.00 | 4 | \$5.00 | Lowering water heater setpoint from 130 to 120 degrees | 51.0% | 81.6% | 5.74 |
| 3045 | Water Heater Pipe Insulation | SFA | LI | Retrofit | 3,338.0 | 3.0% | 100.0 | 0.008 | 1.00 | 13 | \$30.00 | Installation of foam insulation on 10 feet of exposed pipe in unconditioned 3/4" thick. | 51.0% | 15.0% | 1.63 |
| 3046 | Low Flow Faucet Aerators - Bathroom | SFA | LI | Retrofit | 71.2 | 31.9% | 22.7 | 0.003 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in bathroom to replace standard flow aerator | 131.7% | 30.0% | 6.87 |
| 3047 | Low Flow Faucet Aerators - Kitchen | SFA | LI | Retrofit | 613.3 | 31.9% | 195.9 | 0.026 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in kitchen to replace standard flow aerator | 51.0% | 30.0% | 59.17 |
| 3048 | Low Flow Showerheads | SFA | LI | Retrofit | 903.2 | 40.0% | 361.3 | 0.029 | 1.00 | 9 | \$6.00 | Installation of low flow showerhead in to replace standard flow showerhead | 86.7% | 32.0% | 22.26 |
| 3049 | Drain Water Heat Recovery Device | SFA | LI | Retrofit | 556.5 | 45.4% | 252.7 | 0.041 | 0.70 | 20 | \$1,022.00 | Installation of a drain water heat recovery device to recapture heated wastewater in homes with electric water heating | 51.0% | 1.0% | 0.14 |
| 3050 | Water Heater Tank Wrap | SFA | LI | Retrofit | 389.1 | 54.9% | 213.6 | 0.024 | 1.00 | 7 | \$50.00 | Installation of insulated tank wrap to existing residential electric hot water heaters | 51.0% | 9.0% | 1.35 |
| 3051 | Heat Pump Water Heaters (50 - 75 gallon) | SFA | LI | ROB | 3,005.7 | 45.7% | 1,373.3 | 0.111 | 1.00 | 14 | \$945.00 | Installation of 50-75 gallon heat pump water heater instead of standard storage electric storage water heater | 43.4% | 0.0% | 0.53 |
| 3052 | Solar Water Heaters | SFA | LI | ROB | 3,005.7 | 48.6% | 1,462.0 | 0.118 | 1.00 | 15 | \$5,384.00 | Installation of solar water heater instead of standard storage electric storage water heater | 43.4% | 0.0% | 0.15 |
| 3053 | Heat Pump Water Heaters (75+ gallon) | SFA | LI | ROB | 1,449.6 | 2.1% | 30.1 | 0.002 | 1.00 | 14 | \$1,369.00 | Installation of 75+ gallon heat pump water heater instead of standard storage electric storage water heater | 7.6% | 0.0% | 0.01 |
| 3054 | Water Heater Temperature Setback | SFA | ALL | NC | 1,966.9 | 7.7% | 151.3 | 0.012 | 1.00 | 4 | \$5.00 | Lowering water heater setpoint from 130 to 120 degrees | 51.0% | 0.0% | 5.74 |
| 3055 | Water Heater Pipe Insulation | SFA | ALL | NC | 3,338.0 | 3.0% | 100.0 | 0.008 | 1.00 | 13 | \$30.00 | Installation of foam insulation on 10 feet of exposed pipe in unconditioned 3/4" thick. | 51.0% | 0.0% | 1.63 |
| 3056 | Low Flow Faucet Aerators - Bathroom | SFA | ALL | NC | 71.2 | 31.9% | 22.7 | 0.003 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in bathroom to replace standard flow aerator | 131.7% | 0.0% | 6.87 |
| 3057 | Low Flow Faucet Aerators - Kitchen | SFA | ALL | NC | 613.3 | 31.9% | 195.9 | 0.026 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in kitchen to replace standard flow aerator | 51.0% | 0.0% | 59.17 |
| 3058 | Low Flow Showerheads | SFA | ALL | NC | 903.2 | 40.0% | 361.3 | 0.029 | 1.00 | 9 | \$6.00 | Installation of low flow showerhead in to replace standard flow showerhead | 86.7% | 0.0% | 22.26 |
| 3059 | Thermostatic Shower Restriction Valve | SFA | ALL | NC | 106.1 | 100.0% | 106.1 | 0.009 | 1.00 | 10 | \$30.00 | Installation of thermostatic restriction valve to reduce hot water usage during shower warm-up in homes with electric water heating | 86.7% | 0.0% | 1.41 |
| 3060 | Drain Water Heat Recovery Device | SFA | ALL | NC | 556.5 | 45.4% | 252.7 | 0.041 | 0.70 | 20 | \$1,022.00 | Installation of a drain water heat recovery device to recapture heated wastewater in homes with electric water heating | 51.0% | 0.0% | 0.14 |

Measure Assumptions - West Penn Power

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|---|-----------------|---------------|-------------------|
| 3061 | Water Heater Tank Wrap | SFA | ALL | NC | 389.1 | 54.9% | 213.6 | 0.024 | 1.00 | 7 | \$50.00 | Installation of insulated tank wrap to existing residential electric hot water heaters | 51.0% | 0.0% | 1.35 |
| 3062 | Heat Pump Water Heaters (50 - 75 gallon) | SFA | ALL | NC | 3,005.7 | 45.7% | 1,373.3 | 0.111 | 1.00 | 14 | \$945.00 | Installation of 50-75 gallon heat pump water heater instead of standard storage electric storage water heater | 43.4% | 0.0% | 0.53 |
| 3063 | Solar Water Heaters | SFA | ALL | NC | 3,005.7 | 48.6% | 1,462.0 | 0.118 | 1.00 | 15 | \$5,384.00 | Installation of solar water heater instead of standard storage electric storage water heater | 43.4% | 0.0% | 0.15 |
| 3064 | Heat Pump Water Heaters (75+ gallon) | SFA | ALL | NC | 1,449.6 | 2.1% | 30.1 | 0.002 | 1.00 | 14 | \$1,369.00 | Installation of 75+ gallon heat pump water heater instead of standard storage electric storage water heater | 7.6% | 0.0% | 0.01 |
| 3065 | Water Heater Temperature Setback | MF | NLI | Retrofit | 1,966.9 | 7.7% | 151.3 | 0.012 | 1.00 | 4 | \$5.00 | Lowering water heater setpoint from 130 to 120 degrees | 51.0% | 81.6% | 5.74 |
| 3066 | Water Heater Pipe Insulation | MF | NLI | Retrofit | 3,338.0 | 3.0% | 100.0 | 0.008 | 1.00 | 13 | \$30.00 | Installation of foam insulation on 10 feet of exposed pipe in unconditioned 3/4" thick. | 51.0% | 15.0% | 1.63 |
| 3067 | Low Flow Faucet Aerators - Bathroom | MF | NLI | Retrofit | 120.7 | 31.9% | 38.5 | 0.005 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in bathroom to replace standard flow aerator | 81.9% | 30.0% | 11.65 |
| 3068 | Low Flow Faucet Aerators - Kitchen | MF | NLI | Retrofit | 485.6 | 31.9% | 155.1 | 0.021 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in kitchen to replace standard flow aerator | 51.0% | 30.0% | 46.85 |
| 3069 | Low Flow Showerheads | MF | NLI | Retrofit | 845.0 | 40.0% | 338.0 | 0.027 | 1.00 | 9 | \$6.00 | Installation of low flow showerhead in to replace standard flow showerhead | 79.5% | 32.0% | 20.83 |
| 3070 | Thermostatic Shower Restriction Valve | MF | ALL | Retrofit | 99.3 | 100.0% | 99.3 | 0.008 | 1.00 | 10 | \$30.00 | Installation of thermostatic restriction valve to reduce hot water usage during shower warm-up in homes with electric water heating | 79.5% | 1.0% | 1.32 |
| 3071 | Drain Water Heat Recovery Device | MF | NLI | Retrofit | 371.0 | 45.4% | 168.4 | 0.027 | 0.70 | 20 | \$1,022.00 | Installation of a drain water heat recovery device to recapture heated wastewater in homes with electric water heating | 51.0% | 1.0% | 0.09 |
| 3072 | Water Heater Tank Wrap | MF | NLI | Retrofit | 389.1 | 54.9% | 213.6 | 0.024 | 1.00 | 7 | \$50.00 | Installation of insulated tank wrap to existing residential electric hot water heaters | 51.0% | 9.0% | 1.35 |
| 3073 | Heat Pump Water Heaters (50 - 75 gallon) | MF | NLI | ROB | 3,005.7 | 45.7% | 1,373.3 | 0.111 | 1.00 | 14 | \$945.00 | Installation of 50-75 gallon heat pump water heater instead of standard storage electric storage water heater | 43.4% | 0.0% | 0.53 |
| 3074 | Solar Water Heaters | MF | NLI | ROB | 3,005.7 | 48.6% | 1,462.0 | 0.118 | 1.00 | 15 | \$5,384.00 | Installation of solar water heater instead of standard storage electric storage water heater | 43.4% | 0.0% | 0.15 |
| 3075 | Heat Pump Water Heaters (75+ gallon) | MF | NLI | ROB | 1,449.6 | 2.1% | 30.1 | 0.002 | 1.00 | 14 | \$1,369.00 | Installation of 75+ gallon heat pump water heater instead of standard storage electric storage water heater | 7.6% | 0.0% | 0.01 |
| 3076 | Water Heater Temperature Setback | MF | LI | Retrofit | 1,966.9 | 7.7% | 151.3 | 0.012 | 1.00 | 4 | \$5.00 | Lowering water heater setpoint from 130 to 120 degrees | 51.0% | 81.6% | 5.74 |
| 3077 | Water Heater Pipe Insulation | MF | LI | Retrofit | 3,338.0 | 3.0% | 100.0 | 0.008 | 1.00 | 13 | \$30.00 | Installation of foam insulation on 10 feet of exposed pipe in unconditioned 3/4" thick. | 51.0% | 15.0% | 1.63 |
| 3078 | Low Flow Faucet Aerators - Bathroom | MF | LI | Retrofit | 120.7 | 31.9% | 38.5 | 0.005 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in bathroom to replace standard flow aerator | 81.9% | 30.0% | 11.65 |
| 3079 | Low Flow Faucet Aerators - Kitchen | MF | LI | Retrofit | 485.6 | 31.9% | 155.1 | 0.021 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in kitchen to replace standard flow aerator | 51.0% | 30.0% | 46.85 |
| 3080 | Low Flow Showerheads | MF | LI | Retrofit | 845.0 | 40.0% | 338.0 | 0.027 | 1.00 | 9 | \$6.00 | Installation of low flow showerhead in to replace standard flow showerhead | 79.5% | 32.0% | 20.83 |
| 3081 | Drain Water Heat Recovery Device | MF | LI | Retrofit | 371.0 | 45.4% | 168.4 | 0.027 | 0.70 | 20 | \$1,022.00 | Installation of a drain water heat recovery device to recapture heated wastewater in homes with electric water heating | 51.0% | 1.0% | 0.09 |
| 3082 | Water Heater Tank Wrap | MF | LI | Retrofit | 389.1 | 54.9% | 213.6 | 0.024 | 1.00 | 7 | \$50.00 | Installation of insulated tank wrap to existing residential electric hot water heaters | 51.0% | 9.0% | 1.35 |
| 3083 | Heat Pump Water Heaters (50 - 75 gallon) | MF | LI | ROB | 3,005.7 | 45.7% | 1,373.3 | 0.111 | 1.00 | 14 | \$945.00 | Installation of 50-75 gallon heat pump water heater instead of standard storage electric storage water heater | 43.4% | 0.0% | 0.53 |
| 3084 | Solar Water Heaters | MF | LI | ROB | 3,005.7 | 48.6% | 1,462.0 | 0.118 | 1.00 | 15 | \$5,384.00 | Installation of solar water heater instead of standard storage electric storage water heater | 43.4% | 0.0% | 0.15 |
| 3085 | Heat Pump Water Heaters (75+ gallon) | MF | LI | ROB | 1,449.6 | 2.1% | 30.1 | 0.002 | 1.00 | 14 | \$1,369.00 | Installation of 75+ gallon heat pump water heater instead of standard storage electric storage water heater | 7.6% | 0.0% | 0.01 |
| 3086 | Water Heater Temperature Setback | MF | ALL | NC | 1,966.9 | 7.7% | 151.3 | 0.012 | 1.00 | 4 | \$5.00 | Lowering water heater setpoint from 130 to 120 degrees | 51.0% | 0.0% | 5.74 |
| 3087 | Water Heater Pipe Insulation | MF | ALL | NC | 3,338.0 | 3.0% | 100.0 | 0.008 | 1.00 | 13 | \$30.00 | Installation of foam insulation on 10 feet of exposed pipe in unconditioned 3/4" thick. | 51.0% | 0.0% | 1.63 |
| 3088 | Low Flow Faucet Aerators - Bathroom | MF | ALL | NC | 120.7 | 31.9% | 38.5 | 0.005 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in bathroom to replace standard flow aerator | 81.9% | 0.0% | 11.65 |
| 3089 | Low Flow Faucet Aerators - Kitchen | MF | ALL | NC | 485.6 | 31.9% | 155.1 | 0.021 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in kitchen to replace standard flow aerator | 51.0% | 0.0% | 46.85 |
| 3090 | Low Flow Showerheads | MF | ALL | NC | 845.0 | 40.0% | 338.0 | 0.027 | 1.00 | 9 | \$6.00 | Installation of low flow showerhead in to replace standard flow showerhead | 79.5% | 0.0% | 20.83 |
| 3091 | Thermostatic Shower Restriction Valve | MF | ALL | NC | 99.3 | 100.0% | 99.3 | 0.008 | 1.00 | 10 | \$30.00 | Installation of thermostatic restriction valve to reduce hot water usage during shower warm-up in homes with electric water heating | 79.5% | 0.0% | 1.32 |
| 3092 | Drain Water Heat Recovery Device | MF | ALL | NC | 371.0 | 45.4% | 168.4 | 0.027 | 0.70 | 20 | \$1,022.00 | Installation of a drain water heat recovery device to recapture heated wastewater in homes with electric water heating | 51.0% | 0.0% | 0.09 |
| 3093 | Water Heater Tank Wrap | MF | ALL | NC | 389.1 | 54.9% | 213.6 | 0.024 | 1.00 | 7 | \$50.00 | Installation of insulated tank wrap to existing residential electric hot water heaters | 51.0% | 0.0% | 1.35 |
| 3094 | Heat Pump Water Heaters (50 - 75 gallon) | MF | ALL | NC | 3,005.7 | 45.7% | 1,373.3 | 0.111 | 1.00 | 14 | \$945.00 | Installation of 50-75 gallon heat pump water heater instead of standard storage electric storage water heater | 43.4% | 0.0% | 0.53 |

Measure Assumptions - West Penn Power

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|--|-----------------|---------------|-------------------|
| 3095 | Solar Water Heaters | MF | ALL | NC | 3,005.7 | 48.6% | 1,462.0 | 0.118 | 1.00 | 15 | \$5,384.00 | Installation of solar water heater instead of standard storage electric storage water heater | 43.4% | 0.0% | 0.15 |
| 3096 | Heat Pump Water Heaters (75+ gallon) | MF | ALL | NC | 1,449.6 | 2.1% | 30.1 | 0.002 | 1.00 | 14 | \$1,369.00 | Installation of 75+ gallon heat pump water heater instead of standard storage electric storage water heater | 7.6% | 0.0% | 0.01 |
| 4000 | Appliances | | | | | | | | | | | | | | |
| 4001 | Refrigerator Recycling with Replacement | SFD | NLI | Retrofit | 1,019.1 | 42.8% | 435.8 | 0.049 | 1.00 | 7 | \$120.00 | Retirement and replacement of non-primary refrigerators in homes with more than one refrigerator; replacement unit assumed to be standard efficiency model | 43.0% | 0.0% | 1.15 |
| 4002 | Refrigerator Recycling without Replacement | SFD | NLI | Retrofit | 1,019.1 | 100.0% | 1,019.1 | 0.114 | 1.00 | 8 | \$120.00 | Retirement (no replacement) of non-primary refrigerators in homes with more than one refrigerator | 43.0% | 0.0% | 2.98 |
| 4003 | Freezer Recycling with Replacement | SFD | ALL | Retrofit | 1,091.7 | 52.4% | 572.6 | 0.064 | 1.00 | 7 | \$120.00 | Retirement and replacement of non-primary freezers in homes with more than one freezer; replacement unit assumed to be standard efficiency model | 9.0% | 0.0% | 1.51 |
| 4004 | Freezer Recycling without Replacement | SFD | ALL | Retrofit | 1,091.7 | 100.0% | 1,091.7 | 0.122 | 1.00 | 8 | \$120.00 | Retirement (no replacement) of non-primary freezers in homes with more than one refrigerator | 9.0% | 0.0% | 3.19 |
| 4005 | ENERGY STAR Refrigerators (Top-Mount) | SFD | NLI | ROB | 462.2 | 8.2% | 37.9 | 0.004 | 1.00 | 12 | \$21.83 | Installation of ENERGY STAR top-mount refrigerator instead of standard efficiency unit | 52.5% | 28.0% | 0.82 |
| 4006 | ENERGY STAR Refrigerators (Side-by-Side) | SFD | NLI | ROB | 608.9 | 8.6% | 52.5 | 0.006 | 1.00 | 12 | \$57.31 | Installation of ENERGY STAR side-mount refrigerator instead of standard efficiency unit | 30.7% | 28.0% | 0.43 |
| 4007 | ENERGY STAR Refrigerators (Bottom-Mount) | SFD | NLI | ROB | 644.2 | 8.7% | 55.9 | 0.006 | 1.00 | 12 | \$17.29 | Installation of ENERGY STAR bottom-mount refrigerator instead of standard efficiency unit | 9.9% | 28.0% | 1.53 |
| 4008 | ENERGY STAR Freezers (Upright) | SFD | NLI | ROB | 483.2 | 9.1% | 44.0 | 0.005 | 1.00 | 12 | \$6.75 | Installation of ENERGY STAR upright freezers instead of standard efficiency unit | 18.5% | 13.0% | 3.09 |
| 4009 | ENERGY STAR Freezers (Chest) | SFD | NLI | ROB | 290.1 | 10.0% | 29.0 | 0.003 | 1.00 | 12 | \$5.23 | Installation of ENERGY STAR chest freezers instead of standard efficiency unit | 23.5% | 13.0% | 2.62 |
| 4010 | ENERGY STAR Clothes Washers (Electric Water Heating) | SFD | NLI | ROB | 492.4 | 32.2% | 158.8 | 0.635 | 0.029 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 43.9% | 29.0% | 1.42 |
| 4011 | ENERGY STAR Clothes Washers (Gas Water Heating) | SFD | NLI | ROB | 208.3 | 16.5% | 34.3 | 0.137 | 0.029 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with gas water heating | 42.1% | 29.0% | 0.31 |
| 4012 | ENERGY STAR Dishwashers (Electric Water Heating) | SFD | ALL | ROB | 307.0 | 12.1% | 37.0 | 0.158 | 0.026 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with electric water heating | 28.6% | 51.0% | 1.53 |
| 4013 | ENERGY STAR Dishwashers (Gas Water Heating) | SFD | ALL | ROB | 135.1 | 12.1% | 16.3 | 0.070 | 0.026 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with gas water heating | 27.4% | 51.0% | 0.68 |
| 4014 | ENERGY STAR Dehumidifiers | SFD | NLI | ROB | 792.4 | 18.9% | 149.9 | 0.092 | 0.41 | 12 | \$20.21 | Installation of ENERGY STAR dehumidifier instead of standard efficiency unit | 33.0% | 83.9% | 4.09 |
| 4015 | ENERGY STAR Water Coolers | SFD | ALL | ROB | 799.4 | 60.3% | 481.8 | 0.055 | 1.00 | 10 | \$50.00 | Installation of ENERGY STAR water cooler instead of standard efficiency unit | 1.2% | 68.5% | 4.01 |
| 4016 | ENERGY STAR Air Purifier/Cleaner | SFD | ALL | ROB | 587.0 | 66.6% | 391.0 | 0.067 | 1.00 | 9 | \$70.00 | Installation of ENERGY STAR air purifier instead of standard efficiency unit | 4.7% | 33.3% | 2.30 |
| 4017 | ENERGY STAR Dryers | SFD | ALL | ROB | 538.0 | 5.1% | 27.4 | 0.115 | 0.04 | 13 | \$50.00 | Installation of ENERGY STAR dryer instead of standard efficiency unit in homes with electric dryers | 69.7% | 25.0% | 0.30 |
| 4018 | Refrigerator Recycling with Replacement | SFD | LI | Retrofit | 1,019.1 | 42.8% | 435.8 | 0.049 | 1.00 | 7 | \$120.00 | Retirement and replacement of non-primary refrigerators in homes with more than one refrigerator; replacement unit assumed to be standard efficiency model | 43.0% | 0.0% | 1.15 |
| 4019 | Refrigerator Recycling without Replacement | SFD | LI | Retrofit | 1,019.1 | 100.0% | 1,019.1 | 0.114 | 1.00 | 8 | \$120.00 | Retirement (no replacement) of non-primary refrigerators in homes with more than one refrigerator | 43.0% | 0.0% | 2.98 |
| 4020 | ENERGY STAR Refrigerators (Top-Mount) | SFD | LI | ROB | 462.2 | 8.2% | 37.9 | 0.004 | 1.00 | 12 | \$21.83 | Installation of ENERGY STAR top-mount refrigerator instead of standard efficiency unit | 52.5% | 28.0% | 0.82 |
| 4021 | ENERGY STAR Refrigerators (Side-by-Side) | SFD | LI | ROB | 608.9 | 8.6% | 52.5 | 0.006 | 1.00 | 12 | \$57.31 | Installation of ENERGY STAR side-mount refrigerator instead of standard efficiency unit | 30.7% | 28.0% | 0.43 |
| 4022 | ENERGY STAR Refrigerators (Bottom-Mount) | SFD | LI | ROB | 644.2 | 8.7% | 55.9 | 0.006 | 1.00 | 12 | \$17.29 | Installation of ENERGY STAR bottom-mount refrigerator instead of standard efficiency unit | 9.9% | 28.0% | 1.53 |
| 4023 | ENERGY STAR Freezers (Upright) | SFD | LI | ROB | 483.2 | 9.1% | 44.0 | 0.005 | 1.00 | 12 | \$6.75 | Installation of ENERGY STAR upright freezers instead of standard efficiency unit | 18.5% | 13.0% | 3.09 |
| 4024 | ENERGY STAR Freezers (Chest) | SFD | LI | ROB | 290.1 | 10.0% | 29.0 | 0.003 | 1.00 | 12 | \$5.23 | Installation of ENERGY STAR chest freezers instead of standard efficiency unit | 23.5% | 13.0% | 2.62 |
| 4025 | ENERGY STAR Clothes Washers (Electric Water Heating) | SFD | LI | ROB | 492.4 | 32.2% | 158.8 | 0.635 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 43.9% | 29.0% | 1.42 |
| 4026 | ENERGY STAR Clothes Washers (Gas Water Heating) | SFD | LI | ROB | 208.3 | 16.5% | 34.3 | 0.137 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with gas water heating | 42.1% | 29.0% | 0.31 |
| 4027 | ENERGY STAR Dehumidifiers | SFD | LI | ROB | 792.4 | 18.9% | 149.9 | 0.092 | 0.41 | 12 | \$20.21 | Installation of ENERGY STAR dehumidifier instead of standard efficiency unit | 33.0% | 83.9% | 4.09 |
| 4028 | ENERGY STAR Refrigerators (Top-Mount) | SFD | ALL | NC | 462.2 | 8.2% | 37.9 | 0.004 | 1.00 | 12 | \$21.83 | Installation of ENERGY STAR top-mount refrigerator instead of standard efficiency unit | 52.5% | 0.0% | 0.82 |
| 4029 | ENERGY STAR Refrigerators (Side-by-Side) | SFD | ALL | NC | 608.9 | 8.6% | 52.5 | 0.006 | 1.00 | 12 | \$57.31 | Installation of ENERGY STAR side-mount refrigerator instead of standard efficiency unit | 30.7% | 0.0% | 0.43 |
| 4030 | ENERGY STAR Refrigerators (Bottom-Mount) | SFD | ALL | NC | 644.2 | 8.7% | 55.9 | 0.006 | 1.00 | 12 | \$17.29 | Installation of ENERGY STAR bottom-mount refrigerator instead of standard efficiency unit | 9.9% | 0.0% | 1.53 |

Measure Assumptions - West Penn Power

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|--|-----------------|---------------|-------------------|
| 4031 | ENERGY STAR Freezers (Upright) | SFD | ALL | NC | 483.2 | 9.1% | 44.0 | 0.005 | 1.00 | 12 | \$6.75 | Installation of ENERGY STAR upright freezers instead of standard efficiency unit | 18.5% | 0.0% | 3.09 |
| 4032 | ENERGY STAR Freezers (Chest) | SFD | ALL | NC | 290.1 | 10.0% | 29.0 | 0.003 | 1.00 | 12 | \$5.23 | Installation of ENERGY STAR chest freezers instead of standard efficiency unit | 23.5% | 0.0% | 2.62 |
| 4033 | ENERGY STAR Clothes Washers (Electric Water Heating) | SFD | ALL | NC | 492.4 | 32.2% | 158.8 | 0.635 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 43.9% | 0.0% | 1.42 |
| 4034 | ENERGY STAR Clothes Washers (Gas Water Heating) | SFD | ALL | NC | 208.3 | 16.5% | 34.3 | 0.137 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 42.1% | 0.0% | 0.31 |
| 4035 | ENERGY STAR Dishwashers (Electric Water Heating) | SFD | ALL | NC | 307.0 | 12.1% | 37.0 | 0.158 | 0.03 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with electric water heating | 28.6% | 0.0% | 1.53 |
| 4036 | ENERGY STAR Dishwashers (Gas Water Heating) | SFD | ALL | NC | 135.1 | 12.1% | 16.3 | 0.070 | 0.03 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with gas water heating | 27.4% | 0.0% | 0.68 |
| 4037 | ENERGY STAR Dehumidifiers | SFD | ALL | NC | 792.4 | 18.9% | 149.9 | 0.092 | 0.41 | 12 | \$20.21 | Installation of ENERGY STAR dehumidifier instead of standard efficiency unit | 33.0% | 0.0% | 4.09 |
| 4038 | ENERGY STAR Water Coolers | SFD | ALL | NC | 799.4 | 60.3% | 481.8 | 0.055 | 1.00 | 10 | \$50.00 | Installation of ENERGY STAR water cooler instead of standard efficiency unit | 1.2% | 0.0% | 4.01 |
| 4039 | ENERGY STAR Air Purifier/Cleaner | SFD | ALL | NC | 587.0 | 66.6% | 391.0 | 0.067 | 1.00 | 9 | \$70.00 | Installation of ENERGY STAR air purifier instead of standard efficiency unit | 4.7% | 0.0% | 2.30 |
| 4040 | ENERGY STAR Dryers | SFD | ALL | NC | 538.0 | 5.1% | 27.4 | 0.115 | 0.04 | 13 | \$50.00 | Installation of ENERGY STAR dryer instead of standard efficiency unit in homes with electric dryers | 69.7% | 0.0% | 0.30 |
| 4041 | Refrigerator Recycling with Replacement | SFA | NLI | Retrofit | 1,019.1 | 42.8% | 435.8 | 0.049 | 1.00 | 7 | \$120.00 | Retirement and replacement of non-primary refrigerators in homes with more than one refrigerator; replacement unit assumed to be standard efficiency model | 43.0% | 0.0% | 1.15 |
| 4042 | Refrigerator Recycling without Replacement | SFA | NLI | Retrofit | 1,019.1 | 100.0% | 1,019.1 | 0.114 | 1.00 | 8 | \$120.00 | Retirement (no replacement) of non-primary refrigerators in homes with more than one refrigerator | 43.0% | 0.0% | 2.98 |
| 4043 | Freezer Recycling with Replacement | SFA | ALL | Retrofit | 1,091.7 | 52.4% | 572.6 | 0.064 | 1.00 | 7 | \$120.00 | Retirement and replacement of non-primary freezers in homes with more than one freezer; replacement unit assumed to be standard efficiency model | 9.0% | 0.0% | 1.51 |
| 4044 | Freezer Recycling without Replacement | SFA | ALL | Retrofit | 1,091.7 | 100.0% | 1,091.7 | 0.122 | 1.00 | 8 | \$120.00 | Retirement (no replacement) of non-primary refrigerators in homes with more than one refrigerator | 9.0% | 0.0% | 3.19 |
| 4045 | ENERGY STAR Refrigerators (Top-Mount) | SFA | NLI | ROB | 462.2 | 8.2% | 37.9 | 0.004 | 1.00 | 12 | \$21.83 | Installation of ENERGY STAR top-mount refrigerator instead of standard efficiency unit | 52.5% | 28.0% | 0.82 |
| 4046 | ENERGY STAR Refrigerators (Side-by-Side) | SFA | NLI | ROB | 608.9 | 8.6% | 52.5 | 0.006 | 1.00 | 12 | \$57.31 | Installation of ENERGY STAR side-mount refrigerator instead of standard efficiency unit | 30.7% | 28.0% | 0.43 |
| 4047 | ENERGY STAR Refrigerators (Bottom-Mount) | SFA | NLI | ROB | 644.2 | 8.7% | 55.9 | 0.006 | 1.00 | 12 | \$17.29 | Installation of ENERGY STAR bottom-mount refrigerator instead of standard efficiency unit | 9.9% | 28.0% | 1.53 |
| 4048 | ENERGY STAR Freezers (Upright) | SFA | NLI | ROB | 483.2 | 9.1% | 44.0 | 0.005 | 1.00 | 12 | \$6.75 | Installation of ENERGY STAR upright freezers instead of standard efficiency unit | 18.5% | 13.0% | 3.09 |
| 4049 | ENERGY STAR Freezers (Chest) | SFA | NLI | ROB | 290.1 | 10.0% | 29.0 | 0.003 | 1.00 | 12 | \$5.23 | Installation of ENERGY STAR chest freezers instead of standard efficiency unit | 23.5% | 13.0% | 2.62 |
| 4050 | ENERGY STAR Clothes Washers (Electric Water Heating) | SFA | NLI | ROB | 492.4 | 32.2% | 158.8 | 0.635 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 43.9% | 29.0% | 1.42 |
| 4051 | ENERGY STAR Clothes Washers (Gas Water Heating) | SFA | NLI | ROB | 208.3 | 16.5% | 34.3 | 0.137 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 42.1% | 29.0% | 0.31 |
| 4052 | ENERGY STAR Dishwashers (Electric Water Heating) | SFA | ALL | ROB | 307.0 | 12.1% | 37.0 | 0.158 | 0.03 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with electric water heating | 28.6% | 51.0% | 1.53 |
| 4053 | ENERGY STAR Dishwashers (Gas Water Heating) | SFA | ALL | ROB | 135.1 | 12.1% | 16.3 | 0.070 | 0.03 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with gas water heating | 27.4% | 51.0% | 0.68 |
| 4054 | ENERGY STAR Dehumidifiers | SFA | NLI | ROB | 792.4 | 18.9% | 149.9 | 0.092 | 0.41 | 12 | \$20.21 | Installation of ENERGY STAR dehumidifier instead of standard efficiency unit | 33.0% | 83.9% | 4.09 |
| 4055 | ENERGY STAR Water Coolers | SFA | ALL | ROB | 799.4 | 60.3% | 481.8 | 0.055 | 1.00 | 10 | \$50.00 | Installation of ENERGY STAR water cooler instead of standard efficiency unit | 1.2% | 68.5% | 4.01 |
| 4056 | ENERGY STAR Air Purifier/Cleaner | SFA | ALL | ROB | 587.0 | 66.6% | 391.0 | 0.067 | 1.00 | 9 | \$70.00 | Installation of ENERGY STAR air purifier instead of standard efficiency unit | 4.7% | 33.3% | 2.30 |
| 4057 | ENERGY STAR Dryers | SFA | ALL | ROB | 538.0 | 5.1% | 27.4 | 0.115 | 0.04 | 13 | \$50.00 | Installation of ENERGY STAR dryer instead of standard efficiency unit in homes with electric dryers | 69.7% | 25.0% | 0.30 |
| 4058 | Refrigerator Recycling with Replacement | SFA | LI | Retrofit | 1,019.1 | 42.8% | 435.8 | 0.049 | 1.00 | 7 | \$120.00 | Retirement and replacement of non-primary refrigerators in homes with more than one refrigerator; replacement unit assumed to be standard efficiency model | 43.0% | 0.0% | 1.15 |
| 4059 | Refrigerator Recycling without Replacement | SFA | LI | Retrofit | 1,019.1 | 100.0% | 1,019.1 | 0.114 | 1.00 | 8 | \$120.00 | Retirement (no replacement) of non-primary refrigerators in homes with more than one refrigerator | 43.0% | 0.0% | 2.98 |
| 4060 | ENERGY STAR Refrigerators (Top-Mount) | SFA | LI | ROB | 462.2 | 8.2% | 37.9 | 0.004 | 1.00 | 12 | \$21.83 | Installation of ENERGY STAR top-mount refrigerator instead of standard efficiency unit | 52.5% | 28.0% | 0.82 |
| 4061 | ENERGY STAR Refrigerators (Side-by-Side) | SFA | LI | ROB | 608.9 | 8.6% | 52.5 | 0.006 | 1.00 | 12 | \$57.31 | Installation of ENERGY STAR side-mount refrigerator instead of standard efficiency unit | 30.7% | 28.0% | 0.43 |

Measure Assumptions - West Penn Power

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|--|-----------------|---------------|-------------------|
| 4062 | ENERGY STAR Refrigerators (Bottom-Mount) | SFA | LI | ROB | 644.2 | 8.7% | 55.9 | 0.006 | 1.00 | 12 | \$17.29 | Installation of ENERGY STAR bottom-mount refrigerator instead of standard efficiency unit | 9.9% | 28.0% | 1.53 |
| 4063 | ENERGY STAR Freezers (Upright) | SFA | LI | ROB | 483.2 | 9.1% | 44.0 | 0.005 | 1.00 | 12 | \$6.75 | Installation of ENERGY STAR upright freezers instead of standard efficiency unit | 18.5% | 13.0% | 3.09 |
| 4064 | ENERGY STAR Freezers (Chest) | SFA | LI | ROB | 290.1 | 10.0% | 29.0 | 0.003 | 1.00 | 12 | \$5.23 | Installation of ENERGY STAR chest freezers instead of standard efficiency unit | 23.5% | 13.0% | 2.62 |
| 4065 | ENERGY STAR Clothes Washers (Electric Water Heating) | SFA | LI | ROB | 492.4 | 32.2% | 158.8 | 0.635 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 43.9% | 29.0% | 1.42 |
| 4066 | ENERGY STAR Clothes Washers (Gas Water Heating) | SFA | LI | ROB | 208.3 | 16.5% | 34.3 | 0.137 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 42.1% | 29.0% | 0.31 |
| 4067 | ENERGY STAR Dehumidifiers | SFA | LI | ROB | 792.4 | 18.9% | 149.9 | 0.092 | 0.41 | 12 | \$20.21 | Installation of ENERGY STAR dehumidifier instead of standard efficiency unit | 33.0% | 83.9% | 4.09 |
| 4068 | ENERGY STAR Refrigerators (Top-Mount) | SFA | ALL | NC | 462.2 | 8.2% | 37.9 | 0.004 | 1.00 | 12 | \$21.83 | Installation of ENERGY STAR top-mount refrigerator instead of standard efficiency unit | 52.5% | 0.0% | 0.82 |
| 4069 | ENERGY STAR Refrigerators (Side-by-Side) | SFA | ALL | NC | 608.9 | 8.6% | 52.5 | 0.006 | 1.00 | 12 | \$57.31 | Installation of ENERGY STAR side-mount refrigerator instead of standard efficiency unit | 30.7% | 0.0% | 0.43 |
| 4070 | ENERGY STAR Refrigerators (Bottom-Mount) | SFA | ALL | NC | 644.2 | 8.7% | 55.9 | 0.006 | 1.00 | 12 | \$17.29 | Installation of ENERGY STAR bottom-mount refrigerator instead of standard efficiency unit | 9.9% | 0.0% | 1.53 |
| 4071 | ENERGY STAR Freezers (Upright) | SFA | ALL | NC | 483.2 | 9.1% | 44.0 | 0.005 | 1.00 | 12 | \$6.75 | Installation of ENERGY STAR upright freezers instead of standard efficiency unit | 18.5% | 0.0% | 3.09 |
| 4072 | ENERGY STAR Freezers (Chest) | SFA | ALL | NC | 290.1 | 10.0% | 29.0 | 0.003 | 1.00 | 12 | \$5.23 | Installation of ENERGY STAR chest freezers instead of standard efficiency unit | 23.5% | 0.0% | 2.62 |
| 4073 | ENERGY STAR Clothes Washers (Electric Water Heating) | SFA | ALL | NC | 492.4 | 32.2% | 158.8 | 0.635 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 43.9% | 0.0% | 1.42 |
| 4074 | ENERGY STAR Clothes Washers (Gas Water Heating) | SFA | ALL | NC | 208.3 | 16.5% | 34.3 | 0.137 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 42.1% | 0.0% | 0.31 |
| 4075 | ENERGY STAR Dishwashers (Electric Water Heating) | SFA | ALL | NC | 307.0 | 12.1% | 37.0 | 0.158 | 0.03 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with electric water heating | 28.6% | 0.0% | 1.53 |
| 4076 | ENERGY STAR Dishwashers (Gas Water Heating) | SFA | ALL | NC | 135.1 | 12.1% | 16.3 | 0.070 | 0.03 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with gas water heating | 27.4% | 0.0% | 0.68 |
| 4077 | ENERGY STAR Dehumidifiers | SFA | ALL | NC | 792.4 | 18.9% | 149.9 | 0.092 | 0.41 | 12 | \$20.21 | Installation of ENERGY STAR dehumidifier instead of standard efficiency unit | 33.0% | 0.0% | 4.09 |
| 4078 | ENERGY STAR Water Coolers | SFA | ALL | NC | 799.4 | 60.3% | 481.8 | 0.055 | 1.00 | 10 | \$50.00 | Installation of ENERGY STAR water cooler instead of standard efficiency unit | 1.2% | 0.0% | 4.01 |
| 4079 | ENERGY STAR Air Purifier/Cleaner | SFA | ALL | NC | 587.0 | 66.6% | 391.0 | 0.067 | 1.00 | 9 | \$70.00 | Installation of ENERGY STAR air purifier instead of standard efficiency unit | 4.7% | 0.0% | 2.30 |
| 4080 | ENERGY STAR Dryers | SFA | ALL | NC | 538.0 | 5.1% | 27.4 | 0.115 | 0.04 | 13 | \$50.00 | Installation of ENERGY STAR dryer instead of standard efficiency unit in homes with electric dryers | 69.7% | 0.0% | 0.30 |
| 4081 | Refrigerator Recycling with Replacement | MF | NLI | Retrofit | 1,019.1 | 42.8% | 435.8 | 0.049 | 1.00 | 7 | \$120.00 | Retirement and replacement of non-primary refrigerators in homes with more than one refrigerator; replacement unit assumed to be standard efficiency model | 43.0% | 0.0% | 1.15 |
| 4082 | Refrigerator Recycling without Replacement | MF | NLI | Retrofit | 1,019.1 | 100.0% | 1,019.1 | 0.114 | 1.00 | 8 | \$120.00 | Retirement (no replacement) of non-primary refrigerators in homes with more than one refrigerator | 43.0% | 0.0% | 2.98 |
| 4083 | Freezer Recycling with Replacement | MF | ALL | Retrofit | 1,091.7 | 52.4% | 572.6 | 0.064 | 1.00 | 7 | \$120.00 | Retirement and replacement of non-primary freezers in homes with more than one freezer; replacement unit assumed to be standard efficiency model | 9.0% | 0.0% | 1.51 |
| 4084 | Freezer Recycling without Replacement | MF | ALL | Retrofit | 1,091.7 | 100.0% | 1,091.7 | 0.122 | 1.00 | 8 | \$120.00 | Retirement (no replacement) of non-primary refrigerators in homes with more than one refrigerator | 9.0% | 0.0% | 3.19 |
| 4085 | ENERGY STAR Refrigerators (Top-Mount) | MF | NLI | ROB | 462.2 | 8.2% | 37.9 | 0.004 | 1.00 | 12 | \$21.83 | Installation of ENERGY STAR top-mount refrigerator instead of standard efficiency unit | 52.5% | 28.0% | 0.82 |
| 4086 | ENERGY STAR Refrigerators (Side-by-Side) | MF | NLI | ROB | 608.9 | 8.6% | 52.5 | 0.006 | 1.00 | 12 | \$57.31 | Installation of ENERGY STAR side-mount refrigerator instead of standard efficiency unit | 30.7% | 28.0% | 0.43 |
| 4087 | ENERGY STAR Refrigerators (Bottom-Mount) | MF | NLI | ROB | 644.2 | 8.7% | 55.9 | 0.006 | 1.00 | 12 | \$17.29 | Installation of ENERGY STAR bottom-mount refrigerator instead of standard efficiency unit | 9.9% | 28.0% | 1.53 |
| 4088 | ENERGY STAR Freezers (Upright) | MF | NLI | ROB | 483.2 | 9.1% | 44.0 | 0.005 | 1.00 | 12 | \$6.75 | Installation of ENERGY STAR upright freezers instead of standard efficiency unit | 18.5% | 13.0% | 3.09 |
| 4089 | ENERGY STAR Freezers (Chest) | MF | NLI | ROB | 290.1 | 10.0% | 29.0 | 0.003 | 1.00 | 12 | \$5.23 | Installation of ENERGY STAR chest freezers instead of standard efficiency unit | 23.5% | 13.0% | 2.62 |
| 4090 | ENERGY STAR Clothes Washers (Electric Water Heating) | MF | NLI | ROB | 492.4 | 32.2% | 158.8 | 0.635 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 43.9% | 29.0% | 1.42 |
| 4091 | ENERGY STAR Clothes Washers (Gas Water Heating) | MF | NLI | ROB | 208.3 | 16.5% | 34.3 | 0.137 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 42.1% | 29.0% | 0.31 |
| 4092 | ENERGY STAR Dishwashers (Electric Water Heating) | MF | ALL | ROB | 307.0 | 12.1% | 37.0 | 0.158 | 0.03 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with electric water heating | 28.6% | 51.0% | 1.53 |

Measure Assumptions - West Penn Power

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|--|-----------------|---------------|-------------------|
| 4093 | ENERGY STAR Dishwashers (Gas Water Heating) | MF | ALL | ROB | 135.1 | 12.1% | 16.3 | 0.070 | 0.03 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with gas water heating | 27.4% | 51.0% | 0.68 |
| 4094 | ENERGY STAR Dehumidifiers | MF | NLI | ROB | 792.4 | 18.9% | 149.9 | 0.092 | 0.41 | 12 | \$20.21 | Installation of ENERGY STAR dehumidifier instead of standard efficiency unit | 33.0% | 83.9% | 4.09 |
| 4095 | ENERGY STAR Water Coolers | MF | ALL | ROB | 799.4 | 60.3% | 481.8 | 0.055 | 1.00 | 10 | \$50.00 | Installation of ENERGY STAR water cooler instead of standard efficiency unit | 1.2% | 68.5% | 4.01 |
| 4096 | ENERGY STAR Air Purifier/Cleaner | MF | ALL | ROB | 587.0 | 66.6% | 391.0 | 0.067 | 1.00 | 9 | \$70.00 | Installation of ENERGY STAR air purifier instead of standard efficiency unit | 4.7% | 33.3% | 2.30 |
| 4097 | ENERGY STAR Dryers | MF | ALL | ROB | 538.0 | 5.1% | 27.4 | 0.115 | 0.04 | 13 | \$50.00 | Installation of ENERGY STAR dryer instead of standard efficiency unit in homes with electric dryers | 69.7% | 25.0% | 0.30 |
| 4098 | Refrigerator Recycling with Replacement | MF | LI | Retrofit | 1,019.1 | 42.8% | 435.8 | 0.049 | 1.00 | 7 | \$120.00 | Retirement and replacement of non-primary refrigerators in homes with more than one refrigerator; replacement unit assumed to be standard efficiency model | 43.0% | 0.0% | 1.15 |
| 4099 | Refrigerator Recycling without Replacement | MF | LI | Retrofit | 1,019.1 | 100.0% | 1,019.1 | 0.114 | 1.00 | 8 | \$120.00 | Retirement (no replacement) of non-primary refrigerators in homes with more than one refrigerator | 43.0% | 0.0% | 2.98 |
| 4100 | ENERGY STAR Refrigerators (Top-Mount) | MF | LI | ROB | 462.2 | 8.2% | 37.9 | 0.004 | 1.00 | 12 | \$21.83 | Installation of ENERGY STAR top-mount refrigerator instead of standard efficiency unit | 52.5% | 28.0% | 0.82 |
| 4101 | ENERGY STAR Refrigerators (Side-by-Side) | MF | LI | ROB | 608.9 | 8.6% | 52.5 | 0.006 | 1.00 | 12 | \$57.31 | Installation of ENERGY STAR side-mount refrigerator instead of standard efficiency unit | 30.7% | 28.0% | 0.43 |
| 4102 | ENERGY STAR Refrigerators (Bottom-Mount) | MF | LI | ROB | 644.2 | 8.7% | 55.9 | 0.006 | 1.00 | 12 | \$17.29 | Installation of ENERGY STAR bottom-mount refrigerator instead of standard efficiency unit | 9.9% | 28.0% | 1.53 |
| 4103 | ENERGY STAR Freezers (Upright) | MF | LI | ROB | 483.2 | 9.1% | 44.0 | 0.005 | 1.00 | 12 | \$6.75 | Installation of ENERGY STAR upright freezers instead of standard efficiency unit | 18.5% | 13.0% | 3.09 |
| 4104 | ENERGY STAR Freezers (Chest) | MF | LI | ROB | 290.1 | 10.0% | 29.0 | 0.003 | 1.00 | 12 | \$5.23 | Installation of ENERGY STAR chest freezers instead of standard efficiency unit | 23.5% | 13.0% | 2.62 |
| 4105 | ENERGY STAR Clothes Washers (Electric Water Heating) | MF | LI | ROB | 492.4 | 32.2% | 158.8 | 0.635 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 43.9% | 29.0% | 1.42 |
| 4106 | ENERGY STAR Clothes Washers (Gas Water Heating) | MF | LI | ROB | 208.3 | 16.5% | 34.3 | 0.137 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 42.1% | 29.0% | 0.31 |
| 4107 | ENERGY STAR Dehumidifiers | MF | LI | ROB | 792.4 | 18.9% | 149.9 | 0.092 | 0.41 | 12 | \$20.21 | Installation of ENERGY STAR dehumidifier instead of standard efficiency unit | 33.0% | 83.9% | 4.09 |
| 4108 | ENERGY STAR Refrigerators (Top-Mount) | MF | ALL | NC | 462.2 | 8.2% | 37.9 | 0.004 | 1.00 | 12 | \$21.83 | Installation of ENERGY STAR top-mount refrigerator instead of standard efficiency unit | 52.5% | 0.0% | 0.82 |
| 4109 | ENERGY STAR Refrigerators (Side-by-Side) | MF | ALL | NC | 608.9 | 8.6% | 52.5 | 0.006 | 1.00 | 12 | \$57.31 | Installation of ENERGY STAR side-mount refrigerator instead of standard efficiency unit | 30.7% | 0.0% | 0.43 |
| 4110 | ENERGY STAR Refrigerators (Bottom-Mount) | MF | ALL | NC | 644.2 | 8.7% | 55.9 | 0.006 | 1.00 | 12 | \$17.29 | Installation of ENERGY STAR bottom-mount refrigerator instead of standard efficiency unit | 9.9% | 0.0% | 1.53 |
| 4111 | ENERGY STAR Freezers (Upright) | MF | ALL | NC | 483.2 | 9.1% | 44.0 | 0.005 | 1.00 | 12 | \$6.75 | Installation of ENERGY STAR upright freezers instead of standard efficiency unit | 18.5% | 0.0% | 3.09 |
| 4112 | ENERGY STAR Freezers (Chest) | MF | ALL | NC | 290.1 | 10.0% | 29.0 | 0.003 | 1.00 | 12 | \$5.23 | Installation of ENERGY STAR chest freezers instead of standard efficiency unit | 23.5% | 0.0% | 2.62 |
| 4113 | ENERGY STAR Clothes Washers (Electric Water Heating) | MF | ALL | NC | 492.4 | 32.2% | 158.8 | 0.635 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 43.9% | 0.0% | 1.42 |
| 4114 | ENERGY STAR Clothes Washers (Gas Water Heating) | MF | ALL | NC | 208.3 | 16.5% | 34.3 | 0.137 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 42.1% | 0.0% | 0.31 |
| 4115 | ENERGY STAR Dishwashers (Electric Water Heating) | MF | ALL | NC | 307.0 | 12.1% | 37.0 | 0.158 | 0.03 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with electric water heating | 28.6% | 0.0% | 1.53 |
| 4116 | ENERGY STAR Dishwashers (Gas Water Heating) | MF | ALL | NC | 135.1 | 12.1% | 16.3 | 0.070 | 0.03 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with gas water heating | 27.4% | 0.0% | 0.68 |
| 4117 | ENERGY STAR Dehumidifiers | MF | ALL | NC | 792.4 | 18.9% | 149.9 | 0.092 | 0.41 | 12 | \$20.21 | Installation of ENERGY STAR dehumidifier instead of standard efficiency unit | 33.0% | 0.0% | 4.09 |
| 4118 | ENERGY STAR Water Coolers | MF | ALL | NC | 799.4 | 60.3% | 481.8 | 0.055 | 1.00 | 10 | \$50.00 | Installation of ENERGY STAR water cooler instead of standard efficiency unit | 1.2% | 0.0% | 4.01 |
| 4119 | ENERGY STAR Air Purifier/Cleaner | MF | ALL | NC | 587.0 | 66.6% | 391.0 | 0.067 | 1.00 | 9 | \$70.00 | Installation of ENERGY STAR air purifier instead of standard efficiency unit | 4.7% | 0.0% | 2.30 |
| 4120 | ENERGY STAR Dryers | MF | ALL | NC | 538.0 | 5.1% | 27.4 | 0.115 | 0.04 | 13 | \$50.00 | Installation of ENERGY STAR dryer instead of standard efficiency unit in homes with electric dryers | 69.7% | 0.0% | 0.30 |
| 5000 | Consumer Electronics | | | | | | | | | | | | | | |
| 5001 | Smart Strip Plug Outlets - Home Office | SFD | NLI | Retrofit | 48.9 | 100.0% | 48.9 | 0.007 | 0.83 | 10 | \$32.97 | Smart strip plug outlet for home office centers | 86.4% | 10.7% | 0.62 |
| 5002 | Smart Strip Plug Outlets - Entertainment Center | SFD | NLI | Retrofit | 62.1 | 100.0% | 62.1 | 0.009 | 0.90 | 10 | \$32.97 | Smart strip plug outlet for home entertainment centers | 178.8% | 5.6% | 0.79 |
| 5003 | ENERGY STAR Televisions > 50" | SFD | ALL | ROB | 197.1 | 49.3% | 97.1 | 0.053 | 0.17 | 6 | \$1.00 | Installation of high efficiency > 50" diameter television instead of a standard efficiency unit | 79.3% | 86.0% | 26.48 |
| 5004 | ENERGY STAR Televisions < 50" | SFD | ALL | ROB | 96.2 | 49.2% | 47.4 | 0.026 | 0.17 | 6 | \$1.00 | Installation of high efficiency < 50" diameter television instead of a standard efficiency unit | 184.9% | 86.0% | 12.92 |
| 5005 | ENERGY STAR Computer - Desktop | SFD | ALL | ROB | 165.6 | 42.7% | 70.7 | 0.022 | 0.76 | 4 | \$8.00 | Installation of high efficiency desktop computer instead of a standard efficiency unit | 62.0% | 27.5% | 1.99 |

Measure Assumptions - West Penn Power

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|---|--------------------------|---------------|-------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|---|-----------------|---------------|-------------------|
| 5006 | ENERGY STAR Computer - Laptop | SFD | ALL | ROB | 52.8 | 40.8% | 21.5 | 0.007 | 0.76 | 4 | \$1.00 | Installation of high efficiency laptop computer instead of a standard efficiency unit | 98.0% | 75.5% | 4.85 |
| 5007 | ENERGY STAR Fax Machine | SFD | ALL | ROB | 52.1 | 30.0% | 15.6 | 0.002 | 1.00 | 4 | \$1.00 | Installation of high efficiency fax machine instead of a standard efficiency unit | 3.0% | 6.5% | 3.16 |
| 5008 | ENERGY STAR Copier | SFD | ALL | ROB | 182.5 | 25.7% | 46.9 | 0.022 | 0.28 | 6 | \$1.00 | Installation of high efficiency copier instead of a standard efficiency unit | 4.2% | 77.8% | 13.44 |
| 5009 | ENERGY STAR Printer | SFD | ALL | ROB | 43.8 | 55.0% | 24.1 | 0.006 | 0.59 | 5 | \$1.00 | Installation of high efficiency printer instead of a standard efficiency unit | 29.4% | 95.0% | 5.91 |
| 5010 | ENERGY STAR Multifunction | SFD | ALL | ROB | 70.1 | 66.3% | 46.4 | 0.011 | 0.59 | 6 | \$1.00 | Installation of high efficiency multifunction device instead of a standard efficiency unit | 53.2% | 95.0% | 13.30 |
| 5011 | ENERGY STAR Monitors | SFD | ALL | ROB | 73.6 | 32.4% | 23.8 | 0.013 | 0.26 | 4 | \$1.80 | Installation of high efficiency monitors instead of a standard efficiency unit | 62.0% | 73.3% | 2.67 |
| 5012 | Smart Strip Plug Outlets - Home Office | SFD | LI | Retrofit | 48.9 | 100.0% | 48.9 | 0.007 | 0.83 | 10 | \$32.97 | Smart strip plug outlet for home office centers | 86.4% | 10.7% | 0.62 |
| 5013 | Smart Strip Plug Outlets - Entertainment Center | SFD | LI | Retrofit | 62.1 | 100.0% | 62.1 | 0.009 | 0.90 | 10 | \$32.97 | Smart strip plug outlet for home entertainment centers | 178.8% | 5.6% | 0.79 |
| 5014 | Smart Strip Plug Outlets - Home Office | SFD | ALL | NC | 48.9 | 100.0% | 48.9 | 0.007 | 0.83 | 10 | \$32.97 | Smart strip plug outlet for home office centers | 86.4% | 0.0% | 0.62 |
| 5015 | Smart Strip Plug Outlets - Entertainment Center | SFD | ALL | NC | 62.1 | 100.0% | 62.1 | 0.009 | 0.90 | 10 | \$32.97 | Smart strip plug outlet for home entertainment centers | 178.8% | 0.0% | 0.79 |
| 5016 | ENERGY STAR Televisions > 50" | SFD | ALL | NC | 197.1 | 49.3% | 97.1 | 0.053 | 0.17 | 6 | \$1.00 | Installation of high efficiency > 50" diameter television instead of a standard efficiency unit | 79.3% | 0.0% | 26.48 |
| 5017 | ENERGY STAR Televisions < 50" | SFD | ALL | NC | 96.2 | 49.2% | 47.4 | 0.026 | 0.17 | 6 | \$1.00 | Installation of high efficiency < 50" diameter television instead of a standard efficiency unit | 184.9% | 0.0% | 12.92 |
| 5018 | ENERGY STAR Computer - Desktop | SFD | ALL | NC | 165.6 | 42.7% | 70.7 | 0.022 | 0.76 | 4 | \$8.00 | Installation of high efficiency desktop computer instead of a standard efficiency unit | 62.0% | 0.0% | 1.99 |
| 5019 | ENERGY STAR Computer - Laptop | SFD | ALL | NC | 52.8 | 40.8% | 21.5 | 0.007 | 0.76 | 4 | \$1.00 | Installation of high efficiency laptop computer instead of a standard efficiency unit | 98.0% | 0.0% | 4.85 |
| 5020 | ENERGY STAR Fax Machine | SFD | ALL | NC | 52.1 | 30.0% | 15.6 | 0.002 | 1.00 | 4 | \$1.00 | Installation of high efficiency fax machine instead of a standard efficiency unit | 3.0% | 0.0% | 3.16 |
| 5021 | ENERGY STAR Copier | SFD | ALL | NC | 182.5 | 25.7% | 46.9 | 0.022 | 0.28 | 6 | \$1.00 | Installation of high efficiency copier instead of a standard efficiency unit | 4.2% | 0.0% | 13.44 |
| 5022 | ENERGY STAR Printer | SFD | ALL | NC | 43.8 | 55.0% | 24.1 | 0.006 | 0.59 | 5 | \$1.00 | Installation of high efficiency printer instead of a standard efficiency unit | 29.4% | 0.0% | 5.91 |
| 5023 | ENERGY STAR Multifunction | SFD | ALL | NC | 70.1 | 66.3% | 46.4 | 0.011 | 0.59 | 6 | \$1.00 | Installation of high efficiency multifunction device instead of a standard efficiency unit | 53.2% | 0.0% | 13.30 |
| 5024 | ENERGY STAR Monitors | SFD | ALL | NC | 73.6 | 32.4% | 23.8 | 0.013 | 0.26 | 4 | \$1.80 | Installation of high efficiency monitors instead of a standard efficiency unit | 62.0% | 0.0% | 2.67 |
| 5025 | Smart Strip Plug Outlets - Home Office | SFA | NLI | Retrofit | 48.9 | 100.0% | 48.9 | 0.007 | 0.83 | 10 | \$32.97 | Smart strip plug outlet for home office centers | 86.4% | 10.7% | 0.62 |
| 5026 | Smart Strip Plug Outlets - Entertainment Center | SFA | NLI | Retrofit | 62.1 | 100.0% | 62.1 | 0.009 | 0.90 | 10 | \$32.97 | Smart strip plug outlet for home entertainment centers | 157.7% | 5.6% | 0.79 |
| 5027 | ENERGY STAR Televisions > 50" | SFA | ALL | ROB | 197.1 | 49.1% | 96.9 | 0.053 | 0.17 | 6 | \$1.00 | Installation of high efficiency > 50" diameter television instead of a standard efficiency unit | 69.9% | 86.0% | 26.42 |
| 5028 | ENERGY STAR Televisions < 50" | SFA | ALL | ROB | 98.1 | 49.3% | 48.4 | 0.027 | 0.17 | 6 | \$1.00 | Installation of high efficiency < 50" diameter television instead of a standard efficiency unit | 163.2% | 86.0% | 13.19 |
| 5029 | ENERGY STAR Computer - Desktop | SFA | ALL | ROB | 165.6 | 42.7% | 70.7 | 0.022 | 0.76 | 4 | \$8.00 | Installation of high efficiency desktop computer instead of a standard efficiency unit | 62.0% | 27.5% | 1.99 |
| 5030 | ENERGY STAR Computer - Laptop | SFA | ALL | ROB | 52.8 | 40.8% | 21.5 | 0.007 | 0.76 | 4 | \$1.00 | Installation of high efficiency laptop computer instead of a standard efficiency unit | 98.0% | 75.5% | 4.85 |
| 5031 | ENERGY STAR Fax Machine | SFA | ALL | ROB | 52.1 | 30.0% | 15.6 | 0.002 | 1.00 | 4 | \$1.00 | Installation of high efficiency fax machine instead of a standard efficiency unit | 3.0% | 6.5% | 3.16 |
| 5032 | ENERGY STAR Copier | SFA | ALL | ROB | 182.5 | 25.7% | 46.9 | 0.022 | 0.28 | 6 | \$1.00 | Installation of high efficiency copier instead of a standard efficiency unit | 1.7% | 77.8% | 13.44 |
| 5033 | ENERGY STAR Printer | SFA | ALL | ROB | 43.8 | 55.0% | 24.1 | 0.006 | 0.59 | 5 | \$1.00 | Installation of high efficiency printer instead of a standard efficiency unit | 29.0% | 95.0% | 5.91 |
| 5034 | ENERGY STAR Multifunction | SFA | ALL | ROB | 70.1 | 66.3% | 46.4 | 0.011 | 0.59 | 6 | \$1.00 | Installation of high efficiency multifunction device instead of a standard efficiency unit | 45.0% | 95.0% | 13.30 |
| 5035 | ENERGY STAR Monitors | SFA | ALL | ROB | 73.6 | 32.4% | 23.8 | 0.013 | 0.26 | 4 | \$1.80 | Installation of high efficiency monitors instead of a standard efficiency unit | 62.0% | 73.3% | 2.67 |
| 5036 | Smart Strip Plug Outlets - Home Office | SFA | LI | Retrofit | 48.9 | 100.0% | 48.9 | 0.007 | 0.83 | 10 | \$32.97 | Smart strip plug outlet for home office centers | 86.4% | 10.7% | 0.62 |
| 5037 | Smart Strip Plug Outlets - Entertainment Center | SFA | LI | Retrofit | 62.1 | 100.0% | 62.1 | 0.009 | 0.90 | 10 | \$32.97 | Smart strip plug outlet for home entertainment centers | 157.7% | 5.6% | 0.79 |
| 5038 | Smart Strip Plug Outlets - Home Office | SFA | ALL | NC | 48.9 | 100.0% | 48.9 | 0.007 | 0.83 | 10 | \$32.97 | Smart strip plug outlet for home office centers | 86.4% | 0.0% | 0.62 |
| 5039 | Smart Strip Plug Outlets - Entertainment Center | SFA | ALL | NC | 62.1 | 100.0% | 62.1 | 0.009 | 0.90 | 10 | \$32.97 | Smart strip plug outlet for home entertainment centers | 157.7% | 0.0% | 0.79 |
| 5040 | ENERGY STAR Televisions > 50" | SFA | ALL | NC | 197.1 | 49.1% | 96.9 | 0.053 | 0.17 | 6 | \$1.00 | Installation of high efficiency > 50" diameter television instead of a standard efficiency unit | 69.9% | 0.0% | 26.42 |
| 5041 | ENERGY STAR Televisions < 50" | SFA | ALL | NC | 98.1 | 49.3% | 48.4 | 0.027 | 0.17 | 6 | \$1.00 | Installation of high efficiency < 50" diameter television instead of a standard efficiency unit | 163.2% | 0.0% | 13.19 |
| 5042 | ENERGY STAR Computer - Desktop | SFA | ALL | NC | 165.6 | 42.7% | 70.7 | 0.022 | 0.76 | 4 | \$8.00 | Installation of high efficiency desktop computer instead of a standard efficiency unit | 62.0% | 0.0% | 1.99 |
| 5043 | ENERGY STAR Computer - Laptop | SFA | ALL | NC | 52.8 | 40.8% | 21.5 | 0.007 | 0.76 | 4 | \$1.00 | Installation of high efficiency laptop computer instead of a standard efficiency unit | 98.0% | 0.0% | 4.85 |
| 5044 | ENERGY STAR Fax Machine | SFA | ALL | NC | 52.1 | 30.0% | 15.6 | 0.002 | 1.00 | 4 | \$1.00 | Installation of high efficiency fax machine instead of a standard efficiency unit | 3.0% | 0.0% | 3.16 |
| 5045 | ENERGY STAR Copier | SFA | ALL | NC | 182.5 | 25.7% | 46.9 | 0.022 | 0.28 | 6 | \$1.00 | Installation of high efficiency copier instead of a standard efficiency unit | 1.7% | 0.0% | 13.44 |

Measure Assumptions - West Penn Power

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|---|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|--|-----------------|---------------|-------------------|
| 5046 | ENERGY STAR Printer | SFA | ALL | NC | 43.8 | 55.0% | 24.1 | 0.006 | 0.59 | 5 | \$1.00 | Installation of high efficiency printer instead of a standard efficiency unit | 29.0% | 0.0% | 5.91 |
| 5047 | ENERGY STAR Multifunction | SFA | ALL | NC | 70.1 | 66.3% | 46.4 | 0.011 | 0.59 | 6 | \$1.00 | Installation of high efficiency multifunction device instead of a standard efficiency unit | 45.0% | 0.0% | 13.30 |
| 5048 | ENERGY STAR Monitors | SFA | ALL | NC | 73.6 | 32.4% | 23.8 | 0.013 | 0.26 | 4 | \$1.80 | Installation of high efficiency monitors instead of a standard efficiency unit | 62.0% | 0.0% | 2.67 |
| 5049 | Smart Strip Plug Outlets - Home Office | MF | NLI | Retrofit | 48.9 | 100.0% | 48.9 | 0.007 | 0.83 | 10 | \$32.97 | Smart strip plug outlet for home office centers | 86.4% | 10.7% | 0.62 |
| 5050 | Smart Strip Plug Outlets - Entertainment Center | MF | NLI | Retrofit | 62.1 | 100.0% | 62.1 | 0.009 | 0.90 | 10 | \$32.97 | Smart strip plug outlet for home entertainment centers | 118.0% | 5.6% | 0.79 |
| 5051 | ENERGY STAR Televisions > 50" | MF | ALL | ROB | 197.1 | 50.0% | 98.6 | 0.054 | 0.17 | 6 | \$1.00 | Installation of high efficiency > 50" diameter television instead of a standard efficiency unit | 52.3% | 86.0% | 26.88 |
| 5052 | ENERGY STAR Televisions < 50" | MF | ALL | ROB | 89.1 | 48.7% | 43.4 | 0.024 | 0.17 | 6 | \$1.00 | Installation of high efficiency < 50" diameter television instead of a standard efficiency unit | 122.1% | 86.0% | 11.83 |
| 5053 | ENERGY STAR Computer - Desktop | MF | ALL | ROB | 165.6 | 42.7% | 70.7 | 0.022 | 0.76 | 4 | \$8.00 | Installation of high efficiency desktop computer instead of a standard efficiency unit | 62.0% | 27.5% | 1.99 |
| 5054 | ENERGY STAR Computer - Laptop | MF | ALL | ROB | 52.8 | 40.8% | 21.5 | 0.007 | 0.76 | 4 | \$1.00 | Installation of high efficiency laptop computer instead of a standard efficiency unit | 98.0% | 75.5% | 4.85 |
| 5055 | ENERGY STAR Fax Machine | MF | ALL | ROB | 52.1 | 30.0% | 15.6 | 0.002 | 1.00 | 4 | \$1.00 | Installation of high efficiency fax machine instead of a standard efficiency unit | 3.0% | 6.5% | 3.16 |
| 5056 | ENERGY STAR Copier | MF | ALL | ROB | 182.5 | 25.7% | 46.9 | 0.022 | 0.28 | 6 | \$1.00 | Installation of high efficiency copier instead of a standard efficiency unit | 1.1% | 77.8% | 13.44 |
| 5057 | ENERGY STAR Printer | MF | ALL | ROB | 43.8 | 55.0% | 24.1 | 0.006 | 0.59 | 5 | \$1.00 | Installation of high efficiency printer instead of a standard efficiency unit | 12.6% | 95.0% | 5.91 |
| 5058 | ENERGY STAR Multifunction | MF | ALL | ROB | 70.1 | 66.3% | 46.4 | 0.011 | 0.59 | 6 | \$1.00 | Installation of high efficiency multifunction device instead of a standard efficiency unit | 30.3% | 95.0% | 13.30 |
| 5059 | ENERGY STAR Monitors | MF | ALL | ROB | 73.6 | 32.4% | 23.8 | 0.013 | 0.26 | 4 | \$1.80 | Installation of high efficiency monitors instead of a standard efficiency unit | 62.0% | 73.3% | 2.67 |
| 5060 | Smart Strip Plug Outlets - Home Office | MF | LI | Retrofit | 48.9 | 100.0% | 48.9 | 0.007 | 0.83 | 10 | \$32.97 | Smart strip plug outlet for home office centers | 86.4% | 10.7% | 0.62 |
| 5061 | Smart Strip Plug Outlets - Entertainment Center | MF | LI | Retrofit | 62.1 | 100.0% | 62.1 | 0.009 | 0.90 | 10 | \$32.97 | Smart strip plug outlet for home entertainment centers | 118.0% | 5.6% | 0.79 |
| 5062 | Smart Strip Plug Outlets - Home Office | MF | ALL | NC | 48.9 | 100.0% | 48.9 | 0.007 | 0.83 | 10 | \$32.97 | Smart strip plug outlet for home office centers | 86.4% | 0.0% | 0.62 |
| 5063 | Smart Strip Plug Outlets - Entertainment Center | MF | ALL | NC | 62.1 | 100.0% | 62.1 | 0.009 | 0.90 | 10 | \$32.97 | Smart strip plug outlet for home entertainment centers | 118.0% | 0.0% | 0.79 |
| 5064 | ENERGY STAR Televisions > 50" | MF | ALL | NC | 197.1 | 50.0% | 98.6 | 0.054 | 0.17 | 6 | \$1.00 | Installation of high efficiency > 50" diameter television instead of a standard efficiency unit | 52.3% | 0.0% | 26.88 |
| 5065 | ENERGY STAR Televisions < 50" | MF | ALL | NC | 89.1 | 48.7% | 43.4 | 0.024 | 0.17 | 6 | \$1.00 | Installation of high efficiency < 50" diameter television instead of a standard efficiency unit | 122.1% | 0.0% | 11.83 |
| 5066 | ENERGY STAR Computer - Desktop | MF | ALL | NC | 165.6 | 42.7% | 70.7 | 0.022 | 0.76 | 4 | \$8.00 | Installation of high efficiency desktop computer instead of a standard efficiency unit | 62.0% | 0.0% | 1.99 |
| 5067 | ENERGY STAR Computer - Laptop | MF | ALL | NC | 52.8 | 40.8% | 21.5 | 0.007 | 0.76 | 4 | \$1.00 | Installation of high efficiency laptop computer instead of a standard efficiency unit | 98.0% | 0.0% | 4.85 |
| 5068 | ENERGY STAR Fax Machine | MF | ALL | NC | 52.1 | 30.0% | 15.6 | 0.002 | 1.00 | 4 | \$1.00 | Installation of high efficiency fax machine instead of a standard efficiency unit | 3.0% | 0.0% | 3.16 |
| 5069 | ENERGY STAR Copier | MF | ALL | NC | 182.5 | 25.7% | 46.9 | 0.022 | 0.28 | 6 | \$1.00 | Installation of high efficiency copier instead of a standard efficiency unit | 1.1% | 0.0% | 13.44 |
| 5070 | ENERGY STAR Printer | MF | ALL | NC | 43.8 | 55.0% | 24.1 | 0.006 | 0.59 | 5 | \$1.00 | Installation of high efficiency printer instead of a standard efficiency unit | 12.6% | 0.0% | 5.91 |
| 5071 | ENERGY STAR Multifunction | MF | ALL | NC | 70.1 | 66.3% | 46.4 | 0.011 | 0.59 | 6 | \$1.00 | Installation of high efficiency multifunction device instead of a standard efficiency unit | 30.3% | 0.0% | 13.30 |
| 5072 | ENERGY STAR Monitors | MF | ALL | NC | 73.6 | 32.4% | 23.8 | 0.013 | 0.26 | 4 | \$1.80 | Installation of high efficiency monitors instead of a standard efficiency unit | 62.0% | 0.0% | 2.67 |
| 6000 | Building Shell | | | | | | | | | | | | | | |
| 6001 | Ceiling Insulation: R-20 to R-60 | SFD | NLI | Retrofit | 7,600.0 | 6.0% | 454.0 | 0.089 | 0.65 | 25 | \$2,911.28 | Addition of R-20 ceiling insulation in adequately insulated homes with heat pumps | 4.9% | 85.5% | 0.09 |
| 6002 | Ceiling Insulation: R-8 to R-38 | SFD | NLI | Retrofit | 8,479.0 | 14.2% | 1,201.0 | 0.237 | 0.65 | 25 | \$2,009.18 | Addition of R-8 ceiling insulation in poorly insulated homes with heat pumps | 4.9% | 92.0% | 0.34 |
| 6003 | Exterior Wall Insulation: R-0 to R-13 | SFD | NLI | Retrofit | 14,249.0 | 47.5% | 6,767.0 | 0.911 | 0.65 | 25 | \$3,170.16 | Addition of exterior wall insulation in poorly homes with heat pumps | 4.9% | 83.0% | 1.17 |
| 6004 | Exterior Wall Insulation: R-0 to R-19 | SFD | NLI | Retrofit | 14,249.0 | 53.2% | 7,579.0 | 1.100 | 0.65 | 25 | \$4,026.96 | Addition of exterior wall insulation in poorly homes with heat pumps | 4.9% | 83.0% | 1.04 |
| 6005 | Floor Insulation: R-0 to R-19 | SFD | NLI | Retrofit | 8,922.0 | 3.0% | 264.0 | -0.222 | 0.65 | 25 | \$2,164.50 | Addition of floor insulation in homes with unconditioned basements or crawl spaces and heat pumps | 0.4% | 61.0% | 0.02 |
| 6006 | Basement Wall Insulation: R-0 to R-13 | SFD | NLI | Retrofit | 7,017.0 | 8.8% | 616.0 | -0.037 | 0.65 | 25 | \$2,816.00 | Addition of basement wall insulation in homes with poorly insulated conditioned basements and heat pumps | 0.6% | 61.0% | 0.10 |
| 6007 | Air Sealing: 13 ACH50 to 9 ACH50 | SFD | NLI | Retrofit | 9,126.0 | 16.7% | 1,526.0 | 0.041 | 0.65 | 15 | \$1,034.00 | Air sealing in poorly sealed homes with heat pumps | 4.9% | 81.0% | 0.74 |
| 6008 | Air Sealing: 9 ACH50 to 7 ACH50 | SFD | NLI | Retrofit | 7,600.0 | 9.4% | 716.0 | 0.018 | 0.65 | 15 | \$1,034.00 | Air sealing in adequately sealed homes with heat pumps | 4.9% | 62.0% | 0.35 |
| 6009 | Duct Sealing: 38.5% to 25% (CFM @25Pa) | SFD | NLI | Retrofit | 7,837.0 | 3.0% | 237.0 | 0.031 | 0.65 | 20 | \$744.00 | Duct sealing in homes with poorly sealed ducts and heat pumps | 4.9% | 65.0% | 0.17 |
| 6010 | Duct Sealing: 25% to 16.25% (CFM @25Pa) | SFD | NLI | Retrofit | 7,600.0 | 2.1% | 162.0 | 0.022 | 0.65 | 20 | \$744.00 | Duct sealing in homes with adequately sealed ducts and heat pumps | 4.9% | 77.0% | 0.12 |
| 6011 | Duct Insulation (R-0 to R-8) | SFD | NLI | Retrofit | 7,811.0 | 3.3% | 255.0 | 0.000 | 0.65 | 20 | \$921.20 | Installation of duct insulation in homes with poorly insulated ducts and heat pumps | 4.9% | 42.0% | 0.14 |

Measure Assumptions - West Penn Power

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|--|-----------------|---------------|-------------------|
| 6012 | Window Film (U=0.51, SHGC=0.24) | SFD | NLI | Retrofit | 8,931.0 | 11.0% | 985.0 | 0.746 | 0.65 | 10 | \$2,328.00 | Installation of window film on single-pane windows in homes with heat pumps | 4.9% | 98.0% | 0.25 |
| 6013 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFD | NLI | Retrofit | 7,600.0 | 4.8% | 363.0 | 0.268 | 0.65 | 20 | \$4,416.54 | Installation of ENERGY STAR windows to replace single-pane windows in homes with heat pumps | 4.9% | 98.0% | 0.07 |
| 6014 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFD | ALL | ROB | 7,600.0 | 4.8% | 363.0 | 0.268 | 0.65 | 20 | \$178.71 | Installation of ENERGY STAR windows instead of double-pane windows in homes with heat pumps | 4.9% | 38.0% | 1.63 |
| 6015 | Radiant Barrier | SFD | ALL | Retrofit | 7,600.0 | 1.0% | 73.0 | 0.053 | 0.65 | 25 | \$1,162.61 | Installation of radiant barriers in homes with heat pumps | 4.9% | 10.0% | 0.05 |
| 6016 | Low Income Weatherization Package | SFD | LI | Retrofit | 9,787.0 | 28.6% | 2,797.0 | 0.194 | 0.65 | 20 | \$7,284.35 | Installation of package of weatherization measures in homes with heat pumps | 4.9% | 85.5% | 0.20 |
| 6017 | Window Film (U=0.51, SHGC=0.24) | SFD | LI | Retrofit | 8,931.0 | 11.0% | 985.0 | 0.746 | 0.65 | 10 | \$2,328.00 | Installation of ENERGY STAR windows to replace single-pane windows in homes with heat pumps | 4.9% | 98.0% | 0.25 |
| 6018 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFD | LI | Retrofit | 7,600.0 | 4.8% | 363.0 | 0.268 | 0.65 | 20 | \$4,416.54 | Installation of ENERGY STAR windows instead of double-pane windows in homes with heat pumps | 4.9% | 98.0% | 0.07 |
| 6019 | Residential New Construction Tier 1 (15% more efficient) | SFD | ALL | NC | 6,407.0 | 28.3% | 1,815.0 | 0.053 | 0.65 | 20 | \$2,561.00 | New home built 15% more efficient than code - in homes with heat pumps | 29.0% | 0.0% | 0.36 |
| 6020 | Residential New Construction Tier 2 (30% more efficient) | SFD | ALL | NC | 6,407.0 | 32.6% | 2,090.0 | 0.129 | 0.65 | 20 | \$3,742.54 | New home built 30% more efficient than code - in homes with heat pumps | 29.0% | 0.0% | 0.29 |
| 6021 | Ceiling Insulation: R-20 to R-60 | SFD | NLI | Retrofit | 16,638.0 | 5.8% | 961.0 | 0.105 | 0.65 | 25 | \$2,911.28 | Addition of R-20 ceiling insulation in adequately insulated homes with non-heat pump electric heating | 24.1% | 85.5% | 0.18 |
| 6022 | Ceiling Insulation: R-8 to R-38 | SFD | NLI | Retrofit | 18,485.0 | 13.7% | 2,530.0 | 0.282 | 0.65 | 25 | \$2,009.18 | Addition of R-8 ceiling insulation in poorly insulated homes with non-heat pump electric heating | 24.1% | 92.0% | 0.68 |
| 6023 | Exterior Wall Insulation: R-0 to R-13 | SFD | NLI | Retrofit | 29,499.0 | 44.4% | 13,106.0 | 1.076 | 0.65 | 25 | \$3,170.16 | Addition of exterior wall insulation in poorly homes with non-heat pump electric heating | 24.1% | 83.0% | 2.17 |
| 6024 | Exterior Wall Insulation: R-0 to R-19 | SFD | NLI | Retrofit | 29,499.0 | 50.4% | 14,859.0 | 1.304 | 0.65 | 25 | \$4,026.96 | Addition of exterior wall insulation in poorly homes with non-heat pump electric heating | 24.1% | 83.0% | 1.95 |
| 6025 | Floor Insulation: R-0 to R-19 | SFD | NLI | Retrofit | 19,700.0 | 5.3% | 1,036.0 | -0.268 | 0.65 | 25 | \$2,164.50 | Addition of floor insulation in homes with unconditioned basements or crawl spaces and non-heat pump electric heating | 1.9% | 61.0% | 0.18 |
| 6026 | Basement Wall Insulation: R-0 to R-13 | SFD | NLI | Retrofit | 15,624.0 | 9.6% | 1,494.0 | -0.045 | 0.65 | 25 | \$2,816.00 | Addition of basement wall insulation in homes with poorly insulated conditioned basements and non-heat pump electric heating | 2.9% | 61.0% | 0.25 |
| 6027 | Air Sealing: 13 ACH50 to 9 ACH50 | SFD | NLI | Retrofit | 19,724.0 | 15.6% | 3,086.0 | 0.051 | 0.65 | 15 | \$1,034.00 | Air sealing in poorly sealed homes with non-heat pump electric heating | 24.1% | 81.0% | 1.49 |
| 6028 | Air Sealing: 9 ACH50 to 7 ACH50 | SFD | NLI | Retrofit | 16,638.0 | 9.1% | 1,511.0 | 0.030 | 0.65 | 15 | \$1,034.00 | Air sealing in adequately sealed homes with non-heat pump electric heating | 24.1% | 62.0% | 0.73 |
| 6029 | Duct Sealing: 38.5% to 25% (CFM @25Pa) | SFD | NLI | Retrofit | 17,151.0 | 3.0% | 513.0 | 0.032 | 0.65 | 20 | \$744.00 | Duct sealing in homes with poorly sealed ducts and electric furnaces | 6.4% | 64.0% | 0.36 |
| 6030 | Duct Sealing: 25% to 16.25% (CFM @25Pa) | SFD | NLI | Retrofit | 16,638.0 | 2.1% | 342.0 | 0.023 | 0.65 | 20 | \$744.00 | Duct sealing in homes with adequately sealed ducts and electric furnaces | 6.4% | 77.0% | 0.24 |
| 6031 | Duct Insulation (R-0 to R-8) | SFD | NLI | Retrofit | 17,098.0 | 3.2% | 548.0 | 0.013 | 0.65 | 20 | \$921.20 | Installation of duct insulation in homes with poorly insulated ducts and electric furnaces | 6.4% | 42.0% | 0.30 |
| 6032 | Window Film (U=0.51, SHGC=0.24) | SFD | NLI | Retrofit | 19,326.0 | 7.8% | 1,516.0 | 0.914 | 0.65 | 10 | \$2,328.00 | Installation of window film on single-pane windows in homes with non-heat pump electric heating | 24.1% | 98.0% | 0.36 |
| 6033 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFD | NLI | Retrofit | 16,638.0 | 3.6% | 594.0 | 0.329 | 0.65 | 20 | \$4,416.54 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-heat pump electric heating | 24.1% | 98.0% | 0.10 |
| 6034 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFD | ALL | ROB | 16,638.0 | 3.6% | 594.0 | 0.329 | 0.65 | 20 | \$178.71 | Installation of ENERGY STAR windows instead of double-pane windows in homes with non-heat pump electric heating | 24.1% | 38.0% | 2.41 |
| 6035 | Radiant Barrier | SFD | ALL | Retrofit | 16,638.0 | 0.7% | 120.0 | 0.066 | 0.65 | 25 | \$1,162.61 | Installation of radiant barriers in homes with non-heat pump electric heating | 24.1% | 10.0% | 0.07 |
| 6036 | Low Income Weatherization Package | SFD | LI | Retrofit | 20,958.0 | 27.1% | 5,674.0 | 0.236 | 0.65 | 20 | \$7,284.35 | Installation of package of weatherization measures in homes with non-heat pump electric heating | 24.1% | 85.5% | 0.40 |
| 6037 | Window Film (U=0.51, SHGC=0.24) | SFD | LI | Retrofit | 19,326.0 | 7.8% | 1,516.0 | 0.914 | 0.65 | 10 | \$2,328.00 | Installation of window film on single-pane windows in homes with non-heat pump electric heating | 24.1% | 98.0% | 0.36 |
| 6038 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFD | LI | Retrofit | 16,638.0 | 3.6% | 594.0 | 0.329 | 0.65 | 20 | \$4,416.54 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-heat pump electric heating | 24.1% | 98.0% | 0.10 |
| 6039 | Ceiling Insulation: R-20 to R-60 | SFD | NLI | Retrofit | 1,841.0 | 4.3% | 79.0 | 0.102 | 0.65 | 25 | \$2,911.28 | Addition of R-20 ceiling insulation in adequately insulated homes with non-electric heating | 71.0% | 85.5% | 0.03 |
| 6040 | Ceiling Insulation: R-8 to R-38 | SFD | NLI | Retrofit | 1,990.0 | 10.3% | 205.0 | 0.293 | 0.65 | 25 | \$2,009.18 | Addition of R-8 ceiling insulation in poorly insulated homes with non-electric heating | 71.0% | 92.0% | 0.11 |
| 6041 | Exterior Wall Insulation: R-0 to R-13 | SFD | NLI | Retrofit | 2,726.0 | 33.0% | 900.0 | 1.067 | 0.65 | 25 | \$3,170.16 | Addition of exterior wall insulation in poorly homes with non-electric heating | 71.0% | 83.0% | 0.29 |
| 6042 | Exterior Wall Insulation: R-0 to R-19 | SFD | NLI | Retrofit | 2,726.0 | 37.6% | 1,024.0 | 1.293 | 0.65 | 25 | \$4,026.96 | Addition of exterior wall insulation in poorly homes with non-electric heating | 71.0% | 83.0% | 0.27 |
| 6043 | Floor Insulation: R-0 to R-19 | SFD | NLI | Retrofit | 1,735.0 | -11.6% | -202.0 | -0.254 | 0.65 | 25 | \$2,164.50 | Addition of floor insulation in homes with unconditioned basements or crawl spaces and non-electric heating | 5.7% | 61.0% | -0.10 |
| 6044 | Basement Wall Insulation: R-0 to R-13 | SFD | NLI | Retrofit | 1,712.0 | -0.5% | -9.0 | -0.048 | 0.65 | 25 | \$2,816.00 | Addition of basement wall insulation in homes with poorly insulated conditioned basements and non-electric heating | 8.4% | 61.0% | -0.01 |
| 6045 | Air Sealing: 13 ACH50 to 9 ACH50 | SFD | NLI | Retrofit | 1,949.0 | 5.5% | 108.0 | 0.050 | 0.65 | 15 | \$1,034.00 | Air sealing in poorly sealed homes with non-electric heating | 71.0% | 81.0% | 0.07 |

Measure Assumptions - West Penn Power

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|--|-----------------|---------------|-------------------|
| 6046 | Air Sealing: 9 ACH50 to 7 ACH50 | SFD | NLI | Retrofit | 1,841.0 | 2.7% | 50.0 | 0.028 | 0.65 | 15 | \$1,034.00 | Air sealing in adequately sealed homes with non-electric heating | 71.0% | 62.0% | 0.04 |
| 6047 | Duct Sealing: 38.5% to 25% (CFM @25Pa) | SFD | NLI | Retrofit | 1,890.0 | 2.6% | 49.0 | 0.035 | 0.65 | 20 | \$744.00 | Duct sealing in homes with poorly sealed ducts and non-electric furnaces | 66.6% | 64.0% | 0.05 |
| 6048 | Duct Sealing: 25% to 16.25% (CFM @25Pa) | SFD | NLI | Retrofit | 1,841.0 | 1.8% | 33.0 | 0.027 | 0.65 | 20 | \$744.00 | Duct sealing in homes with adequately sealed ducts and non-electric furnaces | 66.6% | 77.0% | 0.04 |
| 6049 | Duct Insulation (R-0 to R-8) | SFD | NLI | Retrofit | 1,873.0 | 2.0% | 38.0 | 0.016 | 0.65 | 20 | \$921.20 | Installation of duct insulation in homes with poorly insulated ducts and non-electric furnaces | 66.6% | 42.0% | 0.03 |
| 6050 | Window Film (U=0.51, SHGC=0.24) | SFD | NLI | Retrofit | 2,110.0 | 26.1% | 551.0 | 0.918 | 0.65 | 10 | \$2,328.00 | Installation of window film on single-pane windows in homes with non-electric heating | 71.0% | 98.0% | 0.21 |
| 6051 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFD | NLI | Retrofit | 1,841.0 | 10.5% | 194.0 | 0.329 | 0.65 | 20 | \$4,416.54 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-electric heating | 71.0% | 98.0% | 0.05 |
| 6052 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFD | ALL | ROB | 1,841.0 | 10.5% | 194.0 | 0.329 | 0.65 | 20 | \$178.71 | Installation of ENERGY STAR windows instead of double-pane windows in homes with non-electric heating | 71.0% | 38.0% | 1.34 |
| 6053 | Radiant Barrier | SFD | ALL | Retrofit | 1,841.0 | 2.2% | 41.0 | 0.065 | 0.65 | 25 | \$1,162.61 | Installation of radiant barriers in homes with non-electric heating | 71.0% | 10.0% | 0.04 |
| 6054 | Low Income Weatherization Package | SFD | LI | Retrofit | 2,028.0 | 7.1% | 145.0 | 0.234 | 0.65 | 20 | \$2,363.62 | Installation of package of weatherization measures in homes with non-electric heating | 71.0% | 85.5% | 0.07 |
| 6055 | Window Film (U=0.51, SHGC=0.24) | SFD | LI | Retrofit | 2,110.0 | 26.1% | 551.0 | 0.918 | 0.65 | 10 | \$2,328.00 | Installation of window film on single-pane windows in homes with non-electric heating | 71.0% | 98.0% | 0.21 |
| 6056 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFD | LI | Retrofit | 1,841.0 | 10.5% | 194.0 | 0.329 | 0.65 | 20 | \$4,416.54 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-electric heating | 71.0% | 98.0% | 0.05 |
| 6057 | Residential New Construction Tier 1 (15% more efficient) | SFD | ALL | NC | 1,389.0 | 9.7% | 135.0 | 0.062 | 0.65 | 20 | \$2,561.00 | New home built 15% more efficient than code - in homes with non-electric heating | 71.0% | 0.0% | 0.04 |
| 6058 | Residential New Construction Tier 2 (30% more efficient) | SFD | ALL | NC | 1,389.0 | 30.8% | 428.0 | 0.330 | 0.65 | 20 | \$4,971.41 | New home built 30% more efficient than code - in homes with non-electric heating | 71.0% | 0.0% | 0.07 |
| 6059 | Ceiling Insulation: R-20 to R-60 | SFA | NLI | Retrofit | 5,610.0 | 7.1% | 396.0 | 0.096 | 0.65 | 25 | \$2,567.00 | Addition of R-20 ceiling insulation in adequately insulated homes with heat pumps | 4.9% | 85.5% | 0.09 |
| 6060 | Ceiling Insulation: R-8 to R-38 | SFA | NLI | Retrofit | 6,377.0 | 16.5% | 1,051.0 | 0.246 | 0.65 | 25 | \$1,771.58 | Addition of R-8 ceiling insulation in poorly insulated homes with heat pumps | 4.9% | 92.0% | 0.35 |
| 6061 | Exterior Wall Insulation: R-0 to R-13 | SFA | NLI | Retrofit | 8,871.0 | 37.4% | 3,316.0 | 0.468 | 0.65 | 25 | \$2,968.88 | Addition of exterior wall insulation in poorly homes with heat pumps | 4.9% | 83.0% | 0.62 |
| 6062 | Exterior Wall Insulation: R-0 to R-19 | SFA | NLI | Retrofit | 8,871.0 | 42.0% | 3,725.0 | 0.561 | 0.65 | 25 | \$3,771.28 | Addition of exterior wall insulation in poorly homes with heat pumps | 4.9% | 83.0% | 0.55 |
| 6063 | Floor Insulation: R-0 to R-19 | SFA | NLI | Retrofit | 5,844.0 | 4.7% | 275.0 | -0.167 | 0.65 | 25 | \$1,572.50 | Addition of floor insulation in homes with unconditioned basements or crawl spaces and heat pumps | 0.4% | 61.0% | 0.04 |
| 6064 | Basement Wall Insulation: R-0 to R-13 | SFA | NLI | Retrofit | 4,592.0 | 9.6% | 439.0 | -0.010 | 0.65 | 25 | \$2,406.40 | Addition of basement wall insulation in homes with poorly insulated conditioned basements and heat pumps | 0.6% | 61.0% | 0.09 |
| 6065 | Air Sealing: 13 ACH50 to 9 ACH50 | SFA | NLI | Retrofit | 6,844.0 | 18.0% | 1,234.0 | 0.042 | 0.65 | 15 | \$748.00 | Air sealing in poorly sealed homes with heat pumps | 4.9% | 81.0% | 0.83 |
| 6066 | Air Sealing: 9 ACH50 to 7 ACH50 | SFA | NLI | Retrofit | 5,610.0 | 10.1% | 569.0 | 0.023 | 0.65 | 15 | \$748.00 | Air sealing in adequately sealed homes with heat pumps | 4.9% | 62.0% | 0.39 |
| 6067 | Duct Sealing: 38.5% to 25% (CFM @25Pa) | SFA | NLI | Retrofit | 5,788.0 | 3.1% | 178.0 | 0.016 | 0.65 | 20 | \$744.00 | Duct sealing in homes with poorly sealed ducts and heat pumps | 4.9% | 64.0% | 0.13 |
| 6068 | Duct Sealing: 25% to 16.25% (CFM @25Pa) | SFA | NLI | Retrofit | 5,610.0 | 2.1% | 117.0 | 0.012 | 0.65 | 20 | \$744.00 | Duct sealing in homes with adequately sealed ducts and heat pumps | 4.9% | 77.0% | 0.08 |
| 6069 | Duct Insulation (R-0 to R-8) | SFA | NLI | Retrofit | 5,754.0 | 3.0% | 173.0 | 0.000 | 0.65 | 20 | \$666.40 | Installation of duct insulation in homes with poorly insulated ducts and heat pumps | 4.9% | 42.0% | 0.13 |
| 6070 | Window Film (U=0.51, SHGC=0.24) | SFA | NLI | Retrofit | 6,471.0 | 10.3% | 664.0 | 0.506 | 0.65 | 10 | \$1,560.00 | Installation of window film on single-pane windows in homes with heat pumps | 4.9% | 98.0% | 0.25 |
| 6071 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFA | NLI | Retrofit | 5,610.0 | 4.6% | 258.0 | 0.189 | 0.65 | 20 | \$2,959.54 | Installation of ENERGY STAR windows to replace single-pane windows in homes with heat pumps | 4.9% | 98.0% | 0.07 |
| 6072 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFA | ALL | ROB | 5,610.0 | 4.6% | 258.0 | 0.189 | 0.65 | 20 | \$119.76 | Installation of ENERGY STAR windows instead of double-pane windows in homes with heat pumps | 4.9% | 38.0% | 1.72 |
| 6073 | Low Income Weatherization Package | SFA | LI | Retrofit | 7,181.0 | 28.9% | 2,074.0 | 0.129 | 0.65 | 20 | \$4,938.29 | Installation of package of weatherization measures in homes with heat pumps | 4.9% | 85.5% | 0.22 |
| 6074 | Window Film (U=0.51, SHGC=0.24) | SFA | LI | Retrofit | 6,471.0 | 10.3% | 664.0 | 0.506 | 0.65 | 10 | \$1,560.00 | Installation of window film on single-pane windows in homes with heat pumps | 4.9% | 98.0% | 0.25 |
| 6075 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFA | LI | Retrofit | 5,610.0 | 4.6% | 258.0 | 0.189 | 0.65 | 20 | \$2,959.54 | Installation of ENERGY STAR windows to replace single-pane windows in homes with heat pumps | 4.9% | 98.0% | 0.07 |
| 6076 | Residential New Construction Tier 1 (15% more efficient) | SFA | ALL | NC | 5,266.0 | 34.8% | 1,831.0 | 0.077 | 0.65 | 20 | \$2,561.00 | New home built 15% more efficient than code - in homes with heat pumps | 29.0% | 0.0% | 0.36 |
| 6077 | Residential New Construction Tier 2 (30% more efficient) | SFA | ALL | NC | 5,266.0 | 35.4% | 1,866.0 | 0.141 | 0.65 | 20 | \$3,345.67 | New home built 30% more efficient than code - in homes with heat pumps | 29.0% | 0.0% | 0.29 |
| 6078 | Ceiling Insulation: R-20 to R-60 | SFA | NLI | Retrofit | 12,039.0 | 7.7% | 923.0 | 0.111 | 0.65 | 25 | \$2,567.00 | Addition of R-20 ceiling insulation in adequately insulated homes with non-heat pump electric heating | 24.1% | 85.5% | 0.19 |
| 6079 | Ceiling Insulation: R-8 to R-38 | SFA | NLI | Retrofit | 13,790.0 | 17.4% | 2,404.0 | 0.300 | 0.65 | 25 | \$1,771.58 | Addition of R-8 ceiling insulation in poorly insulated homes with non-heat pump electric heating | 24.1% | 92.0% | 0.74 |
| 6080 | Exterior Wall Insulation: R-0 to R-13 | SFA | NLI | Retrofit | 19,180.0 | 37.9% | 7,275.0 | 0.560 | 0.65 | 25 | \$2,968.88 | Addition of exterior wall insulation in poorly homes with non-heat pump electric heating | 24.1% | 83.0% | 1.28 |
| 6081 | Exterior Wall Insulation: R-0 to R-19 | SFA | NLI | Retrofit | 19,180.0 | 42.8% | 8,209.0 | 0.672 | 0.65 | 25 | \$3,771.28 | Addition of exterior wall insulation in poorly homes with non-heat pump electric heating | 24.1% | 83.0% | 1.14 |

Measure Assumptions - West Penn Power

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|--|-----------------|---------------|-------------------|
| 6082 | Floor Insulation: R-0 to R-19 | SFA | NLI | Retrofit | 12,942.0 | 8.2% | 1,060.0 | -0.207 | 0.65 | 25 | \$1,572.50 | Addition of floor insulation in homes with unconditioned basements or crawl spaces and non-heat pump electric heating | 1.9% | 61.0% | 0.28 |
| 6083 | Basement Wall Insulation: R-0 to R-13 | SFA | NLI | Retrofit | 9,807.0 | 11.8% | 1,155.0 | -0.014 | 0.65 | 25 | \$2,406.40 | Addition of basement wall insulation in homes with poorly insulated conditioned basements and non-heat pump electric heating | 2.9% | 61.0% | 0.23 |
| 6084 | Air Sealing: 13 ACH50 to 9 ACH50 | SFA | NLI | Retrofit | 14,806.0 | 18.7% | 2,767.0 | 0.051 | 0.65 | 15 | \$748.00 | Air sealing in poorly sealed homes with non-heat pump electric heating | 24.1% | 81.0% | 1.85 |
| 6085 | Air Sealing: 9 ACH50 to 7 ACH50 | SFA | NLI | Retrofit | 12,039.0 | 11.3% | 1,357.0 | 0.025 | 0.65 | 15 | \$748.00 | Air sealing in adequately sealed homes with non-heat pump electric heating | 24.1% | 62.0% | 0.91 |
| 6086 | Duct Sealing: 38.5% to 25% (CFM @25Pa) | SFA | NLI | Retrofit | 12,439.0 | 3.2% | 400.0 | 0.024 | 0.65 | 20 | \$744.00 | Duct sealing in homes with poorly sealed ducts and electric furnaces | 6.4% | 64.0% | 0.28 |
| 6087 | Duct Sealing: 25% to 16.25% (CFM @25Pa) | SFA | NLI | Retrofit | 12,039.0 | 2.2% | 263.0 | 0.012 | 0.65 | 20 | \$744.00 | Duct sealing in homes with adequately sealed ducts and electric furnaces | 6.4% | 77.0% | 0.18 |
| 6088 | Duct Insulation (R-0 to R-8) | SFA | NLI | Retrofit | 12,321.0 | 2.7% | 335.0 | 0.001 | 0.65 | 20 | \$666.40 | Installation of duct insulation in homes with poorly insulated ducts and electric furnaces | 6.4% | 42.0% | 0.25 |
| 6089 | Window Film (U=0.51, SHGC=0.24) | SFA | NLI | Retrofit | 13,936.0 | 7.8% | 1,081.0 | 0.619 | 0.65 | 10 | \$1,560.00 | Installation of window film on single-pane windows in homes with non-heat pump electric heating | 24.1% | 98.0% | 0.37 |
| 6090 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFA | NLI | Retrofit | 12,039.0 | 3.6% | 436.0 | 0.230 | 0.65 | 20 | \$2,959.54 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-heat pump electric heating | 24.1% | 98.0% | 0.10 |
| 6091 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFA | ALL | ROB | 12,039.0 | 3.6% | 436.0 | 0.230 | 0.65 | 20 | \$119.76 | Installation of ENERGY STAR windows instead of double-pane windows in homes with non-heat pump electric heating | 24.1% | 38.0% | 2.59 |
| 6092 | Low Income Weatherization Package | SFA | LI | Retrofit | 15,586.0 | 30.5% | 4,756.0 | 0.157 | 0.65 | 20 | \$4,938.29 | Installation of package of weatherization measures in homes with non-heat pump electric heating | 24.1% | 85.5% | 0.49 |
| 6093 | Window Film (U=0.51, SHGC=0.24) | SFA | LI | Retrofit | 13,936.0 | 7.8% | 1,081.0 | 0.619 | 0.65 | 10 | \$1,560.00 | Installation of window film on single-pane windows in homes with non-heat pump electric heating | 24.1% | 98.0% | 0.37 |
| 6094 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFA | LI | Retrofit | 12,039.0 | 3.6% | 436.0 | 0.230 | 0.65 | 20 | \$2,959.54 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-heat pump electric heating | 24.1% | 98.0% | 0.10 |
| 6095 | Ceiling Insulation: R-20 to R-60 | SFA | NLI | Retrofit | 1,644.0 | 4.4% | 73.0 | 0.118 | 0.65 | 25 | \$2,567.00 | Addition of R-20 ceiling insulation in adequately insulated homes with non-electric heating | 71.0% | 85.5% | 0.03 |
| 6096 | Ceiling Insulation: R-8 to R-38 | SFA | NLI | Retrofit | 1,785.0 | 10.8% | 193.0 | 0.296 | 0.65 | 25 | \$1,771.58 | Addition of R-8 ceiling insulation in poorly insulated homes with non-electric heating | 71.0% | 92.0% | 0.13 |
| 6097 | Exterior Wall Insulation: R-0 to R-13 | SFA | NLI | Retrofit | 2,169.0 | 24.6% | 534.0 | 0.563 | 0.65 | 25 | \$2,968.88 | Addition of exterior wall insulation in poorly homes with non-electric heating | 71.0% | 83.0% | 0.17 |
| 6098 | Exterior Wall Insulation: R-0 to R-19 | SFA | NLI | Retrofit | 2,169.0 | 27.7% | 601.0 | 0.668 | 0.65 | 25 | \$3,771.28 | Addition of exterior wall insulation in poorly homes with non-electric heating | 71.0% | 83.0% | 0.16 |
| 6099 | Floor Insulation: R-0 to R-19 | SFA | NLI | Retrofit | 1,497.0 | -11.8% | -176.0 | -0.190 | 0.65 | 25 | \$1,572.50 | Addition of floor insulation in homes with unconditioned basements or crawl spaces and non-electric heating | 5.7% | 61.0% | -0.11 |
| 6100 | Basement Wall Insulation: R-0 to R-13 | SFA | NLI | Retrofit | 1,468.0 | -0.6% | -9.0 | -0.022 | 0.65 | 25 | \$2,406.40 | Addition of basement wall insulation in homes with poorly insulated conditioned basements and non-electric heating | 8.4% | 61.0% | -0.01 |
| 6101 | Air Sealing: 13 ACH50 to 9 ACH50 | SFA | NLI | Retrofit | 1,741.0 | 5.6% | 97.0 | 0.048 | 0.65 | 15 | \$748.00 | Air sealing in poorly sealed homes with non-electric heating | 71.0% | 81.0% | 0.09 |
| 6102 | Air Sealing: 9 ACH50 to 7 ACH50 | SFA | NLI | Retrofit | 1,644.0 | 2.9% | 47.0 | 0.031 | 0.65 | 15 | \$748.00 | Air sealing in adequately sealed homes with non-electric heating | 71.0% | 62.0% | 0.05 |
| 6103 | Duct Sealing: 38.5% to 25% (CFM @25Pa) | SFA | NLI | Retrofit | 1,680.0 | 2.1% | 36.0 | 0.024 | 0.65 | 20 | \$744.00 | Duct sealing in homes with poorly sealed ducts and non-electric furnaces | 66.6% | 64.0% | 0.04 |
| 6104 | Duct Sealing: 25% to 16.25% (CFM @25Pa) | SFA | NLI | Retrofit | 1,644.0 | 1.5% | 24.0 | 0.019 | 0.65 | 20 | \$744.00 | Duct sealing in homes with adequately sealed ducts and non-electric furnaces | 66.6% | 77.0% | 0.03 |
| 6105 | Duct Insulation (R-0 to R-8) | SFA | NLI | Retrofit | 1,659.0 | 1.1% | 18.0 | 0.011 | 0.65 | 20 | \$666.40 | Installation of duct insulation in homes with poorly insulated ducts and non-electric furnaces | 66.6% | 42.0% | 0.02 |
| 6106 | Window Film (U=0.51, SHGC=0.24) | SFA | NLI | Retrofit | 1,849.0 | 25.8% | 477.0 | 0.623 | 0.65 | 10 | \$1,560.00 | Installation of window film on single-pane windows in homes with non-electric heating | 71.0% | 98.0% | 0.24 |
| 6107 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFA | NLI | Retrofit | 1,644.0 | 10.9% | 179.0 | 0.239 | 0.65 | 20 | \$2,959.54 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-electric heating | 71.0% | 98.0% | 0.07 |
| 6108 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFA | ALL | ROB | 1,644.0 | 10.9% | 179.0 | 0.239 | 0.65 | 20 | \$119.76 | Installation of ENERGY STAR windows instead of double-pane windows in homes with non-electric heating | 71.0% | 38.0% | 1.62 |
| 6109 | Low Income Weatherization Package | SFA | LI | Retrofit | 1,771.0 | 6.8% | 121.0 | 0.067 | 0.65 | 20 | \$1,915.64 | Installation of package of weatherization measures in homes with non-electric heating | 71.0% | 85.5% | 0.05 |
| 6110 | Window Film (U=0.51, SHGC=0.24) | SFA | LI | Retrofit | 1,849.0 | 25.8% | 477.0 | 0.623 | 0.65 | 10 | \$1,560.00 | Installation of window film on single-pane windows in homes with non-electric heating | 71.0% | 98.0% | 0.24 |
| 6111 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFA | LI | Retrofit | 1,644.0 | 10.9% | 179.0 | 0.239 | 0.65 | 20 | \$2,959.54 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-electric heating | 71.0% | 98.0% | 0.07 |
| 6112 | Residential New Construction Tier 1 (15% more efficient) | SFA | ALL | NC | 1,264.0 | 10.7% | 135.0 | 0.090 | 0.65 | 20 | \$2,561.00 | New home built 15% more efficient than code - in homes with non-electric heating | 71.0% | 0.0% | 0.04 |
| 6113 | Residential New Construction Tier 2 (30% more efficient) | SFA | ALL | NC | 1,264.0 | 23.3% | 294.0 | 0.280 | 0.65 | 20 | \$4,302.19 | New home built 30% more efficient than code - in homes with non-electric heating | 71.0% | 0.0% | 0.06 |
| 6114 | Exterior Wall Insulation: R-0 to R-13 | MF | NLI | Retrofit | 3,649.0 | 35.8% | 1,307.0 | 0.237 | 0.65 | 25 | \$1,509.60 | Addition of exterior wall insulation in poorly homes with heat pumps | 4.9% | 83.0% | 0.49 |
| 6115 | Exterior Wall Insulation: R-0 to R-19 | MF | NLI | Retrofit | 3,649.0 | 40.2% | 1,466.0 | 0.281 | 0.65 | 25 | \$1,917.60 | Addition of exterior wall insulation in poorly homes with heat pumps | 4.9% | 83.0% | 0.44 |

Measure Assumptions - West Penn Power

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|---|-----------------|---------------|-------------------|
| 6116 | Air Sealing: 13 ACH50 to 9 ACH50 | MF | NLI | Retrofit | 2,763.0 | 14.4% | 398.0 | 0.035 | 0.65 | 15 | \$385.00 | Air sealing in poorly sealed homes with heat pumps | 4.9% | 81.0% | 0.55 |
| 6117 | Air Sealing: 9 ACH50 to 7 ACH50 | MF | NLI | Retrofit | 2,365.0 | 7.7% | 182.0 | 0.010 | 0.65 | 15 | \$385.00 | Air sealing in adequately sealed homes with heat pumps | 4.9% | 62.0% | 0.24 |
| 6118 | Duct Sealing: 38.5% to 25% (CFM @25Pa) | MF | NLI | Retrofit | 2,591.0 | 8.7% | 226.0 | 0.110 | 0.65 | 20 | \$744.00 | Duct sealing in homes with poorly sealed ducts and heat pumps | 4.9% | 64.0% | 0.21 |
| 6119 | Duct Sealing: 25% to 16.25% (CFM @25Pa) | MF | NLI | Retrofit | 2,365.0 | 5.3% | 126.0 | 0.057 | 0.65 | 20 | \$744.00 | Duct sealing in homes with adequately sealed ducts and heat pumps | 4.9% | 77.0% | 0.12 |
| 6120 | Duct Insulation (R-0 to R-8) | MF | NLI | Retrofit | 2,623.0 | 11.5% | 301.0 | 0.165 | 0.65 | 20 | \$453.60 | Installation of duct insulation in homes with poorly insulated ducts and heat pumps | 4.9% | 42.0% | 0.48 |
| 6121 | Window Film (U=0.51, SHGC=0.24) | MF | NLI | Retrofit | 2,904.0 | 18.4% | 533.0 | 0.281 | 0.65 | 10 | \$1,044.00 | Installation of window film on single-pane windows in homes with heat pumps | 4.9% | 98.0% | 0.27 |
| 6122 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | MF | NLI | Retrofit | 2,365.0 | 8.9% | 211.0 | 0.110 | 0.65 | 20 | \$1,980.61 | Installation of ENERGY STAR windows to replace single-pane windows in homes with heat pumps | 4.9% | 98.0% | 0.08 |
| 6123 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | MF | ALL | ROB | 2,365.0 | 8.9% | 211.0 | 0.110 | 0.65 | 20 | \$80.14 | Installation of ENERGY STAR windows instead of double-pane windows in homes with heat pumps | 4.9% | 38.0% | 1.87 |
| 6124 | Low Income Weatherization Package | MF | LI | Retrofit | 2,884.0 | 23.1% | 666.0 | 0.125 | 0.65 | 20 | \$1,828.02 | Installation of package of weatherization measures in homes with heat pumps | 4.9% | 85.5% | 0.21 |
| 6125 | Window Film (U=0.51, SHGC=0.24) | MF | LI | Retrofit | 2,904.0 | 18.4% | 533.0 | 0.281 | 0.65 | 10 | \$1,044.00 | Installation of window film on single-pane windows in homes with heat pumps | 4.9% | 98.0% | 0.27 |
| 6126 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | MF | LI | Retrofit | 2,365.0 | 8.9% | 211.0 | 0.110 | 0.65 | 20 | \$1,980.61 | Installation of ENERGY STAR windows to replace single-pane windows in homes with heat pumps | 4.9% | 98.0% | 0.08 |
| 6127 | Residential New Construction Tier 1 (15% more efficient) | MF | ALL | NC | 1,858.0 | 24.9% | 463.0 | 0.094 | 0.65 | 20 | \$2,561.00 | New home built 15% more efficient than code - in homes with heat pumps | 29.0% | 0.0% | 0.10 |
| 6128 | Residential New Construction Tier 2 (30% more efficient) | MF | ALL | NC | 1,858.0 | 27.9% | 518.0 | 0.105 | 0.65 | 20 | \$3,345.67 | New home built 30% more efficient than code - in homes with heat pumps | 29.0% | 0.0% | 0.09 |
| 6129 | Exterior Wall Insulation: R-0 to R-13 | MF | NLI | Retrofit | 6,618.0 | 43.0% | 2,845.0 | 0.274 | 0.65 | 25 | \$1,509.60 | Addition of exterior wall insulation in poorly homes with non-heat pump electric heating | 24.1% | 83.0% | 1.00 |
| 6130 | Exterior Wall Insulation: R-0 to R-19 | MF | NLI | Retrofit | 6,618.0 | 48.3% | 3,195.0 | 0.324 | 0.65 | 25 | \$1,917.60 | Addition of exterior wall insulation in poorly homes with non-heat pump electric heating | 24.1% | 83.0% | 0.89 |
| 6131 | Air Sealing: 13 ACH50 to 9 ACH50 | MF | NLI | Retrofit | 4,722.0 | 19.1% | 901.0 | 0.036 | 0.65 | 15 | \$385.00 | Air sealing in poorly sealed homes with non-heat pump electric heating | 24.1% | 81.0% | 1.19 |
| 6132 | Air Sealing: 9 ACH50 to 7 ACH50 | MF | NLI | Retrofit | 3,821.0 | 11.2% | 427.0 | 0.019 | 0.65 | 15 | \$385.00 | Air sealing in adequately sealed homes with non-heat pump electric heating | 24.1% | 62.0% | 0.57 |
| 6133 | Duct Sealing: 38.5% to 25% (CFM @25Pa) | MF | NLI | Retrofit | 4,083.0 | 6.4% | 262.0 | 0.125 | 0.65 | 20 | \$744.00 | Duct sealing in homes with poorly sealed ducts and electric furnaces | 6.4% | 64.0% | 0.24 |
| 6134 | Duct Sealing: 25% to 16.25% (CFM @25Pa) | MF | NLI | Retrofit | 3,821.0 | 4.3% | 166.0 | 0.071 | 0.65 | 20 | \$744.00 | Duct sealing in homes with adequately sealed ducts and electric furnaces | 6.4% | 77.0% | 0.15 |
| 6135 | Duct Insulation (R-0 to R-8) | MF | NLI | Retrofit | 4,095.0 | 7.9% | 323.0 | 0.206 | 0.65 | 20 | \$453.60 | Installation of duct insulation in homes with poorly insulated ducts and electric furnaces | 6.4% | 42.0% | 0.54 |
| 6136 | Window Film (U=0.51, SHGC=0.24) | MF | NLI | Retrofit | 4,941.0 | 17.9% | 883.0 | 0.338 | 0.65 | 10 | \$1,044.00 | Installation of window film on single-pane windows in homes with non-heat pump electric heating | 24.1% | 98.0% | 0.40 |
| 6137 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | MF | NLI | Retrofit | 3,821.0 | 9.4% | 360.0 | 0.134 | 0.65 | 20 | \$1,980.61 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-heat pump electric heating | 24.1% | 98.0% | 0.12 |
| 6138 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | MF | ALL | ROB | 3,821.0 | 9.4% | 360.0 | 0.134 | 0.65 | 20 | \$80.14 | Installation of ENERGY STAR windows instead of double-pane windows in homes with non-heat pump electric heating | 24.1% | 38.0% | 2.91 |
| 6139 | Low Income Weatherization Package | MF | LI | Retrofit | 4,983.0 | 27.6% | 1,375.0 | 0.149 | 0.65 | 20 | \$1,828.02 | Installation of package of weatherization measures in homes with non-heat pump electric heating | 24.1% | 85.5% | 0.40 |
| 6140 | Window Film (U=0.51, SHGC=0.24) | MF | LI | Retrofit | 4,941.0 | 17.9% | 883.0 | 0.338 | 0.65 | 10 | \$1,044.00 | Installation of window film on single-pane windows in homes with non-heat pump electric heating | 24.1% | 98.0% | 0.40 |
| 6141 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | MF | LI | Retrofit | 3,821.0 | 9.4% | 360.0 | 0.134 | 0.65 | 20 | \$1,980.61 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-heat pump electric heating | 24.1% | 98.0% | 0.12 |
| 6142 | Exterior Wall Insulation: R-0 to R-13 | MF | NLI | Retrofit | 1,843.0 | 11.7% | 216.0 | 0.269 | 0.65 | 25 | \$1,509.60 | Addition of exterior wall insulation in poorly homes with non-electric heating | 71.0% | 83.0% | 0.15 |
| 6143 | Exterior Wall Insulation: R-0 to R-19 | MF | NLI | Retrofit | 1,843.0 | 13.2% | 243.0 | 0.320 | 0.65 | 25 | \$1,917.60 | Addition of exterior wall insulation in poorly homes with non-electric heating | 71.0% | 83.0% | 0.14 |
| 6144 | Air Sealing: 13 ACH50 to 9 ACH50 | MF | NLI | Retrofit | 1,659.0 | 1.7% | 29.0 | 0.044 | 0.65 | 15 | \$385.00 | Air sealing in poorly sealed homes with non-electric heating | 71.0% | 81.0% | 0.09 |
| 6145 | Air Sealing: 9 ACH50 to 7 ACH50 | MF | NLI | Retrofit | 1,630.0 | 0.7% | 12.0 | 0.020 | 0.65 | 15 | \$385.00 | Air sealing in adequately sealed homes with non-electric heating | 71.0% | 62.0% | 0.04 |
| 6146 | Duct Sealing: 38.5% to 25% (CFM @25Pa) | MF | NLI | Retrofit | 1,732.0 | 5.9% | 102.0 | 0.128 | 0.65 | 20 | \$744.00 | Duct sealing in homes with poorly sealed ducts and non-electric furnaces | 66.6% | 64.0% | 0.14 |
| 6147 | Duct Sealing: 25% to 16.25% (CFM @25Pa) | MF | NLI | Retrofit | 1,630.0 | 4.0% | 65.0 | 0.072 | 0.65 | 20 | \$744.00 | Duct sealing in homes with adequately sealed ducts and non-electric furnaces | 66.6% | 77.0% | 0.09 |
| 6148 | Duct Insulation (R-0 to R-8) | MF | NLI | Retrofit | 1,767.0 | 9.1% | 161.0 | 0.244 | 0.65 | 20 | \$453.60 | Installation of duct insulation in homes with poorly insulated ducts and non-electric furnaces | 66.6% | 42.0% | 0.41 |
| 6149 | Window Film (U=0.51, SHGC=0.24) | MF | NLI | Retrofit | 1,765.0 | 20.6% | 364.0 | 0.331 | 0.65 | 10 | \$1,044.00 | Installation of window film on single-pane windows in homes with non-electric heating | 71.0% | 98.0% | 0.23 |
| 6150 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | MF | NLI | Retrofit | 1,630.0 | 7.9% | 129.0 | 0.125 | 0.65 | 20 | \$1,980.61 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-electric heating | 71.0% | 98.0% | 0.06 |
| 6151 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | MF | ALL | ROB | 1,630.0 | 7.9% | 129.0 | 0.125 | 0.65 | 20 | \$80.14 | Installation of ENERGY STAR windows instead of double-pane windows in homes with non-electric heating | 71.0% | 38.0% | 1.49 |

Measure Assumptions - West Penn Power

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|---|-----------------|---------------|-------------------|
| 6152 | Low Income Weatherization Package | MF | LI | Retrofit | 1,676.0 | 5.7% | 96.0 | 0.116 | 0.65 | 20 | \$1,417.36 | Installation of package of weatherization measures in homes with non-electric heating | 71.0% | 85.5% | 0.07 |
| 6153 | Window Film (U=0.51, SHGC=0.24) | MF | LI | Retrofit | 1,765.0 | 20.6% | 364.0 | 0.331 | 0.65 | 10 | \$1,044.00 | Installation of window film on single-pane windows in homes with non-electric heating | 71.0% | 98.0% | 0.23 |
| 6154 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | MF | LI | Retrofit | 1,630.0 | 7.9% | 129.0 | 0.125 | 0.65 | 20 | \$1,980.61 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-electric heating | 71.0% | 98.0% | 0.06 |
| 6155 | Residential New Construction Tier 1 (15% more efficient) | MF | ALL | NC | 1,161.0 | 7.1% | 82.0 | 0.114 | 0.65 | 20 | \$2,561.00 | New home built 15% more efficient than code - in homes with non-electric heating | 71.0% | 0.0% | 0.04 |
| 6156 | Residential New Construction Tier 2 (30% more efficient) | MF | ALL | NC | 1,161.0 | 21.3% | 247.0 | 0.221 | 0.65 | 20 | \$4,302.19 | New home built 30% more efficient than code - in homes with non-electric heating | 71.0% | 0.0% | 0.05 |
| 7000 | Miscellaneous | | | | | | | | | | | | | | |
| 7001 | Indirect Feedback (Home Energy Reports) - homes with ASHP | SFD | All | Retrofit | 18,215.0 | 1.5% | 273.2 | 0.0312 | 0.65 | 1 | \$0.00 | Home energy reports in homes with heat pumps | 4.9% | 0.0% | 5.00 |
| 7002 | Direct (Real Time) Feedback - homes with ASHP | SFD | All | Retrofit | 18,215.0 | 9.2% | 1,675.8 | 0.1913 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with heat pumps | 4.9% | 5.0% | 2.20 |
| 7003 | Indirect Feedback (Home Energy Reports) - homes with non-ASHP electric heating | SFD | All | Retrofit | 27,257.0 | 1.5% | 408.9 | 0.0467 | 0.65 | 1 | \$0.00 | Home energy reports in homes with non-heat pump electric heating | 24.1% | 0.0% | 5.00 |
| 7004 | Direct (Real Time) Feedback - homes with non-ASHP electric heating | SFD | All | Retrofit | 27,257.0 | 9.2% | 2,507.6 | 0.2863 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with non-heat pump electric heating | 24.1% | 5.0% | 3.30 |
| 7005 | Indirect Feedback (Home Energy Reports) - homes with gas heating | SFD | All | Retrofit | 8,611.0 | 1.5% | 129.2 | 0.0147 | 0.65 | 1 | \$0.00 | Home energy reports in homes with non-electric heating | 71.0% | 0.0% | 5.00 |
| 7006 | Direct (Real Time) Feedback - homes with gas heating | SFD | All | Retrofit | 8,611.0 | 9.2% | 792.2 | 0.0904 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with non-electric heating | 71.0% | 5.0% | 1.10 |
| 7007 | Variable Speed Pool Pumps (with Load Shifting Option) | SFD | All | Retrofit | 706.6 | 84.0% | 593.5 | 0.3908 | 1.00 | 10 | \$750.00 | Installation of a variable speed pool pump to replace a constant speed pool pump | 11.0% | 25.0% | 0.54 |
| 7008 | Indirect Feedback (Home Energy Reports) - homes with ASHP | SFD | All | NC | 16,990.0 | 1.5% | 254.9 | 0.0291 | 0.65 | 1 | \$0.00 | Home energy reports in homes with heat pumps | 29.0% | 0.0% | 5.00 |
| 7009 | Direct (Real Time) Feedback - homes with ASHP | SFD | All | NC | 16,990.0 | 9.2% | 1,563.1 | 0.1784 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with heat pumps | 29.0% | 0.0% | 2.06 |
| 7010 | Indirect Feedback (Home Energy Reports) - homes with gas heating | SFD | All | NC | 8,432.0 | 1.5% | 126.5 | 0.0144 | 0.65 | 1 | \$0.00 | Home energy reports in homes with non-electric heating | 71.0% | 0.0% | 5.00 |
| 7011 | Direct (Real Time) Feedback - homes with gas heating | SFD | All | NC | 8,432.0 | 9.2% | 775.7 | 0.0886 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with non-electric heating | 71.0% | 0.0% | 1.08 |
| 7012 | Variable Speed Pool Pumps (with Load Shifting Option) | SFD | All | NC | 706.6 | 84.0% | 593.5 | 0.3908 | 1.00 | 10 | \$750.00 | Installation of a variable speed pool pump to replace a constant speed pool pump | 11.0% | 0.0% | 0.54 |
| 7013 | Indirect Feedback (Home Energy Reports) - homes with ASHP | SFA | All | Retrofit | 14,578.0 | 1.5% | 218.7 | 0.0250 | 0.65 | 1 | \$0.00 | Home energy reports in homes with heat pumps | 4.9% | 0.0% | 5.00 |
| 7014 | Direct (Real Time) Feedback - homes with ASHP | SFA | All | Retrofit | 14,578.0 | 9.2% | 1,341.2 | 0.1531 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with heat pumps | 4.9% | 5.0% | 1.76 |
| 7015 | Indirect Feedback (Home Energy Reports) - homes with non-ASHP electric heating | SFA | All | Retrofit | 21,011.0 | 1.5% | 315.2 | 0.0360 | 0.65 | 1 | \$0.00 | Home energy reports in homes with non-heat pump electric heating | 24.1% | 0.0% | 5.00 |
| 7016 | Direct (Real Time) Feedback - homes with non-ASHP electric heating | SFA | All | Retrofit | 21,011.0 | 9.2% | 1,933.0 | 0.2207 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with non-heat pump electric heating | 24.1% | 5.0% | 2.54 |
| 7017 | Indirect Feedback (Home Energy Reports) - homes with gas heating | SFA | All | Retrofit | 7,304.0 | 1.5% | 109.6 | 0.0125 | 0.65 | 1 | \$0.00 | Home energy reports in homes with non-electric heating | 71.0% | 0.0% | 5.00 |
| 7018 | Direct (Real Time) Feedback - homes with gas heating | SFA | All | Retrofit | 7,304.0 | 9.2% | 672.0 | 0.0767 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with non-electric heating | 71.0% | 5.0% | 0.93 |
| 7019 | Indirect Feedback (Home Energy Reports) - homes with ASHP | SFA | All | NC | 14,329.0 | 1.5% | 214.9 | 0.0245 | 0.65 | 1 | \$0.00 | Home energy reports in homes with heat pumps | 29.0% | 0.0% | 5.00 |
| 7020 | Direct (Real Time) Feedback - homes with ASHP | SFA | All | NC | 14,329.0 | 9.2% | 1,318.3 | 0.1505 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with heat pumps | 29.0% | 0.0% | 1.73 |
| 7021 | Indirect Feedback (Home Energy Reports) - homes with gas heating | SFA | All | NC | 7,213.0 | 1.5% | 108.2 | 0.0124 | 0.65 | 1 | \$0.00 | Home energy reports in homes with non-electric heating | 71.0% | 0.0% | 5.00 |
| 7022 | Direct (Real Time) Feedback - homes with gas heating | SFA | All | NC | 7,213.0 | 9.2% | 663.6 | 0.0758 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with non-electric heating | 71.0% | 0.0% | 0.92 |
| 7023 | Indirect Feedback (Home Energy Reports) - homes with ASHP | MF | All | Retrofit | 10,399.0 | 1.5% | 156.0 | 0.0178 | 0.65 | 1 | \$0.00 | Home energy reports in homes with heat pumps | 4.9% | 0.0% | 5.00 |
| 7024 | Direct (Real Time) Feedback - homes with ASHP | MF | All | Retrofit | 10,399.0 | 9.2% | 956.7 | 0.1092 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with heat pumps | 4.9% | 5.0% | 1.26 |
| 7025 | Indirect Feedback (Home Energy Reports) - homes with non-ASHP electric heating | MF | All | Retrofit | 11,855.0 | 1.5% | 177.8 | 0.0203 | 0.65 | 1 | \$0.00 | Home energy reports in homes with non-heat pump electric heating | 24.1% | 0.0% | 5.00 |
| 7026 | Direct (Real Time) Feedback - homes with non-ASHP electric heating | MF | All | Retrofit | 11,855.0 | 9.2% | 1,090.7 | 0.1245 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with non-heat pump electric heating | 24.1% | 5.0% | 1.43 |
| 7027 | Indirect Feedback (Home Energy Reports) - homes with gas heating | MF | All | Retrofit | 6,492.0 | 1.5% | 97.4 | 0.0111 | 0.65 | 1 | \$0.00 | Home energy reports in homes with non-electric heating | 71.0% | 0.0% | 5.00 |
| 7028 | Direct (Real Time) Feedback - homes with gas heating | MF | All | Retrofit | 6,492.0 | 9.2% | 597.3 | 0.0682 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with non-electric heating | 71.0% | 5.0% | 0.83 |
| 7029 | Indirect Feedback (Home Energy Reports) - homes with ASHP | MF | All | NC | 9,883.0 | 1.5% | 148.2 | 0.0169 | 0.65 | 1 | \$0.00 | Home energy reports in homes with heat pumps | 29.0% | 0.0% | 5.00 |
| 7030 | Direct (Real Time) Feedback - homes with ASHP | MF | All | NC | 9,883.0 | 9.2% | 909.2 | 0.1038 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with heat pumps | 29.0% | 0.0% | 1.20 |
| 7031 | Indirect Feedback (Home Energy Reports) - homes with gas heating | MF | All | NC | 6,172.0 | 1.5% | 92.6 | 0.0106 | 0.65 | 1 | \$0.00 | Home energy reports in homes with non-electric heating | 71.0% | 0.0% | 5.00 |
| 7032 | Direct (Real Time) Feedback - homes with gas heating | MF | All | NC | 6,172.0 | 9.2% | 567.8 | 0.0648 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with non-electric heating | 71.0% | 0.0% | 0.79 |

Measure Assumptions - PECO

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|---|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|---|-----------------|---------------|-------------------|
| 1000 | Lighting | | | | | | | | | | | | | | |
| 1001 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | NLI | ROB | 37.4 | 65.8% | 24.6 | 0.033 | 0.10 | 5 | \$0.61 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1839.2% | 0.0% | 13.12 |
| 1002 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | NLI | ROB | 67.9 | 69.7% | 47.3 | 0.063 | 0.10 | 5 | \$1.64 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 350.3% | 0.0% | 8.31 |
| 1003 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | NLI | ROB | 37.4 | 78.5% | 29.3 | 0.039 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1839.2% | 0.0% | 3.85 |
| 1004 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | NLI | ROB | 67.9 | 76.3% | 51.8 | 0.069 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 350.3% | 0.0% | 3.03 |
| 1005 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | NLI | ROB | 34.6 | 75.0% | 25.9 | 0.035 | 0.10 | 5 | \$2.71 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1142.6% | 0.0% | 3.06 |
| 1006 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | NLI | ROB | 64.9 | 68.3% | 44.3 | 0.059 | 0.10 | 5 | \$5.26 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 0.0% | 0.0% | 2.74 |
| 1007 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | NLI | ROB | 34.6 | 83.5% | 28.9 | 0.039 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1142.6% | 0.0% | 2.78 |
| 1008 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | NLI | ROB | 64.9 | 75.2% | 48.8 | 0.065 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 0.0% | 0.0% | 2.58 |
| 1009 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | SFD | NLI | ROB | 37.4 | 78.5% | 29.3 | 0.039 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | 918.2% | 100.0% | 3.85 |
| 1010 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | SFD | NLI | ROB | 67.9 | 76.3% | 51.8 | 0.069 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | 174.9% | 100.0% | 3.03 |
| 1011 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | SFD | NLI | ROB | 34.6 | 83.5% | 28.9 | 0.039 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | 36.7% | 100.0% | 2.78 |
| 1012 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | SFD | NLI | ROB | 64.9 | 75.2% | 48.8 | 0.065 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | 0.0% | 100.0% | 2.58 |
| 1013 | CFL Reflector Replacing 65W/75W Reflector | SFD | NLI | ROB | 58.1 | 74.4% | 43.3 | 0.058 | 0.10 | 5 | \$2.15 | CFL Reflector Replacing 65W/75W Reflector | 570.9% | 0.0% | 7.70 |
| 1014 | LED Reflector Replacing 65W/75W Reflector | SFD | NLI | ROB | 58.1 | 83.8% | 48.7 | 0.065 | 0.10 | 15 | \$9.48 | LED Reflector Replacing 65W/75W Reflector | 570.9% | 0.0% | 5.30 |
| 1015 | LED Reflector Replacing CFL Reflector | SFD | NLI | ROB | 58.1 | 83.8% | 48.7 | 0.065 | 0.10 | 15 | \$9.48 | LED Reflector Replacing CFL Reflector | 44.4% | 100.0% | 5.30 |
| 1016 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | SFD | NLI | ROB | 48.2 | 69.6% | 33.5 | 0.037 | 0.10 | 5 | \$1.35 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | 455.3% | 0.0% | 8.24 |
| 1017 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | SFD | NLI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | 455.3% | 0.0% | 4.18 |
| 1018 | Exterior LED Bulb Replacing Exterior CFL Bulb | SFD | NLI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior CFL Bulb | 100.2% | 100.0% | 4.18 |
| 1019 | Residential Occupancy Sensors | SFD | ALL | Retrofit | 96.5 | 30.0% | 28.9 | 0.028 | 0.10 | 10 | \$63.50 | Residential Occupancy Sensors | 150.0% | 5.0% | 0.21 |
| 1020 | Electroluminescent Nightlight | SFD | NLI | ROB | 29.7 | 99.1% | 29.5 | 0.007 | 0.00 | 8 | \$1.92 | Replaces standard nightlighting with electroluminescent nightlight | 79.0% | 32.0% | 4.81 |
| 1021 | LED Nightlight | SFD | NLI | ROB | 29.7 | 85.7% | 25.5 | 0.006 | 0.00 | 8 | \$2.51 | Replaces standard nightlighting with LED nightlight | 79.0% | 32.0% | 3.18 |
| 1022 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | LI | ROB | 37.4 | 65.8% | 24.6 | 0.033 | 0.10 | 5 | \$0.61 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1839.2% | 0.0% | 13.12 |
| 1023 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | LI | ROB | 67.9 | 69.7% | 47.3 | 0.063 | 0.10 | 5 | \$1.64 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 350.3% | 0.0% | 8.31 |
| 1024 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | LI | ROB | 37.4 | 78.5% | 29.3 | 0.039 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1839.2% | 0.0% | 3.85 |
| 1025 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | LI | ROB | 67.9 | 76.3% | 51.8 | 0.069 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 350.3% | 0.0% | 3.03 |
| 1026 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | LI | ROB | 34.6 | 75.0% | 25.9 | 0.035 | 0.10 | 5 | \$2.71 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1142.6% | 0.0% | 3.06 |
| 1027 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | LI | ROB | 64.9 | 68.3% | 44.3 | 0.059 | 0.10 | 5 | \$5.26 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 0.0% | 0.0% | 2.74 |
| 1028 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | LI | ROB | 34.6 | 83.5% | 28.9 | 0.039 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1142.6% | 0.0% | 2.78 |
| 1029 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | LI | ROB | 64.9 | 75.2% | 48.8 | 0.065 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 0.0% | 0.0% | 2.58 |
| 1030 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | SFD | LI | ROB | 37.4 | 78.5% | 29.3 | 0.039 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | 918.2% | 100.0% | 3.85 |
| 1031 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | SFD | LI | ROB | 67.9 | 76.3% | 51.8 | 0.069 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | 174.9% | 100.0% | 3.03 |
| 1032 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | SFD | LI | ROB | 34.6 | 83.5% | 28.9 | 0.039 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | 36.7% | 100.0% | 2.78 |
| 1033 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | SFD | LI | ROB | 64.9 | 75.2% | 48.8 | 0.065 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | 0.0% | 100.0% | 2.58 |
| 1034 | CFL Reflector Replacing 65W/75W Reflector | SFD | LI | ROB | 58.1 | 74.4% | 43.3 | 0.058 | 0.10 | 5 | \$2.15 | CFL Reflector Replacing 65W/75W Reflector | 570.9% | 0.0% | 7.70 |
| 1035 | LED Reflector Replacing 65W/75W Reflector | SFD | LI | ROB | 58.1 | 83.8% | 48.7 | 0.065 | 0.10 | 15 | \$9.48 | LED Reflector Replacing 65W/75W Reflector | 570.9% | 0.0% | 5.30 |
| 1036 | LED Reflector Replacing CFL Reflector | SFD | LI | ROB | 58.1 | 83.8% | 48.7 | 0.065 | 0.10 | 15 | \$9.48 | LED Reflector Replacing CFL Reflector | 44.4% | 100.0% | 5.30 |
| 1037 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | SFD | LI | ROB | 48.2 | 69.6% | 33.5 | 0.037 | 0.10 | 5 | \$1.35 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | 455.3% | 0.0% | 8.24 |
| 1038 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | SFD | LI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | 455.3% | 0.0% | 4.18 |
| 1039 | Exterior LED Bulb Replacing Exterior CFL Bulb | SFD | LI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior CFL Bulb | 100.2% | 100.0% | 4.18 |
| 1040 | LED Nightlight | SFD | LI | ROB | 29.7 | 85.7% | 25.5 | 0.006 | 0.00 | 8 | \$2.51 | Replaces standard nightlighting with LED nightlight | 79.0% | 32.0% | 3.18 |

Measure Assumptions - PECO

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|---|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|---|-----------------|---------------|-------------------|
| 1041 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | ALL | NC | 37.4 | 65.8% | 24.6 | 0.033 | 0.10 | 5 | \$0.61 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 2808.0% | 0.0% | 13.12 |
| 1042 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | ALL | NC | 67.9 | 69.7% | 47.3 | 0.063 | 0.10 | 5 | \$1.64 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 534.9% | 0.0% | 8.31 |
| 1043 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | ALL | NC | 37.4 | 78.5% | 29.3 | 0.039 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 2808.0% | 0.0% | 3.85 |
| 1044 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | ALL | NC | 67.9 | 76.3% | 51.8 | 0.069 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 534.9% | 0.0% | 3.03 |
| 1045 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | ALL | NC | 34.6 | 75.0% | 25.9 | 0.035 | 0.10 | 5 | \$2.71 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1182.9% | 0.0% | 3.06 |
| 1046 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | ALL | NC | 64.9 | 68.3% | 44.3 | 0.059 | 0.10 | 5 | \$5.26 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 0.0% | 0.0% | 2.74 |
| 1047 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | ALL | NC | 34.6 | 83.5% | 28.9 | 0.039 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1182.9% | 0.0% | 2.78 |
| 1048 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | ALL | NC | 64.9 | 75.2% | 48.8 | 0.065 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 0.0% | 0.0% | 2.58 |
| 1049 | CFL Reflector Replacing 65W/75W Reflector | SFD | ALL | NC | 58.1 | 74.4% | 43.3 | 0.058 | 0.10 | 5 | \$2.15 | CFL Reflector Replacing 65W/75W Reflector | 617.1% | 0.0% | 7.70 |
| 1050 | LED Reflector Replacing 65W/75W Reflector | SFD | ALL | NC | 58.1 | 83.8% | 48.7 | 0.065 | 0.10 | 15 | \$9.48 | LED Reflector Replacing 65W/75W Reflector | 617.1% | 0.0% | 5.30 |
| 1051 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | SFD | ALL | NC | 48.2 | 69.6% | 33.5 | 0.037 | 0.10 | 5 | \$1.35 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | 560.0% | 0.0% | 8.24 |
| 1052 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | SFD | ALL | NC | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | 560.0% | 0.0% | 4.18 |
| 1053 | Residential Occupancy Sensors | SFD | ALL | NC | 96.5 | 30.0% | 28.9 | 0.028 | 0.10 | 10 | \$63.50 | Residential Occupancy Sensors | 150.0% | 0.0% | 0.21 |
| 1054 | Electroluminescent Nightlight | SFD | ALL | NC | 29.7 | 99.1% | 29.5 | 0.007 | 0.00 | 8 | \$1.92 | Replaces standard nightlighting with electroluminescent nightlight | 79.0% | 0.0% | 4.81 |
| 1055 | LED Nightlight | SFD | ALL | NC | 29.7 | 85.7% | 25.5 | 0.006 | 0.00 | 8 | \$2.51 | Replaces standard nightlighting with LED nightlight | 79.0% | 0.0% | 3.18 |
| 1056 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | NLI | ROB | 37.4 | 65.8% | 24.6 | 0.033 | 0.10 | 5 | \$0.61 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1235.8% | 0.0% | 13.12 |
| 1057 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | NLI | ROB | 67.9 | 69.7% | 47.3 | 0.063 | 0.10 | 5 | \$1.64 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 184.7% | 0.0% | 8.31 |
| 1058 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | NLI | ROB | 37.4 | 78.5% | 29.3 | 0.039 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1235.8% | 0.0% | 3.85 |
| 1059 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | NLI | ROB | 67.9 | 76.3% | 51.8 | 0.069 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 184.7% | 0.0% | 3.03 |
| 1060 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | NLI | ROB | 34.6 | 75.0% | 25.9 | 0.035 | 0.10 | 5 | \$2.71 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 612.1% | 0.0% | 3.06 |
| 1061 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | NLI | ROB | 64.9 | 68.3% | 44.3 | 0.059 | 0.10 | 5 | \$5.26 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 25.5% | 0.0% | 2.74 |
| 1062 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | NLI | ROB | 34.6 | 83.5% | 28.9 | 0.039 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 612.1% | 0.0% | 2.78 |
| 1063 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | NLI | ROB | 64.9 | 75.2% | 48.8 | 0.065 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 25.5% | 0.0% | 2.58 |
| 1064 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | SFA | NLI | ROB | 37.4 | 78.5% | 29.3 | 0.039 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | 616.9% | 100.0% | 3.85 |
| 1065 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | SFA | NLI | ROB | 67.9 | 76.3% | 51.8 | 0.069 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | 92.2% | 100.0% | 3.03 |
| 1066 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | SFA | NLI | ROB | 34.6 | 83.5% | 28.9 | 0.039 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | 19.6% | 100.0% | 2.78 |
| 1067 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | SFA | NLI | ROB | 64.9 | 75.2% | 48.8 | 0.065 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | 0.8% | 100.0% | 2.58 |
| 1068 | CFL Reflector Replacing 65W/75W Reflector | SFA | NLI | ROB | 58.1 | 74.4% | 43.3 | 0.058 | 0.10 | 5 | \$2.15 | CFL Reflector Replacing 65W/75W Reflector | 290.7% | 0.0% | 7.70 |
| 1069 | LED Reflector Replacing 65W/75W Reflector | SFA | NLI | ROB | 58.1 | 83.8% | 48.7 | 0.065 | 0.10 | 15 | \$9.48 | LED Reflector Replacing 65W/75W Reflector | 290.7% | 0.0% | 5.30 |
| 1070 | LED Reflector Replacing CFL Reflector | SFA | NLI | ROB | 58.1 | 83.8% | 48.7 | 0.065 | 0.10 | 15 | \$9.48 | LED Reflector Replacing CFL Reflector | 22.6% | 100.0% | 5.30 |
| 1071 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | SFA | NLI | ROB | 48.2 | 69.6% | 33.5 | 0.037 | 0.10 | 5 | \$1.35 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | 130.1% | 0.0% | 8.24 |
| 1072 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | SFA | NLI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | 130.1% | 0.0% | 4.18 |
| 1073 | Exterior LED Bulb Replacing Exterior CFL Bulb | SFA | NLI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior CFL Bulb | 28.6% | 100.0% | 4.18 |
| 1074 | Residential Occupancy Sensors | SFA | ALL | Retrofit | 96.5 | 30.0% | 28.9 | 0.028 | 0.10 | 10 | \$63.50 | Residential Occupancy Sensors | 150.0% | 5.0% | 0.21 |
| 1075 | Electroluminescent Nightlight | SFA | NLI | ROB | 29.7 | 99.1% | 29.5 | 0.007 | 0.00 | 8 | \$1.92 | Replaces standard nightlighting with electroluminescent nightlight | 42.0% | 32.0% | 4.81 |
| 1076 | LED Nightlight | SFA | NLI | ROB | 29.7 | 85.7% | 25.5 | 0.006 | 0.00 | 8 | \$2.51 | Replaces standard nightlighting with LED nightlight | 42.0% | 32.0% | 3.18 |
| 1077 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | LI | ROB | 37.4 | 65.8% | 24.6 | 0.033 | 0.10 | 5 | \$0.61 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1235.8% | 0.0% | 13.12 |
| 1078 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | LI | ROB | 67.9 | 69.7% | 47.3 | 0.063 | 0.10 | 5 | \$1.64 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 184.7% | 0.0% | 8.31 |
| 1079 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | LI | ROB | 37.4 | 78.5% | 29.3 | 0.039 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1235.8% | 0.0% | 3.85 |

Measure Assumptions - PECO

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|---|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|---|-----------------|---------------|-------------------|
| 1080 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | LI | ROB | 67.9 | 76.3% | 51.8 | 0.069 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 184.7% | 0.0% | 3.03 |
| 1081 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | LI | ROB | 34.6 | 75.0% | 25.9 | 0.035 | 0.10 | 5 | \$2.71 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 612.1% | 0.0% | 3.06 |
| 1082 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | LI | ROB | 64.9 | 68.3% | 44.3 | 0.059 | 0.10 | 5 | \$5.26 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 25.5% | 0.0% | 2.74 |
| 1083 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | LI | ROB | 34.6 | 83.5% | 28.9 | 0.039 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 612.1% | 0.0% | 2.78 |
| 1084 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | LI | ROB | 64.9 | 75.2% | 48.8 | 0.065 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 25.5% | 0.0% | 2.58 |
| 1085 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | SFA | LI | ROB | 37.4 | 78.5% | 29.3 | 0.039 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | 616.9% | 100.0% | 3.85 |
| 1086 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | SFA | LI | ROB | 67.9 | 76.3% | 51.8 | 0.069 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | 92.2% | 100.0% | 3.03 |
| 1087 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | SFA | LI | ROB | 34.6 | 83.5% | 28.9 | 0.039 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | 19.6% | 100.0% | 2.78 |
| 1088 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | SFA | LI | ROB | 64.9 | 75.2% | 48.8 | 0.065 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | 0.8% | 100.0% | 2.58 |
| 1089 | CFL Reflector Replacing 65W/75W Reflector | SFA | LI | ROB | 58.1 | 74.4% | 43.3 | 0.058 | 0.10 | 5 | \$2.15 | CFL Reflector Replacing 65W/75W Reflector | 290.7% | 0.0% | 7.70 |
| 1090 | LED Reflector Replacing 65W/75W Reflector | SFA | LI | ROB | 58.1 | 83.8% | 48.7 | 0.065 | 0.10 | 15 | \$9.48 | LED Reflector Replacing 65W/75W Reflector | 290.7% | 0.0% | 5.30 |
| 1091 | LED Reflector Replacing CFL Reflector | SFA | LI | ROB | 58.1 | 83.8% | 48.7 | 0.065 | 0.10 | 15 | \$9.48 | LED Reflector Replacing CFL Reflector | 22.6% | 100.0% | 5.30 |
| 1092 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | SFA | LI | ROB | 48.2 | 69.6% | 33.5 | 0.037 | 0.10 | 5 | \$1.35 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | 130.1% | 0.0% | 8.24 |
| 1093 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | SFA | LI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | 130.1% | 0.0% | 4.18 |
| 1094 | Exterior LED Bulb Replacing Exterior CFL Bulb | SFA | LI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior CFL Bulb | 28.6% | 100.0% | 4.18 |
| 1095 | LED Nightlight | SFA | LI | ROB | 29.7 | 85.7% | 25.5 | 0.006 | 0.00 | 8 | \$2.51 | Replaces standard nightlighting with LED nightlight | 42.0% | 32.0% | 3.18 |
| 1096 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | ALL | NC | 37.4 | 65.8% | 24.6 | 0.033 | 0.10 | 5 | \$0.61 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1886.7% | 0.0% | 13.12 |
| 1097 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | ALL | NC | 67.9 | 69.7% | 47.3 | 0.063 | 0.10 | 5 | \$1.64 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 281.9% | 0.0% | 8.31 |
| 1098 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | ALL | NC | 37.4 | 78.5% | 29.3 | 0.039 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1886.7% | 0.0% | 3.85 |
| 1099 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | ALL | NC | 67.9 | 76.3% | 51.8 | 0.069 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 281.9% | 0.0% | 3.03 |
| 1100 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | ALL | NC | 34.6 | 75.0% | 25.9 | 0.035 | 0.10 | 5 | \$2.71 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 633.6% | 0.0% | 3.06 |
| 1101 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | ALL | NC | 64.9 | 68.3% | 44.3 | 0.059 | 0.10 | 5 | \$5.26 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 26.4% | 0.0% | 2.74 |
| 1102 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | ALL | NC | 34.6 | 83.5% | 28.9 | 0.039 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 633.6% | 0.0% | 2.78 |
| 1103 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | ALL | NC | 64.9 | 75.2% | 48.8 | 0.065 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 26.4% | 0.0% | 2.58 |
| 1104 | CFL Reflector Replacing 65W/75W Reflector | SFA | ALL | NC | 58.1 | 74.4% | 43.3 | 0.058 | 0.10 | 5 | \$2.15 | CFL Reflector Replacing 65W/75W Reflector | 314.3% | 0.0% | 7.70 |
| 1105 | LED Reflector Replacing 65W/75W Reflector | SFA | ALL | NC | 58.1 | 83.8% | 48.7 | 0.065 | 0.10 | 15 | \$9.48 | LED Reflector Replacing 65W/75W Reflector | 314.3% | 0.0% | 5.30 |
| 1106 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | SFA | ALL | NC | 48.2 | 69.6% | 33.5 | 0.037 | 0.10 | 5 | \$1.35 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | 160.0% | 0.0% | 8.24 |
| 1107 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | SFA | ALL | NC | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | 130.1% | 0.0% | 4.18 |
| 1108 | Residential Occupancy Sensors | SFA | ALL | NC | 96.5 | 30.0% | 28.9 | 0.028 | 0.10 | 10 | \$63.50 | Residential Occupancy Sensors | 150.0% | 0.0% | 0.21 |
| 1109 | Electroluminescent Nightlight | SFA | ALL | NC | 29.7 | 99.1% | 29.5 | 0.007 | 0.00 | 8 | \$1.92 | Replaces standard nightlighting with electroluminescent nightlight | 42.0% | 0.0% | 4.81 |
| 1110 | LED Nightlight | SFA | ALL | NC | 29.7 | 85.7% | 25.5 | 0.006 | 0.00 | 8 | \$2.51 | Replaces standard nightlighting with LED nightlight | 42.0% | 0.0% | 3.18 |
| 1111 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | NLI | ROB | 37.4 | 65.8% | 24.6 | 0.033 | 0.10 | 5 | \$0.61 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 772.5% | 0.0% | 13.12 |
| 1112 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | NLI | ROB | 67.9 | 69.7% | 47.3 | 0.063 | 0.10 | 5 | \$1.64 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 125.8% | 0.0% | 8.31 |
| 1113 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | NLI | ROB | 37.4 | 78.5% | 29.3 | 0.039 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 772.5% | 0.0% | 3.85 |
| 1114 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | NLI | ROB | 67.9 | 76.3% | 51.8 | 0.069 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 125.8% | 0.0% | 3.03 |
| 1115 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | NLI | ROB | 34.6 | 75.0% | 25.9 | 0.035 | 0.10 | 5 | \$2.71 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 262.3% | 0.0% | 3.06 |
| 1116 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | NLI | ROB | 64.9 | 68.3% | 44.3 | 0.059 | 0.10 | 5 | \$5.26 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 2.6% | 0.0% | 2.74 |
| 1117 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | NLI | ROB | 34.6 | 83.5% | 28.9 | 0.039 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 262.3% | 0.0% | 2.78 |
| 1118 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | NLI | ROB | 64.9 | 75.2% | 48.8 | 0.065 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 2.6% | 0.0% | 2.58 |

Measure Assumptions - PECO

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|---|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|---|-----------------|---------------|-------------------|
| 1119 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | MF | NLI | ROB | 37.4 | 78.5% | 29.3 | 0.039 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | 385.7% | 100.0% | 3.85 |
| 1120 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | MF | NLI | ROB | 67.9 | 76.3% | 51.8 | 0.069 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | 62.8% | 100.0% | 3.03 |
| 1121 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | MF | NLI | ROB | 34.6 | 83.5% | 28.9 | 0.039 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | 8.4% | 100.0% | 2.78 |
| 1122 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | MF | NLI | ROB | 64.9 | 75.2% | 48.8 | 0.065 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | 0.1% | 100.0% | 2.58 |
| 1123 | CFL Reflector Replacing 65W/75W Reflector | MF | NLI | ROB | 58.1 | 74.4% | 43.3 | 0.058 | 0.10 | 5 | \$2.15 | CFL Reflector Replacing 65W/75W Reflector | 63.4% | 0.0% | 7.70 |
| 1124 | LED Reflector Replacing 65W/75W Reflector | MF | NLI | ROB | 58.1 | 83.8% | 48.7 | 0.065 | 0.10 | 15 | \$9.48 | LED Reflector Replacing 65W/75W Reflector | 63.4% | 0.0% | 5.30 |
| 1125 | LED Reflector Replacing CFL Reflector | MF | NLI | ROB | 58.1 | 83.8% | 48.7 | 0.065 | 0.10 | 15 | \$9.48 | LED Reflector Replacing CFL Reflector | 4.9% | 100.0% | 5.30 |
| 1126 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | MF | NLI | ROB | 48.2 | 69.6% | 33.5 | 0.037 | 0.10 | 5 | \$1.35 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | 65.0% | 0.0% | 8.24 |
| 1127 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | MF | NLI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | 65.0% | 0.0% | 4.18 |
| 1128 | Exterior LED Bulb Replacing Exterior CFL Bulb | MF | NLI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior CFL Bulb | 14.3% | 100.0% | 4.18 |
| 1129 | Residential Occupancy Sensors | MF | ALL | Retrofit | 96.5 | 30.0% | 28.9 | 0.028 | 0.10 | 10 | \$63.50 | Residential Occupancy Sensors | 100.0% | 5.0% | 0.21 |
| 1130 | Electroluminescent Nightlight | MF | NLI | ROB | 29.7 | 99.1% | 29.5 | 0.007 | 0.00 | 8 | \$1.92 | Replaces standard nightlighting with electroluminescent nightlight | 18.0% | 32.0% | 4.81 |
| 1131 | LED Nightlight | MF | NLI | ROB | 29.7 | 85.7% | 25.5 | 0.006 | 0.00 | 8 | \$2.51 | Replaces standard nightlighting with LED nightlight | 18.0% | 32.0% | 3.18 |
| 1132 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | LI | ROB | 37.4 | 65.8% | 24.6 | 0.033 | 0.10 | 5 | \$0.61 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 772.5% | 0.0% | 13.12 |
| 1133 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | LI | ROB | 67.9 | 69.7% | 47.3 | 0.063 | 0.10 | 5 | \$1.64 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 125.8% | 0.0% | 8.31 |
| 1134 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | LI | ROB | 37.4 | 78.5% | 29.3 | 0.039 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 772.5% | 0.0% | 3.85 |
| 1135 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | LI | ROB | 67.9 | 76.3% | 51.8 | 0.069 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 125.8% | 0.0% | 3.03 |
| 1136 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | LI | ROB | 34.6 | 75.0% | 25.9 | 0.035 | 0.10 | 5 | \$2.71 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 262.3% | 0.0% | 3.06 |
| 1137 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | LI | ROB | 64.9 | 68.3% | 44.3 | 0.059 | 0.10 | 5 | \$5.26 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 2.6% | 0.0% | 2.74 |
| 1138 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | LI | ROB | 34.6 | 83.5% | 28.9 | 0.039 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 262.3% | 0.0% | 2.78 |
| 1139 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | LI | ROB | 64.9 | 75.2% | 48.8 | 0.065 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 2.6% | 0.0% | 2.58 |
| 1140 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | MF | LI | ROB | 37.4 | 78.5% | 29.3 | 0.039 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | 385.7% | 100.0% | 3.85 |
| 1141 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | MF | LI | ROB | 67.9 | 76.3% | 51.8 | 0.069 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | 62.8% | 100.0% | 3.03 |
| 1142 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | MF | LI | ROB | 34.6 | 83.5% | 28.9 | 0.039 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | 8.4% | 100.0% | 2.78 |
| 1143 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | MF | LI | ROB | 64.9 | 75.2% | 48.8 | 0.065 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | 0.1% | 100.0% | 2.58 |
| 1144 | CFL Reflector Replacing 65W/75W Reflector | MF | LI | ROB | 58.1 | 74.4% | 43.3 | 0.058 | 0.10 | 5 | \$2.15 | CFL Reflector Replacing 65W/75W Reflector | 63.4% | 0.0% | 7.70 |
| 1145 | LED Reflector Replacing 65W/75W Reflector | MF | LI | ROB | 58.1 | 83.8% | 48.7 | 0.065 | 0.10 | 15 | \$9.48 | LED Reflector Replacing 65W/75W Reflector | 63.4% | 0.0% | 5.30 |
| 1146 | LED Reflector Replacing CFL Reflector | MF | LI | ROB | 58.1 | 83.8% | 48.7 | 0.065 | 0.10 | 15 | \$9.48 | LED Reflector Replacing CFL Reflector | 4.9% | 100.0% | 5.30 |
| 1147 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | MF | LI | ROB | 48.2 | 69.6% | 33.5 | 0.037 | 0.10 | 5 | \$1.35 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | 65.0% | 0.0% | 8.24 |
| 1148 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | MF | LI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | 65.0% | 0.0% | 4.18 |
| 1149 | Exterior LED Bulb Replacing Exterior CFL Bulb | MF | LI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior CFL Bulb | 14.3% | 100.0% | 4.18 |
| 1150 | LED Nightlight | MF | LI | ROB | 29.7 | 85.7% | 25.5 | 0.006 | 0.00 | 8 | \$2.51 | Replaces standard nightlighting with LED nightlight | 18.0% | 32.0% | 3.18 |
| 1151 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | ALL | NC | 37.4 | 65.8% | 24.6 | 0.033 | 0.10 | 5 | \$0.61 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1179.4% | 0.0% | 13.12 |
| 1152 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | ALL | NC | 67.9 | 69.7% | 47.3 | 0.063 | 0.10 | 5 | \$1.64 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 192.0% | 0.0% | 8.31 |
| 1153 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | ALL | NC | 37.4 | 78.5% | 29.3 | 0.039 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1179.4% | 0.0% | 3.85 |
| 1154 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | ALL | NC | 67.9 | 76.3% | 51.8 | 0.069 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 192.0% | 0.0% | 3.03 |
| 1155 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | ALL | NC | 34.6 | 75.0% | 25.9 | 0.035 | 0.10 | 5 | \$2.71 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 271.5% | 0.0% | 3.06 |
| 1156 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | ALL | NC | 64.9 | 68.3% | 44.3 | 0.059 | 0.10 | 5 | \$5.26 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 2.7% | 0.0% | 2.74 |
| 1157 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | ALL | NC | 34.6 | 83.5% | 28.9 | 0.039 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 271.5% | 0.0% | 2.78 |
| 1158 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | ALL | NC | 64.9 | 75.2% | 48.8 | 0.065 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 2.7% | 0.0% | 2.58 |
| 1159 | CFL Reflector Replacing 65W/75W Reflector | MF | ALL | NC | 58.1 | 74.4% | 43.3 | 0.058 | 0.10 | 5 | \$2.15 | CFL Reflector Replacing 65W/75W Reflector | 68.6% | 0.0% | 7.70 |
| 1160 | LED Reflector Replacing 65W/75W Reflector | MF | ALL | NC | 58.1 | 83.8% | 48.7 | 0.065 | 0.10 | 15 | \$9.48 | LED Reflector Replacing 65W/75W Reflector | 68.6% | 0.0% | 5.30 |

Measure Assumptions - PECO

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|---|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|--|-----------------|---------------|-------------------|
| 1161 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | MF | ALL | NC | 48.2 | 69.6% | 33.5 | 0.037 | 0.10 | 5 | \$1.35 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | 80.0% | 0.0% | 8.24 |
| 1162 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | MF | ALL | NC | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | 80.0% | 0.0% | 4.18 |
| 1163 | Residential Occupancy Sensors | MF | ALL | NC | 96.5 | 30.0% | 28.9 | 0.028 | 0.10 | 10 | \$63.50 | Residential Occupancy Sensors | 150.0% | 0.0% | 0.21 |
| 1164 | Electroluminescent Nightlight | MF | ALL | NC | 29.7 | 99.1% | 29.5 | 0.007 | 0.00 | 8 | \$1.92 | Replaces standard nightlighting with electroluminescent nightlight | 18.0% | 0.0% | 4.81 |
| 1165 | LED Nightlight | MF | ALL | NC | 29.7 | 85.7% | 25.5 | 0.006 | 0.00 | 8 | \$2.51 | Replaces standard nightlighting with LED nightlight | 18.0% | 0.0% | 3.18 |
| 2000 | HVAC Equipment | | | | | | | | | | | | | | |
| 2001 | Central AC Maintenance (10.4 SEER to 11 SEER) | SFD | NLI | Retrofit | 2,485.0 | 1.9% | 46.0 | 0.163 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of central AC units in homes with central air conditioning | 74.0% | 63.0% | 0.62 |
| 2002 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) | SFD | NLI | ROB | 1,984.0 | 10.6% | 211.0 | 0.276 | 0.65 | 14 | \$1,407.82 | Installation of 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 74.0% | 17.0% | 0.19 |
| 2003 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) | SFD | NLI | ROB | 1,984.0 | 15.1% | 299.0 | 0.391 | 0.65 | 14 | \$2,588.05 | Installation of 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 74.0% | 17.0% | 0.14 |
| 2004 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) - with proper sizing | SFD | NLI | ROB | 1,984.0 | 11.0% | 219.0 | 0.297 | 0.65 | 14 | \$1,319.00 | Installation of properly sized 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 74.0% | 17.0% | 0.21 |
| 2005 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) - with proper sizing | SFD | NLI | ROB | 1,984.0 | 15.5% | 307.0 | 0.409 | 0.65 | 14 | \$2,499.23 | Installation of properly sized 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 74.0% | 17.0% | 0.15 |
| 2006 | Air Source Heat Pump Maintenance (12.3 SEER to 13 SEER / 7.3 hspf to 7.7 hspf) | SFD | NLI | Retrofit | 6,932.0 | 7.1% | 489.0 | 0.171 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of air-source heat pump in homes with air-source heat pumps | 6.0% | 66.0% | 1.95 |
| 2007 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 15 SEER / 8.5 hspf) | SFD | NLI | ROB | 5,968.0 | 3.7% | 218.0 | 0.064 | 0.65 | 12 | \$1,116.43 | Installation of 15 SEER / 8.5 hspf instead of standard air-source heat pump in homes with heat pumps | 6.0% | 17.0% | 0.12 |
| 2008 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 16 SEER / 9.0 hspf) | SFD | NLI | ROB | 5,968.0 | 9.2% | 549.0 | 0.116 | 0.65 | 12 | \$1,381.27 | Installation of 16 SEER / 9.0 hspf instead of standard air-source heat pump in homes with heat pumps | 6.0% | 17.0% | 0.23 |
| 2009 | ENERGY STAR Ground Source Heat Pump (14 SEER / 8.0 hspf to 17.1 EER / 3.6 COP) | SFD | NLI | ROB | 5,968.0 | 14.2% | 850.0 | 0.356 | 0.65 | 30 | \$12,709.14 | Installation of 17.1 EER / 3.6 COP ground source heat pump instead of standard air-source heat pump in homes with heat pumps | 6.0% | 17.0% | 0.05 |
| 2010 | ENERGY STAR Ground Source Heat Pump (14 SEER / 8.0 hspf to 17.1 EER / 3.6 COP) - with desuperheater | SFD | NLI | ROB | 5,968.0 | 23.7% | 1,417.0 | 0.356 | 0.65 | 30 | \$12,071.37 | Installation of 17.1 EER / 3.6 COP ground source heat pump (with a desuperheater) instead of standard air-source heat pump in homes with heat pumps | 6.0% | 17.0% | 0.08 |
| 2011 | ENERGY STAR Air Source Heat Pump (Elec Furnace / CAC to 16 SEER / 9.0 hspf) | SFD | NLI | ROB | 13,763.0 | 60.6% | 8,344.0 | 0.266 | 0.65 | 12 | \$3,158.48 | Installation of 16 SEER / 9.0 hspf instead of electric furnace in homes with electric furnaces | 4.0% | 0.0% | 1.30 |
| 2012 | ENERGY STAR Ground Source Heat Pump (Electric Furnace / CAC to 17.1 EER / 3.6 COP) - with desuperheater | SFD | NLI | ROB | 13,763.0 | 60.6% | 8,344.0 | 0.266 | 0.65 | 30 | \$17,454.97 | Installation of 17.1 EER / 3.6 COP ground source heat pump (with a desuperheater) instead of electric furnace in homes with electric furnaces | 4.0% | 0.0% | 0.28 |
| 2013 | High Efficiency Furnace Fan (on existing furnace) - electric heating and central AC | SFD | ALL | Retrofit | 13,763.0 | 3.2% | 446.0 | 0.176 | 0.65 | 18 | \$360.00 | Installation of high efficiency furnace fan on existing furnace in homes with electric furnaces | 17.0% | 34.0% | 0.96 |
| 2014 | High Efficiency Furnace Fan (on existing furnace) - non-electric heating and central AC | SFD | ALL | Retrofit | 2,439.0 | 18.3% | 446.0 | 0.176 | 0.65 | 18 | \$360.00 | Installation of high efficiency furnace fan on existing furnace in homes with non-electric furnaces | 43.0% | 34.0% | 0.96 |
| 2015 | Furnace Whistle - electric heating and central AC | SFD | NLI | Retrofit | 9,030.3 | 0.6% | 58.7 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on electric furnaces in homes with electric forced air heating | 17.0% | 10.0% | 58.36 |
| 2016 | Furnace Whistle - non-electric heating and central AC | SFD | NLI | Retrofit | 2,439.0 | 0.9% | 21.0 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on non-electric furnaces in homes with non-electric forced air heating | 43.0% | 10.0% | 39.19 |
| 2017 | Ductless Mini-Split Heat Pump (16 SEER / 9.0 hspf) - replacing baseboard/room AC | SFD | ALL | ROB | 13,259.0 | 62.8% | 8,329.0 | 1.555 | 0.30 | 15 | \$3,570.80 | Installation of a 16 SEER / 9.0 hspf ductless minisplit heat pump to replace baseboard heating in homes with baseboard heating and room air conditioning | 11.6% | 0.0% | 1.45 |
| 2018 | Ductless Mini-Split Air Conditioner (16 SEER) replacing room AC | SFD | ALL | ROB | 2,240.0 | 32.9% | 738.0 | 1.548 | 0.30 | 15 | \$3,570.80 | Installation of a 16 SEER / 9.0 hspf ductless minisplit air conditioner instead of standard room air conditioner in homes with room air conditioning and any form of electric heating other than baseboard heating | 11.6% | 31.0% | 0.24 |
| 2019 | High Efficiency Room Air Conditioner (11 CEER to 12 CEER) | SFD | NLI | ROB | 2,240.0 | 0.5% | 11.1 | 0.061 | 0.30 | 9 | \$40.00 | Installation of a high efficiency room air conditioner instead of standard room air conditioner in homes with room air conditioning and any form of electric heating other than baseboard heating | 90.3% | 31.0% | 0.36 |
| 2020 | Room AC Retirement | SFD | ALL | Retrofit | 2,510.8 | 8.0% | 202.0 | 0.640 | 0.30 | 4 | \$60.00 | Retirement of supplemental room air conditioners (not primary or secondary) in homes with room air conditioners | 50.0% | 0.0% | 1.54 |
| 2021 | Programmable Thermostat (electric heating and air conditioning) | SFD | NLI | Retrofit | 10,341.2 | 3.3% | 336.6 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with electric heating and air conditioning | 12.7% | 53.0% | 2.39 |
| 2022 | Smart Thermostat (electric heating and air conditioning) | SFD | NLI | Retrofit | 10,341.2 | 10.9% | 1,125.8 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with electric heating and air conditioning | 12.7% | 53.0% | 2.05 |
| 2023 | Programmable Thermostat (non-electric heating and air conditioning) | SFD | NLI | Retrofit | 2,439.0 | 2.0% | 48.8 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with non-electric heating and air conditioning | 85.3% | 53.0% | 0.39 |

Measure Assumptions - PECO

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|---|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|---|-----------------|---------------|-------------------|
| 2024 | Smart Thermostat (non-electric heating and air conditioning) | SFD | NLI | Retrofit | 2,439.0 | 14.1% | 344.0 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with non-electric heating and air conditioning | 85.3% | 53.0% | 0.71 |
| 2025 | Residential Whole House Fan | SFD | ALL | Retrofit | 2,439.0 | 9.4% | 229.0 | 0.000 | 0.65 | 15 | \$533.86 | Installation of residential whole house fan in homes with air conditioning | 98.0% | 9.1% | 0.28 |
| 2026 | Central AC Maintenance (10.4 SEER to 11 SEER) | SFD | LI | Retrofit | 2,485.0 | 1.9% | 46.0 | 0.163 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of central AC units in homes with central air conditioning | 74.0% | 63.0% | 0.62 |
| 2027 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) | SFD | LI | ROB | 1,984.0 | 10.6% | 211.0 | 0.276 | 0.65 | 14 | \$1,407.82 | Installation of 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 74.0% | 17.0% | 0.19 |
| 2028 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) | SFD | LI | ROB | 1,984.0 | 15.1% | 299.0 | 0.391 | 0.65 | 14 | \$2,588.05 | Installation of 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 74.0% | 17.0% | 0.14 |
| 2029 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) - with proper sizing | SFD | LI | ROB | 1,984.0 | 11.0% | 219.0 | 0.297 | 0.65 | 14 | \$1,319.00 | Installation of properly sized 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 74.0% | 17.0% | 0.21 |
| 2030 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) - with proper sizing | SFD | LI | ROB | 1,984.0 | 15.5% | 307.0 | 0.409 | 0.65 | 14 | \$2,499.23 | Installation of properly sized 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 74.0% | 17.0% | 0.15 |
| 2031 | Air Source Heat Pump Maintenance (12.3 SEER to 13 SEER / 7.3 hspf to 7.7 hspf) | SFD | LI | Retrofit | 6,932.0 | 7.1% | 489.0 | 0.171 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of air-source heat pump in homes with air-source heat pumps | 6.0% | 66.0% | 1.95 |
| 2032 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 15 SEER / 8.5 hspf) | SFD | LI | ROB | 5,968.0 | 3.7% | 218.0 | 0.064 | 0.65 | 12 | \$1,116.43 | Installation of 15 SEER / 8.5 hspf instead of standard air-source heat pump in homes with heat pumps | 6.0% | 17.0% | 0.12 |
| 2033 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 16 SEER / 9.0 hspf) | SFD | LI | ROB | 5,968.0 | 9.2% | 549.0 | 0.116 | 0.65 | 12 | \$1,381.27 | Installation of 16 SEER / 9.0 hspf instead of standard air-source heat pump in homes with heat pumps | 6.0% | 17.0% | 0.23 |
| 2034 | ENERGY STAR Air Source Heat Pump (Elec Furnace / CAC to 16 SEER / 9.0 hspf) | SFD | LI | ROB | 13,763.0 | 60.6% | 8,344.0 | 0.266 | 0.65 | 12 | \$3,158.48 | Installation of 16 SEER / 9.0 hspf instead of electric furnace in homes with electric furnaces | 4.0% | 0.0% | 1.30 |
| 2035 | Furnace Whistle - electric heating and central AC | SFD | LI | Retrofit | 9,030.3 | 0.6% | 58.7 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on electric furnaces in homes with electric forced air heating | 17.0% | 10.0% | 58.36 |
| 2036 | Furnace Whistle - non-electric heating and central AC | SFD | LI | Retrofit | 2,439.0 | 0.9% | 21.0 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on non-electric furnaces in homes with non-electric forced air heating | 43.0% | 10.0% | 39.19 |
| 2037 | High Efficiency Room Air Conditioner (11 CEER to 12 CEER) | SFD | LI | ROB | 2,240.0 | 0.5% | 11.1 | 0.061 | 0.30 | 9 | \$40.00 | Installation of a high efficiency room air conditioner instead of standard room air conditioner in homes with room air conditioning and any form of electric heating other than baseboard heating | 90.3% | 31.0% | 0.36 |
| 2038 | Programmable Thermostat (electric heating and air conditioning) | SFD | LI | Retrofit | 10,341.2 | 3.3% | 336.6 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with electric heating and air conditioning | 12.7% | 53.0% | 2.39 |
| 2039 | Smart Thermostat (electric heating and air conditioning) | SFD | LI | Retrofit | 10,341.2 | 10.9% | 1,125.8 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with electric heating and air conditioning | 12.7% | 53.0% | 2.05 |
| 2040 | Programmable Thermostat (non-electric heating and air conditioning) | SFD | LI | Retrofit | 2,439.0 | 2.0% | 48.8 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with non-electric heating and air conditioning | 85.3% | 53.0% | 0.39 |
| 2041 | Smart Thermostat (non-electric heating and air conditioning) | SFD | LI | Retrofit | 2,439.0 | 14.1% | 344.0 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with non-electric heating and air conditioning | 85.3% | 53.0% | 0.71 |
| 2042 | Central AC Maintenance (10.4 SEER to 11 SEER) | SFA | NLI | Retrofit | 2,180.0 | 2.0% | 43.0 | 0.139 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of central AC units in homes with central air conditioning | 74.0% | 63.0% | 0.54 |
| 2043 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) | SFA | NLI | ROB | 1,708.0 | 11.1% | 190.0 | 0.213 | 0.65 | 14 | \$1,319.00 | Installation of 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 74.0% | 17.0% | 0.17 |
| 2044 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) | SFA | NLI | ROB | 1,708.0 | 15.9% | 272.0 | 0.299 | 0.65 | 14 | \$2,499.23 | Installation of 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 74.0% | 17.0% | 0.12 |
| 2045 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) - with proper sizing | SFA | NLI | ROB | 1,708.0 | 12.0% | 205.0 | 0.235 | 0.65 | 14 | \$1,230.23 | Installation of properly sized 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 74.0% | 17.0% | 0.19 |
| 2046 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) - with proper sizing | SFA | NLI | ROB | 1,708.0 | 16.6% | 284.0 | 0.315 | 0.65 | 14 | \$2,410.41 | Installation of properly sized 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 74.0% | 17.0% | 0.14 |
| 2047 | Air Source Heat Pump Maintenance (12.3 SEER to 13 SEER / 7.3 hspf to 7.7 hspf) | SFA | NLI | Retrofit | 5,061.0 | 8.2% | 416.0 | 0.167 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of air-source heat pump in homes with air-source heat pumps | 6.0% | 66.0% | 1.72 |
| 2048 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 15 SEER / 8.5 hspf) | SFA | NLI | ROB | 4,299.0 | 3.7% | 158.0 | 0.053 | 0.65 | 12 | \$1,004.75 | Installation of 15 SEER / 8.5 hspf instead of standard air-source heat pump in homes with heat pumps | 6.0% | 17.0% | 0.10 |
| 2049 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 16 SEER / 9.0 hspf) | SFA | NLI | ROB | 4,299.0 | 9.1% | 392.0 | 0.093 | 0.65 | 12 | \$1,269.59 | Installation of 16 SEER / 9.0 hspf instead of standard air-source heat pump in homes with heat pumps | 6.0% | 17.0% | 0.18 |
| 2050 | ENERGY STAR Air Source Heat Pump (Elec Furnace / CAC to 16 SEER / 9.0 hspf) | SFA | NLI | ROB | 9,238.0 | 57.7% | 5,331.0 | 0.200 | 0.65 | 12 | \$2,829.74 | Installation of 16 SEER / 9.0 hspf instead of electric furnace in homes with electric furnaces | 4.0% | 0.0% | 0.93 |
| 2051 | High Efficiency Furnace Fan (on existing furnace) - electric heating and central AC | SFA | ALL | Retrofit | 9,238.0 | 4.8% | 446.0 | 0.176 | 0.65 | 18 | \$360.00 | Installation of high efficiency furnace fan on existing furnace in homes with electric furnaces | 17.0% | 34.0% | 0.96 |
| 2052 | High Efficiency Furnace Fan (on existing furnace) - non-electric heating and central AC | SFA | ALL | Retrofit | 2,137.0 | 20.9% | 446.0 | 0.176 | 0.65 | 18 | \$360.00 | Installation of high efficiency furnace fan on existing furnace in homes with non-electric furnaces | 43.0% | 34.0% | 0.96 |

Measure Assumptions - PECO

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|--|-----------------|---------------|-------------------|
| 2053 | Furnace Whistle - electric heating and central AC | SFA | NLI | Retrofit | 6,315.0 | 0.9% | 58.7 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on electric furnaces in homes with electric forced air heating | 17.0% | 10.0% | 58.36 |
| 2054 | Furnace Whistle - non-electric heating and central AC | SFA | NLI | Retrofit | 2,137.0 | 1.0% | 21.0 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on non-electric furnaces in homes with non-electric forced air heating | 43.0% | 10.0% | 39.19 |
| 2055 | Ductless Mini-Split Heat Pump (16 SEER / 9.0 hspf) - replacing baseboard/room AC | SFA | ALL | ROB | 8,898.0 | 63.2% | 5,619.1 | 1.556 | 0.30 | 15 | \$2,856.64 | Installation of a 16 SEER / 9.0 hspf ductless minisplit heat pump to replace baseboard heating in homes with baseboard heating and room air conditioning | 19.3% | 0.0% | 1.26 |
| 2056 | Ductless Mini-Split Air Conditioner (16 SEER) replacing room AC | SFA | ALL | ROB | 2,040.0 | 40.4% | 825.0 | 1.556 | 0.30 | 15 | \$2,856.64 | Installation of a 16 SEER / 9.0 hspf ductless minisplit air conditioner instead of standard room air conditioner in homes with room air conditioning and any form of electric heating other than baseboard heating | 19.3% | 31.0% | 0.31 |
| 2057 | High Efficiency Room Air Conditioner (11 CEER to 12 CEER) | SFA | NLI | ROB | 2,040.0 | 0.5% | 11.1 | 0.061 | 0.30 | 9 | \$40.00 | Installation of a high efficiency room air conditioner instead of standard room air conditioner in homes with room air conditioning and any form of electric heating other than baseboard heating | 115.9% | 31.0% | 0.36 |
| 2058 | Room AC Retirement | SFA | ALL | Retrofit | 2,075.0 | 9.7% | 202.0 | 0.640 | 0.30 | 4 | \$60.00 | Retirement of supplemental room air conditioners (not primary or secondary) in homes with room air conditioners | 50.0% | 0.0% | 1.54 |
| 2059 | Programmable Thermostat (electric heating and air conditioning) | SFA | NLI | Retrofit | 7,115.7 | 3.2% | 224.6 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with electric heating and air conditioning | 12.7% | 53.0% | 1.59 |
| 2060 | Smart Thermostat (electric heating and air conditioning) | SFA | NLI | Retrofit | 7,115.7 | 11.2% | 797.7 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with electric heating and air conditioning | 12.7% | 53.0% | 1.46 |
| 2061 | Programmable Thermostat (non-electric heating and air conditioning) | SFA | NLI | Retrofit | 2,137.0 | 2.0% | 42.7 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with non-electric heating and air conditioning | 85.3% | 53.0% | 0.34 |
| 2062 | Smart Thermostat (non-electric heating and air conditioning) | SFA | NLI | Retrofit | 2,137.0 | 14.3% | 305.1 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with non-electric heating and air conditioning | 85.3% | 53.0% | 0.63 |
| 2063 | Residential Whole House Fan | SFA | ALL | Retrofit | 2,137.0 | 8.2% | 175.2 | 0.000 | 0.65 | 15 | \$533.86 | Installation of residential whole house fan in homes with air conditioning | 98.0% | 9.1% | 0.21 |
| 2064 | Central AC Maintenance (10.4 SEER to 11 SEER) | SFA | LI | Retrofit | 2,180.0 | 2.0% | 43.0 | 0.139 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of central AC units in homes with central air conditioning | 74.0% | 63.0% | 0.54 |
| 2065 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) | SFA | LI | ROB | 1,708.0 | 11.1% | 190.0 | 0.213 | 0.65 | 14 | \$1,319.00 | Installation of 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 74.0% | 17.0% | 0.17 |
| 2066 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) | SFA | LI | ROB | 1,708.0 | 15.9% | 272.0 | 0.299 | 0.65 | 14 | \$2,499.23 | Installation of 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 74.0% | 17.0% | 0.12 |
| 2067 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) - with proper sizing | SFA | LI | ROB | 1,708.0 | 12.0% | 205.0 | 0.235 | 0.65 | 14 | \$1,230.23 | Installation of properly sized 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 74.0% | 17.0% | 0.19 |
| 2068 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) - with proper sizing | SFA | LI | ROB | 1,708.0 | 16.6% | 284.0 | 0.315 | 0.65 | 14 | \$2,410.41 | Installation of properly sized 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 74.0% | 17.0% | 0.14 |
| 2069 | Air Source Heat Pump Maintenance (12.3 SEER to 13 SEER / 7.3 hspf to 7.7 hspf) | SFA | LI | ROB | 5,061.0 | 8.2% | 416.0 | 0.167 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of air-source heat pump in homes with air-source heat pumps | 6.0% | 66.0% | 1.72 |
| 2070 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 15 SEER / 8.5 hspf) | SFA | LI | ROB | 4,299.0 | 3.7% | 158.0 | 0.093 | 0.65 | 12 | \$1,004.75 | Installation of 15 SEER / 8.5 hspf instead of standard air-source heat pump in homes with heat pumps | 6.0% | 17.0% | 0.11 |
| 2071 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 16 SEER / 9.0 hspf) | SFA | LI | ROB | 4,299.0 | 9.1% | 392.0 | 0.093 | 0.65 | 12 | \$1,269.59 | Installation of 16 SEER / 9.0 hspf instead of standard air-source heat pump in homes with heat pumps | 6.0% | 17.0% | 0.18 |
| 2072 | ENERGY STAR Air Source Heat Pump (Elec Furnace / CAC to 16 SEER / 9.0 hspf) | SFA | LI | ROB | 9,238.0 | 57.7% | 5,331.0 | 0.200 | 0.65 | 12 | \$2,829.74 | Installation of 16 SEER / 9.0 hspf instead of electric furnace in homes with electric furnaces | 4.0% | 0.0% | 0.93 |
| 2073 | Furnace Whistle - electric heating and central AC | SFA | LI | Retrofit | 6,315.0 | 0.9% | 58.7 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on electric furnaces in homes with electric forced air heating | 17.0% | 10.0% | 58.36 |
| 2074 | Furnace Whistle - non-electric heating and central AC | SFA | LI | Retrofit | 2,137.0 | 1.0% | 21.0 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on non-electric furnaces in homes with non-electric forced air heating | 43.0% | 10.0% | 39.19 |
| 2075 | High Efficiency Room Air Conditioner (11 CEER to 12 CEER) | SFA | LI | ROB | 2,040.0 | 0.5% | 11.1 | 0.061 | 0.30 | 9 | \$40.00 | Installation of a high efficiency room air conditioner instead of standard room air conditioner in homes with room air conditioning and any form of electric heating other than baseboard heating | 115.9% | 31.0% | 0.36 |
| 2076 | Programmable Thermostat (electric heating and air conditioning) | SFA | LI | Retrofit | 7,115.7 | 3.2% | 224.6 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with electric heating and air conditioning | 12.7% | 53.0% | 1.59 |
| 2077 | Smart Thermostat (electric heating and air conditioning) | SFA | LI | Retrofit | 7,115.7 | 11.2% | 797.7 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with electric heating and air conditioning | 12.7% | 53.0% | 1.46 |
| 2078 | Programmable Thermostat (non-electric heating and air conditioning) | SFA | LI | Retrofit | 2,137.0 | 2.0% | 42.7 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with non-electric heating and air conditioning | 85.3% | 53.0% | 0.34 |
| 2079 | Smart Thermostat (non-electric heating and air conditioning) | SFA | LI | Retrofit | 2,137.0 | 14.3% | 305.1 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with non-electric heating and air conditioning | 85.3% | 53.0% | 0.63 |
| 2080 | Central AC Maintenance (10.4 SEER to 11 SEER) | MF | NLI | Retrofit | 2,163.0 | 3.4% | 74.0 | 0.097 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of central AC units in homes with central air conditioning | 50.0% | 63.0% | 0.53 |

Measure Assumptions - PECO

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|---|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|--|-----------------|---------------|-------------------|
| 2081 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) | MF | NLI | ROB | 1,641.0 | 12.5% | 205.0 | 0.135 | 0.65 | 14 | \$1,141.46 | Installation of 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 50.0% | 17.0% | 0.17 |
| 2082 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) | MF | NLI | ROB | 1,641.0 | 17.7% | 290.0 | 0.199 | 0.65 | 14 | \$2,321.59 | Installation of 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 50.0% | 17.0% | 0.12 |
| 2083 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) - with proper sizing | MF | NLI | ROB | 1,641.0 | 12.9% | 211.0 | 0.144 | 0.65 | 14 | \$856.10 | Installation of properly sized 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 50.0% | 17.0% | 0.23 |
| 2084 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) - with proper sizing | MF | NLI | ROB | 1,641.0 | 18.0% | 296.0 | 0.201 | 0.65 | 14 | \$1,741.19 | Installation of properly sized 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 50.0% | 17.0% | 0.16 |
| 2085 | Air Source Heat Pump Maintenance (12.3 SEER to 13 SEER / 7.3 hspf to 7.7 hspf) | MF | NLI | Retrofit | 2,459.0 | 11.9% | 293.0 | 0.113 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of air-source heat pump in homes with air-source heat pumps | 13.8% | 66.0% | 1.20 |
| 2086 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 15 SEER / 8.5 hspf) | MF | NLI | ROB | 2,031.0 | 3.4% | 70.0 | 0.035 | 0.65 | 12 | \$781.39 | Installation of 15 SEER / 8.5 hspf instead of standard air-source heat pump in homes with heat pumps | 13.8% | 17.0% | 0.06 |
| 2087 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 16 SEER / 9.0 hspf) | MF | NLI | ROB | 2,031.0 | 7.2% | 147.0 | 0.055 | 0.65 | 12 | \$1,046.23 | Installation of 16 SEER / 9.0 hspf instead of standard air-source heat pump in homes with heat pumps | 13.8% | 17.0% | 0.09 |
| 2088 | ENERGY STAR Air Source Heat Pump (Elec Furnace / CAC to 16 SEER / 9.0 hspf) | MF | NLI | ROB | 2,905.0 | 35.1% | 1,021.0 | 0.136 | 0.65 | 12 | \$2,172.26 | Installation of 16 SEER / 9.0 hspf instead of electric furnace in homes with electric furnaces | 9.3% | 0.0% | 0.25 |
| 2089 | High Efficiency Furnace Fan (on existing furnace) - electric heating and central AC | MF | ALL | Retrofit | 2,905.0 | 15.4% | 446.0 | 0.176 | 0.65 | 18 | \$360.00 | Installation of high efficiency furnace fan on existing furnace in homes with electric furnaces | 17.0% | 34.0% | 0.96 |
| 2090 | High Efficiency Furnace Fan (on existing furnace) - non-electric heating and central AC | MF | ALL | Retrofit | 2,089.0 | 21.3% | 446.0 | 0.176 | 0.65 | 18 | \$360.00 | Installation of high efficiency furnace fan on existing furnace in homes with non-electric furnaces | 43.0% | 34.0% | 0.96 |
| 2091 | Furnace Whistle - electric heating and central AC | MF | NLI | Retrofit | 2,549.7 | 2.3% | 58.7 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on electric furnaces in homes with electric forced air heating | 17.0% | 10.0% | 58.36 |
| 2092 | Furnace Whistle - non-electric heating and central AC | MF | NLI | Retrofit | 2,089.0 | 1.0% | 21.0 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on non-electric furnaces in homes with non-electric forced air heating | 43.0% | 10.0% | 39.19 |
| 2093 | Ductless Mini-Split Heat Pump (16 SEER / 9.0 hspf) - replacing baseboard/room AC | MF | ALL | ROB | 2,849.0 | 57.7% | 1,644.0 | 1.086 | 0.30 | 15 | \$1,428.32 | Installation of a 16 SEER / 9.0 hspf ductless minisplit heat pump to replace baseboard heating in homes with baseboard heating and room air conditioning | 64.1% | 0.0% | 0.84 |
| 2094 | Ductless Mini-Split Air Conditioner (16 SEER) replacing room AC | MF | ALL | ROB | 1,803.0 | 47.5% | 857.0 | 1.117 | 0.30 | 15 | \$1,428.32 | Installation of a 16 SEER / 9.0 hspf ductless minisplit air conditioner instead of standard room air conditioner in homes with room air conditioning and any form of electric heating other than baseboard heating | 64.1% | 31.0% | 0.57 |
| 2095 | High Efficiency Room Air Conditioner (11 CEER to 12 CEER) | MF | NLI | ROB | 1,803.0 | 0.6% | 11.1 | 0.061 | 0.30 | 9 | \$40.00 | Installation of a high efficiency room air conditioner instead of standard room air conditioner in homes with room air conditioning and any form of electric heating other than baseboard heating | 98.3% | 31.0% | 0.36 |
| 2096 | Room AC Retirement | MF | ALL | Retrofit | 1,837.2 | 11.0% | 202.0 | 0.640 | 0.30 | 4 | \$60.00 | Retirement of supplemental room air conditioners (not primary or secondary) in homes with room air conditioners | 50.0% | 0.0% | 1.54 |
| 2097 | Programmable Thermostat (electric heating and air conditioning) | MF | NLI | Retrofit | 2,642.5 | 2.6% | 67.9 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with electric heating and air conditioning | 29.4% | 53.0% | 0.48 |
| 2098 | Smart Thermostat (electric heating and air conditioning) | MF | NLI | Retrofit | 2,642.5 | 13.1% | 347.4 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with electric heating and air conditioning | 29.4% | 53.0% | 0.63 |
| 2099 | Programmable Thermostat (non-electric heating and air conditioning) | MF | NLI | Retrofit | 2,089.0 | 2.0% | 41.8 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with non-electric heating and air conditioning | 68.6% | 53.0% | 0.34 |
| 2100 | Smart Thermostat (non-electric heating and air conditioning) | MF | NLI | Retrofit | 2,089.0 | 14.7% | 307.0 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with non-electric heating and air conditioning | 68.6% | 53.0% | 0.63 |
| 2101 | Residential Whole House Fan | MF | ALL | Retrofit | 2,089.0 | 4.3% | 90.2 | 0.000 | 0.65 | 15 | \$533.86 | Installation of residential whole house fan in homes with air conditioning | 98.0% | 9.1% | 0.11 |
| 2102 | Central AC Maintenance (10.4 SEER to 11 SEER) | MF | LI | Retrofit | 2,163.0 | 3.4% | 74.0 | 0.097 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of central AC units in homes with central air conditioning | 50.0% | 63.0% | 0.53 |
| 2103 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) | MF | LI | ROB | 1,641.0 | 12.5% | 205.0 | 0.135 | 0.65 | 14 | \$1,141.46 | Installation of 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 50.0% | 17.0% | 0.17 |
| 2104 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) | MF | LI | ROB | 1,641.0 | 17.7% | 290.0 | 0.199 | 0.65 | 14 | \$2,321.59 | Installation of 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 50.0% | 17.0% | 0.12 |
| 2105 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) - with proper sizing | MF | LI | ROB | 1,641.0 | 12.9% | 211.0 | 0.144 | 0.65 | 14 | \$856.10 | Installation of properly sized 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 50.0% | 17.0% | 0.23 |
| 2106 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) - with proper sizing | MF | LI | ROB | 1,641.0 | 18.0% | 296.0 | 0.201 | 0.65 | 14 | \$1,741.19 | Installation of properly sized 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 50.0% | 17.0% | 0.16 |
| 2107 | Air Source Heat Pump Maintenance (12.3 SEER to 13 SEER / 7.3 hspf to 7.7 hspf) | MF | LI | ROB | 2,459.0 | 11.9% | 293.0 | 0.113 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of air-source heat pump in homes with air-source heat pumps | 13.8% | 66.0% | 1.20 |
| 2108 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 15 SEER / 8.5 hspf) | MF | LI | ROB | 2,031.0 | 3.4% | 70.0 | 0.035 | 0.65 | 12 | \$781.39 | Installation of 15 SEER / 8.5 hspf instead of standard air-source heat pump in homes with heat pumps | 13.8% | 17.0% | 0.06 |

Measure Assumptions - PECO

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|---|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|---|-----------------|---------------|-------------------|
| 2109 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 16 SEER / 9.0 hspf) | MF | LI | ROB | 2,031.0 | 7.2% | 147.0 | 0.055 | 0.65 | 12 | \$1,046.23 | Installation of 16 SEER / 9.0 hspf instead of standard air-source heat pump in homes with heat pumps | 13.8% | 17.0% | 0.09 |
| 2110 | ENERGY STAR Air Source Heat Pump (Elec Furnace / CAC to 16 SEER / 9.0 hspf) | MF | LI | ROB | 2,905.0 | 35.1% | 1,021.0 | 0.136 | 0.65 | 12 | \$2,172.26 | Installation of 16 SEER / 9.0 hspf instead of electric furnace in homes with electric furnaces | 9.3% | 0.0% | 0.25 |
| 2111 | Furnace Whistle - electric heating and central AC | MF | LI | Retrofit | 2,549.7 | 2.3% | 58.7 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on electric furnaces in homes with electric forced air heating | 17.0% | 10.0% | 58.36 |
| 2112 | Furnace Whistle - non-electric heating and central AC | MF | LI | Retrofit | 2,089.0 | 1.0% | 21.0 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on non-electric furnaces in homes with non-electric forced air heating | 43.0% | 10.0% | 39.19 |
| 2113 | High Efficiency Room Air Conditioner (11 CEER to 12 CEER) | MF | LI | ROB | 1,803.0 | 0.6% | 11.1 | 0.061 | 0.30 | 9 | \$40.00 | Installation of a high efficiency room air conditioner instead of standard room air conditioner in homes with room air conditioning and any form of electric heating other than baseboard heating | 98.3% | 31.0% | 0.36 |
| 2114 | Programmable Thermostat (electric heating and air conditioning) | MF | LI | Retrofit | 2,642.5 | 2.6% | 67.9 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with electric heating and air conditioning | 29.4% | 53.0% | 0.48 |
| 2115 | Smart Thermostat (electric heating and air conditioning) | MF | LI | Retrofit | 2,642.5 | 13.1% | 347.4 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with electric heating and air conditioning | 29.4% | 53.0% | 0.63 |
| 2116 | Programmable Thermostat (non-electric heating and air conditioning) | MF | LI | Retrofit | 2,089.0 | 2.0% | 41.8 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with non-electric heating and air conditioning | 68.6% | 53.0% | 0.34 |
| 2117 | Smart Thermostat (non-electric heating and air conditioning) | MF | LI | Retrofit | 2,089.0 | 14.7% | 307.0 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with non-electric heating and air conditioning | 68.6% | 53.0% | 0.63 |
| 3000 | Domestic Hot Water | | | | | | | | | | | | | | |
| 3001 | Water Heater Temperature Setback | SFD | NLI | Retrofit | 1,966.9 | 7.7% | 151.3 | 0.012 | 1.00 | 4 | \$5.00 | Lowering water heater setpoint from 130 to 120 degrees | 36.0% | 81.6% | 6.03 |
| 3002 | Water Heater Pipe Insulation | SFD | NLI | Retrofit | 3,338.0 | 3.0% | 100.0 | 0.008 | 1.00 | 13 | \$30.00 | Installation of foam insulation on 10 feet of exposed pipe in unconditioned 3/4" thick. | 36.0% | 13.0% | 1.91 |
| 3003 | Low Flow Faucet Aerators - Bathroom | SFD | NLI | Retrofit | 71.2 | 31.9% | 22.7 | 0.003 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in bathroom to replace standard flow aerator | 112.1% | 58.0% | 8.09 |
| 3004 | Low Flow Faucet Aerators - Kitchen | SFD | NLI | Retrofit | 613.3 | 31.9% | 195.9 | 0.026 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in kitchen to replace standard flow aerator | 36.0% | 58.0% | 69.75 |
| 3005 | Low Flow Showerheads | SFD | NLI | Retrofit | 903.2 | 40.0% | 361.3 | 0.029 | 1.00 | 9 | \$6.00 | Installation of low flow showerhead in to replace standard flow showerhead | 62.4% | 60.0% | 25.58 |
| 3006 | Thermostatic Shower Restriction Valve | SFD | ALL | Retrofit | 106.1 | 100.0% | 106.1 | 0.009 | 1.00 | 10 | \$30.00 | Installation of thermostatic restriction valve to reduce hot water usage during shower warm-up in homes with electric water heating | 62.4% | 1.0% | 1.64 |
| 3007 | Drain Water Heat Recovery Device | SFD | NLI | Retrofit | 556.5 | 45.4% | 252.7 | 0.041 | 0.70 | 20 | \$1,022.00 | Installation of a drain water heat recovery device to recapture heated wastewater in homes with electric water heating | 36.0% | 1.0% | 0.16 |
| 3008 | Water Heater Tank Wrap | SFD | NLI | Retrofit | 389.1 | 54.9% | 213.6 | 0.024 | 1.00 | 7 | \$50.00 | Installation of insulated tank wrap to existing residential electric hot water heaters | 36.0% | 9.0% | 1.51 |
| 3009 | Heat Pump Water Heaters (50 - 75 gallon) | SFD | NLI | ROB | 3,005.7 | 45.7% | 1,373.3 | 0.111 | 1.00 | 14 | \$945.00 | Installation of 50-75 gallon heat pump water heater instead of standard storage electric storage water heater | 30.6% | 0.0% | 0.63 |
| 3010 | Solar Water Heaters | SFD | NLI | ROB | 3,005.7 | 48.6% | 1,462.0 | 0.118 | 1.00 | 15 | \$5,384.00 | Installation of solar water heater instead of standard storage electric storage water heater | 30.6% | 0.0% | 0.17 |
| 3011 | Heat Pump Water Heaters (75+ gallon) | SFD | NLI | ROB | 1,449.6 | 2.1% | 30.1 | 0.002 | 1.00 | 14 | \$1,369.00 | Installation of 75+ gallon heat pump water heater instead of standard storage electric storage water heater | 5.4% | 0.0% | 0.01 |
| 3012 | Water Heater Temperature Setback | SFD | LI | Retrofit | 1,966.9 | 7.7% | 151.3 | 0.012 | 1.00 | 4 | \$5.00 | Lowering water heater setpoint from 130 to 120 degrees | 36.0% | 81.6% | 6.03 |
| 3013 | Water Heater Pipe Insulation | SFD | LI | Retrofit | 3,338.0 | 3.0% | 100.0 | 0.008 | 1.00 | 13 | \$30.00 | Installation of foam insulation on 10 feet of exposed pipe in unconditioned 3/4" thick. | 36.0% | 13.0% | 1.91 |
| 3014 | Low Flow Faucet Aerators - Bathroom | SFD | LI | Retrofit | 71.2 | 31.9% | 22.7 | 0.003 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in bathroom to replace standard flow aerator | 112.1% | 58.0% | 8.09 |
| 3015 | Low Flow Faucet Aerators - Kitchen | SFD | LI | Retrofit | 613.3 | 31.9% | 195.9 | 0.026 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in kitchen to replace standard flow aerator | 36.0% | 58.0% | 69.75 |
| 3016 | Low Flow Showerheads | SFD | LI | Retrofit | 903.2 | 40.0% | 361.3 | 0.029 | 1.00 | 9 | \$6.00 | Installation of low flow showerhead in to replace standard flow showerhead | 62.4% | 60.0% | 25.58 |
| 3017 | Drain Water Heat Recovery Device | SFD | LI | Retrofit | 556.5 | 45.4% | 252.7 | 0.041 | 0.70 | 20 | \$1,022.00 | Installation of a drain water heat recovery device to recapture heated wastewater in homes with electric water heating | 36.0% | 1.0% | 0.16 |
| 3018 | Water Heater Tank Wrap | SFD | LI | Retrofit | 389.1 | 54.9% | 213.6 | 0.024 | 1.00 | 7 | \$50.00 | Installation of insulated tank wrap to existing residential electric hot water heaters | 36.0% | 9.0% | 1.51 |
| 3019 | Heat Pump Water Heaters (50 - 75 gallon) | SFD | LI | ROB | 3,005.7 | 45.7% | 1,373.3 | 0.111 | 1.00 | 14 | \$945.00 | Installation of 50-75 gallon heat pump water heater instead of standard storage electric storage water heater | 30.6% | 0.0% | 0.63 |
| 3020 | Solar Water Heaters | SFD | LI | ROB | 3,005.7 | 48.6% | 1,462.0 | 0.118 | 1.00 | 15 | \$5,384.00 | Installation of solar water heater instead of standard storage electric storage water heater | 30.6% | 0.0% | 0.17 |
| 3021 | Heat Pump Water Heaters (75+ gallon) | SFD | LI | ROB | 1,449.6 | 2.1% | 30.1 | 0.002 | 1.00 | 14 | \$1,369.00 | Installation of 75+ gallon heat pump water heater instead of standard storage electric storage water heater | 5.4% | 0.0% | 0.01 |
| 3022 | Water Heater Temperature Setback | SFD | ALL | NC | 1,966.9 | 7.7% | 151.3 | 0.012 | 1.00 | 4 | \$5.00 | Lowering water heater setpoint from 130 to 120 degrees | 36.0% | 0.0% | 6.03 |
| 3023 | Water Heater Pipe Insulation | SFD | ALL | NC | 3,338.0 | 3.0% | 100.0 | 0.008 | 1.00 | 13 | \$30.00 | Installation of foam insulation on 10 feet of exposed pipe in unconditioned 3/4" thick. | 36.0% | 0.0% | 1.91 |
| 3024 | Low Flow Faucet Aerators - Bathroom | SFD | ALL | NC | 71.2 | 31.9% | 22.7 | 0.003 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in bathroom to replace standard flow aerator | 112.1% | 0.0% | 8.09 |

Measure Assumptions - PECO

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|---|-----------------|---------------|-------------------|
| 3025 | Low Flow Faucet Aerators - Kitchen | SFD | ALL | NC | 613.3 | 31.9% | 195.9 | 0.026 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in kitchen to replace standard flow aerator | 36.0% | 0.0% | 69.75 |
| 3026 | Low Flow Showerheads | SFD | ALL | NC | 903.2 | 40.0% | 361.3 | 0.029 | 1.00 | 9 | \$6.00 | Installation of low flow showerhead in to replace standard flow showerhead | 62.4% | 0.0% | 25.58 |
| 3027 | Thermostatic Shower Restriction Valve | SFD | ALL | NC | 106.1 | 100.0% | 106.1 | 0.009 | 1.00 | 10 | \$30.00 | Installation of thermostatic restriction valve to reduce hot water usage during shower warm-up in homes with electric water heating | 62.4% | 0.0% | 1.64 |
| 3028 | Drain Water Heat Recovery Device | SFD | ALL | NC | 556.5 | 45.4% | 252.7 | 0.041 | 0.70 | 20 | \$1,022.00 | Installation of a drain water heat recovery device to recapture heated wastewater in homes with electric water heating | 36.0% | 0.0% | 0.16 |
| 3029 | Water Heater Tank Wrap | SFD | ALL | NC | 389.1 | 54.9% | 213.6 | 0.024 | 1.00 | 7 | \$50.00 | Installation of insulated tank wrap to existing residential electric hot water heaters | 36.0% | 0.0% | 1.51 |
| 3030 | Heat Pump Water Heaters (50 - 75 gallon) | SFD | ALL | NC | 3,005.7 | 45.7% | 1,373.3 | 0.111 | 1.00 | 14 | \$945.00 | Installation of 50-75 gallon heat pump water heater instead of standard storage electric storage water heater | 30.6% | 0.0% | 0.63 |
| 3031 | Solar Water Heaters | SFD | ALL | NC | 3,005.7 | 48.6% | 1,462.0 | 0.118 | 1.00 | 15 | \$5,384.00 | Installation of solar water heater instead of standard storage electric storage water heater | 30.6% | 0.0% | 0.17 |
| 3032 | Heat Pump Water Heaters (75+ gallon) | SFD | ALL | NC | 1,449.6 | 2.1% | 30.1 | 0.002 | 1.00 | 14 | \$1,369.00 | Installation of 75+ gallon heat pump water heater instead of standard storage electric storage water heater | 5.4% | 0.0% | 0.01 |
| 3033 | Water Heater Temperature Setback | SFA | NLI | Retrofit | 1,966.9 | 7.7% | 151.3 | 0.012 | 1.00 | 4 | \$5.00 | Lowering water heater setpoint from 130 to 120 degrees | 36.0% | 81.6% | 6.03 |
| 3034 | Water Heater Pipe Insulation | SFA | NLI | Retrofit | 3,338.0 | 3.0% | 100.0 | 0.008 | 1.00 | 13 | \$30.00 | Installation of foam insulation on 10 feet of exposed pipe in unconditioned 3/4" thick | 36.0% | 13.0% | 1.91 |
| 3035 | Low Flow Faucet Aerators - Bathroom | SFA | NLI | Retrofit | 71.2 | 31.9% | 22.7 | 0.003 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in bathroom to replace standard flow aerator | 103.9% | 58.0% | 8.09 |
| 3036 | Low Flow Faucet Aerators - Kitchen | SFA | NLI | Retrofit | 613.3 | 31.9% | 195.9 | 0.026 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in kitchen to replace standard flow aerator | 36.0% | 58.0% | 69.75 |
| 3037 | Low Flow Showerheads | SFA | NLI | Retrofit | 903.2 | 40.0% | 361.3 | 0.029 | 1.00 | 9 | \$6.00 | Installation of low flow showerhead in to replace standard flow showerhead | 57.6% | 60.0% | 25.58 |
| 3038 | Thermostatic Shower Restriction Valve | SFA | ALL | Retrofit | 106.1 | 100.0% | 106.1 | 0.009 | 1.00 | 10 | \$30.00 | Installation of thermostatic restriction valve to reduce hot water usage during shower warm-up in homes with electric water heating | 57.6% | 1.0% | 1.64 |
| 3039 | Drain Water Heat Recovery Device | SFA | NLI | Retrofit | 556.5 | 45.4% | 252.7 | 0.041 | 0.70 | 20 | \$1,022.00 | Installation of a drain water heat recovery device to recapture heated wastewater in homes with electric water heating | 36.0% | 1.0% | 0.16 |
| 3040 | Water Heater Tank Wrap | SFA | NLI | Retrofit | 389.1 | 54.9% | 213.6 | 0.024 | 1.00 | 7 | \$50.00 | Installation of insulated tank wrap to existing residential electric hot water heaters | 36.0% | 9.0% | 1.51 |
| 3041 | Heat Pump Water Heaters (50 - 75 gallon) | SFA | NLI | ROB | 3,005.7 | 45.7% | 1,373.3 | 0.111 | 1.00 | 14 | \$945.00 | Installation of 50-75 gallon heat pump water heater instead of standard storage electric storage water heater | 30.6% | 0.0% | 0.63 |
| 3042 | Solar Water Heaters | SFA | NLI | ROB | 3,005.7 | 48.6% | 1,462.0 | 0.118 | 1.00 | 15 | \$5,384.00 | Installation of solar water heater instead of standard storage electric storage water heater | 30.6% | 0.0% | 0.17 |
| 3043 | Heat Pump Water Heaters (75+ gallon) | SFA | NLI | ROB | 1,449.6 | 2.1% | 30.1 | 0.002 | 1.00 | 14 | \$1,369.00 | Installation of 75+ gallon heat pump water heater instead of standard storage electric storage water heater | 5.4% | 0.0% | 0.01 |
| 3044 | Water Heater Temperature Setback | SFA | LI | Retrofit | 1,966.9 | 7.7% | 151.3 | 0.012 | 1.00 | 4 | \$5.00 | Lowering water heater setpoint from 130 to 120 degrees | 36.0% | 81.6% | 6.03 |
| 3045 | Water Heater Pipe Insulation | SFA | LI | Retrofit | 3,338.0 | 3.0% | 100.0 | 0.008 | 1.00 | 13 | \$30.00 | Installation of foam insulation on 10 feet of exposed pipe in unconditioned 3/4" thick | 36.0% | 13.0% | 1.91 |
| 3046 | Low Flow Faucet Aerators - Bathroom | SFA | LI | Retrofit | 71.2 | 31.9% | 22.7 | 0.003 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in bathroom to replace standard flow aerator | 103.9% | 58.0% | 8.09 |
| 3047 | Low Flow Faucet Aerators - Kitchen | SFA | LI | Retrofit | 613.3 | 31.9% | 195.9 | 0.026 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in kitchen to replace standard flow aerator | 36.0% | 58.0% | 69.75 |
| 3048 | Low Flow Showerheads | SFA | LI | Retrofit | 903.2 | 40.0% | 361.3 | 0.029 | 1.00 | 9 | \$6.00 | Installation of low flow showerhead in to replace standard flow showerhead | 57.6% | 60.0% | 25.58 |
| 3049 | Drain Water Heat Recovery Device | SFA | LI | Retrofit | 556.5 | 45.4% | 252.7 | 0.041 | 0.70 | 20 | \$1,022.00 | Installation of a drain water heat recovery device to recapture heated wastewater in homes with electric water heating | 36.0% | 1.0% | 0.16 |
| 3050 | Water Heater Tank Wrap | SFA | LI | Retrofit | 389.1 | 54.9% | 213.6 | 0.024 | 1.00 | 7 | \$50.00 | Installation of insulated tank wrap to existing residential electric hot water heaters | 36.0% | 9.0% | 1.51 |
| 3051 | Heat Pump Water Heaters (50 - 75 gallon) | SFA | LI | ROB | 3,005.7 | 45.7% | 1,373.3 | 0.111 | 1.00 | 14 | \$945.00 | Installation of 50-75 gallon heat pump water heater instead of standard storage electric storage water heater | 30.6% | 0.0% | 0.63 |
| 3052 | Solar Water Heaters | SFA | LI | ROB | 3,005.7 | 48.6% | 1,462.0 | 0.118 | 1.00 | 15 | \$5,384.00 | Installation of solar water heater instead of standard storage electric storage water heater | 30.6% | 0.0% | 0.17 |
| 3053 | Heat Pump Water Heaters (75+ gallon) | SFA | LI | ROB | 1,449.6 | 2.1% | 30.1 | 0.002 | 1.00 | 14 | \$1,369.00 | Installation of 75+ gallon heat pump water heater instead of standard storage electric storage water heater | 5.4% | 0.0% | 0.01 |
| 3054 | Water Heater Temperature Setback | SFA | ALL | NC | 1,966.9 | 7.7% | 151.3 | 0.012 | 1.00 | 4 | \$5.00 | Lowering water heater setpoint from 130 to 120 degrees | 36.0% | 0.0% | 6.03 |
| 3055 | Water Heater Pipe Insulation | SFA | ALL | NC | 3,338.0 | 3.0% | 100.0 | 0.008 | 1.00 | 13 | \$30.00 | Installation of foam insulation on 10 feet of exposed pipe in unconditioned 3/4" thick | 36.0% | 0.0% | 1.91 |
| 3056 | Low Flow Faucet Aerators - Bathroom | SFA | ALL | NC | 71.2 | 31.9% | 22.7 | 0.003 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in bathroom to replace standard flow aerator | 103.9% | 0.0% | 8.09 |
| 3057 | Low Flow Faucet Aerators - Kitchen | SFA | ALL | NC | 613.3 | 31.9% | 195.9 | 0.026 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in kitchen to replace standard flow aerator | 36.0% | 0.0% | 69.75 |
| 3058 | Low Flow Showerheads | SFA | ALL | NC | 903.2 | 40.0% | 361.3 | 0.029 | 1.00 | 9 | \$6.00 | Installation of low flow showerhead in to replace standard flow showerhead | 57.6% | 0.0% | 25.58 |

Measure Assumptions - PECO

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|---|-----------------|---------------|-------------------|
| 3059 | Thermostatic Shower Restriction Valve | SFA | ALL | NC | 106.1 | 100.0% | 106.1 | 0.009 | 1.00 | 10 | \$30.00 | Installation of thermostatic restriction valve to reduce hot water usage during shower warm-up in homes with electric water heating | 57.6% | 0.0% | 1.64 |
| 3060 | Drain Water Heat Recovery Device | SFA | ALL | NC | 556.5 | 45.4% | 252.7 | 0.041 | 0.70 | 20 | \$1,022.00 | Installation of a drain water heat recovery device to recapture heated wastewater in homes with electric water heating | 36.0% | 0.0% | 0.16 |
| 3061 | Water Heater Tank Wrap | SFA | ALL | NC | 389.1 | 54.9% | 213.6 | 0.024 | 1.00 | 7 | \$50.00 | Installation of insulated tank wrap to existing residential electric hot water heaters | 36.0% | 0.0% | 1.51 |
| 3062 | Heat Pump Water Heaters (50 - 75 gallon) | SFA | ALL | NC | 3,005.7 | 45.7% | 1,373.3 | 0.111 | 1.00 | 14 | \$945.00 | Installation of 50-75 gallon heat pump water heater instead of standard storage electric storage water heater | 30.6% | 0.0% | 0.63 |
| 3063 | Solar Water Heaters | SFA | ALL | NC | 3,005.7 | 48.6% | 1,462.0 | 0.118 | 1.00 | 15 | \$5,384.00 | Installation of solar water heater instead of standard storage electric storage water heater | 30.6% | 0.0% | 0.17 |
| 3064 | Heat Pump Water Heaters (75+ gallon) | SFA | ALL | NC | 1,449.6 | 2.1% | 30.1 | 0.002 | 1.00 | 14 | \$1,369.00 | Installation of 75+ gallon heat pump water heater instead of standard storage electric storage water heater | 5.4% | 0.0% | 0.01 |
| 3065 | Water Heater Temperature Setback | MF | NLI | Retrofit | 1,966.9 | 7.7% | 151.3 | 0.012 | 1.00 | 4 | \$5.00 | Lowering water heater setpoint from 130 to 120 degrees | 20.0% | 81.6% | 6.03 |
| 3066 | Water Heater Pipe Insulation | MF | NLI | Retrofit | 3,338.0 | 3.0% | 100.0 | 0.008 | 1.00 | 13 | \$30.00 | Installation of foam insulation on 10 feet of exposed pipe in unconditioned 3/4" thick. | 20.0% | 13.0% | 1.91 |
| 3067 | Low Flow Faucet Aerators - Bathroom | MF | NLI | Retrofit | 120.7 | 31.9% | 38.5 | 0.005 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in bathroom to replace standard flow aerator | 29.4% | 58.0% | 13.73 |
| 3068 | Low Flow Faucet Aerators - Kitchen | MF | NLI | Retrofit | 485.6 | 31.9% | 155.1 | 0.021 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in kitchen to replace standard flow aerator | 20.0% | 58.0% | 55.22 |
| 3069 | Low Flow Showerheads | MF | NLI | Retrofit | 845.0 | 40.0% | 338.0 | 0.027 | 1.00 | 9 | \$6.00 | Installation of low flow showerhead in to replace standard flow showerhead | 29.3% | 60.0% | 23.93 |
| 3070 | Thermostatic Shower Restriction Valve | MF | ALL | Retrofit | 99.3 | 100.0% | 99.3 | 0.008 | 1.00 | 10 | \$30.00 | Installation of thermostatic restriction valve to reduce hot water usage during shower warm-up in homes with electric water heating | 29.3% | 1.0% | 1.54 |
| 3071 | Drain Water Heat Recovery Device | MF | NLI | Retrofit | 371.0 | 45.4% | 168.4 | 0.027 | 0.70 | 20 | \$1,022.00 | Installation of a drain water heat recovery device to recapture heated wastewater in homes with electric water heating | 20.0% | 1.0% | 0.11 |
| 3072 | Water Heater Tank Wrap | MF | NLI | Retrofit | 389.1 | 54.9% | 213.6 | 0.024 | 1.00 | 7 | \$50.00 | Installation of insulated tank wrap to existing residential electric hot water heaters | 20.0% | 9.0% | 1.51 |
| 3073 | Heat Pump Water Heaters (50 - 75 gallon) | MF | NLI | ROB | 3,005.7 | 45.7% | 1,373.3 | 0.111 | 1.00 | 14 | \$945.00 | Installation of 50-75 gallon heat pump water heater instead of standard storage electric storage water heater | 17.0% | 0.0% | 0.63 |
| 3074 | Solar Water Heaters | MF | NLI | ROB | 3,005.7 | 48.6% | 1,462.0 | 0.118 | 1.00 | 15 | \$5,384.00 | Installation of solar water heater instead of standard storage electric storage water heater | 17.0% | 0.0% | 0.17 |
| 3075 | Heat Pump Water Heaters (75+ gallon) | MF | NLI | ROB | 1,449.6 | 2.1% | 30.1 | 0.002 | 1.00 | 14 | \$1,369.00 | Installation of 75+ gallon heat pump water heater instead of standard storage electric storage water heater | 3.0% | 0.0% | 0.01 |
| 3076 | Water Heater Temperature Setback | MF | LI | Retrofit | 1,966.9 | 7.7% | 151.3 | 0.012 | 1.00 | 4 | \$5.00 | Lowering water heater setpoint from 130 to 120 degrees | 20.0% | 81.6% | 6.03 |
| 3077 | Water Heater Pipe Insulation | MF | LI | Retrofit | 3,338.0 | 3.0% | 100.0 | 0.008 | 1.00 | 13 | \$30.00 | Installation of foam insulation on 10 feet of exposed pipe in unconditioned 3/4" thick. | 20.0% | 13.0% | 1.91 |
| 3078 | Low Flow Faucet Aerators - Bathroom | MF | LI | Retrofit | 120.7 | 31.9% | 38.5 | 0.005 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in bathroom to replace standard flow aerator | 29.4% | 58.0% | 13.73 |
| 3079 | Low Flow Faucet Aerators - Kitchen | MF | LI | Retrofit | 485.6 | 31.9% | 155.1 | 0.021 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in kitchen to replace standard flow aerator | 20.0% | 58.0% | 55.22 |
| 3080 | Low Flow Showerheads | MF | LI | Retrofit | 845.0 | 40.0% | 338.0 | 0.027 | 1.00 | 9 | \$6.00 | Installation of low flow showerhead in to replace standard flow showerhead | 29.3% | 60.0% | 23.93 |
| 3081 | Drain Water Heat Recovery Device | MF | LI | Retrofit | 371.0 | 45.4% | 168.4 | 0.027 | 0.70 | 20 | \$1,022.00 | Installation of a drain water heat recovery device to recapture heated wastewater in homes with electric water heating | 20.0% | 1.0% | 0.11 |
| 3082 | Water Heater Tank Wrap | MF | LI | Retrofit | 389.1 | 54.9% | 213.6 | 0.024 | 1.00 | 7 | \$50.00 | Installation of insulated tank wrap to existing residential electric hot water heaters | 20.0% | 9.0% | 1.51 |
| 3083 | Heat Pump Water Heaters (50 - 75 gallon) | MF | LI | ROB | 3,005.7 | 45.7% | 1,373.3 | 0.111 | 1.00 | 14 | \$945.00 | Installation of 50-75 gallon heat pump water heater instead of standard storage electric storage water heater | 17.0% | 0.0% | 0.63 |
| 3084 | Solar Water Heaters | MF | LI | ROB | 3,005.7 | 48.6% | 1,462.0 | 0.118 | 1.00 | 15 | \$5,384.00 | Installation of solar water heater instead of standard storage electric storage water heater | 17.0% | 0.0% | 0.17 |
| 3085 | Heat Pump Water Heaters (75+ gallon) | MF | LI | ROB | 1,449.6 | 2.1% | 30.1 | 0.002 | 1.00 | 14 | \$1,369.00 | Installation of 75+ gallon heat pump water heater instead of standard storage electric storage water heater | 3.0% | 0.0% | 0.01 |
| 3086 | Water Heater Temperature Setback | MF | ALL | NC | 1,966.9 | 7.7% | 151.3 | 0.012 | 1.00 | 4 | \$5.00 | Lowering water heater setpoint from 130 to 120 degrees | 20.0% | 0.0% | 6.03 |
| 3087 | Water Heater Pipe Insulation | MF | ALL | NC | 3,338.0 | 3.0% | 100.0 | 0.008 | 1.00 | 13 | \$30.00 | Installation of foam insulation on 10 feet of exposed pipe in unconditioned 3/4" thick. | 20.0% | 0.0% | 1.91 |
| 3088 | Low Flow Faucet Aerators - Bathroom | MF | ALL | NC | 120.7 | 31.9% | 38.5 | 0.005 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in bathroom to replace standard flow aerator | 29.4% | 0.0% | 13.73 |
| 3089 | Low Flow Faucet Aerators - Kitchen | MF | ALL | NC | 485.6 | 31.9% | 155.1 | 0.021 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in kitchen to replace standard flow aerator | 20.0% | 0.0% | 55.22 |
| 3090 | Low Flow Showerheads | MF | ALL | NC | 845.0 | 40.0% | 338.0 | 0.027 | 1.00 | 9 | \$6.00 | Installation of low flow showerhead in to replace standard flow showerhead | 29.3% | 0.0% | 23.93 |
| 3091 | Thermostatic Shower Restriction Valve | MF | ALL | NC | 99.3 | 100.0% | 99.3 | 0.008 | 1.00 | 10 | \$30.00 | Installation of thermostatic restriction valve to reduce hot water usage during shower warm-up in homes with electric water heating | 29.3% | 0.0% | 1.54 |

Measure Assumptions - PECO

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|--|-----------------|---------------|-------------------|
| 3092 | Drain Water Heat Recovery Device | MF | ALL | NC | 371.0 | 45.4% | 168.4 | 0.027 | 0.70 | 20 | \$1,022.00 | Installation of a drain water heat recovery device to recapture heated wastewater in homes with electric water heating | 20.0% | 0.0% | 0.11 |
| 3093 | Water Heater Tank Wrap | MF | ALL | NC | 389.1 | 54.9% | 213.6 | 0.024 | 1.00 | 7 | \$50.00 | Installation of insulated tank wrap to existing residential electric hot water heaters | 20.0% | 0.0% | 1.51 |
| 3094 | Heat Pump Water Heaters (50 - 75 gallon) | MF | ALL | NC | 3,005.7 | 45.7% | 1,373.3 | 0.111 | 1.00 | 14 | \$945.00 | Installation of 50-75 gallon heat pump water heater instead of standard storage electric storage water heater | 17.0% | 0.0% | 0.63 |
| 3095 | Solar Water Heaters | MF | ALL | NC | 3,005.7 | 48.6% | 1,462.0 | 0.118 | 1.00 | 15 | \$5,384.00 | Installation of solar water heater instead of standard storage electric storage water heater | 17.0% | 0.0% | 0.17 |
| 3096 | Heat Pump Water Heaters (75+ gallon) | MF | ALL | NC | 1,449.6 | 2.1% | 30.1 | 0.002 | 1.00 | 14 | \$1,369.00 | Installation of 75+ gallon heat pump water heater instead of standard storage electric storage water heater | 3.0% | 0.0% | 0.01 |
| 4000 | Appliances | | | | | | | | | | | | | | |
| 4001 | Refrigerator Recycling with Replacement | SFD | NLI | Retrofit | 1,015.4 | 42.6% | 432.1 | 0.048 | 1.00 | 7 | \$120.00 | Retirement and replacement of non-primary refrigerators in homes with more than one refrigerator; replacement unit assumed to be standard efficiency model | 43.0% | 0.0% | 1.24 |
| 4002 | Refrigerator Recycling without Replacement | SFD | NLI | Retrofit | 1,015.4 | 100.0% | 1,015.4 | 0.114 | 1.00 | 8 | \$120.00 | Retirement (no replacement) of non-primary refrigerators in homes with more than one refrigerator | 43.0% | 0.0% | 3.29 |
| 4003 | Freezer Recycling with Replacement | SFD | ALL | Retrofit | 968.9 | 46.4% | 449.8 | 0.050 | 1.00 | 7 | \$120.00 | Retirement and replacement of non-primary freezers in homes with more than one freezer; replacement unit assumed to be standard efficiency model | 0.0% | 0.0% | 1.29 |
| 4004 | Freezer Recycling without Replacement | SFD | ALL | Retrofit | 968.9 | 100.0% | 968.9 | 0.108 | 1.00 | 8 | \$120.00 | Retirement (no replacement) of non-primary refrigerators in homes with more than one refrigerator | 0.0% | 0.0% | 3.14 |
| 4005 | ENERGY STAR Refrigerators (Top-Mount) | SFD | NLI | ROB | 462.2 | 8.2% | 37.9 | 0.004 | 1.00 | 12 | \$21.83 | Installation of ENERGY STAR top-mount refrigerator instead of standard efficiency unit | 52.0% | 32.0% | 0.95 |
| 4006 | ENERGY STAR Refrigerators (Side-by-Side) | SFD | NLI | ROB | 608.9 | 8.6% | 52.5 | 0.006 | 1.00 | 12 | \$57.31 | Installation of ENERGY STAR side-mount refrigerator instead of standard efficiency unit | 20.0% | 32.0% | 0.50 |
| 4007 | ENERGY STAR Refrigerators (Bottom-Mount) | SFD | NLI | ROB | 644.2 | 8.7% | 55.9 | 0.006 | 1.00 | 12 | \$17.29 | Installation of ENERGY STAR bottom-mount refrigerator instead of standard efficiency unit | 13.0% | 32.0% | 1.76 |
| 4008 | ENERGY STAR Freezers (Upright) | SFD | NLI | ROB | 483.2 | 9.1% | 44.0 | 0.005 | 1.00 | 12 | \$6.75 | Installation of ENERGY STAR upright freezers instead of standard efficiency unit | 11.3% | 21.0% | 3.56 |
| 4009 | ENERGY STAR Freezers (Chest) | SFD | NLI | ROB | 290.1 | 10.0% | 29.0 | 0.003 | 1.00 | 12 | \$5.23 | Installation of ENERGY STAR chest freezers instead of standard efficiency unit | 17.7% | 21.0% | 3.03 |
| 4010 | ENERGY STAR Clothes Washers (Electric Water Heating) | SFD | NLI | ROB | 497.4 | 34.3% | 170.6 | 0.682 | 0.029 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 32.8% | 18.0% | 1.91 |
| 4011 | ENERGY STAR Clothes Washers (Gas Water Heating) | SFD | NLI | ROB | 161.2 | 19.8% | 31.8 | 0.127 | 0.029 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with gas water heating | 58.2% | 18.0% | 0.36 |
| 4012 | ENERGY STAR Dishwashers (Electric Water Heating) | SFD | ALL | ROB | 307.0 | 12.1% | 37.0 | 0.158 | 0.026 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with electric water heating | 26.2% | 45.0% | 1.81 |
| 4013 | ENERGY STAR Dishwashers (Gas Water Heating) | SFD | ALL | ROB | 135.1 | 12.1% | 16.3 | 0.070 | 0.026 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with gas water heating | 34.8% | 45.0% | 0.79 |
| 4014 | ENERGY STAR Dehumidifiers | SFD | NLI | ROB | 792.4 | 18.9% | 149.9 | 0.092 | 0.41 | 12 | \$20.21 | Installation of ENERGY STAR dehumidifier instead of standard efficiency unit | 27.0% | 83.9% | 4.70 |
| 4015 | ENERGY STAR Water Coolers | SFD | ALL | ROB | 799.4 | 60.3% | 481.8 | 0.055 | 1.00 | 10 | \$50.00 | Installation of ENERGY STAR water cooler instead of standard efficiency unit | 1.2% | 68.5% | 4.68 |
| 4016 | ENERGY STAR Air Purifier/Cleaner | SFD | ALL | ROB | 587.0 | 66.6% | 391.0 | 0.067 | 1.00 | 9 | \$70.00 | Installation of ENERGY STAR air purifier instead of standard efficiency unit | 7.0% | 33.3% | 2.66 |
| 4017 | ENERGY STAR Dryers | SFD | ALL | ROB | 538.0 | 5.1% | 27.4 | 0.115 | 0.04 | 13 | \$50.00 | Installation of ENERGY STAR dryer instead of standard efficiency unit in homes with electric dryers | 60.1% | 25.0% | 0.35 |
| 4018 | Refrigerator Recycling with Replacement | SFD | LI | Retrofit | 1,015.4 | 42.6% | 432.1 | 0.048 | 1.00 | 7 | \$120.00 | Retirement and replacement of non-primary refrigerators in homes with more than one refrigerator; replacement unit assumed to be standard efficiency model | 43.0% | 0.0% | 1.24 |
| 4019 | Refrigerator Recycling without Replacement | SFD | LI | Retrofit | 1,015.4 | 100.0% | 1,015.4 | 0.114 | 1.00 | 8 | \$120.00 | Retirement (no replacement) of non-primary refrigerators in homes with more than one refrigerator | 43.0% | 0.0% | 3.29 |
| 4020 | ENERGY STAR Refrigerators (Top-Mount) | SFD | LI | ROB | 462.2 | 8.2% | 37.9 | 0.004 | 1.00 | 12 | \$21.83 | Installation of ENERGY STAR top-mount refrigerator instead of standard efficiency unit | 52.0% | 32.0% | 0.95 |
| 4021 | ENERGY STAR Refrigerators (Side-by-Side) | SFD | LI | ROB | 608.9 | 8.6% | 52.5 | 0.006 | 1.00 | 12 | \$57.31 | Installation of ENERGY STAR side-mount refrigerator instead of standard efficiency unit | 20.0% | 32.0% | 0.50 |

Measure Assumptions - PECO

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|--|-----------------|---------------|-------------------|
| 4022 | ENERGY STAR Refrigerators (Bottom-Mount) | SFD | LI | ROB | 644.2 | 8.7% | 55.9 | 0.006 | 1.00 | 12 | \$17.29 | Installation of ENERGY STAR bottom-mount refrigerator instead of standard efficiency unit | 13.0% | 32.0% | 1.76 |
| 4023 | ENERGY STAR Freezers (Upright) | SFD | LI | ROB | 483.2 | 9.1% | 44.0 | 0.005 | 1.00 | 12 | \$6.75 | Installation of ENERGY STAR upright freezers instead of standard efficiency unit | 11.3% | 21.0% | 3.56 |
| 4024 | ENERGY STAR Freezers (Chest) | SFD | LI | ROB | 290.1 | 10.0% | 29.0 | 0.003 | 1.00 | 12 | \$5.23 | Installation of ENERGY STAR chest freezers instead of standard efficiency unit | 17.7% | 21.0% | 3.03 |
| 4025 | ENERGY STAR Clothes Washers (Electric Water Heating) | SFD | LI | ROB | 497.4 | 34.3% | 170.6 | 0.682 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 32.8% | 18.0% | 1.91 |
| 4026 | ENERGY STAR Clothes Washers (Gas Water Heating) | SFD | LI | ROB | 161.2 | 19.8% | 31.8 | 0.127 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with gas water heating | 58.2% | 18.0% | 0.36 |
| 4027 | ENERGY STAR Dehumidifiers | SFD | LI | ROB | 792.4 | 18.9% | 149.9 | 0.092 | 0.41 | 12 | \$20.21 | Installation of ENERGY STAR dehumidifier instead of standard efficiency unit | 27.0% | 83.9% | 4.70 |
| 4028 | ENERGY STAR Refrigerators (Top-Mount) | SFD | ALL | NC | 462.2 | 8.2% | 37.9 | 0.004 | 1.00 | 12 | \$21.83 | Installation of ENERGY STAR top-mount refrigerator instead of standard efficiency unit | 52.0% | 0.0% | 0.95 |
| 4029 | ENERGY STAR Refrigerators (Side-by-Side) | SFD | ALL | NC | 608.9 | 8.6% | 52.5 | 0.006 | 1.00 | 12 | \$57.31 | Installation of ENERGY STAR side-mount refrigerator instead of standard efficiency unit | 20.0% | 0.0% | 0.50 |
| 4030 | ENERGY STAR Refrigerators (Bottom-Mount) | SFD | ALL | NC | 644.2 | 8.7% | 55.9 | 0.006 | 1.00 | 12 | \$17.29 | Installation of ENERGY STAR bottom-mount refrigerator instead of standard efficiency unit | 13.0% | 0.0% | 1.76 |
| 4031 | ENERGY STAR Freezers (Upright) | SFD | ALL | NC | 483.2 | 9.1% | 44.0 | 0.005 | 1.00 | 12 | \$6.75 | Installation of ENERGY STAR upright freezers instead of standard efficiency unit | 11.3% | 0.0% | 3.56 |
| 4032 | ENERGY STAR Freezers (Chest) | SFD | ALL | NC | 290.1 | 10.0% | 29.0 | 0.003 | 1.00 | 12 | \$5.23 | Installation of ENERGY STAR chest freezers instead of standard efficiency unit | 17.7% | 0.0% | 3.03 |
| 4033 | ENERGY STAR Clothes Washers (Electric Water Heating) | SFD | ALL | NC | 497.4 | 34.3% | 170.6 | 0.682 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 32.8% | 0.0% | 1.91 |
| 4034 | ENERGY STAR Clothes Washers (Gas Water Heating) | SFD | ALL | NC | 161.2 | 19.8% | 31.8 | 0.127 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 58.2% | 0.0% | 0.36 |
| 4035 | ENERGY STAR Dishwashers (Electric Water Heating) | SFD | ALL | NC | 307.0 | 12.1% | 37.0 | 0.158 | 0.03 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with electric water heating | 26.2% | 0.0% | 1.81 |
| 4036 | ENERGY STAR Dishwashers (Gas Water Heating) | SFD | ALL | NC | 135.1 | 12.1% | 16.3 | 0.070 | 0.03 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with gas water heating | 34.8% | 0.0% | 0.79 |
| 4037 | ENERGY STAR Dehumidifiers | SFD | ALL | NC | 792.4 | 18.9% | 149.9 | 0.092 | 0.41 | 12 | \$20.21 | Installation of ENERGY STAR dehumidifier instead of standard efficiency unit | 27.0% | 0.0% | 4.70 |
| 4038 | ENERGY STAR Water Coolers | SFD | ALL | NC | 799.4 | 60.3% | 481.8 | 0.055 | 1.00 | 10 | \$50.00 | Installation of ENERGY STAR water cooler instead of standard efficiency unit | 1.2% | 0.0% | 4.68 |
| 4039 | ENERGY STAR Air Purifier/Cleaner | SFD | ALL | NC | 587.0 | 66.6% | 391.0 | 0.067 | 1.00 | 9 | \$70.00 | Installation of ENERGY STAR air purifier instead of standard efficiency unit | 7.0% | 0.0% | 2.66 |
| 4040 | ENERGY STAR Dryers | SFD | ALL | NC | 538.0 | 5.1% | 27.4 | 0.115 | 0.04 | 13 | \$50.00 | Installation of ENERGY STAR dryer instead of standard efficiency unit in homes with electric dryers | 60.1% | 0.0% | 0.35 |
| 4041 | Refrigerator Recycling with Replacement | SFA | NLI | Retrofit | 1,015.4 | 42.6% | 432.1 | 0.048 | 1.00 | 7 | \$120.00 | Retirement and replacement of non-primary refrigerators in homes with more than one refrigerator; replacement unit assumed to be standard efficiency model | 43.0% | 0.0% | 1.24 |
| 4042 | Refrigerator Recycling without Replacement | SFA | NLI | Retrofit | 1,015.4 | 100.0% | 1,015.4 | 0.114 | 1.00 | 8 | \$120.00 | Retirement (no replacement) of non-primary refrigerators in homes with more than one refrigerator | 43.0% | 0.0% | 3.29 |
| 4043 | Freezer Recycling with Replacement | SFA | ALL | Retrofit | 968.9 | 46.4% | 449.8 | 0.050 | 1.00 | 7 | \$120.00 | Retirement and replacement of non-primary freezers in homes with more than one freezer; replacement unit assumed to be standard efficiency model | 0.0% | 0.0% | 1.29 |

Measure Assumptions - PECO

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|--|-----------------|---------------|-------------------|
| 4044 | Freezer Recycling without Replacement | SFA | ALL | Retrofit | 968.9 | 100.0% | 968.9 | 0.108 | 1.00 | 8 | \$120.00 | Retirement (no replacement) of non-primary refrigerators in homes with more than one refrigerator | 0.0% | 0.0% | 3.14 |
| 4045 | ENERGY STAR Refrigerators (Top-Mount) | SFA | NLI | ROB | 462.2 | 8.2% | 37.9 | 0.004 | 1.00 | 12 | \$21.83 | Installation of ENERGY STAR top-mount refrigerator instead of standard efficiency unit | 52.0% | 32.0% | 0.95 |
| 4046 | ENERGY STAR Refrigerators (Side-by-Side) | SFA | NLI | ROB | 608.9 | 8.6% | 52.5 | 0.006 | 1.00 | 12 | \$57.31 | Installation of ENERGY STAR side-mount refrigerator instead of standard efficiency unit | 20.0% | 32.0% | 0.50 |
| 4047 | ENERGY STAR Refrigerators (Bottom-Mount) | SFA | NLI | ROB | 644.2 | 8.7% | 55.9 | 0.006 | 1.00 | 12 | \$17.29 | Installation of ENERGY STAR bottom-mount refrigerator instead of standard efficiency unit | 13.0% | 32.0% | 1.76 |
| 4048 | ENERGY STAR Freezers (Upright) | SFA | NLI | ROB | 483.2 | 9.1% | 44.0 | 0.005 | 1.00 | 12 | \$6.75 | Installation of ENERGY STAR upright freezers instead of standard efficiency unit | 11.3% | 21.0% | 3.56 |
| 4049 | ENERGY STAR Freezers (Chest) | SFA | NLI | ROB | 290.1 | 10.0% | 29.0 | 0.003 | 1.00 | 12 | \$5.23 | Installation of ENERGY STAR chest freezers instead of standard efficiency unit | 17.7% | 21.0% | 3.03 |
| 4050 | ENERGY STAR Clothes Washers (Electric Water Heating) | SFA | NLI | ROB | 497.4 | 34.3% | 170.6 | 0.682 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 32.8% | 18.0% | 1.91 |
| 4051 | ENERGY STAR Clothes Washers (Gas Water Heating) | SFA | NLI | ROB | 161.2 | 19.8% | 31.8 | 0.127 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 58.2% | 18.0% | 0.36 |
| 4052 | ENERGY STAR Dishwashers (Electric Water Heating) | SFA | ALL | ROB | 307.0 | 12.1% | 37.0 | 0.158 | 0.03 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with electric water heating | 26.2% | 45.0% | 1.81 |
| 4053 | ENERGY STAR Dishwashers (Gas Water Heating) | SFA | ALL | ROB | 135.1 | 12.1% | 16.3 | 0.070 | 0.03 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with gas water heating | 34.8% | 45.0% | 0.79 |
| 4054 | ENERGY STAR Dehumidifiers | SFA | NLI | ROB | 792.4 | 18.9% | 149.9 | 0.092 | 0.41 | 12 | \$20.21 | Installation of ENERGY STAR dehumidifier instead of standard efficiency unit | 27.0% | 83.9% | 4.70 |
| 4055 | ENERGY STAR Water Coolers | SFA | ALL | ROB | 799.4 | 60.3% | 481.8 | 0.055 | 1.00 | 10 | \$50.00 | Installation of ENERGY STAR water cooler instead of standard efficiency unit | 1.2% | 68.5% | 4.68 |
| 4056 | ENERGY STAR Air Purifier/Cleaner | SFA | ALL | ROB | 587.0 | 66.6% | 391.0 | 0.067 | 1.00 | 9 | \$70.00 | Installation of ENERGY STAR air purifier instead of standard efficiency unit | 7.0% | 33.3% | 2.66 |
| 4057 | ENERGY STAR Dryers | SFA | ALL | ROB | 538.0 | 5.1% | 27.4 | 0.115 | 0.04 | 13 | \$50.00 | Installation of ENERGY STAR dryer instead of standard efficiency unit in homes with electric dryers | 60.1% | 25.0% | 0.35 |
| 4058 | Refrigerator Recycling with Replacement | SFA | LI | Retrofit | 1,015.4 | 42.6% | 432.1 | 0.048 | 1.00 | 7 | \$120.00 | Retirement and replacement of non-primary refrigerators in homes with more than one refrigerator; replacement unit assumed to be standard efficiency model | 43.0% | 0.0% | 1.24 |
| 4059 | Refrigerator Recycling without Replacement | SFA | LI | Retrofit | 1,015.4 | 100.0% | 1,015.4 | 0.114 | 1.00 | 8 | \$120.00 | Retirement (no replacement) of non-primary refrigerators in homes with more than one refrigerator | 43.0% | 0.0% | 3.29 |
| 4060 | ENERGY STAR Refrigerators (Top-Mount) | SFA | LI | ROB | 462.2 | 8.2% | 37.9 | 0.004 | 1.00 | 12 | \$21.83 | Installation of ENERGY STAR top-mount refrigerator instead of standard efficiency unit | 52.0% | 32.0% | 0.95 |
| 4061 | ENERGY STAR Refrigerators (Side-by-Side) | SFA | LI | ROB | 608.9 | 8.6% | 52.5 | 0.006 | 1.00 | 12 | \$57.31 | Installation of ENERGY STAR side-mount refrigerator instead of standard efficiency unit | 20.0% | 32.0% | 0.50 |
| 4062 | ENERGY STAR Refrigerators (Bottom-Mount) | SFA | LI | ROB | 644.2 | 8.7% | 55.9 | 0.006 | 1.00 | 12 | \$17.29 | Installation of ENERGY STAR bottom-mount refrigerator instead of standard efficiency unit | 13.0% | 32.0% | 1.76 |
| 4063 | ENERGY STAR Freezers (Upright) | SFA | LI | ROB | 483.2 | 9.1% | 44.0 | 0.005 | 1.00 | 12 | \$6.75 | Installation of ENERGY STAR upright freezers instead of standard efficiency unit | 11.3% | 21.0% | 3.56 |
| 4064 | ENERGY STAR Freezers (Chest) | SFA | LI | ROB | 290.1 | 10.0% | 29.0 | 0.003 | 1.00 | 12 | \$5.23 | Installation of ENERGY STAR chest freezers instead of standard efficiency unit | 17.7% | 21.0% | 3.03 |
| 4065 | ENERGY STAR Clothes Washers (Electric Water Heating) | SFA | LI | ROB | 497.4 | 34.3% | 170.6 | 0.682 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 32.8% | 18.0% | 1.91 |
| 4066 | ENERGY STAR Clothes Washers (Gas Water Heating) | SFA | LI | ROB | 161.2 | 19.8% | 31.8 | 0.127 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 58.2% | 18.0% | 0.36 |

Measure Assumptions - PECO

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|--|-----------------|---------------|-------------------|
| 4067 | ENERGY STAR Dehumidifiers | SFA | LI | ROB | 792.4 | 18.9% | 149.9 | 0.092 | 0.41 | 12 | \$20.21 | Installation of ENERGY STAR dehumidifier instead of standard efficiency unit | 27.0% | 83.9% | 4.70 |
| 4068 | ENERGY STAR Refrigerators (Top-Mount) | SFA | ALL | NC | 462.2 | 8.2% | 37.9 | 0.004 | 1.00 | 12 | \$21.83 | Installation of ENERGY STAR top-mount refrigerator instead of standard efficiency unit | 52.0% | 0.0% | 0.95 |
| 4069 | ENERGY STAR Refrigerators (Side-by-Side) | SFA | ALL | NC | 608.9 | 8.6% | 52.5 | 0.006 | 1.00 | 12 | \$57.31 | Installation of ENERGY STAR side-mount refrigerator instead of standard efficiency unit | 20.0% | 0.0% | 0.50 |
| 4070 | ENERGY STAR Refrigerators (Bottom-Mount) | SFA | ALL | NC | 644.2 | 8.7% | 55.9 | 0.006 | 1.00 | 12 | \$17.29 | Installation of ENERGY STAR bottom-mount refrigerator instead of standard efficiency unit | 13.0% | 0.0% | 1.76 |
| 4071 | ENERGY STAR Freezers (Upright) | SFA | ALL | NC | 483.2 | 9.1% | 44.0 | 0.005 | 1.00 | 12 | \$6.75 | Installation of ENERGY STAR upright freezers instead of standard efficiency unit | 11.3% | 0.0% | 3.56 |
| 4072 | ENERGY STAR Freezers (Chest) | SFA | ALL | NC | 290.1 | 10.0% | 29.0 | 0.003 | 1.00 | 12 | \$5.23 | Installation of ENERGY STAR chest freezers instead of standard efficiency unit | 17.7% | 0.0% | 3.03 |
| 4073 | ENERGY STAR Clothes Washers (Electric Water Heating) | SFA | ALL | NC | 497.4 | 34.3% | 170.6 | 0.682 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 32.8% | 0.0% | 1.91 |
| 4074 | ENERGY STAR Clothes Washers (Gas Water Heating) | SFA | ALL | NC | 161.2 | 19.8% | 31.8 | 0.127 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 58.2% | 0.0% | 0.36 |
| 4075 | ENERGY STAR Dishwashers (Electric Water Heating) | SFA | ALL | NC | 307.0 | 12.1% | 37.0 | 0.158 | 0.03 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with electric water heating | 26.2% | 0.0% | 1.81 |
| 4076 | ENERGY STAR Dishwashers (Gas Water Heating) | SFA | ALL | NC | 135.1 | 12.1% | 16.3 | 0.070 | 0.03 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with gas water heating | 34.8% | 0.0% | 0.79 |
| 4077 | ENERGY STAR Dehumidifiers | SFA | ALL | NC | 792.4 | 18.9% | 149.9 | 0.092 | 0.41 | 12 | \$20.21 | Installation of ENERGY STAR dehumidifier instead of standard efficiency unit | 27.0% | 0.0% | 4.70 |
| 4078 | ENERGY STAR Water Coolers | SFA | ALL | NC | 799.4 | 60.3% | 481.8 | 0.055 | 1.00 | 10 | \$50.00 | Installation of ENERGY STAR water cooler instead of standard efficiency unit | 1.2% | 0.0% | 4.68 |
| 4079 | ENERGY STAR Air Purifier/Cleaner | SFA | ALL | NC | 587.0 | 66.6% | 391.0 | 0.067 | 1.00 | 9 | \$70.00 | Installation of ENERGY STAR air purifier instead of standard efficiency unit | 7.0% | 0.0% | 2.66 |
| 4080 | ENERGY STAR Dryers | SFA | ALL | NC | 538.0 | 5.1% | 27.4 | 0.115 | 0.04 | 13 | \$50.00 | Installation of ENERGY STAR dryer instead of standard efficiency unit in homes with electric dryers | 60.1% | 0.0% | 0.35 |
| 4081 | Refrigerator Recycling with Replacement | MF | NLI | Retrofit | 1,015.4 | 42.6% | 432.1 | 0.048 | 1.00 | 7 | \$120.00 | Retirement and replacement of non-primary refrigerators in homes with more than one refrigerator; replacement unit assumed to be standard efficiency model | 43.0% | 0.0% | 1.24 |
| 4082 | Refrigerator Recycling without Replacement | MF | NLI | Retrofit | 1,015.4 | 100.0% | 1,015.4 | 0.114 | 1.00 | 8 | \$120.00 | Retirement (no replacement) of non-primary refrigerators in homes with more than one refrigerator | 43.0% | 0.0% | 3.29 |
| 4083 | Freezer Recycling with Replacement | MF | ALL | Retrofit | 968.9 | 46.4% | 449.8 | 0.050 | 1.00 | 7 | \$120.00 | Retirement and replacement of non-primary freezers in homes with more than one freezer; replacement unit assumed to be standard efficiency model | 0.0% | 0.0% | 1.29 |
| 4084 | Freezer Recycling without Replacement | MF | ALL | Retrofit | 968.9 | 100.0% | 968.9 | 0.108 | 1.00 | 8 | \$120.00 | Retirement (no replacement) of non-primary refrigerators in homes with more than one refrigerator | 0.0% | 0.0% | 3.14 |
| 4085 | ENERGY STAR Refrigerators (Top-Mount) | MF | NLI | ROB | 462.2 | 8.2% | 37.9 | 0.004 | 1.00 | 12 | \$21.83 | Installation of ENERGY STAR top-mount refrigerator instead of standard efficiency unit | 52.0% | 32.0% | 0.95 |
| 4086 | ENERGY STAR Refrigerators (Side-by-Side) | MF | NLI | ROB | 608.9 | 8.6% | 52.5 | 0.006 | 1.00 | 12 | \$57.31 | Installation of ENERGY STAR side-mount refrigerator instead of standard efficiency unit | 20.0% | 32.0% | 0.50 |
| 4087 | ENERGY STAR Refrigerators (Bottom-Mount) | MF | NLI | ROB | 644.2 | 8.7% | 55.9 | 0.006 | 1.00 | 12 | \$17.29 | Installation of ENERGY STAR bottom-mount refrigerator instead of standard efficiency unit | 13.0% | 32.0% | 1.76 |
| 4088 | ENERGY STAR Freezers (Upright) | MF | NLI | ROB | 483.2 | 9.1% | 44.0 | 0.005 | 1.00 | 12 | \$6.75 | Installation of ENERGY STAR upright freezers instead of standard efficiency unit | 11.3% | 21.0% | 3.56 |
| 4089 | ENERGY STAR Freezers (Chest) | MF | NLI | ROB | 290.1 | 10.0% | 29.0 | 0.003 | 1.00 | 12 | \$5.23 | Installation of ENERGY STAR chest freezers instead of standard efficiency unit | 17.7% | 21.0% | 3.03 |
| 4090 | ENERGY STAR Clothes Washers (Electric Water Heating) | MF | NLI | ROB | 497.4 | 34.3% | 170.6 | 0.682 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 18.2% | 18.0% | 1.91 |

Measure Assumptions - PECO

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|--|-----------------|---------------|-------------------|
| 4091 | ENERGY STAR Clothes Washers (Gas Water Heating) | MF | NLI | ROB | 161.2 | 19.8% | 31.8 | 0.127 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 72.8% | 18.0% | 0.36 |
| 4092 | ENERGY STAR Dishwashers (Electric Water Heating) | MF | ALL | ROB | 307.0 | 12.1% | 37.0 | 0.158 | 0.03 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with electric water heating | 26.2% | 45.0% | 1.81 |
| 4093 | ENERGY STAR Dishwashers (Gas Water Heating) | MF | ALL | ROB | 135.1 | 12.1% | 16.3 | 0.070 | 0.03 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with gas water heating | 34.8% | 45.0% | 0.79 |
| 4094 | ENERGY STAR Dehumidifiers | MF | NLI | ROB | 792.4 | 18.9% | 149.9 | 0.092 | 0.41 | 12 | \$20.21 | Installation of ENERGY STAR dehumidifier instead of standard efficiency unit | 27.0% | 83.9% | 4.70 |
| 4095 | ENERGY STAR Water Coolers | MF | ALL | ROB | 799.4 | 60.3% | 481.8 | 0.055 | 1.00 | 10 | \$50.00 | Installation of ENERGY STAR water cooler instead of standard efficiency unit | 1.2% | 68.5% | 4.68 |
| 4096 | ENERGY STAR Air Purifier/Cleaner | MF | ALL | ROB | 587.0 | 66.6% | 391.0 | 0.067 | 1.00 | 9 | \$70.00 | Installation of ENERGY STAR air purifier instead of standard efficiency unit | 7.0% | 33.3% | 2.66 |
| 4097 | ENERGY STAR Dryers | MF | ALL | ROB | 538.0 | 5.1% | 27.4 | 0.115 | 0.04 | 13 | \$50.00 | Installation of ENERGY STAR dryer instead of standard efficiency unit in homes with electric dryers | 60.1% | 25.0% | 0.35 |
| 4098 | Refrigerator Recycling with Replacement | MF | LI | Retrofit | 1,015.4 | 42.6% | 432.1 | 0.048 | 1.00 | 7 | \$120.00 | Retirement and replacement of non-primary refrigerators in homes with more than one refrigerator; replacement unit assumed to be standard efficiency model | 43.0% | 0.0% | 1.24 |
| 4099 | Refrigerator Recycling without Replacement | MF | LI | Retrofit | 1,015.4 | 100.0% | 1,015.4 | 0.114 | 1.00 | 8 | \$120.00 | Retirement (no replacement) of non-primary refrigerators in homes with more than one refrigerator | 43.0% | 0.0% | 3.29 |
| 4100 | ENERGY STAR Refrigerators (Top-Mount) | MF | LI | ROB | 462.2 | 8.2% | 37.9 | 0.004 | 1.00 | 12 | \$21.83 | Installation of ENERGY STAR top-mount refrigerator instead of standard efficiency unit | 52.0% | 32.0% | 0.95 |
| 4101 | ENERGY STAR Refrigerators (Side-by-Side) | MF | LI | ROB | 608.9 | 8.6% | 52.5 | 0.006 | 1.00 | 12 | \$57.31 | Installation of ENERGY STAR side-mount refrigerator instead of standard efficiency unit | 20.0% | 32.0% | 0.50 |
| 4102 | ENERGY STAR Refrigerators (Bottom-Mount) | MF | LI | ROB | 644.2 | 8.7% | 55.9 | 0.006 | 1.00 | 12 | \$17.29 | Installation of ENERGY STAR bottom-mount refrigerator instead of standard efficiency unit | 13.0% | 32.0% | 1.76 |
| 4103 | ENERGY STAR Freezers (Upright) | MF | LI | ROB | 483.2 | 9.1% | 44.0 | 0.005 | 1.00 | 12 | \$6.75 | Installation of ENERGY STAR upright freezers instead of standard efficiency unit | 11.3% | 21.0% | 3.56 |
| 4104 | ENERGY STAR Freezers (Chest) | MF | LI | ROB | 290.1 | 10.0% | 29.0 | 0.003 | 1.00 | 12 | \$5.23 | Installation of ENERGY STAR chest freezers instead of standard efficiency unit | 17.7% | 21.0% | 3.03 |
| 4105 | ENERGY STAR Clothes Washers (Electric Water Heating) | MF | LI | ROB | 497.4 | 34.3% | 170.6 | 0.682 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 18.2% | 18.0% | 1.91 |
| 4106 | ENERGY STAR Clothes Washers (Gas Water Heating) | MF | LI | ROB | 161.2 | 19.8% | 31.8 | 0.127 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 72.8% | 18.0% | 0.36 |
| 4107 | ENERGY STAR Dehumidifiers | MF | LI | ROB | 792.4 | 18.9% | 149.9 | 0.092 | 0.41 | 12 | \$20.21 | Installation of ENERGY STAR dehumidifier instead of standard efficiency unit | 27.0% | 83.9% | 4.70 |
| 4108 | ENERGY STAR Refrigerators (Top-Mount) | MF | ALL | NC | 462.2 | 8.2% | 37.9 | 0.004 | 1.00 | 12 | \$21.83 | Installation of ENERGY STAR top-mount refrigerator instead of standard efficiency unit | 52.0% | 0.0% | 0.95 |
| 4109 | ENERGY STAR Refrigerators (Side-by-Side) | MF | ALL | NC | 608.9 | 8.6% | 52.5 | 0.006 | 1.00 | 12 | \$57.31 | Installation of ENERGY STAR side-mount refrigerator instead of standard efficiency unit | 20.0% | 0.0% | 0.50 |
| 4110 | ENERGY STAR Refrigerators (Bottom-Mount) | MF | ALL | NC | 644.2 | 8.7% | 55.9 | 0.006 | 1.00 | 12 | \$17.29 | Installation of ENERGY STAR bottom-mount refrigerator instead of standard efficiency unit | 13.0% | 0.0% | 1.76 |
| 4111 | ENERGY STAR Freezers (Upright) | MF | ALL | NC | 483.2 | 9.1% | 44.0 | 0.005 | 1.00 | 12 | \$6.75 | Installation of ENERGY STAR upright freezers instead of standard efficiency unit | 11.3% | 0.0% | 3.56 |
| 4112 | ENERGY STAR Freezers (Chest) | MF | ALL | NC | 290.1 | 10.0% | 29.0 | 0.003 | 1.00 | 12 | \$5.23 | Installation of ENERGY STAR chest freezers instead of standard efficiency unit | 17.7% | 0.0% | 3.03 |
| 4113 | ENERGY STAR Clothes Washers (Electric Water Heating) | MF | ALL | NC | 497.4 | 34.3% | 170.6 | 0.682 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 18.2% | 0.0% | 1.91 |

Measure Assumptions - PECO

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|--|-----------------|---------------|-------------------|
| 4114 | ENERGY STAR Clothes Washers (Gas Water Heating) | MF | ALL | NC | 161.2 | 19.8% | 31.8 | 0.127 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 72.8% | 0.0% | 0.36 |
| 4115 | ENERGY STAR Dishwashers (Electric Water Heating) | MF | ALL | NC | 307.0 | 12.1% | 37.0 | 0.158 | 0.03 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with electric water heating | 26.2% | 0.0% | 1.81 |
| 4116 | ENERGY STAR Dishwashers (Gas Water Heating) | MF | ALL | NC | 135.1 | 12.1% | 16.3 | 0.070 | 0.03 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with gas water heating | 34.8% | 0.0% | 0.79 |
| 4117 | ENERGY STAR Dehumidifiers | MF | ALL | NC | 792.4 | 18.9% | 149.9 | 0.092 | 0.41 | 12 | \$20.21 | Installation of ENERGY STAR dehumidifier instead of standard efficiency unit | 27.0% | 0.0% | 4.70 |
| 4118 | ENERGY STAR Water Coolers | MF | ALL | NC | 799.4 | 60.3% | 481.8 | 0.055 | 1.00 | 10 | \$50.00 | Installation of ENERGY STAR water cooler instead of standard efficiency unit | 1.2% | 0.0% | 4.68 |
| 4119 | ENERGY STAR Air Purifier/Cleaner | MF | ALL | NC | 587.0 | 66.6% | 391.0 | 0.067 | 1.00 | 9 | \$70.00 | Installation of ENERGY STAR air purifier instead of standard efficiency unit | 7.0% | 0.0% | 2.66 |
| 4120 | ENERGY STAR Dryers | MF | ALL | NC | 538.0 | 5.1% | 27.4 | 0.115 | 0.04 | 13 | \$50.00 | Installation of ENERGY STAR dryer instead of standard efficiency unit in homes with electric dryers | 60.1% | 0.0% | 0.35 |
| 5000 | Consumer Electronics | | | | | | | | | | | | | | |
| 5001 | Smart Strip Plug Outlets - Home Office | SFD | NLI | Retrofit | 48.9 | 100.0% | 48.9 | 0.007 | 0.83 | 10 | \$32.97 | Smart strip plug outlet for home office centers | 99.8% | 0.0% | 0.70 |
| 5002 | Smart Strip Plug Outlets - Entertainment Center | SFD | NLI | Retrofit | 62.1 | 100.0% | 62.1 | 0.009 | 0.90 | 10 | \$32.97 | Smart strip plug outlet for home entertainment centers | 168.1% | 6.9% | 0.89 |
| 5003 | ENERGY STAR Televisions > 50" | SFD | ALL | ROB | 197.1 | 49.3% | 97.1 | 0.053 | 0.17 | 6 | \$1.00 | Installation of high efficiency > 50" diameter television instead of a standard efficiency unit | 88.5% | 86.0% | 28.11 |
| 5004 | ENERGY STAR Televisions < 50" | SFD | ALL | ROB | 96.2 | 49.2% | 47.4 | 0.026 | 0.17 | 6 | \$1.00 | Installation of high efficiency < 50" diameter television instead of a standard efficiency unit | 206.5% | 86.0% | 13.72 |
| 5005 | ENERGY STAR Computer - Desktop | SFD | ALL | ROB | 165.6 | 42.7% | 70.7 | 0.022 | 0.76 | 4 | \$8.00 | Installation of high efficiency desktop computer instead of a standard efficiency unit | 64.0% | 27.5% | 2.08 |
| 5006 | ENERGY STAR Computer - Laptop | SFD | ALL | ROB | 52.8 | 40.8% | 21.5 | 0.007 | 0.76 | 4 | \$1.00 | Installation of high efficiency laptop computer instead of a standard efficiency unit | 108.0% | 75.5% | 5.08 |
| 5007 | ENERGY STAR Fax Machine | SFD | ALL | ROB | 52.1 | 30.0% | 15.6 | 0.002 | 1.00 | 4 | \$1.00 | Installation of high efficiency fax machine instead of a standard efficiency unit | 3.0% | 6.5% | 3.26 |
| 5008 | ENERGY STAR Copier | SFD | ALL | ROB | 182.5 | 25.7% | 46.9 | 0.022 | 0.28 | 6 | \$1.00 | Installation of high efficiency copier instead of a standard efficiency unit | 4.2% | 77.8% | 14.34 |
| 5009 | ENERGY STAR Printer | SFD | ALL | ROB | 43.8 | 55.0% | 24.1 | 0.006 | 0.59 | 5 | \$1.00 | Installation of high efficiency printer instead of a standard efficiency unit | 29.4% | 95.0% | 6.20 |
| 5010 | ENERGY STAR Multifunction | SFD | ALL | ROB | 70.1 | 66.3% | 46.4 | 0.011 | 0.59 | 6 | \$1.00 | Installation of high efficiency multifunction device instead of a standard efficiency unit | 53.2% | 95.0% | 14.18 |
| 5011 | ENERGY STAR Monitors | SFD | ALL | ROB | 73.6 | 32.4% | 23.8 | 0.013 | 0.26 | 4 | \$1.80 | Installation of high efficiency monitors instead of a standard efficiency unit | 64.0% | 73.3% | 2.76 |
| 5012 | Smart Strip Plug Outlets - Home Office | SFD | LI | Retrofit | 48.9 | 100.0% | 48.9 | 0.007 | 0.83 | 10 | \$32.97 | Smart strip plug outlet for home office centers | 99.8% | 0.0% | 0.70 |
| 5013 | Smart Strip Plug Outlets - Entertainment Center | SFD | LI | Retrofit | 62.1 | 100.0% | 62.1 | 0.009 | 0.90 | 10 | \$32.97 | Smart strip plug outlet for home entertainment centers | 168.1% | 6.9% | 0.89 |
| 5014 | Smart Strip Plug Outlets - Home Office | SFD | ALL | NC | 48.9 | 100.0% | 48.9 | 0.007 | 0.83 | 10 | \$32.97 | Smart strip plug outlet for home office centers | 99.8% | 0.0% | 0.70 |
| 5015 | Smart Strip Plug Outlets - Entertainment Center | SFD | ALL | NC | 62.1 | 100.0% | 62.1 | 0.009 | 0.90 | 10 | \$32.97 | Smart strip plug outlet for home entertainment centers | 168.1% | 0.0% | 0.89 |
| 5016 | ENERGY STAR Televisions > 50" | SFD | ALL | NC | 197.1 | 49.3% | 97.1 | 0.053 | 0.17 | 6 | \$1.00 | Installation of high efficiency > 50" diameter television instead of a standard efficiency unit | 88.5% | 0.0% | 28.11 |
| 5017 | ENERGY STAR Televisions < 50" | SFD | ALL | NC | 96.2 | 49.2% | 47.4 | 0.026 | 0.17 | 6 | \$1.00 | Installation of high efficiency < 50" diameter television instead of a standard efficiency unit | 206.5% | 0.0% | 13.72 |
| 5018 | ENERGY STAR Computer - Desktop | SFD | ALL | NC | 165.6 | 42.7% | 70.7 | 0.022 | 0.76 | 4 | \$8.00 | Installation of high efficiency desktop computer instead of a standard efficiency unit | 64.0% | 0.0% | 2.08 |

Measure Assumptions - PECO

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|---|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|---|-----------------|---------------|-------------------|
| 5019 | ENERGY STAR Computer - Laptop | SFD | ALL | NC | 52.8 | 40.8% | 21.5 | 0.007 | 0.76 | 4 | \$1.00 | Installation of high efficiency laptop computer instead of a standard efficiency unit | 108.0% | 0.0% | 5.08 |
| 5020 | ENERGY STAR Fax Machine | SFD | ALL | NC | 52.1 | 30.0% | 15.6 | 0.002 | 1.00 | 4 | \$1.00 | Installation of high efficiency fax machine instead of a standard efficiency unit | 3.0% | 0.0% | 3.26 |
| 5021 | ENERGY STAR Copier | SFD | ALL | NC | 182.5 | 25.7% | 46.9 | 0.022 | 0.28 | 6 | \$1.00 | Installation of high efficiency copier instead of a standard efficiency unit | 4.2% | 0.0% | 14.34 |
| 5022 | ENERGY STAR Printer | SFD | ALL | NC | 43.8 | 55.0% | 24.1 | 0.006 | 0.59 | 5 | \$1.00 | Installation of high efficiency printer instead of a standard efficiency unit | 29.4% | 0.0% | 6.20 |
| 5023 | ENERGY STAR Multifunction | SFD | ALL | NC | 70.1 | 66.3% | 46.4 | 0.011 | 0.59 | 6 | \$1.00 | Installation of high efficiency multifunction device instead of a standard efficiency unit | 53.2% | 0.0% | 14.18 |
| 5024 | ENERGY STAR Monitors | SFD | ALL | NC | 73.6 | 32.4% | 23.8 | 0.013 | 0.26 | 4 | \$1.80 | Installation of high efficiency monitors instead of a standard efficiency unit | 64.0% | 0.0% | 2.76 |
| 5025 | Smart Strip Plug Outlets - Home Office | SFA | NLI | Retrofit | 48.9 | 100.0% | 48.9 | 0.007 | 0.83 | 10 | \$32.97 | Smart strip plug outlet for home office centers | 99.8% | 0.0% | 0.70 |
| 5026 | Smart Strip Plug Outlets - Entertainment Center | SFA | NLI | Retrofit | 62.1 | 100.0% | 62.1 | 0.009 | 0.90 | 10 | \$32.97 | Smart strip plug outlet for home entertainment centers | 148.4% | 6.9% | 0.89 |
| 5027 | ENERGY STAR Televisions > 50" | SFA | ALL | ROB | 197.1 | 49.1% | 96.9 | 0.053 | 0.17 | 6 | \$1.00 | Installation of high efficiency > 50" diameter television instead of a standard efficiency unit | 78.1% | 86.0% | 28.05 |
| 5028 | ENERGY STAR Televisions < 50" | SFA | ALL | ROB | 98.1 | 49.3% | 48.4 | 0.027 | 0.17 | 6 | \$1.00 | Installation of high efficiency < 50" diameter television instead of a standard efficiency unit | 182.2% | 86.0% | 14.01 |
| 5029 | ENERGY STAR Computer - Desktop | SFA | ALL | ROB | 165.6 | 42.7% | 70.7 | 0.022 | 0.76 | 4 | \$8.00 | Installation of high efficiency desktop computer instead of a standard efficiency unit | 64.0% | 27.5% | 2.08 |
| 5030 | ENERGY STAR Computer - Laptop | SFA | ALL | ROB | 52.8 | 40.8% | 21.5 | 0.007 | 0.76 | 4 | \$1.00 | Installation of high efficiency laptop computer instead of a standard efficiency unit | 108.0% | 75.5% | 5.08 |
| 5031 | ENERGY STAR Fax Machine | SFA | ALL | ROB | 52.1 | 30.0% | 15.6 | 0.002 | 1.00 | 4 | \$1.00 | Installation of high efficiency fax machine instead of a standard efficiency unit | 3.0% | 6.5% | 3.26 |
| 5032 | ENERGY STAR Copier | SFA | ALL | ROB | 182.5 | 25.7% | 46.9 | 0.022 | 0.28 | 6 | \$1.00 | Installation of high efficiency copier instead of a standard efficiency unit | 1.7% | 77.8% | 14.34 |
| 5033 | ENERGY STAR Printer | SFA | ALL | ROB | 43.8 | 55.0% | 24.1 | 0.006 | 0.59 | 5 | \$1.00 | Installation of high efficiency printer instead of a standard efficiency unit | 29.0% | 95.0% | 6.20 |
| 5034 | ENERGY STAR Multifunction | SFA | ALL | ROB | 70.1 | 66.3% | 46.4 | 0.011 | 0.59 | 6 | \$1.00 | Installation of high efficiency multifunction device instead of a standard efficiency unit | 45.0% | 95.0% | 14.18 |
| 5035 | ENERGY STAR Monitors | SFA | ALL | ROB | 73.6 | 32.4% | 23.8 | 0.013 | 0.26 | 4 | \$1.80 | Installation of high efficiency monitors instead of a standard efficiency unit | 64.0% | 73.3% | 2.76 |
| 5036 | Smart Strip Plug Outlets - Home Office | SFA | LI | Retrofit | 48.9 | 100.0% | 48.9 | 0.007 | 0.83 | 10 | \$32.97 | Smart strip plug outlet for home office centers | 99.8% | 0.0% | 0.70 |
| 5037 | Smart Strip Plug Outlets - Entertainment Center | SFA | LI | Retrofit | 62.1 | 100.0% | 62.1 | 0.009 | 0.90 | 10 | \$32.97 | Smart strip plug outlet for home entertainment centers | 148.4% | 6.9% | 0.89 |
| 5038 | Smart Strip Plug Outlets - Home Office | SFA | ALL | NC | 48.9 | 100.0% | 48.9 | 0.007 | 0.83 | 10 | \$32.97 | Smart strip plug outlet for home office centers | 99.8% | 0.0% | 0.70 |
| 5039 | Smart Strip Plug Outlets - Entertainment Center | SFA | ALL | NC | 62.1 | 100.0% | 62.1 | 0.009 | 0.90 | 10 | \$32.97 | Smart strip plug outlet for home entertainment centers | 148.4% | 0.0% | 0.89 |
| 5040 | ENERGY STAR Televisions > 50" | SFA | ALL | NC | 197.1 | 49.1% | 96.9 | 0.053 | 0.17 | 6 | \$1.00 | Installation of high efficiency > 50" diameter television instead of a standard efficiency unit | 78.1% | 0.0% | 28.05 |
| 5041 | ENERGY STAR Televisions < 50" | SFA | ALL | NC | 98.1 | 49.3% | 48.4 | 0.027 | 0.17 | 6 | \$1.00 | Installation of high efficiency < 50" diameter television instead of a standard efficiency unit | 182.2% | 0.0% | 14.01 |
| 5042 | ENERGY STAR Computer - Desktop | SFA | ALL | NC | 165.6 | 42.7% | 70.7 | 0.022 | 0.76 | 4 | \$8.00 | Installation of high efficiency desktop computer instead of a standard efficiency unit | 64.0% | 0.0% | 2.08 |
| 5043 | ENERGY STAR Computer - Laptop | SFA | ALL | NC | 52.8 | 40.8% | 21.5 | 0.007 | 0.76 | 4 | \$1.00 | Installation of high efficiency laptop computer instead of a standard efficiency unit | 108.0% | 0.0% | 5.08 |
| 5044 | ENERGY STAR Fax Machine | SFA | ALL | NC | 52.1 | 30.0% | 15.6 | 0.002 | 1.00 | 4 | \$1.00 | Installation of high efficiency fax machine instead of a standard efficiency unit | 3.0% | 0.0% | 3.26 |

Measure Assumptions - PECO

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|---|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|---|-----------------|---------------|-------------------|
| 5045 | ENERGY STAR Copier | SFA | ALL | NC | 182.5 | 25.7% | 46.9 | 0.022 | 0.28 | 6 | \$1.00 | Installation of high efficiency copier instead of a standard efficiency unit | 1.7% | 0.0% | 14.34 |
| 5046 | ENERGY STAR Printer | SFA | ALL | NC | 43.8 | 55.0% | 24.1 | 0.006 | 0.59 | 5 | \$1.00 | Installation of high efficiency printer instead of a standard efficiency unit | 29.0% | 0.0% | 6.20 |
| 5047 | ENERGY STAR Multifunction | SFA | ALL | NC | 70.1 | 66.3% | 46.4 | 0.011 | 0.59 | 6 | \$1.00 | Installation of high efficiency multifunction device instead of a standard efficiency unit | 45.0% | 0.0% | 14.18 |
| 5048 | ENERGY STAR Monitors | SFA | ALL | NC | 73.6 | 32.4% | 23.8 | 0.013 | 0.26 | 4 | \$1.80 | Installation of high efficiency monitors instead of a standard efficiency unit | 64.0% | 0.0% | 2.76 |
| 5049 | Smart Strip Plug Outlets - Home Office | MF | NLI | Retrofit | 48.9 | 100.0% | 48.9 | 0.007 | 0.83 | 10 | \$32.97 | Smart strip plug outlet for home office centers | 99.8% | 0.0% | 0.70 |
| 5050 | Smart Strip Plug Outlets - Entertainment Center | MF | NLI | Retrofit | 62.1 | 100.0% | 62.1 | 0.009 | 0.90 | 10 | \$32.97 | Smart strip plug outlet for home entertainment centers | 111.0% | 6.9% | 0.89 |
| 5051 | ENERGY STAR Televisions > 50" | MF | ALL | ROB | 197.1 | 50.0% | 98.6 | 0.054 | 0.17 | 6 | \$1.00 | Installation of high efficiency > 50" diameter television instead of a standard efficiency unit | 58.4% | 86.0% | 28.54 |
| 5052 | ENERGY STAR Televisions < 50" | MF | ALL | ROB | 89.1 | 48.7% | 43.4 | 0.024 | 0.17 | 6 | \$1.00 | Installation of high efficiency < 50" diameter television instead of a standard efficiency unit | 136.3% | 86.0% | 12.56 |
| 5053 | ENERGY STAR Computer - Desktop | MF | ALL | ROB | 165.6 | 42.7% | 70.7 | 0.022 | 0.76 | 4 | \$8.00 | Installation of high efficiency desktop computer instead of a standard efficiency unit | 64.0% | 27.5% | 2.08 |
| 5054 | ENERGY STAR Computer - Laptop | MF | ALL | ROB | 52.8 | 40.8% | 21.5 | 0.007 | 0.76 | 4 | \$1.00 | Installation of high efficiency laptop computer instead of a standard efficiency unit | 108.0% | 75.5% | 5.08 |
| 5055 | ENERGY STAR Fax Machine | MF | ALL | ROB | 52.1 | 30.0% | 15.6 | 0.002 | 1.00 | 4 | \$1.00 | Installation of high efficiency fax machine instead of a standard efficiency unit | 3.0% | 6.5% | 3.26 |
| 5056 | ENERGY STAR Copier | MF | ALL | ROB | 182.5 | 25.7% | 46.9 | 0.022 | 0.28 | 6 | \$1.00 | Installation of high efficiency copier instead of a standard efficiency unit | 1.1% | 77.8% | 14.34 |
| 5057 | ENERGY STAR Printer | MF | ALL | ROB | 43.8 | 55.0% | 24.1 | 0.006 | 0.59 | 5 | \$1.00 | Installation of high efficiency printer instead of a standard efficiency unit | 12.6% | 95.0% | 6.20 |
| 5058 | ENERGY STAR Multifunction | MF | ALL | ROB | 70.1 | 66.3% | 46.4 | 0.011 | 0.59 | 6 | \$1.00 | Installation of high efficiency multifunction device instead of a standard efficiency unit | 30.3% | 95.0% | 14.18 |
| 5059 | ENERGY STAR Monitors | MF | ALL | ROB | 73.6 | 32.4% | 23.8 | 0.013 | 0.26 | 4 | \$1.80 | Installation of high efficiency monitors instead of a standard efficiency unit | 64.0% | 73.3% | 2.76 |
| 5060 | Smart Strip Plug Outlets - Home Office | MF | LI | Retrofit | 48.9 | 100.0% | 48.9 | 0.007 | 0.83 | 10 | \$32.97 | Smart strip plug outlet for home office centers | 99.8% | 0.0% | 0.70 |
| 5061 | Smart Strip Plug Outlets - Entertainment Center | MF | LI | Retrofit | 62.1 | 100.0% | 62.1 | 0.009 | 0.90 | 10 | \$32.97 | Smart strip plug outlet for home entertainment centers | 111.0% | 6.9% | 0.89 |
| 5062 | Smart Strip Plug Outlets - Home Office | MF | ALL | NC | 48.9 | 100.0% | 48.9 | 0.007 | 0.83 | 10 | \$32.97 | Smart strip plug outlet for home office centers | 99.8% | 0.0% | 0.70 |
| 5063 | Smart Strip Plug Outlets - Entertainment Center | MF | ALL | NC | 62.1 | 100.0% | 62.1 | 0.009 | 0.90 | 10 | \$32.97 | Smart strip plug outlet for home entertainment centers | 111.0% | 0.0% | 0.89 |
| 5064 | ENERGY STAR Televisions > 50" | MF | ALL | NC | 197.1 | 50.0% | 98.6 | 0.054 | 0.17 | 6 | \$1.00 | Installation of high efficiency > 50" diameter television instead of a standard efficiency unit | 58.4% | 0.0% | 28.54 |
| 5065 | ENERGY STAR Televisions < 50" | MF | ALL | NC | 89.1 | 48.7% | 43.4 | 0.024 | 0.17 | 6 | \$1.00 | Installation of high efficiency < 50" diameter television instead of a standard efficiency unit | 136.3% | 0.0% | 12.56 |
| 5066 | ENERGY STAR Computer - Desktop | MF | ALL | NC | 165.6 | 42.7% | 70.7 | 0.022 | 0.76 | 4 | \$8.00 | Installation of high efficiency desktop computer instead of a standard efficiency unit | 64.0% | 0.0% | 2.08 |
| 5067 | ENERGY STAR Computer - Laptop | MF | ALL | NC | 52.8 | 40.8% | 21.5 | 0.007 | 0.76 | 4 | \$1.00 | Installation of high efficiency laptop computer instead of a standard efficiency unit | 108.0% | 0.0% | 5.08 |
| 5068 | ENERGY STAR Fax Machine | MF | ALL | NC | 52.1 | 30.0% | 15.6 | 0.002 | 1.00 | 4 | \$1.00 | Installation of high efficiency fax machine instead of a standard efficiency unit | 3.0% | 0.0% | 3.26 |
| 5069 | ENERGY STAR Copier | MF | ALL | NC | 182.5 | 25.7% | 46.9 | 0.022 | 0.28 | 6 | \$1.00 | Installation of high efficiency copier instead of a standard efficiency unit | 1.1% | 0.0% | 14.34 |
| 5070 | ENERGY STAR Printer | MF | ALL | NC | 43.8 | 55.0% | 24.1 | 0.006 | 0.59 | 5 | \$1.00 | Installation of high efficiency printer instead of a standard efficiency unit | 12.6% | 0.0% | 6.20 |
| 5071 | ENERGY STAR Multifunction | MF | ALL | NC | 70.1 | 66.3% | 46.4 | 0.011 | 0.59 | 6 | \$1.00 | Installation of high efficiency multifunction device instead of a standard efficiency unit | 30.3% | 0.0% | 14.18 |

Measure Assumptions - PECO

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|--|-----------------|---------------|-------------------|
| 5072 | ENERGY STAR Monitors | MF | ALL | NC | 73.6 | 32.4% | 23.8 | 0.013 | 0.26 | 4 | \$1.80 | Installation of high efficiency monitors instead of a standard efficiency unit | 64.0% | 0.0% | 2.76 |
| 6000 | Building Shell | | | | | | | | | | | | | | |
| 6001 | Ceiling Insulation: R-20 to R-60 | SFD | NLI | Retrofit | 6,443.0 | 6.6% | 426.0 | 0.143 | 0.65 | 25 | \$3,252.54 | Addition of R-20 ceiling insulation in adequately insulated homes with heat pumps | 6.0% | 55.7% | 0.10 |
| 6002 | Ceiling Insulation: R-8 to R-38 | SFD | NLI | Retrofit | 7,257.0 | 15.4% | 1,116.0 | 0.359 | 0.65 | 25 | \$2,244.69 | Addition of R-8 ceiling insulation in poorly insulated homes with heat pumps | 6.0% | 86.0% | 0.37 |
| 6003 | Exterior Wall Insulation: R-0 to R-13 | SFD | NLI | Retrofit | 11,864.0 | 46.5% | 5,513.0 | 1.056 | 0.65 | 25 | \$3,371.44 | Addition of exterior wall insulation in poorly homes with heat pumps | 6.0% | 72.7% | 1.10 |
| 6004 | Exterior Wall Insulation: R-0 to R-19 | SFD | NLI | Retrofit | 11,864.0 | 51.9% | 6,158.0 | 1.280 | 0.65 | 25 | \$4,282.64 | Addition of exterior wall insulation in poorly homes with heat pumps | 6.0% | 72.7% | 0.98 |
| 6005 | Floor Insulation: R-0 to R-19 | SFD | NLI | Retrofit | 7,353.0 | 2.0% | 146.0 | -0.181 | 0.65 | 25 | \$2,371.70 | Addition of floor insulation in homes with unconditioned basements or crawl spaces and heat pumps | 2.1% | 37.0% | 0.00 |
| 6006 | Basement Wall Insulation: R-0 to R-13 | SFD | NLI | Retrofit | 5,941.0 | 7.0% | 413.0 | 0.005 | 0.65 | 25 | \$2,867.20 | Addition of basement wall insulation in homes with poorly insulated conditioned basements and heat pumps | 1.4% | 37.0% | 0.08 |
| 6007 | Air Sealing: 13 ACH50 to 9 ACH50 | SFD | NLI | Retrofit | 7,580.0 | 15.0% | 1,137.0 | 0.065 | 0.65 | 15 | \$1,128.60 | Air sealing in poorly sealed homes with heat pumps | 6.0% | 85.0% | 0.61 |
| 6008 | Air Sealing: 9 ACH50 to 7 ACH50 | SFD | NLI | Retrofit | 6,443.0 | 8.3% | 537.0 | 0.034 | 0.65 | 15 | \$1,128.60 | Air sealing in adequately sealed homes with heat pumps | 6.0% | 43.0% | 0.29 |
| 6009 | Duct Sealing: 38.5% to 25% (CFM @25Pa) | SFD | NLI | Retrofit | 6,632.0 | 2.8% | 189.0 | 0.043 | 0.65 | 20 | \$744.00 | Duct sealing in homes with poorly sealed ducts and heat pumps | 6.0% | 40.0% | 0.18 |
| 6010 | Duct Sealing: 25% to 16.25% (CFM @25Pa) | SFD | NLI | Retrofit | 6,443.0 | 2.0% | 127.0 | 0.030 | 0.65 | 20 | \$744.00 | Duct sealing in homes with adequately sealed ducts and heat pumps | 6.0% | 70.0% | 0.12 |
| 6011 | Duct Insulation (R-0 to R-8) | SFD | NLI | Retrofit | 6,634.0 | 3.5% | 234.0 | 0.017 | 0.65 | 20 | \$1,005.20 | Installation of duct insulation in homes with poorly insulated ducts and heat pumps | 6.0% | 26.0% | 0.14 |
| 6012 | Window Film (U=0.51, SHGC=0.24) | SFD | NLI | Retrofit | 7,386.0 | 9.8% | 727.0 | 0.720 | 0.65 | 10 | \$2,544.00 | Installation of window film on single-pane windows in homes with heat pumps | 6.0% | 89.0% | 0.23 |
| 6013 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFD | NLI | Retrofit | 6,443.0 | 4.3% | 276.0 | 0.263 | 0.65 | 20 | \$4,826.33 | Installation of ENERGY STAR windows to replace single-pane windows in homes with heat pumps | 6.0% | 89.0% | 0.06 |
| 6014 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFD | ALL | ROB | 6,443.0 | 4.3% | 276.0 | 0.263 | 0.65 | 20 | \$195.29 | Installation of ENERGY STAR windows instead of double-pane windows in homes with heat pumps | 6.0% | 37.0% | 1.49 |
| 6015 | Radiant Barrier | SFD | ALL | Retrofit | 6,443.0 | 1.4% | 87.0 | 0.079 | 0.65 | 25 | \$1,298.89 | Installation of radiant barriers in homes with heat pumps | 6.0% | 10.0% | 0.07 |
| 6016 | Low Income Weatherization Package | SFD | LI | Retrofit | 8,136.0 | 22.2% | 1,808.0 | 0.179 | 0.65 | 20 | \$7,788.56 | Installation of package of weatherization measures in homes with heat pumps | 6.0% | 55.7% | 0.15 |
| 6017 | Window Film (U=0.51, SHGC=0.24) | SFD | LI | Retrofit | 7,386.0 | 9.8% | 727.0 | 0.720 | 0.65 | 10 | \$2,544.00 | Installation of ENERGY STAR windows to replace single-pane windows in homes with heat pumps | 6.0% | 89.0% | 0.23 |
| 6018 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFD | LI | Retrofit | 6,443.0 | 4.3% | 276.0 | 0.263 | 0.65 | 20 | \$4,826.33 | Installation of ENERGY STAR windows instead of double-pane windows in homes with heat pumps | 6.0% | 89.0% | 0.06 |
| 6019 | Residential New Construction Tier 1 (15% more efficient) | SFD | ALL | NC | 4,997.0 | 24.4% | 1,219.0 | 0.114 | 0.65 | 20 | \$2,561.00 | New home built 15% more efficient than code - in homes with heat pumps | 13.0% | 0.0% | 0.30 |
| 6020 | Residential New Construction Tier 2 (30% more efficient) | SFD | ALL | NC | 4,997.0 | 30.1% | 1,503.0 | 0.211 | 0.65 | 20 | \$3,742.54 | New home built 30% more efficient than code - in homes with heat pumps | 13.0% | 0.0% | 0.26 |
| 6021 | Ceiling Insulation: R-20 to R-60 | SFD | NLI | Retrofit | 14,205.0 | 6.8% | 969.0 | 0.167 | 0.65 | 25 | \$3,252.54 | Addition of R-20 ceiling insulation in adequately insulated homes with non-heat pump electric heating | 7.0% | 55.7% | 0.20 |
| 6022 | Ceiling Insulation: R-8 to R-38 | SFD | NLI | Retrofit | 16,035.0 | 15.7% | 2,517.0 | 0.420 | 0.65 | 25 | \$2,244.69 | Addition of R-8 ceiling insulation in poorly insulated homes with non-heat pump electric heating | 7.0% | 86.0% | 0.74 |
| 6023 | Exterior Wall Insulation: R-0 to R-13 | SFD | NLI | Retrofit | 25,152.0 | 44.4% | 11,160.0 | 1.191 | 0.65 | 25 | \$3,371.44 | Addition of exterior wall insulation in poorly homes with non-heat pump electric heating | 7.0% | 72.7% | 2.09 |
| 6024 | Exterior Wall Insulation: R-0 to R-19 | SFD | NLI | Retrofit | 25,152.0 | 50.3% | 12,660.0 | 1.460 | 0.65 | 25 | \$4,282.64 | Addition of exterior wall insulation in poorly homes with non-heat pump electric heating | 7.0% | 72.7% | 1.88 |
| 6025 | Floor Insulation: R-0 to R-19 | SFD | NLI | Retrofit | 16,641.0 | 4.8% | 806.0 | -0.223 | 0.65 | 25 | \$2,371.70 | Addition of floor insulation in homes with unconditioned basements or crawl spaces and non-heat pump electric heating | 2.5% | 37.0% | 0.15 |
| 6026 | Basement Wall Insulation: R-0 to R-13 | SFD | NLI | Retrofit | 13,154.0 | 8.6% | 1,125.0 | -0.001 | 0.65 | 25 | \$2,867.20 | Addition of basement wall insulation in homes with poorly insulated conditioned basements and non-heat pump electric heating | 1.6% | 37.0% | 0.23 |
| 6027 | Air Sealing: 13 ACH50 to 9 ACH50 | SFD | NLI | Retrofit | 16,870.0 | 15.8% | 2,665.0 | 0.084 | 0.65 | 15 | \$1,128.60 | Air sealing in poorly sealed homes with non-heat pump electric heating | 7.0% | 85.0% | 1.40 |
| 6028 | Air Sealing: 9 ACH50 to 7 ACH50 | SFD | NLI | Retrofit | 14,205.0 | 9.2% | 1,312.0 | 0.040 | 0.65 | 15 | \$1,128.60 | Air sealing in adequately sealed homes with non-heat pump electric heating | 7.0% | 43.0% | 0.69 |
| 6029 | Duct Sealing: 38.5% to 25% (CFM @25Pa) | SFD | NLI | Retrofit | 14,639.0 | 3.0% | 434.0 | 0.055 | 0.65 | 20 | \$744.00 | Duct sealing in homes with poorly sealed ducts and electric furnaces | 4.0% | 40.0% | 0.37 |
| 6030 | Duct Sealing: 25% to 16.25% (CFM @25Pa) | SFD | NLI | Retrofit | 14,205.0 | 2.0% | 284.0 | 0.034 | 0.65 | 20 | \$744.00 | Duct sealing in homes with adequately sealed ducts and electric furnaces | 4.0% | 70.0% | 0.24 |
| 6031 | Duct Insulation (R-0 to R-8) | SFD | NLI | Retrofit | 14,622.0 | 3.4% | 496.0 | 0.026 | 0.65 | 20 | \$1,005.20 | Installation of duct insulation in homes with poorly insulated ducts and electric furnaces | 4.0% | 26.0% | 0.30 |
| 6032 | Window Film (U=0.51, SHGC=0.24) | SFD | NLI | Retrofit | 16,232.0 | 6.1% | 997.0 | 0.863 | 0.65 | 10 | \$2,544.00 | Installation of window film on single-pane windows in homes with non-heat pump electric heating | 7.0% | 89.0% | 0.29 |
| 6033 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFD | NLI | Retrofit | 14,205.0 | 2.9% | 418.0 | 0.316 | 0.65 | 20 | \$4,826.33 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-heat pump electric heating | 7.0% | 89.0% | 0.08 |
| 6034 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFD | ALL | ROB | 14,205.0 | 2.9% | 418.0 | 0.316 | 0.65 | 20 | \$195.29 | Installation of ENERGY STAR windows instead of double-pane windows in homes with non-heat pump electric heating | 7.0% | 37.0% | 2.04 |

Measure Assumptions - PECO

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|--|-----------------|---------------|-------------------|
| 6035 | Radiant Barrier | SFD | ALL | Retrofit | 14,205.0 | 1.0% | 143.0 | 0.092 | 0.65 | 25 | \$1,298.89 | Installation of radiant barriers in homes with non-heat pump electric heating | 7.0% | 10.0% | 0.10 |
| 6036 | Low Income Weatherization Package | SFD | LI | Retrofit | 18,086.0 | 28.0% | 5,073.0 | 0.357 | 0.65 | 20 | \$7,788.56 | Installation of package of weatherization measures in homes with non-heat pump electric heating | 7.0% | 55.7% | 0.40 |
| 6037 | Window Film (U=0.51, SHGC=0.24) | SFD | LI | Retrofit | 16,232.0 | 6.1% | 997.0 | 0.863 | 0.65 | 10 | \$2,544.00 | Installation of window film on single-pane windows in homes with non-heat pump electric heating | 7.0% | 89.0% | 0.29 |
| 6038 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFD | LI | Retrofit | 14,205.0 | 2.9% | 418.0 | 0.316 | 0.65 | 20 | \$4,826.33 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-heat pump electric heating | 7.0% | 89.0% | 0.08 |
| 6039 | Ceiling Insulation: R-20 to R-60 | SFD | NLI | Retrofit | 2,439.0 | 4.8% | 118.0 | 0.161 | 0.65 | 25 | \$3,252.54 | Addition of R-20 ceiling insulation in adequately insulated homes with non-electric heating | 87.0% | 55.7% | 0.05 |
| 6040 | Ceiling Insulation: R-8 to R-38 | SFD | NLI | Retrofit | 2,661.0 | 11.4% | 304.0 | 0.419 | 0.65 | 25 | \$2,244.69 | Addition of R-8 ceiling insulation in poorly insulated homes with non-electric heating | 87.0% | 86.0% | 0.18 |
| 6041 | Exterior Wall Insulation: R-0 to R-13 | SFD | NLI | Retrofit | 3,508.0 | 31.1% | 1,090.0 | 1.198 | 0.65 | 25 | \$3,371.44 | Addition of exterior wall insulation in poorly homes with non-electric heating | 87.0% | 72.7% | 0.39 |
| 6042 | Exterior Wall Insulation: R-0 to R-19 | SFD | NLI | Retrofit | 3,508.0 | 35.4% | 1,243.0 | 1.471 | 0.65 | 25 | \$4,282.64 | Addition of exterior wall insulation in poorly homes with non-electric heating | 87.0% | 72.7% | 0.36 |
| 6043 | Floor Insulation: R-0 to R-19 | SFD | NLI | Retrofit | 2,360.0 | -9.9% | -234.0 | -0.209 | 0.65 | 25 | \$2,371.70 | Addition of floor insulation in homes with unconditioned basements or crawl spaces and non-electric heating | 31.1% | 37.0% | -0.11 |
| 6044 | Basement Wall Insulation: R-0 to R-13 | SFD | NLI | Retrofit | 2,289.0 | -0.7% | -15.0 | -0.003 | 0.65 | 25 | \$2,867.20 | Addition of basement wall insulation in homes with poorly insulated conditioned basements and non-electric heating | 20.3% | 37.0% | 0.00 |
| 6045 | Air Sealing: 13 ACH50 to 9 ACH50 | SFD | NLI | Retrofit | 2,559.0 | 4.7% | 120.0 | 0.086 | 0.65 | 15 | \$1,128.60 | Air sealing in poorly sealed homes with non-electric heating | 87.0% | 85.0% | 0.11 |
| 6046 | Air Sealing: 9 ACH50 to 7 ACH50 | SFD | NLI | Retrofit | 2,439.0 | 2.4% | 59.0 | 0.040 | 0.65 | 15 | \$1,128.60 | Air sealing in adequately sealed homes with non-electric heating | 87.0% | 43.0% | 0.05 |
| 6047 | Duct Sealing: 38.5% to 25% (CFM @25Pa) | SFD | NLI | Retrofit | 2,506.0 | 2.7% | 67.0 | 0.058 | 0.65 | 20 | \$744.00 | Duct sealing in homes with poorly sealed ducts and non-electric furnaces | 52.0% | 40.0% | 0.10 |
| 6048 | Duct Sealing: 25% to 16.25% (CFM @25Pa) | SFD | NLI | Retrofit | 2,439.0 | 1.7% | 42.0 | 0.034 | 0.65 | 20 | \$744.00 | Duct sealing in homes with adequately sealed ducts and non-electric furnaces | 52.0% | 70.0% | 0.06 |
| 6049 | Duct Insulation (R-0 to R-8) | SFD | NLI | Retrofit | 2,491.0 | 2.4% | 61.0 | 0.042 | 0.65 | 20 | \$1,005.20 | Installation of duct insulation in homes with poorly insulated ducts and non-electric furnaces | 52.0% | 26.0% | 0.06 |
| 6050 | Window Film (U=0.51, SHGC=0.24) | SFD | NLI | Retrofit | 2,740.0 | 23.4% | 641.0 | 0.864 | 0.65 | 10 | \$2,544.00 | Installation of window film on single-pane windows in homes with non-electric heating | 87.0% | 89.0% | 0.25 |
| 6051 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFD | NLI | Retrofit | 2,439.0 | 9.4% | 229.0 | 0.316 | 0.65 | 20 | \$4,826.33 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-electric heating | 87.0% | 89.0% | 0.06 |
| 6052 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFD | ALL | ROB | 2,439.0 | 9.4% | 229.0 | 0.316 | 0.65 | 20 | \$195.29 | Installation of ENERGY STAR windows instead of double-pane windows in homes with non-electric heating | 87.0% | 37.0% | 1.57 |
| 6053 | Radiant Barrier | SFD | ALL | Retrofit | 2,439.0 | 2.5% | 62.0 | 0.083 | 0.65 | 25 | \$1,298.89 | Installation of radiant barriers in homes with non-electric heating | 87.0% | 10.0% | 0.06 |
| 6054 | Low Income Weatherization Package | SFD | LI | Retrofit | 2,653.0 | 6.1% | 163.0 | 0.125 | 0.65 | 20 | \$2,511.62 | Installation of package of weatherization measures in homes with non-electric heating | 87.0% | 55.7% | 0.07 |
| 6055 | Window Film (U=0.51, SHGC=0.24) | SFD | LI | Retrofit | 2,740.0 | 23.4% | 641.0 | 0.864 | 0.65 | 10 | \$2,544.00 | Installation of window film on single-pane windows in homes with non-electric heating | 87.0% | 89.0% | 0.25 |
| 6056 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFD | LI | Retrofit | 2,439.0 | 9.4% | 229.0 | 0.316 | 0.65 | 20 | \$4,826.33 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-electric heating | 87.0% | 89.0% | 0.06 |
| 6057 | Residential New Construction Tier 1 (15% more efficient) | SFD | ALL | NC | 1,779.0 | 8.3% | 147.0 | 0.132 | 0.65 | 20 | \$2,561.00 | New home built 15% more efficient than code - in homes with non-electric heating | 87.0% | 0.0% | 0.06 |
| 6058 | Residential New Construction Tier 2 (30% more efficient) | SFD | ALL | NC | 1,779.0 | 27.5% | 490.0 | 0.451 | 0.65 | 20 | \$4,971.41 | New home built 30% more efficient than code - in homes with non-electric heating | 87.0% | 0.0% | 0.11 |
| 6059 | Ceiling Insulation: R-20 to R-60 | SFA | NLI | Retrofit | 4,645.0 | 7.1% | 331.0 | 0.127 | 0.65 | 25 | \$2,567.00 | Addition of R-20 ceiling insulation in adequately insulated homes with heat pumps | 6.0% | 55.7% | 0.10 |
| 6060 | Ceiling Insulation: R-8 to R-38 | SFA | NLI | Retrofit | 5,261.0 | 16.2% | 850.0 | 0.301 | 0.65 | 25 | \$1,771.58 | Addition of R-8 ceiling insulation in poorly insulated homes with heat pumps | 6.0% | 86.0% | 0.36 |
| 6061 | Exterior Wall Insulation: R-0 to R-13 | SFA | NLI | Retrofit | 7,049.0 | 34.8% | 2,450.0 | 0.535 | 0.65 | 25 | \$2,968.88 | Addition of exterior wall insulation in poorly homes with heat pumps | 6.0% | 72.7% | 0.57 |
| 6062 | Exterior Wall Insulation: R-0 to R-19 | SFA | NLI | Retrofit | 7,049.0 | 39.3% | 2,770.0 | 0.634 | 0.65 | 25 | \$3,771.28 | Addition of exterior wall insulation in poorly homes with heat pumps | 6.0% | 72.7% | 0.51 |
| 6063 | Floor Insulation: R-0 to R-19 | SFA | NLI | Retrofit | 4,789.0 | 3.6% | 171.0 | -0.120 | 0.65 | 25 | \$1,572.50 | Addition of floor insulation in homes with unconditioned basements or crawl spaces and heat pumps | 2.1% | 37.0% | 0.02 |
| 6064 | Basement Wall Insulation: R-0 to R-13 | SFA | NLI | Retrofit | 3,948.0 | 7.6% | 299.0 | 0.013 | 0.65 | 25 | \$2,406.40 | Addition of basement wall insulation in homes with poorly insulated conditioned basements and heat pumps | 1.4% | 37.0% | 0.07 |
| 6065 | Air Sealing: 13 ACH50 to 9 ACH50 | SFA | NLI | Retrofit | 5,480.0 | 15.2% | 835.0 | 0.059 | 0.65 | 15 | \$748.00 | Air sealing in poorly sealed homes with heat pumps | 6.0% | 85.0% | 0.68 |
| 6066 | Air Sealing: 9 ACH50 to 7 ACH50 | SFA | NLI | Retrofit | 4,645.0 | 8.8% | 410.0 | 0.033 | 0.65 | 15 | \$748.00 | Air sealing in adequately sealed homes with heat pumps | 6.0% | 43.0% | 0.34 |
| 6067 | Duct Sealing: 38.5% to 25% (CFM @25Pa) | SFA | NLI | Retrofit | 4,774.0 | 2.7% | 129.0 | 0.027 | 0.65 | 20 | \$744.00 | Duct sealing in homes with poorly sealed ducts and heat pumps | 6.0% | 40.0% | 0.12 |
| 6068 | Duct Sealing: 25% to 16.25% (CFM @25Pa) | SFA | NLI | Retrofit | 4,645.0 | 1.9% | 90.0 | 0.020 | 0.65 | 20 | \$744.00 | Duct sealing in homes with adequately sealed ducts and heat pumps | 6.0% | 70.0% | 0.08 |
| 6069 | Duct Insulation (R-0 to R-8) | SFA | NLI | Retrofit | 4,751.0 | 2.7% | 129.0 | 0.008 | 0.65 | 20 | \$666.40 | Installation of duct insulation in homes with poorly insulated ducts and heat pumps | 6.0% | 26.0% | 0.12 |
| 6070 | Window Film (U=0.51, SHGC=0.24) | SFA | NLI | Retrofit | 5,317.0 | 10.8% | 575.0 | 0.506 | 0.65 | 10 | \$1,704.00 | Installation of window film on single-pane windows in homes with heat pumps | 6.0% | 89.0% | 0.25 |

Measure Assumptions - PECO

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|--|-----------------|---------------|-------------------|
| 6071 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFA | NLI | Retrofit | 4,645.0 | 5.0% | 234.0 | 0.194 | 0.65 | 20 | \$3,232.73 | Installation of ENERGY STAR windows to replace single-pane windows in homes with heat pumps | 6.0% | 89.0% | 0.07 |
| 6072 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFA | ALL | ROB | 4,645.0 | 5.0% | 234.0 | 0.194 | 0.65 | 20 | \$130.81 | Installation of ENERGY STAR windows instead of double-pane windows in homes with heat pumps | 6.0% | 37.0% | 1.77 |
| 6073 | Low Income Weatherization Package | SFA | LI | Retrofit | 5,723.0 | 25.6% | 1,467.0 | 0.200 | 0.65 | 20 | \$4,938.29 | Installation of package of weatherization measures in homes with heat pumps | 6.0% | 55.7% | 0.19 |
| 6074 | Window Film (U=0.51, SHGC=0.24) | SFA | LI | Retrofit | 5,317.0 | 10.8% | 575.0 | 0.506 | 0.65 | 10 | \$1,704.00 | Installation of window film on single-pane windows in homes with heat pumps | 6.0% | 89.0% | 0.25 |
| 6075 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFA | LI | Retrofit | 4,645.0 | 5.0% | 234.0 | 0.194 | 0.65 | 20 | \$3,232.73 | Installation of ENERGY STAR windows to replace single-pane windows in homes with heat pumps | 6.0% | 89.0% | 0.07 |
| 6076 | Residential New Construction Tier 1 (15% more efficient) | SFA | ALL | NC | 4,165.0 | 29.7% | 1,236.0 | 0.125 | 0.65 | 20 | \$2,561.00 | New home built 15% more efficient than code - in homes with heat pumps | 13.0% | 0.0% | 0.30 |
| 6077 | Residential New Construction Tier 2 (30% more efficient) | SFA | ALL | NC | 4,165.0 | 32.7% | 1,360.0 | 0.195 | 0.65 | 20 | \$3,345.67 | New home built 30% more efficient than code - in homes with heat pumps | 13.0% | 0.0% | 0.26 |
| 6078 | Ceiling Insulation: R-20 to R-60 | SFA | NLI | Retrofit | 9,655.0 | 8.0% | 771.0 | 0.149 | 0.65 | 25 | \$2,567.00 | Addition of R-20 ceiling insulation in adequately insulated homes with non-heat pump electric heating | 7.0% | 55.7% | 0.20 |
| 6079 | Ceiling Insulation: R-8 to R-38 | SFA | NLI | Retrofit | 11,117.0 | 18.1% | 2,008.0 | 0.354 | 0.65 | 25 | \$1,771.58 | Addition of R-8 ceiling insulation in poorly insulated homes with non-heat pump electric heating | 7.0% | 86.0% | 0.75 |
| 6080 | Exterior Wall Insulation: R-0 to R-13 | SFA | NLI | Retrofit | 15,323.0 | 37.7% | 5,774.0 | 0.617 | 0.65 | 25 | \$2,968.88 | Addition of exterior wall insulation in poorly homes with non-heat pump electric heating | 7.0% | 72.7% | 1.23 |
| 6081 | Exterior Wall Insulation: R-0 to R-19 | SFA | NLI | Retrofit | 15,323.0 | 42.6% | 6,527.0 | 0.737 | 0.65 | 25 | \$3,771.28 | Addition of exterior wall insulation in poorly homes with non-heat pump electric heating | 7.0% | 72.7% | 1.10 |
| 6082 | Floor Insulation: R-0 to R-19 | SFA | NLI | Retrofit | 10,310.0 | 7.5% | 770.0 | -0.142 | 0.65 | 25 | \$1,572.50 | Addition of floor insulation in homes with unconditioned basements or crawl spaces and non-heat pump electric heating | 2.5% | 37.0% | 0.24 |
| 6083 | Basement Wall Insulation: R-0 to R-13 | SFA | NLI | Retrofit | 8,069.0 | 9.9% | 801.0 | 0.025 | 0.65 | 25 | \$2,406.40 | Addition of basement wall insulation in homes with poorly insulated conditioned basements and non-heat pump electric heating | 1.6% | 37.0% | 0.20 |
| 6084 | Air Sealing: 13 ACH50 to 9 ACH50 | SFA | NLI | Retrofit | 11,791.0 | 18.1% | 2,136.0 | 0.070 | 0.65 | 15 | \$748.00 | Air sealing in poorly sealed homes with non-heat pump electric heating | 7.0% | 85.0% | 1.70 |
| 6085 | Air Sealing: 9 ACH50 to 7 ACH50 | SFA | NLI | Retrofit | 9,655.0 | 10.8% | 1,042.0 | 0.043 | 0.65 | 15 | \$748.00 | Air sealing in adequately sealed homes with non-heat pump electric heating | 7.0% | 43.0% | 0.83 |
| 6086 | Duct Sealing: 38.5% to 25% (CFM @25Pa) | SFA | NLI | Retrofit | 9,962.0 | 3.1% | 307.0 | 0.029 | 0.65 | 20 | \$744.00 | Duct sealing in homes with poorly sealed ducts and electric furnaces | 4.0% | 40.0% | 0.26 |
| 6087 | Duct Sealing: 25% to 16.25% (CFM @25Pa) | SFA | NLI | Retrofit | 9,655.0 | 2.1% | 203.0 | 0.021 | 0.65 | 20 | \$744.00 | Duct sealing in homes with adequately sealed ducts and electric furnaces | 4.0% | 70.0% | 0.17 |
| 6088 | Duct Insulation (R-0 to R-8) | SFA | NLI | Retrofit | 9,861.0 | 2.4% | 241.0 | 0.016 | 0.65 | 20 | \$666.40 | Installation of duct insulation in homes with poorly insulated ducts and electric furnaces | 4.0% | 26.0% | 0.22 |
| 6089 | Window Film (U=0.51, SHGC=0.24) | SFA | NLI | Retrofit | 11,173.0 | 7.3% | 821.0 | 0.600 | 0.65 | 10 | \$1,704.00 | Installation of window film on single-pane windows in homes with non-heat pump electric heating | 7.0% | 89.0% | 0.33 |
| 6090 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFA | NLI | Retrofit | 9,655.0 | 3.7% | 358.0 | 0.227 | 0.65 | 20 | \$3,232.73 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-heat pump electric heating | 7.0% | 89.0% | 0.10 |
| 6091 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFA | ALL | ROB | 9,655.0 | 3.7% | 358.0 | 0.227 | 0.65 | 20 | \$130.81 | Installation of ENERGY STAR windows instead of double-pane windows in homes with non-heat pump electric heating | 7.0% | 37.0% | 2.44 |
| 6092 | Low Income Weatherization Package | SFA | LI | Retrofit | 12,407.0 | 30.0% | 3,720.0 | 0.233 | 0.65 | 20 | \$4,938.29 | Installation of package of weatherization measures in homes with non-heat pump electric heating | 7.0% | 55.7% | 0.46 |
| 6093 | Window Film (U=0.51, SHGC=0.24) | SFA | LI | Retrofit | 11,173.0 | 7.3% | 821.0 | 0.600 | 0.65 | 10 | \$1,704.00 | Installation of window film on single-pane windows in homes with non-heat pump electric heating | 7.0% | 89.0% | 0.33 |
| 6094 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFA | LI | Retrofit | 9,655.0 | 3.7% | 358.0 | 0.227 | 0.65 | 20 | \$3,232.73 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-heat pump electric heating | 7.0% | 89.0% | 0.10 |
| 6095 | Ceiling Insulation: R-20 to R-60 | SFA | NLI | Retrofit | 2,137.0 | 4.4% | 95.0 | 0.143 | 0.65 | 25 | \$2,567.00 | Addition of R-20 ceiling insulation in adequately insulated homes with non-electric heating | 87.0% | 55.7% | 0.05 |
| 6096 | Ceiling Insulation: R-8 to R-38 | SFA | NLI | Retrofit | 2,309.0 | 10.4% | 240.0 | 0.356 | 0.65 | 25 | \$1,771.58 | Addition of R-8 ceiling insulation in poorly insulated homes with non-electric heating | 87.0% | 86.0% | 0.19 |
| 6097 | Exterior Wall Insulation: R-0 to R-13 | SFA | NLI | Retrofit | 2,752.0 | 22.9% | 630.0 | 0.610 | 0.65 | 25 | \$2,968.88 | Addition of exterior wall insulation in poorly homes with non-electric heating | 87.0% | 72.7% | 0.24 |
| 6098 | Exterior Wall Insulation: R-0 to R-19 | SFA | NLI | Retrofit | 2,752.0 | 25.9% | 713.0 | 0.731 | 0.65 | 25 | \$3,771.28 | Addition of exterior wall insulation in poorly homes with non-electric heating | 87.0% | 72.7% | 0.22 |
| 6099 | Floor Insulation: R-0 to R-19 | SFA | NLI | Retrofit | 1,981.0 | -9.0% | -179.0 | -0.123 | 0.65 | 25 | \$1,572.50 | Addition of floor insulation in homes with unconditioned basements or crawl spaces and non-electric heating | 31.1% | 37.0% | -0.11 |
| 6100 | Basement Wall Insulation: R-0 to R-13 | SFA | NLI | Retrofit | 1,946.0 | 0.2% | 3.0 | 0.025 | 0.65 | 25 | \$2,406.40 | Addition of basement wall insulation in homes with poorly insulated conditioned basements and non-electric heating | 20.3% | 37.0% | 0.01 |
| 6101 | Air Sealing: 13 ACH50 to 9 ACH50 | SFA | NLI | Retrofit | 2,230.0 | 4.2% | 93.0 | 0.077 | 0.65 | 15 | \$748.00 | Air sealing in poorly sealed homes with non-electric heating | 87.0% | 85.0% | 0.13 |
| 6102 | Air Sealing: 9 ACH50 to 7 ACH50 | SFA | NLI | Retrofit | 2,137.0 | 2.4% | 51.0 | 0.036 | 0.65 | 15 | \$748.00 | Air sealing in adequately sealed homes with non-electric heating | 87.0% | 43.0% | 0.07 |
| 6103 | Duct Sealing: 38.5% to 25% (CFM @25Pa) | SFA | NLI | Retrofit | 2,180.0 | 2.0% | 43.0 | 0.036 | 0.65 | 20 | \$744.00 | Duct sealing in homes with poorly sealed ducts and non-electric furnaces | 52.0% | 40.0% | 0.06 |
| 6104 | Duct Sealing: 25% to 16.25% (CFM @25Pa) | SFA | NLI | Retrofit | 2,137.0 | 1.5% | 32.0 | 0.022 | 0.65 | 20 | \$744.00 | Duct sealing in homes with adequately sealed ducts and non-electric furnaces | 52.0% | 70.0% | 0.04 |

Measure Assumptions - PECO

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|---|-----------------|---------------|-------------------|
| 6105 | Duct Insulation (R-0 to R-8) | SFA | NLI | Retrofit | 2,157.0 | 1.2% | 26.0 | 0.017 | 0.65 | 20 | \$666.40 | Installation of duct insulation in homes with poorly insulated ducts and non-electric furnaces | 52.0% | 26.0% | 0.04 |
| 6106 | Window Film (U=0.51, SHGC=0.24) | SFA | NLI | Retrofit | 2,386.0 | 25.1% | 598.0 | 0.606 | 0.65 | 10 | \$1,704.00 | Installation of window film on single-pane windows in homes with non-electric heating | 87.0% | 89.0% | 0.30 |
| 6107 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFA | NLI | Retrofit | 2,137.0 | 10.6% | 226.0 | 0.227 | 0.65 | 20 | \$3,232.73 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-electric heating | 87.0% | 89.0% | 0.08 |
| 6108 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFA | ALL | ROB | 2,137.0 | 10.6% | 226.0 | 0.227 | 0.65 | 20 | \$130.81 | Installation of ENERGY STAR windows instead of double-pane windows in homes with non-electric heating | 87.0% | 37.0% | 2.00 |
| 6109 | Low Income Weatherization Package | SFA | LI | Retrofit | 2,271.0 | 5.8% | 131.0 | 0.099 | 0.65 | 20 | \$1,915.64 | Installation of package of weatherization measures in homes with non-electric heating | 87.0% | 55.7% | 0.07 |
| 6110 | Window Film (U=0.51, SHGC=0.24) | SFA | LI | Retrofit | 2,386.0 | 25.1% | 598.0 | 0.606 | 0.65 | 10 | \$1,704.00 | Installation of window film on single-pane windows in homes with non-electric heating | 87.0% | 89.0% | 0.30 |
| 6111 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFA | LI | Retrofit | 2,137.0 | 10.6% | 226.0 | 0.227 | 0.65 | 20 | \$3,232.73 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-electric heating | 87.0% | 89.0% | 0.08 |
| 6112 | Residential New Construction Tier 1 (15% more efficient) | SFA | ALL | NC | 1,606.0 | 9.7% | 156.0 | 0.147 | 0.65 | 20 | \$2,561.00 | New home built 15% more efficient than code - in homes with non-electric heating | 87.0% | 0.0% | 0.07 |
| 6113 | Residential New Construction Tier 2 (30% more efficient) | SFA | ALL | NC | 1,606.0 | 24.1% | 387.0 | 0.380 | 0.65 | 20 | \$4,302.19 | New home built 30% more efficient than code - in homes with non-electric heating | 87.0% | 0.0% | 0.10 |
| 6114 | Exterior Wall Insulation: R-0 to R-13 | MF | NLI | Retrofit | 3,139.0 | 31.5% | 990.0 | 0.259 | 0.65 | 25 | \$1,509.60 | Addition of exterior wall insulation in poorly homes with heat pumps | 13.8% | 72.7% | 0.46 |
| 6115 | Exterior Wall Insulation: R-0 to R-19 | MF | NLI | Retrofit | 3,139.0 | 35.7% | 1,120.0 | 0.304 | 0.65 | 25 | \$1,917.60 | Addition of exterior wall insulation in poorly homes with heat pumps | 13.8% | 72.7% | 0.42 |
| 6116 | Air Sealing: 13 ACH50 to 9 ACH50 | MF | NLI | Retrofit | 2,403.0 | 9.9% | 237.0 | 0.019 | 0.65 | 15 | \$385.00 | Air sealing in poorly sealed homes with heat pumps | 13.8% | 85.0% | 0.38 |
| 6117 | Air Sealing: 9 ACH50 to 7 ACH50 | MF | NLI | Retrofit | 2,166.0 | 5.1% | 111.0 | 0.017 | 0.65 | 15 | \$385.00 | Air sealing in adequately sealed homes with heat pumps | 13.8% | 43.0% | 0.19 |
| 6118 | Duct Sealing: 38.5% to 25% (CFM @25Pa) | MF | NLI | Retrofit | 2,380.0 | 9.0% | 214.0 | 0.110 | 0.65 | 20 | \$744.00 | Duct sealing in homes with poorly sealed ducts and heat pumps | 13.8% | 40.0% | 0.24 |
| 6119 | Duct Sealing: 25% to 16.25% (CFM @25Pa) | MF | NLI | Retrofit | 2,166.0 | 4.9% | 106.0 | 0.074 | 0.65 | 20 | \$744.00 | Duct sealing in homes with adequately sealed ducts and heat pumps | 13.8% | 70.0% | 0.13 |
| 6120 | Duct Insulation (R-0 to R-8) | MF | NLI | Retrofit | 2,424.0 | 12.2% | 296.0 | 0.207 | 0.65 | 20 | \$453.60 | Installation of duct insulation in homes with poorly insulated ducts and heat pumps | 13.8% | 26.0% | 0.60 |
| 6121 | Window Film (U=0.51, SHGC=0.24) | MF | NLI | Retrofit | 2,629.0 | 20.0% | 527.0 | 0.282 | 0.65 | 10 | \$1,140.00 | Installation of window film on single-pane windows in homes with heat pumps | 13.8% | 89.0% | 0.29 |
| 6122 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | MF | NLI | Retrofit | 2,166.0 | 9.5% | 205.0 | 0.113 | 0.65 | 20 | \$2,162.74 | Installation of ENERGY STAR windows to replace single-pane windows in homes with heat pumps | 13.8% | 89.0% | 0.08 |
| 6123 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | MF | ALL | ROB | 2,166.0 | 9.5% | 205.0 | 0.113 | 0.65 | 20 | \$87.51 | Installation of ENERGY STAR windows instead of double-pane windows in homes with heat pumps | 13.8% | 37.0% | 2.00 |
| 6124 | Low Income Weatherization Package | MF | LI | Retrofit | 2,493.0 | 18.1% | 450.0 | 0.121 | 0.65 | 20 | \$1,828.02 | Installation of package of weatherization measures in homes with heat pumps | 13.8% | 55.7% | 0.18 |
| 6125 | Window Film (U=0.51, SHGC=0.24) | MF | LI | Retrofit | 2,629.0 | 20.0% | 527.0 | 0.282 | 0.65 | 10 | \$1,140.00 | Installation of window film on single-pane windows in homes with heat pumps | 13.8% | 89.0% | 0.29 |
| 6126 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | MF | LI | Retrofit | 2,166.0 | 9.5% | 205.0 | 0.113 | 0.65 | 20 | \$2,162.74 | Installation of ENERGY STAR windows to replace single-pane windows in homes with heat pumps | 13.8% | 89.0% | 0.08 |
| 6127 | Residential New Construction Tier 1 (15% more efficient) | MF | ALL | NC | 1,827.0 | 21.5% | 393.0 | 0.119 | 0.65 | 20 | \$2,561.00 | New home built 15% more efficient than code - in homes with heat pumps | 30.0% | 0.0% | 0.11 |
| 6128 | Residential New Construction Tier 2 (30% more efficient) | MF | ALL | NC | 1,827.0 | 24.7% | 452.0 | 0.131 | 0.65 | 20 | \$3,345.67 | New home built 30% more efficient than code - in homes with heat pumps | 30.0% | 0.0% | 0.10 |
| 6129 | Exterior Wall Insulation: R-0 to R-13 | MF | NLI | Retrofit | 5,414.0 | 39.5% | 2,137.0 | 0.299 | 0.65 | 25 | \$1,509.60 | Addition of exterior wall insulation in poorly homes with non-heat pump electric heating | 16.2% | 72.7% | 0.92 |
| 6130 | Exterior Wall Insulation: R-0 to R-19 | MF | NLI | Retrofit | 5,414.0 | 44.4% | 2,404.0 | 0.349 | 0.65 | 25 | \$1,917.60 | Addition of exterior wall insulation in poorly homes with non-heat pump electric heating | 16.2% | 72.7% | 0.81 |
| 6131 | Air Sealing: 13 ACH50 to 9 ACH50 | MF | NLI | Retrofit | 3,912.0 | 15.2% | 595.0 | 0.035 | 0.65 | 15 | \$385.00 | Air sealing in poorly sealed homes with non-heat pump electric heating | 16.2% | 85.0% | 0.94 |
| 6132 | Air Sealing: 9 ACH50 to 7 ACH50 | MF | NLI | Retrofit | 3,317.0 | 8.4% | 277.0 | 0.019 | 0.65 | 15 | \$385.00 | Air sealing in adequately sealed homes with non-heat pump electric heating | 16.2% | 43.0% | 0.44 |
| 6133 | Duct Sealing: 38.5% to 25% (CFM @25Pa) | MF | NLI | Retrofit | 3,543.0 | 6.4% | 226.0 | 0.139 | 0.65 | 20 | \$744.00 | Duct sealing in homes with poorly sealed ducts and electric furnaces | 9.3% | 40.0% | 0.27 |
| 6134 | Duct Sealing: 25% to 16.25% (CFM @25Pa) | MF | NLI | Retrofit | 3,317.0 | 4.3% | 143.0 | 0.081 | 0.65 | 20 | \$744.00 | Duct sealing in homes with adequately sealed ducts and electric furnaces | 9.3% | 70.0% | 0.17 |
| 6135 | Duct Insulation (R-0 to R-8) | MF | NLI | Retrofit | 3,564.0 | 8.1% | 290.0 | 0.218 | 0.65 | 20 | \$453.60 | Installation of duct insulation in homes with poorly insulated ducts and electric furnaces | 9.3% | 26.0% | 0.61 |
| 6136 | Window Film (U=0.51, SHGC=0.24) | MF | NLI | Retrofit | 4,229.0 | 18.3% | 774.0 | 0.344 | 0.65 | 10 | \$1,140.00 | Installation of window film on single-pane windows in homes with non-heat pump electric heating | 16.2% | 89.0% | 0.40 |
| 6137 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | MF | NLI | Retrofit | 3,317.0 | 9.7% | 321.0 | 0.132 | 0.65 | 20 | \$2,162.74 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-heat pump electric heating | 16.2% | 89.0% | 0.12 |
| 6138 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | MF | ALL | ROB | 3,317.0 | 9.7% | 321.0 | 0.132 | 0.65 | 20 | \$87.51 | Installation of ENERGY STAR windows instead of double-pane windows in homes with non-heat pump electric heating | 16.2% | 37.0% | 2.87 |
| 6139 | Low Income Weatherization Package | MF | LI | Retrofit | 4,109.0 | 23.6% | 970.0 | 0.148 | 0.65 | 20 | \$1,828.02 | Installation of package of weatherization measures in homes with non-heat pump electric heating | 16.2% | 55.7% | 0.35 |
| 6140 | Window Film (U=0.51, SHGC=0.24) | MF | LI | Retrofit | 4,229.0 | 18.3% | 774.0 | 0.344 | 0.65 | 10 | \$1,140.00 | Installation of window film on single-pane windows in homes with non-heat pump electric heating | 16.2% | 89.0% | 0.40 |

Measure Assumptions - PECO

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|---|-----------------|---------------|-------------------|
| 6141 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | MF | LI | Retrofit | 3,317.0 | 9.7% | 321.0 | 0.132 | 0.65 | 20 | \$2,162.74 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-heat pump electric heating | 16.2% | 89.0% | 0.12 |
| 6142 | Exterior Wall Insulation: R-0 to R-13 | MF | NLI | Retrofit | 2,368.0 | 11.9% | 282.0 | 0.301 | 0.65 | 25 | \$1,509.60 | Addition of exterior wall insulation in poorly homes with non-electric heating | 70.0% | 72.7% | 0.22 |
| 6143 | Exterior Wall Insulation: R-0 to R-19 | MF | NLI | Retrofit | 2,368.0 | 13.5% | 319.0 | 0.344 | 0.65 | 25 | \$1,917.60 | Addition of exterior wall insulation in poorly homes with non-electric heating | 70.0% | 72.7% | 0.20 |
| 6144 | Air Sealing: 13 ACH50 to 9 ACH50 | MF | NLI | Retrofit | 2,113.0 | 1.1% | 24.0 | 0.036 | 0.65 | 15 | \$385.00 | Air sealing in poorly sealed homes with non-electric heating | 70.0% | 85.0% | 0.09 |
| 6145 | Air Sealing: 9 ACH50 to 7 ACH50 | MF | NLI | Retrofit | 2,089.0 | 0.4% | 9.0 | 0.019 | 0.65 | 15 | \$385.00 | Air sealing in adequately sealed homes with non-electric heating | 70.0% | 43.0% | 0.04 |
| 6146 | Duct Sealing: 38.5% to 25% (CFM @25Pa) | MF | NLI | Retrofit | 2,225.0 | 6.1% | 136.0 | 0.142 | 0.65 | 20 | \$744.00 | Duct sealing in homes with poorly sealed ducts and non-electric furnaces | 46.7% | 40.0% | 0.21 |
| 6147 | Duct Sealing: 25% to 16.25% (CFM @25Pa) | MF | NLI | Retrofit | 2,089.0 | 4.0% | 84.0 | 0.083 | 0.65 | 20 | \$744.00 | Duct sealing in homes with adequately sealed ducts and non-electric furnaces | 46.7% | 70.0% | 0.13 |
| 6148 | Duct Insulation (R-0 to R-8) | MF | NLI | Retrofit | 2,286.0 | 10.0% | 229.0 | 0.285 | 0.65 | 20 | \$453.60 | Installation of duct insulation in homes with poorly insulated ducts and non-electric furnaces | 46.7% | 26.0% | 0.64 |
| 6149 | Window Film (U=0.51, SHGC=0.24) | MF | NLI | Retrofit | 2,283.0 | 21.5% | 490.0 | 0.337 | 0.65 | 10 | \$1,140.00 | Installation of window film on single-pane windows in homes with non-electric heating | 70.0% | 89.0% | 0.31 |
| 6150 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | MF | NLI | Retrofit | 2,089.0 | 8.2% | 172.0 | 0.133 | 0.65 | 20 | \$2,162.74 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-electric heating | 70.0% | 89.0% | 0.08 |
| 6151 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | MF | ALL | ROB | 2,089.0 | 8.2% | 172.0 | 0.133 | 0.65 | 20 | \$87.51 | Installation of ENERGY STAR windows instead of double-pane windows in homes with non-electric heating | 70.0% | 37.0% | 2.04 |
| 6152 | Low Income Weatherization Package | MF | LI | Retrofit | 2,140.0 | 5.2% | 112.0 | 0.120 | 0.65 | 20 | \$1,417.36 | Installation of package of weatherization measures in homes with non-electric heating | 70.0% | 55.7% | 0.09 |
| 6153 | Window Film (U=0.51, SHGC=0.24) | MF | LI | Retrofit | 2,283.0 | 21.5% | 490.0 | 0.337 | 0.65 | 10 | \$1,140.00 | Installation of window film on single-pane windows in homes with non-electric heating | 70.0% | 89.0% | 0.31 |
| 6154 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | MF | LI | Retrofit | 2,089.0 | 8.2% | 172.0 | 0.133 | 0.65 | 20 | \$2,162.74 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-electric heating | 70.0% | 89.0% | 0.08 |
| 6155 | Residential New Construction Tier 1 (15% more efficient) | MF | ALL | NC | 1,480.0 | 7.5% | 111.0 | 0.140 | 0.65 | 20 | \$2,561.00 | New home built 15% more efficient than code - in homes with non-electric heating | 70.0% | 0.0% | 0.06 |
| 6156 | Residential New Construction Tier 2 (30% more efficient) | MF | ALL | NC | 1,480.0 | 22.2% | 328.0 | 0.258 | 0.65 | 20 | \$4,302.19 | New home built 30% more efficient than code - in homes with non-electric heating | 70.0% | 0.0% | 0.08 |
| 7000 | Miscellaneous | | | | | | | | | | | | | | |
| 7001 | Indirect Feedback (Home Energy Reports) - homes with ASHP | SFD | All | Retrofit | 17,066.0 | 1.5% | 256.0 | 0.0292 | 0.65 | 1 | \$0.00 | Home energy reports in homes with heat pumps | 6.0% | 0.0% | 5.00 |
| 7002 | Direct (Real Time) Feedback - homes with ASHP | SFD | All | Retrofit | 17,066.0 | 9.2% | 1,570.1 | 0.1792 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with heat pumps | 6.0% | 5.0% | 2.17 |
| 7003 | Indirect Feedback (Home Energy Reports) - homes with non-ASHP electric heating | SFD | All | Retrofit | 24,833.0 | 1.5% | 372.5 | 0.0425 | 0.65 | 1 | \$0.00 | Home energy reports in homes with non-heat pump electric heating | 7.0% | 0.0% | 5.00 |
| 7004 | Direct (Real Time) Feedback - homes with non-ASHP electric heating | SFD | All | Retrofit | 24,833.0 | 9.2% | 2,284.6 | 0.2608 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with non-heat pump electric heating | 7.0% | 5.0% | 3.16 |
| 7005 | Indirect Feedback (Home Energy Reports) - homes with gas heating | SFD | All | Retrofit | 9,467.0 | 1.5% | 142.0 | 0.0162 | 0.65 | 1 | \$0.00 | Home energy reports in homes with non-electric heating | 87.0% | 0.0% | 5.00 |
| 7006 | Direct (Real Time) Feedback - homes with gas heating | SFD | All | Retrofit | 9,467.0 | 9.2% | 871.0 | 0.0994 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with non-electric heating | 87.0% | 5.0% | 1.34 |
| 7007 | Variable Speed Pool Pumps (with Load Shifting Option) | SFD | All | Retrofit | 706.6 | 84.0% | 593.5 | 0.3908 | 1.00 | 10 | \$750.00 | Installation of a variable speed pool pump to replace a constant speed pool pump | 7.0% | 25.0% | 0.62 |
| 7008 | Indirect Feedback (Home Energy Reports) - homes with ASHP | SFD | All | NC | 15,322.0 | 1.5% | 229.8 | 0.0262 | 0.65 | 1 | \$0.00 | Home energy reports in homes with heat pumps | 13.0% | 0.0% | 5.00 |
| 7009 | Direct (Real Time) Feedback - homes with ASHP | SFD | All | NC | 15,322.0 | 9.2% | 1,409.6 | 0.1609 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with heat pumps | 13.0% | 0.0% | 1.95 |
| 7010 | Indirect Feedback (Home Energy Reports) - homes with gas heating | SFD | All | NC | 8,822.0 | 1.5% | 132.3 | 0.0151 | 0.65 | 1 | \$0.00 | Home energy reports in homes with non-electric heating | 87.0% | 0.0% | 5.00 |
| 7011 | Direct (Real Time) Feedback - homes with gas heating | SFD | All | NC | 8,822.0 | 9.2% | 811.6 | 0.0927 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with non-electric heating | 87.0% | 0.0% | 1.25 |
| 7012 | Variable Speed Pool Pumps (with Load Shifting Option) | SFD | All | NC | 706.6 | 84.0% | 593.5 | 0.3908 | 1.00 | 10 | \$750.00 | Installation of a variable speed pool pump to replace a constant speed pool pump | 7.0% | 0.0% | 0.62 |
| 7013 | Indirect Feedback (Home Energy Reports) - homes with ASHP | SFA | All | Retrofit | 13,432.0 | 1.5% | 201.5 | 0.0230 | 0.65 | 1 | \$0.00 | Home energy reports in homes with heat pumps | 6.0% | 0.0% | 5.00 |
| 7014 | Direct (Real Time) Feedback - homes with ASHP | SFA | All | Retrofit | 13,432.0 | 9.2% | 1,235.7 | 0.1411 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with heat pumps | 6.0% | 5.0% | 1.71 |
| 7015 | Indirect Feedback (Home Energy Reports) - homes with non-ASHP electric heating | SFA | All | Retrofit | 18,444.0 | 1.5% | 276.7 | 0.0316 | 0.65 | 1 | \$0.00 | Home energy reports in homes with non-heat pump electric heating | 7.0% | 0.0% | 5.00 |
| 7016 | Direct (Real Time) Feedback - homes with non-ASHP electric heating | SFA | All | Retrofit | 18,444.0 | 9.2% | 1,696.8 | 0.1937 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with non-heat pump electric heating | 7.0% | 5.0% | 2.34 |
| 7017 | Indirect Feedback (Home Energy Reports) - homes with gas heating | SFA | All | Retrofit | 7,831.0 | 1.5% | 117.5 | 0.0134 | 0.65 | 1 | \$0.00 | Home energy reports in homes with non-electric heating | 87.0% | 0.0% | 5.00 |
| 7018 | Direct (Real Time) Feedback - homes with gas heating | SFA | All | Retrofit | 7,831.0 | 9.2% | 720.5 | 0.0822 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with non-electric heating | 87.0% | 5.0% | 1.11 |
| 7019 | Indirect Feedback (Home Energy Reports) - homes with ASHP | SFA | All | NC | 13,001.0 | 1.5% | 195.0 | 0.0223 | 0.65 | 1 | \$0.00 | Home energy reports in homes with heat pumps | 13.0% | 0.0% | 5.00 |
| 7020 | Direct (Real Time) Feedback - homes with ASHP | SFA | All | NC | 13,001.0 | 9.2% | 1,196.1 | 0.1365 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with heat pumps | 13.0% | 0.0% | 1.65 |
| 7021 | Indirect Feedback (Home Energy Reports) - homes with gas heating | SFA | All | NC | 7,556.0 | 1.5% | 113.3 | 0.0129 | 0.65 | 1 | \$0.00 | Home energy reports in homes with non-electric heating | 87.0% | 0.0% | 5.00 |

Measure Assumptions - PECO

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|--|-----------------|---------------|-------------------|
| 7022 | Direct (Real Time) Feedback - homes with gas heating | SFA | All | NC | 7,556.0 | 9.2% | 695.2 | 0.0794 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with non-electric heating | 87.0% | 0.0% | 1.07 |
| 7023 | Indirect Feedback (Home Energy Reports) - homes with ASHP | MF | All | Retrofit | 10,015.0 | 1.5% | 150.2 | 0.0171 | 0.65 | 1 | \$0.00 | Home energy reports in homes with heat pumps | 13.8% | 0.0% | 5.00 |
| 7024 | Direct (Real Time) Feedback - homes with ASHP | MF | All | Retrofit | 10,015.0 | 9.2% | 921.4 | 0.1052 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with heat pumps | 13.8% | 5.0% | 1.27 |
| 7025 | Indirect Feedback (Home Energy Reports) - homes with non-ASHP electric heating | MF | All | Retrofit | 11,166.0 | 1.5% | 167.5 | 0.0191 | 0.65 | 1 | \$0.00 | Home energy reports in homes with non-heat pump electric heating | 16.2% | 0.0% | 5.00 |
| 7026 | Direct (Real Time) Feedback - homes with non-ASHP electric heating | MF | All | Retrofit | 11,166.0 | 9.2% | 1,027.3 | 0.1173 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with non-heat pump electric heating | 16.2% | 5.0% | 1.42 |
| 7027 | Indirect Feedback (Home Energy Reports) - homes with gas heating | MF | All | Retrofit | 6,972.0 | 1.5% | 104.6 | 0.0119 | 0.65 | 1 | \$0.00 | Home energy reports in homes with non-electric heating | 70.0% | 0.0% | 5.00 |
| 7028 | Direct (Real Time) Feedback - homes with gas heating | MF | All | Retrofit | 6,972.0 | 9.2% | 641.4 | 0.0732 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with non-electric heating | 70.0% | 5.0% | 0.99 |
| 7029 | Indirect Feedback (Home Energy Reports) - homes with ASHP | MF | All | NC | 9,610.0 | 1.5% | 144.2 | 0.0165 | 0.65 | 1 | \$0.00 | Home energy reports in homes with heat pumps | 30.0% | 0.0% | 5.00 |
| 7030 | Direct (Real Time) Feedback - homes with ASHP | MF | All | NC | 9,610.0 | 9.2% | 884.1 | 0.1009 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with heat pumps | 30.0% | 0.0% | 1.22 |
| 7031 | Indirect Feedback (Home Energy Reports) - homes with gas heating | MF | All | NC | 6,492.0 | 1.5% | 97.4 | 0.0111 | 0.65 | 1 | \$0.00 | Home energy reports in homes with non-electric heating | 70.0% | 0.0% | 5.00 |
| 7032 | Direct (Real Time) Feedback - homes with gas heating | MF | All | NC | 6,492.0 | 9.2% | 597.3 | 0.0682 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with non-electric heating | 70.0% | 0.0% | 0.92 |

Measure Assumptions - PPL

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|---|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|---|-----------------|---------------|-------------------|
| 1000 | Lighting | | | | | | | | | | | | | | |
| 1001 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | NLI | ROB | 34.8 | 65.8% | 22.9 | 0.030 | 0.10 | 5 | \$0.61 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1892.2% | 0.0% | 11.95 |
| 1002 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | NLI | ROB | 63.2 | 69.7% | 44.0 | 0.057 | 0.10 | 5 | \$1.64 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 360.4% | 0.0% | 7.49 |
| 1003 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | NLI | ROB | 34.8 | 78.5% | 27.3 | 0.036 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1892.2% | 0.0% | 3.51 |
| 1004 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | NLI | ROB | 63.2 | 76.3% | 48.2 | 0.063 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 360.4% | 0.0% | 2.76 |
| 1005 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | NLI | ROB | 32.2 | 75.0% | 24.1 | 0.032 | 0.10 | 5 | \$2.71 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1262.8% | 0.0% | 2.79 |
| 1006 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | NLI | ROB | 60.4 | 68.3% | 41.2 | 0.054 | 0.10 | 5 | \$5.26 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 0.0% | 0.0% | 2.49 |
| 1007 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | NLI | ROB | 32.2 | 83.5% | 26.9 | 0.035 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1262.8% | 0.0% | 2.54 |
| 1008 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | NLI | ROB | 60.4 | 75.2% | 45.4 | 0.059 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 0.0% | 0.0% | 2.38 |
| 1009 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | SFD | NLI | ROB | 34.8 | 78.5% | 27.3 | 0.036 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | 1254.1% | 100.0% | 3.51 |
| 1010 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | SFD | NLI | ROB | 63.2 | 76.3% | 48.2 | 0.063 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | 238.9% | 100.0% | 2.76 |
| 1011 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | SFD | NLI | ROB | 32.2 | 83.5% | 26.9 | 0.035 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | 67.9% | 100.0% | 2.54 |
| 1012 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | SFD | NLI | ROB | 60.4 | 75.2% | 45.4 | 0.059 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | 0.0% | 100.0% | 2.38 |
| 1013 | CFL Reflector Replacing 65W/75W Reflector | SFD | NLI | ROB | 54.1 | 74.4% | 40.3 | 0.053 | 0.10 | 5 | \$2.15 | CFL Reflector Replacing 65W/75W Reflector | 605.4% | 0.0% | 7.10 |
| 1014 | LED Reflector Replacing 65W/75W Reflector | SFD | NLI | ROB | 54.1 | 83.8% | 45.3 | 0.059 | 0.10 | 15 | \$9.48 | LED Reflector Replacing 65W/75W Reflector | 605.4% | 0.0% | 4.92 |
| 1015 | LED Reflector Replacing CFL Reflector | SFD | NLI | ROB | 54.1 | 83.8% | 45.3 | 0.059 | 0.10 | 15 | \$9.48 | LED Reflector Replacing CFL Reflector | 63.9% | 100.0% | 4.92 |
| 1016 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | SFD | NLI | ROB | 48.2 | 69.6% | 33.5 | 0.037 | 0.10 | 5 | \$1.35 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | 501.2% | 0.0% | 8.32 |
| 1017 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | SFD | NLI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | 501.2% | 0.0% | 4.24 |
| 1018 | Exterior LED Bulb Replacing Exterior CFL Bulb | SFD | NLI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior CFL Bulb | 169.4% | 100.0% | 4.24 |
| 1019 | Residential Occupancy Sensors | SFD | ALL | Retrofit | 96.5 | 30.0% | 28.9 | 0.028 | 0.10 | 10 | \$63.50 | Residential Occupancy Sensors | 150.0% | 5.0% | 0.20 |
| 1020 | Electroluminescent Nightlight | SFD | NLI | ROB | 29.7 | 99.1% | 29.5 | 0.007 | 0.00 | 8 | \$1.92 | Replaces standard nightlighting with electroluminescent nightlight | 79.0% | 32.0% | 4.90 |
| 1021 | LED Nightlight | SFD | NLI | ROB | 29.7 | 85.7% | 25.5 | 0.006 | 0.00 | 8 | \$2.51 | Replaces standard nightlighting with LED nightlight | 79.0% | 32.0% | 3.24 |
| 1022 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | LI | ROB | 34.8 | 65.8% | 22.9 | 0.030 | 0.10 | 5 | \$0.61 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1892.2% | 0.0% | 11.95 |
| 1023 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | LI | ROB | 63.2 | 69.7% | 44.0 | 0.057 | 0.10 | 5 | \$1.64 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 360.4% | 0.0% | 7.49 |
| 1024 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | LI | ROB | 34.8 | 78.5% | 27.3 | 0.036 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1892.2% | 0.0% | 3.51 |
| 1025 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | LI | ROB | 63.2 | 76.3% | 48.2 | 0.063 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 360.4% | 0.0% | 2.76 |
| 1026 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | LI | ROB | 32.2 | 75.0% | 24.1 | 0.032 | 0.10 | 5 | \$2.71 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1262.8% | 0.0% | 2.79 |
| 1027 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | LI | ROB | 60.4 | 68.3% | 41.2 | 0.054 | 0.10 | 5 | \$5.26 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 0.0% | 0.0% | 2.49 |
| 1028 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | LI | ROB | 32.2 | 83.5% | 26.9 | 0.035 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1262.8% | 0.0% | 2.54 |
| 1029 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | LI | ROB | 60.4 | 75.2% | 45.4 | 0.059 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 0.0% | 0.0% | 2.38 |
| 1030 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | SFD | LI | ROB | 34.8 | 78.5% | 27.3 | 0.036 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | 1254.1% | 100.0% | 3.51 |
| 1031 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | SFD | LI | ROB | 63.2 | 76.3% | 48.2 | 0.063 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | 238.9% | 100.0% | 2.76 |
| 1032 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | SFD | LI | ROB | 32.2 | 83.5% | 26.9 | 0.035 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | 67.9% | 100.0% | 2.54 |
| 1033 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | SFD | LI | ROB | 60.4 | 75.2% | 45.4 | 0.059 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | 0.0% | 100.0% | 2.38 |
| 1034 | CFL Reflector Replacing 65W/75W Reflector | SFD | LI | ROB | 54.1 | 74.4% | 40.3 | 0.053 | 0.10 | 5 | \$2.15 | CFL Reflector Replacing 65W/75W Reflector | 605.4% | 0.0% | 7.10 |
| 1035 | LED Reflector Replacing 65W/75W Reflector | SFD | LI | ROB | 54.1 | 83.8% | 45.3 | 0.059 | 0.10 | 15 | \$9.48 | LED Reflector Replacing 65W/75W Reflector | 605.4% | 0.0% | 4.92 |
| 1036 | LED Reflector Replacing CFL Reflector | SFD | LI | ROB | 54.1 | 83.8% | 45.3 | 0.059 | 0.10 | 15 | \$9.48 | LED Reflector Replacing CFL Reflector | 63.9% | 100.0% | 4.92 |
| 1037 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | SFD | LI | ROB | 48.2 | 69.6% | 33.5 | 0.037 | 0.10 | 5 | \$1.35 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | 501.2% | 0.0% | 8.32 |
| 1038 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | SFD | LI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | 501.2% | 0.0% | 4.24 |
| 1039 | Exterior LED Bulb Replacing Exterior CFL Bulb | SFD | LI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior CFL Bulb | 169.4% | 100.0% | 4.24 |
| 1040 | LED Nightlight | SFD | LI | ROB | 29.7 | 85.7% | 25.5 | 0.006 | 0.00 | 8 | \$2.51 | Replaces standard nightlighting with LED nightlight | 79.0% | 32.0% | 3.24 |
| 1041 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | ALL | NC | 34.8 | 65.8% | 22.9 | 0.030 | 0.10 | 5 | \$0.61 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 3159.0% | 0.0% | 11.95 |

Measure Assumptions - PPL

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|---|--------------------------|---------------|-------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|---|-----------------|---------------|-------------------|
| 1042 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | ALL | NC | 63.2 | 69.7% | 44.0 | 0.057 | 0.10 | 5 | \$1.64 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 601.7% | 0.0% | 7.49 |
| 1043 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | ALL | NC | 34.8 | 78.5% | 27.3 | 0.036 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 3159.0% | 0.0% | 3.51 |
| 1044 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | ALL | NC | 63.2 | 76.3% | 48.2 | 0.063 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 601.7% | 0.0% | 2.76 |
| 1045 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | ALL | NC | 32.2 | 75.0% | 24.1 | 0.032 | 0.10 | 5 | \$2.71 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1330.7% | 0.0% | 2.79 |
| 1046 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | ALL | NC | 60.4 | 68.3% | 41.2 | 0.054 | 0.10 | 5 | \$5.26 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 0.0% | 0.0% | 2.49 |
| 1047 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFD | ALL | NC | 32.2 | 83.5% | 26.9 | 0.035 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1330.7% | 0.0% | 2.54 |
| 1048 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFD | ALL | NC | 60.4 | 75.2% | 45.4 | 0.059 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 0.0% | 0.0% | 2.38 |
| 1049 | CFL Reflector Replacing 65W/75W Reflector | SFD | ALL | NC | 54.1 | 74.4% | 40.3 | 0.053 | 0.10 | 5 | \$2.15 | CFL Reflector Replacing 65W/75W Reflector | 694.3% | 0.0% | 7.10 |
| 1050 | LED Reflector Replacing 65W/75W Reflector | SFD | ALL | NC | 54.1 | 83.8% | 45.3 | 0.059 | 0.10 | 15 | \$9.48 | LED Reflector Replacing 65W/75W Reflector | 694.3% | 0.0% | 4.92 |
| 1051 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | SFD | ALL | NC | 48.2 | 69.6% | 33.5 | 0.037 | 0.10 | 5 | \$1.35 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | 700.0% | 0.0% | 8.32 |
| 1052 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | SFD | ALL | NC | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | 700.0% | 0.0% | 4.24 |
| 1053 | Residential Occupancy Sensors | SFD | ALL | NC | 96.5 | 30.0% | 28.9 | 0.028 | 0.10 | 10 | \$63.50 | Residential Occupancy Sensors | 150.0% | 0.0% | 0.20 |
| 1054 | Electroluminescent Nightlight | SFD | ALL | NC | 29.7 | 99.1% | 29.5 | 0.007 | 0.00 | 8 | \$1.92 | Replaces standard nightlighting with electroluminescent nightlight | 79.0% | 0.0% | 4.90 |
| 1055 | LED Nightlight | SFD | ALL | NC | 29.7 | 85.7% | 25.5 | 0.006 | 0.00 | 8 | \$2.51 | Replaces standard nightlighting with LED nightlight | 79.0% | 0.0% | 3.24 |
| 1056 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | NLI | ROB | 34.8 | 65.8% | 22.9 | 0.030 | 0.10 | 5 | \$0.61 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1271.4% | 0.0% | 11.95 |
| 1057 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | NLI | ROB | 63.2 | 69.7% | 44.0 | 0.057 | 0.10 | 5 | \$1.64 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 190.0% | 0.0% | 7.49 |
| 1058 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | NLI | ROB | 34.8 | 78.5% | 27.3 | 0.036 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1271.4% | 0.0% | 3.51 |
| 1059 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | NLI | ROB | 63.2 | 76.3% | 48.2 | 0.063 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 190.0% | 0.0% | 2.76 |
| 1060 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | NLI | ROB | 32.2 | 75.0% | 24.1 | 0.032 | 0.10 | 5 | \$2.71 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 676.4% | 0.0% | 2.79 |
| 1061 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | NLI | ROB | 60.4 | 68.3% | 41.2 | 0.054 | 0.10 | 5 | \$5.26 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 28.2% | 0.0% | 2.49 |
| 1062 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | NLI | ROB | 32.2 | 83.5% | 26.9 | 0.035 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 676.4% | 0.0% | 2.54 |
| 1063 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | NLI | ROB | 60.4 | 75.2% | 45.4 | 0.059 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 28.2% | 0.0% | 2.38 |
| 1064 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | SFA | NLI | ROB | 34.8 | 78.5% | 27.3 | 0.036 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | 842.6% | 100.0% | 3.51 |
| 1065 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | SFA | NLI | ROB | 63.2 | 76.3% | 48.2 | 0.063 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | 125.9% | 100.0% | 2.76 |
| 1066 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | SFA | NLI | ROB | 32.2 | 83.5% | 26.9 | 0.035 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | 36.4% | 100.0% | 2.54 |
| 1067 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | SFA | NLI | ROB | 60.4 | 75.2% | 45.4 | 0.059 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | 1.5% | 100.0% | 2.38 |
| 1068 | CFL Reflector Replacing 65W/75W Reflector | SFA | NLI | ROB | 54.1 | 74.4% | 40.3 | 0.053 | 0.10 | 5 | \$2.15 | CFL Reflector Replacing 65W/75W Reflector | 308.3% | 0.0% | 7.10 |
| 1069 | LED Reflector Replacing 65W/75W Reflector | SFA | NLI | ROB | 54.1 | 83.8% | 45.3 | 0.059 | 0.10 | 15 | \$9.48 | LED Reflector Replacing 65W/75W Reflector | 308.3% | 0.0% | 4.92 |
| 1070 | LED Reflector Replacing CFL Reflector | SFA | NLI | ROB | 54.1 | 83.8% | 45.3 | 0.059 | 0.10 | 15 | \$9.48 | LED Reflector Replacing CFL Reflector | 32.5% | 100.0% | 4.92 |
| 1071 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | SFA | NLI | ROB | 48.2 | 69.6% | 33.5 | 0.037 | 0.10 | 5 | \$1.35 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | 143.2% | 0.0% | 8.32 |
| 1072 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | SFA | NLI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | 143.2% | 0.0% | 4.24 |
| 1073 | Exterior LED Bulb Replacing Exterior CFL Bulb | SFA | NLI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior CFL Bulb | 48.4% | 100.0% | 4.24 |
| 1074 | Residential Occupancy Sensors | SFA | ALL | Retrofit | 96.5 | 30.0% | 28.9 | 0.028 | 0.10 | 10 | \$63.50 | Residential Occupancy Sensors | 150.0% | 5.0% | 0.20 |
| 1075 | Electroluminescent Nightlight | SFA | NLI | ROB | 29.7 | 99.1% | 29.5 | 0.007 | 0.00 | 8 | \$1.92 | Replaces standard nightlighting with electroluminescent nightlight | 42.0% | 32.0% | 4.90 |
| 1076 | LED Nightlight | SFA | NLI | ROB | 29.7 | 85.7% | 25.5 | 0.006 | 0.00 | 8 | \$2.51 | Replaces standard nightlighting with LED nightlight | 42.0% | 32.0% | 3.24 |
| 1077 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | LI | ROB | 34.8 | 65.8% | 22.9 | 0.030 | 0.10 | 5 | \$0.61 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1271.4% | 0.0% | 11.95 |
| 1078 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | LI | ROB | 63.2 | 69.7% | 44.0 | 0.057 | 0.10 | 5 | \$1.64 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 190.0% | 0.0% | 7.49 |
| 1079 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | LI | ROB | 34.8 | 78.5% | 27.3 | 0.036 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1271.4% | 0.0% | 3.51 |
| 1080 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | LI | ROB | 63.2 | 76.3% | 48.2 | 0.063 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 190.0% | 0.0% | 2.76 |
| 1081 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | LI | ROB | 32.2 | 75.0% | 24.1 | 0.032 | 0.10 | 5 | \$2.71 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 676.4% | 0.0% | 2.79 |

Measure Assumptions - PPL

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|---|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|---|-----------------|---------------|-------------------|
| 1082 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | LI | ROB | 60.4 | 68.3% | 41.2 | 0.054 | 0.10 | 5 | \$5.26 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 28.2% | 0.0% | 2.49 |
| 1083 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | LI | ROB | 32.2 | 83.5% | 26.9 | 0.035 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 676.4% | 0.0% | 2.54 |
| 1084 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | LI | ROB | 60.4 | 75.2% | 45.4 | 0.059 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 28.2% | 0.0% | 2.38 |
| 1085 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | SFA | LI | ROB | 34.8 | 78.5% | 27.3 | 0.036 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | 842.6% | 100.0% | 3.51 |
| 1086 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | SFA | LI | ROB | 63.2 | 76.3% | 48.2 | 0.063 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | 125.9% | 100.0% | 2.76 |
| 1087 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | SFA | LI | ROB | 32.2 | 83.5% | 26.9 | 0.035 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | 36.4% | 100.0% | 2.54 |
| 1088 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | SFA | LI | ROB | 60.4 | 75.2% | 45.4 | 0.059 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | 1.5% | 100.0% | 2.38 |
| 1089 | CFL Reflector Replacing 65W/75W Reflector | SFA | LI | ROB | 54.1 | 74.4% | 40.3 | 0.053 | 0.10 | 5 | \$2.15 | CFL Reflector Replacing 65W/75W Reflector | 308.3% | 0.0% | 7.10 |
| 1090 | LED Reflector Replacing 65W/75W Reflector | SFA | LI | ROB | 54.1 | 83.8% | 45.3 | 0.059 | 0.10 | 15 | \$9.48 | LED Reflector Replacing 65W/75W Reflector | 308.3% | 0.0% | 4.92 |
| 1091 | LED Reflector Replacing CFL Reflector | SFA | LI | ROB | 54.1 | 83.8% | 45.3 | 0.059 | 0.10 | 15 | \$9.48 | LED Reflector Replacing CFL Reflector | 32.5% | 100.0% | 4.92 |
| 1092 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | SFA | LI | ROB | 48.2 | 69.6% | 33.5 | 0.037 | 0.10 | 5 | \$1.35 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | 143.2% | 0.0% | 8.32 |
| 1093 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | SFA | LI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | 143.2% | 0.0% | 4.24 |
| 1094 | Exterior LED Bulb Replacing Exterior CFL Bulb | SFA | LI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior CFL Bulb | 48.4% | 100.0% | 4.24 |
| 1095 | LED Nightlight | SFA | LI | ROB | 29.7 | 85.7% | 25.5 | 0.006 | 0.00 | 8 | \$2.51 | Replaces standard nightlighting with LED nightlight | 42.0% | 32.0% | 3.24 |
| 1096 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | ALL | NC | 34.8 | 65.8% | 22.9 | 0.030 | 0.10 | 5 | \$0.61 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 2122.5% | 0.0% | 11.95 |
| 1097 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | ALL | NC | 63.2 | 69.7% | 44.0 | 0.057 | 0.10 | 5 | \$1.64 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 317.2% | 0.0% | 7.49 |
| 1098 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | ALL | NC | 34.8 | 78.5% | 27.3 | 0.036 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 2122.5% | 0.0% | 3.51 |
| 1099 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | ALL | NC | 63.2 | 76.3% | 48.2 | 0.063 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 317.2% | 0.0% | 2.76 |
| 1100 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | ALL | NC | 32.2 | 75.0% | 24.1 | 0.032 | 0.10 | 5 | \$2.71 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 712.8% | 0.0% | 2.79 |
| 1101 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | ALL | NC | 60.4 | 68.3% | 41.2 | 0.054 | 0.10 | 5 | \$5.26 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 29.7% | 0.0% | 2.49 |
| 1102 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | SFA | ALL | NC | 32.2 | 83.5% | 26.9 | 0.035 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 712.8% | 0.0% | 2.54 |
| 1103 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | SFA | ALL | NC | 60.4 | 75.2% | 45.4 | 0.059 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 29.7% | 0.0% | 2.38 |
| 1104 | CFL Reflector Replacing 65W/75W Reflector | SFA | ALL | NC | 54.1 | 74.4% | 40.3 | 0.053 | 0.10 | 5 | \$2.15 | CFL Reflector Replacing 65W/75W Reflector | 353.6% | 0.0% | 7.10 |
| 1105 | LED Reflector Replacing 65W/75W Reflector | SFA | ALL | NC | 54.1 | 83.8% | 45.3 | 0.059 | 0.10 | 15 | \$9.48 | LED Reflector Replacing 65W/75W Reflector | 353.6% | 0.0% | 4.92 |
| 1106 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | SFA | ALL | NC | 48.2 | 69.6% | 33.5 | 0.037 | 0.10 | 5 | \$1.35 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | 200.0% | 0.0% | 8.32 |
| 1107 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | SFA | ALL | NC | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | 143.2% | 0.0% | 4.24 |
| 1108 | Residential Occupancy Sensors | SFA | ALL | NC | 96.5 | 30.0% | 28.9 | 0.028 | 0.10 | 10 | \$63.50 | Residential Occupancy Sensors | 150.0% | 0.0% | 0.20 |
| 1109 | Electroluminescent Nightlight | SFA | ALL | NC | 29.7 | 99.1% | 29.5 | 0.007 | 0.00 | 8 | \$1.92 | Replaces standard nightlighting with electroluminescent nightlight | 42.0% | 0.0% | 4.90 |
| 1110 | LED Nightlight | SFA | ALL | NC | 29.7 | 85.7% | 25.5 | 0.006 | 0.00 | 8 | \$2.51 | Replaces standard nightlighting with LED nightlight | 42.0% | 0.0% | 3.24 |
| 1111 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | NLI | ROB | 34.8 | 65.8% | 22.9 | 0.030 | 0.10 | 5 | \$0.61 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 794.8% | 0.0% | 11.95 |
| 1112 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | NLI | ROB | 63.2 | 69.7% | 44.0 | 0.057 | 0.10 | 5 | \$1.64 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 129.4% | 0.0% | 7.49 |
| 1113 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | NLI | ROB | 34.8 | 78.5% | 27.3 | 0.036 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 794.8% | 0.0% | 3.51 |
| 1114 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | NLI | ROB | 63.2 | 76.3% | 48.2 | 0.063 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 129.4% | 0.0% | 2.76 |
| 1115 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | NLI | ROB | 32.2 | 75.0% | 24.1 | 0.032 | 0.10 | 5 | \$2.71 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 289.9% | 0.0% | 2.79 |
| 1116 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | NLI | ROB | 60.4 | 68.3% | 41.2 | 0.054 | 0.10 | 5 | \$5.26 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 2.9% | 0.0% | 2.49 |
| 1117 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | NLI | ROB | 32.2 | 83.5% | 26.9 | 0.035 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 289.9% | 0.0% | 2.54 |
| 1118 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | NLI | ROB | 60.4 | 75.2% | 45.4 | 0.059 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 2.9% | 0.0% | 2.38 |
| 1119 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | MF | NLI | ROB | 34.8 | 78.5% | 27.3 | 0.036 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | 526.8% | 100.0% | 3.51 |
| 1120 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | MF | NLI | ROB | 63.2 | 76.3% | 48.2 | 0.063 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | 85.8% | 100.0% | 2.76 |
| 1121 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | MF | NLI | ROB | 32.2 | 83.5% | 26.9 | 0.035 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | 15.6% | 100.0% | 2.54 |

Measure Assumptions - PPL

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|---|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|---|-----------------|---------------|-------------------|
| 1122 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | MF | NLI | ROB | 60.4 | 75.2% | 45.4 | 0.059 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | 0.2% | 100.0% | 2.38 |
| 1123 | CFL Reflector Replacing 65W/75W Reflector | MF | NLI | ROB | 54.1 | 74.4% | 40.3 | 0.053 | 0.10 | 5 | \$2.15 | CFL Reflector Replacing 65W/75W Reflector | 67.3% | 0.0% | 7.10 |
| 1124 | LED Reflector Replacing 65W/75W Reflector | MF | NLI | ROB | 54.1 | 83.8% | 45.3 | 0.059 | 0.10 | 15 | \$9.48 | LED Reflector Replacing 65W/75W Reflector | 67.3% | 0.0% | 4.92 |
| 1125 | LED Reflector Replacing CFL Reflector | MF | NLI | ROB | 54.1 | 83.8% | 45.3 | 0.059 | 0.10 | 15 | \$9.48 | LED Reflector Replacing CFL Reflector | 7.1% | 100.0% | 4.92 |
| 1126 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | MF | NLI | ROB | 48.2 | 69.6% | 33.5 | 0.037 | 0.10 | 5 | \$1.35 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | 71.6% | 0.0% | 8.32 |
| 1127 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | MF | NLI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | 71.6% | 0.0% | 4.24 |
| 1128 | Exterior LED Bulb Replacing Exterior CFL Bulb | MF | NLI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior CFL Bulb | 24.2% | 100.0% | 4.24 |
| 1129 | Residential Occupancy Sensors | MF | ALL | Retrofit | 96.5 | 30.0% | 28.9 | 0.028 | 0.10 | 10 | \$63.50 | Residential Occupancy Sensors | 100.0% | 5.0% | 0.20 |
| 1130 | Electroluminescent Nightlight | MF | NLI | ROB | 29.7 | 99.1% | 29.5 | 0.007 | 0.00 | 8 | \$1.92 | Replaces standard nightlighting with electroluminescent nightlight | 18.0% | 32.0% | 4.90 |
| 1131 | LED Nightlight | MF | NLI | ROB | 29.7 | 85.7% | 25.5 | 0.006 | 0.00 | 8 | \$2.51 | Replaces standard nightlighting with LED nightlight | 18.0% | 32.0% | 3.24 |
| 1132 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | LI | ROB | 34.8 | 65.8% | 22.9 | 0.030 | 0.10 | 5 | \$0.61 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 794.8% | 0.0% | 11.95 |
| 1133 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | LI | ROB | 63.2 | 69.7% | 44.0 | 0.057 | 0.10 | 5 | \$1.64 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 129.4% | 0.0% | 7.49 |
| 1134 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | LI | ROB | 34.8 | 78.5% | 27.3 | 0.036 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 794.8% | 0.0% | 3.51 |
| 1135 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | LI | ROB | 63.2 | 76.3% | 48.2 | 0.063 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 129.4% | 0.0% | 2.76 |
| 1136 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | LI | ROB | 32.2 | 75.0% | 24.1 | 0.032 | 0.10 | 5 | \$2.71 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 289.9% | 0.0% | 2.79 |
| 1137 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | LI | ROB | 60.4 | 68.3% | 41.2 | 0.054 | 0.10 | 5 | \$5.26 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 2.9% | 0.0% | 2.49 |
| 1138 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | LI | ROB | 32.2 | 83.5% | 26.9 | 0.035 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 289.9% | 0.0% | 2.54 |
| 1139 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | LI | ROB | 60.4 | 75.2% | 45.4 | 0.059 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 2.9% | 0.0% | 2.38 |
| 1140 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | MF | LI | ROB | 34.8 | 78.5% | 27.3 | 0.036 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard CFL (≤ 75W Equiv.) | 526.8% | 100.0% | 3.51 |
| 1141 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | MF | LI | ROB | 63.2 | 76.3% | 48.2 | 0.063 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard CFL (≥ 100W Equiv.) | 85.8% | 100.0% | 2.76 |
| 1142 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | MF | LI | ROB | 32.2 | 83.5% | 26.9 | 0.035 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty CFL (≤ 75W Equiv.) | 15.6% | 100.0% | 2.54 |
| 1143 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | MF | LI | ROB | 60.4 | 75.2% | 45.4 | 0.059 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty CFL (≥ 100W Equiv.) | 0.2% | 100.0% | 2.38 |
| 1144 | CFL Reflector Replacing 65W/75W Reflector | MF | LI | ROB | 54.1 | 74.4% | 40.3 | 0.053 | 0.10 | 5 | \$2.15 | CFL Reflector Replacing 65W/75W Reflector | 67.3% | 0.0% | 7.10 |
| 1145 | LED Reflector Replacing 65W/75W Reflector | MF | LI | ROB | 54.1 | 83.8% | 45.3 | 0.059 | 0.10 | 15 | \$9.48 | LED Reflector Replacing 65W/75W Reflector | 67.3% | 0.0% | 4.92 |
| 1146 | LED Reflector Replacing CFL Reflector | MF | LI | ROB | 54.1 | 83.8% | 45.3 | 0.059 | 0.10 | 15 | \$9.48 | LED Reflector Replacing CFL Reflector | 7.1% | 100.0% | 4.92 |
| 1147 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | MF | LI | ROB | 48.2 | 69.6% | 33.5 | 0.037 | 0.10 | 5 | \$1.35 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | 71.6% | 0.0% | 8.32 |
| 1148 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | MF | LI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | 71.6% | 0.0% | 4.24 |
| 1149 | Exterior LED Bulb Replacing Exterior CFL Bulb | MF | LI | ROB | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior CFL Bulb | 24.2% | 100.0% | 4.24 |
| 1150 | LED Nightlight | MF | LI | ROB | 29.7 | 85.7% | 25.5 | 0.006 | 0.00 | 8 | \$2.51 | Replaces standard nightlighting with LED nightlight | 18.0% | 32.0% | 3.24 |
| 1151 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | ALL | NC | 34.8 | 65.8% | 22.9 | 0.030 | 0.10 | 5 | \$0.61 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1326.9% | 0.0% | 11.95 |
| 1152 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | ALL | NC | 63.2 | 69.7% | 44.0 | 0.057 | 0.10 | 5 | \$1.64 | Standard CFL Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 216.0% | 0.0% | 7.49 |
| 1153 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | ALL | NC | 34.8 | 78.5% | 27.3 | 0.036 | 0.10 | 15 | \$5.94 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≤ 75W Equiv.) | 1326.9% | 0.0% | 3.51 |
| 1154 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | ALL | NC | 63.2 | 76.3% | 48.2 | 0.063 | 0.10 | 15 | \$12.65 | Standard LED Replacing Standard Halogen/Incandescent Bulb (≥ 100W Equiv.) | 216.0% | 0.0% | 2.76 |
| 1155 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | ALL | NC | 32.2 | 75.0% | 24.1 | 0.032 | 0.10 | 5 | \$2.71 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 305.5% | 0.0% | 2.79 |
| 1156 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | ALL | NC | 60.4 | 68.3% | 41.2 | 0.054 | 0.10 | 5 | \$5.26 | Specialty CFL Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 3.1% | 0.0% | 2.49 |
| 1157 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | MF | ALL | NC | 32.2 | 83.5% | 26.9 | 0.035 | 0.10 | 15 | \$8.62 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≤ 75W Equiv.) | 305.5% | 0.0% | 2.54 |
| 1158 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | MF | ALL | NC | 60.4 | 75.2% | 45.4 | 0.059 | 0.10 | 15 | \$16.89 | Specialty LED Replacing Specialty Halogen/Incandescent Bulb (≥ 100W Equiv.) | 3.1% | 0.0% | 2.38 |
| 1159 | CFL Reflector Replacing 65W/75W Reflector | MF | ALL | NC | 54.1 | 74.4% | 40.3 | 0.053 | 0.10 | 5 | \$2.15 | CFL Reflector Replacing 65W/75W Reflector | 77.1% | 0.0% | 7.10 |
| 1160 | LED Reflector Replacing 65W/75W Reflector | MF | ALL | NC | 54.1 | 83.8% | 45.3 | 0.059 | 0.10 | 15 | \$9.48 | LED Reflector Replacing 65W/75W Reflector | 77.1% | 0.0% | 4.92 |
| 1161 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | MF | ALL | NC | 48.2 | 69.6% | 33.5 | 0.037 | 0.10 | 5 | \$1.35 | Exterior CFL Bulb Replacing Exterior Incandescent/Halogen bulb | 100.0% | 0.0% | 8.32 |
| 1162 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | MF | ALL | NC | 48.2 | 79.5% | 38.3 | 0.042 | 0.10 | 15 | \$7.93 | Exterior LED Bulb Replacing Exterior Incandescent/Halogen bulb | 100.0% | 0.0% | 4.24 |
| 1163 | Residential Occupancy Sensors | MF | ALL | NC | 96.5 | 30.0% | 28.9 | 0.028 | 0.10 | 10 | \$63.50 | Residential Occupancy Sensors | 150.0% | 0.0% | 0.20 |

Measure Assumptions - PPL

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|---|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|--|-----------------|---------------|-------------------|
| 1164 | Electroluminescent Nightlight | MF | ALL | NC | 29.7 | 99.1% | 29.5 | 0.007 | 0.00 | 8 | \$1.92 | Replaces standard nightlighting with electroluminescent nightlight | 18.0% | 0.0% | 4.90 |
| 1165 | LED Nightlight | MF | ALL | NC | 29.7 | 85.7% | 25.5 | 0.006 | 0.00 | 8 | \$2.51 | Replaces standard nightlighting with LED nightlight | 18.0% | 0.0% | 3.24 |
| 2000 | HVAC Equipment | | | | | | | | | | | | | | |
| 2001 | Central AC Maintenance (10.4 SEER to 11 SEER) | SFD | NLI | Retrofit | 1,928.0 | 1.8% | 35.0 | 0.141 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of central AC units in homes with central air conditioning | 39.8% | 62.0% | 0.40 |
| 2002 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) | SFD | NLI | ROB | 1,548.0 | 10.1% | 156.0 | 0.229 | 0.65 | 14 | \$1,407.82 | Installation of 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 39.8% | 14.0% | 0.12 |
| 2003 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) | SFD | NLI | ROB | 1,548.0 | 14.2% | 220.0 | 0.328 | 0.65 | 14 | \$2,588.05 | Installation of 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 39.8% | 14.0% | 0.09 |
| 2004 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) - with proper sizing | SFD | NLI | ROB | 1,548.0 | 11.2% | 173.0 | 0.268 | 0.65 | 14 | \$1,319.00 | Installation of properly sized 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 39.8% | 14.0% | 0.14 |
| 2005 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) - with proper sizing | SFD | NLI | ROB | 1,548.0 | 15.2% | 235.0 | 0.358 | 0.65 | 14 | \$2,499.23 | Installation of properly sized 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 39.8% | 14.0% | 0.10 |
| 2006 | Air Source Heat Pump Maintenance (12.3 SEER to 13 SEER / 7.3 hspf to 7.7 hspf) | SFD | NLI | Retrofit | 6,248.0 | 6.9% | 430.0 | 0.161 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of air-source heat pump in homes with air-source heat pumps | 18.6% | 63.0% | 1.59 |
| 2007 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 15 SEER / 8.5 hspf) | SFD | NLI | ROB | 5,378.0 | 3.6% | 196.0 | 0.056 | 0.65 | 12 | \$1,116.43 | Installation of 15 SEER / 8.5 hspf instead of standard air-source heat pump in homes with heat pumps | 18.6% | 14.0% | 0.10 |
| 2008 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 16 SEER / 9.0 hspf) | SFD | NLI | ROB | 5,378.0 | 9.5% | 513.0 | 0.100 | 0.65 | 12 | \$1,381.27 | Installation of 16 SEER / 9.0 hspf instead of standard air-source heat pump in homes with heat pumps | 18.6% | 14.0% | 0.19 |
| 2009 | ENERGY STAR Ground Source Heat Pump (14 SEER / 8.0 hspf to 17.1 EER / 3.6 COP) | SFD | NLI | ROB | 5,378.0 | 14.1% | 756.0 | 0.366 | 0.65 | 30 | \$12,709.14 | Installation of 17.1 EER / 3.6 COP ground source heat pump instead of standard air-source heat pump in homes with heat pumps | 18.6% | 14.0% | 0.04 |
| 2010 | ENERGY STAR Ground Source Heat Pump (14 SEER / 8.0 hspf to 17.1 EER / 3.6 COP) - with desuperheater | SFD | NLI | ROB | 5,378.0 | 24.6% | 1,323.0 | 0.366 | 0.65 | 30 | \$12,071.37 | Installation of 17.1 EER / 3.6 COP ground source heat pump (with a desuperheater) instead of standard air-source heat pump in homes with heat pumps | 18.6% | 14.0% | 0.07 |
| 2011 | ENERGY STAR Air Source Heat Pump (Elec Furnace / CAC to 16 SEER / 9.0 hspf) | SFD | NLI | ROB | 12,690.0 | 61.7% | 7,825.0 | 0.222 | 0.65 | 12 | \$3,158.48 | Installation of 16 SEER / 9.0 hspf instead of electric furnace in homes with electric furnaces | 2.8% | 0.0% | 1.16 |
| 2012 | ENERGY STAR Ground Source Heat Pump (Electric Furnace / CAC to 17.1 EER / 3.6 COP) - with desuperheater | SFD | NLI | ROB | 12,690.0 | 61.7% | 7,825.0 | 0.222 | 0.65 | 30 | \$17,454.97 | Installation of 17.1 EER / 3.6 COP ground source heat pump (with a desuperheater) instead of electric furnace in homes with electric furnaces | 2.8% | 0.0% | 0.25 |
| 2013 | High Efficiency Furnace Fan (on existing furnace) - electric heating and central AC | SFD | ALL | Retrofit | 12,690.0 | 3.5% | 446.0 | 0.176 | 0.65 | 18 | \$360.00 | Installation of high efficiency furnace fan on existing furnace in homes with electric furnaces | 18.0% | 34.0% | 0.88 |
| 2014 | High Efficiency Furnace Fan (on existing furnace) - non-electric heating and central AC | SFD | ALL | Retrofit | 1,893.0 | 23.6% | 446.0 | 0.176 | 0.65 | 18 | \$360.00 | Installation of high efficiency furnace fan on existing furnace in homes with non-electric furnaces | 35.0% | 34.0% | 0.88 |
| 2015 | Furnace Whistle - electric heating and central AC | SFD | NLI | Retrofit | 6,764.3 | 0.9% | 58.8 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on electric furnaces in homes with electric forced air heating | 18.0% | 10.0% | 50.91 |
| 2016 | Furnace Whistle - non-electric heating and central AC | SFD | NLI | Retrofit | 1,893.0 | 1.0% | 19.6 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on non-electric furnaces in homes with non-electric forced air heating | 35.0% | 10.0% | 29.96 |
| 2017 | Ductless Mini-Split Heat Pump (16 SEER / 9.0 hspf) - replacing baseboard/room AC | SFD | ALL | ROB | 12,295.0 | 65.1% | 7,998.0 | 1.508 | 0.30 | 15 | \$3,570.80 | Installation of a 16 SEER / 9.0 hspf ductless minisplit heat pump to replace baseboard heating in homes with baseboard heating and room air conditioning | 27.8% | 0.0% | 1.32 |
| 2018 | Ductless Mini-Split Air Conditioner (16 SEER) replacing room AC | SFD | ALL | ROB | 1,750.0 | 34.5% | 603.0 | 1.506 | 0.30 | 15 | \$3,570.80 | Installation of a 16 SEER / 9.0 hspf ductless minisplit air conditioner instead of standard room air conditioner in homes with room air conditioning and any form of electric heating other than baseboard heating | 27.8% | 26.0% | 0.17 |
| 2019 | High Efficiency Room Air Conditioner (11 CEER to 12 CEER) | SFD | NLI | ROB | 1,750.0 | 0.6% | 10.4 | 0.061 | 0.30 | 9 | \$40.00 | Installation of a high efficiency room air conditioner instead of standard room air conditioner in homes with room air conditioning and any form of electric heating other than baseboard heating | 89.3% | 26.0% | 0.27 |
| 2020 | Room AC Retirement | SFD | ALL | Retrofit | 1,777.2 | 10.6% | 188.0 | 0.640 | 0.30 | 4 | \$60.00 | Retirement of supplemental room air conditioners (not primary or secondary) in homes with room air conditioners | 54.0% | 0.0% | 1.21 |
| 2021 | Programmable Thermostat (electric heating and air conditioning) | SFD | NLI | Retrofit | 8,921.3 | 3.3% | 293.2 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with electric heating and air conditioning | 31.2% | 27.0% | 1.94 |
| 2022 | Smart Thermostat (electric heating and air conditioning) | SFD | NLI | Retrofit | 8,921.3 | 10.8% | 959.9 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with electric heating and air conditioning | 31.2% | 27.0% | 1.63 |
| 2023 | Programmable Thermostat (non-electric heating and air conditioning) | SFD | NLI | Retrofit | 1,893.0 | 2.0% | 37.9 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with non-electric heating and air conditioning | 57.9% | 27.0% | 0.24 |
| 2024 | Smart Thermostat (non-electric heating and air conditioning) | SFD | NLI | Retrofit | 1,893.0 | 13.9% | 263.0 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with non-electric heating and air conditioning | 57.9% | 27.0% | 0.42 |
| 2025 | Residential Whole House Fan | SFD | ALL | Retrofit | 1,893.0 | 12.3% | 232.0 | 0.000 | 0.65 | 15 | \$533.86 | Installation of residential whole house fan in homes with air conditioning | 89.0% | 5.0% | 0.23 |
| 2026 | Central AC Maintenance (10.4 SEER to 11 SEER) | SFD | LI | Retrofit | 1,928.0 | 1.8% | 35.0 | 0.141 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of central AC units in homes with central air conditioning | 39.8% | 62.0% | 0.40 |

Measure Assumptions - PPL

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|---|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|---|-----------------|---------------|-------------------|
| 2027 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) | SFD | LI | ROB | 1,548.0 | 10.1% | 156.0 | 0.229 | 0.65 | 14 | \$1,407.82 | Installation of 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 39.8% | 14.0% | 0.12 |
| 2028 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) | SFD | LI | ROB | 1,548.0 | 14.2% | 220.0 | 0.328 | 0.65 | 14 | \$2,588.05 | Installation of 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 39.8% | 14.0% | 0.09 |
| 2029 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) - with proper sizing | SFD | LI | ROB | 1,548.0 | 11.2% | 173.0 | 0.268 | 0.65 | 14 | \$1,319.00 | Installation of properly sized 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 39.8% | 14.0% | 0.14 |
| 2030 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) - with proper sizing | SFD | LI | ROB | 1,548.0 | 15.2% | 235.0 | 0.358 | 0.65 | 14 | \$2,499.23 | Installation of properly sized 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 39.8% | 14.0% | 0.10 |
| 2031 | Air Source Heat Pump Maintenance (12.3 SEER to 13 SEER / 7.3 hspf to 7.7 hspf) | SFD | LI | Retrofit | 6,248.0 | 6.9% | 430.0 | 0.161 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of air-source heat pump in homes with air-source heat pumps | 18.6% | 63.0% | 1.59 |
| 2032 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 15 SEER / 8.5 hspf) | SFD | LI | ROB | 5,378.0 | 3.6% | 196.0 | 0.056 | 0.65 | 12 | \$1,116.43 | Installation of 15 SEER / 8.5 hspf instead of standard air-source heat pump in homes with heat pumps | 18.6% | 14.0% | 0.10 |
| 2033 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 16 SEER / 9.0 hspf) | SFD | LI | ROB | 5,378.0 | 9.5% | 513.0 | 0.100 | 0.65 | 12 | \$1,381.27 | Installation of 16 SEER / 9.0 hspf instead of standard air-source heat pump in homes with heat pumps | 18.6% | 14.0% | 0.19 |
| 2034 | ENERGY STAR Air Source Heat Pump (Elec Furnace / CAC to 16 SEER / 9.0 hspf) | SFD | LI | ROB | 12,690.0 | 61.7% | 7,825.0 | 0.222 | 0.65 | 12 | \$3,158.48 | Installation of 16 SEER / 9.0 hspf instead of electric furnace in homes with electric furnaces | 2.8% | 0.0% | 1.16 |
| 2035 | Furnace Whistle - electric heating and central AC | SFD | LI | Retrofit | 6,764.3 | 0.9% | 58.8 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on electric furnaces in homes with electric forced air heating | 18.0% | 10.0% | 51.08 |
| 2036 | Furnace Whistle - non-electric heating and central AC | SFD | LI | Retrofit | 1,893.0 | 1.0% | 19.6 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on non-electric furnaces in homes with non-electric forced air heating | 35.0% | 10.0% | 30.40 |
| 2037 | High Efficiency Room Air Conditioner (11 CEER to 12 CEER) | SFD | LI | ROB | 1,750.0 | 0.6% | 10.4 | 0.061 | 0.30 | 9 | \$40.00 | Installation of a high efficiency room air conditioner instead of standard room air conditioner in homes with room air conditioning and any form of electric heating other than baseboard heating | 89.3% | 26.0% | 0.27 |
| 2038 | Programmable Thermostat (electric heating and air conditioning) | SFD | LI | Retrofit | 8,921.3 | 3.3% | 293.2 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with electric heating and air conditioning | 31.2% | 27.0% | 1.94 |
| 2039 | Smart Thermostat (electric heating and air conditioning) | SFD | LI | Retrofit | 8,921.3 | 10.8% | 959.9 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with electric heating and air conditioning | 31.2% | 27.0% | 1.63 |
| 2040 | Programmable Thermostat (non-electric heating and air conditioning) | SFD | LI | Retrofit | 1,893.0 | 2.0% | 37.9 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with non-electric heating and air conditioning | 57.9% | 27.0% | 0.24 |
| 2041 | Smart Thermostat (non-electric heating and air conditioning) | SFD | LI | Retrofit | 1,893.0 | 13.9% | 263.0 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with non-electric heating and air conditioning | 57.9% | 27.0% | 0.42 |
| 2042 | Central AC Maintenance (10.4 SEER to 11 SEER) | SFA | NLI | Retrofit | 1,843.0 | 2.0% | 37.7 | 0.124 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of central AC units in homes with central air conditioning | 39.8% | 62.0% | 0.37 |
| 2043 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) | SFA | NLI | ROB | 1,464.6 | 10.3% | 150.4 | 0.192 | 0.65 | 14 | \$1,319.00 | Installation of 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 39.8% | 14.0% | 0.11 |
| 2044 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) | SFA | NLI | ROB | 1,464.6 | 14.6% | 213.1 | 0.272 | 0.65 | 14 | \$2,499.23 | Installation of 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 39.8% | 14.0% | 0.08 |
| 2045 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) - with proper sizing | SFA | NLI | ROB | 1,464.6 | 11.3% | 165.5 | 0.220 | 0.65 | 14 | \$1,230.23 | Installation of properly sized 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 39.8% | 14.0% | 0.13 |
| 2046 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) - with proper sizing | SFA | NLI | ROB | 1,464.6 | 15.5% | 227.3 | 0.298 | 0.65 | 14 | \$2,410.41 | Installation of properly sized 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 39.8% | 14.0% | 0.09 |
| 2047 | Air Source Heat Pump Maintenance (12.3 SEER to 13 SEER / 7.3 hspf to 7.7 hspf) | SFA | NLI | Retrofit | 5,529.6 | 7.3% | 405.8 | 0.155 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of air-source heat pump in homes with air-source heat pumps | 18.6% | 63.0% | 1.51 |
| 2048 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 15 SEER / 8.5 hspf) | SFA | NLI | ROB | 4,737.0 | 3.7% | 176.7 | 0.047 | 0.65 | 12 | \$1,004.75 | Installation of 15 SEER / 8.5 hspf instead of standard air-source heat pump in homes with heat pumps | 18.6% | 14.0% | 0.10 |
| 2049 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 16 SEER / 9.0 hspf) | SFA | NLI | ROB | 4,737.0 | 9.5% | 450.9 | 0.082 | 0.65 | 12 | \$1,269.59 | Installation of 16 SEER / 9.0 hspf instead of standard air-source heat pump in homes with heat pumps | 18.6% | 14.0% | 0.18 |
| 2050 | ENERGY STAR Air Source Heat Pump (Elec Furnace / CAC to 16 SEER / 9.0 hspf) | SFA | NLI | ROB | 10,782.0 | 60.2% | 6,495.9 | 0.179 | 0.65 | 12 | \$2,829.74 | Installation of 16 SEER / 9.0 hspf instead of electric furnace in homes with electric furnaces | 2.8% | 0.0% | 1.07 |
| 2051 | High Efficiency Furnace Fan (on existing furnace) - electric heating and central AC | SFA | ALL | Retrofit | 10,782.0 | 4.1% | 446.0 | 0.176 | 0.65 | 18 | \$360.00 | Installation of high efficiency furnace fan on existing furnace in homes with electric furnaces | 18.0% | 34.0% | 0.88 |
| 2052 | High Efficiency Furnace Fan (on existing furnace) - non-electric heating and central AC | SFA | ALL | Retrofit | 1,805.3 | 24.7% | 446.0 | 0.176 | 0.65 | 18 | \$360.00 | Installation of high efficiency furnace fan on existing furnace in homes with non-electric furnaces | 35.0% | 34.0% | 0.88 |
| 2053 | Furnace Whistle - electric heating and central AC | SFA | NLI | Retrofit | 5,909.7 | 1.0% | 58.8 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on electric furnaces in homes with electric forced air heating | 18.0% | 10.0% | 50.91 |
| 2054 | Furnace Whistle - non-electric heating and central AC | SFA | NLI | Retrofit | 1,805.3 | 1.1% | 19.6 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on non-electric furnaces in homes with non-electric forced air heating | 35.0% | 10.0% | 29.96 |
| 2055 | Ductless Mini-Split Heat Pump (16 SEER / 9.0 hspf) - replacing baseboard/room AC | SFA | ALL | ROB | 10,248.9 | 63.4% | 6,496.3 | 1.379 | 0.30 | 15 | \$2,856.64 | Installation of a 16 SEER / 9.0 hspf ductless minisplit heat pump to replace baseboard heating in homes with baseboard heating and room air conditioning | 46.3% | 0.0% | 1.35 |

Measure Assumptions - PPL

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|--|-----------------|---------------|-------------------|
| 2056 | Ductless Mini-Split Air Conditioner (16 SEER) replacing room AC | SFA | ALL | ROB | 1,729.5 | 37.6% | 650.1 | 1.389 | 0.30 | 15 | \$2,856.64 | Installation of a 16 SEER / 9.0 hspf ductless minisplit air conditioner instead of standard room air conditioner in homes with room air conditioning and any form of electric heating other than baseboard heating | 46.3% | 26.0% | 0.21 |
| 2057 | High Efficiency Room Air Conditioner (11 CEER to 12 CEER) | SFA | NLI | ROB | 1,729.5 | 0.6% | 10.4 | 0.061 | 0.30 | 9 | \$40.00 | Installation of a high efficiency room air conditioner instead of standard room air conditioner in homes with room air conditioning and any form of electric heating other than baseboard heating | 114.7% | 26.0% | 0.27 |
| 2058 | Room AC Retirement | SFA | ALL | Retrofit | 1,698.8 | 11.1% | 188.0 | 0.640 | 0.30 | 4 | \$60.00 | Retirement of supplemental room air conditioners (not primary or secondary) in homes with room air conditioners | 54.0% | 0.0% | 1.21 |
| 2059 | Programmable Thermostat (electric heating and air conditioning) | SFA | NLI | Retrofit | 7,602.0 | 3.2% | 246.7 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with electric heating and air conditioning | 31.2% | 29.3% | 1.63 |
| 2060 | Smart Thermostat (electric heating and air conditioning) | SFA | NLI | Retrofit | 7,602.0 | 10.9% | 828.2 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with electric heating and air conditioning | 31.2% | 29.3% | 1.41 |
| 2061 | Programmable Thermostat (non-electric heating and air conditioning) | SFA | NLI | Retrofit | 1,805.3 | 2.0% | 36.1 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with non-electric heating and air conditioning | 57.9% | 29.3% | 0.23 |
| 2062 | Smart Thermostat (non-electric heating and air conditioning) | SFA | NLI | Retrofit | 1,805.3 | 14.0% | 252.6 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with non-electric heating and air conditioning | 57.9% | 29.3% | 0.40 |
| 2063 | Residential Whole House Fan | SFA | ALL | Retrofit | 1,805.3 | 9.8% | 177.5 | 0.000 | 0.65 | 15 | \$533.86 | Installation of residential whole house fan in homes with air conditioning | 89.0% | 5.0% | 0.17 |
| 2064 | Central AC Maintenance (10.4 SEER to 11 SEER) | SFA | LI | Retrofit | 1,843.0 | 2.0% | 37.7 | 0.124 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of central AC units in homes with central air conditioning | 39.8% | 62.0% | 0.37 |
| 2065 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) | SFA | LI | ROB | 1,464.6 | 10.3% | 150.4 | 0.192 | 0.65 | 14 | \$1,319.00 | Installation of 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 39.8% | 14.0% | 0.11 |
| 2066 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) | SFA | LI | ROB | 1,464.6 | 14.6% | 213.1 | 0.272 | 0.65 | 14 | \$2,499.23 | Installation of 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 39.8% | 14.0% | 0.08 |
| 2067 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) - with proper sizing | SFA | LI | ROB | 1,464.6 | 11.3% | 165.5 | 0.220 | 0.65 | 14 | \$1,230.23 | Installation of properly sized 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 39.8% | 14.0% | 0.13 |
| 2068 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) - with proper sizing | SFA | LI | ROB | 1,464.6 | 15.5% | 227.3 | 0.298 | 0.65 | 14 | \$2,410.41 | Installation of properly sized 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 39.8% | 14.0% | 0.09 |
| 2069 | Air Source Heat Pump Maintenance (12.3 SEER to 13 SEER / 7.3 hspf to 7.7 hspf) | SFA | LI | ROB | 5,529.6 | 7.3% | 405.8 | 0.155 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of air-source heat pump in homes with air-source heat pumps | 18.6% | 63.0% | 1.51 |
| 2070 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 15 SEER / 8.5 hspf) | SFA | LI | ROB | 4,737.0 | 3.7% | 176.7 | 0.082 | 0.65 | 12 | \$1,004.75 | Installation of 15 SEER / 8.5 hspf instead of standard air-source heat pump in homes with heat pumps | 18.6% | 14.0% | 0.11 |
| 2071 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 16 SEER / 9.0 hspf) | SFA | LI | ROB | 4,737.0 | 9.5% | 450.9 | 0.082 | 0.65 | 12 | \$1,269.59 | Installation of 16 SEER / 9.0 hspf instead of standard air-source heat pump in homes with heat pumps | 18.6% | 14.0% | 0.18 |
| 2072 | ENERGY STAR Air Source Heat Pump (Elec Furnace / CAC to 16 SEER / 9.0 hspf) | SFA | LI | ROB | 10,782.0 | 60.2% | 6,495.9 | 0.179 | 0.65 | 12 | \$2,829.74 | Installation of 16 SEER / 9.0 hspf instead of electric furnace in homes with electric furnaces | 2.8% | 0.0% | 1.07 |
| 2073 | Furnace Whistle - electric heating and central AC | SFA | LI | Retrofit | 5,909.7 | 1.0% | 58.8 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on electric furnaces in homes with electric forced air heating | 18.0% | 10.0% | 50.91 |
| 2074 | Furnace Whistle - non-electric heating and central AC | SFA | LI | Retrofit | 1,805.3 | 1.1% | 19.6 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on non-electric furnaces in homes with non-electric forced air heating | 35.0% | 10.0% | 29.96 |
| 2075 | High Efficiency Room Air Conditioner (11 CEER to 12 CEER) | SFA | LI | ROB | 1,729.5 | 0.6% | 10.4 | 0.061 | 0.30 | 9 | \$40.00 | Installation of a high efficiency room air conditioner instead of standard room air conditioner in homes with room air conditioning and any form of electric heating other than baseboard heating | 114.7% | 26.0% | 0.27 |
| 2076 | Programmable Thermostat (electric heating and air conditioning) | SFA | LI | Retrofit | 7,602.0 | 3.2% | 246.7 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with electric heating and air conditioning | 31.2% | 29.3% | 1.63 |
| 2077 | Smart Thermostat (electric heating and air conditioning) | SFA | LI | Retrofit | 7,602.0 | 10.9% | 828.2 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with electric heating and air conditioning | 31.2% | 29.3% | 1.41 |
| 2078 | Programmable Thermostat (non-electric heating and air conditioning) | SFA | LI | Retrofit | 1,805.3 | 2.0% | 36.1 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with non-electric heating and air conditioning | 57.9% | 29.3% | 0.23 |
| 2079 | Smart Thermostat (non-electric heating and air conditioning) | SFA | LI | Retrofit | 1,805.3 | 14.0% | 252.6 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with non-electric heating and air conditioning | 57.9% | 29.3% | 0.40 |
| 2080 | Central AC Maintenance (10.4 SEER to 11 SEER) | MF | NLI | Retrofit | 1,813.1 | 3.9% | 71.3 | 0.104 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of central AC units in homes with central air conditioning | 39.8% | 62.0% | 0.42 |
| 2081 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) | MF | NLI | ROB | 1,367.9 | 12.2% | 167.1 | 0.132 | 0.65 | 14 | \$1,141.46 | Installation of 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 39.8% | 14.0% | 0.12 |
| 2082 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) | MF | NLI | ROB | 1,367.9 | 17.3% | 236.9 | 0.187 | 0.65 | 14 | \$2,321.59 | Installation of 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 39.8% | 14.0% | 0.08 |
| 2083 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) - with proper sizing | MF | NLI | ROB | 1,367.9 | 11.9% | 163.0 | 0.124 | 0.65 | 14 | \$856.10 | Installation of properly sized 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 39.8% | 14.0% | 0.15 |

Measure Assumptions - PPL

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|---|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|--|-----------------|---------------|-------------------|
| 2084 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) - with proper sizing | MF | NLI | ROB | 1,367.9 | 17.0% | 232.9 | 0.180 | 0.65 | 14 | \$1,741.19 | Installation of properly sized 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 39.8% | 14.0% | 0.11 |
| 2085 | Air Source Heat Pump Maintenance (12.3 SEER to 13 SEER / 7.3 hspf to 7.7 hspf) | MF | NLI | Retrofit | 2,498.8 | 10.6% | 265.1 | 0.111 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of air-source heat pump in homes with air-source heat pumps | 18.6% | 63.0% | 1.01 |
| 2086 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 15 SEER / 8.5 hspf) | MF | NLI | ROB | 2,087.3 | 3.5% | 72.3 | 0.031 | 0.65 | 12 | \$781.39 | Installation of 15 SEER / 8.5 hspf instead of standard air-source heat pump in homes with heat pumps | 18.6% | 14.0% | 0.06 |
| 2087 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 16 SEER / 9.0 hspf) | MF | NLI | ROB | 2,087.3 | 7.7% | 160.9 | 0.055 | 0.65 | 12 | \$1,046.23 | Installation of 16 SEER / 9.0 hspf instead of standard air-source heat pump in homes with heat pumps | 18.6% | 14.0% | 0.09 |
| 2088 | ENERGY STAR Air Source Heat Pump (Elec Furnace / CAC to 16 SEER / 9.0 hspf) | MF | NLI | ROB | 3,258.2 | 40.9% | 1,331.8 | 0.114 | 0.65 | 12 | \$2,172.26 | Installation of 16 SEER / 9.0 hspf instead of electric furnace in homes with electric furnaces | 2.8% | 0.0% | 0.30 |
| 2089 | High Efficiency Furnace Fan (on existing furnace) - electric heating and central AC | MF | ALL | Retrofit | 3,258.2 | 13.7% | 446.0 | 0.176 | 0.65 | 18 | \$360.00 | Installation of high efficiency furnace fan on existing furnace in homes with electric furnaces | 18.0% | 34.0% | 0.88 |
| 2090 | High Efficiency Furnace Fan (on existing furnace) - non-electric heating and central AC | MF | ALL | Retrofit | 1,741.8 | 25.6% | 446.0 | 0.176 | 0.65 | 18 | \$360.00 | Installation of high efficiency furnace fan on existing furnace in homes with non-electric furnaces | 35.0% | 34.0% | 0.88 |
| 2091 | Furnace Whistle - electric heating and central AC | MF | NLI | Retrofit | 2,412.1 | 2.4% | 58.8 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on electric furnaces in homes with electric forced air heating | 18.0% | 10.0% | 50.91 |
| 2092 | Furnace Whistle - non-electric heating and central AC | MF | NLI | Retrofit | 1,741.8 | 1.1% | 19.6 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on non-electric furnaces in homes with non-electric forced air heating | 35.0% | 10.0% | 29.96 |
| 2093 | Ductless Mini-Split Heat Pump (16 SEER / 9.0 hspf) - replacing baseboard/room AC | MF | ALL | ROB | 3,098.6 | 60.3% | 1,869.8 | 1.022 | 0.30 | 15 | \$1,428.32 | Installation of a 16 SEER / 9.0 hspf ductless minisplit heat pump to replace baseboard heating in homes with baseboard heating and room air conditioning | 52.5% | 0.0% | 0.86 |
| 2094 | Ductless Mini-Split Air Conditioner (16 SEER) replacing room AC | MF | ALL | ROB | 1,518.3 | 47.7% | 723.9 | 1.057 | 0.30 | 15 | \$1,428.32 | Installation of a 16 SEER / 9.0 hspf ductless minisplit air conditioner instead of standard room air conditioner in homes with room air conditioning and any form of electric heating other than baseboard heating | 52.5% | 26.0% | 0.40 |
| 2095 | High Efficiency Room Air Conditioner (11 CEER to 12 CEER) | MF | NLI | ROB | 1,518.3 | 0.7% | 10.4 | 0.061 | 0.30 | 9 | \$40.00 | Installation of a high efficiency room air conditioner instead of standard room air conditioner in homes with room air conditioning and any form of electric heating other than baseboard heating | 97.3% | 26.0% | 0.27 |
| 2096 | Room AC Retirement | MF | ALL | Retrofit | 1,837.2 | 10.2% | 188.0 | 0.640 | 0.30 | 4 | \$60.00 | Retirement of supplemental room air conditioners (not primary or secondary) in homes with room air conditioners | 54.0% | 0.0% | 1.21 |
| 2097 | Programmable Thermostat (electric heating and air conditioning) | MF | NLI | Retrofit | 2,679.6 | 2.8% | 73.8 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with electric heating and air conditioning | 31.2% | 23.2% | 0.49 |
| 2098 | Smart Thermostat (electric heating and air conditioning) | MF | NLI | Retrofit | 2,679.6 | 12.5% | 336.0 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with electric heating and air conditioning | 31.2% | 23.2% | 0.57 |
| 2099 | Programmable Thermostat (non-electric heating and air conditioning) | MF | NLI | Retrofit | 1,741.8 | 2.0% | 34.8 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with non-electric heating and air conditioning | 57.9% | 23.2% | 0.22 |
| 2100 | Smart Thermostat (non-electric heating and air conditioning) | MF | NLI | Retrofit | 1,741.8 | 14.6% | 254.0 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with non-electric heating and air conditioning | 57.9% | 23.2% | 0.41 |
| 2101 | Residential Whole House Fan | MF | ALL | Retrofit | 1,741.8 | 5.2% | 91.4 | 0.000 | 0.65 | 15 | \$533.86 | Installation of residential whole house fan in homes with air conditioning | 89.0% | 5.0% | 0.09 |
| 2102 | Central AC Maintenance (10.4 SEER to 11 SEER) | MF | LI | Retrofit | 1,813.1 | 3.9% | 71.3 | 0.104 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of central AC units in homes with central air conditioning | 39.8% | 62.0% | 0.42 |
| 2103 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) | MF | LI | ROB | 1,367.9 | 12.2% | 167.1 | 0.132 | 0.65 | 14 | \$1,141.46 | Installation of 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 39.8% | 14.0% | 0.12 |
| 2104 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) | MF | LI | ROB | 1,367.9 | 17.3% | 236.9 | 0.187 | 0.65 | 14 | \$2,321.59 | Installation of 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 39.8% | 14.0% | 0.08 |
| 2105 | ENERGY STAR Central Air Conditioner (13 SEER to 15 SEER) - with proper sizing | MF | LI | ROB | 1,367.9 | 11.9% | 163.0 | 0.124 | 0.65 | 14 | \$856.10 | Installation of properly sized 15 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 39.8% | 14.0% | 0.15 |
| 2106 | ENERGY STAR Central Air Conditioner (13 SEER to 16 SEER) - with proper sizing | MF | LI | ROB | 1,367.9 | 17.0% | 232.9 | 0.180 | 0.65 | 14 | \$1,741.19 | Installation of properly sized 16 SEER central air conditioner instead of standard central air conditioner in homes with central air conditioning | 39.8% | 14.0% | 0.11 |
| 2107 | Air Source Heat Pump Maintenance (12.3 SEER to 13 SEER / 7.3 hspf to 7.7 hspf) | MF | LI | ROB | 2,498.8 | 10.6% | 265.1 | 0.111 | 0.65 | 7 | \$100.00 | Maintenance, service or tune-up of air-source heat pump in homes with air-source heat pumps | 18.6% | 63.0% | 1.01 |
| 2108 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 15 SEER / 8.5 hspf) | MF | LI | ROB | 2,087.3 | 3.5% | 72.3 | 0.031 | 0.65 | 12 | \$781.39 | Installation of 15 SEER / 8.5 hspf instead of standard air-source heat pump in homes with heat pumps | 18.6% | 14.0% | 0.06 |
| 2109 | ENERGY STAR Air Source Heat Pump (14 SEER / 8.0 hspf to 16 SEER / 9.0 hspf) | MF | LI | ROB | 2,087.3 | 7.7% | 160.9 | 0.055 | 0.65 | 12 | \$1,046.23 | Installation of 16 SEER / 9.0 hspf instead of standard air-source heat pump in homes with heat pumps | 18.6% | 14.0% | 0.09 |
| 2110 | ENERGY STAR Air Source Heat Pump (Elec Furnace / CAC to 16 SEER / 9.0 hspf) | MF | LI | ROB | 3,258.2 | 40.9% | 1,331.8 | 0.114 | 0.65 | 12 | \$2,172.26 | Installation of 16 SEER / 9.0 hspf instead of electric furnace in homes with electric furnaces | 2.8% | 0.0% | 0.30 |
| 2111 | Furnace Whistle - electric heating and central AC | MF | LI | Retrofit | 2,412.1 | 2.4% | 58.8 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on electric furnaces in homes with electric forced air heating | 18.0% | 10.0% | 50.91 |
| 2112 | Furnace Whistle - non-electric heating and central AC | MF | LI | Retrofit | 1,741.8 | 1.1% | 19.6 | 0.055 | 0.65 | 14 | \$1.00 | Installation of furnace whistle on non-electric furnaces in homes with non-electric forced air heating | 35.0% | 10.0% | 29.96 |

Measure Assumptions - PPL

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|---|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|---|-----------------|---------------|-------------------|
| 2113 | High Efficiency Room Air Conditioner (11 CEER to 12 CEER) | MF | LI | ROB | 1,518.3 | 0.7% | 10.4 | 0.061 | 0.30 | 9 | \$40.00 | Installation of a high efficiency room air conditioner instead of standard room air conditioner in homes with room air conditioning and any form of electric heating other than baseboard heating | 97.3% | 26.0% | 0.27 |
| 2114 | Programmable Thermostat (electric heating and air conditioning) | MF | LI | Retrofit | 2,679.6 | 2.8% | 73.8 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with electric heating and air conditioning | 31.2% | 23.2% | 0.49 |
| 2115 | Smart Thermostat (electric heating and air conditioning) | MF | LI | Retrofit | 2,679.6 | 12.5% | 336.0 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with electric heating and air conditioning | 31.2% | 23.2% | 0.57 |
| 2116 | Programmable Thermostat (non-electric heating and air conditioning) | MF | LI | Retrofit | 1,741.8 | 2.0% | 34.8 | 0.000 | 0.65 | 11 | \$64.00 | Installation of programmable thermostat in homes with non-electric heating and air conditioning | 57.9% | 23.2% | 0.22 |
| 2117 | Smart Thermostat (non-electric heating and air conditioning) | MF | LI | Retrofit | 1,741.8 | 14.6% | 254.0 | 0.000 | 0.65 | 11 | \$249.00 | Installation of wifi smart thermostat in homes with non-electric heating and air conditioning | 57.9% | 23.2% | 0.41 |
| 3000 | Domestic Hot Water | | | | | | | | | | | | | | |
| 3001 | Water Heater Temperature Setback | SFD | NLI | Retrofit | 1,966.9 | 7.7% | 151.3 | 0.012 | 1.00 | 4 | \$5.00 | Lowering water heater setpoint from 130 to 120 degrees | 52.0% | 81.6% | 5.42 |
| 3002 | Water Heater Pipe Insulation | SFD | NLI | Retrofit | 3,338.0 | 3.0% | 100.0 | 0.008 | 1.00 | 13 | \$30.00 | Installation of foam insulation on 10 feet of exposed pipe in unconditioned 3/4" thick. | 52.0% | 21.0% | 1.68 |
| 3003 | Low Flow Faucet Aerators - Bathroom | SFD | NLI | Retrofit | 71.2 | 31.9% | 22.7 | 0.003 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in bathroom to replace standard flow aerator | 144.1% | 16.0% | 7.03 |
| 3004 | Low Flow Faucet Aerators - Kitchen | SFD | NLI | Retrofit | 613.3 | 31.9% | 195.9 | 0.026 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in kitchen to replace standard flow aerator | 52.0% | 16.0% | 60.55 |
| 3005 | Low Flow Showerheads | SFD | NLI | Retrofit | 903.2 | 40.0% | 361.3 | 0.029 | 1.00 | 9 | \$6.00 | Installation of low flow showerhead in to replace standard flow showerhead | 90.1% | 21.0% | 21.77 |
| 3006 | Thermostatic Shower Restriction Valve | SFD | ALL | Retrofit | 106.1 | 100.0% | 106.1 | 0.009 | 1.00 | 10 | \$30.00 | Installation of thermostatic restriction valve to reduce hot water usage during shower warm-up in homes with electric water heating | 90.1% | 1.0% | 1.41 |
| 3007 | Drain Water Heat Recovery Device | SFD | NLI | Retrofit | 556.5 | 45.4% | 252.7 | 0.041 | 0.70 | 20 | \$1,022.00 | Installation of a drain water heat recovery device to recapture heated wastewater in homes with electric water heating | 52.0% | 1.0% | 0.15 |
| 3008 | Water Heater Tank Wrap | SFD | NLI | Retrofit | 389.1 | 54.9% | 213.6 | 0.024 | 1.00 | 7 | \$50.00 | Installation of insulated tank wrap to existing residential electric hot water heaters | 52.0% | 8.0% | 1.31 |
| 3009 | Heat Pump Water Heaters (50 - 75 gallon) | SFD | NLI | ROB | 3,005.7 | 45.7% | 1,373.3 | 0.111 | 1.00 | 14 | \$945.00 | Installation of 50-75 gallon heat pump water heater instead of standard storage electric storage water heater | 44.2% | 0.0% | 0.54 |
| 3010 | Solar Water Heaters | SFD | NLI | ROB | 3,005.7 | 48.6% | 1,462.0 | 0.118 | 1.00 | 15 | \$5,384.00 | Installation of solar water heater instead of standard storage electric storage water heater | 44.2% | 0.0% | 0.16 |
| 3011 | Heat Pump Water Heaters (75+ gallon) | SFD | NLI | ROB | 1,449.6 | 2.1% | 30.1 | 0.002 | 1.00 | 14 | \$1,369.00 | Installation of 75+ gallon heat pump water heater instead of standard storage electric storage water heater | 7.8% | 0.0% | 0.01 |
| 3012 | Water Heater Temperature Setback | SFD | LI | Retrofit | 1,966.9 | 7.7% | 151.3 | 0.012 | 1.00 | 4 | \$5.00 | Lowering water heater setpoint from 130 to 120 degrees | 52.0% | 81.6% | 5.42 |
| 3013 | Water Heater Pipe Insulation | SFD | LI | Retrofit | 3,338.0 | 3.0% | 100.0 | 0.008 | 1.00 | 13 | \$30.00 | Installation of solar water heater instead of standard storage electric storage water heater | 52.0% | 21.0% | 1.68 |
| 3014 | Low Flow Faucet Aerators - Bathroom | SFD | LI | Retrofit | 71.2 | 31.9% | 22.7 | 0.003 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in bathroom to replace standard flow aerator | 144.1% | 16.0% | 7.03 |
| 3015 | Low Flow Faucet Aerators - Kitchen | SFD | LI | Retrofit | 613.3 | 31.9% | 195.9 | 0.026 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in kitchen to replace standard flow aerator | 52.0% | 16.0% | 60.55 |
| 3016 | Low Flow Showerheads | SFD | LI | Retrofit | 903.2 | 40.0% | 361.3 | 0.029 | 1.00 | 9 | \$6.00 | Installation of low flow showerhead in to replace standard flow showerhead | 90.1% | 21.0% | 21.77 |
| 3017 | Drain Water Heat Recovery Device | SFD | LI | Retrofit | 556.5 | 45.4% | 252.7 | 0.041 | 0.70 | 20 | \$1,022.00 | Installation of a drain water heat recovery device to recapture heated wastewater in homes with electric water heating | 52.0% | 1.0% | 0.15 |
| 3018 | Water Heater Tank Wrap | SFD | LI | Retrofit | 389.1 | 54.9% | 213.6 | 0.024 | 1.00 | 7 | \$50.00 | Installation of insulated tank wrap to existing residential electric hot water heaters | 52.0% | 8.0% | 1.31 |
| 3019 | Heat Pump Water Heaters (50 - 75 gallon) | SFD | LI | ROB | 3,005.7 | 45.7% | 1,373.3 | 0.111 | 1.00 | 14 | \$945.00 | Installation of 50-75 gallon heat pump water heater instead of standard storage electric storage water heater | 44.2% | 0.0% | 0.54 |
| 3020 | Solar Water Heaters | SFD | LI | ROB | 3,005.7 | 48.6% | 1,462.0 | 0.118 | 1.00 | 15 | \$5,384.00 | Installation of solar water heater instead of standard storage electric storage water heater | 44.2% | 0.0% | 0.16 |
| 3021 | Heat Pump Water Heaters (75+ gallon) | SFD | LI | ROB | 1,449.6 | 2.1% | 30.1 | 0.002 | 1.00 | 14 | \$1,369.00 | Installation of 75+ gallon heat pump water heater instead of standard storage electric storage water heater | 7.8% | 0.0% | 0.01 |
| 3022 | Water Heater Temperature Setback | SFD | ALL | NC | 1,966.9 | 7.7% | 151.3 | 0.012 | 1.00 | 4 | \$5.00 | Lowering water heater setpoint from 130 to 120 degrees | 57.0% | 0.0% | 5.42 |
| 3023 | Water Heater Pipe Insulation | SFD | ALL | NC | 3,338.0 | 3.0% | 100.0 | 0.008 | 1.00 | 13 | \$30.00 | Installation of foam insulation on 10 feet of exposed pipe in unconditioned 3/4" thick. | 57.0% | 0.0% | 1.68 |
| 3024 | Low Flow Faucet Aerators - Bathroom | SFD | ALL | NC | 71.2 | 31.9% | 22.7 | 0.003 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in bathroom to replace standard flow aerator | 158.0% | 0.0% | 7.03 |
| 3025 | Low Flow Faucet Aerators - Kitchen | SFD | ALL | NC | 613.3 | 31.9% | 195.9 | 0.026 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in kitchen to replace standard flow aerator | 57.0% | 0.0% | 60.55 |
| 3026 | Low Flow Showerheads | SFD | ALL | NC | 903.2 | 40.0% | 361.3 | 0.029 | 1.00 | 9 | \$6.00 | Installation of low flow showerhead in to replace standard flow showerhead | 98.8% | 0.0% | 21.77 |
| 3027 | Thermostatic Shower Restriction Valve | SFD | ALL | NC | 106.1 | 100.0% | 106.1 | 0.009 | 1.00 | 10 | \$30.00 | Installation of thermostatic restriction valve to reduce hot water usage during shower warm-up in homes with electric water heating | 98.8% | 0.0% | 1.41 |

Measure Assumptions - PPL

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|---|-----------------|---------------|-------------------|
| 3028 | Drain Water Heat Recovery Device | SFD | ALL | NC | 556.5 | 45.4% | 252.7 | 0.041 | 0.70 | 20 | \$1,022.00 | Installation of a drain water heat recovery device to recapture heated wastewater in homes with electric water heating | 57.0% | 0.0% | 0.15 |
| 3029 | Water Heater Tank Wrap | SFD | ALL | NC | 389.1 | 54.9% | 213.6 | 0.024 | 1.00 | 7 | \$50.00 | Installation of insulated tank wrap to existing residential electric hot water heaters | 57.0% | 0.0% | 1.31 |
| 3030 | Heat Pump Water Heaters (50 - 75 gallon) | SFD | ALL | NC | 3,005.7 | 45.7% | 1,373.3 | 0.111 | 1.00 | 14 | \$945.00 | Installation of 50-75 gallon heat pump water heater instead of standard storage electric storage water heater | 48.5% | 0.0% | 0.54 |
| 3031 | Solar Water Heaters | SFD | ALL | NC | 3,005.7 | 48.6% | 1,462.0 | 0.118 | 1.00 | 15 | \$5,384.00 | Installation of solar water heater instead of standard storage electric storage water heater | 48.5% | 0.0% | 0.16 |
| 3032 | Heat Pump Water Heaters (75+ gallon) | SFD | ALL | NC | 1,449.6 | 2.1% | 30.1 | 0.002 | 1.00 | 14 | \$1,369.00 | Installation of 75+ gallon heat pump water heater instead of standard storage electric storage water heater | 8.5% | 0.0% | 0.01 |
| 3033 | Water Heater Temperature Setback | SFA | NLI | Retrofit | 1,966.9 | 7.7% | 151.3 | 0.012 | 1.00 | 4 | \$5.00 | Lowering water heater setpoint from 130 to 120 degrees | 52.0% | 81.6% | 5.42 |
| 3034 | Water Heater Pipe Insulation | SFA | NLI | Retrofit | 3,338.0 | 3.0% | 100.0 | 0.008 | 1.00 | 13 | \$30.00 | Installation of foam insulation on 10 feet of exposed pipe in unconditioned 3/4" thick. | 52.0% | 21.0% | 1.68 |
| 3035 | Low Flow Faucet Aerators - Bathroom | SFA | NLI | Retrofit | 71.2 | 31.9% | 22.7 | 0.003 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in bathroom to replace standard flow aerator | 109.8% | 16.0% | 7.03 |
| 3036 | Low Flow Faucet Aerators - Kitchen | SFA | NLI | Retrofit | 613.3 | 31.9% | 195.9 | 0.026 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in kitchen to replace standard flow aerator | 52.0% | 16.0% | 60.55 |
| 3037 | Low Flow Showerheads | SFA | NLI | Retrofit | 903.2 | 40.0% | 361.3 | 0.029 | 1.00 | 9 | \$6.00 | Installation of low flow showerhead in to replace standard flow showerhead | 83.2% | 21.0% | 21.77 |
| 3038 | Thermostatic Shower Restriction Valve | SFA | ALL | Retrofit | 106.1 | 100.0% | 106.1 | 0.009 | 1.00 | 10 | \$30.00 | Installation of thermostatic restriction valve to reduce hot water usage during shower warm-up in homes with electric water heating | 83.2% | 1.0% | 1.41 |
| 3039 | Drain Water Heat Recovery Device | SFA | NLI | Retrofit | 556.5 | 45.4% | 252.7 | 0.041 | 0.70 | 20 | \$1,022.00 | Installation of a drain water heat recovery device to recapture heated wastewater in homes with electric water heating | 52.0% | 1.0% | 0.15 |
| 3040 | Water Heater Tank Wrap | SFA | NLI | Retrofit | 389.1 | 54.9% | 213.6 | 0.024 | 1.00 | 7 | \$50.00 | Installation of insulated tank wrap to existing residential electric hot water heaters | 52.0% | 8.0% | 1.31 |
| 3041 | Heat Pump Water Heaters (50 - 75 gallon) | SFA | NLI | ROB | 3,005.7 | 45.7% | 1,373.3 | 0.111 | 1.00 | 14 | \$945.00 | Installation of 50-75 gallon heat pump water heater instead of standard storage electric storage water heater | 44.2% | 0.0% | 0.54 |
| 3042 | Solar Water Heaters | SFA | NLI | ROB | 3,005.7 | 48.6% | 1,462.0 | 0.118 | 1.00 | 15 | \$5,384.00 | Installation of solar water heater instead of standard storage electric storage water heater | 44.2% | 0.0% | 0.16 |
| 3043 | Heat Pump Water Heaters (75+ gallon) | SFA | NLI | ROB | 1,449.6 | 2.1% | 30.1 | 0.002 | 1.00 | 14 | \$1,369.00 | Installation of 75+ gallon heat pump water heater instead of standard storage electric storage water heater | 7.8% | 0.0% | 0.01 |
| 3044 | Water Heater Temperature Setback | SFA | LI | Retrofit | 1,966.9 | 7.7% | 151.3 | 0.012 | 1.00 | 4 | \$5.00 | Lowering water heater setpoint from 130 to 120 degrees | 52.0% | 81.6% | 5.42 |
| 3045 | Water Heater Pipe Insulation | SFA | LI | Retrofit | 3,338.0 | 3.0% | 100.0 | 0.008 | 1.00 | 13 | \$30.00 | Installation of foam insulation on 10 feet of exposed pipe in unconditioned 3/4" thick. | 52.0% | 21.0% | 1.68 |
| 3046 | Low Flow Faucet Aerators - Bathroom | SFA | LI | Retrofit | 71.2 | 31.9% | 22.7 | 0.003 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in bathroom to replace standard flow aerator | 109.8% | 16.0% | 7.03 |
| 3047 | Low Flow Faucet Aerators - Kitchen | SFA | LI | Retrofit | 613.3 | 31.9% | 195.9 | 0.026 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in kitchen to replace standard flow aerator | 52.0% | 16.0% | 60.55 |
| 3048 | Low Flow Showerheads | SFA | LI | Retrofit | 903.2 | 40.0% | 361.3 | 0.029 | 1.00 | 9 | \$6.00 | Installation of low flow showerhead in to replace standard flow showerhead | 83.2% | 21.0% | 21.77 |
| 3049 | Drain Water Heat Recovery Device | SFA | LI | Retrofit | 556.5 | 45.4% | 252.7 | 0.041 | 0.70 | 20 | \$1,022.00 | Installation of a drain water heat recovery device to recapture heated wastewater in homes with electric water heating | 52.0% | 1.0% | 0.15 |
| 3050 | Water Heater Tank Wrap | SFA | LI | Retrofit | 389.1 | 54.9% | 213.6 | 0.024 | 1.00 | 7 | \$50.00 | Installation of insulated tank wrap to existing residential electric hot water heaters | 52.0% | 8.0% | 1.31 |
| 3051 | Heat Pump Water Heaters (50 - 75 gallon) | SFA | LI | ROB | 3,005.7 | 45.7% | 1,373.3 | 0.111 | 1.00 | 14 | \$945.00 | Installation of 50-75 gallon heat pump water heater instead of standard storage electric storage water heater | 44.2% | 0.0% | 0.54 |
| 3052 | Solar Water Heaters | SFA | LI | ROB | 3,005.7 | 48.6% | 1,462.0 | 0.118 | 1.00 | 15 | \$5,384.00 | Installation of solar water heater instead of standard storage electric storage water heater | 44.2% | 0.0% | 0.16 |
| 3053 | Heat Pump Water Heaters (75+ gallon) | SFA | LI | ROB | 1,449.6 | 2.1% | 30.1 | 0.002 | 1.00 | 14 | \$1,369.00 | Installation of 75+ gallon heat pump water heater instead of standard storage electric storage water heater | 7.8% | 0.0% | 0.01 |
| 3054 | Water Heater Temperature Setback | SFA | ALL | NC | 1,966.9 | 7.7% | 151.3 | 0.012 | 1.00 | 4 | \$5.00 | Lowering water heater setpoint from 130 to 120 degrees | 57.0% | 0.0% | 5.42 |
| 3055 | Water Heater Pipe Insulation | SFA | ALL | NC | 3,338.0 | 3.0% | 100.0 | 0.008 | 1.00 | 13 | \$30.00 | Installation of foam insulation on 10 feet of exposed pipe in unconditioned 3/4" thick. | 57.0% | 0.0% | 1.68 |
| 3056 | Low Flow Faucet Aerators - Bathroom | SFA | ALL | NC | 71.2 | 31.9% | 22.7 | 0.003 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in bathroom to replace standard flow aerator | 120.4% | 0.0% | 7.03 |
| 3057 | Low Flow Faucet Aerators - Kitchen | SFA | ALL | NC | 613.3 | 31.9% | 195.9 | 0.026 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in kitchen to replace standard flow aerator | 57.0% | 0.0% | 60.55 |
| 3058 | Low Flow Showerheads | SFA | ALL | NC | 903.2 | 40.0% | 361.3 | 0.029 | 1.00 | 9 | \$6.00 | Installation of low flow showerhead in to replace standard flow showerhead | 91.2% | 0.0% | 21.77 |
| 3059 | Thermostatic Shower Restriction Valve | SFA | ALL | NC | 106.1 | 100.0% | 106.1 | 0.009 | 1.00 | 10 | \$30.00 | Installation of thermostatic restriction valve to reduce hot water usage during shower warm-up in homes with electric water heating | 91.2% | 0.0% | 1.41 |
| 3060 | Drain Water Heat Recovery Device | SFA | ALL | NC | 556.5 | 45.4% | 252.7 | 0.041 | 0.70 | 20 | \$1,022.00 | Installation of a drain water heat recovery device to recapture heated wastewater in homes with electric water heating | 57.0% | 0.0% | 0.15 |

Measure Assumptions - PPL

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|---|-----------------|---------------|-------------------|
| 3061 | Water Heater Tank Wrap | SFA | ALL | NC | 389.1 | 54.9% | 213.6 | 0.024 | 1.00 | 7 | \$50.00 | Installation of insulated tank wrap to existing residential electric hot water heaters | 57.0% | 0.0% | 1.31 |
| 3062 | Heat Pump Water Heaters (50 - 75 gallon) | SFA | ALL | NC | 3,005.7 | 45.7% | 1,373.3 | 0.111 | 1.00 | 14 | \$945.00 | Installation of 50-75 gallon heat pump water heater instead of standard storage electric storage water heater | 48.5% | 0.0% | 0.54 |
| 3063 | Solar Water Heaters | SFA | ALL | NC | 3,005.7 | 48.6% | 1,462.0 | 0.118 | 1.00 | 15 | \$5,384.00 | Installation of solar water heater instead of standard storage electric storage water heater | 48.5% | 0.0% | 0.16 |
| 3064 | Heat Pump Water Heaters (75+ gallon) | SFA | ALL | NC | 1,449.6 | 2.1% | 30.1 | 0.002 | 1.00 | 14 | \$1,369.00 | Installation of 75+ gallon heat pump water heater instead of standard storage electric storage water heater | 8.5% | 0.0% | 0.01 |
| 3065 | Water Heater Temperature Setback | MF | NLI | Retrofit | 1,966.9 | 7.7% | 151.3 | 0.012 | 1.00 | 4 | \$5.00 | Lowering water heater setpoint from 130 to 120 degrees | 52.0% | 81.6% | 5.42 |
| 3066 | Water Heater Pipe Insulation | MF | NLI | Retrofit | 3,338.0 | 3.0% | 100.0 | 0.008 | 1.00 | 13 | \$30.00 | Installation of foam insulation on 10 feet of exposed pipe in unconditioned 3/4" thick. | 52.0% | 21.0% | 1.68 |
| 3067 | Low Flow Faucet Aerators - Bathroom | MF | NLI | Retrofit | 120.7 | 31.9% | 38.5 | 0.005 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in bathroom to replace standard flow aerator | 65.7% | 16.0% | 11.92 |
| 3068 | Low Flow Faucet Aerators - Kitchen | MF | NLI | Retrofit | 485.6 | 31.9% | 155.1 | 0.021 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in kitchen to replace standard flow aerator | 52.0% | 16.0% | 47.93 |
| 3069 | Low Flow Showerheads | MF | NLI | Retrofit | 845.0 | 40.0% | 338.0 | 0.027 | 1.00 | 9 | \$6.00 | Installation of low flow showerhead in to replace standard flow showerhead | 76.3% | 21.0% | 20.37 |
| 3070 | Thermostatic Shower Restriction Valve | MF | ALL | Retrofit | 99.3 | 100.0% | 99.3 | 0.008 | 1.00 | 10 | \$30.00 | Installation of thermostatic restriction valve to reduce hot water usage during shower warm-up in homes with electric water heating | 76.3% | 1.0% | 1.32 |
| 3071 | Drain Water Heat Recovery Device | MF | NLI | Retrofit | 371.0 | 45.4% | 168.4 | 0.027 | 0.70 | 20 | \$1,022.00 | Installation of a drain water heat recovery device to recapture heated wastewater in homes with electric water heating | 52.0% | 1.0% | 0.10 |
| 3072 | Water Heater Tank Wrap | MF | NLI | Retrofit | 389.1 | 54.9% | 213.6 | 0.024 | 1.00 | 7 | \$50.00 | Installation of insulated tank wrap to existing residential electric hot water heaters | 52.0% | 8.0% | 1.31 |
| 3073 | Heat Pump Water Heaters (50 - 75 gallon) | MF | NLI | ROB | 3,005.7 | 45.7% | 1,373.3 | 0.111 | 1.00 | 14 | \$945.00 | Installation of 50-75 gallon heat pump water heater instead of standard storage electric storage water heater | 44.2% | 0.0% | 0.54 |
| 3074 | Solar Water Heaters | MF | NLI | ROB | 3,005.7 | 48.6% | 1,462.0 | 0.118 | 1.00 | 15 | \$5,384.00 | Installation of solar water heater instead of standard storage electric storage water heater | 44.2% | 0.0% | 0.16 |
| 3075 | Heat Pump Water Heaters (75+ gallon) | MF | NLI | ROB | 1,449.6 | 2.1% | 30.1 | 0.002 | 1.00 | 14 | \$1,369.00 | Installation of 75+ gallon heat pump water heater instead of standard storage electric storage water heater | 7.8% | 0.0% | 0.01 |
| 3076 | Water Heater Temperature Setback | MF | LI | Retrofit | 1,966.9 | 7.7% | 151.3 | 0.012 | 1.00 | 4 | \$5.00 | Lowering water heater setpoint from 130 to 120 degrees | 52.0% | 81.6% | 5.42 |
| 3077 | Water Heater Pipe Insulation | MF | LI | Retrofit | 3,338.0 | 3.0% | 100.0 | 0.008 | 1.00 | 13 | \$30.00 | Installation of foam insulation on 10 feet of exposed pipe in unconditioned 3/4" thick. | 52.0% | 21.0% | 1.68 |
| 3078 | Low Flow Faucet Aerators - Bathroom | MF | LI | Retrofit | 120.7 | 31.9% | 38.5 | 0.005 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in bathroom to replace standard flow aerator | 65.7% | 16.0% | 11.92 |
| 3079 | Low Flow Faucet Aerators - Kitchen | MF | LI | Retrofit | 485.6 | 31.9% | 155.1 | 0.021 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in kitchen to replace standard flow aerator | 52.0% | 16.0% | 47.93 |
| 3080 | Low Flow Showerheads | MF | LI | Retrofit | 845.0 | 40.0% | 338.0 | 0.027 | 1.00 | 9 | \$6.00 | Installation of low flow showerhead in to replace standard flow showerhead | 76.3% | 21.0% | 20.37 |
| 3081 | Drain Water Heat Recovery Device | MF | LI | Retrofit | 371.0 | 45.4% | 168.4 | 0.027 | 0.70 | 20 | \$1,022.00 | Installation of a drain water heat recovery device to recapture heated wastewater in homes with electric water heating | 52.0% | 1.0% | 0.10 |
| 3082 | Water Heater Tank Wrap | MF | LI | Retrofit | 389.1 | 54.9% | 213.6 | 0.024 | 1.00 | 7 | \$50.00 | Installation of insulated tank wrap to existing residential electric hot water heaters | 52.0% | 8.0% | 1.31 |
| 3083 | Heat Pump Water Heaters (50 - 75 gallon) | MF | LI | ROB | 3,005.7 | 45.7% | 1,373.3 | 0.111 | 1.00 | 14 | \$945.00 | Installation of 50-75 gallon heat pump water heater instead of standard storage electric storage water heater | 44.2% | 0.0% | 0.54 |
| 3084 | Solar Water Heaters | MF | LI | ROB | 3,005.7 | 48.6% | 1,462.0 | 0.118 | 1.00 | 15 | \$5,384.00 | Installation of solar water heater instead of standard storage electric storage water heater | 44.2% | 0.0% | 0.16 |
| 3085 | Heat Pump Water Heaters (75+ gallon) | MF | LI | ROB | 1,449.6 | 2.1% | 30.1 | 0.002 | 1.00 | 14 | \$1,369.00 | Installation of 75+ gallon heat pump water heater instead of standard storage electric storage water heater | 7.8% | 0.0% | 0.01 |
| 3086 | Water Heater Temperature Setback | MF | ALL | NC | 1,966.9 | 7.7% | 151.3 | 0.012 | 1.00 | 4 | \$5.00 | Lowering water heater setpoint from 130 to 120 degrees | 57.0% | 0.0% | 5.42 |
| 3087 | Water Heater Pipe Insulation | MF | ALL | NC | 3,338.0 | 3.0% | 100.0 | 0.008 | 1.00 | 13 | \$30.00 | Installation of foam insulation on 10 feet of exposed pipe in unconditioned 3/4" thick. | 57.0% | 0.0% | 1.68 |
| 3088 | Low Flow Faucet Aerators - Bathroom | MF | ALL | NC | 120.7 | 31.9% | 38.5 | 0.005 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in bathroom to replace standard flow aerator | 72.0% | 0.0% | 11.92 |
| 3089 | Low Flow Faucet Aerators - Kitchen | MF | ALL | NC | 485.6 | 31.9% | 155.1 | 0.021 | 1.00 | 12 | \$1.61 | Installation of low flow faucet aerator in kitchen to replace standard flow aerator | 57.0% | 0.0% | 47.93 |
| 3090 | Low Flow Showerheads | MF | ALL | NC | 845.0 | 40.0% | 338.0 | 0.027 | 1.00 | 9 | \$6.00 | Installation of low flow showerhead in to replace standard flow showerhead | 83.6% | 0.0% | 20.37 |
| 3091 | Thermostatic Shower Restriction Valve | MF | ALL | NC | 99.3 | 100.0% | 99.3 | 0.008 | 1.00 | 10 | \$30.00 | Installation of thermostatic restriction valve to reduce hot water usage during shower warm-up in homes with electric water heating | 83.6% | 0.0% | 1.32 |
| 3092 | Drain Water Heat Recovery Device | MF | ALL | NC | 371.0 | 45.4% | 168.4 | 0.027 | 0.70 | 20 | \$1,022.00 | Installation of a drain water heat recovery device to recapture heated wastewater in homes with electric water heating | 57.0% | 0.0% | 0.10 |
| 3093 | Water Heater Tank Wrap | MF | ALL | NC | 389.1 | 54.9% | 213.6 | 0.024 | 1.00 | 7 | \$50.00 | Installation of insulated tank wrap to existing residential electric hot water heaters | 57.0% | 0.0% | 1.31 |
| 3094 | Heat Pump Water Heaters (50 - 75 gallon) | MF | ALL | NC | 3,005.7 | 45.7% | 1,373.3 | 0.111 | 1.00 | 14 | \$945.00 | Installation of 50-75 gallon heat pump water heater instead of standard storage electric storage water heater | 48.5% | 0.0% | 0.54 |

Measure Assumptions - PPL

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|--|-----------------|---------------|-------------------|
| 3095 | Solar Water Heaters | MF | ALL | NC | 3,005.7 | 48.6% | 1,462.0 | 0.118 | 1.00 | 15 | \$5,384.00 | Installation of solar water heater instead of standard storage electric storage water heater | 48.5% | 0.0% | 0.16 |
| 3096 | Heat Pump Water Heaters (75+ gallon) | MF | ALL | NC | 1,449.6 | 2.1% | 30.1 | 0.002 | 1.00 | 14 | \$1,369.00 | Installation of 75+ gallon heat pump water heater instead of standard storage electric storage water heater | 8.5% | 0.0% | 0.01 |
| 4000 | Appliances | | | | | | | | | | | | | | |
| 4001 | Refrigerator Recycling with Replacement | SFD | NLI | Retrofit | 1,072.2 | 45.6% | 488.9 | 0.055 | 1.00 | 7 | \$120.00 | Retirement and replacement of non-primary refrigerators in homes with more than one refrigerator; replacement unit assumed to be standard efficiency model | 36.5% | 0.0% | 1.31 |
| 4002 | Refrigerator Recycling without Replacement | SFD | NLI | Retrofit | 1,072.2 | 100.0% | 1,072.2 | 0.120 | 1.00 | 8 | \$120.00 | Retirement (no replacement) of non-primary refrigerators in homes with more than one refrigerator | 36.5% | 0.0% | 3.20 |
| 4003 | Freezer Recycling with Replacement | SFD | ALL | Retrofit | 1,058.1 | 50.9% | 539.1 | 0.060 | 1.00 | 7 | \$120.00 | Retirement and replacement of non-primary freezers in homes with more than one freezer; replacement unit assumed to be standard efficiency model | 1.0% | 0.0% | 1.44 |
| 4004 | Freezer Recycling without Replacement | SFD | ALL | Retrofit | 1,058.1 | 100.0% | 1,058.1 | 0.118 | 1.00 | 8 | \$120.00 | Retirement (no replacement) of non-primary refrigerators in homes with more than one refrigerator | 1.0% | 0.0% | 3.16 |
| 4005 | ENERGY STAR Refrigerators (Top-Mount) | SFD | NLI | ROB | 462.2 | 8.2% | 37.9 | 0.004 | 1.00 | 12 | \$21.83 | Installation of ENERGY STAR top-mount refrigerator instead of standard efficiency unit | 46.0% | 32.0% | 0.88 |
| 4006 | ENERGY STAR Refrigerators (Side-by-Side) | SFD | NLI | ROB | 608.9 | 8.6% | 52.5 | 0.006 | 1.00 | 12 | \$57.31 | Installation of ENERGY STAR side-mount refrigerator instead of standard efficiency unit | 24.0% | 32.0% | 0.47 |
| 4007 | ENERGY STAR Refrigerators (Bottom-Mount) | SFD | NLI | ROB | 644.2 | 8.7% | 55.9 | 0.006 | 1.00 | 12 | \$17.29 | Installation of ENERGY STAR bottom-mount refrigerator instead of standard efficiency unit | 16.0% | 32.0% | 1.65 |
| 4008 | ENERGY STAR Freezers (Upright) | SFD | NLI | ROB | 483.2 | 9.1% | 44.0 | 0.005 | 1.00 | 12 | \$6.75 | Installation of ENERGY STAR upright freezers instead of standard efficiency unit | 18.4% | 17.0% | 3.33 |
| 4009 | ENERGY STAR Freezers (Chest) | SFD | NLI | ROB | 290.1 | 10.0% | 29.0 | 0.003 | 1.00 | 12 | \$5.23 | Installation of ENERGY STAR chest freezers instead of standard efficiency unit | 28.8% | 17.0% | 2.83 |
| 4010 | ENERGY STAR Clothes Washers (Electric Water Heating) | SFD | NLI | ROB | 498.7 | 35.4% | 176.5 | 0.706 | 0.029 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 12.9% | 32.0% | 1.67 |
| 4011 | ENERGY STAR Clothes Washers (Gas Water Heating) | SFD | NLI | ROB | 273.8 | 18.5% | 50.6 | 0.202 | 0.029 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with gas water heating | 79.1% | 32.0% | 0.48 |
| 4012 | ENERGY STAR Dishwashers (Electric Water Heating) | SFD | ALL | ROB | 307.0 | 12.1% | 37.0 | 0.158 | 0.026 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with electric water heating | 36.5% | 48.0% | 1.60 |
| 4013 | ENERGY STAR Dishwashers (Gas Water Heating) | SFD | ALL | ROB | 135.1 | 12.1% | 16.3 | 0.070 | 0.026 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with gas water heating | 15.8% | 48.0% | 0.70 |
| 4014 | ENERGY STAR Dehumidifiers | SFD | NLI | ROB | 792.4 | 18.9% | 149.9 | 0.092 | 0.41 | 12 | \$20.21 | Installation of ENERGY STAR dehumidifier instead of standard efficiency unit | 53.4% | 83.9% | 4.30 |
| 4015 | ENERGY STAR Water Coolers | SFD | ALL | ROB | 799.4 | 60.3% | 481.8 | 0.055 | 1.00 | 10 | \$50.00 | Installation of ENERGY STAR water cooler instead of standard efficiency unit | 1.2% | 68.5% | 4.18 |
| 4016 | ENERGY STAR Air Purifier/Cleaner | SFD | ALL | ROB | 587.0 | 66.6% | 391.0 | 0.067 | 1.00 | 9 | \$70.00 | Installation of ENERGY STAR air purifier instead of standard efficiency unit | 16.6% | 33.3% | 2.33 |
| 4017 | ENERGY STAR Dryers | SFD | ALL | ROB | 538.0 | 5.1% | 27.4 | 0.115 | 0.04 | 13 | \$50.00 | Installation of ENERGY STAR dryer instead of standard efficiency unit in homes with electric dryers | 80.0% | 25.0% | 0.32 |
| 4018 | Refrigerator Recycling with Replacement | SFD | LI | Retrofit | 1,072.2 | 45.6% | 488.9 | 0.055 | 1.00 | 7 | \$120.00 | Retirement and replacement of non-primary refrigerators in homes with more than one refrigerator; replacement unit assumed to be standard efficiency model | 36.5% | 0.0% | 1.31 |
| 4019 | Refrigerator Recycling without Replacement | SFD | LI | Retrofit | 1,072.2 | 100.0% | 1,072.2 | 0.120 | 1.00 | 8 | \$120.00 | Retirement (no replacement) of non-primary refrigerators in homes with more than one refrigerator | 36.5% | 0.0% | 3.20 |
| 4020 | ENERGY STAR Refrigerators (Top-Mount) | SFD | LI | ROB | 462.2 | 8.2% | 37.9 | 0.004 | 1.00 | 12 | \$21.83 | Installation of ENERGY STAR top-mount refrigerator instead of standard efficiency unit | 46.0% | 32.0% | 0.88 |
| 4021 | ENERGY STAR Refrigerators (Side-by-Side) | SFD | LI | ROB | 608.9 | 8.6% | 52.5 | 0.006 | 1.00 | 12 | \$57.31 | Installation of ENERGY STAR side-mount refrigerator instead of standard efficiency unit | 24.0% | 32.0% | 0.47 |
| 4022 | ENERGY STAR Refrigerators (Bottom-Mount) | SFD | LI | ROB | 644.2 | 8.7% | 55.9 | 0.006 | 1.00 | 12 | \$17.29 | Installation of ENERGY STAR bottom-mount refrigerator instead of standard efficiency unit | 16.0% | 32.0% | 1.65 |
| 4023 | ENERGY STAR Freezers (Upright) | SFD | LI | ROB | 483.2 | 9.1% | 44.0 | 0.005 | 1.00 | 12 | \$6.75 | Installation of ENERGY STAR upright freezers instead of standard efficiency unit | 18.4% | 17.0% | 3.33 |
| 4024 | ENERGY STAR Freezers (Chest) | SFD | LI | ROB | 290.1 | 10.0% | 29.0 | 0.003 | 1.00 | 12 | \$5.23 | Installation of ENERGY STAR chest freezers instead of standard efficiency unit | 28.8% | 17.0% | 2.83 |
| 4025 | ENERGY STAR Clothes Washers (Electric Water Heating) | SFD | LI | ROB | 498.7 | 35.4% | 176.5 | 0.706 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 12.9% | 32.0% | 1.67 |
| 4026 | ENERGY STAR Clothes Washers (Gas Water Heating) | SFD | LI | ROB | 273.8 | 18.5% | 50.6 | 0.202 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with gas water heating | 79.1% | 32.0% | 0.48 |
| 4027 | ENERGY STAR Dehumidifiers | SFD | LI | ROB | 792.4 | 18.9% | 149.9 | 0.092 | 0.41 | 12 | \$20.21 | Installation of ENERGY STAR dehumidifier instead of standard efficiency unit | 53.4% | 83.9% | 4.30 |
| 4028 | ENERGY STAR Refrigerators (Top-Mount) | SFD | ALL | NC | 462.2 | 8.2% | 37.9 | 0.004 | 1.00 | 12 | \$21.83 | Installation of ENERGY STAR top-mount refrigerator instead of standard efficiency unit | 46.0% | 0.0% | 0.88 |
| 4029 | ENERGY STAR Refrigerators (Side-by-Side) | SFD | ALL | NC | 608.9 | 8.6% | 52.5 | 0.006 | 1.00 | 12 | \$57.31 | Installation of ENERGY STAR side-mount refrigerator instead of standard efficiency unit | 24.0% | 0.0% | 0.47 |
| 4030 | ENERGY STAR Refrigerators (Bottom-Mount) | SFD | ALL | NC | 644.2 | 8.7% | 55.9 | 0.006 | 1.00 | 12 | \$17.29 | Installation of ENERGY STAR bottom-mount refrigerator instead of standard efficiency unit | 16.0% | 0.0% | 1.65 |

Measure Assumptions - PPL

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|--|-----------------|---------------|-------------------|
| 4031 | ENERGY STAR Freezers (Upright) | SFD | ALL | NC | 483.2 | 9.1% | 44.0 | 0.005 | 1.00 | 12 | \$6.75 | Installation of ENERGY STAR upright freezers instead of standard efficiency unit | 18.4% | 0.0% | 3.33 |
| 4032 | ENERGY STAR Freezers (Chest) | SFD | ALL | NC | 290.1 | 10.0% | 29.0 | 0.003 | 1.00 | 12 | \$5.23 | Installation of ENERGY STAR chest freezers instead of standard efficiency unit | 28.8% | 0.0% | 2.83 |
| 4033 | ENERGY STAR Clothes Washers (Electric Water Heating) | SFD | ALL | NC | 498.7 | 35.4% | 176.5 | 0.706 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 13.6% | 0.0% | 1.67 |
| 4034 | ENERGY STAR Clothes Washers (Gas Water Heating) | SFD | ALL | NC | 273.8 | 18.5% | 50.6 | 0.202 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 83.4% | 0.0% | 0.48 |
| 4035 | ENERGY STAR Dishwashers (Electric Water Heating) | SFD | ALL | NC | 307.0 | 12.1% | 37.0 | 0.158 | 0.03 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with electric water heating | 52.8% | 0.0% | 1.60 |
| 4036 | ENERGY STAR Dishwashers (Gas Water Heating) | SFD | ALL | NC | 135.1 | 12.1% | 16.3 | 0.070 | 0.03 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with gas water heating | 22.8% | 0.0% | 0.70 |
| 4037 | ENERGY STAR Dehumidifiers | SFD | ALL | NC | 792.4 | 18.9% | 149.9 | 0.092 | 0.41 | 12 | \$20.21 | Installation of ENERGY STAR dehumidifier instead of standard efficiency unit | 53.4% | 0.0% | 4.30 |
| 4038 | ENERGY STAR Water Coolers | SFD | ALL | NC | 799.4 | 60.3% | 481.8 | 0.055 | 1.00 | 10 | \$50.00 | Installation of ENERGY STAR water cooler instead of standard efficiency unit | 1.2% | 0.0% | 4.18 |
| 4039 | ENERGY STAR Air Purifier/Cleaner | SFD | ALL | NC | 587.0 | 66.6% | 391.0 | 0.067 | 1.00 | 9 | \$70.00 | Installation of ENERGY STAR air purifier instead of standard efficiency unit | 16.6% | 0.0% | 2.33 |
| 4040 | ENERGY STAR Dryers | SFD | ALL | NC | 538.0 | 5.1% | 27.4 | 0.115 | 0.04 | 13 | \$50.00 | Installation of ENERGY STAR dryer instead of standard efficiency unit in homes with electric dryers | 84.4% | 0.0% | 0.32 |
| 4041 | Refrigerator Recycling with Replacement | SFA | NLI | Retrofit | 1,072.2 | 45.6% | 488.9 | 0.055 | 1.00 | 7 | \$120.00 | Retirement and replacement of non-primary refrigerators in homes with more than one refrigerator; replacement unit assumed to be standard efficiency model | 19.3% | 0.0% | 1.31 |
| 4042 | Refrigerator Recycling without Replacement | SFA | NLI | Retrofit | 1,072.2 | 100.0% | 1,072.2 | 0.120 | 1.00 | 8 | \$120.00 | Retirement (no replacement) of non-primary refrigerators in homes with more than one refrigerator | 19.3% | 0.0% | 3.20 |
| 4043 | Freezer Recycling with Replacement | SFA | ALL | Retrofit | 1,058.1 | 50.9% | 539.1 | 0.060 | 1.00 | 7 | \$120.00 | Retirement and replacement of non-primary freezers in homes with more than one freezer; replacement unit assumed to be standard efficiency model | 1.0% | 0.0% | 1.44 |
| 4044 | Freezer Recycling without Replacement | SFA | ALL | Retrofit | 1,058.1 | 100.0% | 1,058.1 | 0.118 | 1.00 | 8 | \$120.00 | Retirement (no replacement) of non-primary refrigerators in homes with more than one refrigerator | 1.0% | 0.0% | 3.16 |
| 4045 | ENERGY STAR Refrigerators (Top-Mount) | SFA | NLI | ROB | 462.2 | 8.2% | 37.9 | 0.004 | 1.00 | 12 | \$21.83 | Installation of ENERGY STAR top-mount refrigerator instead of standard efficiency unit | 46.0% | 32.0% | 0.88 |
| 4046 | ENERGY STAR Refrigerators (Side-by-Side) | SFA | NLI | ROB | 608.9 | 8.6% | 52.5 | 0.006 | 1.00 | 12 | \$57.31 | Installation of ENERGY STAR side-mount refrigerator instead of standard efficiency unit | 24.0% | 32.0% | 0.47 |
| 4047 | ENERGY STAR Refrigerators (Bottom-Mount) | SFA | NLI | ROB | 644.2 | 8.7% | 55.9 | 0.006 | 1.00 | 12 | \$17.29 | Installation of ENERGY STAR bottom-mount refrigerator instead of standard efficiency unit | 16.0% | 32.0% | 1.65 |
| 4048 | ENERGY STAR Freezers (Upright) | SFA | NLI | ROB | 483.2 | 9.1% | 44.0 | 0.005 | 1.00 | 12 | \$6.75 | Installation of ENERGY STAR upright freezers instead of standard efficiency unit | 9.5% | 17.0% | 3.33 |
| 4049 | ENERGY STAR Freezers (Chest) | SFA | NLI | ROB | 290.1 | 10.0% | 29.0 | 0.003 | 1.00 | 12 | \$5.23 | Installation of ENERGY STAR chest freezers instead of standard efficiency unit | 14.9% | 17.0% | 2.83 |
| 4050 | ENERGY STAR Clothes Washers (Electric Water Heating) | SFA | NLI | ROB | 498.7 | 35.4% | 176.5 | 0.706 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 12.9% | 32.0% | 1.67 |
| 4051 | ENERGY STAR Clothes Washers (Gas Water Heating) | SFA | NLI | ROB | 273.8 | 18.5% | 50.6 | 0.202 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 79.1% | 32.0% | 0.48 |
| 4052 | ENERGY STAR Dishwashers (Electric Water Heating) | SFA | ALL | ROB | 307.0 | 12.1% | 37.0 | 0.158 | 0.03 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with electric water heating | 36.5% | 48.0% | 1.60 |
| 4053 | ENERGY STAR Dishwashers (Gas Water Heating) | SFA | ALL | ROB | 135.1 | 12.1% | 16.3 | 0.070 | 0.03 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with gas water heating | 15.8% | 48.0% | 0.70 |
| 4054 | ENERGY STAR Dehumidifiers | SFA | NLI | ROB | 792.4 | 18.9% | 149.9 | 0.092 | 0.41 | 12 | \$20.21 | Installation of ENERGY STAR dehumidifier instead of standard efficiency unit | 18.5% | 83.9% | 4.30 |
| 4055 | ENERGY STAR Water Coolers | SFA | ALL | ROB | 799.4 | 60.3% | 481.8 | 0.055 | 1.00 | 10 | \$50.00 | Installation of ENERGY STAR water cooler instead of standard efficiency unit | 1.2% | 68.5% | 4.18 |
| 4056 | ENERGY STAR Air Purifier/Cleaner | SFA | ALL | ROB | 587.0 | 66.6% | 391.0 | 0.067 | 1.00 | 9 | \$70.00 | Installation of ENERGY STAR air purifier instead of standard efficiency unit | 16.6% | 33.3% | 2.33 |
| 4057 | ENERGY STAR Dryers | SFA | ALL | ROB | 538.0 | 5.1% | 27.4 | 0.115 | 0.04 | 13 | \$50.00 | Installation of ENERGY STAR dryer instead of standard efficiency unit in homes with electric dryers | 80.0% | 25.0% | 0.32 |
| 4058 | Refrigerator Recycling with Replacement | SFA | LI | Retrofit | 1,072.2 | 45.6% | 488.9 | 0.055 | 1.00 | 7 | \$120.00 | Retirement and replacement of non-primary refrigerators in homes with more than one refrigerator; replacement unit assumed to be standard efficiency model | 19.3% | 0.0% | 1.31 |
| 4059 | Refrigerator Recycling without Replacement | SFA | LI | Retrofit | 1,072.2 | 100.0% | 1,072.2 | 0.120 | 1.00 | 8 | \$120.00 | Retirement (no replacement) of non-primary refrigerators in homes with more than one refrigerator | 19.3% | 0.0% | 3.20 |
| 4060 | ENERGY STAR Refrigerators (Top-Mount) | SFA | LI | ROB | 462.2 | 8.2% | 37.9 | 0.004 | 1.00 | 12 | \$21.83 | Installation of ENERGY STAR top-mount refrigerator instead of standard efficiency unit | 46.0% | 32.0% | 0.88 |
| 4061 | ENERGY STAR Refrigerators (Side-by-Side) | SFA | LI | ROB | 608.9 | 8.6% | 52.5 | 0.006 | 1.00 | 12 | \$57.31 | Installation of ENERGY STAR side-mount refrigerator instead of standard efficiency unit | 24.0% | 32.0% | 0.47 |

Measure Assumptions - PPL

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|--|-----------------|---------------|-------------------|
| 4062 | ENERGY STAR Refrigerators (Bottom-Mount) | SFA | LI | ROB | 644.2 | 8.7% | 55.9 | 0.006 | 1.00 | 12 | \$17.29 | Installation of ENERGY STAR bottom-mount refrigerator instead of standard efficiency unit | 16.0% | 32.0% | 1.65 |
| 4063 | ENERGY STAR Freezers (Upright) | SFA | LI | ROB | 483.2 | 9.1% | 44.0 | 0.005 | 1.00 | 12 | \$6.75 | Installation of ENERGY STAR upright freezers instead of standard efficiency unit | 9.5% | 17.0% | 3.33 |
| 4064 | ENERGY STAR Freezers (Chest) | SFA | LI | ROB | 290.1 | 10.0% | 29.0 | 0.003 | 1.00 | 12 | \$5.23 | Installation of ENERGY STAR chest freezers instead of standard efficiency unit | 14.9% | 17.0% | 2.83 |
| 4065 | ENERGY STAR Clothes Washers (Electric Water Heating) | SFA | LI | ROB | 498.7 | 35.4% | 176.5 | 0.706 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 12.9% | 32.0% | 1.67 |
| 4066 | ENERGY STAR Clothes Washers (Gas Water Heating) | SFA | LI | ROB | 273.8 | 18.5% | 50.6 | 0.202 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 79.1% | 32.0% | 0.48 |
| 4067 | ENERGY STAR Dehumidifiers | SFA | LI | ROB | 792.4 | 18.9% | 149.9 | 0.092 | 0.41 | 12 | \$20.21 | Installation of ENERGY STAR dehumidifier instead of standard efficiency unit | 18.5% | 83.9% | 4.30 |
| 4068 | ENERGY STAR Refrigerators (Top-Mount) | SFA | ALL | NC | 462.2 | 8.2% | 37.9 | 0.004 | 1.00 | 12 | \$21.83 | Installation of ENERGY STAR top-mount refrigerator instead of standard efficiency unit | 46.0% | 0.0% | 0.88 |
| 4069 | ENERGY STAR Refrigerators (Side-by-Side) | SFA | ALL | NC | 608.9 | 8.6% | 52.5 | 0.006 | 1.00 | 12 | \$57.31 | Installation of ENERGY STAR side-mount refrigerator instead of standard efficiency unit | 24.0% | 0.0% | 0.47 |
| 4070 | ENERGY STAR Refrigerators (Bottom-Mount) | SFA | ALL | NC | 644.2 | 8.7% | 55.9 | 0.006 | 1.00 | 12 | \$17.29 | Installation of ENERGY STAR bottom-mount refrigerator instead of standard efficiency unit | 16.0% | 0.0% | 1.65 |
| 4071 | ENERGY STAR Freezers (Upright) | SFA | ALL | NC | 483.2 | 9.1% | 44.0 | 0.005 | 1.00 | 12 | \$6.75 | Installation of ENERGY STAR upright freezers instead of standard efficiency unit | 9.5% | 0.0% | 3.33 |
| 4072 | ENERGY STAR Freezers (Chest) | SFA | ALL | NC | 290.1 | 10.0% | 29.0 | 0.003 | 1.00 | 12 | \$5.23 | Installation of ENERGY STAR chest freezers instead of standard efficiency unit | 14.9% | 0.0% | 2.83 |
| 4073 | ENERGY STAR Clothes Washers (Electric Water Heating) | SFA | ALL | NC | 498.7 | 35.4% | 176.5 | 0.706 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 13.6% | 0.0% | 1.67 |
| 4074 | ENERGY STAR Clothes Washers (Gas Water Heating) | SFA | ALL | NC | 273.8 | 18.5% | 50.6 | 0.202 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 83.4% | 0.0% | 0.48 |
| 4075 | ENERGY STAR Dishwashers (Electric Water Heating) | SFA | ALL | NC | 307.0 | 12.1% | 37.0 | 0.158 | 0.03 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with electric water heating | 52.8% | 0.0% | 1.60 |
| 4076 | ENERGY STAR Dishwashers (Gas Water Heating) | SFA | ALL | NC | 135.1 | 12.1% | 16.3 | 0.070 | 0.03 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with gas water heating | 22.8% | 0.0% | 0.70 |
| 4077 | ENERGY STAR Dehumidifiers | SFA | ALL | NC | 792.4 | 18.9% | 149.9 | 0.092 | 0.41 | 12 | \$20.21 | Installation of ENERGY STAR dehumidifier instead of standard efficiency unit | 18.5% | 0.0% | 4.30 |
| 4078 | ENERGY STAR Water Coolers | SFA | ALL | NC | 799.4 | 60.3% | 481.8 | 0.055 | 1.00 | 10 | \$50.00 | Installation of ENERGY STAR water cooler instead of standard efficiency unit | 1.2% | 0.0% | 4.18 |
| 4079 | ENERGY STAR Air Purifier/Cleaner | SFA | ALL | NC | 587.0 | 66.6% | 391.0 | 0.067 | 1.00 | 9 | \$70.00 | Installation of ENERGY STAR air purifier instead of standard efficiency unit | 16.6% | 0.0% | 2.33 |
| 4080 | ENERGY STAR Dryers | SFA | ALL | NC | 538.0 | 5.1% | 27.4 | 0.115 | 0.04 | 13 | \$50.00 | Installation of ENERGY STAR dryer instead of standard efficiency unit in homes with electric dryers | 84.4% | 0.0% | 0.32 |
| 4081 | Refrigerator Recycling with Replacement | MF | NLI | Retrofit | 1,072.2 | 45.6% | 488.9 | 0.055 | 1.00 | 7 | \$120.00 | Retirement and replacement of non-primary refrigerators in homes with more than one refrigerator; replacement unit assumed to be standard efficiency model | 6.3% | 0.0% | 1.31 |
| 4082 | Refrigerator Recycling without Replacement | MF | NLI | Retrofit | 1,072.2 | 100.0% | 1,072.2 | 0.120 | 1.00 | 8 | \$120.00 | Retirement (no replacement) of non-primary refrigerators in homes with more than one refrigerator | 6.3% | 0.0% | 3.20 |
| 4083 | Freezer Recycling with Replacement | MF | ALL | Retrofit | 1,058.1 | 50.9% | 539.1 | 0.060 | 1.00 | 7 | \$120.00 | Retirement and replacement of non-primary freezers in homes with more than one freezer; replacement unit assumed to be standard efficiency model | 1.0% | 0.0% | 1.44 |
| 4084 | Freezer Recycling without Replacement | MF | ALL | Retrofit | 1,058.1 | 100.0% | 1,058.1 | 0.118 | 1.00 | 8 | \$120.00 | Retirement (no replacement) of non-primary refrigerators in homes with more than one refrigerator | 1.0% | 0.0% | 3.16 |
| 4085 | ENERGY STAR Refrigerators (Top-Mount) | MF | NLI | ROB | 462.2 | 8.2% | 37.9 | 0.004 | 1.00 | 12 | \$21.83 | Installation of ENERGY STAR top-mount refrigerator instead of standard efficiency unit | 46.0% | 32.0% | 0.88 |
| 4086 | ENERGY STAR Refrigerators (Side-by-Side) | MF | NLI | ROB | 608.9 | 8.6% | 52.5 | 0.006 | 1.00 | 12 | \$57.31 | Installation of ENERGY STAR side-mount refrigerator instead of standard efficiency unit | 24.0% | 32.0% | 0.47 |
| 4087 | ENERGY STAR Refrigerators (Bottom-Mount) | MF | NLI | ROB | 644.2 | 8.7% | 55.9 | 0.006 | 1.00 | 12 | \$17.29 | Installation of ENERGY STAR bottom-mount refrigerator instead of standard efficiency unit | 16.0% | 32.0% | 1.65 |
| 4088 | ENERGY STAR Freezers (Upright) | MF | NLI | ROB | 483.2 | 9.1% | 44.0 | 0.005 | 1.00 | 12 | \$6.75 | Installation of ENERGY STAR upright freezers instead of standard efficiency unit | 8.5% | 17.0% | 3.33 |
| 4089 | ENERGY STAR Freezers (Chest) | MF | NLI | ROB | 290.1 | 10.0% | 29.0 | 0.003 | 1.00 | 12 | \$5.23 | Installation of ENERGY STAR chest freezers instead of standard efficiency unit | 13.2% | 17.0% | 2.83 |
| 4090 | ENERGY STAR Clothes Washers (Electric Water Heating) | MF | NLI | ROB | 498.7 | 35.4% | 176.5 | 0.706 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 12.9% | 32.0% | 1.67 |
| 4091 | ENERGY STAR Clothes Washers (Gas Water Heating) | MF | NLI | ROB | 273.8 | 18.5% | 50.6 | 0.202 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 79.1% | 32.0% | 0.48 |
| 4092 | ENERGY STAR Dishwashers (Electric Water Heating) | MF | ALL | ROB | 307.0 | 12.1% | 37.0 | 0.158 | 0.03 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with electric water heating | 36.5% | 48.0% | 1.60 |

Measure Assumptions - PPL

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|--|-----------------|---------------|-------------------|
| 4093 | ENERGY STAR Dishwashers (Gas Water Heating) | MF | ALL | ROB | 135.1 | 12.1% | 16.3 | 0.070 | 0.03 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with gas water heating | 15.8% | 48.0% | 0.70 |
| 4094 | ENERGY STAR Dehumidifiers | MF | NLI | ROB | 792.4 | 18.9% | 149.9 | 0.092 | 0.41 | 12 | \$20.21 | Installation of ENERGY STAR dehumidifier instead of standard efficiency unit | 6.9% | 83.9% | 4.30 |
| 4095 | ENERGY STAR Water Coolers | MF | ALL | ROB | 799.4 | 60.3% | 481.8 | 0.055 | 1.00 | 10 | \$50.00 | Installation of ENERGY STAR water cooler instead of standard efficiency unit | 1.2% | 68.5% | 4.18 |
| 4096 | ENERGY STAR Air Purifier/Cleaner | MF | ALL | ROB | 587.0 | 66.6% | 391.0 | 0.067 | 1.00 | 9 | \$70.00 | Installation of ENERGY STAR air purifier instead of standard efficiency unit | 16.6% | 33.3% | 2.33 |
| 4097 | ENERGY STAR Dryers | MF | ALL | ROB | 538.0 | 5.1% | 27.4 | 0.115 | 0.04 | 13 | \$50.00 | Installation of ENERGY STAR dryer instead of standard efficiency unit in homes with electric dryers | 80.0% | 25.0% | 0.32 |
| 4098 | Refrigerator Recycling with Replacement | MF | LI | Retrofit | 1,072.2 | 45.6% | 488.9 | 0.055 | 1.00 | 7 | \$120.00 | Retirement and replacement of non-primary refrigerators in homes with more than one refrigerator; replacement unit assumed to be standard efficiency model | 6.3% | 0.0% | 1.31 |
| 4099 | Refrigerator Recycling without Replacement | MF | LI | Retrofit | 1,072.2 | 100.0% | 1,072.2 | 0.120 | 1.00 | 8 | \$120.00 | Retirement (no replacement) of non-primary refrigerators in homes with more than one refrigerator | 6.3% | 0.0% | 3.20 |
| 4100 | ENERGY STAR Refrigerators (Top-Mount) | MF | LI | ROB | 462.2 | 8.2% | 37.9 | 0.004 | 1.00 | 12 | \$21.83 | Installation of ENERGY STAR top-mount refrigerator instead of standard efficiency unit | 46.0% | 32.0% | 0.88 |
| 4101 | ENERGY STAR Refrigerators (Side-by-Side) | MF | LI | ROB | 608.9 | 8.6% | 52.5 | 0.006 | 1.00 | 12 | \$57.31 | Installation of ENERGY STAR side-mount refrigerator instead of standard efficiency unit | 24.0% | 32.0% | 0.47 |
| 4102 | ENERGY STAR Refrigerators (Bottom-Mount) | MF | LI | ROB | 644.2 | 8.7% | 55.9 | 0.006 | 1.00 | 12 | \$17.29 | Installation of ENERGY STAR bottom-mount refrigerator instead of standard efficiency unit | 16.0% | 32.0% | 1.65 |
| 4103 | ENERGY STAR Freezers (Upright) | MF | LI | ROB | 483.2 | 9.1% | 44.0 | 0.005 | 1.00 | 12 | \$6.75 | Installation of ENERGY STAR upright freezers instead of standard efficiency unit | 8.5% | 17.0% | 3.33 |
| 4104 | ENERGY STAR Freezers (Chest) | MF | LI | ROB | 290.1 | 10.0% | 29.0 | 0.003 | 1.00 | 12 | \$5.23 | Installation of ENERGY STAR chest freezers instead of standard efficiency unit | 13.2% | 17.0% | 2.83 |
| 4105 | ENERGY STAR Clothes Washers (Electric Water Heating) | MF | LI | ROB | 498.7 | 35.4% | 176.5 | 0.706 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 12.9% | 32.0% | 1.67 |
| 4106 | ENERGY STAR Clothes Washers (Gas Water Heating) | MF | LI | ROB | 273.8 | 18.5% | 50.6 | 0.202 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 79.1% | 32.0% | 0.48 |
| 4107 | ENERGY STAR Dehumidifiers | MF | LI | ROB | 792.4 | 18.9% | 149.9 | 0.092 | 0.41 | 12 | \$20.21 | Installation of ENERGY STAR dehumidifier instead of standard efficiency unit | 6.9% | 83.9% | 4.30 |
| 4108 | ENERGY STAR Refrigerators (Top-Mount) | MF | ALL | NC | 462.2 | 8.2% | 37.9 | 0.004 | 1.00 | 12 | \$21.83 | Installation of ENERGY STAR top-mount refrigerator instead of standard efficiency unit | 46.0% | 0.0% | 0.88 |
| 4109 | ENERGY STAR Refrigerators (Side-by-Side) | MF | ALL | NC | 608.9 | 8.6% | 52.5 | 0.006 | 1.00 | 12 | \$57.31 | Installation of ENERGY STAR side-mount refrigerator instead of standard efficiency unit | 24.0% | 0.0% | 0.47 |
| 4110 | ENERGY STAR Refrigerators (Bottom-Mount) | MF | ALL | NC | 644.2 | 8.7% | 55.9 | 0.006 | 1.00 | 12 | \$17.29 | Installation of ENERGY STAR bottom-mount refrigerator instead of standard efficiency unit | 16.0% | 0.0% | 1.65 |
| 4111 | ENERGY STAR Freezers (Upright) | MF | ALL | NC | 483.2 | 9.1% | 44.0 | 0.005 | 1.00 | 12 | \$6.75 | Installation of ENERGY STAR upright freezers instead of standard efficiency unit | 8.5% | 0.0% | 3.33 |
| 4112 | ENERGY STAR Freezers (Chest) | MF | ALL | NC | 290.1 | 10.0% | 29.0 | 0.003 | 1.00 | 12 | \$5.23 | Installation of ENERGY STAR chest freezers instead of standard efficiency unit | 13.2% | 0.0% | 2.83 |
| 4113 | ENERGY STAR Clothes Washers (Electric Water Heating) | MF | ALL | NC | 498.7 | 35.4% | 176.5 | 0.706 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 13.6% | 0.0% | 1.67 |
| 4114 | ENERGY STAR Clothes Washers (Gas Water Heating) | MF | ALL | NC | 273.8 | 18.5% | 50.6 | 0.202 | 0.03 | 11 | \$50.00 | Installation of ENERGY STAR clothes washers instead of standard efficiency unit - in homes with electric water heating | 83.4% | 0.0% | 0.48 |
| 4115 | ENERGY STAR Dishwashers (Electric Water Heating) | MF | ALL | NC | 307.0 | 12.1% | 37.0 | 0.158 | 0.03 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with electric water heating | 52.8% | 0.0% | 1.60 |
| 4116 | ENERGY STAR Dishwashers (Gas Water Heating) | MF | ALL | NC | 135.1 | 12.1% | 16.3 | 0.070 | 0.03 | 10 | \$10.00 | Installation of ENERGY STAR dishwasher instead of standard efficiency unit - in homes with gas water heating | 22.8% | 0.0% | 0.70 |
| 4117 | ENERGY STAR Dehumidifiers | MF | ALL | NC | 792.4 | 18.9% | 149.9 | 0.092 | 0.41 | 12 | \$20.21 | Installation of ENERGY STAR dehumidifier instead of standard efficiency unit | 6.9% | 0.0% | 4.30 |
| 4118 | ENERGY STAR Water Coolers | MF | ALL | NC | 799.4 | 60.3% | 481.8 | 0.055 | 1.00 | 10 | \$50.00 | Installation of ENERGY STAR water cooler instead of standard efficiency unit | 1.2% | 0.0% | 4.18 |
| 4119 | ENERGY STAR Air Purifier/Cleaner | MF | ALL | NC | 587.0 | 66.6% | 391.0 | 0.067 | 1.00 | 9 | \$70.00 | Installation of ENERGY STAR air purifier instead of standard efficiency unit | 16.6% | 0.0% | 2.33 |
| 4120 | ENERGY STAR Dryers | MF | ALL | NC | 538.0 | 5.1% | 27.4 | 0.115 | 0.04 | 13 | \$50.00 | Installation of ENERGY STAR dryer instead of standard efficiency unit in homes with electric dryers | 84.4% | 0.0% | 0.32 |
| 5000 | Consumer Electronics | | | | | | | | | | | | | | |
| 5001 | Smart Strip Plug Outlets - Home Office | SFD | NLI | Retrofit | 48.9 | 100.0% | 48.9 | 0.007 | 0.83 | 10 | \$32.97 | Smart strip plug outlet for home office centers | 92.0% | 6.5% | 0.64 |
| 5002 | Smart Strip Plug Outlets - Entertainment Center | SFD | NLI | Retrofit | 62.1 | 100.0% | 62.1 | 0.009 | 0.90 | 10 | \$32.97 | Smart strip plug outlet for home entertainment centers | 204.1% | 2.9% | 0.82 |
| 5003 | ENERGY STAR Televisions > 50" | SFD | ALL | ROB | 197.1 | 49.3% | 97.1 | 0.053 | 0.17 | 6 | \$1.00 | Installation of high efficiency > 50" diameter television instead of a standard efficiency unit | 83.1% | 86.0% | 26.73 |
| 5004 | ENERGY STAR Televisions < 50" | SFD | ALL | ROB | 96.2 | 49.2% | 47.4 | 0.026 | 0.17 | 6 | \$1.00 | Installation of high efficiency < 50" diameter television instead of a standard efficiency unit | 193.9% | 86.0% | 13.05 |
| 5005 | ENERGY STAR Computer - Desktop | SFD | ALL | ROB | 165.6 | 42.7% | 70.7 | 0.022 | 0.76 | 4 | \$8.00 | Installation of high efficiency desktop computer instead of a standard efficiency unit | 76.5% | 27.5% | 1.94 |

Measure Assumptions - PPL

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|---|--------------------------|---------------|-------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|---|-----------------|---------------|-------------------|
| 5006 | ENERGY STAR Computer - Laptop | SFD | ALL | ROB | 52.8 | 40.8% | 21.5 | 0.007 | 0.76 | 4 | \$1.00 | Installation of high efficiency laptop computer instead of a standard efficiency unit | 62.0% | 75.5% | 4.74 |
| 5007 | ENERGY STAR Fax Machine | SFD | ALL | ROB | 52.1 | 30.0% | 15.6 | 0.002 | 1.00 | 4 | \$1.00 | Installation of high efficiency fax machine instead of a standard efficiency unit | 3.0% | 6.5% | 3.11 |
| 5008 | ENERGY STAR Copier | SFD | ALL | ROB | 182.5 | 25.7% | 46.9 | 0.022 | 0.28 | 6 | \$1.00 | Installation of high efficiency copier instead of a standard efficiency unit | 4.2% | 77.8% | 13.51 |
| 5009 | ENERGY STAR Printer | SFD | ALL | ROB | 43.8 | 55.0% | 24.1 | 0.006 | 0.59 | 5 | \$1.00 | Installation of high efficiency printer instead of a standard efficiency unit | 29.4% | 95.0% | 5.89 |
| 5010 | ENERGY STAR Multifunction | SFD | ALL | ROB | 70.1 | 66.3% | 46.4 | 0.011 | 0.59 | 6 | \$1.00 | Installation of high efficiency multifunction device instead of a standard efficiency unit | 53.2% | 95.0% | 13.36 |
| 5011 | ENERGY STAR Monitors | SFD | ALL | ROB | 73.6 | 32.4% | 23.8 | 0.013 | 0.26 | 4 | \$1.80 | Installation of high efficiency monitors instead of a standard efficiency unit | 76.5% | 73.3% | 2.63 |
| 5012 | Smart Strip Plug Outlets - Home Office | SFD | LI | Retrofit | 48.9 | 100.0% | 48.9 | 0.007 | 0.83 | 10 | \$32.97 | Smart strip plug outlet for home office centers | 92.0% | 6.5% | 0.64 |
| 5013 | Smart Strip Plug Outlets - Entertainment Center | SFD | LI | Retrofit | 62.1 | 100.0% | 62.1 | 0.009 | 0.90 | 10 | \$32.97 | Smart strip plug outlet for home entertainment centers | 204.1% | 2.9% | 0.82 |
| 5014 | Smart Strip Plug Outlets - Home Office | SFD | ALL | NC | 48.9 | 100.0% | 48.9 | 0.007 | 0.83 | 10 | \$32.97 | Smart strip plug outlet for home office centers | 92.0% | 0.0% | 0.64 |
| 5015 | Smart Strip Plug Outlets - Entertainment Center | SFD | ALL | NC | 62.1 | 100.0% | 62.1 | 0.009 | 0.90 | 10 | \$32.97 | Smart strip plug outlet for home entertainment centers | 204.1% | 0.0% | 0.82 |
| 5016 | ENERGY STAR Televisions > 50" | SFD | ALL | NC | 197.1 | 49.3% | 97.1 | 0.053 | 0.17 | 6 | \$1.00 | Installation of high efficiency > 50" diameter television instead of a standard efficiency unit | 83.1% | 0.0% | 26.73 |
| 5017 | ENERGY STAR Televisions < 50" | SFD | ALL | NC | 96.2 | 49.2% | 47.4 | 0.026 | 0.17 | 6 | \$1.00 | Installation of high efficiency < 50" diameter television instead of a standard efficiency unit | 193.9% | 0.0% | 13.05 |
| 5018 | ENERGY STAR Computer - Desktop | SFD | ALL | NC | 165.6 | 42.7% | 70.7 | 0.022 | 0.76 | 4 | \$8.00 | Installation of high efficiency desktop computer instead of a standard efficiency unit | 76.5% | 0.0% | 1.94 |
| 5019 | ENERGY STAR Computer - Laptop | SFD | ALL | NC | 52.8 | 40.8% | 21.5 | 0.007 | 0.76 | 4 | \$1.00 | Installation of high efficiency laptop computer instead of a standard efficiency unit | 62.0% | 0.0% | 4.74 |
| 5020 | ENERGY STAR Fax Machine | SFD | ALL | NC | 52.1 | 30.0% | 15.6 | 0.002 | 1.00 | 4 | \$1.00 | Installation of high efficiency fax machine instead of a standard efficiency unit | 3.0% | 0.0% | 3.11 |
| 5021 | ENERGY STAR Copier | SFD | ALL | NC | 182.5 | 25.7% | 46.9 | 0.022 | 0.28 | 6 | \$1.00 | Installation of high efficiency copier instead of a standard efficiency unit | 4.2% | 0.0% | 13.51 |
| 5022 | ENERGY STAR Printer | SFD | ALL | NC | 43.8 | 55.0% | 24.1 | 0.006 | 0.59 | 5 | \$1.00 | Installation of high efficiency printer instead of a standard efficiency unit | 29.4% | 0.0% | 5.89 |
| 5023 | ENERGY STAR Multifunction | SFD | ALL | NC | 70.1 | 66.3% | 46.4 | 0.011 | 0.59 | 6 | \$1.00 | Installation of high efficiency multifunction device instead of a standard efficiency unit | 53.2% | 0.0% | 13.36 |
| 5024 | ENERGY STAR Monitors | SFD | ALL | NC | 73.6 | 32.4% | 23.8 | 0.013 | 0.26 | 4 | \$1.80 | Installation of high efficiency monitors instead of a standard efficiency unit | 76.5% | 0.0% | 2.63 |
| 5025 | Smart Strip Plug Outlets - Home Office | SFA | NLI | Retrofit | 48.9 | 100.0% | 48.9 | 0.007 | 0.83 | 10 | \$32.97 | Smart strip plug outlet for home office centers | 92.0% | 6.5% | 0.64 |
| 5026 | Smart Strip Plug Outlets - Entertainment Center | SFA | NLI | Retrofit | 62.1 | 100.0% | 62.1 | 0.009 | 0.90 | 10 | \$32.97 | Smart strip plug outlet for home entertainment centers | 180.0% | 2.9% | 0.82 |
| 5027 | ENERGY STAR Televisions > 50" | SFA | ALL | ROB | 197.1 | 49.1% | 96.9 | 0.053 | 0.17 | 6 | \$1.00 | Installation of high efficiency > 50" diameter television instead of a standard efficiency unit | 73.3% | 86.0% | 26.67 |
| 5028 | ENERGY STAR Televisions < 50" | SFA | ALL | ROB | 98.1 | 49.3% | 48.4 | 0.027 | 0.17 | 6 | \$1.00 | Installation of high efficiency < 50" diameter television instead of a standard efficiency unit | 150.5% | 86.0% | 13.32 |
| 5029 | ENERGY STAR Computer - Desktop | SFA | ALL | ROB | 165.6 | 42.7% | 70.7 | 0.022 | 0.76 | 4 | \$8.00 | Installation of high efficiency desktop computer instead of a standard efficiency unit | 56.7% | 27.5% | 1.94 |
| 5030 | ENERGY STAR Computer - Laptop | SFA | ALL | ROB | 52.8 | 40.8% | 21.5 | 0.007 | 0.76 | 4 | \$1.00 | Installation of high efficiency laptop computer instead of a standard efficiency unit | 63.9% | 75.5% | 4.74 |
| 5031 | ENERGY STAR Fax Machine | SFA | ALL | ROB | 52.1 | 30.0% | 15.6 | 0.002 | 1.00 | 4 | \$1.00 | Installation of high efficiency fax machine instead of a standard efficiency unit | 3.0% | 6.5% | 3.11 |
| 5032 | ENERGY STAR Copier | SFA | ALL | ROB | 182.5 | 25.7% | 46.9 | 0.022 | 0.28 | 6 | \$1.00 | Installation of high efficiency copier instead of a standard efficiency unit | 1.7% | 77.8% | 13.51 |
| 5033 | ENERGY STAR Printer | SFA | ALL | ROB | 43.8 | 55.0% | 24.1 | 0.006 | 0.59 | 5 | \$1.00 | Installation of high efficiency printer instead of a standard efficiency unit | 29.0% | 95.0% | 5.89 |
| 5034 | ENERGY STAR Multifunction | SFA | ALL | ROB | 70.1 | 66.3% | 46.4 | 0.011 | 0.59 | 6 | \$1.00 | Installation of high efficiency multifunction device instead of a standard efficiency unit | 45.0% | 95.0% | 13.36 |
| 5035 | ENERGY STAR Monitors | SFA | ALL | ROB | 73.6 | 32.4% | 23.8 | 0.013 | 0.26 | 4 | \$1.80 | Installation of high efficiency monitors instead of a standard efficiency unit | 56.7% | 73.3% | 2.63 |
| 5036 | Smart Strip Plug Outlets - Home Office | SFA | LI | Retrofit | 48.9 | 100.0% | 48.9 | 0.007 | 0.83 | 10 | \$32.97 | Smart strip plug outlet for home office centers | 92.0% | 6.5% | 0.64 |
| 5037 | Smart Strip Plug Outlets - Entertainment Center | SFA | LI | Retrofit | 62.1 | 100.0% | 62.1 | 0.009 | 0.90 | 10 | \$32.97 | Smart strip plug outlet for home entertainment centers | 180.0% | 2.9% | 0.82 |
| 5038 | Smart Strip Plug Outlets - Home Office | SFA | ALL | NC | 48.9 | 100.0% | 48.9 | 0.007 | 0.83 | 10 | \$32.97 | Smart strip plug outlet for home office centers | 92.0% | 0.0% | 0.64 |
| 5039 | Smart Strip Plug Outlets - Entertainment Center | SFA | ALL | NC | 62.1 | 100.0% | 62.1 | 0.009 | 0.90 | 10 | \$32.97 | Smart strip plug outlet for home entertainment centers | 180.0% | 0.0% | 0.82 |
| 5040 | ENERGY STAR Televisions > 50" | SFA | ALL | NC | 197.1 | 49.1% | 96.9 | 0.053 | 0.17 | 6 | \$1.00 | Installation of high efficiency > 50" diameter television instead of a standard efficiency unit | 73.3% | 0.0% | 26.67 |
| 5041 | ENERGY STAR Televisions < 50" | SFA | ALL | NC | 98.1 | 49.3% | 48.4 | 0.027 | 0.17 | 6 | \$1.00 | Installation of high efficiency < 50" diameter television instead of a standard efficiency unit | 150.5% | 0.0% | 13.32 |
| 5042 | ENERGY STAR Computer - Desktop | SFA | ALL | NC | 165.6 | 42.7% | 70.7 | 0.022 | 0.76 | 4 | \$8.00 | Installation of high efficiency desktop computer instead of a standard efficiency unit | 56.7% | 0.0% | 1.94 |
| 5043 | ENERGY STAR Computer - Laptop | SFA | ALL | NC | 52.8 | 40.8% | 21.5 | 0.007 | 0.76 | 4 | \$1.00 | Installation of high efficiency laptop computer instead of a standard efficiency unit | 63.9% | 0.0% | 4.74 |
| 5044 | ENERGY STAR Fax Machine | SFA | ALL | NC | 52.1 | 30.0% | 15.6 | 0.002 | 1.00 | 4 | \$1.00 | Installation of high efficiency fax machine instead of a standard efficiency unit | 3.0% | 0.0% | 3.11 |
| 5045 | ENERGY STAR Copier | SFA | ALL | NC | 182.5 | 25.7% | 46.9 | 0.022 | 0.28 | 6 | \$1.00 | Installation of high efficiency copier instead of a standard efficiency unit | 1.7% | 0.0% | 13.51 |

Measure Assumptions - PPL

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|---|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|--|-----------------|---------------|-------------------|
| 5046 | ENERGY STAR Printer | SFA | ALL | NC | 43.8 | 55.0% | 24.1 | 0.006 | 0.59 | 5 | \$1.00 | Installation of high efficiency printer instead of a standard efficiency unit | 29.0% | 0.0% | 5.89 |
| 5047 | ENERGY STAR Multifunction | SFA | ALL | NC | 70.1 | 66.3% | 46.4 | 0.011 | 0.59 | 6 | \$1.00 | Installation of high efficiency multifunction device instead of a standard efficiency unit | 45.0% | 0.0% | 13.36 |
| 5048 | ENERGY STAR Monitors | SFA | ALL | NC | 73.6 | 32.4% | 23.8 | 0.013 | 0.26 | 4 | \$1.80 | Installation of high efficiency monitors instead of a standard efficiency unit | 56.7% | 0.0% | 2.63 |
| 5049 | Smart Strip Plug Outlets - Home Office | MF | NLI | Retrofit | 48.9 | 100.0% | 48.9 | 0.007 | 0.83 | 10 | \$32.97 | Smart strip plug outlet for home office centers | 92.0% | 6.5% | 0.64 |
| 5050 | Smart Strip Plug Outlets - Entertainment Center | MF | NLI | Retrofit | 62.1 | 100.0% | 62.1 | 0.009 | 0.90 | 10 | \$32.97 | Smart strip plug outlet for home entertainment centers | 134.7% | 2.9% | 0.82 |
| 5051 | ENERGY STAR Televisions > 50" | MF | ALL | ROB | 197.1 | 50.0% | 98.6 | 0.054 | 0.17 | 6 | \$1.00 | Installation of high efficiency > 50" diameter television instead of a standard efficiency unit | 39.0% | 86.0% | 27.14 |
| 5052 | ENERGY STAR Televisions < 50" | MF | ALL | ROB | 89.1 | 48.7% | 43.4 | 0.024 | 0.17 | 6 | \$1.00 | Installation of high efficiency < 50" diameter television instead of a standard efficiency unit | 91.0% | 86.0% | 11.94 |
| 5053 | ENERGY STAR Computer - Desktop | MF | ALL | ROB | 165.6 | 42.7% | 70.7 | 0.022 | 0.76 | 4 | \$8.00 | Installation of high efficiency desktop computer instead of a standard efficiency unit | 46.3% | 27.5% | 1.94 |
| 5054 | ENERGY STAR Computer - Laptop | MF | ALL | ROB | 52.8 | 40.8% | 21.5 | 0.007 | 0.76 | 4 | \$1.00 | Installation of high efficiency laptop computer instead of a standard efficiency unit | 35.4% | 75.5% | 4.74 |
| 5055 | ENERGY STAR Fax Machine | MF | ALL | ROB | 52.1 | 30.0% | 15.6 | 0.002 | 1.00 | 4 | \$1.00 | Installation of high efficiency fax machine instead of a standard efficiency unit | 3.0% | 6.5% | 3.11 |
| 5056 | ENERGY STAR Copier | MF | ALL | ROB | 182.5 | 25.7% | 46.9 | 0.022 | 0.28 | 6 | \$1.00 | Installation of high efficiency copier instead of a standard efficiency unit | 1.1% | 77.8% | 13.51 |
| 5057 | ENERGY STAR Printer | MF | ALL | ROB | 43.8 | 55.0% | 24.1 | 0.006 | 0.59 | 5 | \$1.00 | Installation of high efficiency printer instead of a standard efficiency unit | 12.6% | 95.0% | 5.89 |
| 5058 | ENERGY STAR Multifunction | MF | ALL | ROB | 70.1 | 66.3% | 46.4 | 0.011 | 0.59 | 6 | \$1.00 | Installation of high efficiency multifunction device instead of a standard efficiency unit | 30.3% | 95.0% | 13.36 |
| 5059 | ENERGY STAR Monitors | MF | ALL | ROB | 73.6 | 32.4% | 23.8 | 0.013 | 0.26 | 4 | \$1.80 | Installation of high efficiency monitors instead of a standard efficiency unit | 46.3% | 73.3% | 2.63 |
| 5060 | Smart Strip Plug Outlets - Home Office | MF | LI | Retrofit | 48.9 | 100.0% | 48.9 | 0.007 | 0.83 | 10 | \$32.97 | Smart strip plug outlet for home office centers | 92.0% | 6.5% | 0.64 |
| 5061 | Smart Strip Plug Outlets - Entertainment Center | MF | LI | Retrofit | 62.1 | 100.0% | 62.1 | 0.009 | 0.90 | 10 | \$32.97 | Smart strip plug outlet for home entertainment centers | 134.7% | 2.9% | 0.82 |
| 5062 | Smart Strip Plug Outlets - Home Office | MF | ALL | NC | 48.9 | 100.0% | 48.9 | 0.007 | 0.83 | 10 | \$32.97 | Smart strip plug outlet for home office centers | 92.0% | 0.0% | 0.64 |
| 5063 | Smart Strip Plug Outlets - Entertainment Center | MF | ALL | NC | 62.1 | 100.0% | 62.1 | 0.009 | 0.90 | 10 | \$32.97 | Smart strip plug outlet for home entertainment centers | 134.7% | 0.0% | 0.82 |
| 5064 | ENERGY STAR Televisions > 50" | MF | ALL | NC | 197.1 | 50.0% | 98.6 | 0.054 | 0.17 | 6 | \$1.00 | Installation of high efficiency > 50" diameter television instead of a standard efficiency unit | 39.0% | 0.0% | 27.14 |
| 5065 | ENERGY STAR Televisions < 50" | MF | ALL | NC | 89.1 | 48.7% | 43.4 | 0.024 | 0.17 | 6 | \$1.00 | Installation of high efficiency < 50" diameter television instead of a standard efficiency unit | 91.0% | 0.0% | 11.94 |
| 5066 | ENERGY STAR Computer - Desktop | MF | ALL | NC | 165.6 | 42.7% | 70.7 | 0.022 | 0.76 | 4 | \$8.00 | Installation of high efficiency desktop computer instead of a standard efficiency unit | 46.3% | 0.0% | 1.94 |
| 5067 | ENERGY STAR Computer - Laptop | MF | ALL | NC | 52.8 | 40.8% | 21.5 | 0.007 | 0.76 | 4 | \$1.00 | Installation of high efficiency laptop computer instead of a standard efficiency unit | 35.4% | 0.0% | 4.74 |
| 5068 | ENERGY STAR Fax Machine | MF | ALL | NC | 52.1 | 30.0% | 15.6 | 0.002 | 1.00 | 4 | \$1.00 | Installation of high efficiency fax machine instead of a standard efficiency unit | 3.0% | 0.0% | 3.11 |
| 5069 | ENERGY STAR Copier | MF | ALL | NC | 182.5 | 25.7% | 46.9 | 0.022 | 0.28 | 6 | \$1.00 | Installation of high efficiency copier instead of a standard efficiency unit | 1.1% | 0.0% | 13.51 |
| 5070 | ENERGY STAR Printer | MF | ALL | NC | 43.8 | 55.0% | 24.1 | 0.006 | 0.59 | 5 | \$1.00 | Installation of high efficiency printer instead of a standard efficiency unit | 12.6% | 0.0% | 5.89 |
| 5071 | ENERGY STAR Multifunction | MF | ALL | NC | 70.1 | 66.3% | 46.4 | 0.011 | 0.59 | 6 | \$1.00 | Installation of high efficiency multifunction device instead of a standard efficiency unit | 30.3% | 0.0% | 13.36 |
| 5072 | ENERGY STAR Monitors | MF | ALL | NC | 73.6 | 32.4% | 23.8 | 0.013 | 0.26 | 4 | \$1.80 | Installation of high efficiency monitors instead of a standard efficiency unit | 46.3% | 0.0% | 2.63 |
| 6000 | Building Shell | | | | | | | | | | | | | | |
| 6001 | Ceiling Insulation: R-20 to R-60 | SFD | NLI | Retrofit | 5,818.0 | 5.4% | 317.0 | 0.091 | 0.65 | 25 | \$2,382.78 | Addition of R-20 ceiling insulation in adequately insulated homes with heat pumps | 18.6% | 58.4% | 0.09 |
| 6002 | Ceiling Insulation: R-8 to R-38 | SFD | NLI | Retrofit | 6,434.0 | 13.1% | 841.0 | 0.227 | 0.65 | 25 | \$1,644.44 | Addition of R-8 ceiling insulation in poorly insulated homes with heat pumps | 18.6% | 99.0% | 0.34 |
| 6003 | Exterior Wall Insulation: R-0 to R-13 | SFD | NLI | Retrofit | 10,466.0 | 45.1% | 4,725.0 | 0.793 | 0.65 | 25 | \$2,868.24 | Addition of exterior wall insulation in poorly homes with heat pumps | 18.6% | 90.0% | 1.02 |
| 6004 | Exterior Wall Insulation: R-0 to R-19 | SFD | NLI | Retrofit | 10,466.0 | 50.6% | 5,291.0 | 0.964 | 0.65 | 25 | \$3,643.44 | Addition of exterior wall insulation in poorly homes with heat pumps | 18.6% | 90.0% | 0.91 |
| 6005 | Floor Insulation: R-0 to R-19 | SFD | NLI | Retrofit | 6,691.0 | 2.3% | 155.0 | -0.167 | 0.65 | 25 | \$1,779.70 | Addition of floor insulation in homes with unconditioned basements or crawl spaces and heat pumps | 8.3% | 62.0% | 0.01 |
| 6006 | Basement Wall Insulation: R-0 to R-13 | SFD | NLI | Retrofit | 5,607.0 | 7.1% | 399.0 | 0.003 | 0.65 | 25 | \$2,611.20 | Addition of basement wall insulation in homes with poorly insulated conditioned basements and heat pumps | 2.0% | 62.0% | 0.09 |
| 6007 | Air Sealing: 13 ACH50 to 9 ACH50 | SFD | NLI | Retrofit | 6,756.0 | 13.9% | 938.0 | 0.049 | 0.65 | 15 | \$847.00 | Air sealing in poorly sealed homes with heat pumps | 18.6% | 88.0% | 0.64 |
| 6008 | Air Sealing: 9 ACH50 to 7 ACH50 | SFD | NLI | Retrofit | 5,818.0 | 7.4% | 431.0 | 0.027 | 0.65 | 15 | \$847.00 | Air sealing in adequately sealed homes with heat pumps | 18.6% | 54.0% | 0.30 |
| 6009 | Duct Sealing: 38.5% to 25% (CFM @25Pa) | SFD | NLI | Retrofit | 5,994.0 | 2.9% | 176.0 | 0.034 | 0.65 | 20 | \$744.00 | Duct sealing in homes with poorly sealed ducts and heat pumps | 18.6% | 65.0% | 0.15 |
| 6010 | Duct Sealing: 25% to 16.25% (CFM @25Pa) | SFD | NLI | Retrofit | 5,818.0 | 2.0% | 115.0 | 0.028 | 0.65 | 20 | \$744.00 | Duct sealing in homes with adequately sealed ducts and heat pumps | 18.6% | 65.0% | 0.10 |
| 6011 | Duct Insulation (R-0 to R-8) | SFD | NLI | Retrofit | 5,955.0 | 2.8% | 164.0 | 0.009 | 0.65 | 20 | \$754.60 | Installation of duct insulation in homes with poorly insulated ducts and heat pumps | 18.6% | 58.0% | 0.13 |

Measure Assumptions - PPL

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|--|-----------------|---------------|-------------------|
| 6012 | Window Film (U=0.51, SHGC=0.24) | SFD | NLI | Retrofit | 6,826.0 | 10.9% | 744.0 | 0.675 | 0.65 | 10 | \$2,424.00 | Installation of window film on single-pane windows in homes with heat pumps | 18.6% | 97.0% | 0.20 |
| 6013 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFD | NLI | Retrofit | 5,818.0 | 4.7% | 273.0 | 0.253 | 0.65 | 20 | \$4,598.67 | Installation of ENERGY STAR windows to replace single-pane windows in homes with heat pumps | 18.6% | 97.0% | 0.05 |
| 6014 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFD | ALL | ROB | 5,818.0 | 4.7% | 273.0 | 0.253 | 0.65 | 20 | \$186.08 | Installation of ENERGY STAR windows instead of double-pane windows in homes with heat pumps | 18.6% | 23.0% | 1.34 |
| 6015 | Radiant Barrier | SFD | ALL | Retrofit | 5,818.0 | 1.0% | 59.0 | 0.054 | 0.65 | 25 | \$951.56 | Installation of radiant barriers in homes with heat pumps | 18.6% | 10.0% | 0.06 |
| 6016 | Low Income Weatherization Package | SFD | LI | Retrofit | 7,210.0 | 25.2% | 1,819.0 | 0.208 | 0.65 | 20 | \$6,365.64 | Installation of package of weatherization measures in homes with heat pumps | 18.6% | 58.4% | 0.17 |
| 6017 | Window Film (U=0.51, SHGC=0.24) | SFD | LI | Retrofit | 6,826.0 | 10.9% | 744.0 | 0.675 | 0.65 | 10 | \$2,424.00 | Installation of ENERGY STAR windows to replace single-pane windows in homes with heat pumps | 18.6% | 97.0% | 0.20 |
| 6018 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFD | LI | Retrofit | 5,818.0 | 4.7% | 273.0 | 0.253 | 0.65 | 20 | \$4,598.67 | Installation of ENERGY STAR windows instead of double-pane windows in homes with heat pumps | 18.6% | 97.0% | 0.05 |
| 6019 | Residential New Construction Tier 1 (15% more efficient) | SFD | ALL | NC | 5,659.0 | 26.0% | 1,474.0 | 0.095 | 0.65 | 20 | \$2,561.00 | New home built 15% more efficient than code - in homes with heat pumps | 50.0% | 0.0% | 0.33 |
| 6020 | Residential New Construction Tier 2 (30% more efficient) | SFD | ALL | NC | 5,659.0 | 31.6% | 1,790.0 | 0.184 | 0.65 | 20 | \$3,742.54 | New home built 30% more efficient than code - in homes with heat pumps | 50.0% | 0.0% | 0.29 |
| 6021 | Ceiling Insulation: R-20 to R-60 | SFD | NLI | Retrofit | 12,444.0 | 5.6% | 701.0 | 0.109 | 0.65 | 25 | \$2,382.78 | Addition of R-20 ceiling insulation in adequately insulated homes with non-heat pump electric heating | 16.5% | 58.4% | 0.18 |
| 6022 | Ceiling Insulation: R-8 to R-38 | SFD | NLI | Retrofit | 13,794.0 | 13.4% | 1,852.0 | 0.278 | 0.65 | 25 | \$1,644.44 | Addition of R-8 ceiling insulation in poorly insulated homes with non-heat pump electric heating | 16.5% | 99.0% | 0.69 |
| 6023 | Exterior Wall Insulation: R-0 to R-13 | SFD | NLI | Retrofit | 21,818.0 | 43.8% | 9,556.0 | 0.926 | 0.65 | 25 | \$2,868.24 | Addition of exterior wall insulation in poorly homes with non-heat pump electric heating | 16.5% | 90.0% | 1.98 |
| 6024 | Exterior Wall Insulation: R-0 to R-19 | SFD | NLI | Retrofit | 21,818.0 | 49.7% | 10,834.0 | 1.138 | 0.65 | 25 | \$3,643.44 | Addition of exterior wall insulation in poorly homes with non-heat pump electric heating | 16.5% | 90.0% | 1.78 |
| 6025 | Floor Insulation: R-0 to R-19 | SFD | NLI | Retrofit | 14,446.0 | 7.6% | 1,095.0 | -0.202 | 0.65 | 25 | \$1,779.70 | Addition of floor insulation in homes with unconditioned basements or crawl spaces and non-heat pump electric heating | 7.4% | 62.0% | 0.30 |
| 6026 | Basement Wall Insulation: R-0 to R-13 | SFD | NLI | Retrofit | 12,931.0 | 14.3% | 1,854.0 | 0.097 | 0.65 | 25 | \$2,611.20 | Addition of basement wall insulation in homes with poorly insulated conditioned basements and non-heat pump electric heating | 1.8% | 62.0% | 0.41 |
| 6027 | Air Sealing: 13 ACH50 to 9 ACH50 | SFD | NLI | Retrofit | 14,532.0 | 14.4% | 2,088.0 | 0.066 | 0.65 | 15 | \$847.00 | Air sealing in poorly sealed homes with non-heat pump electric heating | 16.5% | 88.0% | 1.40 |
| 6028 | Air Sealing: 9 ACH50 to 7 ACH50 | SFD | NLI | Retrofit | 12,444.0 | 8.2% | 1,023.0 | 0.027 | 0.65 | 15 | \$847.00 | Air sealing in adequately sealed homes with non-heat pump electric heating | 16.5% | 54.0% | 0.69 |
| 6029 | Duct Sealing: 38.5% to 25% (CFM @25Pa) | SFD | NLI | Retrofit | 12,482.0 | 0.3% | 38.0 | 0.048 | 0.65 | 20 | \$744.00 | Duct sealing in homes with poorly sealed ducts and electric furnaces | 2.8% | 65.0% | 0.05 |
| 6030 | Duct Sealing: 25% to 16.25% (CFM @25Pa) | SFD | NLI | Retrofit | 12,444.0 | 0.2% | 25.0 | 0.030 | 0.65 | 20 | \$744.00 | Duct sealing in homes with adequately sealed ducts and electric furnaces | 2.8% | 65.0% | 0.03 |
| 6031 | Duct Insulation (R-0 to R-8) | SFD | NLI | Retrofit | 12,455.0 | 0.1% | 15.0 | 0.009 | 0.65 | 20 | \$754.60 | Installation of duct insulation in homes with poorly insulated ducts and electric furnaces | 2.8% | 58.0% | 0.02 |
| 6032 | Window Film (U=0.51, SHGC=0.24) | SFD | NLI | Retrofit | 14,576.0 | 7.8% | 1,140.0 | 0.820 | 0.65 | 10 | \$2,424.00 | Installation of window film on single-pane windows in homes with non-heat pump electric heating | 16.5% | 97.0% | 0.28 |
| 6033 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFD | NLI | Retrofit | 12,444.0 | 3.7% | 457.0 | 0.299 | 0.65 | 20 | \$4,598.67 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-heat pump electric heating | 16.5% | 97.0% | 0.08 |
| 6034 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFD | ALL | ROB | 12,444.0 | 3.7% | 457.0 | 0.299 | 0.65 | 20 | \$186.08 | Installation of ENERGY STAR windows instead of double-pane windows in homes with non-heat pump electric heating | 16.5% | 23.0% | 1.98 |
| 6035 | Radiant Barrier | SFD | ALL | Retrofit | 12,444.0 | 0.9% | 110.0 | 0.061 | 0.65 | 25 | \$951.56 | Installation of radiant barriers in homes with non-heat pump electric heating | 16.5% | 10.0% | 0.09 |
| 6036 | Low Income Weatherization Package | SFD | LI | Retrofit | 15,607.0 | 25.3% | 3,950.0 | 0.268 | 0.65 | 20 | \$6,365.64 | Installation of package of weatherization measures in homes with non-heat pump electric heating | 16.5% | 58.4% | 0.36 |
| 6037 | Window Film (U=0.51, SHGC=0.24) | SFD | LI | Retrofit | 14,576.0 | 7.8% | 1,140.0 | 0.820 | 0.65 | 10 | \$2,424.00 | Installation of window film on single-pane windows in homes with non-heat pump electric heating | 16.5% | 97.0% | 0.28 |
| 6038 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFD | LI | Retrofit | 12,444.0 | 3.7% | 457.0 | 0.299 | 0.65 | 20 | \$4,598.67 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-heat pump electric heating | 16.5% | 97.0% | 0.08 |
| 6039 | Ceiling Insulation: R-20 to R-60 | SFD | NLI | Retrofit | 1,893.0 | 3.7% | 70.0 | 0.101 | 0.65 | 25 | \$2,382.78 | Addition of R-20 ceiling insulation in adequately insulated homes with non-electric heating | 65.0% | 58.4% | 0.03 |
| 6040 | Ceiling Insulation: R-8 to R-38 | SFD | NLI | Retrofit | 2,025.0 | 8.9% | 181.0 | 0.272 | 0.65 | 25 | \$1,644.44 | Addition of R-8 ceiling insulation in poorly insulated homes with non-electric heating | 65.0% | 99.0% | 0.12 |
| 6041 | Exterior Wall Insulation: R-0 to R-13 | SFD | NLI | Retrofit | 2,652.0 | 29.1% | 773.0 | 0.915 | 0.65 | 25 | \$2,868.24 | Addition of exterior wall insulation in poorly homes with non-electric heating | 65.0% | 90.0% | 0.27 |
| 6042 | Exterior Wall Insulation: R-0 to R-19 | SFD | NLI | Retrofit | 2,652.0 | 32.9% | 873.0 | 1.118 | 0.65 | 25 | \$3,643.44 | Addition of exterior wall insulation in poorly homes with non-electric heating | 65.0% | 90.0% | 0.25 |
| 6043 | Floor Insulation: R-0 to R-19 | SFD | NLI | Retrofit | 1,834.0 | -10.7% | -197.0 | -0.187 | 0.65 | 25 | \$1,779.70 | Addition of floor insulation in homes with unconditioned basements or crawl spaces and non-electric heating | 29.1% | 62.0% | -0.10 |
| 6044 | Basement Wall Insulation: R-0 to R-13 | SFD | NLI | Retrofit | 1,850.0 | -0.1% | -2.0 | -0.004 | 0.65 | 25 | \$2,611.20 | Addition of basement wall insulation in homes with poorly insulated conditioned basements and non-electric heating | 7.1% | 62.0% | 0.00 |
| 6045 | Air Sealing: 13 ACH50 to 9 ACH50 | SFD | NLI | Retrofit | 1,976.0 | 4.2% | 83.0 | 0.071 | 0.65 | 15 | \$847.00 | Air sealing in poorly sealed homes with non-electric heating | 65.0% | 88.0% | 0.09 |
| 6046 | Air Sealing: 9 ACH50 to 7 ACH50 | SFD | NLI | Retrofit | 1,893.0 | 2.0% | 38.0 | 0.029 | 0.65 | 15 | \$847.00 | Air sealing in adequately sealed homes with non-electric heating | 65.0% | 54.0% | 0.04 |

Measure Assumptions - PPL

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|--|-----------------|---------------|-------------------|
| 6047 | Duct Sealing: 38.5% to 25% (CFM @25Pa) | SFD | NLI | Retrofit | 1,949.0 | 2.9% | 56.0 | 0.052 | 0.65 | 20 | \$744.00 | Duct sealing in homes with poorly sealed ducts and non-electric furnaces | 33.2% | 65.0% | 0.07 |
| 6048 | Duct Sealing: 25% to 16.25% (CFM @25Pa) | SFD | NLI | Retrofit | 1,893.0 | 1.8% | 34.0 | 0.029 | 0.65 | 20 | \$744.00 | Duct sealing in homes with adequately sealed ducts and non-electric furnaces | 33.2% | 65.0% | 0.04 |
| 6049 | Duct Insulation (R-0 to R-8) | SFD | NLI | Retrofit | 1,923.0 | 1.9% | 36.0 | 0.018 | 0.65 | 20 | \$754.60 | Installation of duct insulation in homes with poorly insulated ducts and non-electric furnaces | 33.2% | 58.0% | 0.03 |
| 6050 | Window Film (U=0.51, SHGC=0.24) | SFD | NLI | Retrofit | 2,145.0 | 25.9% | 556.0 | 0.819 | 0.65 | 10 | \$2,424.00 | Installation of window film on single-pane windows in homes with non-electric heating | 65.0% | 97.0% | 0.18 |
| 6051 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFD | NLI | Retrofit | 1,893.0 | 10.5% | 199.0 | 0.298 | 0.65 | 20 | \$4,598.67 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-electric heating | 65.0% | 97.0% | 0.05 |
| 6052 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFD | ALL | ROB | 1,893.0 | 10.5% | 199.0 | 0.298 | 0.65 | 20 | \$186.08 | Installation of ENERGY STAR windows instead of double-pane windows in homes with non-electric heating | 65.0% | 23.0% | 1.19 |
| 6053 | Radiant Barrier | SFD | ALL | Retrofit | 1,893.0 | 2.0% | 37.0 | 0.051 | 0.65 | 25 | \$951.56 | Installation of radiant barriers in homes with non-electric heating | 65.0% | 10.0% | 0.04 |
| 6054 | Low Income Weatherization Package | SFD | LI | Retrofit | 2,043.0 | 5.8% | 119.0 | 0.096 | 0.65 | 20 | \$2,070.71 | Installation of package of weatherization measures in homes with non-electric heating | 65.0% | 58.4% | 0.05 |
| 6055 | Window Film (U=0.51, SHGC=0.24) | SFD | LI | Retrofit | 2,145.0 | 25.9% | 556.0 | 0.819 | 0.65 | 10 | \$2,424.00 | Installation of window film on single-pane windows in homes with non-electric heating | 65.0% | 97.0% | 0.18 |
| 6056 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFD | LI | Retrofit | 1,893.0 | 10.5% | 199.0 | 0.298 | 0.65 | 20 | \$4,598.67 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-electric heating | 65.0% | 97.0% | 0.05 |
| 6057 | Residential New Construction Tier 1 (15% more efficient) | SFD | ALL | NC | 1,545.0 | 8.8% | 136.0 | 0.115 | 0.65 | 20 | \$2,561.00 | New home built 15% more efficient than code - in homes with non-electric heating | 50.0% | 0.0% | 0.05 |
| 6058 | Residential New Construction Tier 2 (30% more efficient) | SFD | ALL | NC | 1,545.0 | 29.1% | 449.0 | 0.424 | 0.65 | 20 | \$4,971.41 | New home built 30% more efficient than code - in homes with non-electric heating | 50.0% | 0.0% | 0.08 |
| 6059 | Ceiling Insulation: R-20 to R-60 | SFA | NLI | Retrofit | 5,123.0 | 7.0% | 358.0 | 0.111 | 0.65 | 25 | \$2,567.00 | Addition of R-20 ceiling insulation in adequately insulated homes with heat pumps | 18.6% | 58.4% | 0.09 |
| 6060 | Ceiling Insulation: R-8 to R-38 | SFA | NLI | Retrofit | 5,800.0 | 16.1% | 931.0 | 0.271 | 0.65 | 25 | \$1,771.58 | Addition of R-8 ceiling insulation in poorly insulated homes with heat pumps | 18.6% | 99.0% | 0.35 |
| 6061 | Exterior Wall Insulation: R-0 to R-13 | SFA | NLI | Retrofit | 7,817.0 | 35.1% | 2,744.0 | 0.501 | 0.65 | 25 | \$2,968.88 | Addition of exterior wall insulation in poorly homes with heat pumps | 18.6% | 90.0% | 0.58 |
| 6062 | Exterior Wall Insulation: R-0 to R-19 | SFA | NLI | Retrofit | 7,817.0 | 39.6% | 3,093.0 | 0.597 | 0.65 | 25 | \$3,771.28 | Addition of exterior wall insulation in poorly homes with heat pumps | 18.6% | 90.0% | 0.52 |
| 6063 | Floor Insulation: R-0 to R-19 | SFA | NLI | Retrofit | 5,304.0 | 4.0% | 213.0 | -0.140 | 0.65 | 25 | \$1,572.50 | Addition of floor insulation in homes with unconditioned basements or crawl spaces and heat pumps | 8.3% | 62.0% | 0.04 |
| 6064 | Basement Wall Insulation: R-0 to R-13 | SFA | NLI | Retrofit | 4,202.0 | 9.4% | 397.0 | 0.011 | 0.65 | 25 | \$2,406.40 | Addition of basement wall insulation in homes with poorly insulated conditioned basements and heat pumps | 2.0% | 62.0% | 0.09 |
| 6065 | Air Sealing: 13 ACH50 to 9 ACH50 | SFA | NLI | Retrofit | 6,134.0 | 16.5% | 1,011.0 | 0.056 | 0.65 | 15 | \$748.00 | Air sealing in poorly sealed homes with heat pumps | 18.6% | 88.0% | 0.78 |
| 6066 | Air Sealing: 9 ACH50 to 7 ACH50 | SFA | NLI | Retrofit | 5,123.0 | 9.6% | 493.0 | 0.034 | 0.65 | 15 | \$748.00 | Air sealing in adequately sealed homes with heat pumps | 18.6% | 54.0% | 0.38 |
| 6067 | Duct Sealing: 38.5% to 25% (CFM @25Pa) | SFA | NLI | Retrofit | 5,276.0 | 2.9% | 153.0 | 0.023 | 0.65 | 20 | \$744.00 | Duct sealing in homes with poorly sealed ducts and heat pumps | 18.6% | 65.0% | 0.13 |
| 6068 | Duct Sealing: 25% to 16.25% (CFM @25Pa) | SFA | NLI | Retrofit | 5,123.0 | 2.0% | 102.0 | 0.018 | 0.65 | 20 | \$744.00 | Duct sealing in homes with adequately sealed ducts and heat pumps | 18.6% | 65.0% | 0.09 |
| 6069 | Duct Insulation (R-0 to R-8) | SFA | NLI | Retrofit | 5,252.0 | 3.0% | 155.0 | 0.006 | 0.65 | 20 | \$666.40 | Installation of duct insulation in homes with poorly insulated ducts and heat pumps | 18.6% | 58.0% | 0.13 |
| 6070 | Window Film (U=0.51, SHGC=0.24) | SFA | NLI | Retrofit | 5,842.0 | 9.4% | 548.0 | 0.486 | 0.65 | 10 | \$1,632.00 | Installation of window film on single-pane windows in homes with heat pumps | 18.6% | 97.0% | 0.22 |
| 6071 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFA | NLI | Retrofit | 5,123.0 | 4.2% | 216.0 | 0.189 | 0.65 | 20 | \$3,096.13 | Installation of ENERGY STAR windows to replace single-pane windows in homes with heat pumps | 18.6% | 97.0% | 0.06 |
| 6072 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFA | ALL | ROB | 5,123.0 | 4.2% | 216.0 | 0.189 | 0.65 | 20 | \$125.28 | Installation of ENERGY STAR windows instead of double-pane windows in homes with heat pumps | 18.6% | 23.0% | 1.53 |
| 6073 | Low Income Weatherization Package | SFA | LI | Retrofit | 6,410.0 | 26.9% | 1,724.0 | 0.175 | 0.65 | 20 | \$4,938.29 | Installation of package of weatherization measures in homes with heat pumps | 18.6% | 58.4% | 0.21 |
| 6074 | Window Film (U=0.51, SHGC=0.24) | SFA | LI | Retrofit | 5,842.0 | 9.4% | 548.0 | 0.486 | 0.65 | 10 | \$1,632.00 | Installation of window film on single-pane windows in homes with heat pumps | 18.6% | 97.0% | 0.22 |
| 6075 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFA | LI | Retrofit | 5,123.0 | 4.2% | 216.0 | 0.189 | 0.65 | 20 | \$3,096.13 | Installation of ENERGY STAR windows to replace single-pane windows in homes with heat pumps | 18.6% | 97.0% | 0.06 |
| 6076 | Residential New Construction Tier 1 (15% more efficient) | SFA | ALL | NC | 4,698.0 | 32.6% | 1,530.0 | 0.120 | 0.65 | 20 | \$2,561.00 | New home built 15% more efficient than code - in homes with heat pumps | 50.0% | 0.0% | 0.35 |
| 6077 | Residential New Construction Tier 2 (30% more efficient) | SFA | ALL | NC | 4,698.0 | 35.0% | 1,644.0 | 0.190 | 0.65 | 20 | \$3,345.67 | New home built 30% more efficient than code - in homes with heat pumps | 50.0% | 0.0% | 0.30 |
| 6078 | Ceiling Insulation: R-20 to R-60 | SFA | NLI | Retrofit | 10,315.0 | 7.8% | 800.0 | 0.124 | 0.65 | 25 | \$2,567.00 | Addition of R-20 ceiling insulation in adequately insulated homes with non-heat pump electric heating | 16.5% | 58.4% | 0.19 |
| 6079 | Ceiling Insulation: R-8 to R-38 | SFA | NLI | Retrofit | 11,826.0 | 17.6% | 2,079.0 | 0.321 | 0.65 | 25 | \$1,771.58 | Addition of R-8 ceiling insulation in poorly insulated homes with non-heat pump electric heating | 16.5% | 99.0% | 0.72 |
| 6080 | Exterior Wall Insulation: R-0 to R-13 | SFA | NLI | Retrofit | 16,241.0 | 37.2% | 6,039.0 | 0.580 | 0.65 | 25 | \$2,968.88 | Addition of exterior wall insulation in poorly homes with non-heat pump electric heating | 16.5% | 90.0% | 1.21 |
| 6081 | Exterior Wall Insulation: R-0 to R-19 | SFA | NLI | Retrofit | 16,241.0 | 42.0% | 6,826.0 | 0.695 | 0.65 | 25 | \$3,771.28 | Addition of exterior wall insulation in poorly homes with non-heat pump electric heating | 16.5% | 90.0% | 1.08 |

Measure Assumptions - PPL

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|--|-----------------|---------------|-------------------|
| 6082 | Floor Insulation: R-0 to R-19 | SFA | NLI | Retrofit | 11,258.0 | 9.8% | 1,108.0 | -0.161 | 0.65 | 25 | \$1,572.50 | Addition of floor insulation in homes with unconditioned basements or crawl spaces and non-heat pump electric heating | 7.4% | 62.0% | 0.35 |
| 6083 | Basement Wall Insulation: R-0 to R-13 | SFA | NLI | Retrofit | 9,882.0 | 20.5% | 2,030.0 | 0.142 | 0.65 | 25 | \$2,406.40 | Addition of basement wall insulation in homes with poorly insulated conditioned basements and non-heat pump electric heating | 1.8% | 62.0% | 0.49 |
| 6084 | Air Sealing: 13 ACH50 to 9 ACH50 | SFA | NLI | Retrofit | 12,682.0 | 18.7% | 2,367.0 | 0.075 | 0.65 | 15 | \$748.00 | Air sealing in poorly sealed homes with non-heat pump electric heating | 16.5% | 88.0% | 1.80 |
| 6085 | Air Sealing: 9 ACH50 to 7 ACH50 | SFA | NLI | Retrofit | 10,315.0 | 11.3% | 1,162.0 | 0.037 | 0.65 | 15 | \$748.00 | Air sealing in adequately sealed homes with non-heat pump electric heating | 16.5% | 54.0% | 0.88 |
| 6086 | Duct Sealing: 38.5% to 25% (CFM @25Pa) | SFA | NLI | Retrofit | 10,342.0 | 0.3% | 27.0 | 0.031 | 0.65 | 20 | \$744.00 | Duct sealing in homes with poorly sealed ducts and electric furnaces | 2.8% | 65.0% | 0.04 |
| 6087 | Duct Sealing: 25% to 16.25% (CFM @25Pa) | SFA | NLI | Retrofit | 10,315.0 | 0.2% | 19.0 | 0.019 | 0.65 | 20 | \$744.00 | Duct sealing in homes with adequately sealed ducts and electric furnaces | 2.8% | 65.0% | 0.02 |
| 6088 | Duct Insulation (R-0 to R-8) | SFA | NLI | Retrofit | 10,323.0 | 0.1% | 8.0 | 0.005 | 0.65 | 20 | \$666.40 | Installation of duct insulation in homes with poorly insulated ducts and electric furnaces | 2.8% | 58.0% | 0.01 |
| 6089 | Window Film (U=0.51, SHGC=0.24) | SFA | NLI | Retrofit | 11,860.0 | 7.0% | 825.0 | 0.584 | 0.65 | 10 | \$1,632.00 | Installation of window film on single-pane windows in homes with non-heat pump electric heating | 16.5% | 97.0% | 0.30 |
| 6090 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFA | NLI | Retrofit | 10,315.0 | 3.3% | 342.0 | 0.220 | 0.65 | 20 | \$3,096.13 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-heat pump electric heating | 16.5% | 97.0% | 0.09 |
| 6091 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFA | ALL | ROB | 10,315.0 | 3.3% | 342.0 | 0.220 | 0.65 | 20 | \$125.28 | Installation of ENERGY STAR windows instead of double-pane windows in homes with non-heat pump electric heating | 16.5% | 23.0% | 2.19 |
| 6092 | Low Income Weatherization Package | SFA | LI | Retrofit | 13,363.0 | 29.3% | 3,910.0 | 0.213 | 0.65 | 20 | \$4,938.29 | Installation of package of weatherization measures in homes with non-heat pump electric heating | 16.5% | 58.4% | 0.46 |
| 6093 | Window Film (U=0.51, SHGC=0.24) | SFA | LI | Retrofit | 11,860.0 | 7.0% | 825.0 | 0.584 | 0.65 | 10 | \$1,632.00 | Installation of window film on single-pane windows in homes with non-heat pump electric heating | 16.5% | 97.0% | 0.30 |
| 6094 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFA | LI | Retrofit | 10,315.0 | 3.3% | 342.0 | 0.220 | 0.65 | 20 | \$3,096.13 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-heat pump electric heating | 16.5% | 97.0% | 0.09 |
| 6095 | Ceiling Insulation: R-20 to R-60 | SFA | NLI | Retrofit | 1,806.0 | 4.4% | 79.0 | 0.131 | 0.65 | 25 | \$2,567.00 | Addition of R-20 ceiling insulation in adequately insulated homes with non-electric heating | 65.0% | 58.4% | 0.04 |
| 6096 | Ceiling Insulation: R-8 to R-38 | SFA | NLI | Retrofit | 1,955.0 | 10.4% | 203.0 | 0.321 | 0.65 | 25 | \$1,771.58 | Addition of R-8 ceiling insulation in poorly insulated homes with non-electric heating | 65.0% | 99.0% | 0.13 |
| 6097 | Exterior Wall Insulation: R-0 to R-13 | SFA | NLI | Retrofit | 2,342.0 | 23.4% | 548.0 | 0.578 | 0.65 | 25 | \$2,968.88 | Addition of exterior wall insulation in poorly homes with non-electric heating | 65.0% | 90.0% | 0.17 |
| 6098 | Exterior Wall Insulation: R-0 to R-19 | SFA | NLI | Retrofit | 2,342.0 | 26.3% | 615.0 | 0.695 | 0.65 | 25 | \$3,771.28 | Addition of exterior wall insulation in poorly homes with non-electric heating | 65.0% | 90.0% | 0.16 |
| 6099 | Floor Insulation: R-0 to R-19 | SFA | NLI | Retrofit | 1,653.0 | -11.0% | -182.0 | -0.150 | 0.65 | 25 | \$1,572.50 | Addition of floor insulation in homes with unconditioned basements or crawl spaces and non-electric heating | 29.1% | 62.0% | -0.10 |
| 6100 | Basement Wall Insulation: R-0 to R-13 | SFA | NLI | Retrofit | 1,633.0 | -0.1% | -2.0 | 0.006 | 0.65 | 25 | \$2,406.40 | Addition of basement wall insulation in homes with poorly insulated conditioned basements and non-electric heating | 7.1% | 62.0% | 0.00 |
| 6101 | Air Sealing: 13 ACH50 to 9 ACH50 | SFA | NLI | Retrofit | 1,899.0 | 4.9% | 93.0 | 0.074 | 0.65 | 15 | \$748.00 | Air sealing in poorly sealed homes with non-electric heating | 65.0% | 88.0% | 0.10 |
| 6102 | Air Sealing: 9 ACH50 to 7 ACH50 | SFA | NLI | Retrofit | 1,806.0 | 2.6% | 47.0 | 0.043 | 0.65 | 15 | \$748.00 | Air sealing in adequately sealed homes with non-electric heating | 65.0% | 54.0% | 0.06 |
| 6103 | Duct Sealing: 38.5% to 25% (CFM @25Pa) | SFA | NLI | Retrofit | 1,846.0 | 2.2% | 40.0 | 0.032 | 0.65 | 20 | \$744.00 | Duct sealing in homes with poorly sealed ducts and non-electric furnaces | 33.2% | 65.0% | 0.05 |
| 6104 | Duct Sealing: 25% to 16.25% (CFM @25Pa) | SFA | NLI | Retrofit | 1,806.0 | 1.3% | 24.0 | 0.019 | 0.65 | 20 | \$744.00 | Duct sealing in homes with adequately sealed ducts and non-electric furnaces | 33.2% | 65.0% | 0.03 |
| 6105 | Duct Insulation (R-0 to R-8) | SFA | NLI | Retrofit | 1,825.0 | 1.4% | 25.0 | 0.007 | 0.65 | 20 | \$666.40 | Installation of duct insulation in homes with poorly insulated ducts and non-electric furnaces | 33.2% | 58.0% | 0.02 |
| 6106 | Window Film (U=0.51, SHGC=0.24) | SFA | NLI | Retrofit | 2,014.0 | 24.7% | 498.0 | 0.588 | 0.65 | 10 | \$1,632.00 | Installation of window film on single-pane windows in homes with non-electric heating | 65.0% | 97.0% | 0.22 |
| 6107 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFA | NLI | Retrofit | 1,806.0 | 10.2% | 185.0 | 0.220 | 0.65 | 20 | \$3,096.13 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-electric heating | 65.0% | 97.0% | 0.06 |
| 6108 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFA | ALL | ROB | 1,806.0 | 10.2% | 185.0 | 0.220 | 0.65 | 20 | \$125.28 | Installation of ENERGY STAR windows instead of double-pane windows in homes with non-electric heating | 65.0% | 23.0% | 1.47 |
| 6109 | Low Income Weatherization Package | SFA | LI | Retrofit | 1,931.0 | 6.4% | 123.0 | 0.095 | 0.65 | 20 | \$1,915.64 | Installation of package of weatherization measures in homes with non-electric heating | 65.0% | 58.4% | 0.05 |
| 6110 | Window Film (U=0.51, SHGC=0.24) | SFA | LI | Retrofit | 2,014.0 | 24.7% | 498.0 | 0.588 | 0.65 | 10 | \$1,632.00 | Installation of window film on single-pane windows in homes with non-electric heating | 65.0% | 97.0% | 0.22 |
| 6111 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | SFA | LI | Retrofit | 1,806.0 | 10.2% | 185.0 | 0.220 | 0.65 | 20 | \$3,096.13 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-electric heating | 65.0% | 97.0% | 0.06 |
| 6112 | Residential New Construction Tier 1 (15% more efficient) | SFA | ALL | NC | 1,404.0 | 10.8% | 152.0 | 0.126 | 0.65 | 20 | \$2,561.00 | New home built 15% more efficient than code - in homes with non-electric heating | 50.0% | 0.0% | 0.05 |
| 6113 | Residential New Construction Tier 2 (30% more efficient) | SFA | ALL | NC | 1,404.0 | 24.2% | 340.0 | 0.345 | 0.65 | 20 | \$4,302.19 | New home built 30% more efficient than code - in homes with non-electric heating | 50.0% | 0.0% | 0.07 |
| 6114 | Exterior Wall Insulation: R-0 to R-13 | MF | NLI | Retrofit | 3,350.0 | 33.9% | 1,137.0 | 0.240 | 0.65 | 25 | \$1,509.60 | Addition of exterior wall insulation in poorly homes with heat pumps | 18.6% | 90.0% | 0.48 |
| 6115 | Exterior Wall Insulation: R-0 to R-19 | MF | NLI | Retrofit | 3,350.0 | 38.3% | 1,284.0 | 0.281 | 0.65 | 25 | \$1,917.60 | Addition of exterior wall insulation in poorly homes with heat pumps | 18.6% | 90.0% | 0.43 |
| 6116 | Air Sealing: 13 ACH50 to 9 ACH50 | MF | NLI | Retrofit | 2,588.0 | 13.7% | 355.0 | 0.039 | 0.65 | 15 | \$385.00 | Air sealing in poorly sealed homes with heat pumps | 18.6% | 88.0% | 0.55 |

Measure Assumptions - PPL

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|---|-----------------|---------------|-------------------|
| 6117 | Air Sealing: 9 ACH50 to 7 ACH50 | MF | NLI | Retrofit | 2,233.0 | 7.6% | 170.0 | 0.017 | 0.65 | 15 | \$385.00 | Air sealing in adequately sealed homes with heat pumps | 18.6% | 54.0% | 0.26 |
| 6118 | Duct Sealing: 38.5% to 25% (CFM @25Pa) | MF | NLI | Retrofit | 2,442.0 | 8.6% | 209.0 | 0.104 | 0.65 | 20 | \$744.00 | Duct sealing in homes with poorly sealed ducts and heat pumps | 18.6% | 65.0% | 0.21 |
| 6119 | Duct Sealing: 25% to 16.25% (CFM @25Pa) | MF | NLI | Retrofit | 2,233.0 | 4.8% | 108.0 | 0.055 | 0.65 | 20 | \$744.00 | Duct sealing in homes with adequately sealed ducts and heat pumps | 18.6% | 65.0% | 0.11 |
| 6120 | Duct Insulation (R-0 to R-8) | MF | NLI | Retrofit | 2,479.0 | 11.4% | 283.0 | 0.171 | 0.65 | 20 | \$453.60 | Installation of duct insulation in homes with poorly insulated ducts and heat pumps | 18.6% | 58.0% | 0.49 |
| 6121 | Window Film (U=0.51, SHGC=0.24) | MF | NLI | Retrofit | 2,734.0 | 17.8% | 486.0 | 0.275 | 0.65 | 10 | \$1,092.00 | Installation of window film on single-pane windows in homes with heat pumps | 18.6% | 97.0% | 0.25 |
| 6122 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | MF | NLI | Retrofit | 2,233.0 | 8.6% | 193.0 | 0.106 | 0.65 | 20 | \$2,071.68 | Installation of ENERGY STAR windows to replace single-pane windows in homes with heat pumps | 18.6% | 97.0% | 0.07 |
| 6123 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | MF | ALL | ROB | 2,233.0 | 8.6% | 193.0 | 0.106 | 0.65 | 20 | \$83.83 | Installation of ENERGY STAR windows instead of double-pane windows in homes with heat pumps | 18.6% | 23.0% | 1.77 |
| 6124 | Low Income Weatherization Package | MF | LI | Retrofit | 2,691.0 | 21.8% | 587.0 | 0.127 | 0.65 | 20 | \$1,828.02 | Installation of package of weatherization measures in homes with heat pumps | 18.6% | 58.4% | 0.21 |
| 6125 | Window Film (U=0.51, SHGC=0.24) | MF | LI | Retrofit | 2,734.0 | 17.8% | 486.0 | 0.275 | 0.65 | 10 | \$1,092.00 | Installation of window film on single-pane windows in homes with heat pumps | 18.6% | 97.0% | 0.25 |
| 6126 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | MF | LI | Retrofit | 2,233.0 | 8.6% | 193.0 | 0.106 | 0.65 | 20 | \$2,071.68 | Installation of ENERGY STAR windows to replace single-pane windows in homes with heat pumps | 18.6% | 97.0% | 0.07 |
| 6127 | Residential New Construction Tier 1 (15% more efficient) | MF | ALL | NC | 1,778.0 | 24.4% | 433.0 | 0.108 | 0.65 | 20 | \$2,561.00 | New home built 15% more efficient than code - in homes with heat pumps | 50.0% | 0.0% | 0.11 |
| 6128 | Residential New Construction Tier 2 (30% more efficient) | MF | ALL | NC | 1,778.0 | 27.7% | 492.0 | 0.119 | 0.65 | 20 | \$3,345.67 | New home built 30% more efficient than code - in homes with heat pumps | 50.0% | 0.0% | 0.10 |
| 6129 | Exterior Wall Insulation: R-0 to R-13 | MF | NLI | Retrofit | 5,516.0 | 40.6% | 2,237.0 | 0.280 | 0.65 | 25 | \$1,509.60 | Addition of exterior wall insulation in poorly homes with non-heat pump electric heating | 16.5% | 90.0% | 0.90 |
| 6130 | Exterior Wall Insulation: R-0 to R-19 | MF | NLI | Retrofit | 5,516.0 | 45.6% | 2,516.0 | 0.326 | 0.65 | 25 | \$1,917.60 | Addition of exterior wall insulation in poorly homes with non-heat pump electric heating | 16.5% | 90.0% | 0.80 |
| 6131 | Air Sealing: 13 ACH50 to 9 ACH50 | MF | NLI | Retrofit | 4,042.0 | 17.8% | 721.0 | 0.045 | 0.65 | 15 | \$385.00 | Air sealing in poorly sealed homes with non-heat pump electric heating | 16.5% | 88.0% | 1.09 |
| 6132 | Air Sealing: 9 ACH50 to 7 ACH50 | MF | NLI | Retrofit | 3,321.0 | 10.3% | 341.0 | 0.021 | 0.65 | 15 | \$385.00 | Air sealing in adequately sealed homes with non-heat pump electric heating | 16.5% | 54.0% | 0.51 |
| 6133 | Duct Sealing: 38.5% to 25% (CFM @25Pa) | MF | NLI | Retrofit | 3,418.0 | 2.8% | 97.0 | 0.113 | 0.65 | 20 | \$744.00 | Duct sealing in homes with poorly sealed ducts and electric furnaces | 2.8% | 65.0% | 0.13 |
| 6134 | Duct Sealing: 25% to 16.25% (CFM @25Pa) | MF | NLI | Retrofit | 3,321.0 | 1.9% | 62.0 | 0.074 | 0.65 | 20 | \$744.00 | Duct sealing in homes with adequately sealed ducts and electric furnaces | 2.8% | 65.0% | 0.08 |
| 6135 | Duct Insulation (R-0 to R-8) | MF | NLI | Retrofit | 3,461.0 | 4.8% | 167.0 | 0.242 | 0.65 | 20 | \$453.60 | Installation of duct insulation in homes with poorly insulated ducts and electric furnaces | 2.8% | 58.0% | 0.41 |
| 6136 | Window Film (U=0.51, SHGC=0.24) | MF | NLI | Retrofit | 4,250.0 | 16.8% | 712.0 | 0.330 | 0.65 | 10 | \$1,092.00 | Installation of window film on single-pane windows in homes with non-heat pump electric heating | 16.5% | 97.0% | 0.34 |
| 6137 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | MF | NLI | Retrofit | 3,321.0 | 8.9% | 297.0 | 0.130 | 0.65 | 20 | \$2,071.68 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-heat pump electric heating | 16.5% | 97.0% | 0.10 |
| 6138 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | MF | ALL | ROB | 3,321.0 | 8.9% | 297.0 | 0.130 | 0.65 | 20 | \$83.83 | Installation of ENERGY STAR windows instead of double-pane windows in homes with non-heat pump electric heating | 16.5% | 23.0% | 2.57 |
| 6139 | Low Income Weatherization Package | MF | LI | Retrofit | 4,249.0 | 24.3% | 1,034.0 | 0.157 | 0.65 | 20 | \$1,828.02 | Installation of package of weatherization measures in homes with non-heat pump electric heating | 16.5% | 58.4% | 0.35 |
| 6140 | Window Film (U=0.51, SHGC=0.24) | MF | LI | Retrofit | 4,250.0 | 16.8% | 712.0 | 0.330 | 0.65 | 10 | \$1,092.00 | Installation of window film on single-pane windows in homes with non-heat pump electric heating | 16.5% | 97.0% | 0.34 |
| 6141 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | MF | LI | Retrofit | 3,321.0 | 8.9% | 297.0 | 0.130 | 0.65 | 20 | \$2,071.68 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-heat pump electric heating | 16.5% | 97.0% | 0.10 |
| 6142 | Exterior Wall Insulation: R-0 to R-13 | MF | NLI | Retrofit | 1,975.0 | 12.0% | 237.0 | 0.278 | 0.65 | 25 | \$1,509.60 | Addition of exterior wall insulation in poorly homes with non-electric heating | 65.0% | 90.0% | 0.15 |
| 6143 | Exterior Wall Insulation: R-0 to R-19 | MF | NLI | Retrofit | 1,975.0 | 13.5% | 266.0 | 0.323 | 0.65 | 25 | \$1,917.60 | Addition of exterior wall insulation in poorly homes with non-electric heating | 65.0% | 90.0% | 0.14 |
| 6144 | Air Sealing: 13 ACH50 to 9 ACH50 | MF | NLI | Retrofit | 1,776.0 | 1.8% | 32.0 | 0.046 | 0.65 | 15 | \$385.00 | Air sealing in poorly sealed homes with non-electric heating | 65.0% | 88.0% | 0.09 |
| 6145 | Air Sealing: 9 ACH50 to 7 ACH50 | MF | NLI | Retrofit | 1,744.0 | 1.1% | 20.0 | 0.024 | 0.65 | 15 | \$385.00 | Air sealing in adequately sealed homes with non-electric heating | 65.0% | 54.0% | 0.05 |
| 6146 | Duct Sealing: 38.5% to 25% (CFM @25Pa) | MF | NLI | Retrofit | 1,850.0 | 5.7% | 106.0 | 0.123 | 0.65 | 20 | \$744.00 | Duct sealing in homes with poorly sealed ducts and non-electric furnaces | 33.2% | 65.0% | 0.14 |
| 6147 | Duct Sealing: 25% to 16.25% (CFM @25Pa) | MF | NLI | Retrofit | 1,744.0 | 4.0% | 70.0 | 0.076 | 0.65 | 20 | \$744.00 | Duct sealing in homes with adequately sealed ducts and non-electric furnaces | 33.2% | 65.0% | 0.09 |
| 6148 | Duct Insulation (R-0 to R-8) | MF | NLI | Retrofit | 1,890.0 | 9.3% | 176.0 | 0.247 | 0.65 | 20 | \$453.60 | Installation of duct insulation in homes with poorly insulated ducts and non-electric furnaces | 33.2% | 58.0% | 0.42 |
| 6149 | Window Film (U=0.51, SHGC=0.24) | MF | NLI | Retrofit | 1,896.0 | 20.6% | 390.0 | 0.325 | 0.65 | 10 | \$1,092.00 | Installation of window film on single-pane windows in homes with non-electric heating | 65.0% | 97.0% | 0.22 |
| 6150 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | MF | NLI | Retrofit | 1,744.0 | 8.1% | 141.0 | 0.128 | 0.65 | 20 | \$2,071.68 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-electric heating | 65.0% | 97.0% | 0.06 |
| 6151 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | MF | ALL | ROB | 1,744.0 | 8.1% | 141.0 | 0.128 | 0.65 | 20 | \$83.83 | Installation of ENERGY STAR windows instead of double-pane windows in homes with non-electric heating | 65.0% | 23.0% | 1.49 |
| 6152 | Low Income Weatherization Package | MF | LI | Retrofit | 1,796.0 | 5.8% | 104.0 | 0.123 | 0.65 | 20 | \$1,417.36 | Installation of package of weatherization measures in homes with non-electric heating | 65.0% | 58.4% | 0.07 |

Measure Assumptions - PPL

| Original Measure Number | Measure Name | Home Type (SFA, SFD, MF) | Income Target | ROB vs. Retrofit vs. ER vs. NC | Base Elec. Use (kWh) | % Elec. Savings | Annual Elec. Savings (kWh) | Per Unit Summer Demand Savings (kW) | Summer CF | Useful Life | Incremental / Full Cost | Measure/End Use Description | Base Saturation | EE Saturation | Measure Level TRC |
|-------------------------|--|--------------------------|---------------|--------------------------------|----------------------|-----------------|----------------------------|-------------------------------------|-----------|-------------|-------------------------|---|-----------------|---------------|-------------------|
| 6153 | Window Film (U=0.51, SHGC=0.24) | MF | LI | Retrofit | 1,896.0 | 20.6% | 390.0 | 0.325 | 0.65 | 10 | \$1,092.00 | Installation of window film on single-pane windows in homes with non-electric heating | 65.0% | 97.0% | 0.22 |
| 6154 | ENERGY STAR Windows (U=0.30, SHGC=0.40) | MF | LI | Retrofit | 1,744.0 | 8.1% | 141.0 | 0.128 | 0.65 | 20 | \$2,071.68 | Installation of ENERGY STAR windows to replace single-pane windows in homes with non-electric heating | 65.0% | 97.0% | 0.06 |
| 6155 | Residential New Construction Tier 1 (15% more efficient) | MF | ALL | NC | 1,243.0 | 8.0% | 100.0 | 0.130 | 0.65 | 20 | \$2,561.00 | New home built 15% more efficient than code - in homes with non-electric heating | 50.0% | 0.0% | 0.04 |
| 6156 | Residential New Construction Tier 2 (30% more efficient) | MF | ALL | NC | 1,243.0 | 22.4% | 278.0 | 0.250 | 0.65 | 20 | \$4,302.19 | New home built 30% more efficient than code - in homes with non-electric heating | 50.0% | 0.0% | 0.06 |
| 7000 | Miscellaneous | | | | | | | | | | | | | | |
| 7001 | Indirect Feedback (Home Energy Reports) - homes with ASHP | SFD | All | Retrofit | 15,815.0 | 1.5% | 237.2 | 0.0271 | 0.65 | 1 | \$0.00 | Home energy reports in homes with heat pumps | 18.6% | 0.0% | 5.00 |
| 7002 | Direct (Real Time) Feedback - homes with ASHP | SFD | All | Retrofit | 15,815.0 | 9.2% | 1,455.0 | 0.1661 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with heat pumps | 18.6% | 5.0% | 1.86 |
| 7003 | Indirect Feedback (Home Energy Reports) - homes with non-ASHP electric heating | SFD | All | Retrofit | 22,468.0 | 1.5% | 337.0 | 0.0385 | 0.65 | 1 | \$0.00 | Home energy reports in homes with non-heat pump electric heating | 16.5% | 0.0% | 5.00 |
| 7004 | Direct (Real Time) Feedback - homes with non-ASHP electric heating | SFD | All | Retrofit | 22,468.0 | 9.2% | 2,067.1 | 0.2360 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with non-heat pump electric heating | 16.5% | 5.0% | 2.65 |
| 7005 | Indirect Feedback (Home Energy Reports) - homes with gas heating | SFD | All | Retrofit | 8,154.0 | 1.5% | 122.3 | 0.0140 | 0.65 | 1 | \$0.00 | Home energy reports in homes with non-electric heating | 65.0% | 0.0% | 5.00 |
| 7006 | Direct (Real Time) Feedback - homes with gas heating | SFD | All | Retrofit | 8,154.0 | 9.2% | 750.2 | 0.0856 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with non-electric heating | 65.0% | 5.0% | 1.01 |
| 7007 | Variable Speed Pool Pumps (with Load Shifting Option) | SFD | All | Retrofit | 706.6 | 84.0% | 593.5 | 0.3908 | 1.00 | 10 | \$750.00 | Installation of a variable speed pool pump to replace a constant speed pool pump | 14.9% | 25.0% | 0.54 |
| 7008 | Indirect Feedback (Home Energy Reports) - homes with ASHP | SFD | All | NC | 16,761.0 | 1.5% | 251.4 | 0.0287 | 0.65 | 1 | \$0.00 | Home energy reports in homes with heat pumps | 50.0% | 0.0% | 5.00 |
| 7009 | Direct (Real Time) Feedback - homes with ASHP | SFD | All | NC | 16,761.0 | 9.2% | 1,542.0 | 0.1760 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with heat pumps | 50.0% | 0.0% | 1.97 |
| 7010 | Indirect Feedback (Home Energy Reports) - homes with gas heating | SFD | All | NC | 8,587.0 | 1.5% | 128.8 | 0.0147 | 0.65 | 1 | \$0.00 | Home energy reports in homes with non-electric heating | 50.0% | 0.0% | 5.00 |
| 7011 | Direct (Real Time) Feedback - homes with gas heating | SFD | All | NC | 8,587.0 | 9.2% | 790.0 | 0.0902 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with non-electric heating | 50.0% | 0.0% | 1.07 |
| 7012 | Variable Speed Pool Pumps (with Load Shifting Option) | SFD | All | NC | 706.6 | 84.0% | 593.5 | 0.3908 | 1.00 | 10 | \$750.00 | Installation of a variable speed pool pump to replace a constant speed pool pump | 14.9% | 0.0% | 0.54 |
| 7013 | Indirect Feedback (Home Energy Reports) - homes with ASHP | SFA | All | Retrofit | 13,904.0 | 1.5% | 208.6 | 0.0238 | 0.65 | 1 | \$0.00 | Home energy reports in homes with heat pumps | 18.6% | 0.0% | 5.00 |
| 7014 | Direct (Real Time) Feedback - homes with ASHP | SFA | All | Retrofit | 13,904.0 | 9.2% | 1,279.2 | 0.1460 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with heat pumps | 18.6% | 5.0% | 1.64 |
| 7015 | Indirect Feedback (Home Energy Reports) - homes with non-ASHP electric heating | SFA | All | Retrofit | 19,112.0 | 1.5% | 286.7 | 0.0327 | 0.65 | 1 | \$0.00 | Home energy reports in homes with non-heat pump electric heating | 16.5% | 0.0% | 5.00 |
| 7016 | Direct (Real Time) Feedback - homes with non-ASHP electric heating | SFA | All | Retrofit | 19,112.0 | 9.2% | 1,758.3 | 0.2007 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with non-heat pump electric heating | 16.5% | 5.0% | 2.25 |
| 7017 | Indirect Feedback (Home Energy Reports) - homes with gas heating | SFA | All | Retrofit | 7,374.0 | 1.5% | 110.6 | 0.0126 | 0.65 | 1 | \$0.00 | Home energy reports in homes with non-electric heating | 65.0% | 0.0% | 5.00 |
| 7018 | Direct (Real Time) Feedback - homes with gas heating | SFA | All | Retrofit | 7,374.0 | 9.2% | 678.4 | 0.0774 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with non-electric heating | 65.0% | 5.0% | 0.92 |
| 7019 | Indirect Feedback (Home Energy Reports) - homes with ASHP | SFA | All | NC | 13,661.0 | 1.5% | 204.9 | 0.0234 | 0.65 | 1 | \$0.00 | Home energy reports in homes with heat pumps | 50.0% | 0.0% | 5.00 |
| 7020 | Direct (Real Time) Feedback - homes with ASHP | SFA | All | NC | 13,661.0 | 9.2% | 1,256.8 | 0.1435 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with heat pumps | 50.0% | 0.0% | 1.61 |
| 7021 | Indirect Feedback (Home Energy Reports) - homes with gas heating | SFA | All | NC | 7,353.0 | 1.5% | 110.3 | 0.0126 | 0.65 | 1 | \$0.00 | Home energy reports in homes with non-electric heating | 50.0% | 0.0% | 5.00 |
| 7022 | Direct (Real Time) Feedback - homes with gas heating | SFA | All | NC | 7,353.0 | 9.2% | 676.5 | 0.0772 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with non-electric heating | 50.0% | 0.0% | 0.91 |
| 7023 | Indirect Feedback (Home Energy Reports) - homes with ASHP | MF | All | Retrofit | 10,114.0 | 1.5% | 151.7 | 0.0173 | 0.65 | 1 | \$0.00 | Home energy reports in homes with heat pumps | 18.6% | 0.0% | 5.00 |
| 7024 | Direct (Real Time) Feedback - homes with ASHP | MF | All | Retrofit | 10,114.0 | 9.2% | 930.5 | 0.1062 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with heat pumps | 18.6% | 5.0% | 1.19 |
| 7025 | Indirect Feedback (Home Energy Reports) - homes with non-ASHP electric heating | MF | All | Retrofit | 11,202.0 | 1.5% | 168.0 | 0.0192 | 0.65 | 1 | \$0.00 | Home energy reports in homes with non-heat pump electric heating | 16.5% | 0.0% | 5.00 |
| 7026 | Direct (Real Time) Feedback - homes with non-ASHP electric heating | MF | All | Retrofit | 11,202.0 | 9.2% | 1,030.6 | 0.1176 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with non-heat pump electric heating | 16.5% | 5.0% | 1.32 |
| 7027 | Indirect Feedback (Home Energy Reports) - homes with gas heating | MF | All | Retrofit | 6,547.0 | 1.5% | 98.2 | 0.0112 | 0.65 | 1 | \$0.00 | Home energy reports in homes with non-electric heating | 65.0% | 0.0% | 5.00 |
| 7028 | Direct (Real Time) Feedback - homes with gas heating | MF | All | Retrofit | 6,547.0 | 9.2% | 602.3 | 0.0688 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with non-electric heating | 65.0% | 5.0% | 0.81 |
| 7029 | Indirect Feedback (Home Energy Reports) - homes with ASHP | MF | All | NC | 9,713.0 | 1.5% | 145.7 | 0.0166 | 0.65 | 1 | \$0.00 | Home energy reports in homes with heat pumps | 50.0% | 0.0% | 5.00 |
| 7030 | Direct (Real Time) Feedback - homes with ASHP | MF | All | NC | 9,713.0 | 9.2% | 893.6 | 0.1020 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with heat pumps | 50.0% | 0.0% | 1.14 |
| 7031 | Indirect Feedback (Home Energy Reports) - homes with gas heating | MF | All | NC | 6,254.0 | 1.5% | 93.8 | 0.0107 | 0.65 | 1 | \$0.00 | Home energy reports in homes with non-electric heating | 50.0% | 0.0% | 5.00 |
| 7032 | Direct (Real Time) Feedback - homes with gas heating | MF | All | NC | 6,254.0 | 9.2% | 575.4 | 0.0657 | 0.65 | 3 | \$109.00 | Real-time visual display feedback in homes with non-electric heating | 50.0% | 0.0% | 0.78 |

Measure Sources - Costs, Savings, Useful Lives

| | All EDCs |
|---|--|
| Base Elec. Use (kWh) | 2015 Pennsylvania Technical Reference Manual, June 2015 |
| | Beopt energy modeling |
| | ENERGY STAR Appliance Savings Calculator, May 2014 |
| | ENERGY STAR Office Equipment Calculator, September 2014 |
| % Elec. Savings | 2015 Pennsylvania Technical Reference Manual, June 2015 |
| | ACEEE (E105): Advanced Metering Initiative and Residential Feedback Programs: A Meta-Review for Household Electricity-Saving Opportunities |
| | Beopt energy modeling |
| | ENERGY STAR Office Equipment Calculator, September 2014 |
| | GDS calculations using 2015 PA TRM or other industry accepted algorithms and equations |
| "Wi-Fi Programmable Controllable Thermostat Pilot Program Evaluation", September 2013. The Cadmus Group, Inc. | |
| Annual Elec. Savings (kWh) | 2015 Pennsylvania Technical Reference Manual, June 2015 |
| | ACEEE (E105): Advanced Metering Initiative and Residential Feedback Programs: A Meta-Review for Household Electricity-Saving Opportunities |
| | Beopt energy modeling |
| | ENERGY STAR Appliance Savings Calculator, May 2014 |
| | ENERGY STAR Office Equipment Calculator, September 2014 |
| | "Wi-Fi Programmable Controllable Thermostat Pilot Program Evaluation", September 2013. The Cadmus Group, Inc. |
| Per Unit Summer Demand Savings (kW) | 2015 Pennsylvania Technical Reference Manual, June 2015 |
| | Beopt energy modeling |
| | ENERGY STAR Office Equipment Calculator, September 2014 |
| | GDS calculations using 2015 PA TRM or other industry accepted algorithms and equations |
| | "Wi-Fi Programmable Controllable Thermostat Pilot Program Evaluation", September 2013. The Cadmus Group, Inc. |
| Summer CF | 2015 Pennsylvania Technical Reference Manual, June 2015 |
| | ENERGY STAR Appliance Savings Calculator, May 2014 |
| | GDS calculations using 2015 PA TRM or other industry accepted algorithms and equations |
| | MEMD: Michigan Energy Measures Database (2013) |
| | Pennsylvania Statewide Act 129 2014 Commercial & Residential Lighting Metering Study, prepared by SWE Team |
| Useful Life | 2010 Efficiency Vermont Technical Reference User Manual (12/14/2010) |
| | 2015 Pennsylvania Technical Reference Manual, June 2015 |
| | Arkansas Technical Reference Manual, Version 3.0 |
| | ENERGY STAR Appliance Savings Calculator, May 2014 |
| | Measure Life Report - Residential and Commercial/Industrial Lighting and HVAC Measures, GDS 2007 |
| | MEMD: Michigan Energy Measures Database (2013) |
| | Mid-Atlantic Technical Reference Manual, Version 4.0 |

Measure Sources - Costs, Savings, Useful Lives

| | All EDCs |
|-------------------------|--|
| Incremental / Full Cost | 2013 Efficiency Vermont TRM User Manual No. 2013-83 |
| | 2015 Pennsylvania Technical Reference Manual, June 2015 |
| | American Solar Energy Society website |
| | Buildings.com |
| | Energy Information Administration - bulb price projections |
| | ENERGY STAR® Residential Clothes Dryer Data and Analysis - August 5, 2013 |
| | Home Depot website |
| | Homewyse.com |
| | Illinois Statewide Technical Reference Manual for Energy Efficiency, Version 3.0 |
| | MEMD: Michigan Energy Measures Database (2013) |
| | National Residential Energy Efficiency Measures Database |
| | NEST website (October 2014) |
| | Northeast Energy Efficiency Partnerships Incremental Cost Study Report |
| | Regional Technical Forum |
| | SWE Residential Incremental Cost Database Version 2.1 |

Baseline Saturation Data Sources

| Duquesne | FE-MetEd | FE-Penelec | FE-PP | FE-WPP | PECO | PPL |
|--|--|--|--|--|--|--|
| Money.cnn.com (http://money.cnn.com/2013/06/26/technology/innovation/tv-sales/) | 2010 First Energy survey database | 2010 First Energy survey database | 2010 First Energy survey database | 2010 First Energy survey database | Money.cnn.com (http://money.cnn.com/2013/06/26/technology/innovation/tv-sales/) | Money.cnn.com (http://money.cnn.com/2013/06/26/technology/innovation/tv-sales/) |
| Pennsylvania Statewide Act 129 Phase II Residential Baseline Study | Money.cnn.com (http://money.cnn.com/2013/06/26/technology/innovation/tv-sales/) | Money.cnn.com (http://money.cnn.com/2013/06/26/technology/innovation/tv-sales/) | Money.cnn.com (http://money.cnn.com/2013/06/26/technology/innovation/tv-sales/) | Allegheny Energy Residential Appliance Saturation Survey, June 2009 | PECO Baseline Study Volume I of II, February 2011 | Pennsylvania Statewide Act 129 Phase II Residential Baseline Study |
| PPL 2010 Residential Saturation Study Final Report, January 2011. | Pennsylvania Statewide Act 129 Phase II Residential Baseline Study | Pennsylvania Statewide Act 129 Phase II Residential Baseline Study | Pennsylvania Statewide Act 129 Phase II Residential Baseline Study | Money.cnn.com (http://money.cnn.com/2013/06/26/technology/innovation/tv-sales/) | Pennsylvania Statewide Act 129 Phase II Residential Baseline Study | PPL 2010 Residential Saturation Study Final Report, January 2011. |
| | PPL 2010 Residential Saturation Study Final Report, January 2011. | PPL 2010 Residential Saturation Study Final Report, January 2011. | PPL 2010 Residential Saturation Study Final Report, January 2011. | PPL 2010 Residential Saturation Study Final Report, January 2011. | PPL 2010 Residential Saturation Study Final Report, January 2011. | |

EE Saturation Data Sources

| Duquesne | FE-MetEd | FE-Penelec | FE-PP | FE-WPP | PECO | PPL |
|---|---|---|---|---|---|--|
| Pennsylvania Statewide Act 129 Phase II Residential Baseline Study | Pennsylvania Statewide Act 129 Phase II Residential Baseline Study | Pennsylvania Statewide Act 129 Phase II Residential Baseline Study | Pennsylvania Statewide Act 129 Phase II Residential Baseline Study | Pennsylvania Statewide Act 129 Phase II Residential Baseline Study | Pennsylvania Statewide Act 129 Phase II Residential Baseline Study | 2010 PPL: 2010 Residential Saturation Study Final Report, January 2011. |
| Consortium for Energy Efficiency: High Efficiency Residential Swimming Pool Initiative | Consortium for Energy Efficiency: High Efficiency Residential Swimming Pool Initiative | Consortium for Energy Efficiency: High Efficiency Residential Swimming Pool Initiative | Consortium for Energy Efficiency: High Efficiency Residential Swimming Pool Initiative | Consortium for Energy Efficiency: High Efficiency Residential Swimming Pool Initiative | Consortium for Energy Efficiency: High Efficiency Residential Swimming Pool Initiative | Pennsylvania Statewide Act 129 Phase II Residential Baseline Study |
| Codes and Standards Enhancement Initiative For PY2004: Title 20 Standards Development Analysis of Standards Options for Whole House Fans (Davis Energy Group); Table 1 (Fraction of households with whole house fans from 1989-1994) | Codes and Standards Enhancement Initiative For PY2004: Title 20 Standards Development Analysis of Standards Options for Whole House Fans (Davis Energy Group); Table 1 (Fraction of households with whole house fans from 1989-1994) | Codes and Standards Enhancement Initiative For PY2004: Title 20 Standards Development Analysis of Standards Options for Whole House Fans (Davis Energy Group); Table 1 (Fraction of households with whole house fans from 1989-1994) | Codes and Standards Enhancement Initiative For PY2004: Title 20 Standards Development Analysis of Standards Options for Whole House Fans (Davis Energy Group); Table 1 (Fraction of households with whole house fans from 1989-1994) | Codes and Standards Enhancement Initiative For PY2004: Title 20 Standards Development Analysis of Standards Options for Whole House Fans (Davis Energy Group); Table 1 (Fraction of households with whole house fans from 1989-1994) | Codes and Standards Enhancement Initiative For PY2004: Title 20 Standards Development Analysis of Standards Options for Whole House Fans (Davis Energy Group); Table 1 (Fraction of households with whole house fans from 1989-1994) | Consortium for Energy Efficiency: High Efficiency Residential Swimming Pool Initiative |
| Department of Energy Technical Support Document: Energy Efficiency Program for Consumer Products and Commercial and Industrial Equipment: Residential Furnace Fans. July 2012. | Department of Energy Technical Support Document: Energy Efficiency Program for Consumer Products and Commercial and Industrial Equipment: Residential Furnace Fans. July 2012. | Department of Energy Technical Support Document: Energy Efficiency Program for Consumer Products and Commercial and Industrial Equipment: Residential Furnace Fans. July 2012. | Department of Energy Technical Support Document: Energy Efficiency Program for Consumer Products and Commercial and Industrial Equipment: Residential Furnace Fans. July 2012. | Department of Energy Technical Support Document: Energy Efficiency Program for Consumer Products and Commercial and Industrial Equipment: Residential Furnace Fans. July 2012. | Department of Energy Technical Support Document: Energy Efficiency Program for Consumer Products and Commercial and Industrial Equipment: Residential Furnace Fans. July 2012. | Department of Energy Technical Support Document: Energy Efficiency Program for Consumer Products and Commercial and Industrial Equipment: Residential Furnace Fans. July 2012. |
| ENERGY STAR Unit Shipment Data | ENERGY STAR Unit Shipment Data | ENERGY STAR Unit Shipment Data | ENERGY STAR Unit Shipment Data | ENERGY STAR Unit Shipment Data | ENERGY STAR Unit Shipment Data | ENERGY STAR Unit Shipment Data |
| ENERGY STAR Market & Industry Scoping Report Residential Clothes Dryers November 2011 | ENERGY STAR Market & Industry Scoping Report Residential Clothes Dryers November 2011 | ENERGY STAR Market & Industry Scoping Report Residential Clothes Dryers November 2011 | ENERGY STAR Market & Industry Scoping Report Residential Clothes Dryers November 2011 | ENERGY STAR Market & Industry Scoping Report Residential Clothes Dryers November 2011 | ENERGY STAR Market & Industry Scoping Report Residential Clothes Dryers November 2011 | ENERGY STAR Market & Industry Scoping Report Residential Clothes Dryers November 2011 |
| Michigan Residential Study 2011: Residential Baseline Report, The Cadmus Group, Inc. July 2011 | Michigan Residential Study 2011: Residential Baseline Report, The Cadmus Group, Inc. July 2011 | Michigan Residential Study 2011: Residential Baseline Report, The Cadmus Group, Inc. July 2011 | Michigan Residential Study 2011: Residential Baseline Report, The Cadmus Group, Inc. July 2011 | Michigan Residential Study 2011: Residential Baseline Report, The Cadmus Group, Inc. July 2011 | Michigan Residential Study 2011: Residential Baseline Report, The Cadmus Group, Inc. July 2011 | Michigan Residential Study 2011: Residential Baseline Report, The Cadmus Group, Inc. July 2011 |

APPENDIX E

COMMERCIAL SECTOR ASSUMPTIONS BY EDC

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|---|-----------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Education | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.2 |
| DLC | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Education | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.2 |
| DLC | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Education | Cooking | Early | steamer | 43 | 48% | 0.00 | 12 | \$5,053 | 81% | 0.0 |
| DLC | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Education | Cooking | New | steamer | 34 | 34% | 0.00 | 12 | \$601 | 81% | 0.0 |
| DLC | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Education | Cooking | ROB | steamer | 34 | 34% | 0.00 | 12 | \$601 | 81% | 0.0 |
| DLC | Electric combination oven (Energy Star) | Standard Oven | Education | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 3.3 |
| DLC | Electric combination oven (Energy Star) | Standard Oven | Education | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 3.3 |
| DLC | Electric Convection Oven ENERTY STAR (74% Eff) | Conventional convection oven w/ 65% efficiency | Education | Cooking | Early | oven | 6,481 | 37% | 0.5 | 12 | \$4,119 | 81% | 0.4 |
| DLC | Electric Convection Oven ENERTY STAR (74% Eff) | Conventional convection oven w/ 70% efficiency | Education | Cooking | New | oven | 5,186 | 22% | 0.2 | 12 | \$1,113 | 81% | 0.6 |
| DLC | Electric Convection Oven ENERTY STAR (74% Eff) | Conventional convection oven w/ 70% efficiency | Education | Cooking | ROB | oven | 5,186 | 22% | 0.2 | 12 | \$1,113 | 81% | 0.6 |
| DLC | High Efficiency Fryer (ENERGY STAR 84% Eff) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Education | Cooking | Early | fryer | 4,591 | 24% | 0.2 | 12 | \$9,241 | 86% | 0.1 |
| DLC | High Efficiency Fryer (ENERGY STAR 84% Eff) | Standard Electric Fryer meeting Code Minimum | Education | Cooking | New | fryer | 4,591 | 24% | 0.2 | 12 | \$2,366 | 86% | 0.3 |
| DLC | High Efficiency Fryer (ENERGY STAR 84% Eff) | Standard Electric Fryer meeting Code Minimum | Education | Cooking | ROB | fryer | 4,591 | 24% | 0.2 | 12 | \$2,366 | 86% | 0.3 |
| DLC | High Efficiency Griddle (ENERGY STAR 75% Eff) | Efficiency code minimum griddle (70% eff) | Education | Cooking | Early | griddle | 8,725 | 67% | 1.1 | 12 | \$4,977 | 86% | 0.8 |
| DLC | High Efficiency Griddle (ENERGY STAR 75% Eff) | Conventional Griddle w/ 60% efficiency | Education | Cooking | New | griddle | 5,556 | 48% | 0.5 | 12 | \$1,700 | 86% | 1.0 |
| DLC | High Efficiency Griddle (ENERGY STAR 75% Eff) | Conventional Griddle w/ 60% efficiency | Education | Cooking | ROB | griddle | 5,556 | 48% | 0.5 | 12 | \$1,700 | 86% | 1.0 |
| DLC | High Efficiency Induction Cooking | Standard Cooking | Education | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.2 |
| DLC | High Efficiency Induction Cooking | Standard Cooking | Education | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.2 |
| DLC | Adding reflective roof treatment | Std color roof | Education | Cooling Central | Existing | building | 9,479 | 7.0% | 0.07 | 6 | \$19,275 | 82% | 0.0 |
| DLC | Adding reflective roof treatment | Std color roof | Education | Cooling Central | New | building | 9,479 | 7.0% | 0.07 | 6 | \$19,275 | 82% | 0.0 |
| DLC | Adding window shade film | No shade film | Education | Cooling Central | Existing | building | 9,479 | 1.3% | 0.4 | 10 | \$115 | 12% | 2.7 |
| DLC | Adding window shade film | No shade film | Education | Cooling Central | New | building | 9,479 | 1.3% | 0.4 | 10 | \$115 | 13% | 2.7 |
| DLC | Adding window shade screen | No shade screen | Education | Cooling Central | Existing | building | 9,479 | 1.0% | 0.01 | 10 | \$45 | 13% | 1.0 |
| DLC | Adding window shade screen | No shade screen | Education | Cooling Central | New | building | 9,479 | 1.1% | 0.01 | 10 | \$45 | 13% | 1.0 |
| DLC | Automated control system | Manual Controls | Education | Cooling Central | Existing | building | 9,479 | 17% | 0.2 | 15 | \$10,377 | 51% | 0.1 |
| DLC | Automated control system | Manual Controls | Education | Cooling Central | New | building | 9,479 | 17% | 0.2 | 15 | \$10,377 | 94% | 0.1 |
| DLC | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Education | Cooling Central | Existing | building | 9,479 | 1.6% | 0.02 | 15 | \$26,439 | 71% | 0.0 |
| DLC | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Education | Cooling Central | New | building | 9,479 | 0.5% | 0.01 | 15 | \$25,131 | 94% | 0.0 |
| DLC | Chiller Tuneup/Diagnostics | No tuneup | Education | Cooling Central | Existing | building | 9,479 | 8.0% | 0.08 | 10 | \$24,204 | 59% | 0.0 |
| DLC | Chiller Tuneup/Diagnostics | No tuneup | Education | Cooling Central | New | building | 9,479 | 8.0% | 0.08 | 10 | \$24,204 | 59% | 0.0 |
| DLC | Commercial energy recovery ventilation systems | No Commercial Recovery System | Education | Cooling Central | Existing | building | 9,479 | 16% | 0.2 | 14 | \$8,566 | 71% | 0.1 |
| DLC | Cooling Tower Optimization | No Cooling Tower Optimization | Education | Cooling Central | Existing | building | 9,479 | 20% | 0.2 | 10 | \$58 | 69% | 15.0 |
| DLC | Duct Insulation, Add R8 | No Insulation | Education | Cooling Central | Existing | building | 9,479 | 1.4% | 0.04 | 15 | \$75 | 20% | 1.6 |
| DLC | Duct Insulation, Add R8 | No Insulation | Education | Cooling Central | New | building | 9,479 | 1.4% | 0.04 | 15 | \$75 | 10% | 1.6 |
| DLC | Facility Commissioning | No Facility Commissioning | Education | Cooling Central | New | building | 9,479 | 16% | 0.2 | 10 | \$5,234 | 89% | 0.1 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Education | Cooling Central | Existing | building | 9,479 | 7.0% | 0.07 | 15 | \$42,046 | 25% | 0.0 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Education | Cooling Central | New | building | 9,479 | 7.0% | 0.07 | 15 | \$42,046 | 35% | 0.0 |
| DLC | Hi Eff HVAC System Design | No HVAC Design | Education | Cooling Central | New | building | 9,479 | 14% | 0.1 | 10 | \$77,679 | 51% | 0.0 |
| DLC | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Education | Cooling Central | Early | ton | 5,660 | 24% | 0.5 | 15 | \$108,550 | 88% | 0.0 |
| DLC | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Education | Cooling Central | New | ton | 4,627 | 6.7% | 0.1 | 15 | \$12,927 | 88% | 0.0 |
| DLC | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Education | Cooling Central | ROB | ton | 4,627 | 6.7% | 0.1 | 15 | \$12,927 | 88% | 0.0 |
| DLC | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Education | Cooling Central | Early | ton | 8,457 | 23% | 0.7 | 15 | \$140,105 | 88% | 0.0 |
| DLC | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Education | Cooling Central | New | ton | 6,804 | 4.8% | 0.1 | 15 | \$9,336 | 88% | 0.0 |
| DLC | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Education | Cooling Central | ROB | ton | 6,804 | 4.8% | 0.1 | 15 | \$9,336 | 88% | 0.0 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Education | Cooling Central | Early | ton | 69,231 | 26% | 6.2 | 15 | \$105,354 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Education | Cooling Central | New | ton | 60,320 | 15% | 3.1 | 15 | \$30,530 | 88% | 0.3 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Education | Cooling Central | ROB | ton | 60,320 | 15% | 3.1 | 15 | \$30,530 | 88% | 0.3 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Education | Cooling Central | Early | ton | 103,689 | 23% | 8.2 | 15 | \$154,107 | 88% | 0.1 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Education | Cooling Central | New | ton | 95,252 | 16% | 5.3 | 15 | \$27,646 | 88% | 0.5 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Education | Cooling Central | ROB | ton | 95,252 | 16% | 5.3 | 15 | \$27,646 | 88% | 0.5 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Education | Cooling Central | Early | ton | 172,208 | 23% | 13.5 | 15 | \$302,924 | 88% | 0.1 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Education | Cooling Central | New | ton | 155,861 | 14% | 7.8 | 15 | \$115,432 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Education | Cooling Central | ROB | ton | 155,861 | 14% | 7.8 | 15 | \$115,432 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Education | Cooling Central | Early | ton | 206,650 | 23% | 16.2 | 15 | \$350,154 | 88% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|--|-----------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Education | Cooling Central | New | ton | 187,033 | 14% | 9.4 | 15 | \$120,406 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Education | Cooling Central | ROB | ton | 187,033 | 14% | 9.4 | 15 | \$120,406 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Education | Cooling Central | Early | ton | 45,806 | 29% | 4.7 | 15 | \$83,632 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Education | Cooling Central | New | ton | 35,568 | 8.9% | 1.1 | 15 | \$40,211 | 88% | 0.1 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Education | Cooling Central | ROB | ton | 35,568 | 8.9% | 1.1 | 15 | \$40,211 | 88% | 0.1 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Education | Cooling Central | Early | ton | 78,706 | 35% | 9.5 | 15 | \$132,173 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Education | Cooling Central | New | ton | 58,701 | 13% | 2.6 | 15 | \$39,556 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Education | Cooling Central | ROB | ton | 58,701 | 13% | 2.6 | 15 | \$39,556 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Education | Cooling Central | Early | ton | 131,405 | 39% | 17.9 | 15 | \$187,029 | 88% | 0.3 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Education | Cooling Central | New | ton | 93,690 | 15% | 4.8 | 15 | \$33,554 | 88% | 0.4 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Education | Cooling Central | ROB | ton | 93,690 | 15% | 4.8 | 15 | \$33,554 | 88% | 0.4 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Education | Cooling Central | Early | ton | 22,994 | 30% | 2.4 | 15 | \$32,398 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Education | Cooling Central | New | ton | 18,218 | 11% | 0.7 | 15 | \$7,188 | 88% | 0.3 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Education | Cooling Central | ROB | ton | 18,218 | 11% | 0.7 | 15 | \$7,188 | 88% | 0.3 |
| DLC | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Education | Cooling Central | Existing | building | 9,479 | 3.5% | 0.04 | 10 | \$1,851 | 81% | 0.1 |
| DLC | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Education | Cooling Central | New | building | 9,479 | 3.5% | 0.04 | 10 | \$1,851 | 81% | 0.1 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Education | Cooling Central | Existing | building | 9,479 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.3 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Education | Cooling Central | New | building | 9,479 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.6 |
| DLC | Re-Commissioning (Existing Construction) | No Re-Commissioning | Education | Cooling Central | Existing | building | 9,479 | 16% | 0.2 | 5 | \$9,680 | 86% | 0.0 |
| DLC | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Education | Cooling Central | Existing | building | 9,479 | 3.6% | 0.04 | 15 | \$6,377 | 26% | 0.0 |
| DLC | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Education | Cooling Central | New | building | 9,479 | 0.1% | 0.00 | 15 | \$4,891 | 94% | 0.0 |
| DLC | <65k BTU/hr 14 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Education | Cooling Unitary | Early | ton | 1,227 | 16% | 0.1 | 15 | \$1,545 | 29% | 0.2 |
| DLC | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Education | Cooling Unitary | New | ton | 1,112 | 7.1% | 0.06 | 15 | \$339 | 29% | 0.3 |
| DLC | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Education | Cooling Unitary | ROB | ton | 1,112 | 7.1% | 0.06 | 15 | \$339 | 29% | 0.3 |
| DLC | <65k BTU/hr 15 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Education | Cooling Unitary | Early | ton | 1,227 | 22% | 0.2 | 15 | \$1,821 | 30% | 0.2 |
| DLC | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Education | Cooling Unitary | New | ton | 1,112 | 13% | 0.1 | 15 | \$714 | 30% | 0.3 |
| DLC | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Education | Cooling Unitary | ROB | ton | 1,112 | 13% | 0.1 | 15 | \$714 | 30% | 0.3 |
| DLC | <65k BTU/hr 16 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Education | Cooling Unitary | Early | ton | 1,227 | 26% | 0.2 | 15 | \$2,098 | 31% | 0.2 |
| DLC | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Education | Cooling Unitary | New | ton | 1,112 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.3 |
| DLC | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Education | Cooling Unitary | ROB | ton | 1,112 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.3 |
| DLC | >760k min 10.2 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Education | Cooling Unitary | Early | ton | 31,052 | 3.7% | 0.9 | 15 | \$68,066 | 56% | 0.0 |
| DLC | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Education | Cooling Unitary | New | ton | 31,450 | 4.9% | 1.2 | 15 | \$6,231 | 56% | 0.3 |
| DLC | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Education | Cooling Unitary | ROB | ton | 31,450 | 4.9% | 1.2 | 15 | \$6,231 | 56% | 0.3 |
| DLC | 135-240k min 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Education | Cooling Unitary | Early | ton | 7,640 | 18% | 1.0 | 15 | \$18,135 | 79% | 0.1 |
| DLC | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Education | Cooling Unitary | New | ton | 6,950 | 10.0% | 0.5 | 15 | \$1,948 | 79% | 0.5 |
| DLC | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Education | Cooling Unitary | ROB | ton | 6,950 | 10.0% | 0.5 | 15 | \$1,948 | 79% | 0.5 |
| DLC | 240k-760k min 11 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Education | Cooling Unitary | Early | ton | 20,429 | 9.0% | 1.4 | 15 | \$44,809 | 66% | 0.1 |
| DLC | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Education | Cooling Unitary | New | ton | 20,480 | 9.3% | 1.4 | 15 | \$4,813 | 66% | 0.5 |
| DLC | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Education | Cooling Unitary | ROB | ton | 20,480 | 9.3% | 1.4 | 15 | \$4,813 | 66% | 0.5 |
| DLC | 65k-135k BTU/hr 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Education | Cooling Unitary | Early | ton | 4,504 | 17% | 0.6 | 15 | \$10,946 | 86% | 0.1 |
| DLC | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Education | Cooling Unitary | New | ton | 4,014 | 6.7% | 0.2 | 15 | \$1,392 | 86% | 0.3 |
| DLC | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Education | Cooling Unitary | ROB | ton | 4,014 | 6.7% | 0.2 | 15 | \$1,392 | 86% | 0.3 |
| DLC | Adding reflective roof treatment | Std color roof | Education | Cooling Unitary | Existing | building | 140,710 | 7.1% | 0.07 | 6 | \$19,275 | 82% | 0.1 |
| DLC | Adding reflective roof treatment | Std color roof | Education | Cooling Unitary | New | building | 140,710 | 7.0% | 0.07 | 6 | \$19,275 | 82% | 0.1 |
| DLC | Adding window shade film | No shade film | Education | Cooling Unitary | Existing | building | 140,710 | 1.3% | 0.4 | 10 | \$1,712 | 12% | 0.6 |
| DLC | Adding window shade film | No shade film | Education | Cooling Unitary | New | building | 140,710 | 1.3% | 0.4 | 10 | \$1,712 | 13% | 0.6 |
| DLC | Adding window shade screen | No shade screen | Education | Cooling Unitary | Existing | building | 140,710 | 1.1% | 0.01 | 10 | \$662 | 12% | 0.9 |
| DLC | Adding window shade screen | No shade screen | Education | Cooling Unitary | New | building | 140,710 | 1.1% | 0.01 | 10 | \$662 | 13% | 0.9 |
| DLC | Automated control system | Manual Controls | Education | Cooling Unitary | Existing | building | 140,710 | 17% | 0.2 | 15 | \$154,044 | 51% | 0.1 |
| DLC | Automated control system | Manual Controls | Education | Cooling Unitary | New | building | 140,710 | 17% | 0.2 | 15 | \$154,044 | 94% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|---|-----------|-----------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Education | Cooling Unitary | Existing | building | 140,710 | 1.6% | 0.02 | 15 | \$26,439 | 71% | 0.1 |
| DLC | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Education | Cooling Unitary | New | building | 140,710 | 0.5% | 0.01 | 15 | \$25,131 | 94% | 0.0 |
| DLC | Commercial energy recovery ventilation systems | No Commercial Recovery System | Education | Cooling Unitary | Existing | building | 140,710 | 16% | 0.2 | 14 | \$127,152 | 71% | 0.1 |
| DLC | Duct Insulation, Add R8 | No Insulation | Education | Cooling Unitary | Existing | building | 140,710 | 1.4% | 0.04 | 15 | \$1,118 | 20% | 1.1 |
| DLC | Duct Insulation, Add R8 | No Insulation | Education | Cooling Unitary | New | building | 140,710 | 1.4% | 0.04 | 15 | \$1,118 | 10% | 1.1 |
| DLC | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Education | Cooling Unitary | Existing | building | 77,390 | 13% | 0.1 | 1 | \$742 | 73% | 0.6 |
| DLC | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Education | Cooling Unitary | New | building | 77,390 | 13% | 0.1 | 1 | \$742 | 73% | 0.6 |
| DLC | ECM Motors for split systems | Std Shaded Pole Motor | Education | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 3.2 |
| DLC | ECM Motors for split systems | Std Shaded Pole Motor | Education | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 3.2 |
| DLC | Facility Commissioning | No Facility Commissioning | Education | Cooling Unitary | New | building | 140,710 | 16% | 0.2 | 10 | \$2,284 | 89% | 4.0 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Education | Cooling Unitary | Existing | building | 140,710 | 7.1% | 0.07 | 15 | \$624,156 | 25% | 0.0 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Education | Cooling Unitary | New | building | 140,710 | 7.1% | 0.07 | 15 | \$624,156 | 35% | 0.0 |
| DLC | Hi Eff HVAC System Design | No HVAC Design | Education | Cooling Unitary | New | building | 140,710 | 14% | 0.1 | 10 | \$9,816 | 51% | 0.8 |
| DLC | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Education | Cooling Unitary | Existing | building | 140,710 | 5.0% | 0.05 | 5 | \$225 | 59% | 5.7 |
| DLC | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Education | Cooling Unitary | Existing | building | 140,710 | 0.0% | 0.02 | 5 | \$225 | 51% | 0.1 |
| DLC | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Education | Cooling Unitary | New | building | 140,710 | 0.0% | 0.02 | 5 | \$135 | 51% | 0.1 |
| DLC | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Education | Cooling Unitary | Existing | building | 140,710 | 3.5% | 0.04 | 10 | \$1,989 | 86% | 1.0 |
| DLC | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Education | Cooling Unitary | New | building | 140,710 | 3.5% | 0.04 | 10 | \$1,989 | 86% | 1.0 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) | Education | Cooling Unitary | Existing | building | 140,710 | 2.0% | 0.02 | 11 | \$286 | 49% | 4.5 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Education | Cooling Unitary | New | building | 140,710 | 1.7% | 0.02 | 11 | \$146 | 49% | 7.5 |
| DLC | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Education | Cooling Unitary | Early | unit | 464 | 19% | 0.06 | 15 | \$849 | 85% | 0.1 |
| DLC | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Education | Cooling Unitary | New | unit | 469 | 20% | 0.06 | 15 | \$356 | 85% | 0.3 |
| DLC | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Education | Cooling Unitary | ROB | unit | 469 | 20% | 0.06 | 15 | \$356 | 85% | 0.3 |
| DLC | Re-Commissioning (Existing Construction) | No Re-Commissioning | Education | Cooling Unitary | Existing | building | 140,710 | 16% | 0.2 | 5 | \$9,680 | 86% | 0.4 |
| DLC | Room AC (w/ louvered sides) | Exisiting efficiency Room AC in Pennsylvania (2000 Federal Standards) | Education | Cooling Unitary | Early | ton | 647 | 13% | 0.03 | 9 | \$348 | 82% | 0.1 |
| DLC | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Education | Cooling Unitary | New | ton | 587 | 4.5% | 0.01 | 9 | \$17 | 82% | 0.9 |
| DLC | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Education | Cooling Unitary | ROB | ton | 587 | 4.5% | 0.01 | 9 | \$17 | 82% | 0.9 |
| DLC | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Education | Cooling Unitary | Existing | building | 140,710 | 3.6% | 0.04 | 15 | \$6,377 | 26% | 0.5 |
| DLC | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Education | Cooling Unitary | New | building | 140,710 | 0.1% | 0.00 | 15 | \$4,891 | 94% | 0.0 |
| DLC | 80W Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Education | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 0% | 0.2 |
| DLC | 80W Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Education | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| DLC | 80W Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Education | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| DLC | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Education | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 1.2 |
| DLC | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Education | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.7 |
| DLC | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Education | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.7 |
| DLC | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Education | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 75% | 0.3 |
| DLC | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Education | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 75% | 0.2 |
| DLC | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Education | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 3.1 |
| DLC | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Education | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.3 |
| DLC | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Education | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 3.1 |
| DLC | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Education | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.3 |
| DLC | Photocell Controls (Outdoor) | Lighting w/ No Controls | Education | Ext. Lighting | Existing | building | 726 | 28% | 0.3 | 8 | \$15,932 | 88% | 0.0 |
| DLC | Photocell Controls (Outdoor) | Lighting w/ No Controls | Education | Ext. Lighting | New | building | 726 | 28% | 0.3 | 8 | \$15,932 | 0% | 0.0 |
| DLC | Adding reflective roof treatment | Std color roof | Education | Heat Pump | Existing | building | 14,618 | 6.9% | 0.07 | 6 | \$19,275 | 82% | 0.0 |
| DLC | Adding reflective roof treatment | Std color roof | Education | Heat Pump | New | building | 14,618 | 6.9% | 0.07 | 6 | \$19,275 | 82% | 0.0 |
| DLC | Adding window shade film | No shade film | Education | Heat Pump | Existing | building | 14,618 | 3.9% | 0.4 | 10 | \$178 | 12% | 2.7 |
| DLC | Adding window shade film | No shade film | Education | Heat Pump | New | building | 14,618 | 3.9% | 0.4 | 10 | \$178 | 12% | 2.7 |
| DLC | Adding window shade screen | No shade screen | Education | Heat Pump | Existing | building | 14,618 | 0.3% | 0.01 | 10 | \$23 | 12% | 1.2 |
| DLC | Adding window shade screen | No shade screen | Education | Heat Pump | New | building | 14,618 | 0.3% | 0.01 | 10 | \$23 | 12% | 1.2 |
| DLC | Automated control system | Manual Controls | Education | Heat Pump | Existing | building | 14,618 | 17% | 0.2 | 15 | \$16,003 | 51% | 0.1 |
| DLC | Automated control system | Manual Controls | Education | Heat Pump | New | building | 14,618 | 17% | 0.2 | 15 | \$16,003 | 94% | 0.1 |
| DLC | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Education | Heat Pump | Existing | building | 14,618 | 1.6% | 0.02 | 15 | \$26,439 | 71% | 0.0 |
| DLC | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Education | Heat Pump | New | building | 14,618 | 0.5% | 0.01 | 15 | \$25,131 | 94% | 0.0 |
| DLC | Commercial energy recovery ventilation systems | No Commercial Recovery System | Education | Heat Pump | Existing | building | 14,618 | 16% | 0.2 | 14 | \$614,557 | 71% | 0.0 |
| DLC | Duct Insulation, Add R8 | No Insulation | Education | Heat Pump | Existing | building | 14,618 | 4.0% | 0.04 | 15 | \$116 | 12% | 3.4 |
| DLC | Duct Insulation, Add R8 | No Insulation | Education | Heat Pump | New | building | 14,618 | 4.0% | 0.04 | 15 | \$116 | 6% | 3.4 |
| DLC | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Education | Heat Pump | Early | heat pump | 1,397 | 12% | 0.01 | 15 | \$4,070 | 83% | 0.0 |
| DLC | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Education | Heat Pump | New | heat pump | 1,338 | 7.9% | 0.01 | 15 | \$1,097 | 83% | 0.1 |
| DLC | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Education | Heat Pump | ROB | heat pump | 1,338 | 7.9% | 0.01 | 15 | \$1,097 | 83% | 0.1 |
| DLC | Facility Commissioning | No Facility Commissioning | Education | Heat Pump | New | building | 14,618 | 16% | 0.2 | 10 | \$5,234 | 89% | 0.2 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Education | Heat Pump | Existing | building | 14,618 | 7.0% | 0.07 | 15 | \$64,840 | 25% | 0.0 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Education | Heat Pump | New | building | 14,618 | 7.0% | 0.07 | 15 | \$64,840 | 35% | 0.0 |
| DLC | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Education | Heat Pump | Early | heat pump | 14,291 | 15% | 0.2 | 15 | \$91,117 | 19% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|--|-----------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Education | Heat Pump | New | heat pump | 13,823 | 12% | 0.1 | 15 | \$33,927 | 19% | 0.0 |
| DLC | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Education | Heat Pump | ROB | heat pump | 13,823 | 12% | 0.1 | 15 | \$33,927 | 19% | 0.0 |
| DLC | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Education | Heat Pump | Early | heat pump | 14,291 | 15% | 0.2 | 15 | \$58,356 | 19% | 0.0 |
| DLC | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Education | Heat Pump | New | heat pump | 13,823 | 12% | 0.1 | 15 | \$1,167 | 19% | 1.0 |
| DLC | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Education | Heat Pump | ROB | heat pump | 13,823 | 12% | 0.1 | 15 | \$1,167 | 19% | 1.0 |
| DLC | Hi Eff HVAC System Design | No HVAC Design | Education | Heat Pump | New | building | 14,618 | 14% | 0.1 | 10 | \$77,679 | 51% | 0.0 |
| DLC | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Education | Heat Pump | Early | heat pump | 3,726 | 16% | 0.05 | 12 | \$4,298 | 81% | 0.1 |
| DLC | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Education | Heat Pump | New | heat pump | 3,569 | 12% | 0.04 | 12 | \$852 | 81% | 0.3 |
| DLC | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Education | Heat Pump | ROB | heat pump | 3,569 | 12% | 0.04 | 12 | \$852 | 81% | 0.3 |
| DLC | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Education | Heat Pump | Existing | building | 14,618 | 5.0% | 0.06 | 5 | \$90 | 51% | 1.7 |
| DLC | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Education | Heat Pump | New | building | 14,618 | 5.0% | 0.06 | 5 | \$90 | 51% | 1.7 |
| DLC | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Education | Heat Pump | Existing | building | 14,618 | 3.5% | 0.04 | 10 | \$1,771 | 81% | 0.1 |
| DLC | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Education | Heat Pump | New | building | 14,618 | 3.5% | 0.04 | 10 | \$1,771 | 81% | 0.1 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Education | Heat Pump | Existing | building | 14,618 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.6 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Education | Heat Pump | New | building | 14,618 | 2.1% | 0.02 | 11 | \$146 | 49% | 1.0 |
| DLC | Re-Commissioning (Existing Construction) | No Re-Commissioning | Education | Heat Pump | Existing | building | 14,618 | 16% | 0.2 | 5 | \$9,680 | 86% | 0.1 |
| DLC | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Education | Heat Pump | New | measure | 1,891,834 | 2.0% | 4.3 | 13 | \$238,160 | 43% | 0.1 |
| DLC | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Education | Heat Pump | ROB | measure | 1,891,834 | 2.0% | 4.3 | 13 | \$238,160 | 43% | 0.1 |
| DLC | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Education | Heat Pump | Existing | building | 14,618 | 3.6% | 0.04 | 15 | \$6,377 | 26% | 0.1 |
| DLC | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Education | Heat Pump | New | building | 14,618 | 0.1% | 0.00 | 15 | \$4,891 | 94% | 0.0 |
| DLC | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Education | Heat Pump | Early | heat pump | 6,032 | 36% | 0.2 | 15 | \$35,347 | 28% | 0.0 |
| DLC | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Education | Heat Pump | New | heat pump | 5,766 | 33% | 0.2 | 15 | \$15,739 | 28% | 0.1 |
| DLC | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Education | Heat Pump | ROB | heat pump | 5,766 | 33% | 0.2 | 15 | \$15,739 | 28% | 0.1 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Education | High Bay Lighting | Early | Fixture | 499 | 9.6% | 0.01 | 13 | \$850 | 39% | 0.0 |
| DLC | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Education | High Bay Lighting | Early | Fixture | 499 | 9.5% | 0.01 | 13 | \$850 | 28% | 0.0 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Education | High Bay Lighting | Early | Fixture | 770 | 41% | 0.07 | 13 | \$850 | 36% | 0.3 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Education | High Bay Lighting | New | Fixture | 379 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Education | High Bay Lighting | New | Fixture | 353 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Education | High Bay Lighting | New | Fixture | 585 | 41% | 0.05 | 13 | \$397 | 36% | 0.4 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Education | High Bay Lighting | ROB | Fixture | 499 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Education | High Bay Lighting | ROB | Fixture | 465 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Education | High Bay Lighting | ROB | Fixture | 770 | 41% | 0.07 | 13 | \$397 | 36% | 0.6 |
| DLC | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Education | High Bay Lighting | Early | Fixture | 969 | 19% | 0.04 | 13 | \$851 | 38% | 0.2 |
| DLC | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Education | High Bay Lighting | Early | Fixture | 981 | 20% | 0.04 | 13 | \$851 | 38% | 0.2 |
| DLC | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | Early | Fixture | 2,855 | 73% | 0.5 | 13 | \$851 | 38% | 1.8 |
| DLC | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Education | High Bay Lighting | New | Fixture | 737 | 19% | 0.03 | 13 | \$372 | 38% | 0.3 |
| DLC | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | New | Fixture | 2,170 | 73% | 0.4 | 13 | \$383 | 38% | 3.0 |
| DLC | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Education | High Bay Lighting | ROB | Fixture | 969 | 19% | 0.04 | 13 | \$372 | 38% | 0.4 |
| DLC | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | ROB | Fixture | 2,855 | 73% | 0.5 | 13 | \$383 | 38% | 3.9 |
| DLC | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Education | High Bay Lighting | Early | Fixture | 969 | 25% | 0.05 | 13 | \$554 | 29% | 0.3 |
| DLC | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Education | High Bay Lighting | Early | Fixture | 951 | 23% | 0.05 | 13 | \$554 | 28% | 0.3 |
| DLC | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | Early | Fixture | 2,855 | 74% | 0.5 | 13 | \$554 | 36% | 2.8 |
| DLC | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Education | High Bay Lighting | New | Fixture | 737 | 25% | 0.04 | 13 | \$75 | 29% | 1.8 |
| DLC | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | New | Fixture | 2,170 | 74% | 0.4 | 13 | \$86 | 36% | 13.7 |
| DLC | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Education | High Bay Lighting | ROB | Fixture | 969 | 25% | 0.05 | 13 | \$75 | 29% | 2.3 |
| DLC | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | ROB | Fixture | 2,855 | 74% | 0.5 | 13 | \$86 | 36% | 18.0 |
| DLC | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Education | High Bay Lighting | Early | Fixture | 253 | 0.2% | 0.00 | 13 | \$835 | 38% | 0.0 |
| DLC | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Education | High Bay Lighting | Early | Fixture | 544 | 54% | 0.07 | 13 | \$835 | 38% | 0.3 |
| DLC | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Education | High Bay Lighting | New | Fixture | 414 | 54% | 0.05 | 13 | \$382 | 38% | 0.4 |
| DLC | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Education | High Bay Lighting | ROB | Fixture | 544 | 54% | 0.07 | 13 | \$382 | 38% | 0.6 |
| DLC | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Education | High Bay Lighting | Early | Fixture | 1,235 | 18% | 0.05 | 13 | \$487 | 25% | 0.3 |
| DLC | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Education | High Bay Lighting | Early | Fixture | 1,291 | 22% | 0.06 | 13 | \$487 | 28% | 0.4 |
| DLC | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | Early | Fixture | 2,855 | 65% | 0.4 | 13 | \$487 | 36% | 2.7 |
| DLC | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Education | High Bay Lighting | New | Fixture | 938 | 18% | 0.04 | 13 | \$16 | 25% | 7.6 |
| DLC | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | New | Fixture | 2,170 | 65% | 0.3 | 13 | \$18 | 36% | 55.3 |
| DLC | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Education | High Bay Lighting | ROB | Fixture | 1,235 | 18% | 0.05 | 13 | \$16 | 25% | 10.0 |
| DLC | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | ROB | Fixture | 2,855 | 65% | 0.4 | 13 | \$18 | 36% | 72.7 |
| DLC | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Education | High Bay Lighting | Early | Fixture | 1,235 | 1.5% | 0.00 | 13 | \$557 | 19% | 0.0 |
| DLC | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Education | High Bay Lighting | Early | Fixture | 1,271 | 4.3% | 0.01 | 13 | \$557 | 19% | 0.1 |
| DLC | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | Early | Fixture | 2,855 | 57% | 0.4 | 13 | \$557 | 19% | 2.1 |
| DLC | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Education | High Bay Lighting | New | Fixture | 938 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| DLC | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | New | Fixture | 2,170 | 57% | 0.3 | 13 | \$88 | 19% | 10.2 |
| DLC | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Education | High Bay Lighting | ROB | Fixture | 1,235 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.2 |
| DLC | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | ROB | Fixture | 2,855 | 57% | 0.4 | 13 | \$88 | 19% | 13.5 |
| DLC | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Education | High Bay Lighting | Early | Fixture | 524 | 29% | 0.02 | 13 | \$492 | 71% | 0.2 |
| DLC | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Education | High Bay Lighting | Early | Fixture | 438 | 15% | 0.01 | 13 | \$492 | 95% | 0.1 |
| DLC | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Education | High Bay Lighting | Early | Fixture | 651 | 43% | 0.04 | 13 | \$492 | 95% | 0.4 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|---|-----------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Education | High Bay Lighting | Early | Fixture | 604 | 38% | 0.04 | 13 | \$492 | 95% | 0.3 |
| DLC | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Education | High Bay Lighting | New | Fixture | 333 | 15% | 0.01 | 13 | \$25 | 95% | 1.3 |
| DLC | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Education | High Bay Lighting | New | Fixture | 495 | 43% | 0.03 | 13 | \$51 | 95% | 2.7 |
| DLC | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Education | High Bay Lighting | ROB | Fixture | 438 | 15% | 0.01 | 13 | \$25 | 95% | 1.8 |
| DLC | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Education | High Bay Lighting | ROB | Fixture | 651 | 43% | 0.04 | 13 | \$51 | 95% | 3.6 |
| DLC | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Education | High Bay Lighting | Early | lamp | 66 | 16% | 0.00 | 15 | \$7.7 | 99% | 1.2 |
| DLC | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Education | High Bay Lighting | New | lamp | 39 | 13% | 0.00 | 15 | \$1.6 | 91% | 2.6 |
| DLC | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Education | High Bay Lighting | ROB | lamp | 64 | 13% | 0.00 | 15 | \$1.6 | 91% | 4.3 |
| DLC | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Education | High Bay Lighting | Early | Fixture | 2,921 | 23% | 0.2 | 13 | \$613 | 5% | 0.8 |
| DLC | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Education | High Bay Lighting | Early | Fixture | 2,295 | 1.6% | 0.01 | 13 | \$613 | 28% | 0.0 |
| DLC | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Education | High Bay Lighting | Early | Fixture | 5,709 | 60% | 0.8 | 13 | \$613 | 18% | 4.1 |
| DLC | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Education | High Bay Lighting | New | Fixture | 2,220 | 23% | 0.1 | 13 | \$96 | 5% | 3.8 |
| DLC | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Education | High Bay Lighting | ROB | Fixture | 2,921 | 23% | 0.2 | 13 | \$96 | 5% | 5.0 |
| DLC | 85W Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Education | High Bay Lighting | Early | Fixture | 2,921 | 92% | 0.6 | 13 | \$1,916 | 95% | 1.0 |
| DLC | 85W Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | Early | Fixture | 5,709 | 96% | 1.2 | 13 | \$1,916 | 95% | 2.1 |
| DLC | 85W Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Education | High Bay Lighting | New | Fixture | 2,220 | 92% | 0.5 | 13 | \$1,468 | 95% | 1.0 |
| DLC | 85W Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | New | Fixture | 4,339 | 96% | 0.9 | 13 | \$1,149 | 95% | 2.6 |
| DLC | 85W Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Education | High Bay Lighting | ROB | Fixture | 2,921 | 92% | 0.6 | 13 | \$1,468 | 95% | 1.3 |
| DLC | 85W Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | ROB | Fixture | 5,709 | 96% | 1.2 | 13 | \$1,149 | 95% | 3.5 |
| DLC | Auto Off Time Switch | Lighting w/ No Controls | Education | High Bay Lighting | Existing | building | 5,876 | 24% | 0.2 | 8 | \$3,237 | 13% | 0.2 |
| DLC | Auto Off Time Switch | Lighting w/ No Controls | Education | High Bay Lighting | New | building | 5,876 | 6.9% | 0.07 | 8 | \$3,237 | 0% | 0.0 |
| DLC | Central Lighting Control System | Lighting w/ No Controls | Education | High Bay Lighting | Existing | building | 5,876 | 38% | 0.4 | 8 | \$3,237 | 13% | 0.3 |
| DLC | Central Lighting Control System | Lighting w/ No Controls | Education | High Bay Lighting | New | building | 5,876 | 14% | 0.1 | 8 | \$3,237 | 13% | 0.1 |
| DLC | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Education | High Bay Lighting | New | building | 5,876 | 10% | 0.1 | 15 | \$35,171 | 32% | 0.0 |
| DLC | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Education | High Bay Lighting | New | building | 5,876 | 15% | 0.2 | 15 | \$87,927 | 32% | 0.0 |
| DLC | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Education | High Bay Lighting | New | building | 5,876 | 30% | 0.3 | 15 | \$126,028 | 32% | 0.0 |
| DLC | Indoor Daylight Sensors | Lighting w/ No Controls | Education | High Bay Lighting | Existing | building | 5,876 | 28% | 0.3 | 8 | \$15,932 | 13% | 0.0 |
| DLC | Indoor Daylight Sensors | Lighting w/ No Controls | Education | High Bay Lighting | New | building | 5,876 | 4.0% | 0.04 | 8 | \$15,932 | 0% | 0.0 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 365 W High Pressure Sodium Fixture | Education | High Bay Lighting | Early | Fixture | 969 | 67% | 0.1 | 13 | \$960 | 95% | 0.5 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 1075 W Mercury Vapor Fixture | Education | High Bay Lighting | Early | Fixture | 2,855 | 89% | 0.6 | 13 | \$960 | 95% | 1.9 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 295 W Metal Halide Fixture | Education | High Bay Lighting | Early | Fixture | 783 | 59% | 0.1 | 13 | \$960 | 95% | 0.3 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 365 W High Pressure Sodium Fixture | Education | High Bay Lighting | New | Fixture | 737 | 67% | 0.1 | 13 | \$480 | 95% | 0.7 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 1075 W Mercury Vapor Fixture | Education | High Bay Lighting | New | Fixture | 2,170 | 89% | 0.4 | 13 | \$491 | 95% | 2.8 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 295 W Metal Halide Fixture | Education | High Bay Lighting | New | Fixture | 595 | 59% | 0.08 | 13 | \$406 | 95% | 0.6 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 365 W High Pressure Sodium Fixture | Education | High Bay Lighting | ROB | Fixture | 969 | 67% | 0.1 | 13 | \$480 | 95% | 1.0 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 1075 W Mercury Vapor Fixture | Education | High Bay Lighting | ROB | Fixture | 2,855 | 89% | 0.6 | 13 | \$491 | 95% | 3.7 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 295 W Metal Halide Fixture | Education | High Bay Lighting | ROB | Fixture | 783 | 59% | 0.1 | 13 | \$406 | 95% | 0.8 |
| DLC | Occupancy Sensor | Lighting w/ No Controls | Education | High Bay Lighting | Existing | building | 5,876 | 24% | 0.2 | 8 | \$4,877 | 11% | 0.1 |
| DLC | Occupancy Sensor | Lighting w/ No Controls | Education | High Bay Lighting | New | building | 5,876 | 6.9% | 0.07 | 8 | \$4,877 | 0% | 0.0 |
| DLC | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Education | High Bay Lighting | Existing | building | 5,876 | 28% | 0.3 | 8 | \$15,932 | 11% | 0.0 |
| DLC | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Education | High Bay Lighting | New | building | 5,876 | 4.0% | 0.04 | 8 | \$15,932 | 0% | 0.0 |
| DLC | Time Clock Control | Lighting w/ No Controls | Education | High Bay Lighting | Existing | building | 5,876 | 28% | 0.3 | 8 | \$3,237 | 13% | 0.2 |
| DLC | Time Clock Control | Lighting w/ No Controls | Education | High Bay Lighting | New | building | 5,876 | 4.0% | 0.04 | 8 | \$3,237 | 0% | 0.0 |
| DLC | Auto Off Time Switch | Lighting w/ No Controls | Education | Lin. Fluor. Lighting | Existing | building | 52,080 | 24% | 0.2 | 8 | \$3,237 | 13% | 1.2 |
| DLC | Auto Off Time Switch | Lighting w/ No Controls | Education | Lin. Fluor. Lighting | New | building | 52,080 | 7.0% | 0.07 | 8 | \$3,237 | 0% | 0.3 |
| DLC | Central Lighting Control System | Lighting w/ No Controls | Education | Lin. Fluor. Lighting | Existing | building | 52,080 | 38% | 0.4 | 8 | \$3,237 | 12% | 1.9 |
| DLC | Central Lighting Control System | Lighting w/ No Controls | Education | Lin. Fluor. Lighting | New | building | 52,080 | 14% | 0.1 | 8 | \$3,237 | 12% | 0.7 |
| DLC | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Education | Lin. Fluor. Lighting | New | building | 52,080 | 10% | 0.1 | 15 | \$35,171 | 32% | 0.1 |
| DLC | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Education | Lin. Fluor. Lighting | New | building | 52,080 | 15% | 0.2 | 15 | \$87,927 | 32% | 0.1 |
| DLC | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Education | Lin. Fluor. Lighting | New | building | 52,080 | 30% | 0.3 | 15 | \$126,028 | 32% | 0.1 |
| DLC | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Education | Lin. Fluor. Lighting | Early | Lamp | 133 | 38% | 0.01 | 15 | \$7.3 | 94% | 5.7 |
| DLC | Indoor Daylight Sensors | Lighting w/ No Controls | Education | Lin. Fluor. Lighting | Existing | building | 52,080 | 28% | 0.3 | 8 | \$15,932 | 13% | 0.3 |
| DLC | Indoor Daylight Sensors | Lighting w/ No Controls | Education | Lin. Fluor. Lighting | New | building | 52,080 | 4.1% | 0.04 | 8 | \$15,932 | 0% | 0.0 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 28W T8 Lamp, Normal Ballast Factor | Education | Lin. Fluor. Lighting | Early | Lamp | 63 | 19% | 0.00 | 15 | \$35 | 94% | 0.3 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 40W T12 Lamp, Magnetic Ballast | Education | Lin. Fluor. Lighting | Early | Lamp | 137 | 63% | 0.02 | 15 | \$35 | 94% | 2.0 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 28W T5 Lamp, Normal Ballast Factor | Education | Lin. Fluor. Lighting | Early | Lamp | 77 | 34% | 0.01 | 15 | \$35 | 94% | 0.6 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 32W T8 Lamp, Normal Ballast Factor | Education | Lin. Fluor. Lighting | Early | Lamp | 75 | 32% | 0.00 | 15 | \$35 | 94% | 0.6 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 28W T8 Lamp, Normal Ballast Factor | Education | Lin. Fluor. Lighting | New | Lamp | 48 | 19% | 0.00 | 15 | \$28 | 94% | 0.3 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 32W T8 Lamp, Normal Ballast Factor | Education | Lin. Fluor. Lighting | New | Lamp | 57 | 32% | 0.00 | 15 | \$29 | 94% | 0.5 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 28W T5 Lamp, Normal Ballast Factor | Education | Lin. Fluor. Lighting | New | Lamp | 59 | 34% | 0.00 | 15 | \$22 | 94% | 0.8 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 32W T8 Lamp, Normal Ballast Factor | Education | Lin. Fluor. Lighting | New | Lamp | 57 | 32% | 0.00 | 15 | \$29 | 94% | 0.5 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 28W T8 Lamp, Normal Ballast Factor | Education | Lin. Fluor. Lighting | ROB | Lamp | 63 | 19% | 0.00 | 15 | \$28 | 94% | 0.4 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 32W T8 Lamp, Normal Ballast Factor | Education | Lin. Fluor. Lighting | ROB | Lamp | 75 | 32% | 0.00 | 15 | \$29 | 94% | 0.7 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 28W T5 Lamp, Normal Ballast Factor | Education | Lin. Fluor. Lighting | ROB | Lamp | 77 | 34% | 0.01 | 15 | \$22 | 94% | 1.0 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 32W T8 Lamp, Normal Ballast Factor | Education | Lin. Fluor. Lighting | ROB | Lamp | 75 | 32% | 0.00 | 15 | \$29 | 94% | 0.7 |
| DLC | Occupancy Sensor | Lighting w/ No Controls | Education | Lin. Fluor. Lighting | Existing | building | 52,080 | 24% | 0.2 | 8 | \$4,877 | 12% | 0.8 |
| DLC | Occupancy Sensor | Lighting w/ No Controls | Education | Lin. Fluor. Lighting | New | building | 52,080 | 7.0% | 0.07 | 8 | \$4,877 | 0% | 0.2 |
| DLC | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Education | Lin. Fluor. Lighting | Existing | building | 52,080 | 28% | 0.3 | 8 | \$15,932 | 11% | 0.3 |
| DLC | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Education | Lin. Fluor. Lighting | New | building | 52,080 | 4.1% | 0.04 | 8 | \$15,932 | 0% | 0.0 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 40W T12 w/ Magnetic Ballast | Education | Lin. Fluor. Lighting | Early | Lamp | 133 | 54% | 0.02 | 15 | \$9.1 | 94% | 6.5 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|--|-----------|---------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Energy Efficient Laboratory Fume Hood | Std. Fume Hood | Education | Motors | New | measure | 62,400 | 0.4% | 0.00 | 15 | \$62 | 60% | 2.5 |
| DLC | Energy Efficient Laboratory Fume Hood | Std. Fume Hood | Education | Motors | ROB | measure | 62,400 | 0.4% | 0.00 | 15 | \$62 | 60% | 2.5 |
| DLC | Escalator Motor Controller | Constant power control | Education | Motors | New | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 22% | 6.9 |
| DLC | Escalator Motor Controller | Constant power control | Education | Motors | ROB | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 22% | 7.0 |
| DLC | Fan Motor - correct sizing | Incorrect Fan Motor Sizing | Education | Motors | ROB | measure | 60,857 | 1.6% | 0.1 | 15 | \$50 | 92% | 14.7 |
| DLC | Variable Speed Drive Control, 15HP | Existing Motors w/out VSD Drive | Education | Motors | Early | motor | 38,510 | 70% | 4.0 | 15 | \$731 | 86% | 27.7 |
| DLC | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Education | Motors | New | motor | 37,682 | 71% | 4.0 | 15 | \$731 | 86% | 27.6 |
| DLC | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Education | Motors | ROB | motor | 37,682 | 72% | 4.0 | 15 | \$731 | 86% | 27.7 |
| DLC | Variable Speed Drive Control, 40HP | Existing Motors w/out VSD Drive | Education | Motors | Early | motor | 100,486 | 71% | 10.5 | 15 | \$4,666 | 86% | 11.4 |
| DLC | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Education | Motors | New | motor | 99,311 | 72% | 10.5 | 15 | \$4,666 | 86% | 11.4 |
| DLC | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Education | Motors | ROB | motor | 99,311 | 72% | 10.5 | 15 | \$4,666 | 86% | 11.4 |
| DLC | Variable Speed Drive Control, 5HP | Existing Motors w/out VFD Drive | Education | Motors | Early | motor | 13,350 | 71% | 1.4 | 15 | \$2,243 | 86% | 3.2 |
| DLC | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Education | Motors | New | motor | 13,052 | 72% | 1.4 | 15 | \$2,243 | 86% | 3.1 |
| DLC | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Education | Motors | ROB | motor | 13,052 | 72% | 1.4 | 15 | \$2,243 | 86% | 3.1 |
| DLC | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Education | Motors | Early | motor | 68,319 | 1.6% | 0.1 | 15 | \$268 | 40% | 3.1 |
| DLC | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Education | Motors | New | motor | 68,319 | 1.6% | 0.1 | 15 | \$268 | 40% | 3.1 |
| DLC | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Education | Motors | ROB | motor | 68,319 | 1.6% | 0.1 | 15 | \$268 | 40% | 3.1 |
| DLC | VFD on Chilled Water Pump | Motor w/out VFD Drive | Education | Motors | Early | motor | 33,241 | 55% | 2.7 | 15 | \$2,903 | 86% | 4.7 |
| DLC | VFD on Chilled Water Pump | Motor w/out VFD Drive | Education | Motors | New | motor | 32,619 | 55% | 2.7 | 15 | \$2,843 | 86% | 4.8 |
| DLC | VFD on Chilled Water Pump | Motor w/out VFD Drive | Education | Motors | ROB | motor | 32,619 | 55% | 2.7 | 15 | \$2,843 | 86% | 4.8 |
| DLC | VFD on Condenser Water Pump | Motor w/out VFD Drive | Education | Motors | Early | motor | 34,961 | 32% | 3.2 | 15 | \$2,903 | 86% | 3.4 |
| DLC | VFD on Condenser Water Pump | Motor w/out VFD Drive | Education | Motors | New | motor | 34,307 | 33% | 3.1 | 15 | \$2,843 | 86% | 3.5 |
| DLC | VFD on Condenser Water Pump | Motor w/out VFD Drive | Education | Motors | ROB | motor | 34,307 | 33% | 3.1 | 15 | \$2,843 | 86% | 3.5 |
| DLC | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Education | Motors | Early | motor | 36,760 | 56% | 0.00 | 15 | \$2,903 | 86% | 4.3 |
| DLC | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Education | Motors | New | motor | 36,073 | 57% | 0.00 | 15 | \$2,843 | 86% | 4.4 |
| DLC | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Education | Motors | ROB | motor | 36,073 | 57% | 0.00 | 15 | \$2,843 | 86% | 4.4 |
| DLC | VFD on HVAC Fan | Motor w/out VFD | Education | Motors | Early | motor | 37,199 | 70% | 3.4 | 15 | \$2,903 | 86% | 6.6 |
| DLC | VFD on HVAC Fan | Motor w/out VFD | Education | Motors | New | motor | 36,503 | 72% | 3.3 | 15 | \$2,843 | 86% | 6.7 |
| DLC | VFD on HVAC Fan | Motor w/out VFD | Education | Motors | ROB | motor | 36,503 | 72% | 3.3 | 15 | \$2,843 | 86% | 6.7 |
| DLC | Elevators | Std. Eff Elevator | Education | Other | ROB | measure | 89,016 | 1.8% | 0.1 | 15 | \$379 | 81% | 2.9 |
| DLC | Variable Speed Drives on Process Equipment | Constant speed control | Education | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 11.6 |
| DLC | Variable Speed Drives on Process Equipment | Constant speed control | Education | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 11.6 |
| DLC | 9W Exit Sign Retrofit: CFL replacing Incandescent | One 23W Single Sided Incandescent Exit Sign | Education | Other Int. Lighting | Early | exit sign | 139 | 42% | 0.01 | 15 | \$48 | 22% | 0.9 |
| DLC | Auto Off Time Switch | Lighting w/ No Controls | Education | Other Int. Lighting | Existing | building | 45,845 | 24% | 0.2 | 8 | \$3,237 | 13% | 1.0 |
| DLC | Auto Off Time Switch | Lighting w/ No Controls | Education | Other Int. Lighting | New | building | 45,845 | 7.0% | 0.07 | 8 | \$3,237 | 0% | 0.3 |
| DLC | Central Lighting Control System | Lighting w/ No Controls | Education | Other Int. Lighting | Existing | building | 45,845 | 38% | 0.4 | 8 | \$3,237 | 13% | 1.7 |
| DLC | Central Lighting Control System | Lighting w/ No Controls | Education | Other Int. Lighting | New | building | 45,845 | 14% | 0.1 | 8 | \$3,237 | 13% | 0.6 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 40W Incandescent Bulb | Education | Other Int. Lighting | Early | lamp | 145 | 87% | 0.03 | 11 | \$30 | 14% | 2.5 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Education | Other Int. Lighting | Early | lamp | 104 | 81% | 0.02 | 11 | \$30 | 11% | 1.7 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Education | Other Int. Lighting | New | lamp | 79 | 81% | 0.01 | 11 | \$21 | 14% | 1.8 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Education | Other Int. Lighting | New | lamp | 79 | 81% | 0.01 | 11 | \$23 | 14% | 1.7 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Education | Other Int. Lighting | New | lamp | 79 | 81% | 0.01 | 11 | \$22 | 11% | 1.7 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Education | Other Int. Lighting | ROB | lamp | 104 | 81% | 0.02 | 11 | \$21 | 14% | 2.4 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Education | Other Int. Lighting | ROB | lamp | 104 | 81% | 0.02 | 11 | \$23 | 14% | 2.2 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Education | Other Int. Lighting | ROB | lamp | 104 | 81% | 0.02 | 11 | \$22 | 11% | 2.3 |
| DLC | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Education | Other Int. Lighting | Early | lamp | 145 | 75% | 0.02 | 4 | \$73 | 24% | 0.3 |
| DLC | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Education | Other Int. Lighting | New | fixture | 157 | 65% | 0.02 | 13 | \$29 | 28% | 2.5 |
| DLC | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Education | Other Int. Lighting | New | lamp | 79 | 65% | 0.01 | 4 | \$29 | 28% | 0.4 |
| DLC | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Education | Other Int. Lighting | ROB | fixture | 207 | 65% | 0.03 | 13 | \$29 | 24% | 3.3 |
| DLC | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Education | Other Int. Lighting | ROB | lamp | 104 | 65% | 0.01 | 4 | \$29 | 24% | 0.5 |
| DLC | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Education | Other Int. Lighting | Early | lamp | 145 | 75% | 0.02 | 4 | \$3.2 | 24% | 7.2 |
| DLC | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Education | Other Int. Lighting | New | lamp | 79 | 65% | 0.01 | 4 | \$1.8 | 24% | 6.1 |
| DLC | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Education | Other Int. Lighting | ROB | lamp | 104 | 65% | 0.01 | 4 | \$1.8 | 24% | 8.1 |
| DLC | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Education | Other Int. Lighting | ROB | lamp | 104 | 65% | 0.01 | 4 | \$1.8 | 24% | 8.1 |
| DLC | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Education | Other Int. Lighting | New | building | 45,845 | 10% | 0.1 | 15 | \$35,171 | 32% | 0.1 |
| DLC | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Education | Other Int. Lighting | New | building | 45,845 | 15% | 0.2 | 15 | \$87,927 | 32% | 0.0 |
| DLC | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Education | Other Int. Lighting | New | building | 45,845 | 30% | 0.3 | 15 | \$126,028 | 32% | 0.1 |
| DLC | Indoor Daylight Sensors | Lighting w/ No Controls | Education | Other Int. Lighting | Existing | building | 45,845 | 28% | 0.3 | 8 | \$15,932 | 13% | 0.2 |
| DLC | Indoor Daylight Sensors | Lighting w/ No Controls | Education | Other Int. Lighting | New | building | 45,845 | 4.1% | 0.04 | 8 | \$15,932 | 0% | 0.0 |
| DLC | LED Exit Signs Single-sided (5W) | Existing Single-Sided Exit Signs (Average: 16 W) | Education | Other Int. Lighting | Early | sign | 153 | 87% | 0.02 | 15 | \$48 | 16% | 2.0 |
| DLC | LED Exit Signs Single-sided (5W) | One 9W Single-Sided CFL Exit Sign | Education | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 2.2 |
| DLC | LED Exit Signs Single-sided (5W) | One 9W Single-Sided CFL Exit Sign | Education | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 2.2 |
| DLC | LED Task Lighting/Screw-In (10W) | 1 15W CFL bulb | Education | Other Int. Lighting | Early | lamp | 45 | 33% | 0.00 | 8 | \$9.6 | 24% | 0.6 |
| DLC | LED Task Lighting/Screw-In (10W) | 1 60W Incandescent Bulb | Education | Other Int. Lighting | Early | lamp | 179 | 83% | 0.02 | 8 | \$9.6 | 24% | 5.9 |
| DLC | LED Task Lighting/Screw-In (10W) | 1 43W EISA Compliant bulb | Education | Other Int. Lighting | New | lamp | 98 | 77% | 0.01 | 8 | \$7.9 | 24% | 3.6 |
| DLC | LED Task Lighting/Screw-In (10W) | 1 43W EISA Compliant bulb | Education | Other Int. Lighting | New | lamp | 98 | 77% | 0.01 | 8 | \$7.9 | 24% | 3.6 |
| DLC | LED Task Lighting/Screw-In (10W) | 1 43W EISA Compliant bulb | Education | Other Int. Lighting | ROB | lamp | 129 | 77% | 0.01 | 8 | \$7.9 | 24% | 4.7 |
| DLC | LED Task Lighting/Screw-In (10W) | 1 43W EISA Compliant bulb | Education | Other Int. Lighting | ROB | lamp | 129 | 77% | 0.01 | 8 | \$7.9 | 24% | 4.7 |
| DLC | Occupancy Sensor | Lighting w/ No Controls | Education | Other Int. Lighting | Existing | building | 45,845 | 24% | 0.2 | 8 | \$4,877 | 11% | 0.7 |
| DLC | Occupancy Sensor | Lighting w/ No Controls | Education | Other Int. Lighting | New | building | 45,845 | 7.0% | 0.07 | 8 | \$4,877 | 0% | 0.2 |
| DLC | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Education | Other Int. Lighting | Existing | building | 45,845 | 28% | 0.3 | 8 | \$15,932 | 11% | 0.2 |
| DLC | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Education | Other Int. Lighting | New | building | 45,845 | 4.1% | 0.04 | 8 | \$15,932 | 0% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|---|-----------|---------------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Education | Other Int. Lighting | Early | exit sign | 139 | 100% | 0.02 | 15 | \$173 | 26% | 0.6 |
| DLC | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Education | Other Int. Lighting | New | exit sign | 80 | 100% | 0.01 | 15 | \$148 | 31% | 0.4 |
| DLC | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Education | Other Int. Lighting | ROB | exit sign | 80 | 100% | 0.01 | 15 | \$148 | 26% | 0.4 |
| DLC | Time Clock Control | Lighting w/ No Controls | Education | Other Int. Lighting | Existing | building | 45,845 | 28% | 0.3 | 8 | \$3,237 | 13% | 1.2 |
| DLC | Time Clock Control | Lighting w/ No Controls | Education | Other Int. Lighting | New | building | 45,845 | 4.1% | 0.04 | 8 | \$3,237 | 0% | 0.2 |
| DLC | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Education | Plug Load | Existing | building | 5,331 | 46% | 0.5 | 5 | \$189 | 4% | 3.3 |
| DLC | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Education | Plug Load | New | building | 5,331 | 46% | 0.5 | 5 | \$189 | 4% | 3.3 |
| DLC | Data Center - Server/Storage Consolidation | No Consolidation | Education | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| DLC | Data Center - Server/Storage Consolidation | No Consolidation | Education | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| DLC | Data Center - Server/Storage Virtualization | No Virtualization | Education | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| DLC | Data Center - Server/Storage Virtualization | No Virtualization | Education | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| DLC | Energy Star - Scanners | Std Scanner | Education | Plug Load | New | measure | 68 | 3.9% | 0.04 | 4 | \$777 | 7% | 0.0 |
| DLC | Energy Star - Scanners | Std Scanner | Education | Plug Load | ROB | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| DLC | Energy Star Dishwasher | Existing Dishwasher units | Education | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,580 | 6% | 1.1 |
| DLC | Energy Star Dishwasher | Standard Dishwasher unit | Education | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 6% | 3.5 |
| DLC | Energy Star Dishwasher | Standard Dishwasher unit | Education | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 6% | 3.5 |
| DLC | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Education | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 17% | 0.2 |
| DLC | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Education | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.1 |
| DLC | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Education | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.1 |
| DLC | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Education | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 9% | 0.7 |
| DLC | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Education | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.5 |
| DLC | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Education | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.5 |
| DLC | ENERGY STAR® Copiers | 10% Less Efficient Copier | Education | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 18% | 0.0 |
| DLC | ENERGY STAR® Copiers | One Conventional Copier | Education | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| DLC | ENERGY STAR® Copiers | One Conventional Copier | Education | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| DLC | ENERGY STAR® desktop | Standard computer | Education | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 69% | 0.1 |
| DLC | ENERGY STAR® desktop | Standard computer | Education | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.1 |
| DLC | ENERGY STAR® desktop | Standard computer | Education | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.1 |
| DLC | ENERGY STAR® Fax | 10% Less Efficient Fax | Education | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 15% | 0.0 |
| DLC | ENERGY STAR® Fax | One Conventional Fax | Education | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.1 |
| DLC | ENERGY STAR® Fax | One Conventional Fax | Education | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.1 |
| DLC | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Education | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 70% | 0.0 |
| DLC | ENERGY STAR® Monitors | One Conventional Monitor | Education | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| DLC | ENERGY STAR® Monitors | One Conventional Monitor | Education | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| DLC | ENERGY STAR® Printers | 10% Less Efficient Printer | Education | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 44% | 0.0 |
| DLC | ENERGY STAR® Printers | One Conventional Printer | Education | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| DLC | ENERGY STAR® Printers | One Conventional Printer | Education | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$1,426 | 44% | 0.0 |
| DLC | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Education | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 43% | 0.1 |
| DLC | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Education | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.8 |
| DLC | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Education | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.8 |
| DLC | ENERGY STAR® Televisions | 10% Less Efficient Television | Education | Plug Load | Early | Unit | 185 | 38% | 0.01 | 6 | \$672 | 40% | 0.0 |
| DLC | ENERGY STAR® Televisions | One Conventional Television | Education | Plug Load | New | Unit | 168 | 32% | 0.01 | 6 | \$206 | 40% | 0.1 |
| DLC | ENERGY STAR® Televisions | One Conventional Television | Education | Plug Load | ROB | Unit | 168 | 32% | 0.01 | 6 | \$206 | 40% | 0.1 |
| DLC | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Education | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 24% | 0.3 |
| DLC | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Education | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.7 |
| DLC | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Education | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.7 |
| DLC | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Education | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.3 |
| DLC | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Education | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.3 |
| DLC | Network PC Power Management | No PC Power Management | Education | Plug Load | Existing | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 43.7 |
| DLC | Network PC Power Management | No PC Power Management | Education | Plug Load | New | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 43.7 |
| DLC | Smart Strip Plug Outlets | Standard plug strip/outlet | Education | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.2 |
| DLC | Smart Strip Plug Outlets | Standard plug strip/outlet | Education | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.2 |
| DLC | Smart Strip Plug Outlets | Standard plug strip/outlet | Education | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| DLC | Smart Strip Plug Outlets | Standard plug strip/outlet | Education | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| DLC | Smart Strip Plug Outlets | Standard plug strip/outlet | Education | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| DLC | Smart Strip Plug Outlets | Standard plug strip/outlet | Education | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| DLC | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Education | Plug Load | Existing | building | 5,331 | 46% | 0.5 | 5 | \$180 | 3% | 3.4 |
| DLC | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Education | Plug Load | New | building | 5,331 | 46% | 0.5 | 5 | \$180 | 3% | 3.4 |
| DLC | Air curtain technology | Strip plastic curtain | Education | Refrigeration | New | building | 21,590 | 6.8% | 0.07 | 8 | \$2,608 | 35% | 0.2 |
| DLC | Air curtain technology | Strip plastic curtain | Education | Refrigeration | New | building | 12,394 | 6.8% | 0.07 | 8 | \$2,657 | 35% | 0.1 |
| DLC | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Education | Refrigeration | Existing | building | 4,398 | 0.7% | 0.01 | 12 | \$70 | 11% | 0.3 |
| DLC | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Education | Refrigeration | New | building | 4,398 | 0.7% | 0.01 | 12 | \$70 | 11% | 0.3 |
| DLC | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Education | Refrigeration | Existing | building | 4,398 | 7.0% | 0.07 | 12 | \$70 | 11% | 2.9 |
| DLC | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Education | Refrigeration | New | building | 4,398 | 7.0% | 0.07 | 12 | \$70 | 11% | 2.9 |
| DLC | Auto Closer on Refrigerator Door | Door w/out Autocloser | Education | Refrigeration | Existing | building | 12,394 | 6.4% | 0.06 | 8 | \$698 | 40% | 0.4 |
| DLC | Auto Closer on Refrigerator Door | Door w/out Autocloser | Education | Refrigeration | Existing | building | 21,590 | 2.9% | 0.03 | 8 | \$559 | 40% | 0.4 |
| DLC | Auto Closer on Refrigerator Door | Door w/out Autocloser | Education | Refrigeration | New | building | 12,394 | 6.4% | 0.06 | 8 | \$698 | 40% | 0.4 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|---|-----------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Auto Closer on Refrigerator Door | Door w/out Autocloser | Education | Refrigeration | New | building | 21,590 | 2.9% | 0.03 | 8 | \$559 | 40% | 0.4 |
| DLC | Demand Hot Gas Defrost | Base Refrigeration System | Education | Refrigeration | Existing | measure | 4,398 | 3.0% | 0.03 | 10 | \$1,289 | 0% | 0.1 |
| DLC | Demand Hot Gas Defrost | Base Refrigeration System | Education | Refrigeration | New | measure | 4,398 | 3.0% | 0.03 | 10 | \$1,289 | 0% | 0.1 |
| DLC | Door Gasket- Freezer | Door w/out Gasket | Education | Refrigeration | Existing | building | 12,394 | 3.5% | 0.04 | 4 | \$72 | 29% | 1.0 |
| DLC | Door Gasket- Freezer | Door w/out Gasket | Education | Refrigeration | New | building | 12,394 | 3.7% | 0.04 | 4 | \$72 | 29% | 1.1 |
| DLC | Door Gasket- Refrigerator | Door w/out Gasket | Education | Refrigeration | Existing | building | 21,590 | 0.9% | 0.01 | 4 | \$77 | 45% | 0.4 |
| DLC | Door Gasket- Refrigerator | Door w/out Gasket | Education | Refrigeration | New | building | 21,590 | 0.9% | 0.01 | 4 | \$77 | 45% | 0.4 |
| DLC | Economizer for Walk-in Coolers | No Economizer | Education | Refrigeration | Early | measure | 39,466 | 6.6% | 0.4 | 10 | \$459 | 72% | 2.8 |
| DLC | Economizer for Walk-in Coolers | No Economizer | Education | Refrigeration | Early | measure | 39,466 | 6.6% | 0.4 | 10 | \$459 | 72% | 2.8 |
| DLC | Economizer for Walk-in Coolers | No Economizer | Education | Refrigeration | Early | measure | 39,466 | 6.6% | 0.4 | 10 | \$459 | 72% | 2.8 |
| DLC | Economizer for Walk-in Coolers | No Economizer | Education | Refrigeration | New | measure | 39,466 | 6.6% | 0.4 | 10 | \$54 | 72% | 23.6 |
| DLC | Economizer for Walk-in Coolers | No Economizer | Education | Refrigeration | New | measure | 39,466 | 6.6% | 0.4 | 10 | \$54 | 72% | 23.7 |
| DLC | Economizer for Walk-in Coolers | No Economizer | Education | Refrigeration | New | measure | 39,466 | 6.6% | 0.4 | 10 | \$54 | 72% | 23.7 |
| DLC | Economizer for Walk-in Coolers | No Economizer | Education | Refrigeration | ROB | measure | 39,466 | 6.6% | 0.4 | 10 | \$54 | 72% | 23.6 |
| DLC | Economizer for Walk-in Coolers | No Economizer | Education | Refrigeration | ROB | measure | 39,466 | 6.6% | 0.4 | 10 | \$54 | 72% | 23.7 |
| DLC | Economizer for Walk-in Coolers | No Economizer | Education | Refrigeration | ROB | measure | 39,466 | 6.6% | 0.4 | 10 | \$54 | 72% | 23.7 |
| DLC | eCube | Refrigeration unit w/out eCube | Education | Refrigeration | Existing | building | 21,590 | 15% | 0.2 | 15 | \$1,164 | 57% | 1.8 |
| DLC | eCube | Refrigeration unit w/out eCube | Education | Refrigeration | New | building | 21,590 | 15% | 0.2 | 15 | \$1,164 | 57% | 1.8 |
| DLC | Efficient compressor motor | Base Refrigeration System - Grocery | Education | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.3 |
| DLC | Efficient compressor motor | Base Refrigeration System - Grocery | Education | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.3 |
| DLC | Efficient compressor motor | Base Refrigeration System - Grocery | Education | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.3 |
| DLC | Efficient compressor motor | Base Refrigeration System - Grocery | Education | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.3 |
| DLC | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Education | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.6 |
| DLC | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Education | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| DLC | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Education | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| DLC | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Education | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.3 |
| DLC | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Education | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.8 |
| DLC | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Education | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.8 |
| DLC | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Education | Refrigeration | Existing | building | 21,590 | 1.3% | 0.01 | 10 | \$369 | 77% | 0.3 |
| DLC | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Education | Refrigeration | New | building | 21,590 | 1.3% | 0.01 | 10 | \$369 | 77% | 0.3 |
| DLC | Floating head pressure controller | System w/out FHPC | Education | Refrigeration | Existing | building | 12,394 | 1.9% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| DLC | Floating head pressure controller | System w/out FHPC | Education | Refrigeration | Existing | building | 4,398 | 2.1% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| DLC | Floating head pressure controller | System w/out FHPC | Education | Refrigeration | Existing | building | 21,590 | 0.4% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| DLC | Floating head pressure controller | System w/out FHPC | Education | Refrigeration | New | building | 12,394 | 1.9% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| DLC | Floating head pressure controller | System w/out FHPC | Education | Refrigeration | New | building | 4,398 | 2.1% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| DLC | Floating head pressure controller | System w/out FHPC | Education | Refrigeration | New | building | 21,590 | 0.4% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| DLC | High Efficiency Commercial Freezer | Std. Commercial Freezer | Education | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 86% | 0.4 |
| DLC | High Efficiency Commercial Freezer | Std. Commercial Freezer | Education | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 4.4 |
| DLC | High Efficiency Commercial Freezer | Std. Commercial Freezer | Education | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 4.4 |
| DLC | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Education | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 21% | 0.1 |
| DLC | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Education | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$406 | 21% | 1.0 |
| DLC | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Education | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$406 | 21% | 1.0 |
| DLC | High Efficiency Ice Maker | Exisiting Standard Efficiency Ice Maker in Pennsylvania | Education | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 73% | 0.2 |
| DLC | High Efficiency Ice Maker | Standard code minimum Ice Maker | Education | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| DLC | High Efficiency Ice Maker | Standard code minimum Ice Maker | Education | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| DLC | High Efficiency Ice Making Head | Standard Ice Making Head | Education | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 4.1 |
| DLC | High Efficiency Ice Making Head | Standard Ice Making Head | Education | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 4.1 |
| DLC | High R-Value Glass Doors | Base Refrigeration System - Grocery | Education | Refrigeration | Existing | building | 4,398 | 0.7% | 0.01 | 10 | \$57 | 0% | 0.3 |
| DLC | High R-Value Glass Doors | Base Refrigeration System - Grocery | Education | Refrigeration | New | building | 4,398 | 0.7% | 0.01 | 10 | \$57 | 0% | 0.3 |
| DLC | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Education | Refrigeration | Early | Fixture | 373 | 56% | 0.02 | 8 | \$448 | 66% | 0.2 |
| DLC | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Education | Refrigeration | New | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 66% | 0.3 |
| DLC | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Education | Refrigeration | ROB | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 66% | 0.3 |
| DLC | No-heat glass doors | Standard low-temp reach-in | Education | Refrigeration | Existing | building | 4,398 | 20% | 0.2 | 10 | \$5,219 | 8% | 0.1 |
| DLC | No-heat glass doors | Standard low-temp reach-in | Education | Refrigeration | New | building | 4,398 | 20% | 0.2 | 10 | \$5,219 | 8% | 0.1 |
| DLC | Quick acting freezer doors | Std. Freezer Doors | Education | Refrigeration | Existing | building | 12,394 | 13% | 0.1 | 10 | \$3,205 | 56% | 0.2 |
| DLC | Quick acting freezer doors | Std. Freezer Doors | Education | Refrigeration | New | building | 12,394 | 13% | 0.1 | 10 | \$3,205 | 56% | 0.2 |
| DLC | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Education | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 30% | 0.5 |
| DLC | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Education | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.8 |
| DLC | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Education | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.8 |
| DLC | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 30% | 1.8 |
| DLC | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 3.3 |
| DLC | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 3.3 |
| DLC | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 30% | 1.9 |
| DLC | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 4.4 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|--|-----------|-----------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 4.4 |
| DLC | Refrigeration Commissioning | Non-commissioned refrigeration system | Education | Refrigeration | Existing | building | 39,981 | 9.5% | 0.10 | 3 | \$8,955 | 85% | 0.0 |
| DLC | Refrigeration Commissioning | Non-commissioned refrigeration system | Education | Refrigeration | New | building | 39,981 | 9.5% | 0.10 | 3 | \$8,955 | 85% | 0.0 |
| DLC | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Education | Refrigeration | Existing | building | 12,394 | 8.2% | 0.08 | 4 | \$87 | 22% | 2.0 |
| DLC | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Education | Refrigeration | Existing | building | 21,590 | 1.3% | 0.01 | 4 | \$94 | 22% | 0.5 |
| DLC | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Education | Refrigeration | New | building | 12,394 | 8.2% | 0.08 | 4 | \$87 | 22% | 2.0 |
| DLC | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Education | Refrigeration | New | building | 21,590 | 1.3% | 0.01 | 4 | \$94 | 22% | 0.5 |
| DLC | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Education | Refrigeration | Existing | building | 12,394 | 1.9% | 0.02 | 11 | \$148 | 79% | 0.8 |
| DLC | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Education | Refrigeration | New | building | 12,394 | 1.9% | 0.02 | 11 | \$148 | 79% | 0.8 |
| DLC | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Education | Refrigeration | Existing | building | 21,590 | 1.4% | 0.01 | 11 | \$148 | 79% | 1.0 |
| DLC | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Education | Refrigeration | New | building | 21,590 | 1.4% | 0.01 | 11 | \$148 | 79% | 1.0 |
| DLC | Vertical Night Covers | Display cases w/out night covers-High Temperature | Education | Refrigeration | Existing | building | 4,398 | 0.2% | 0.00 | 5 | \$66 | 9% | 0.0 |
| DLC | Vertical Night Covers | Display cases w/out night covers-High Temperature | Education | Refrigeration | New | building | 4,398 | 0.2% | 0.00 | 5 | \$66 | 9% | 0.0 |
| DLC | VSD Controlled Compressor | Compressor w/out VSD | Education | Refrigeration | Early | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 63% | 0.2 |
| DLC | VSD Controlled Compressor | Compressor w/out VSD | Education | Refrigeration | New | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 63% | 0.2 |
| DLC | VSD Controlled Compressor | Compressor w/out VSD | Education | Refrigeration | ROB | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 63% | 0.2 |
| DLC | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Education | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$268 | 35% | 1.0 |
| DLC | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Education | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$268 | 35% | 1.0 |
| DLC | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Education | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.5 |
| DLC | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Education | Refrigeration | New | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 3.3 |
| DLC | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Education | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.5 |
| DLC | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Education | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 3.3 |
| DLC | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 35% | 2.7 |
| DLC | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 35% | 2.5 |
| DLC | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 5.7 |
| DLC | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 5.4 |
| DLC | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 5.7 |
| DLC | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 5.4 |
| DLC | Adding reflective roof treatment | Std color roof | Education | Space Heating | Existing | building | 31,675 | 7.1% | 0.07 | 6 | \$19,275 | 82% | 0.0 |
| DLC | Adding reflective roof treatment | Std color roof | Education | Space Heating | New | building | 31,675 | 7.1% | 0.07 | 6 | \$19,275 | 82% | 0.0 |
| DLC | Adding window shade film | No shade film | Education | Space Heating | Existing | building | 31,675 | 1.3% | 0.4 | 10 | \$385 | 13% | 1.1 |
| DLC | Adding window shade film | No shade film | Education | Space Heating | New | building | 31,675 | 1.3% | 0.4 | 10 | \$385 | 13% | 1.1 |
| DLC | Adding window shade screen | No shade screen | Education | Space Heating | Existing | building | 31,675 | 1.1% | 0.01 | 10 | \$149 | 13% | 1.0 |
| DLC | Adding window shade screen | No shade screen | Education | Space Heating | New | building | 31,675 | 1.1% | 0.01 | 10 | \$149 | 13% | 1.0 |
| DLC | Automated control system | Manual Controls | Education | Space Heating | Existing | building | 31,675 | 17% | 0.2 | 15 | \$34,676 | 51% | 0.1 |
| DLC | Automated control system | Manual Controls | Education | Space Heating | New | building | 31,675 | 17% | 0.2 | 15 | \$34,676 | 94% | 0.1 |
| DLC | Ceiling Insulations (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Education | Space Heating | Existing | building | 31,675 | 1.6% | 0.02 | 15 | \$26,439 | 71% | 0.0 |
| DLC | Ceiling Insulations (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Education | Space Heating | New | building | 31,675 | 0.5% | 0.01 | 15 | \$25,131 | 94% | 0.0 |
| DLC | Duct Insulation, Add R8 | No Insulation | Education | Space Heating | Existing | building | 31,675 | 1.4% | 0.04 | 15 | \$252 | 20% | 1.2 |
| DLC | Duct Insulation, Add R8 | No Insulation | Education | Space Heating | New | building | 31,675 | 1.4% | 0.04 | 15 | \$252 | 10% | 1.2 |
| DLC | Efficient Unit Heating System | Existing Unit Heaters in PA | Education | Space Heating | Early | heater | 20,342 | 23% | 0.03 | 15 | \$3,289 | 83% | 0.9 |
| DLC | Efficient Unit Heating System | Std. Unit Heater | Education | Space Heating | New | heater | 18,054 | 13% | 0.02 | 15 | \$1,991 | 83% | 0.7 |
| DLC | Efficient Unit Heating System | Std. Unit Heater | Education | Space Heating | ROB | heater | 18,054 | 13% | 0.02 | 15 | \$1,991 | 83% | 0.7 |
| DLC | Facility Commissioning | No Facility Commissioning | Education | Space Heating | New | building | 31,675 | 16% | 0.2 | 10 | \$5,234 | 89% | 0.4 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Education | Space Heating | Existing | building | 31,675 | 7.1% | 0.07 | 15 | \$140,502 | 25% | 0.0 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Education | Space Heating | New | building | 31,675 | 7.1% | 0.07 | 15 | \$140,502 | 35% | 0.0 |
| DLC | Hi Eff HVAC System Design | No HVAC Design | Education | Space Heating | New | building | 31,675 | 14% | 0.1 | 10 | \$77,679 | 51% | 0.0 |
| DLC | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Education | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 1.1 |
| DLC | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Education | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 1.1 |
| DLC | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Education | Space Heating | Existing | building | 31,675 | 3.5% | 0.04 | 10 | \$7,735 | 81% | 0.1 |
| DLC | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Education | Space Heating | New | building | 31,675 | 3.5% | 0.04 | 10 | \$7,735 | 81% | 0.1 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Education | Space Heating | Existing | building | 31,675 | 3.6% | 0.04 | 11 | \$286 | 49% | 1.8 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Education | Space Heating | New | building | 31,675 | 3.1% | 0.03 | 11 | \$146 | 49% | 3.1 |
| DLC | Re-Commissioning (Existing Construction) | No Re-Commissioning | Education | Space Heating | Existing | building | 31,675 | 16% | 0.2 | 5 | \$9,680 | 86% | 0.1 |
| DLC | VFD on Cooling Tower Fan | Motor w/out VFD | Education | Space Heating | Early | motor | 37,199 | 70% | 3.4 | 15 | \$2,843 | 88% | 6.7 |
| DLC | VFD on Cooling Tower Fan | Motor w/out VFD | Education | Space Heating | New | motor | 36,503 | 72% | 3.3 | 15 | \$2,843 | 88% | 6.6 |
| DLC | VFD on Cooling Tower Fan | Motor w/out VFD | Education | Space Heating | ROB | motor | 36,503 | 72% | 3.3 | 15 | \$2,843 | 88% | 6.6 |
| DLC | Wall Insulations (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Education | Space Heating | Existing | building | 31,675 | 3.6% | 0.04 | 15 | \$6,377 | 26% | 0.1 |
| DLC | Wall Insulations (Going upto R 21) | Code minimum Wall Insulations | Education | Space Heating | New | building | 31,675 | 0.1% | 0.00 | 15 | \$4,891 | 94% | 0.0 |
| DLC | 80W Induction Street Lighting | One 100W HPS Street Light Fixture | Education | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 0% | 0.3 |
| DLC | 80W Induction Street Lighting | One 100W HPS Street Light Fixture | Education | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.9 |
| DLC | 80W Induction Street Lighting | One 100W HPS Street Light Fixture | Education | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.9 |
| DLC | Green LED Traffic Light | Green Incandescent Traffic Light | Education | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 0% | 1.3 |
| DLC | Green LED Traffic Light | Green Incandescent Traffic Light | Education | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|---|-----------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Green LED Traffic Light | Green Incandescent Traffic Light | Education | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.2 |
| DLC | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Education | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 0% | 3.1 |
| DLC | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Education | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| DLC | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Education | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| DLC | LED Street Lighting (67W) | One 100W HPS Street Light | Education | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 0% | 0.2 |
| DLC | LED Street Lighting (67W) | One 100W HPS Street Light | Education | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.4 |
| DLC | LED Street Lighting (67W) | One 100W HPS Street Light | Education | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.4 |
| DLC | Red LED Traffic Light | One Red Incandescent Traffic Light | Education | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 0% | 1.7 |
| DLC | Red LED Traffic Light | One Red Incandescent Traffic Light | Education | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| DLC | Red LED Traffic Light | One Red Incandescent Traffic Light | Education | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| DLC | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Education | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 0% | 0.1 |
| DLC | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Education | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| DLC | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Education | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| DLC | Demand controlled Circulating Systems | Constant circulation system | Education | Water Heating | Existing | building | 29,764 | 20% | 0.2 | 15 | \$5,401 | 59% | 0.7 |
| DLC | Demand controlled Circulating Systems | Constant circulation system | Education | Water Heating | New | building | 29,764 | 20% | 0.2 | 15 | \$7,254 | 59% | 0.5 |
| DLC | Drainwater Heat Recovery Water Heater | No heat recovery | Education | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 2.1 |
| DLC | Drainwater Heat Recovery Water Heater | No heat recovery | Education | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 2.1 |
| DLC | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Education | Water Heating | Existing | building | 29,764 | 5.9% | 0.06 | 12 | \$210 | 85% | 4.3 |
| DLC | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Education | Water Heating | New | building | 29,764 | 5.9% | 0.06 | 12 | \$60 | 85% | 15.0 |
| DLC | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Education | Water Heating | Early | water heater | 46,899 | 66% | 5.5 | 10 | \$2,375 | 68% | 6.7 |
| DLC | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Education | Water Heating | Early | water heater | 46,899 | 66% | 5.5 | 10 | \$2,375 | 68% | 6.7 |
| DLC | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Education | Water Heating | New | water heater | 46,899 | 66% | 5.5 | 10 | \$2,375 | 68% | 6.7 |
| DLC | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Education | Water Heating | New | water heater | 46,899 | 66% | 5.5 | 10 | \$2,375 | 68% | 6.7 |
| DLC | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Education | Water Heating | ROB | water heater | 45,596 | 65% | 5.3 | 10 | \$2,375 | 68% | 6.5 |
| DLC | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Education | Water Heating | ROB | water heater | 45,596 | 65% | 5.3 | 10 | \$2,375 | 68% | 6.5 |
| DLC | Heat Recovery Unit | Base Water Heating | Education | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.8 |
| DLC | Heat Recovery Unit | Base Water Heating | Education | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.8 |
| DLC | Heat Trap | No Heat Trap | Education | Water Heating | Existing | building | 29,764 | 22% | 0.2 | 11 | \$203 | 50% | 15.2 |
| DLC | Heat Trap | No Heat Trap | Education | Water Heating | New | building | 29,764 | 22% | 0.2 | 11 | \$30 | 50% | 102.2 |
| DLC | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Education | Water Heating | Early | water heater | 46,899 | 5.9% | 0.5 | 15 | \$614 | 79% | 3.5 |
| DLC | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Education | Water Heating | Early | water heater | 46,899 | 5.9% | 0.5 | 15 | \$614 | 79% | 3.5 |
| DLC | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Education | Water Heating | New | water heater | 45,596 | 3.2% | 0.3 | 15 | \$614 | 79% | 1.9 |
| DLC | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Education | Water Heating | New | water heater | 45,596 | 3.2% | 0.3 | 15 | \$614 | 79% | 1.9 |
| DLC | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Education | Water Heating | ROB | water heater | 45,596 | 3.2% | 0.3 | 15 | \$614 | 79% | 1.9 |
| DLC | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Education | Water Heating | ROB | water heater | 45,596 | 3.2% | 0.3 | 15 | \$614 | 79% | 1.9 |
| DLC | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Education | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$466 | 81% | 43.7 |
| DLC | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Education | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 22.8 |
| DLC | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Education | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 22.8 |
| DLC | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Education | Water Heating | Existing | building | 29,764 | 0.4% | 0.00 | 13 | \$16 | 68% | 4.2 |
| DLC | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Education | Water Heating | New | building | 29,764 | 0.4% | 0.00 | 13 | \$16 | 0% | 4.3 |
| DLC | Hot Water Circulation Pump Time-Clock | Constant circulation system | Education | Water Heating | Existing | building | 29,764 | 5.3% | 0.05 | 10 | \$120 | 72% | 5.5 |
| DLC | Hot Water Circulation Pump Time-Clock | Constant circulation system | Education | Water Heating | New | building | 29,764 | 5.3% | 0.05 | 10 | \$120 | 72% | 5.5 |
| DLC | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Education | Water Heating | Existing | building | 29,764 | 0.2% | 0.00 | 7 | \$22 | 78% | 0.8 |
| DLC | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Education | Water Heating | New | building | 29,764 | 0.2% | 0.00 | 7 | \$0.5 | 78% | 33.2 |
| DLC | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Education | Water Heating | Existing | building | 29,764 | 0.6% | 0.01 | 5 | \$300 | 20% | 0.1 |
| DLC | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Education | Water Heating | New | building | 29,764 | 0.4% | 0.00 | 5 | \$194 | 20% | 0.1 |
| DLC | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Education | Water Heating | Existing | building | 29,764 | 6.5% | 0.07 | 9 | \$200 | 2% | 3.6 |
| DLC | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Education | Water Heating | New | building | 29,764 | 6.5% | 0.07 | 9 | \$48 | 2% | 14.8 |
| DLC | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Education | Water Heating | Early | water heater | 46,899 | 52% | 2.0 | 15 | \$12,444 | 32% | 1.4 |
| DLC | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Education | Water Heating | New | water heater | 45,596 | 51% | 1.9 | 15 | \$12,444 | 32% | 1.3 |
| DLC | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Education | Water Heating | ROB | water heater | 45,596 | 51% | 1.9 | 15 | \$12,444 | 32% | 1.3 |
| DLC | Ultrasonic Faucet Control | Manual Faucet Control | Education | Water Heating | Existing | building | 29,764 | 3.0% | 0.03 | 10 | \$5,147 | 77% | 0.1 |
| DLC | Ultrasonic Faucet Control | Manual Faucet Control | Education | Water Heating | New | building | 29,764 | 3.0% | 0.03 | 10 | \$5,147 | 77% | 0.1 |
| DLC | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Education | Water Heating | Existing | building | 29,764 | 2.2% | 0.02 | 4 | \$28 | 83% | 3.8 |
| DLC | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Education | Water Heating | New | building | 29,764 | 2.3% | 0.02 | 4 | \$28 | 83% | 3.9 |
| DLC | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Gov't | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.2 |
| DLC | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Gov't | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.2 |
| DLC | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Gov't | Cooking | Early | steamer | 51 | 46% | 0.00 | 12 | \$5,053 | 81% | 0.0 |
| DLC | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Gov't | Cooking | New | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| DLC | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Gov't | Cooking | ROB | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| DLC | Electric combination oven (Energy Star) | Standard Oven | Gov't | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 3.3 |
| DLC | Electric combination oven (Energy Star) | Standard Oven | Gov't | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 3.3 |
| DLC | Electric Convection Oven ENERTY STAR (74% Eff) | Conventional convection oven w/ 65% efficiency | Gov't | Cooking | Early | oven | 8,641 | 37% | 0.6 | 12 | \$4,119 | 81% | 0.5 |
| DLC | Electric Convection Oven ENERTY STAR (74% Eff) | Conventional convection oven w/ 70% efficiency | Gov't | Cooking | New | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.8 |
| DLC | Electric Convection Oven ENERTY STAR (74% Eff) | Conventional convection oven w/ 70% efficiency | Gov't | Cooking | ROB | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.8 |
| DLC | High Efficiency Fryer (ENERGY STAR 84% Eff) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Gov't | Cooking | Early | fryer | 6,105 | 23% | 0.3 | 12 | \$9,241 | 86% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|---|---------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | High Efficiency Fryer (ENERGY STAR 84% Eff) | Standard Electric Fryer meeting Code Minimum | Gov't | Cooking | New | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.4 |
| DLC | High Efficiency Fryer (ENERGY STAR 84% Eff) | Standard Electric Fryer meeting Code Minimum | Gov't | Cooking | ROB | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.4 |
| DLC | High Efficiency Griddle (ENERGY STAR 75% Eff) | Efficiency code minimum griddle (70% eff) | Gov't | Cooking | Early | griddle | 11,317 | 65% | 1.4 | 12 | \$4,977 | 86% | 1.0 |
| DLC | High Efficiency Griddle (ENERGY STAR 75% Eff) | Conventional Griddle w/ 60% efficiency | Gov't | Cooking | New | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.3 |
| DLC | High Efficiency Griddle (ENERGY STAR 75% Eff) | Conventional Griddle w/ 60% efficiency | Gov't | Cooking | ROB | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.3 |
| DLC | High Efficiency Induction Cooking | Standard Cooking | Gov't | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.2 |
| DLC | High Efficiency Induction Cooking | Standard Cooking | Gov't | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.2 |
| DLC | Active chilled beam cooling | No Active Chilled beam cooling | Gov't | Cooling Central | New | building | 2,792 | 5.3% | 0.05 | 15 | \$730 | 72% | 0.2 |
| DLC | Adding reflective roof treatment | Std color roof | Gov't | Cooling Central | Existing | building | 2,939 | 7.0% | 0.07 | 6 | \$12,489 | 82% | 0.0 |
| DLC | Adding reflective roof treatment | Std color roof | Gov't | Cooling Central | New | building | 2,939 | 7.0% | 0.07 | 6 | \$12,489 | 82% | 0.0 |
| DLC | Adding window shade film | No shade film | Gov't | Cooling Central | Existing | building | 2,939 | 1.3% | 0.4 | 10 | \$36 | 12% | 7.7 |
| DLC | Adding window shade film | No shade film | Gov't | Cooling Central | New | building | 2,939 | 1.3% | 0.4 | 10 | \$36 | 13% | 7.7 |
| DLC | Adding window shade screen | No shade screen | Gov't | Cooling Central | Existing | building | 2,939 | 1.1% | 0.01 | 10 | \$14 | 13% | 1.4 |
| DLC | Adding window shade screen | No shade screen | Gov't | Cooling Central | New | building | 2,939 | 1.0% | 0.01 | 10 | \$14 | 13% | 1.4 |
| DLC | Automated control system | Manual Controls | Gov't | Cooling Central | Existing | building | 2,939 | 17% | 0.2 | 15 | \$3,218 | 51% | 0.1 |
| DLC | Automated control system | Manual Controls | Gov't | Cooling Central | New | building | 2,939 | 17% | 0.2 | 15 | \$3,218 | 94% | 0.1 |
| DLC | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Gov't | Cooling Central | Existing | building | 2,939 | 3.4% | 0.03 | 15 | \$17,130 | 71% | 0.0 |
| DLC | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Gov't | Cooling Central | New | building | 2,939 | 1.1% | 0.01 | 15 | \$16,283 | 94% | 0.0 |
| DLC | Chilled Water Reset, Optimizer System for Chiller(s) | No Chilled Water Reset | Gov't | Cooling Central | Existing | building | 2,939 | 3.7% | 0.04 | 10 | \$13 | 69% | 5.2 |
| DLC | Chiller Tune Up Diagnostics | No Chiller Tune Up | Gov't | Cooling Central | Existing | building | 2,939 | 2.3% | 0.02 | 10 | \$2.9 | 59% | 14.5 |
| DLC | Chiller Tuneup/Diagnostics | No tuneup | Gov't | Cooling Central | Existing | building | 2,939 | 8.0% | 0.08 | 10 | \$7,505 | 59% | 0.0 |
| DLC | Chiller Tuneup/Diagnostics | No tuneup | Gov't | Cooling Central | New | building | 2,939 | 8.0% | 0.08 | 10 | \$7,505 | 59% | 0.0 |
| DLC | Cooling Tower Optimization | No Cooling Tower Optimization | Gov't | Cooling Central | Existing | building | 2,939 | 4.9% | 0.05 | 10 | \$13 | 73% | 6.9 |
| DLC | Duct Insulation, Add R8 | No Insulation | Gov't | Cooling Central | Existing | building | 2,939 | 1.4% | 0.04 | 15 | \$23 | 20% | 2.7 |
| DLC | Duct Insulation, Add R8 | No Insulation | Gov't | Cooling Central | New | building | 2,939 | 1.4% | 0.04 | 15 | \$23 | 10% | 2.7 |
| DLC | Facility Commissioning | No Facility Commissioning | Gov't | Cooling Central | New | building | 2,939 | 16% | 0.2 | 10 | \$140,280 | 89% | 0.0 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Gov't | Cooling Central | Existing | building | 2,939 | 7.0% | 0.07 | 15 | \$13,038 | 25% | 0.0 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Gov't | Cooling Central | New | building | 2,939 | 7.0% | 0.07 | 15 | \$13,038 | 35% | 0.0 |
| DLC | Hi Eff HVAC System Design | No HVAC Design | Gov't | Cooling Central | New | building | 2,939 | 7.3% | 0.07 | 10 | \$1,032,796 | 51% | 0.0 |
| DLC | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Gov't | Cooling Central | Early | ton | 5,094 | 24% | 0.4 | 15 | \$108,550 | 88% | 0.0 |
| DLC | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Gov't | Cooling Central | New | ton | 4,164 | 6.7% | 0.10 | 15 | \$12,927 | 88% | 0.0 |
| DLC | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Gov't | Cooling Central | ROB | ton | 4,164 | 6.7% | 0.10 | 15 | \$12,927 | 88% | 0.0 |
| DLC | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Gov't | Cooling Central | Early | ton | 7,611 | 23% | 0.6 | 15 | \$140,105 | 88% | 0.0 |
| DLC | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Gov't | Cooling Central | New | ton | 6,124 | 4.8% | 0.1 | 15 | \$9,336 | 88% | 0.0 |
| DLC | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Gov't | Cooling Central | ROB | ton | 6,124 | 4.8% | 0.1 | 15 | \$9,336 | 88% | 0.0 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Gov't | Cooling Central | Early | ton | 62,308 | 26% | 5.6 | 15 | \$105,354 | 88% | 0.1 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Gov't | Cooling Central | New | ton | 54,288 | 15% | 2.8 | 15 | \$30,530 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Gov't | Cooling Central | ROB | ton | 54,288 | 15% | 2.8 | 15 | \$30,530 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Gov't | Cooling Central | Early | ton | 93,320 | 23% | 7.4 | 15 | \$154,107 | 88% | 0.1 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Gov't | Cooling Central | New | ton | 85,726 | 16% | 4.8 | 15 | \$27,646 | 88% | 0.5 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Gov't | Cooling Central | ROB | ton | 93,320 | 23% | 7.4 | 15 | \$27,646 | 88% | 0.7 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Gov't | Cooling Central | Early | ton | 154,988 | 23% | 12.2 | 15 | \$302,924 | 88% | 0.1 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Gov't | Cooling Central | New | ton | 140,275 | 14% | 7.0 | 15 | \$115,432 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Gov't | Cooling Central | ROB | ton | 154,988 | 23% | 12.2 | 15 | \$115,432 | 88% | 0.3 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Gov't | Cooling Central | Early | ton | 185,985 | 23% | 14.6 | 15 | \$350,154 | 88% | 0.1 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Gov't | Cooling Central | New | ton | 168,330 | 14% | 8.5 | 15 | \$120,406 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Gov't | Cooling Central | ROB | ton | 185,985 | 23% | 14.6 | 15 | \$120,406 | 88% | 0.3 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Gov't | Cooling Central | Early | ton | 41,225 | 29% | 4.2 | 15 | \$83,632 | 88% | 0.1 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Gov't | Cooling Central | New | ton | 32,011 | 8.9% | 1.0 | 15 | \$40,211 | 88% | 0.1 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Gov't | Cooling Central | ROB | ton | 41,225 | 29% | 4.2 | 15 | \$40,211 | 88% | 0.3 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Gov't | Cooling Central | Early | ton | 70,835 | 35% | 8.6 | 15 | \$132,173 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Gov't | Cooling Central | New | ton | 52,831 | 13% | 2.3 | 15 | \$39,556 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Gov't | Cooling Central | ROB | ton | 52,831 | 13% | 2.3 | 15 | \$39,556 | 88% | 0.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|---|---------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Gov't | Cooling Central | Early | ton | 118,265 | 39% | 16.1 | 15 | \$187,029 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Gov't | Cooling Central | New | ton | 84,321 | 15% | 4.3 | 15 | \$33,554 | 88% | 0.3 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Gov't | Cooling Central | ROB | ton | 118,265 | 39% | 16.1 | 15 | \$33,554 | 88% | 1.3 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Gov't | Cooling Central | Early | ton | 20,695 | 30% | 2.1 | 15 | \$32,398 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Gov't | Cooling Central | New | ton | 16,396 | 11% | 0.6 | 15 | \$7,188 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Gov't | Cooling Central | ROB | ton | 20,695 | 30% | 2.1 | 15 | \$7,188 | 88% | 0.8 |
| DLC | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Gov't | Cooling Central | Existing | building | 2,939 | 1.0% | 0.01 | 10 | \$41,268 | 81% | 0.0 |
| DLC | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Gov't | Cooling Central | New | building | 2,939 | 1.0% | 0.01 | 10 | \$41,268 | 81% | 0.0 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Gov't | Cooling Central | Existing | building | 2,939 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.1 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Gov't | Cooling Central | New | building | 2,939 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.2 |
| DLC | Re-Commissioning (Existing Construction) | No Re-Commissioning | Gov't | Cooling Central | Existing | building | 2,939 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |
| DLC | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Gov't | Cooling Central | Existing | building | 2,939 | 6.0% | 0.06 | 15 | \$3,285 | 26% | 0.1 |
| DLC | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Gov't | Cooling Central | New | building | 2,939 | 0.2% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| DLC | <65k BTU/hr 14 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Gov't | Cooling Unitary | Early | ton | 2,159 | 16% | 0.3 | 15 | \$1,545 | 29% | 0.3 |
| DLC | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Gov't | Cooling Unitary | New | ton | 1,955 | 7.1% | 0.1 | 15 | \$339 | 29% | 0.6 |
| DLC | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Gov't | Cooling Unitary | ROB | ton | 1,955 | 7.1% | 0.1 | 15 | \$339 | 29% | 0.6 |
| DLC | <65k BTU/hr 15 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Gov't | Cooling Unitary | Early | ton | 2,159 | 22% | 0.4 | 15 | \$1,821 | 30% | 0.3 |
| DLC | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Gov't | Cooling Unitary | New | ton | 1,955 | 13% | 0.2 | 15 | \$714 | 30% | 0.5 |
| DLC | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Gov't | Cooling Unitary | ROB | ton | 1,955 | 13% | 0.2 | 15 | \$714 | 30% | 0.5 |
| DLC | <65k BTU/hr 16 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Gov't | Cooling Unitary | Early | ton | 2,159 | 26% | 0.5 | 15 | \$2,098 | 31% | 0.4 |
| DLC | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Gov't | Cooling Unitary | New | ton | 1,955 | 19% | 0.3 | 15 | \$1,089 | 31% | 0.5 |
| DLC | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Gov't | Cooling Unitary | ROB | ton | 1,955 | 19% | 0.3 | 15 | \$1,089 | 31% | 0.5 |
| DLC | >760k min 10.2 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Gov't | Cooling Unitary | Early | ton | 54,615 | 3.7% | 1.6 | 15 | \$68,066 | 56% | 0.0 |
| DLC | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Gov't | Cooling Unitary | New | ton | 55,315 | 4.9% | 2.2 | 15 | \$6,231 | 56% | 0.6 |
| DLC | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Gov't | Cooling Unitary | ROB | ton | 55,315 | 4.9% | 2.2 | 15 | \$6,231 | 56% | 0.6 |
| DLC | 135-240k min 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Gov't | Cooling Unitary | Early | ton | 13,438 | 18% | 1.9 | 15 | \$18,135 | 79% | 0.2 |
| DLC | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Gov't | Cooling Unitary | New | ton | 12,224 | 10.0% | 1.0 | 15 | \$1,948 | 79% | 0.9 |
| DLC | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Gov't | Cooling Unitary | ROB | ton | 12,224 | 10.0% | 1.0 | 15 | \$1,948 | 79% | 0.9 |
| DLC | 240k-760k min 11 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Gov't | Cooling Unitary | Early | ton | 35,931 | 9.0% | 2.6 | 15 | \$44,809 | 66% | 0.1 |
| DLC | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Gov't | Cooling Unitary | New | ton | 36,020 | 9.3% | 2.6 | 15 | \$4,813 | 66% | 0.9 |
| DLC | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Gov't | Cooling Unitary | ROB | ton | 36,020 | 9.3% | 2.6 | 15 | \$4,813 | 66% | 0.9 |
| DLC | 65k-135k BTU/hr 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Gov't | Cooling Unitary | Early | ton | 7,922 | 17% | 1.1 | 15 | \$10,946 | 86% | 0.2 |
| DLC | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Gov't | Cooling Unitary | New | ton | 7,060 | 6.7% | 0.4 | 15 | \$1,392 | 86% | 0.5 |
| DLC | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Gov't | Cooling Unitary | ROB | ton | 7,060 | 6.7% | 0.4 | 15 | \$1,392 | 86% | 0.5 |
| DLC | Adding reflective roof treatment | Std color roof | Gov't | Cooling Unitary | Existing | building | 43,633 | 7.1% | 0.07 | 6 | \$12,489 | 82% | 0.1 |
| DLC | Adding reflective roof treatment | Std color roof | Gov't | Cooling Unitary | New | building | 43,633 | 7.1% | 0.07 | 6 | \$12,489 | 82% | 0.1 |
| DLC | Adding window shade film | No shade film | Gov't | Cooling Unitary | Existing | building | 43,633 | 1.3% | 0.4 | 10 | \$531 | 12% | 0.9 |
| DLC | Adding window shade film | No shade film | Gov't | Cooling Unitary | New | building | 43,633 | 1.3% | 0.4 | 10 | \$531 | 13% | 0.9 |
| DLC | Adding window shade screen | No shade screen | Gov't | Cooling Unitary | Existing | building | 43,633 | 1.1% | 0.01 | 10 | \$205 | 12% | 0.9 |
| DLC | Adding window shade screen | No shade screen | Gov't | Cooling Unitary | New | building | 43,633 | 1.1% | 0.01 | 10 | \$205 | 13% | 0.9 |
| DLC | Automated control system | Manual Controls | Gov't | Cooling Unitary | Existing | building | 43,633 | 17% | 0.2 | 15 | \$47,768 | 51% | 0.1 |
| DLC | Automated control system | Manual Controls | Gov't | Cooling Unitary | New | building | 43,633 | 17% | 0.2 | 15 | \$47,768 | 94% | 0.1 |
| DLC | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Gov't | Cooling Unitary | Existing | building | 43,633 | 3.4% | 0.03 | 15 | \$17,130 | 71% | 0.1 |
| DLC | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Gov't | Cooling Unitary | New | building | 43,633 | 1.1% | 0.01 | 15 | \$16,283 | 94% | 0.0 |
| DLC | Duct Insulation, Add R8 | No Insulation | Gov't | Cooling Unitary | Existing | building | 43,633 | 1.4% | 0.04 | 15 | \$347 | 20% | 1.2 |
| DLC | Duct Insulation, Add R8 | No Insulation | Gov't | Cooling Unitary | New | building | 43,633 | 1.4% | 0.04 | 15 | \$347 | 10% | 1.2 |
| DLC | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Gov't | Cooling Unitary | Existing | building | 23,998 | 13% | 0.1 | 1 | \$230 | 73% | 0.6 |
| DLC | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Gov't | Cooling Unitary | New | building | 23,998 | 13% | 0.1 | 1 | \$230 | 73% | 0.6 |
| DLC | ECM Motors for split systems | Std Shaded Pole Motor | Gov't | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 3.2 |
| DLC | ECM Motors for split systems | Std Shaded Pole Motor | Gov't | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 3.2 |
| DLC | Facility Commissioning | No Facility Commissioning | Gov't | Cooling Unitary | New | building | 43,633 | 16% | 0.2 | 10 | \$1,294 | 89% | 2.2 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Gov't | Cooling Unitary | Existing | building | 43,633 | 7.1% | 0.07 | 15 | \$193,545 | 25% | 0.0 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Gov't | Cooling Unitary | New | building | 43,633 | 7.1% | 0.07 | 15 | \$193,545 | 35% | 0.0 |
| DLC | Hi Eff HVAC System Design | No HVAC Design | Gov't | Cooling Unitary | New | building | 43,633 | 7.3% | 0.07 | 10 | \$13,038 | 51% | 0.1 |
| DLC | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Gov't | Cooling Unitary | Existing | building | 43,633 | 5.0% | 0.05 | 5 | \$225 | 59% | 1.8 |
| DLC | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Gov't | Cooling Unitary | Existing | building | 43,633 | 0.3% | 0.04 | 5 | \$225 | 51% | 0.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|---|---------|-----------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Gov't | Cooling Unitary | New | building | 43,633 | 0.2% | 0.04 | 5 | \$135 | 51% | 0.2 |
| DLC | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Gov't | Cooling Unitary | Existing | building | 43,633 | 1.1% | 0.01 | 10 | \$44,351 | 86% | 0.0 |
| DLC | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Gov't | Cooling Unitary | New | building | 43,633 | 1.1% | 0.01 | 10 | \$44,351 | 86% | 0.0 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) | Gov't | Cooling Unitary | Existing | building | 43,633 | 2.0% | 0.02 | 11 | \$286 | 49% | 1.4 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Gov't | Cooling Unitary | New | building | 43,633 | 1.7% | 0.02 | 11 | \$146 | 49% | 2.4 |
| DLC | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Gov't | Cooling Unitary | Early | unit | 677 | 19% | 0.1 | 15 | \$849 | 85% | 0.2 |
| DLC | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Gov't | Cooling Unitary | New | unit | 683 | 20% | 0.1 | 15 | \$356 | 85% | 0.6 |
| DLC | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Gov't | Cooling Unitary | ROB | unit | 683 | 20% | 0.1 | 15 | \$356 | 85% | 0.6 |
| DLC | Re-Commissioning (Existing Construction) | No Re-Commissioning | Gov't | Cooling Unitary | Existing | building | 43,633 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.2 |
| DLC | Room AC (w/ louvered sides) | Existing efficiency Room AC in Pennsylvania (2000 Federal Standards) | Gov't | Cooling Unitary | Early | ton | 1,087 | 13% | 0.05 | 9 | \$348 | 82% | 0.2 |
| DLC | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Gov't | Cooling Unitary | New | ton | 985 | 4.5% | 0.02 | 9 | \$17 | 82% | 1.5 |
| DLC | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Gov't | Cooling Unitary | ROB | ton | 985 | 4.5% | 0.02 | 9 | \$17 | 82% | 1.5 |
| DLC | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Gov't | Cooling Unitary | Existing | building | 43,633 | 6.0% | 0.06 | 15 | \$3,285 | 26% | 0.5 |
| DLC | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Gov't | Cooling Unitary | New | building | 43,633 | 0.2% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| DLC | 80W Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Gov't | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 80% | 0.2 |
| DLC | 80W Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Gov't | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 80% | 0.2 |
| DLC | 80W Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Gov't | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 80% | 0.2 |
| DLC | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Gov't | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 1.2 |
| DLC | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Gov't | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.7 |
| DLC | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Gov't | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.7 |
| DLC | LED exterior lighting | 250 Watt Incandescent | Gov't | Ext. Lighting | ROB | measure | 282 | 83% | 0.04 | 15 | \$104 | 89% | 1.7 |
| DLC | LED exterior lighting | 250 Watt Incandescent | Gov't | Ext. Lighting | ROB | measure | 282 | 83% | 0.04 | 15 | \$104 | 89% | 1.7 |
| DLC | LED exterior lighting | 250 Watt Incandescent | Gov't | Ext. Lighting | ROB | measure | 282 | 83% | 0.04 | 15 | \$104 | 89% | 1.7 |
| DLC | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Gov't | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 75% | 0.3 |
| DLC | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Gov't | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 75% | 0.2 |
| DLC | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Gov't | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 3.1 |
| DLC | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Gov't | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.3 |
| DLC | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Gov't | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 3.1 |
| DLC | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Gov't | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.3 |
| DLC | Adding reflective roof treatment | Std color roof | Gov't | Heat Pump | Existing | building | 4,533 | 6.9% | 0.07 | 6 | \$12,489 | 82% | 0.0 |
| DLC | Adding reflective roof treatment | Std color roof | Gov't | Heat Pump | New | building | 4,533 | 6.9% | 0.07 | 6 | \$12,489 | 82% | 0.0 |
| DLC | Adding window shade film | No shade film | Gov't | Heat Pump | Existing | building | 4,533 | 3.9% | 0.4 | 10 | \$55 | 12% | 6.0 |
| DLC | Adding window shade film | No shade film | Gov't | Heat Pump | New | building | 4,533 | 3.9% | 0.4 | 10 | \$55 | 12% | 6.0 |
| DLC | Adding window shade screen | No shade screen | Gov't | Heat Pump | Existing | building | 4,533 | 0.3% | 0.01 | 10 | \$7.1 | 12% | 1.8 |
| DLC | Adding window shade screen | No shade screen | Gov't | Heat Pump | New | building | 4,533 | 0.3% | 0.01 | 10 | \$7.1 | 12% | 1.8 |
| DLC | Automated control system | Manual Controls | Gov't | Heat Pump | Existing | building | 4,533 | 17% | 0.2 | 15 | \$4,962 | 51% | 0.1 |
| DLC | Automated control system | Manual Controls | Gov't | Heat Pump | New | building | 4,533 | 17% | 0.2 | 15 | \$4,962 | 94% | 0.1 |
| DLC | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Gov't | Heat Pump | Existing | building | 4,533 | 3.4% | 0.03 | 15 | \$17,130 | 71% | 0.0 |
| DLC | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Gov't | Heat Pump | New | building | 4,533 | 1.1% | 0.01 | 15 | \$16,283 | 94% | 0.0 |
| DLC | Duct Insulation, Add R8 | No Insulation | Gov't | Heat Pump | Existing | building | 4,533 | 4.0% | 0.04 | 15 | \$36 | 12% | 4.1 |
| DLC | Duct Insulation, Add R8 | No Insulation | Gov't | Heat Pump | New | building | 4,533 | 4.0% | 0.04 | 15 | \$36 | 6% | 4.1 |
| DLC | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Gov't | Heat Pump | Early | heat pump | 2,431 | 12% | 0.02 | 15 | \$4,070 | 83% | 0.0 |
| DLC | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Gov't | Heat Pump | New | heat pump | 2,332 | 7.9% | 0.02 | 15 | \$1,097 | 83% | 0.1 |
| DLC | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Gov't | Heat Pump | ROB | heat pump | 2,332 | 7.9% | 0.02 | 15 | \$1,097 | 83% | 0.1 |
| DLC | Facility Commissioning | No Facility Commissioning | Gov't | Heat Pump | New | building | 4,533 | 16% | 0.2 | 10 | \$140,280 | 89% | 0.0 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Gov't | Heat Pump | Existing | building | 4,533 | 7.0% | 0.07 | 15 | \$20,106 | 25% | 0.0 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Gov't | Heat Pump | New | building | 4,533 | 7.0% | 0.07 | 15 | \$20,106 | 35% | 0.0 |
| DLC | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Gov't | Heat Pump | Early | heat pump | 24,809 | 15% | 0.3 | 15 | \$91,117 | 19% | 0.0 |
| DLC | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Gov't | Heat Pump | New | heat pump | 24,024 | 12% | 0.3 | 15 | \$33,927 | 19% | 0.1 |
| DLC | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Gov't | Heat Pump | ROB | heat pump | 24,024 | 12% | 0.3 | 15 | \$33,927 | 19% | 0.1 |
| DLC | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Gov't | Heat Pump | Early | heat pump | 24,809 | 15% | 0.3 | 15 | \$58,356 | 19% | 0.0 |
| DLC | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Gov't | Heat Pump | New | heat pump | 24,024 | 12% | 0.3 | 15 | \$1,167 | 19% | 1.7 |
| DLC | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Gov't | Heat Pump | ROB | heat pump | 24,024 | 12% | 0.3 | 15 | \$1,167 | 19% | 1.7 |
| DLC | Hi Eff HVAC System Design | No HVAC Design | Gov't | Heat Pump | New | building | 4,533 | 7.3% | 0.07 | 10 | \$1,032,796 | 51% | 0.0 |
| DLC | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Gov't | Heat Pump | Early | heat pump | 6,483 | 16% | 0.09 | 12 | \$4,298 | 81% | 0.1 |
| DLC | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Gov't | Heat Pump | New | heat pump | 6,218 | 12% | 0.07 | 12 | \$852 | 81% | 0.5 |
| DLC | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Gov't | Heat Pump | ROB | heat pump | 6,218 | 12% | 0.07 | 12 | \$852 | 81% | 0.5 |
| DLC | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Gov't | Heat Pump | Existing | building | 4,533 | 5.0% | 0.02 | 5 | \$90 | 51% | 0.5 |
| DLC | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Gov't | Heat Pump | New | building | 4,533 | 5.0% | 0.02 | 5 | \$90 | 51% | 0.5 |
| DLC | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Gov't | Heat Pump | Existing | building | 4,533 | 1.0% | 0.01 | 10 | \$39,486 | 81% | 0.0 |
| DLC | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Gov't | Heat Pump | New | building | 4,533 | 1.0% | 0.01 | 10 | \$39,486 | 81% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|---|---------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Gov't | Heat Pump | Existing | building | 4,533 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.2 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Gov't | Heat Pump | New | building | 4,533 | 2.1% | 0.02 | 11 | \$146 | 49% | 0.4 |
| DLC | Re-Commissioning (Existing Construction) | No Re-Commissioning | Gov't | Heat Pump | Existing | building | 4,533 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |
| DLC | Wall Insualtions (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Gov't | Heat Pump | Existing | building | 4,533 | 6.0% | 0.06 | 15 | \$3,285 | 26% | 0.1 |
| DLC | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Gov't | Heat Pump | New | building | 4,533 | 0.2% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| DLC | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Gov't | Heat Pump | Early | heat pump | 10,524 | 36% | 0.3 | 15 | \$35,347 | 28% | 0.1 |
| DLC | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Gov't | Heat Pump | New | heat pump | 10,078 | 34% | 0.3 | 15 | \$15,739 | 28% | 0.1 |
| DLC | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Gov't | Heat Pump | ROB | heat pump | 10,078 | 34% | 0.3 | 15 | \$15,739 | 28% | 0.1 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Gov't | High Bay Lighting | Early | Fixture | 299 | 9.6% | 0.01 | 13 | \$850 | 39% | 0.0 |
| DLC | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Gov't | High Bay Lighting | Early | Fixture | 299 | 9.5% | 0.01 | 13 | \$850 | 28% | 0.0 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Gov't | High Bay Lighting | Early | Fixture | 461 | 41% | 0.04 | 13 | \$850 | 36% | 0.2 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Gov't | High Bay Lighting | New | Fixture | 227 | 9.6% | 0.00 | 13 | \$372 | 39% | 0.0 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Gov't | High Bay Lighting | New | Fixture | 211 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Gov't | High Bay Lighting | New | Fixture | 350 | 41% | 0.03 | 13 | \$397 | 36% | 0.3 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Gov't | High Bay Lighting | ROB | Fixture | 299 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Gov't | High Bay Lighting | ROB | Fixture | 278 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Gov't | High Bay Lighting | ROB | Fixture | 461 | 41% | 0.04 | 13 | \$397 | 36% | 0.3 |
| DLC | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Gov't | High Bay Lighting | Early | Fixture | 580 | 19% | 0.02 | 13 | \$851 | 38% | 0.1 |
| DLC | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Gov't | High Bay Lighting | Early | Fixture | 587 | 20% | 0.02 | 13 | \$851 | 38% | 0.1 |
| DLC | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | Early | Fixture | 1,708 | 73% | 0.2 | 13 | \$851 | 38% | 1.0 |
| DLC | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Gov't | High Bay Lighting | New | Fixture | 441 | 19% | 0.02 | 13 | \$372 | 38% | 0.2 |
| DLC | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | New | Fixture | 1,298 | 73% | 0.2 | 13 | \$383 | 38% | 1.7 |
| DLC | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Gov't | High Bay Lighting | ROB | Fixture | 580 | 19% | 0.02 | 13 | \$372 | 38% | 0.2 |
| DLC | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | ROB | Fixture | 1,708 | 73% | 0.2 | 13 | \$383 | 38% | 2.3 |
| DLC | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Gov't | High Bay Lighting | Early | Fixture | 580 | 25% | 0.03 | 13 | \$554 | 29% | 0.2 |
| DLC | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Gov't | High Bay Lighting | Early | Fixture | 569 | 23% | 0.03 | 13 | \$554 | 28% | 0.2 |
| DLC | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | Early | Fixture | 1,708 | 74% | 0.2 | 13 | \$554 | 36% | 1.6 |
| DLC | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Gov't | High Bay Lighting | New | Fixture | 441 | 25% | 0.02 | 13 | \$75 | 29% | 1.0 |
| DLC | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | New | Fixture | 1,298 | 74% | 0.2 | 13 | \$86 | 36% | 7.8 |
| DLC | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Gov't | High Bay Lighting | ROB | Fixture | 580 | 25% | 0.03 | 13 | \$75 | 29% | 1.3 |
| DLC | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | ROB | Fixture | 1,708 | 74% | 0.2 | 13 | \$86 | 36% | 10.3 |
| DLC | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Gov't | High Bay Lighting | Early | Fixture | 151 | 0.2% | 0.00 | 13 | \$835 | 38% | 0.0 |
| DLC | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Gov't | High Bay Lighting | Early | Fixture | 326 | 54% | 0.03 | 13 | \$835 | 38% | 0.1 |
| DLC | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Gov't | High Bay Lighting | New | Fixture | 248 | 54% | 0.03 | 13 | \$382 | 38% | 0.2 |
| DLC | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Gov't | High Bay Lighting | ROB | Fixture | 326 | 54% | 0.03 | 13 | \$382 | 38% | 0.3 |
| DLC | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Gov't | High Bay Lighting | Early | Fixture | 739 | 18% | 0.03 | 13 | \$487 | 25% | 0.2 |
| DLC | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Gov't | High Bay Lighting | Early | Fixture | 773 | 22% | 0.03 | 13 | \$487 | 28% | 0.2 |
| DLC | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | Early | Fixture | 1,708 | 65% | 0.2 | 13 | \$487 | 36% | 1.6 |
| DLC | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Gov't | High Bay Lighting | New | Fixture | 562 | 18% | 0.02 | 13 | \$16 | 25% | 4.4 |
| DLC | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | New | Fixture | 1,298 | 65% | 0.2 | 13 | \$18 | 36% | 31.8 |
| DLC | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Gov't | High Bay Lighting | ROB | Fixture | 739 | 18% | 0.03 | 13 | \$16 | 25% | 5.8 |
| DLC | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | ROB | Fixture | 1,708 | 65% | 0.2 | 13 | \$18 | 36% | 41.8 |
| DLC | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Gov't | High Bay Lighting | Early | Fixture | 739 | 1.5% | 0.00 | 13 | \$557 | 19% | 0.0 |
| DLC | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Gov't | High Bay Lighting | Early | Fixture | 761 | 4.3% | 0.01 | 13 | \$557 | 19% | 0.0 |
| DLC | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | Early | Fixture | 1,708 | 57% | 0.2 | 13 | \$557 | 19% | 1.2 |
| DLC | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Gov't | High Bay Lighting | New | Fixture | 562 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| DLC | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | New | Fixture | 1,298 | 57% | 0.1 | 13 | \$88 | 19% | 5.9 |
| DLC | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Gov't | High Bay Lighting | ROB | Fixture | 739 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| DLC | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | ROB | Fixture | 1,708 | 57% | 0.2 | 13 | \$88 | 19% | 7.7 |
| DLC | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Gov't | High Bay Lighting | Early | Fixture | 314 | 29% | 0.01 | 13 | \$492 | 71% | 0.1 |
| DLC | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Gov't | High Bay Lighting | Early | Fixture | 262 | 15% | 0.01 | 13 | \$492 | 95% | 0.1 |
| DLC | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Gov't | High Bay Lighting | Early | Fixture | 390 | 43% | 0.02 | 13 | \$492 | 95% | 0.2 |
| DLC | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Gov't | High Bay Lighting | Early | Fixture | 361 | 38% | 0.02 | 13 | \$492 | 95% | 0.2 |
| DLC | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Gov't | High Bay Lighting | New | Fixture | 199 | 15% | 0.00 | 13 | \$25 | 95% | 0.8 |
| DLC | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Gov't | High Bay Lighting | New | Fixture | 296 | 43% | 0.02 | 13 | \$51 | 95% | 1.6 |
| DLC | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Gov't | High Bay Lighting | ROB | Fixture | 262 | 15% | 0.01 | 13 | \$25 | 95% | 1.0 |
| DLC | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Gov't | High Bay Lighting | ROB | Fixture | 390 | 43% | 0.02 | 13 | \$51 | 95% | 2.1 |
| DLC | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Gov't | High Bay Lighting | Early | lamp | 114 | 16% | 0.00 | 9 | \$7.7 | 99% | 1.1 |
| DLC | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Gov't | High Bay Lighting | New | lamp | 68 | 13% | 0.00 | 9 | \$1.6 | 91% | 2.4 |
| DLC | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Gov't | High Bay Lighting | ROB | lamp | 110 | 13% | 0.00 | 9 | \$1.6 | 91% | 3.9 |
| DLC | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Gov't | High Bay Lighting | Early | Fixture | 1,748 | 23% | 0.08 | 13 | \$613 | 5% | 0.5 |
| DLC | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Gov't | High Bay Lighting | Early | Fixture | 1,373 | 1.6% | 0.00 | 13 | \$613 | 28% | 0.0 |
| DLC | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | Early | Fixture | 3,417 | 60% | 0.4 | 13 | \$613 | 18% | 2.3 |
| DLC | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Gov't | High Bay Lighting | New | Fixture | 1,329 | 23% | 0.06 | 13 | \$96 | 5% | 2.2 |
| DLC | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Gov't | High Bay Lighting | ROB | Fixture | 1,748 | 23% | 0.08 | 13 | \$96 | 5% | 2.9 |
| DLC | 85W Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Gov't | High Bay Lighting | Early | Fixture | 1,748 | 92% | 0.3 | 13 | \$1,916 | 95% | 0.6 |
| DLC | 85W Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | Early | Fixture | 3,417 | 96% | 0.6 | 13 | \$1,916 | 95% | 1.2 |
| DLC | 85W Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Gov't | High Bay Lighting | New | Fixture | 1,329 | 92% | 0.2 | 13 | \$1,468 | 95% | 0.6 |
| DLC | 85W Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | New | Fixture | 2,597 | 96% | 0.5 | 13 | \$1,149 | 95% | 1.5 |
| DLC | 85W Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Gov't | High Bay Lighting | ROB | Fixture | 1,748 | 92% | 0.3 | 13 | \$1,468 | 95% | 0.8 |
| DLC | 85W Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | ROB | Fixture | 3,417 | 96% | 0.6 | 13 | \$1,149 | 95% | 2.0 |
| DLC | Auto Off Time Switch | Lighting w/ No Controls | Gov't | High Bay Lighting | Existing | building | 385 | 24% | 0.2 | 8 | \$1,034 | 13% | 0.2 |
| DLC | Auto Off Time Switch | Lighting w/ No Controls | Gov't | High Bay Lighting | New | building | 385 | 6.9% | 0.07 | 8 | \$1,034 | 0% | 0.0 |
| DLC | Central Lighting Control System | Lighting w/ No Controls | Gov't | High Bay Lighting | Existing | building | 385 | 38% | 0.4 | 8 | \$1,034 | 13% | 0.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|--|---------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Central Lighting Control System | Lighting w/ No Controls | Gov't | High Bay Lighting | New | building | 385 | 14% | 0.1 | 8 | \$1,034 | 13% | 0.1 |
| DLC | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Gov't | High Bay Lighting | New | building | 385 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.0 |
| DLC | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Gov't | High Bay Lighting | New | building | 385 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |
| DLC | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Gov't | High Bay Lighting | New | building | 385 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| DLC | Indoor Daylight Sensors | Lighting w/ No Controls | Gov't | High Bay Lighting | Existing | building | 385 | 28% | 0.3 | 8 | \$5,088 | 13% | 0.0 |
| DLC | Indoor Daylight Sensors | Lighting w/ No Controls | Gov't | High Bay Lighting | New | building | 385 | 4.0% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 365 W High Pressure Sodium Fixture | Gov't | High Bay Lighting | Early | Fixture | 580 | 67% | 0.07 | 13 | \$960 | 95% | 0.3 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 1075 W Mercury Vapor Fixture | Gov't | High Bay Lighting | Early | Fixture | 1,708 | 89% | 0.3 | 13 | \$960 | 95% | 1.1 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 295 W Metal Halide Fixture | Gov't | High Bay Lighting | Early | Fixture | 469 | 59% | 0.05 | 13 | \$960 | 95% | 0.2 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 365 W High Pressure Sodium Fixture | Gov't | High Bay Lighting | New | Fixture | 441 | 67% | 0.06 | 13 | \$480 | 95% | 0.4 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 1075 W Mercury Vapor Fixture | Gov't | High Bay Lighting | New | Fixture | 1,298 | 89% | 0.2 | 13 | \$491 | 95% | 1.6 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 295 W Metal Halide Fixture | Gov't | High Bay Lighting | New | Fixture | 356 | 59% | 0.04 | 13 | \$406 | 95% | 0.4 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 365 W High Pressure Sodium Fixture | Gov't | High Bay Lighting | ROB | Fixture | 580 | 67% | 0.07 | 13 | \$480 | 95% | 0.6 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 1075 W Mercury Vapor Fixture | Gov't | High Bay Lighting | ROB | Fixture | 1,708 | 89% | 0.3 | 13 | \$491 | 95% | 2.1 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 295 W Metal Halide Fixture | Gov't | High Bay Lighting | ROB | Fixture | 469 | 59% | 0.05 | 13 | \$406 | 95% | 0.5 |
| DLC | Occupancy Sensor | Lighting w/ No Controls | Gov't | High Bay Lighting | Existing | building | 385 | 24% | 0.2 | 8 | \$1,558 | 11% | 0.1 |
| DLC | Occupancy Sensor | Lighting w/ No Controls | Gov't | High Bay Lighting | New | building | 385 | 6.9% | 0.07 | 8 | \$1,558 | 0% | 0.0 |
| DLC | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Gov't | High Bay Lighting | Existing | building | 385 | 28% | 0.3 | 8 | \$5,088 | 11% | 0.0 |
| DLC | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Gov't | High Bay Lighting | New | building | 385 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| DLC | Time Clock Control | Lighting w/ No Controls | Gov't | High Bay Lighting | Existing | building | 385 | 28% | 0.3 | 8 | \$1,034 | 13% | 0.2 |
| DLC | Time Clock Control | Lighting w/ No Controls | Gov't | High Bay Lighting | New | building | 385 | 4.1% | 0.04 | 8 | \$1,034 | 0% | 0.0 |
| DLC | Auto Off Time Switch | Lighting w/ No Controls | Gov't | Lin. Fluor. Lighting | Existing | building | 11,544 | 24% | 0.2 | 8 | \$1,034 | 13% | 0.9 |
| DLC | Auto Off Time Switch | Lighting w/ No Controls | Gov't | Lin. Fluor. Lighting | New | building | 11,544 | 7.0% | 0.07 | 8 | \$1,034 | 0% | 0.3 |
| DLC | Central Lighting Control System | Lighting w/ No Controls | Gov't | Lin. Fluor. Lighting | Existing | building | 11,544 | 38% | 0.4 | 8 | \$1,034 | 12% | 1.5 |
| DLC | Central Lighting Control System | Lighting w/ No Controls | Gov't | Lin. Fluor. Lighting | New | building | 11,544 | 14% | 0.1 | 8 | \$1,034 | 12% | 0.5 |
| DLC | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Gov't | Lin. Fluor. Lighting | New | building | 11,544 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.0 |
| DLC | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Gov't | Lin. Fluor. Lighting | New | building | 11,544 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |
| DLC | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Gov't | Lin. Fluor. Lighting | New | building | 11,544 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| DLC | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Gov't | Lin. Fluor. Lighting | Early | Lamp | 229 | 38% | 0.01 | 9 | \$7.3 | 94% | 5.3 |
| DLC | Indoor Daylight Sensors | Lighting w/ No Controls | Gov't | Lin. Fluor. Lighting | Existing | building | 11,544 | 28% | 0.3 | 8 | \$5,088 | 13% | 0.2 |
| DLC | Indoor Daylight Sensors | Lighting w/ No Controls | Gov't | Lin. Fluor. Lighting | New | building | 11,544 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 28W T8 Lamp, Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | Early | Lamp | 38 | 19% | 0.00 | 15 | \$35 | 94% | 0.2 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 40W T12 Lamp, Magnetic Ballast | Gov't | Lin. Fluor. Lighting | Early | Lamp | 83 | 63% | 0.01 | 15 | \$35 | 94% | 1.2 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 28W T5 Lamp, Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | Early | Lamp | 46 | 34% | 0.00 | 15 | \$35 | 94% | 0.4 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 32W T8 Lamp, Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | Early | Lamp | 45 | 32% | 0.00 | 15 | \$35 | 94% | 0.3 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 28W T8 Lamp, Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | New | Lamp | 29 | 19% | 0.00 | 15 | \$28 | 94% | 0.2 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 32W T8 Lamp, Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | New | Lamp | 34 | 32% | 0.00 | 15 | \$29 | 94% | 0.3 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 28W T5 Lamp, Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | New | Lamp | 35 | 34% | 0.00 | 15 | \$22 | 94% | 0.4 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 32W T8 Lamp, Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | New | Lamp | 34 | 32% | 0.00 | 15 | \$29 | 94% | 0.3 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 28W T8 Lamp, Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | ROB | Lamp | 38 | 19% | 0.00 | 15 | \$28 | 94% | 0.2 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 32W T8 Lamp, Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | ROB | Lamp | 45 | 32% | 0.00 | 15 | \$29 | 94% | 0.4 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 28W T5 Lamp, Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | ROB | Lamp | 46 | 34% | 0.00 | 15 | \$22 | 94% | 0.6 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 32W T8 Lamp, Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | ROB | Lamp | 45 | 32% | 0.00 | 15 | \$29 | 94% | 0.4 |
| DLC | Occupancy Sensor | Lighting w/ No Controls | Gov't | Lin. Fluor. Lighting | Existing | building | 11,544 | 24% | 0.2 | 8 | \$1,558 | 12% | 0.6 |
| DLC | Occupancy Sensor | Lighting w/ No Controls | Gov't | Lin. Fluor. Lighting | New | building | 11,544 | 7.0% | 0.07 | 8 | \$1,558 | 0% | 0.2 |
| DLC | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Gov't | Lin. Fluor. Lighting | Existing | building | 11,544 | 28% | 0.3 | 8 | \$5,088 | 11% | 0.2 |
| DLC | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Gov't | Lin. Fluor. Lighting | New | building | 11,544 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 40W T12 w/ Magnetic Ballast | Gov't | Lin. Fluor. Lighting | Early | Lamp | 229 | 54% | 0.02 | 9 | \$9.1 | 94% | 6.1 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | Early | Lamp | 147 | 28% | 0.01 | 9 | \$9.1 | 24% | 2.0 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | Early | Lamp | 142 | 26% | 0.01 | 9 | \$9.1 | 94% | 1.8 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | New | Lamp | 108 | 26% | 0.00 | 9 | \$2.5 | 94% | 4.9 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | New | Lamp | 108 | 26% | 0.00 | 9 | \$2.5 | 94% | 4.9 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | New | Lamp | 112 | 28% | 0.00 | 9 | \$2.5 | 24% | 5.5 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | New | Lamp | 108 | 26% | 0.00 | 9 | \$2.5 | 94% | 4.9 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | ROB | Lamp | 142 | 26% | 0.01 | 9 | \$2.5 | 94% | 6.5 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | ROB | Lamp | 142 | 26% | 0.01 | 9 | \$2.5 | 94% | 6.5 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | ROB | Lamp | 147 | 28% | 0.01 | 9 | \$2.5 | 24% | 7.3 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | ROB | Lamp | 142 | 26% | 0.01 | 9 | \$2.5 | 94% | 6.5 |
| DLC | T8 Lamp (any length) Electronic Ballast | Standard T12 lamp (any length) | Gov't | Lin. Fluor. Lighting | Early | Lamp | 270 | 42% | 0.02 | 9 | \$14 | 94% | 3.6 |
| DLC | Time Clock Control | Lighting w/ No Controls | Gov't | Lin. Fluor. Lighting | Existing | building | 11,544 | 28% | 0.3 | 8 | \$1,034 | 14% | 1.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|--|---------|---------------------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | VFD on Condenser Water Pump | Motor w/out VFD Drive | Gov't | Motors | New | motor | 18,292 | 33% | 0.8 | 15 | \$2,843 | 86% | 1.6 |
| DLC | VFD on Condenser Water Pump | Motor w/out VFD Drive | Gov't | Motors | ROB | motor | 18,292 | 33% | 0.8 | 15 | \$2,843 | 86% | 1.6 |
| DLC | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Gov't | Motors | Early | motor | 27,718 | 56% | 2.0 | 15 | \$2,903 | 86% | 3.9 |
| DLC | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Gov't | Motors | New | motor | 27,199 | 57% | 2.0 | 15 | \$2,843 | 86% | 4.0 |
| DLC | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Gov't | Motors | ROB | motor | 27,199 | 57% | 2.0 | 15 | \$2,843 | 86% | 4.0 |
| DLC | VFD on HVAC Fan | Motor w/out VFD | Gov't | Motors | Early | motor | 18,724 | 70% | 1.9 | 15 | \$2,903 | 86% | 3.4 |
| DLC | VFD on HVAC Fan | Motor w/out VFD | Gov't | Motors | New | motor | 18,373 | 72% | 1.9 | 15 | \$2,843 | 86% | 3.4 |
| DLC | VFD on HVAC Fan | Motor w/out VFD | Gov't | Motors | ROB | motor | 18,373 | 71% | 1.9 | 15 | \$2,843 | 86% | 3.4 |
| DLC | Elevators | Std. Eff Elevator | Gov't | Other | ROB | measure | 89,016 | 1.5% | 0.05 | 15 | \$116 | 63% | 7.5 |
| DLC | Variable Speed Drives on Process Equipment | Constant speed control | Gov't | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 11.5 |
| DLC | Variable Speed Drives on Process Equipment | Constant speed control | Gov't | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 11.5 |
| DLC | 9W Exit Sign Retrofit: CFL replacing Incandescent | One 23W Single Sided Incandescent Exit Sign | Gov't | Other Int. Lighting | Early | exit sign | 139 | 42% | 0.01 | 15 | \$48 | 22% | 0.9 |
| DLC | Auto Off Time Switch | Lighting w/ No Controls | Gov't | Other Int. Lighting | Existing | building | 9,436 | 24% | 0.2 | 8 | \$1,034 | 13% | 0.8 |
| DLC | Auto Off Time Switch | Lighting w/ No Controls | Gov't | Other Int. Lighting | New | building | 9,436 | 7.0% | 0.07 | 8 | \$1,034 | 0% | 0.2 |
| DLC | Central Lighting Control System | Lighting w/ No Controls | Gov't | Other Int. Lighting | Existing | building | 9,436 | 38% | 0.4 | 8 | \$1,034 | 13% | 1.2 |
| DLC | Central Lighting Control System | Lighting w/ No Controls | Gov't | Other Int. Lighting | New | building | 9,436 | 14% | 0.1 | 8 | \$1,034 | 13% | 0.5 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 40W Incandescent Bulb | Gov't | Other Int. Lighting | Early | lamp | 87 | 87% | 0.01 | 15 | \$30 | 14% | 2.0 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Gov't | Other Int. Lighting | Early | lamp | 62 | 81% | 0.01 | 15 | \$30 | 11% | 1.3 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Gov't | Other Int. Lighting | New | lamp | 47 | 81% | 0.01 | 15 | \$21 | 14% | 1.4 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Gov't | Other Int. Lighting | New | lamp | 47 | 81% | 0.01 | 15 | \$23 | 14% | 1.3 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Gov't | Other Int. Lighting | New | lamp | 47 | 81% | 0.01 | 15 | \$22 | 11% | 1.4 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Gov't | Other Int. Lighting | ROB | lamp | 62 | 81% | 0.01 | 15 | \$21 | 14% | 1.9 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Gov't | Other Int. Lighting | ROB | lamp | 62 | 81% | 0.01 | 15 | \$23 | 14% | 1.7 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Gov't | Other Int. Lighting | ROB | lamp | 62 | 81% | 0.01 | 15 | \$22 | 11% | 1.8 |
| DLC | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Gov't | Other Int. Lighting | Early | lamp | 87 | 75% | 0.01 | 7 | \$73 | 24% | 0.3 |
| DLC | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Gov't | Other Int. Lighting | New | fixture | 95 | 65% | 0.01 | 13 | \$29 | 28% | 1.5 |
| DLC | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Gov't | Other Int. Lighting | New | lamp | 47 | 65% | 0.01 | 7 | \$29 | 28% | 0.4 |
| DLC | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Gov't | Other Int. Lighting | ROB | fixture | 125 | 65% | 0.01 | 13 | \$29 | 24% | 1.9 |
| DLC | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Gov't | Other Int. Lighting | ROB | lamp | 62 | 65% | 0.01 | 7 | \$29 | 24% | 0.5 |
| DLC | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Gov't | Other Int. Lighting | Early | lamp | 87 | 75% | 0.01 | 7 | \$3.2 | 24% | 6.9 |
| DLC | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Gov't | Other Int. Lighting | New | lamp | 47 | 65% | 0.01 | 7 | \$1.8 | 24% | 5.8 |
| DLC | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Gov't | Other Int. Lighting | ROB | lamp | 62 | 65% | 0.01 | 7 | \$1.8 | 24% | 7.7 |
| DLC | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Gov't | Other Int. Lighting | ROB | lamp | 62 | 65% | 0.01 | 7 | \$1.8 | 24% | 7.7 |
| DLC | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Gov't | Other Int. Lighting | New | building | 9,436 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.0 |
| DLC | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Gov't | Other Int. Lighting | New | building | 9,436 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |
| DLC | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Gov't | Other Int. Lighting | New | building | 9,436 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| DLC | Indoor Daylight Sensors | Lighting w/ No Controls | Gov't | Other Int. Lighting | Existing | building | 9,436 | 28% | 0.3 | 8 | \$5,088 | 13% | 0.2 |
| DLC | Indoor Daylight Sensors | Lighting w/ No Controls | Gov't | Other Int. Lighting | New | building | 9,436 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| DLC | LED Exit Signs Single-sided (5W) | Existing Single-Sided Exit Signs (Average: 16 W) | Gov't | Other Int. Lighting | Early | sign | 153 | 87% | 0.02 | 15 | \$48 | 16% | 2.0 |
| DLC | LED Exit Signs Single-sided (5W) | One 9W Single-Sided CFL Exit Sign | Gov't | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 2.2 |
| DLC | LED Exit Signs Single-sided (5W) | One 9W Single-Sided CFL Exit Sign | Gov't | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 2.2 |
| DLC | LED Task Lighting/Screw-In (10W) | 1 15W CFL bulb | Gov't | Other Int. Lighting | Early | lamp | 22 | 33% | 0.00 | 15 | \$9.6 | 24% | 0.6 |
| DLC | LED Task Lighting/Screw-In (10W) | 1 60W Incandescent Bulb | Gov't | Other Int. Lighting | Early | lamp | 89 | 83% | 0.01 | 15 | \$9.6 | 24% | 6.0 |
| DLC | LED Task Lighting/Screw-In (10W) | 1 43W EISA Compliant bulb | Gov't | Other Int. Lighting | New | lamp | 49 | 77% | 0.01 | 15 | \$7.9 | 24% | 3.6 |
| DLC | LED Task Lighting/Screw-In (10W) | 1 43W EISA Compliant bulb | Gov't | Other Int. Lighting | New | lamp | 49 | 77% | 0.01 | 15 | \$7.9 | 24% | 3.6 |
| DLC | LED Task Lighting/Screw-In (10W) | 1 43W EISA Compliant bulb | Gov't | Other Int. Lighting | ROB | lamp | 64 | 77% | 0.01 | 15 | \$7.9 | 24% | 4.8 |
| DLC | LED Task Lighting/Screw-In (10W) | 1 43W EISA Compliant bulb | Gov't | Other Int. Lighting | ROB | lamp | 64 | 77% | 0.01 | 15 | \$7.9 | 24% | 4.8 |
| DLC | Occupancy Sensor | Lighting w/ No Controls | Gov't | Other Int. Lighting | Existing | building | 9,436 | 24% | 0.2 | 8 | \$1,558 | 11% | 0.5 |
| DLC | Occupancy Sensor | Lighting w/ No Controls | Gov't | Other Int. Lighting | New | building | 9,436 | 7.0% | 0.07 | 8 | \$1,558 | 0% | 0.2 |
| DLC | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Gov't | Other Int. Lighting | Existing | building | 9,436 | 28% | 0.3 | 8 | \$5,088 | 11% | 0.2 |
| DLC | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Gov't | Other Int. Lighting | New | building | 9,436 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| DLC | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Gov't | Other Int. Lighting | Early | exit sign | 139 | 100% | 0.02 | 15 | \$173 | 26% | 0.6 |
| DLC | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Gov't | Other Int. Lighting | New | exit sign | 80 | 100% | 0.01 | 15 | \$148 | 31% | 0.4 |
| DLC | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Gov't | Other Int. Lighting | ROB | exit sign | 80 | 100% | 0.01 | 15 | \$148 | 26% | 0.4 |
| DLC | Time Clock Control | Lighting w/ No Controls | Gov't | Other Int. Lighting | Existing | building | 9,436 | 28% | 0.3 | 8 | \$1,034 | 13% | 0.9 |
| DLC | Time Clock Control | Lighting w/ No Controls | Gov't | Other Int. Lighting | New | building | 9,436 | 4.1% | 0.04 | 8 | \$1,034 | 0% | 0.1 |
| DLC | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Gov't | Plug Load | Existing | building | 1,348 | 46% | 0.5 | 5 | \$189 | 4% | 1.5 |
| DLC | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Gov't | Plug Load | New | building | 1,348 | 46% | 0.5 | 5 | \$189 | 4% | 1.5 |
| DLC | Data Center - Server/Storage Consolidation | No Consolidation | Gov't | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| DLC | Data Center - Server/Storage Consolidation | No Consolidation | Gov't | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| DLC | Data Center - Server/Storage Virtualization | No Virtualization | Gov't | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| DLC | Data Center - Server/Storage Virtualization | No Virtualization | Gov't | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| DLC | Energy Star - Scanners | Std Scanner | Gov't | Plug Load | New | measure | 68 | 3.8% | 0.04 | 4 | \$130 | 7% | 0.1 |
| DLC | Energy Star - Scanners | Std Scanner | Gov't | Plug Load | ROB | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| DLC | Energy Star Battery Charging System (for small cordless products) | Std. Battery Charging System | Gov't | Plug Load | ROB | measure | 593 | 2.3% | 0.5 | 5 | \$65 | 4% | 3.0 |
| DLC | Energy Star Dishwasher | Existing Dishwasher units | Gov't | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,580 | 1% | 1.1 |
| DLC | Energy Star Dishwasher | Standard Dishwasher unit | Gov't | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 1% | 3.5 |
| DLC | Energy Star Dishwasher | Standard Dishwasher unit | Gov't | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 1% | 3.5 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|---|---------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Energy Star External Power Adapter | Std. Power Adapter | Gov't | Plug Load | New | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| DLC | Energy Star External Power Adapter | Std. Power Adapter | Gov't | Plug Load | ROB | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| DLC | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Gov't | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 17% | 0.2 |
| DLC | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Gov't | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.1 |
| DLC | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Gov't | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.1 |
| DLC | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Gov't | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 9% | 0.7 |
| DLC | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Gov't | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.5 |
| DLC | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Gov't | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.5 |
| DLC | ENERGY STAR® Copiers | 10% Less Efficient Copier | Gov't | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 18% | 0.0 |
| DLC | ENERGY STAR® Copiers | One Conventional Copier | Gov't | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| DLC | ENERGY STAR® Copiers | One Conventional Copier | Gov't | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| DLC | ENERGY STAR® desktop | Standard computer | Gov't | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 69% | 0.1 |
| DLC | ENERGY STAR® desktop | Standard computer | Gov't | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.1 |
| DLC | ENERGY STAR® desktop | Standard computer | Gov't | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.1 |
| DLC | ENERGY STAR® Fax | 10% Less Efficient Fax | Gov't | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 15% | 0.0 |
| DLC | ENERGY STAR® Fax | One Conventional Fax | Gov't | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.1 |
| DLC | ENERGY STAR® Fax | One Conventional Fax | Gov't | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.1 |
| DLC | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Gov't | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 70% | 0.0 |
| DLC | ENERGY STAR® Monitors | One Conventional Monitor | Gov't | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| DLC | ENERGY STAR® Monitors | One Conventional Monitor | Gov't | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| DLC | ENERGY STAR® Printers | 10% Less Efficient Printer | Gov't | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 44% | 0.0 |
| DLC | ENERGY STAR® Printers | One Conventional Printer | Gov't | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| DLC | ENERGY STAR® Printers | One Conventional Printer | Gov't | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| DLC | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Gov't | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 43% | 0.1 |
| DLC | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Gov't | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.8 |
| DLC | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Gov't | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.8 |
| DLC | ENERGY STAR® Televisions | 10% Less Efficient Television | Gov't | Plug Load | Early | Unit | 111 | 38% | 0.01 | 6 | \$672 | 40% | 0.0 |
| DLC | ENERGY STAR® Televisions | One Conventional Television | Gov't | Plug Load | New | Unit | 101 | 32% | 0.01 | 6 | \$206 | 40% | 0.0 |
| DLC | ENERGY STAR® Televisions | One Conventional Television | Gov't | Plug Load | ROB | Unit | 101 | 32% | 0.01 | 6 | \$206 | 40% | 0.0 |
| DLC | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Gov't | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 24% | 0.3 |
| DLC | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Gov't | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.7 |
| DLC | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Gov't | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.7 |
| DLC | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Gov't | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.3 |
| DLC | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Gov't | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.3 |
| DLC | Network PC Power Management | No PC Power Management | Gov't | Plug Load | Existing | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 14.2 |
| DLC | Network PC Power Management | No PC Power Management | Gov't | Plug Load | New | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 14.2 |
| DLC | Smart Strip Plug Outlets | Standard plug strip/outlet | Gov't | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.2 |
| DLC | Smart Strip Plug Outlets | Standard plug strip/outlet | Gov't | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.2 |
| DLC | Smart Strip Plug Outlets | Standard plug strip/outlet | Gov't | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| DLC | Smart Strip Plug Outlets | Standard plug strip/outlet | Gov't | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| DLC | Smart Strip Plug Outlets | Standard plug strip/outlet | Gov't | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| DLC | Smart Strip Plug Outlets | Standard plug strip/outlet | Gov't | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| DLC | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Gov't | Plug Load | Existing | building | 1,348 | 46% | 0.5 | 5 | \$180 | 3% | 1.6 |
| DLC | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Gov't | Plug Load | New | building | 1,348 | 46% | 0.5 | 5 | \$180 | 3% | 1.6 |
| DLC | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Gov't | Refrigeration | Existing | building | 708 | 1.1% | 0.01 | 12 | \$70 | 11% | 0.2 |
| DLC | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Gov't | Refrigeration | New | building | 708 | 1.1% | 0.01 | 12 | \$70 | 11% | 0.2 |
| DLC | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Gov't | Refrigeration | Existing | building | 708 | 7.0% | 0.07 | 12 | \$70 | 11% | 1.1 |
| DLC | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Gov't | Refrigeration | New | building | 708 | 7.0% | 0.07 | 12 | \$70 | 11% | 1.1 |
| DLC | Auto Closer on Refrigerator Door | Door w/out Autocloser | Gov't | Refrigeration | Existing | building | 3,640 | 27% | 0.3 | 8 | \$747 | 40% | 0.6 |
| DLC | Auto Closer on Refrigerator Door | Door w/out Autocloser | Gov't | Refrigeration | Existing | building | 5,460 | 15% | 0.2 | 8 | \$763 | 40% | 0.4 |
| DLC | Auto Closer on Refrigerator Door | Door w/out Autocloser | Gov't | Refrigeration | New | building | 3,640 | 27% | 0.3 | 8 | \$747 | 40% | 0.6 |
| DLC | Auto Closer on Refrigerator Door | Door w/out Autocloser | Gov't | Refrigeration | New | building | 5,460 | 15% | 0.2 | 8 | \$763 | 40% | 0.4 |
| DLC | Demand Hot Gas Defrost | Base Refrigeration System | Gov't | Refrigeration | Existing | measure | 708 | 3.0% | 0.03 | 10 | \$1,301 | 0% | 0.0 |
| DLC | Demand Hot Gas Defrost | Base Refrigeration System | Gov't | Refrigeration | New | measure | 708 | 3.0% | 0.03 | 10 | \$1,301 | 0% | 0.0 |
| DLC | Door Gasket- Freezer | Door w/out Gasket | Gov't | Refrigeration | Existing | building | 3,640 | 15% | 0.1 | 4 | \$77 | 29% | 1.6 |
| DLC | Door Gasket- Freezer | Door w/out Gasket | Gov't | Refrigeration | New | building | 3,640 | 15% | 0.1 | 4 | \$77 | 29% | 1.6 |
| DLC | Door Gasket- Refrigerator | Door w/out Gasket | Gov't | Refrigeration | Existing | building | 5,460 | 4.8% | 0.05 | 4 | \$105 | 45% | 0.5 |
| DLC | Door Gasket- Refrigerator | Door w/out Gasket | Gov't | Refrigeration | New | building | 5,460 | 4.8% | 0.05 | 4 | \$105 | 45% | 0.5 |
| DLC | eCube | Refrigeration unit w/out eCube | Gov't | Refrigeration | Existing | building | 5,460 | 15% | 0.2 | 15 | \$504 | 57% | 1.3 |
| DLC | eCube | Refrigeration unit w/out eCube | Gov't | Refrigeration | New | building | 5,460 | 15% | 0.2 | 15 | \$504 | 57% | 1.3 |
| DLC | Efficient compressor motor | Base Refrigeration System - Grocery | Gov't | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.3 |
| DLC | Efficient compressor motor | Base Refrigeration System - Grocery | Gov't | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.3 |
| DLC | Efficient compressor motor | Base Refrigeration System - Grocery | Gov't | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.3 |
| DLC | Efficient compressor motor | Base Refrigeration System - Grocery | Gov't | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.3 |
| DLC | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Gov't | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.6 |
| DLC | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Gov't | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| DLC | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Gov't | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|--|---------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Gov't | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.3 |
| DLC | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Gov't | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.8 |
| DLC | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Gov't | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.8 |
| DLC | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Gov't | Refrigeration | Existing | building | 5,460 | 1.7% | 0.02 | 10 | \$369 | 77% | 0.1 |
| DLC | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Gov't | Refrigeration | New | building | 5,460 | 1.7% | 0.02 | 10 | \$369 | 77% | 0.1 |
| DLC | Floating head pressure controller | System w/out FHPC | Gov't | Refrigeration | Existing | building | 3,640 | 6.4% | 0.03 | 15 | \$8,682 | 41% | 0.0 |
| DLC | Floating head pressure controller | System w/out FHPC | Gov't | Refrigeration | Existing | building | 708 | 13% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| DLC | Floating head pressure controller | System w/out FHPC | Gov't | Refrigeration | Existing | building | 5,460 | 1.5% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| DLC | Floating head pressure controller | System w/out FHPC | Gov't | Refrigeration | New | building | 3,640 | 6.4% | 0.03 | 15 | \$8,682 | 41% | 0.0 |
| DLC | Floating head pressure controller | System w/out FHPC | Gov't | Refrigeration | New | building | 708 | 13% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| DLC | Floating head pressure controller | System w/out FHPC | Gov't | Refrigeration | New | building | 5,460 | 1.5% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| DLC | High Efficiency Commercial Freezer | Std. Commercial Freezer | Gov't | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 86% | 0.4 |
| DLC | High Efficiency Commercial Freezer | Std. Commercial Freezer | Gov't | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 4.4 |
| DLC | High Efficiency Commercial Freezer | Std. Commercial Freezer | Gov't | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 4.4 |
| DLC | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Gov't | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 2% | 0.1 |
| DLC | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Gov't | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$406 | 2% | 1.0 |
| DLC | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Gov't | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$406 | 2% | 1.0 |
| DLC | High Efficiency Ice Maker | Existing Standard Efficiency Ice Maker in Pennsylvania | Gov't | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 73% | 0.2 |
| DLC | High Efficiency Ice Maker | Standard code minimum Ice Maker | Gov't | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| DLC | High Efficiency Ice Maker | Standard code minimum Ice Maker | Gov't | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| DLC | High Efficiency Ice Making Head | Standard Ice Making Head | Gov't | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 4.1 |
| DLC | High Efficiency Ice Making Head | Standard Ice Making Head | Gov't | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 4.1 |
| DLC | High R-Value Glass Doors | Base Refrigeration System - Grocery | Gov't | Refrigeration | Existing | building | 708 | 0.7% | 0.01 | 10 | \$15 | 0% | 0.5 |
| DLC | High R-Value Glass Doors | Base Refrigeration System - Grocery | Gov't | Refrigeration | New | building | 708 | 0.7% | 0.01 | 10 | \$15 | 0% | 0.5 |
| DLC | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Gov't | Refrigeration | Early | Fixture | 373 | 56% | 0.01 | 8 | \$448 | 47% | 0.1 |
| DLC | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Gov't | Refrigeration | New | Fixture | 291 | 44% | 0.00 | 8 | \$139 | 47% | 0.3 |
| DLC | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Gov't | Refrigeration | ROB | Fixture | 291 | 44% | 0.00 | 8 | \$139 | 47% | 0.3 |
| DLC | No-heat glass doors | Standard low-temp reach-in | Gov't | Refrigeration | Existing | building | 708 | 20% | 0.2 | 10 | \$1,336 | 8% | 0.1 |
| DLC | No-heat glass doors | Standard low-temp reach-in | Gov't | Refrigeration | New | building | 708 | 20% | 0.2 | 10 | \$1,336 | 8% | 0.1 |
| DLC | Quick acting freezer doors | Std. Freezer Doors | Gov't | Refrigeration | Existing | building | 3,640 | 13% | 0.1 | 10 | \$809 | 56% | 0.3 |
| DLC | Quick acting freezer doors | Std. Freezer Doors | Gov't | Refrigeration | New | building | 3,640 | 13% | 0.1 | 10 | \$809 | 56% | 0.3 |
| DLC | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Gov't | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 30% | 0.5 |
| DLC | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Gov't | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.8 |
| DLC | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Gov't | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.8 |
| DLC | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 30% | 1.8 |
| DLC | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 3.3 |
| DLC | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 3.3 |
| DLC | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 30% | 1.9 |
| DLC | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 4.4 |
| DLC | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 4.4 |
| DLC | Refrigeration Commissioning | Non-commissioned refrigeration system | Gov't | Refrigeration | Existing | building | 10,110 | 9.5% | 0.10 | 3 | \$3,613 | 85% | 0.0 |
| DLC | Refrigeration Commissioning | Non-commissioned refrigeration system | Gov't | Refrigeration | New | building | 10,110 | 9.5% | 0.10 | 3 | \$3,613 | 85% | 0.0 |
| DLC | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Gov't | Refrigeration | Existing | building | 3,640 | 35% | 0.3 | 4 | \$93 | 22% | 3.1 |
| DLC | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Gov't | Refrigeration | Existing | building | 5,460 | 6.8% | 0.07 | 4 | \$128 | 22% | 0.6 |
| DLC | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Gov't | Refrigeration | New | building | 3,640 | 35% | 0.3 | 4 | \$93 | 22% | 3.1 |
| DLC | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Gov't | Refrigeration | New | building | 5,460 | 6.8% | 0.07 | 4 | \$128 | 22% | 0.6 |
| DLC | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Gov't | Refrigeration | Existing | building | 3,640 | 5.9% | 0.06 | 11 | \$119 | 79% | 1.2 |
| DLC | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Gov't | Refrigeration | New | building | 3,640 | 5.9% | 0.06 | 11 | \$119 | 79% | 1.2 |
| DLC | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Gov't | Refrigeration | Existing | building | 5,460 | 4.5% | 0.05 | 11 | \$119 | 79% | 1.2 |
| DLC | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Gov't | Refrigeration | New | building | 5,460 | 4.5% | 0.05 | 11 | \$119 | 79% | 1.2 |
| DLC | Vertical Night Covers | Display cases w/out night covers-High Temperature | Gov't | Refrigeration | Existing | building | 708 | 0.6% | 0.01 | 5 | \$52 | 9% | 0.1 |
| DLC | Vertical Night Covers | Display cases w/out night covers-High Temperature | Gov't | Refrigeration | New | building | 708 | 0.6% | 0.01 | 5 | \$52 | 9% | 0.1 |
| DLC | VSD Controlled Compressor | Compressor w/out VSD | Gov't | Refrigeration | Early | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.2 |
| DLC | VSD Controlled Compressor | Compressor w/out VSD | Gov't | Refrigeration | New | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.2 |
| DLC | VSD Controlled Compressor | Compressor w/out VSD | Gov't | Refrigeration | ROB | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.2 |
| DLC | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Gov't | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$268 | 35% | 1.0 |
| DLC | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Gov't | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$268 | 35% | 1.0 |
| DLC | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Gov't | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.5 |
| DLC | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Gov't | Refrigeration | New | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 3.3 |
| DLC | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Gov't | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.5 |
| DLC | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Gov't | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 3.3 |
| DLC | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 35% | 2.7 |
| DLC | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 35% | 2.5 |
| DLC | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 5.7 |
| DLC | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 5.4 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|---|---------|-----------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 5.7 |
| DLC | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 5.4 |
| DLC | Adding reflective roof treatment | Std color roof | Gov't | Space Heating | Existing | building | 9,822 | 7.1% | 0.07 | 6 | \$12,489 | 82% | 0.0 |
| DLC | Adding reflective roof treatment | Std color roof | Gov't | Space Heating | New | building | 9,822 | 7.1% | 0.07 | 6 | \$12,489 | 82% | 0.0 |
| DLC | Adding window shade film | No shade film | Gov't | Space Heating | Existing | building | 9,822 | 1.3% | 0.4 | 10 | \$120 | 13% | 2.6 |
| DLC | Adding window shade film | No shade film | Gov't | Space Heating | New | building | 9,822 | 1.3% | 0.4 | 10 | \$120 | 13% | 2.6 |
| DLC | Adding window shade screen | No shade screen | Gov't | Space Heating | Existing | building | 9,822 | 1.1% | 0.01 | 10 | \$46 | 13% | 1.1 |
| DLC | Adding window shade screen | No shade screen | Gov't | Space Heating | New | building | 9,822 | 1.1% | 0.01 | 10 | \$46 | 13% | 1.1 |
| DLC | Automated control system | Manual Controls | Gov't | Space Heating | Existing | building | 9,822 | 17% | 0.2 | 15 | \$10,753 | 51% | 0.1 |
| DLC | Automated control system | Manual Controls | Gov't | Space Heating | New | building | 9,822 | 17% | 0.2 | 15 | \$10,753 | 94% | 0.1 |
| DLC | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Gov't | Space Heating | Existing | building | 9,822 | 3.4% | 0.03 | 15 | \$17,130 | 71% | 0.0 |
| DLC | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Gov't | Space Heating | New | building | 9,822 | 1.1% | 0.01 | 15 | \$16,283 | 94% | 0.0 |
| DLC | Duct Insulation, Add R8 | No Insulation | Gov't | Space Heating | Existing | building | 9,822 | 1.4% | 0.04 | 15 | \$78 | 20% | 1.5 |
| DLC | Duct Insulation, Add R8 | No Insulation | Gov't | Space Heating | New | building | 9,822 | 1.4% | 0.04 | 15 | \$78 | 10% | 1.5 |
| DLC | Efficient Unit Heating System | Existing Unit Heaters in PA | Gov't | Space Heating | Early | heater | 36,260 | 23% | 0.06 | 15 | \$3,289 | 83% | 1.5 |
| DLC | Efficient Unit Heating System | Std. Unit Heater | Gov't | Space Heating | New | heater | 32,181 | 13% | 0.03 | 15 | \$1,991 | 83% | 1.3 |
| DLC | Efficient Unit Heating System | Std. Unit Heater | Gov't | Space Heating | ROB | heater | 32,181 | 13% | 0.03 | 15 | \$1,991 | 83% | 1.3 |
| DLC | Facility Commissioning | No Facility Commissioning | Gov't | Space Heating | New | building | 9,822 | 16% | 0.2 | 10 | \$140,280 | 89% | 0.0 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Gov't | Space Heating | Existing | building | 9,822 | 7.1% | 0.07 | 15 | \$43,568 | 25% | 0.0 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Gov't | Space Heating | New | building | 9,822 | 7.1% | 0.07 | 15 | \$43,568 | 35% | 0.0 |
| DLC | Hi Eff HVAC System Design | No HVAC Design | Gov't | Space Heating | New | building | 9,822 | 7.4% | 0.07 | 10 | \$1,032,796 | 51% | 0.0 |
| DLC | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Gov't | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 1.1 |
| DLC | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Gov't | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 1.1 |
| DLC | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Gov't | Space Heating | Existing | building | 9,822 | 1.1% | 0.01 | 10 | \$7,735 | 81% | 0.0 |
| DLC | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Gov't | Space Heating | New | building | 9,822 | 1.1% | 0.01 | 10 | \$7,735 | 81% | 0.0 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Gov't | Space Heating | Existing | building | 9,822 | 3.6% | 0.04 | 11 | \$286 | 49% | 0.6 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Gov't | Space Heating | New | building | 9,822 | 3.1% | 0.03 | 11 | \$146 | 49% | 1.1 |
| DLC | Re-Commissioning (Existing Construction) | No Re-Commissioning | Gov't | Space Heating | Existing | building | 9,822 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |
| DLC | VFD on Cooling Tower Fan | Motor w/out VFD | Gov't | Space Heating | Early | motor | 18,724 | 70% | 0.10 | 15 | \$2,843 | 88% | 2.8 |
| DLC | VFD on Cooling Tower Fan | Motor w/out VFD | Gov't | Space Heating | New | motor | 18,373 | 72% | 0.10 | 15 | \$2,843 | 88% | 2.8 |
| DLC | VFD on Cooling Tower Fan | Motor w/out VFD | Gov't | Space Heating | ROB | motor | 18,373 | 72% | 0.10 | 15 | \$2,843 | 88% | 2.8 |
| DLC | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Gov't | Space Heating | Existing | building | 9,822 | 6.0% | 0.06 | 15 | \$3,285 | 26% | 0.1 |
| DLC | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Gov't | Space Heating | New | building | 9,822 | 0.2% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| DLC | 80W Induction Street Lighting | One 100W HPS Street Light Fixture | Gov't | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 0% | 0.3 |
| DLC | 80W Induction Street Lighting | One 100W HPS Street Light Fixture | Gov't | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.9 |
| DLC | 80W Induction Street Lighting | One 100W HPS Street Light Fixture | Gov't | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.9 |
| DLC | Green LED Traffic Light | Green Incandescent Traffic Light | Gov't | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 0% | 1.3 |
| DLC | Green LED Traffic Light | Green Incandescent Traffic Light | Gov't | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.2 |
| DLC | Green LED Traffic Light | Green Incandescent Traffic Light | Gov't | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.2 |
| DLC | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Gov't | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 0% | 3.1 |
| DLC | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Gov't | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| DLC | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Gov't | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| DLC | LED Street Lighting (67W) | One 100W HPS Street Light | Gov't | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 0% | 0.2 |
| DLC | LED Street Lighting (67W) | One 100W HPS Street Light | Gov't | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.4 |
| DLC | LED Street Lighting (67W) | One 100W HPS Street Light | Gov't | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.4 |
| DLC | Red LED Traffic Light | One Red Incandescent Traffic Light | Gov't | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 0% | 1.7 |
| DLC | Red LED Traffic Light | One Red Incandescent Traffic Light | Gov't | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| DLC | Red LED Traffic Light | One Red Incandescent Traffic Light | Gov't | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| DLC | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Gov't | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 0% | 0.1 |
| DLC | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Gov't | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| DLC | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Gov't | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| DLC | Demand controlled Circulating Systems | Constant circulation system | Gov't | Water Heating | Existing | building | 8,467 | 20% | 0.2 | 15 | \$1,536 | 59% | 0.8 |
| DLC | Demand controlled Circulating Systems | Constant circulation system | Gov't | Water Heating | New | building | 8,467 | 20% | 0.2 | 15 | \$1,536 | 59% | 0.8 |
| DLC | Drainwater Heat Recovery Water Heater | No heat recovery | Gov't | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 2.1 |
| DLC | Drainwater Heat Recovery Water Heater | No heat recovery | Gov't | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 2.1 |
| DLC | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Gov't | Water Heating | Existing | building | 8,467 | 5.9% | 0.06 | 12 | \$42 | 85% | 6.9 |
| DLC | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Gov't | Water Heating | New | building | 8,467 | 5.9% | 0.06 | 12 | \$12 | 85% | 24.3 |
| DLC | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Gov't | Water Heating | Early | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 3.1 |
| DLC | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Gov't | Water Heating | Early | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 3.1 |
| DLC | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Gov't | Water Heating | New | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 3.1 |
| DLC | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Gov't | Water Heating | New | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 3.1 |
| DLC | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Gov't | Water Heating | ROB | water heater | 10,350 | 65% | 1.2 | 10 | \$1,187 | 68% | 2.9 |
| DLC | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Gov't | Water Heating | ROB | water heater | 10,350 | 65% | 1.2 | 10 | \$1,187 | 68% | 2.9 |
| DLC | Heat Recovery Unit | Base Water Heating | Gov't | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.8 |
| DLC | Heat Recovery Unit | Base Water Heating | Gov't | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.8 |
| DLC | Heat Trap | No Heat Trap | Gov't | Water Heating | Existing | building | 8,467 | 22% | 0.2 | 11 | \$58 | 50% | 17.3 |
| DLC | Heat Trap | No Heat Trap | Gov't | Water Heating | New | building | 8,467 | 22% | 0.2 | 11 | \$8.6 | 50% | 116.4 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|--|---------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Gov't | Water Heating | Early | water heater | 10,645 | 5.9% | 0.1 | 15 | \$307 | 79% | 1.6 |
| DLC | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Gov't | Water Heating | Early | water heater | 10,645 | 5.9% | 0.1 | 15 | \$307 | 79% | 1.6 |
| DLC | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Gov't | Water Heating | New | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.8 |
| DLC | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Gov't | Water Heating | New | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.8 |
| DLC | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Gov't | Water Heating | ROB | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.8 |
| DLC | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Gov't | Water Heating | ROB | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.8 |
| DLC | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Gov't | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$466 | 81% | 43.7 |
| DLC | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Gov't | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 22.8 |
| DLC | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Gov't | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 22.8 |
| DLC | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Gov't | Water Heating | Existing | building | 8,467 | 0.4% | 0.00 | 13 | \$4.9 | 68% | 4.5 |
| DLC | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Gov't | Water Heating | New | building | 8,467 | 0.4% | 0.00 | 13 | \$4.9 | 0% | 4.5 |
| DLC | Hot Water Circulation Pump Time-Clock | Constant circulation system | Gov't | Water Heating | Existing | building | 8,467 | 5.3% | 0.05 | 10 | \$34 | 72% | 6.3 |
| DLC | Hot Water Circulation Pump Time-Clock | Constant circulation system | Gov't | Water Heating | New | building | 8,467 | 5.3% | 0.05 | 10 | \$34 | 72% | 6.3 |
| DLC | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Gov't | Water Heating | Existing | building | 8,467 | 0.9% | 0.01 | 7 | \$22 | 78% | 1.1 |
| DLC | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Gov't | Water Heating | New | building | 8,467 | 0.8% | 0.01 | 7 | \$0.5 | 78% | 41.0 |
| DLC | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Gov't | Water Heating | Existing | building | 8,467 | 2.3% | 0.02 | 5 | \$300 | 20% | 0.1 |
| DLC | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Gov't | Water Heating | New | building | 8,467 | 1.5% | 0.02 | 5 | \$194 | 20% | 0.1 |
| DLC | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Gov't | Water Heating | Existing | building | 8,467 | 6.5% | 0.07 | 9 | \$25 | 2% | 9.3 |
| DLC | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Gov't | Water Heating | New | building | 8,467 | 6.5% | 0.07 | 9 | \$6.0 | 2% | 38.8 |
| DLC | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Gov't | Water Heating | Early | water heater | 10,645 | 52% | 0.4 | 15 | \$6,222 | 32% | 0.6 |
| DLC | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Gov't | Water Heating | New | water heater | 10,350 | 51% | 0.4 | 15 | \$6,222 | 32% | 0.6 |
| DLC | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Gov't | Water Heating | ROB | water heater | 10,350 | 51% | 0.4 | 15 | \$6,222 | 32% | 0.6 |
| DLC | Ultrasonic Faucet Control | Manual Faucet Control | Gov't | Water Heating | Existing | building | 8,467 | 3.0% | 0.03 | 10 | \$1,464 | 77% | 0.1 |
| DLC | Ultrasonic Faucet Control | Manual Faucet Control | Gov't | Water Heating | New | building | 8,467 | 3.1% | 0.03 | 10 | \$1,464 | 77% | 0.1 |
| DLC | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Gov't | Water Heating | Existing | building | 8,467 | 2.2% | 0.02 | 4 | \$28 | 83% | 1.3 |
| DLC | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Gov't | Water Heating | New | building | 8,467 | 2.3% | 0.02 | 4 | \$28 | 83% | 1.3 |
| DLC | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Grocery | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.2 |
| DLC | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Grocery | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.2 |
| DLC | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Grocery | Cooking | Early | steamer | 51 | 46% | 0.00 | 12 | \$5,053 | 81% | 0.0 |
| DLC | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Grocery | Cooking | New | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| DLC | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Grocery | Cooking | ROB | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| DLC | Electric combination oven (Energy Star) | Standard Oven | Grocery | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 3.3 |
| DLC | Electric combination oven (Energy Star) | Standard Oven | Grocery | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 3.3 |
| DLC | Electric Convection Oven ENERTY STAR (74% Eff) | Conventional convection oven w/ 65% efficiency | Grocery | Cooking | Early | oven | 8,641 | 37% | 0.6 | 12 | \$4,119 | 81% | 0.5 |
| DLC | Electric Convection Oven ENERTY STAR (74% Eff) | Conventional convection oven w/ 70% efficiency | Grocery | Cooking | New | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.8 |
| DLC | Electric Convection Oven ENERTY STAR (74% Eff) | Conventional convection oven w/ 70% efficiency | Grocery | Cooking | ROB | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.8 |
| DLC | High Efficiency Fryer (ENERGY STAR 84% Eff) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Grocery | Cooking | Early | fryer | 6,105 | 23% | 0.3 | 12 | \$9,241 | 86% | 0.1 |
| DLC | High Efficiency Fryer (ENERGY STAR 84% Eff) | Standard Electric Fryer meeting Code Minimum | Grocery | Cooking | New | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.4 |
| DLC | High Efficiency Fryer (ENERGY STAR 84% Eff) | Standard Electric Fryer meeting Code Minimum | Grocery | Cooking | ROB | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.4 |
| DLC | High Efficiency Griddle (ENERGY STAR 75% Eff) | Efficiency code minimum griddle (70% eff) | Grocery | Cooking | Early | griddle | 11,317 | 65% | 1.4 | 12 | \$4,977 | 86% | 1.0 |
| DLC | High Efficiency Griddle (ENERGY STAR 75% Eff) | Conventional Griddle w/ 60% efficiency | Grocery | Cooking | New | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.3 |
| DLC | High Efficiency Griddle (ENERGY STAR 75% Eff) | Conventional Griddle w/ 60% efficiency | Grocery | Cooking | ROB | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.3 |
| DLC | High Efficiency Induction Cooking | Standard Cooking | Grocery | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.2 |
| DLC | High Efficiency Induction Cooking | Standard Cooking | Grocery | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.2 |
| DLC | Solid-state temperature controls | No Solid State Controls | Grocery | Cooking | Existing | building | 4,585 | 3.6% | 0.04 | 12 | \$21 | 34% | 5.3 |
| DLC | Adding reflective roof treatment | Std color roof | Grocery | Cooling Central | Existing | building | 3,121 | 7.0% | 0.07 | 6 | \$24,149 | 82% | 0.0 |
| DLC | Adding reflective roof treatment | Std color roof | Grocery | Cooling Central | New | building | 3,121 | 7.0% | 0.07 | 6 | \$24,149 | 82% | 0.0 |
| DLC | Adding window shade film | No shade film | Grocery | Cooling Central | Existing | building | 3,121 | 1.3% | 0.4 | 10 | \$38 | 12% | 7.3 |
| DLC | Adding window shade film | No shade film | Grocery | Cooling Central | New | building | 3,121 | 1.3% | 0.4 | 10 | \$38 | 13% | 7.3 |
| DLC | Adding window shade screen | No shade screen | Grocery | Cooling Central | Existing | building | 3,121 | 1.1% | 0.01 | 10 | \$15 | 13% | 1.4 |
| DLC | Adding window shade screen | No shade screen | Grocery | Cooling Central | New | building | 3,121 | 1.1% | 0.01 | 10 | \$15 | 13% | 1.4 |
| DLC | Automated control system | Manual Controls | Grocery | Cooling Central | Existing | building | 3,121 | 17% | 0.2 | 15 | \$3,416 | 51% | 0.1 |
| DLC | Automated control system | Manual Controls | Grocery | Cooling Central | New | building | 3,121 | 17% | 0.2 | 15 | \$3,416 | 94% | 0.1 |
| DLC | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Grocery | Cooling Central | Existing | building | 3,121 | 9.8% | 0.10 | 15 | \$33,930 | 71% | 0.0 |
| DLC | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Grocery | Cooling Central | New | building | 3,121 | 3.3% | 0.03 | 15 | \$32,251 | 94% | 0.0 |
| DLC | Chiller Tuneup/Diagnostics | No tuneup | Grocery | Cooling Central | Existing | building | 3,121 | 8.0% | 0.08 | 10 | \$7,968 | 59% | 0.0 |
| DLC | Chiller Tuneup/Diagnostics | No tuneup | Grocery | Cooling Central | New | building | 3,121 | 8.0% | 0.08 | 10 | \$7,968 | 59% | 0.0 |
| DLC | Duct Insulation, Add R8 | No Insulation | Grocery | Cooling Central | Existing | building | 3,121 | 1.4% | 0.04 | 15 | \$25 | 20% | 2.6 |
| DLC | Duct Insulation, Add R8 | No Insulation | Grocery | Cooling Central | New | building | 3,121 | 1.4% | 0.04 | 15 | \$25 | 10% | 2.6 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Grocery | Cooling Central | Existing | building | 3,121 | 7.0% | 0.07 | 15 | \$13,842 | 25% | 0.0 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Grocery | Cooling Central | New | building | 3,121 | 7.0% | 0.07 | 15 | \$13,842 | 35% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|---|---------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Hi Eff HVAC System Design | No HVAC Design | Grocery | Cooling Central | New | building | 3,121 | 9.3% | 0.09 | 10 | \$905,299 | 51% | 0.0 |
| DLC | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Grocery | Cooling Central | Early | ton | 5,094 | 24% | 0.4 | 15 | \$108,550 | 88% | 0.0 |
| DLC | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Grocery | Cooling Central | New | ton | 4,164 | 6.7% | 0.10 | 15 | \$12,927 | 88% | 0.0 |
| DLC | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Grocery | Cooling Central | ROB | ton | 4,164 | 6.7% | 0.10 | 15 | \$12,927 | 88% | 0.0 |
| DLC | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Grocery | Cooling Central | Early | ton | 7,611 | 23% | 0.6 | 15 | \$140,105 | 88% | 0.0 |
| DLC | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Grocery | Cooling Central | New | ton | 6,124 | 4.8% | 0.1 | 15 | \$9,336 | 88% | 0.0 |
| DLC | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Grocery | Cooling Central | ROB | ton | 6,124 | 4.8% | 0.1 | 15 | \$9,336 | 88% | 0.0 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Grocery | Cooling Central | Early | ton | 62,308 | 26% | 5.6 | 15 | \$105,354 | 88% | 0.1 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Grocery | Cooling Central | New | ton | 54,288 | 15% | 2.8 | 15 | \$30,530 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Grocery | Cooling Central | ROB | ton | 54,288 | 15% | 2.8 | 15 | \$30,530 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Grocery | Cooling Central | Early | ton | 93,320 | 23% | 7.4 | 15 | \$154,107 | 88% | 0.1 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Grocery | Cooling Central | New | ton | 85,726 | 16% | 4.8 | 15 | \$27,646 | 88% | 0.5 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Grocery | Cooling Central | ROB | ton | 93,320 | 23% | 7.4 | 15 | \$27,646 | 88% | 0.7 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Grocery | Cooling Central | Early | ton | 154,988 | 23% | 12.2 | 15 | \$302,924 | 88% | 0.1 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Grocery | Cooling Central | New | ton | 140,275 | 14% | 7.0 | 15 | \$115,432 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Grocery | Cooling Central | ROB | ton | 154,988 | 23% | 12.2 | 15 | \$115,432 | 88% | 0.3 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Grocery | Cooling Central | Early | ton | 185,985 | 23% | 14.6 | 15 | \$350,154 | 88% | 0.1 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Grocery | Cooling Central | New | ton | 168,330 | 14% | 8.5 | 15 | \$120,406 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Grocery | Cooling Central | ROB | ton | 185,985 | 23% | 14.6 | 15 | \$120,406 | 88% | 0.3 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Grocery | Cooling Central | Early | ton | 41,225 | 29% | 4.2 | 15 | \$83,632 | 88% | 0.1 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Grocery | Cooling Central | New | ton | 32,011 | 8.9% | 1.0 | 15 | \$40,211 | 88% | 0.1 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Grocery | Cooling Central | ROB | ton | 41,225 | 29% | 4.2 | 15 | \$40,211 | 88% | 0.3 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Grocery | Cooling Central | Early | ton | 70,835 | 35% | 8.6 | 15 | \$132,173 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Grocery | Cooling Central | New | ton | 52,831 | 13% | 2.3 | 15 | \$39,556 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Grocery | Cooling Central | ROB | ton | 52,831 | 13% | 2.3 | 15 | \$39,556 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Grocery | Cooling Central | Early | ton | 118,265 | 39% | 16.1 | 15 | \$187,029 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Grocery | Cooling Central | New | ton | 84,321 | 15% | 4.3 | 15 | \$33,554 | 88% | 0.3 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Grocery | Cooling Central | ROB | ton | 118,265 | 39% | 16.1 | 15 | \$33,554 | 88% | 1.3 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Grocery | Cooling Central | Early | ton | 20,695 | 30% | 2.1 | 15 | \$32,398 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Grocery | Cooling Central | New | ton | 16,396 | 11% | 0.6 | 15 | \$7,188 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Grocery | Cooling Central | ROB | ton | 20,695 | 30% | 2.1 | 15 | \$7,188 | 88% | 0.8 |
| DLC | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Grocery | Cooling Central | Existing | building | 3,121 | 1.1% | 0.01 | 10 | \$94,032 | 81% | 0.0 |
| DLC | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Grocery | Cooling Central | New | building | 3,121 | 1.1% | 0.01 | 10 | \$94,032 | 81% | 0.0 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Grocery | Cooling Central | Existing | building | 3,121 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.2 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Grocery | Cooling Central | New | building | 3,121 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.3 |
| DLC | Re-Commissioning (Existing Construction) | No Re-Commissioning | Grocery | Cooling Central | Existing | building | 3,121 | 16% | 0.2 | 5 | \$19,254 | 86% | 0.0 |
| DLC | Wall Insultions (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Grocery | Cooling Central | Existing | building | 3,121 | 19% | 0.2 | 15 | \$7,224 | 26% | 0.1 |
| DLC | Wall Insultions (Going upto R 21) | Code minimum Wall Insulations | Grocery | Cooling Central | New | building | 3,121 | 0.5% | 0.01 | 15 | \$5,541 | 94% | 0.0 |
| DLC | <65k BTU/hr 14 SEER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Grocery | Cooling Unitary | Early | ton | 1,951 | 16% | 0.1 | 15 | \$1,545 | 29% | 0.2 |
| DLC | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Grocery | Cooling Unitary | New | ton | 1,767 | 7.1% | 0.05 | 15 | \$339 | 29% | 0.4 |
| DLC | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Grocery | Cooling Unitary | ROB | ton | 1,767 | 7.1% | 0.05 | 15 | \$339 | 29% | 0.4 |
| DLC | <65k BTU/hr 15 SEER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Grocery | Cooling Unitary | Early | ton | 1,951 | 22% | 0.2 | 15 | \$1,821 | 30% | 0.2 |
| DLC | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Grocery | Cooling Unitary | New | ton | 1,767 | 13% | 0.10 | 15 | \$714 | 30% | 0.3 |
| DLC | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Grocery | Cooling Unitary | ROB | ton | 1,767 | 13% | 0.10 | 15 | \$714 | 30% | 0.3 |
| DLC | <65k BTU/hr 16 SEER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Grocery | Cooling Unitary | Early | ton | 1,951 | 26% | 0.2 | 15 | \$2,098 | 31% | 0.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|--|---------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Grocery | Cooling Unitary | New | ton | 1,767 | 19% | 0.1 | 15 | \$1,089 | 31% | 0.3 |
| DLC | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Grocery | Cooling Unitary | ROB | ton | 1,767 | 19% | 0.1 | 15 | \$1,089 | 31% | 0.3 |
| DLC | >760k min 10.2 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Grocery | Cooling Unitary | Early | ton | 49,355 | 3.7% | 0.8 | 15 | \$68,066 | 56% | 0.0 |
| DLC | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Grocery | Cooling Unitary | New | ton | 49,988 | 4.9% | 1.0 | 15 | \$6,231 | 56% | 0.4 |
| DLC | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Grocery | Cooling Unitary | ROB | ton | 49,988 | 4.9% | 1.0 | 15 | \$6,231 | 56% | 0.4 |
| DLC | 135-240k min 12 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Grocery | Cooling Unitary | Early | ton | 12,144 | 18% | 0.9 | 15 | \$18,135 | 79% | 0.1 |
| DLC | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Grocery | Cooling Unitary | New | ton | 11,047 | 10.0% | 0.5 | 15 | \$1,948 | 79% | 0.6 |
| DLC | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Grocery | Cooling Unitary | ROB | ton | 11,047 | 10.0% | 0.5 | 15 | \$1,948 | 79% | 0.6 |
| DLC | 240k-760k min 11 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Grocery | Cooling Unitary | Early | ton | 32,470 | 9.0% | 1.2 | 15 | \$44,809 | 66% | 0.1 |
| DLC | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Grocery | Cooling Unitary | New | ton | 32,551 | 9.3% | 1.3 | 15 | \$4,813 | 66% | 0.6 |
| DLC | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Grocery | Cooling Unitary | ROB | ton | 32,551 | 9.3% | 1.3 | 15 | \$4,813 | 66% | 0.6 |
| DLC | 65k-135k BTU/hr 12 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Grocery | Cooling Unitary | Early | ton | 7,159 | 17% | 0.5 | 15 | \$10,946 | 86% | 0.1 |
| DLC | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Grocery | Cooling Unitary | New | ton | 6,380 | 6.7% | 0.2 | 15 | \$1,392 | 86% | 0.3 |
| DLC | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Grocery | Cooling Unitary | ROB | ton | 6,380 | 6.7% | 0.2 | 15 | \$1,392 | 86% | 0.3 |
| DLC | Adding reflective roof treatment | Std color roof | Grocery | Cooling Unitary | Existing | building | 28,953 | 7.0% | 0.07 | 6 | \$24,149 | 82% | 0.0 |
| DLC | Adding reflective roof treatment | Std color roof | Grocery | Cooling Unitary | New | building | 28,953 | 7.0% | 0.07 | 6 | \$24,149 | 82% | 0.0 |
| DLC | Adding window shade film | No shade film | Grocery | Cooling Unitary | Existing | building | 28,953 | 1.3% | 0.4 | 10 | \$352 | 12% | 1.2 |
| DLC | Adding window shade film | No shade film | Grocery | Cooling Unitary | New | building | 28,953 | 1.3% | 0.4 | 10 | \$352 | 13% | 1.2 |
| DLC | Adding window shade screen | No shade screen | Grocery | Cooling Unitary | Existing | building | 28,953 | 1.1% | 0.01 | 10 | \$136 | 12% | 1.0 |
| DLC | Adding window shade screen | No shade screen | Grocery | Cooling Unitary | New | building | 28,953 | 1.1% | 0.01 | 10 | \$136 | 13% | 1.0 |
| DLC | Automated control system | Manual Controls | Grocery | Cooling Unitary | Existing | building | 28,953 | 17% | 0.2 | 15 | \$31,696 | 51% | 0.1 |
| DLC | Automated control system | Manual Controls | Grocery | Cooling Unitary | New | building | 28,953 | 17% | 0.2 | 15 | \$31,696 | 94% | 0.1 |
| DLC | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Grocery | Cooling Unitary | Existing | building | 28,953 | 9.8% | 0.10 | 15 | \$33,930 | 71% | 0.1 |
| DLC | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Grocery | Cooling Unitary | New | building | 28,953 | 3.3% | 0.03 | 15 | \$32,251 | 94% | 0.0 |
| DLC | Duct Insulation, Add R8 | No Insulation | Grocery | Cooling Unitary | Existing | building | 28,953 | 1.4% | 0.04 | 15 | \$230 | 20% | 1.2 |
| DLC | Duct Insulation, Add R8 | No Insulation | Grocery | Cooling Unitary | New | building | 28,953 | 1.4% | 0.04 | 15 | \$230 | 10% | 1.2 |
| DLC | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Grocery | Cooling Unitary | Existing | building | 15,924 | 13% | 0.1 | 1 | \$153 | 73% | 0.6 |
| DLC | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Grocery | Cooling Unitary | New | building | 15,924 | 13% | 0.1 | 1 | \$153 | 73% | 0.6 |
| DLC | ECM Motors for split systems | Std Shaded Pole Motor | Grocery | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 3.2 |
| DLC | ECM Motors for split systems | Std Shaded Pole Motor | Grocery | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 3.2 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Grocery | Cooling Unitary | Existing | building | 28,953 | 7.1% | 0.07 | 15 | \$128,428 | 25% | 0.0 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Grocery | Cooling Unitary | New | building | 28,953 | 7.1% | 0.07 | 15 | \$128,428 | 35% | 0.0 |
| DLC | Hi Eff HVAC System Design | No HVAC Design | Grocery | Cooling Unitary | New | building | 28,953 | 9.3% | 0.09 | 10 | \$10,942 | 51% | 0.1 |
| DLC | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Grocery | Cooling Unitary | Existing | building | 28,953 | 5.0% | 0.05 | 5 | \$225 | 59% | 1.3 |
| DLC | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Grocery | Cooling Unitary | Existing | building | 28,953 | 0.5% | 0.05 | 5 | \$225 | 51% | 0.2 |
| DLC | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Grocery | Cooling Unitary | New | building | 28,953 | 0.5% | 0.05 | 5 | \$135 | 51% | 0.3 |
| DLC | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Grocery | Cooling Unitary | Existing | building | 28,953 | 1.1% | 0.01 | 10 | \$101,057 | 86% | 0.0 |
| DLC | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Grocery | Cooling Unitary | New | building | 28,953 | 1.1% | 0.01 | 10 | \$101,057 | 86% | 0.0 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) | Grocery | Cooling Unitary | Existing | building | 28,953 | 2.0% | 0.02 | 11 | \$286 | 49% | 1.0 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Grocery | Cooling Unitary | New | building | 28,953 | 1.7% | 0.02 | 11 | \$146 | 49% | 1.6 |
| DLC | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Grocery | Cooling Unitary | Early | unit | 180 | 19% | 0.05 | 15 | \$849 | 85% | 0.1 |
| DLC | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Grocery | Cooling Unitary | New | unit | 182 | 20% | 0.05 | 15 | \$356 | 85% | 0.2 |
| DLC | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Grocery | Cooling Unitary | ROB | unit | 182 | 20% | 0.05 | 15 | \$356 | 85% | 0.2 |
| DLC | Re-Commissioning (Existing Construction) | No Re-Commissioning | Grocery | Cooling Unitary | Existing | building | 28,953 | 16% | 0.2 | 5 | \$19,254 | 86% | 0.0 |
| DLC | Room AC (w/ louvered sides) | Existing efficiency Room AC in Pennsylvania (2000 Federal Standards) | Grocery | Cooling Unitary | Early | ton | 944 | 13% | 0.04 | 9 | \$348 | 82% | 0.2 |
| DLC | Room AC (w/ louvered sides) | Std Room AC (Code Min. Federal Standards) | Grocery | Cooling Unitary | New | ton | 856 | 4.5% | 0.01 | 9 | \$17 | 82% | 1.3 |
| DLC | Room AC (w/ louvered sides) | Std Room AC (Code Min. Federal Standards) | Grocery | Cooling Unitary | ROB | ton | 856 | 4.5% | 0.01 | 9 | \$17 | 82% | 1.3 |
| DLC | Wall Insualtions (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Grocery | Cooling Unitary | Existing | building | 28,953 | 19% | 0.2 | 15 | \$7,224 | 26% | 0.5 |
| DLC | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Grocery | Cooling Unitary | New | building | 28,953 | 0.5% | 0.01 | 15 | \$5,541 | 94% | 0.0 |
| DLC | 80W Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Grocery | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 0% | 0.2 |
| DLC | 80W Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Grocery | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| DLC | 80W Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Grocery | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| DLC | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Grocery | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 1.2 |
| DLC | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Grocery | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.7 |
| DLC | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Grocery | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.7 |
| DLC | LED exterior lighting | 250 Watt Incandescent | Grocery | Ext. Lighting | ROB | measure | 1,456 | 83% | 0.2 | 15 | \$104 | 89% | 8.6 |
| DLC | LED exterior lighting | 250 Watt Incandescent | Grocery | Ext. Lighting | ROB | measure | 1,456 | 83% | 0.2 | 15 | \$104 | 89% | 8.6 |
| DLC | LED exterior lighting | 250 Watt Incandescent | Grocery | Ext. Lighting | ROB | measure | 1,456 | 83% | 0.2 | 15 | \$104 | 89% | 8.6 |
| DLC | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Grocery | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 75% | 0.3 |
| DLC | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Grocery | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 75% | 0.2 |
| DLC | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Grocery | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 3.1 |
| DLC | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Grocery | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.3 |
| DLC | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Grocery | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 3.1 |
| DLC | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Grocery | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|---|---------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Photocell Controls (Outdoor) | Lighting w/ No Controls | Grocery | Ext. Lighting | Existing | building | 380 | 28% | 0.3 | 8 | \$1,459 | 88% | 0.1 |
| DLC | Photocell Controls (Outdoor) | Lighting w/ No Controls | Grocery | Ext. Lighting | New | building | 380 | 28% | 0.3 | 8 | \$1,459 | 0% | 0.1 |
| DLC | Adding reflective roof treatment | Std color roof | Grocery | Heat Pump | Existing | building | 2,978 | 6.9% | 0.07 | 6 | \$24,149 | 82% | 0.0 |
| DLC | Adding reflective roof treatment | Std color roof | Grocery | Heat Pump | New | building | 2,978 | 6.9% | 0.07 | 6 | \$24,149 | 82% | 0.0 |
| DLC | Adding window shade film | No shade film | Grocery | Heat Pump | Existing | building | 2,978 | 3.9% | 0.4 | 10 | \$36 | 12% | 8.5 |
| DLC | Adding window shade film | No shade film | Grocery | Heat Pump | New | building | 2,978 | 3.9% | 0.4 | 10 | \$36 | 12% | 8.5 |
| DLC | Adding window shade screen | No shade screen | Grocery | Heat Pump | Existing | building | 2,978 | 0.3% | 0.01 | 10 | \$4.7 | 12% | 2.4 |
| DLC | Adding window shade screen | No shade screen | Grocery | Heat Pump | New | building | 2,978 | 0.3% | 0.01 | 10 | \$4.7 | 12% | 2.4 |
| DLC | Automated control system | Manual Controls | Grocery | Heat Pump | Existing | building | 2,978 | 17% | 0.2 | 15 | \$3,260 | 51% | 0.1 |
| DLC | Automated control system | Manual Controls | Grocery | Heat Pump | New | building | 2,978 | 17% | 0.2 | 15 | \$3,260 | 94% | 0.1 |
| DLC | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Grocery | Heat Pump | Existing | building | 2,978 | 9.8% | 0.10 | 15 | \$33,930 | 71% | 0.0 |
| DLC | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Grocery | Heat Pump | New | building | 2,978 | 3.3% | 0.03 | 15 | \$32,251 | 94% | 0.0 |
| DLC | Duct Insulation, Add R8 | No Insulation | Grocery | Heat Pump | Existing | building | 2,978 | 4.0% | 0.04 | 15 | \$24 | 12% | 4.7 |
| DLC | Duct Insulation, Add R8 | No Insulation | Grocery | Heat Pump | New | building | 2,978 | 4.0% | 0.04 | 15 | \$24 | 6% | 4.7 |
| DLC | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Grocery | Heat Pump | Early | heat pump | 2,534 | 11% | 0.02 | 15 | \$4,070 | 83% | 0.0 |
| DLC | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Grocery | Heat Pump | New | heat pump | 2,445 | 8.0% | 0.02 | 15 | \$1,097 | 83% | 0.1 |
| DLC | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Grocery | Heat Pump | ROB | heat pump | 2,445 | 8.0% | 0.02 | 15 | \$1,097 | 83% | 0.1 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Grocery | Heat Pump | Existing | building | 2,978 | 7.0% | 0.07 | 15 | \$13,209 | 25% | 0.0 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Grocery | Heat Pump | New | building | 2,978 | 7.0% | 0.07 | 15 | \$13,209 | 35% | 0.0 |
| DLC | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Grocery | Heat Pump | Early | heat pump | 25,591 | 13% | 0.3 | 15 | \$91,117 | 19% | 0.0 |
| DLC | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Grocery | Heat Pump | New | heat pump | 24,909 | 11% | 0.2 | 15 | \$33,927 | 19% | 0.1 |
| DLC | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Grocery | Heat Pump | ROB | heat pump | 24,909 | 11% | 0.2 | 15 | \$33,927 | 19% | 0.1 |
| DLC | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Grocery | Heat Pump | Early | heat pump | 25,591 | 13% | 0.3 | 15 | \$58,356 | 19% | 0.0 |
| DLC | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Grocery | Heat Pump | New | heat pump | 24,909 | 11% | 0.2 | 15 | \$1,167 | 19% | 1.6 |
| DLC | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Grocery | Heat Pump | ROB | heat pump | 24,909 | 11% | 0.2 | 15 | \$1,167 | 19% | 1.6 |
| DLC | Hi Eff HVAC System Design | No HVAC Design | Grocery | Heat Pump | New | building | 2,978 | 9.3% | 0.09 | 10 | \$905,299 | 51% | 0.0 |
| DLC | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Grocery | Heat Pump | Early | heat pump | 6,758 | 15% | 0.09 | 12 | \$4,298 | 81% | 0.1 |
| DLC | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Grocery | Heat Pump | New | heat pump | 6,520 | 12% | 0.07 | 12 | \$852 | 81% | 0.5 |
| DLC | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Grocery | Heat Pump | ROB | heat pump | 6,520 | 12% | 0.07 | 12 | \$852 | 81% | 0.5 |
| DLC | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Grocery | Heat Pump | Existing | building | 2,978 | 5.0% | 0.01 | 5 | \$90 | 51% | 0.3 |
| DLC | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Grocery | Heat Pump | New | building | 2,978 | 5.0% | 0.01 | 5 | \$90 | 51% | 0.3 |
| DLC | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Grocery | Heat Pump | Existing | building | 2,978 | 1.1% | 0.01 | 10 | \$89,973 | 81% | 0.0 |
| DLC | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Grocery | Heat Pump | New | building | 2,978 | 1.1% | 0.01 | 10 | \$89,973 | 81% | 0.0 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Grocery | Heat Pump | Existing | building | 2,978 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.2 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Grocery | Heat Pump | New | building | 2,978 | 2.1% | 0.02 | 11 | \$146 | 49% | 0.3 |
| DLC | Re-Commissioning (Existing Construction) | No Re-Commissioning | Grocery | Heat Pump | Existing | building | 2,978 | 16% | 0.2 | 5 | \$19,254 | 86% | 0.0 |
| DLC | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Grocery | Heat Pump | Existing | building | 2,978 | 19% | 0.2 | 15 | \$7,224 | 26% | 0.1 |
| DLC | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Grocery | Heat Pump | New | building | 2,978 | 0.5% | 0.01 | 15 | \$5,541 | 94% | 0.0 |
| DLC | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Grocery | Heat Pump | Early | heat pump | 11,106 | 38% | 0.4 | 15 | \$35,347 | 28% | 0.1 |
| DLC | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Grocery | Heat Pump | New | heat pump | 10,719 | 36% | 0.3 | 15 | \$15,739 | 28% | 0.2 |
| DLC | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Grocery | Heat Pump | ROB | heat pump | 10,719 | 36% | 0.3 | 15 | \$15,739 | 28% | 0.2 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Grocery | High Bay Lighting | Early | Fixture | 1,363 | 9.6% | 0.02 | 13 | \$850 | 39% | 0.1 |
| DLC | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Grocery | High Bay Lighting | Early | Fixture | 1,362 | 9.5% | 0.02 | 13 | \$850 | 28% | 0.1 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Grocery | High Bay Lighting | Early | Fixture | 2,102 | 41% | 0.1 | 13 | \$850 | 36% | 0.7 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Grocery | High Bay Lighting | New | Fixture | 1,036 | 9.6% | 0.02 | 13 | \$372 | 39% | 0.2 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Grocery | High Bay Lighting | New | Fixture | 964 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.1 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Grocery | High Bay Lighting | New | Fixture | 1,597 | 41% | 0.1 | 13 | \$397 | 36% | 1.1 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Grocery | High Bay Lighting | ROB | Fixture | 1,363 | 9.6% | 0.02 | 13 | \$372 | 39% | 0.2 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Grocery | High Bay Lighting | ROB | Fixture | 1,268 | 2.9% | 0.01 | 13 | \$338 | 28% | 0.1 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Grocery | High Bay Lighting | ROB | Fixture | 2,102 | 41% | 0.1 | 13 | \$397 | 28% | 1.5 |
| DLC | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Grocery | High Bay Lighting | Early | Fixture | 2,645 | 19% | 0.09 | 13 | \$851 | 38% | 0.4 |
| DLC | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Grocery | High Bay Lighting | Early | Fixture | 2,678 | 20% | 0.09 | 13 | \$851 | 38% | 0.4 |
| DLC | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | Early | Fixture | 7,791 | 73% | 1.0 | 13 | \$851 | 38% | 4.5 |
| DLC | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Grocery | High Bay Lighting | New | Fixture | 2,010 | 19% | 0.07 | 13 | \$372 | 38% | 0.7 |
| DLC | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | New | Fixture | 5,921 | 73% | 0.7 | 13 | \$383 | 38% | 7.6 |
| DLC | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Grocery | High Bay Lighting | ROB | Fixture | 2,645 | 19% | 0.09 | 13 | \$372 | 38% | 0.9 |
| DLC | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | ROB | Fixture | 7,791 | 73% | 1.0 | 13 | \$383 | 38% | 10.0 |
| DLC | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Grocery | High Bay Lighting | Early | Fixture | 2,645 | 25% | 0.1 | 13 | \$554 | 29% | 0.8 |
| DLC | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Grocery | High Bay Lighting | Early | Fixture | 2,597 | 23% | 0.1 | 13 | \$554 | 28% | 0.7 |
| DLC | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | Early | Fixture | 7,791 | 74% | 1.0 | 13 | \$554 | 36% | 7.1 |
| DLC | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Grocery | High Bay Lighting | New | Fixture | 2,010 | 25% | 0.09 | 13 | \$75 | 29% | 4.5 |
| DLC | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | New | Fixture | 5,921 | 74% | 0.8 | 13 | \$86 | 36% | 34.8 |
| DLC | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Grocery | High Bay Lighting | ROB | Fixture | 2,645 | 25% | 0.1 | 13 | \$75 | 29% | 5.9 |
| DLC | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | ROB | Fixture | 7,791 | 74% | 1.0 | 13 | \$86 | 36% | 45.8 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|---|---------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Grocery | High Bay Lighting | Early | Fixture | 690 | 0.2% | 0.00 | 13 | \$835 | 38% | 0.0 |
| DLC | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Grocery | High Bay Lighting | Early | Fixture | 1,486 | 54% | 0.1 | 13 | \$835 | 38% | 0.6 |
| DLC | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Grocery | High Bay Lighting | New | Fixture | 1,129 | 54% | 0.1 | 13 | \$382 | 38% | 1.1 |
| DLC | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Grocery | High Bay Lighting | ROB | Fixture | 1,486 | 54% | 0.1 | 13 | \$382 | 38% | 1.4 |
| DLC | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Grocery | High Bay Lighting | Early | Fixture | 3,370 | 18% | 0.1 | 13 | \$487 | 25% | 0.9 |
| DLC | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Grocery | High Bay Lighting | Early | Fixture | 3,524 | 22% | 0.1 | 13 | \$487 | 28% | 1.1 |
| DLC | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | Early | Fixture | 7,791 | 65% | 0.9 | 13 | \$487 | 36% | 7.0 |
| DLC | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Grocery | High Bay Lighting | New | Fixture | 2,561 | 18% | 0.08 | 13 | \$16 | 25% | 19.5 |
| DLC | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | New | Fixture | 5,921 | 65% | 0.7 | 13 | \$18 | 36% | 141.0 |
| DLC | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Grocery | High Bay Lighting | ROB | Fixture | 3,370 | 18% | 0.1 | 13 | \$16 | 25% | 25.6 |
| DLC | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | ROB | Fixture | 7,791 | 65% | 0.9 | 13 | \$18 | 36% | 185.5 |
| DLC | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Grocery | High Bay Lighting | Early | Fixture | 3,370 | 1.5% | 0.01 | 13 | \$557 | 19% | 0.1 |
| DLC | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Grocery | High Bay Lighting | Early | Fixture | 3,469 | 4.3% | 0.03 | 13 | \$557 | 19% | 0.2 |
| DLC | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | Early | Fixture | 7,791 | 57% | 0.8 | 13 | \$557 | 19% | 5.4 |
| DLC | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Grocery | High Bay Lighting | New | Fixture | 2,561 | 1.5% | 0.01 | 13 | \$86 | 19% | 0.3 |
| DLC | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | New | Fixture | 5,921 | 57% | 0.6 | 13 | \$88 | 19% | 26.1 |
| DLC | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Grocery | High Bay Lighting | ROB | Fixture | 3,370 | 1.5% | 0.01 | 13 | \$86 | 19% | 0.4 |
| DLC | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | ROB | Fixture | 7,791 | 57% | 0.8 | 13 | \$88 | 19% | 34.3 |
| DLC | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Grocery | High Bay Lighting | Early | Fixture | 1,431 | 29% | 0.05 | 13 | \$492 | 71% | 0.5 |
| DLC | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Grocery | High Bay Lighting | Early | Fixture | 1,197 | 15% | 0.02 | 13 | \$492 | 95% | 0.2 |
| DLC | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Grocery | High Bay Lighting | Early | Fixture | 1,778 | 43% | 0.09 | 13 | \$492 | 95% | 1.0 |
| DLC | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Grocery | High Bay Lighting | Early | Fixture | 1,648 | 38% | 0.08 | 13 | \$492 | 95% | 0.8 |
| DLC | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Grocery | High Bay Lighting | New | Fixture | 909 | 15% | 0.02 | 13 | \$25 | 95% | 3.5 |
| DLC | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Grocery | High Bay Lighting | New | Fixture | 1,351 | 43% | 0.07 | 13 | \$51 | 95% | 7.1 |
| DLC | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Grocery | High Bay Lighting | ROB | Fixture | 1,197 | 15% | 0.02 | 13 | \$25 | 95% | 4.6 |
| DLC | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Grocery | High Bay Lighting | ROB | Fixture | 1,778 | 43% | 0.09 | 13 | \$51 | 95% | 9.4 |
| DLC | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Grocery | High Bay Lighting | Early | lamp | 155 | 16% | 0.00 | 7 | \$7.7 | 99% | 1.1 |
| DLC | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Grocery | High Bay Lighting | New | lamp | 92 | 13% | 0.00 | 7 | \$1.6 | 91% | 2.4 |
| DLC | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Grocery | High Bay Lighting | ROB | lamp | 149 | 13% | 0.00 | 7 | \$1.6 | 91% | 3.9 |
| DLC | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Grocery | High Bay Lighting | Early | Fixture | 7,972 | 23% | 0.3 | 13 | \$613 | 5% | 2.0 |
| DLC | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Grocery | High Bay Lighting | Early | Fixture | 6,263 | 1.6% | 0.02 | 13 | \$613 | 28% | 0.1 |
| DLC | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | Early | Fixture | 15,582 | 60% | 1.6 | 13 | \$613 | 18% | 10.4 |
| DLC | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Grocery | High Bay Lighting | New | Fixture | 6,059 | 23% | 0.2 | 13 | \$96 | 5% | 9.7 |
| DLC | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Grocery | High Bay Lighting | ROB | Fixture | 7,972 | 23% | 0.3 | 13 | \$96 | 5% | 12.7 |
| DLC | 85W Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Grocery | High Bay Lighting | Early | Fixture | 7,972 | 92% | 1.3 | 13 | \$1,916 | 95% | 2.6 |
| DLC | 85W Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | Early | Fixture | 15,582 | 96% | 2.6 | 13 | \$1,916 | 95% | 5.3 |
| DLC | 85W Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Grocery | High Bay Lighting | New | Fixture | 6,059 | 92% | 1.0 | 13 | \$1,468 | 95% | 2.6 |
| DLC | 85W Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | New | Fixture | 11,842 | 96% | 2.0 | 13 | \$1,149 | 95% | 6.7 |
| DLC | 85W Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Grocery | High Bay Lighting | ROB | Fixture | 7,972 | 92% | 1.3 | 13 | \$1,468 | 95% | 3.4 |
| DLC | 85W Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | ROB | Fixture | 15,582 | 96% | 2.6 | 13 | \$1,149 | 95% | 8.8 |
| DLC | Auto Off Time Switch | Lighting w/ No Controls | Grocery | High Bay Lighting | Existing | building | 3,379 | 24% | 0.2 | 8 | \$296 | 13% | 1.3 |
| DLC | Auto Off Time Switch | Lighting w/ No Controls | Grocery | High Bay Lighting | New | building | 3,379 | 6.9% | 0.07 | 8 | \$296 | 0% | 0.4 |
| DLC | Central Lighting Control System | Lighting w/ No Controls | Grocery | High Bay Lighting | Existing | building | 3,379 | 38% | 0.4 | 8 | \$296 | 13% | 2.0 |
| DLC | Central Lighting Control System | Lighting w/ No Controls | Grocery | High Bay Lighting | New | building | 3,379 | 14% | 0.1 | 8 | \$296 | 13% | 0.7 |
| DLC | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Grocery | High Bay Lighting | New | building | 3,379 | 10.0% | 0.1 | 15 | \$69,961 | 32% | 0.0 |
| DLC | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Grocery | High Bay Lighting | New | building | 3,379 | 15% | 0.2 | 15 | \$174,902 | 32% | 0.0 |
| DLC | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Grocery | High Bay Lighting | New | building | 3,379 | 30% | 0.3 | 15 | \$250,693 | 32% | 0.0 |
| DLC | Indoor Daylight Sensors | Lighting w/ No Controls | Grocery | High Bay Lighting | Existing | building | 3,379 | 28% | 0.3 | 8 | \$1,459 | 13% | 0.3 |
| DLC | Indoor Daylight Sensors | Lighting w/ No Controls | Grocery | High Bay Lighting | New | building | 3,379 | 4.0% | 0.04 | 8 | \$1,459 | 0% | 0.0 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 365 W High Pressure Sodium Fixture | Grocery | High Bay Lighting | Early | Fixture | 2,645 | 67% | 0.3 | 13 | \$960 | 95% | 1.2 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 1075 W Mercury Vapor Fixture | Grocery | High Bay Lighting | Early | Fixture | 7,791 | 89% | 1.2 | 13 | \$960 | 95% | 4.9 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 295 W Metal Halide Fixture | Grocery | High Bay Lighting | Early | Fixture | 2,138 | 59% | 0.2 | 13 | \$960 | 95% | 0.9 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 365 W High Pressure Sodium Fixture | Grocery | High Bay Lighting | New | Fixture | 2,010 | 67% | 0.2 | 13 | \$480 | 95% | 1.9 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 1075 W Mercury Vapor Fixture | Grocery | High Bay Lighting | New | Fixture | 5,921 | 89% | 0.9 | 13 | \$491 | 95% | 7.2 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 295 W Metal Halide Fixture | Grocery | High Bay Lighting | New | Fixture | 1,625 | 59% | 0.2 | 13 | \$406 | 95% | 1.6 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 365 W High Pressure Sodium Fixture | Grocery | High Bay Lighting | ROB | Fixture | 2,645 | 67% | 0.3 | 13 | \$480 | 95% | 2.5 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 1075 W Mercury Vapor Fixture | Grocery | High Bay Lighting | ROB | Fixture | 7,791 | 89% | 1.2 | 13 | \$491 | 95% | 9.5 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 295 W Metal Halide Fixture | Grocery | High Bay Lighting | ROB | Fixture | 2,138 | 59% | 0.2 | 13 | \$406 | 95% | 2.1 |
| DLC | Occupancy Sensor | Lighting w/ No Controls | Grocery | High Bay Lighting | Existing | building | 3,379 | 24% | 0.2 | 8 | \$447 | 12% | 0.9 |
| DLC | Occupancy Sensor | Lighting w/ No Controls | Grocery | High Bay Lighting | New | building | 3,379 | 6.9% | 0.07 | 8 | \$447 | 0% | 0.2 |
| DLC | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Grocery | High Bay Lighting | Existing | building | 3,379 | 28% | 0.3 | 8 | \$1,459 | 12% | 0.3 |
| DLC | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Grocery | High Bay Lighting | New | building | 3,379 | 4.0% | 0.04 | 8 | \$1,459 | 0% | 0.0 |
| DLC | Time Clock Control | Lighting w/ No Controls | Grocery | High Bay Lighting | Existing | building | 3,379 | 28% | 0.3 | 8 | \$296 | 13% | 1.5 |
| DLC | Time Clock Control | Lighting w/ No Controls | Grocery | High Bay Lighting | New | building | 3,379 | 4.0% | 0.04 | 8 | \$296 | 0% | 0.2 |
| DLC | Auto Off Time Switch | Lighting w/ No Controls | Grocery | Lin. Fluor. Lighting | Existing | building | 26,987 | 24% | 0.2 | 8 | \$296 | 13% | 6.9 |
| DLC | Auto Off Time Switch | Lighting w/ No Controls | Grocery | Lin. Fluor. Lighting | New | building | 26,987 | 7.0% | 0.07 | 8 | \$296 | 0% | 2.0 |
| DLC | Central Lighting Control System | Lighting w/ No Controls | Grocery | Lin. Fluor. Lighting | Existing | building | 26,987 | 38% | 0.4 | 8 | \$296 | 12% | 11.0 |
| DLC | Central Lighting Control System | Lighting w/ No Controls | Grocery | Lin. Fluor. Lighting | New | building | 26,987 | 14% | 0.1 | 8 | \$296 | 12% | 4.0 |
| DLC | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Grocery | Lin. Fluor. Lighting | New | building | 26,987 | 10% | 0.1 | 15 | \$69,961 | 32% | 0.0 |
| DLC | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Grocery | Lin. Fluor. Lighting | New | building | 26,987 | 15% | 0.2 | 15 | \$174,902 | 32% | 0.0 |
| DLC | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Grocery | Lin. Fluor. Lighting | New | building | 26,987 | 30% | 0.3 | 15 | \$250,693 | 32% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|--|---------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Grocery | Lin. Fluor. Lighting | Early | Lamp | 312 | 38% | 0.02 | 7 | \$7.3 | 94% | 5.2 |
| DLC | Indoor Daylight Sensors | Lighting w/ No Controls | Grocery | Lin. Fluor. Lighting | Existing | building | 26,987 | 28% | 0.3 | 8 | \$1,459 | 13% | 1.6 |
| DLC | Indoor Daylight Sensors | Lighting w/ No Controls | Grocery | Lin. Fluor. Lighting | New | building | 26,987 | 4.1% | 0.04 | 8 | \$1,459 | 0% | 0.2 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 28W T8 Lamp, Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | Early | Lamp | 165 | 19% | 0.01 | 8 | \$35 | 94% | 0.4 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 40W T12 Lamp, Magnetic Ballast | Grocery | Lin. Fluor. Lighting | Early | Lamp | 363 | 63% | 0.04 | 8 | \$35 | 94% | 2.6 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 28W T5 Lamp, Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | Early | Lamp | 204 | 34% | 0.01 | 8 | \$35 | 94% | 0.8 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 32W T8 Lamp, Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | Early | Lamp | 197 | 32% | 0.01 | 8 | \$35 | 94% | 0.7 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 28W T8 Lamp, Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | New | Lamp | 126 | 19% | 0.01 | 8 | \$28 | 94% | 0.3 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 32W T8 Lamp, Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | New | Lamp | 150 | 32% | 0.01 | 8 | \$29 | 94% | 0.7 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 28W T5 Lamp, Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | New | Lamp | 155 | 34% | 0.01 | 8 | \$22 | 94% | 1.0 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 32W T8 Lamp, Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | New | Lamp | 150 | 32% | 0.01 | 8 | \$29 | 94% | 0.7 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 28W T8 Lamp, Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | ROB | Lamp | 165 | 19% | 0.01 | 8 | \$28 | 94% | 0.5 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 32W T8 Lamp, Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | ROB | Lamp | 197 | 32% | 0.01 | 8 | \$29 | 94% | 0.9 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 28W T5 Lamp, Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | ROB | Lamp | 204 | 34% | 0.01 | 8 | \$22 | 94% | 1.3 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 32W T8 Lamp, Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | ROB | Lamp | 197 | 32% | 0.01 | 8 | \$29 | 94% | 0.9 |
| DLC | Occupancy Sensor | Lighting w/ No Controls | Grocery | Lin. Fluor. Lighting | Existing | building | 26,987 | 24% | 0.2 | 8 | \$447 | 13% | 4.6 |
| DLC | Occupancy Sensor | Lighting w/ No Controls | Grocery | Lin. Fluor. Lighting | New | building | 26,987 | 7.0% | 0.07 | 8 | \$447 | 0% | 1.3 |
| DLC | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Grocery | Lin. Fluor. Lighting | Existing | building | 26,987 | 28% | 0.3 | 8 | \$1,459 | 12% | 1.6 |
| DLC | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Grocery | Lin. Fluor. Lighting | New | building | 26,987 | 4.1% | 0.04 | 8 | \$1,459 | 0% | 0.2 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 40W T12 w/ Magnetic Ballast | Grocery | Lin. Fluor. Lighting | Early | Lamp | 312 | 54% | 0.03 | 7 | \$9.1 | 94% | 6.0 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | Early | Lamp | 200 | 28% | 0.01 | 7 | \$9.1 | 24% | 2.0 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | Early | Lamp | 194 | 26% | 0.01 | 7 | \$9.1 | 94% | 1.8 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | New | Lamp | 147 | 26% | 0.01 | 7 | \$2.5 | 94% | 4.9 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | New | Lamp | 147 | 26% | 0.01 | 7 | \$2.5 | 94% | 4.9 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | New | Lamp | 152 | 28% | 0.01 | 7 | \$2.5 | 24% | 5.5 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | New | Lamp | 147 | 26% | 0.01 | 7 | \$2.5 | 94% | 4.9 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | ROB | Lamp | 194 | 26% | 0.01 | 7 | \$2.5 | 94% | 6.4 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | ROB | Lamp | 194 | 26% | 0.01 | 7 | \$2.5 | 94% | 6.4 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | ROB | Lamp | 200 | 28% | 0.01 | 7 | \$2.5 | 24% | 7.2 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | ROB | Lamp | 194 | 26% | 0.01 | 7 | \$2.5 | 94% | 6.4 |
| DLC | T8 Lamp (any length) Electronic Ballast | Standard T12 lamp (any length) | Grocery | Lin. Fluor. Lighting | Early | Lamp | 367 | 42% | 0.02 | 7 | \$14 | 94% | 3.6 |
| DLC | Time Clock Control | Lighting w/ No Controls | Grocery | Lin. Fluor. Lighting | Existing | building | 26,987 | 28% | 0.3 | 8 | \$296 | 14% | 8.1 |
| DLC | Time Clock Control | Lighting w/ No Controls | Grocery | Lin. Fluor. Lighting | New | building | 26,987 | 4.1% | 0.04 | 8 | \$296 | 0% | 1.2 |
| DLC | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | Early | motor | 4,517 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.3 |
| DLC | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | Early | motor | 4,517 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.3 |
| DLC | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | Early | motor | 4,517 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.3 |
| DLC | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | Early | motor | 4,517 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.3 |
| DLC | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | Early | motor | 4,517 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.3 |
| DLC | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | New | motor | 4,379 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.4 |
| DLC | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | New | motor | 4,379 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.4 |
| DLC | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | New | motor | 4,379 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.4 |
| DLC | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | New | motor | 4,379 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.4 |
| DLC | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | New | motor | 4,379 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.4 |
| DLC | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | ROB | motor | 4,379 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.4 |
| DLC | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | ROB | motor | 4,379 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.4 |
| DLC | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | ROB | motor | 4,379 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.4 |
| DLC | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | ROB | motor | 4,379 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.4 |
| DLC | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | ROB | motor | 4,379 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.4 |
| DLC | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | Early | motor | 6,660 | 3.0% | 0.03 | 15 | \$402 | 76% | 0.4 |
| DLC | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | Early | motor | 6,660 | 3.0% | 0.03 | 15 | \$402 | 76% | 0.4 |
| DLC | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | Early | motor | 6,660 | 3.0% | 0.03 | 15 | \$402 | 76% | 0.4 |
| DLC | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | Early | motor | 6,660 | 3.0% | 0.03 | 15 | \$402 | 76% | 0.4 |
| DLC | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | Early | motor | 6,660 | 3.0% | 0.03 | 15 | \$402 | 76% | 0.4 |
| DLC | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | New | motor | 6,493 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.5 |
| DLC | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | New | motor | 6,493 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.4 |
| DLC | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | New | motor | 6,493 | 0.6% | 0.01 | 15 | \$60 | 76% | 0.5 |
| DLC | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | New | motor | 6,493 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.4 |
| DLC | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | New | motor | 6,493 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.4 |
| DLC | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | ROB | motor | 6,493 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.5 |
| DLC | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | ROB | motor | 6,493 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.5 |
| DLC | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | ROB | motor | 6,493 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.4 |
| DLC | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | ROB | motor | 6,493 | 0.6% | 0.01 | 15 | \$60 | 76% | 0.5 |
| DLC | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | ROB | motor | 6,493 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.4 |
| DLC | 100 HP Motor, Ultra-PE | 100 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | Early | motor | 397,180 | 1.7% | 0.9 | 15 | \$5,100 | 47% | 0.9 |
| DLC | 100 HP Motor, Ultra-PE | 100 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | Early | motor | 397,180 | 1.7% | 0.9 | 15 | \$5,100 | 47% | 0.9 |
| DLC | 100 HP Motor, Ultra-PE | 100 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | Early | motor | 397,180 | 1.7% | 0.9 | 15 | \$5,100 | 47% | 0.9 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|---|---------|---------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | New | motor | 295,593 | 0.5% | 0.2 | 15 | \$554 | 61% | 2.0 |
| DLC | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | ROB | motor | 295,593 | 0.5% | 0.2 | 15 | \$554 | 61% | 2.0 |
| DLC | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | ROB | motor | 295,593 | 0.5% | 0.2 | 15 | \$554 | 61% | 2.0 |
| DLC | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | ROB | motor | 295,593 | 0.5% | 0.2 | 15 | \$554 | 61% | 2.0 |
| DLC | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | ROB | motor | 295,593 | 0.5% | 0.2 | 15 | \$554 | 61% | 2.1 |
| DLC | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | ROB | motor | 295,593 | 0.5% | 0.2 | 15 | \$554 | 61% | 2.0 |
| DLC | ASD HVAC Fan | Std. HVAC Fan | Grocery | Motors | New | measure | 2,699 | 9.1% | 0.03 | 15 | \$49,801 | 85% | 0.0 |
| DLC | ASD HVAC Fan | Std. HVAC Fan | Grocery | Motors | ROB | measure | 2,699 | 9.1% | 0.03 | 15 | \$49,801 | 85% | 0.0 |
| DLC | Downsizing motor during retrofit | Larger hp standard motor | Grocery | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 24.9 |
| DLC | Downsizing motor during retrofit | Larger hp standard motor | Grocery | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 25.4 |
| DLC | Downsizing motor during retrofit | Larger hp standard motor | Grocery | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 26.1 |
| DLC | Downsizing motor during retrofit | Larger hp standard motor | Grocery | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 26.8 |
| DLC | Downsizing motor during retrofit | Larger hp standard motor | Grocery | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 27.2 |
| DLC | Downsizing motor during retrofit | Larger hp standard motor | Grocery | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 24.6 |
| DLC | Downsizing motor during retrofit | Larger hp standard motor | Grocery | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 25.6 |
| DLC | Downsizing motor during retrofit | Larger hp standard motor | Grocery | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 25.8 |
| DLC | Downsizing motor during retrofit | Larger hp standard motor | Grocery | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 26.8 |
| DLC | Downsizing motor during retrofit | Larger hp standard motor | Grocery | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 27.1 |
| DLC | Escalator Motor Controller | Constant power control | Grocery | Motors | New | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 22% | 6.9 |
| DLC | Escalator Motor Controller | Constant power control | Grocery | Motors | ROB | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 22% | 6.9 |
| DLC | Variable Speed Drive Control, 15HP | Existing Motors w/out VSD Drive | Grocery | Motors | Early | motor | 61,717 | 70% | 6.3 | 15 | \$731 | 86% | 44.0 |
| DLC | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Grocery | Motors | New | motor | 60,390 | 72% | 6.4 | 15 | \$731 | 86% | 44.0 |
| DLC | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Grocery | Motors | ROB | motor | 60,390 | 72% | 6.4 | 15 | \$731 | 86% | 44.0 |
| DLC | Variable Speed Drive Control, 40HP | Existing Motors w/out VSD Drive | Grocery | Motors | Early | motor | 161,040 | 71% | 16.8 | 15 | \$4,666 | 86% | 18.2 |
| DLC | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Grocery | Motors | New | motor | 159,157 | 71% | 16.7 | 15 | \$4,666 | 86% | 18.1 |
| DLC | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Grocery | Motors | ROB | motor | 159,157 | 71% | 16.7 | 15 | \$4,666 | 86% | 18.1 |
| DLC | Variable Speed Drive Control, 5HP | Existing Motors w/out VFD Drive | Grocery | Motors | Early | motor | 21,395 | 72% | 2.3 | 15 | \$2,243 | 86% | 5.1 |
| DLC | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Grocery | Motors | New | motor | 20,917 | 72% | 2.2 | 15 | \$2,243 | 86% | 5.0 |
| DLC | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Grocery | Motors | ROB | motor | 20,917 | 71% | 2.2 | 15 | \$2,243 | 86% | 5.0 |
| DLC | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Grocery | Motors | Early | motor | 3,452 | 32% | 0.1 | 15 | \$268 | 86% | 3.0 |
| DLC | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Grocery | Motors | New | motor | 3,452 | 32% | 0.1 | 15 | \$268 | 86% | 3.0 |
| DLC | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Grocery | Motors | ROB | motor | 3,452 | 32% | 0.1 | 15 | \$268 | 86% | 3.0 |
| DLC | VFD on Chilled Water Pump | Motor w/out VFD Drive | Grocery | Motors | Early | motor | 16,590 | 55% | 2.7 | 15 | \$2,903 | 86% | 2.8 |
| DLC | VFD on Chilled Water Pump | Motor w/out VFD Drive | Grocery | Motors | New | motor | 16,280 | 55% | 2.7 | 15 | \$2,843 | 86% | 2.8 |
| DLC | VFD on Chilled Water Pump | Motor w/out VFD Drive | Grocery | Motors | ROB | motor | 16,280 | 55% | 2.7 | 15 | \$2,843 | 86% | 2.8 |
| DLC | VFD on Condenser Water Pump | Motor w/out VFD Drive | Grocery | Motors | Early | motor | 18,641 | 32% | 3.2 | 15 | \$2,903 | 86% | 2.3 |
| DLC | VFD on Condenser Water Pump | Motor w/out VFD Drive | Grocery | Motors | New | motor | 18,292 | 33% | 3.1 | 15 | \$2,843 | 86% | 2.3 |
| DLC | VFD on Condenser Water Pump | Motor w/out VFD Drive | Grocery | Motors | ROB | motor | 18,292 | 33% | 3.1 | 15 | \$2,843 | 86% | 2.3 |
| DLC | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Grocery | Motors | Early | motor | 27,718 | 56% | 0.00 | 15 | \$2,903 | 86% | 3.2 |
| DLC | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Grocery | Motors | New | motor | 27,199 | 57% | 0.00 | 15 | \$2,843 | 86% | 3.3 |
| DLC | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Grocery | Motors | ROB | motor | 27,199 | 57% | 0.00 | 15 | \$2,843 | 86% | 3.3 |
| DLC | VFD on HVAC Fan | Motor w/out VFD | Grocery | Motors | Early | motor | 18,724 | 70% | 3.4 | 15 | \$2,903 | 86% | 3.9 |
| DLC | VFD on HVAC Fan | Motor w/out VFD | Grocery | Motors | New | motor | 18,373 | 72% | 3.3 | 15 | \$2,843 | 86% | 3.9 |
| DLC | VFD on HVAC Fan | Motor w/out VFD | Grocery | Motors | ROB | motor | 18,373 | 71% | 3.3 | 15 | \$2,843 | 86% | 3.9 |
| DLC | Variable Speed Drives on Process Equipment | Constant speed control | Grocery | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 11.4 |
| DLC | Variable Speed Drives on Process Equipment | Constant speed control | Grocery | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 11.4 |
| DLC | 9W Exit Sign Retrofit: CFL replacing Incandescent | One 23W Single Sided Incandescent Exit Sign | Grocery | Other Int. Lighting | Early | exit sign | 134 | 42% | 0.01 | 15 | \$48 | 22% | 0.9 |
| DLC | Auto Off Time Switch | Lighting w/ No Controls | Grocery | Other Int. Lighting | Existing | building | 24,020 | 24% | 0.2 | 8 | \$296 | 13% | 6.2 |
| DLC | Auto Off Time Switch | Lighting w/ No Controls | Grocery | Other Int. Lighting | New | building | 24,020 | 7.0% | 0.07 | 8 | \$296 | 0% | 1.8 |
| DLC | Central Lighting Control System | Lighting w/ No Controls | Grocery | Other Int. Lighting | Existing | building | 24,020 | 38% | 0.4 | 8 | \$296 | 13% | 9.9 |
| DLC | Central Lighting Control System | Lighting w/ No Controls | Grocery | Other Int. Lighting | New | building | 24,020 | 14% | 0.1 | 8 | \$296 | 13% | 3.6 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 40W Incandescent Bulb | Grocery | Other Int. Lighting | Early | lamp | 382 | 87% | 0.06 | 4 | \$30 | 14% | 2.2 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Grocery | Other Int. Lighting | Early | lamp | 274 | 81% | 0.04 | 4 | \$30 | 11% | 1.5 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Grocery | Other Int. Lighting | New | lamp | 208 | 81% | 0.03 | 4 | \$21 | 14% | 1.6 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Grocery | Other Int. Lighting | New | lamp | 208 | 81% | 0.03 | 4 | \$23 | 14% | 1.5 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Grocery | Other Int. Lighting | New | lamp | 208 | 81% | 0.03 | 4 | \$22 | 11% | 1.5 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Grocery | Other Int. Lighting | ROB | lamp | 274 | 81% | 0.04 | 4 | \$21 | 14% | 2.1 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Grocery | Other Int. Lighting | ROB | lamp | 274 | 81% | 0.04 | 4 | \$23 | 14% | 2.0 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Grocery | Other Int. Lighting | ROB | lamp | 274 | 81% | 0.04 | 4 | \$22 | 11% | 2.0 |
| DLC | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Grocery | Other Int. Lighting | Early | lamp | 382 | 75% | 0.05 | 2 | \$73 | 24% | 0.4 |
| DLC | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Grocery | Other Int. Lighting | New | fixture | 416 | 65% | 0.05 | 13 | \$29 | 28% | 6.4 |
| DLC | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Grocery | Other Int. Lighting | New | lamp | 208 | 65% | 0.02 | 2 | \$29 | 28% | 0.5 |
| DLC | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Grocery | Other Int. Lighting | ROB | fixture | 547 | 65% | 0.06 | 13 | \$29 | 24% | 8.4 |
| DLC | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Grocery | Other Int. Lighting | ROB | lamp | 274 | 65% | 0.03 | 2 | \$29 | 24% | 0.7 |
| DLC | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Grocery | Other Int. Lighting | Early | lamp | 382 | 75% | 0.05 | 2 | \$3.2 | 24% | 9.5 |
| DLC | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Grocery | Other Int. Lighting | New | lamp | 208 | 65% | 0.02 | 2 | \$1.8 | 24% | 8.0 |
| DLC | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Grocery | Other Int. Lighting | ROB | lamp | 274 | 65% | 0.03 | 2 | \$1.8 | 24% | 10.6 |
| DLC | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Grocery | Other Int. Lighting | ROB | lamp | 274 | 65% | 0.03 | 2 | \$1.8 | 24% | 10.6 |
| DLC | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Grocery | Other Int. Lighting | New | building | 24,020 | 10% | 0.1 | 15 | \$69,961 | 32% | 0.0 |
| DLC | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Grocery | Other Int. Lighting | New | building | 24,020 | 15% | 0.2 | 15 | \$174,902 | 32% | 0.0 |
| DLC | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Grocery | Other Int. Lighting | New | building | 24,020 | 30% | 0.3 | 15 | \$250,693 | 32% | 0.0 |
| DLC | Indoor Daylight Sensors | Lighting w/ No Controls | Grocery | Other Int. Lighting | Existing | building | 24,020 | 28% | 0.3 | 8 | \$1,459 | 13% | 1.5 |
| DLC | Indoor Daylight Sensors | Lighting w/ No Controls | Grocery | Other Int. Lighting | New | building | 24,020 | 4.1% | 0.04 | 8 | \$1,459 | 0% | 0.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|---|---------|---------------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | LED Exit Signs Single-sided (5W) | Existing Single-Sided Exit Signs (Average: 16 W) | Grocery | Other Int. Lighting | Early | sign | 153 | 87% | 0.02 | 15 | \$48 | 16% | 2.0 |
| DLC | LED Exit Signs Single-sided (5W) | One 9W Single-Sided CFL Exit Sign | Grocery | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 2.2 |
| DLC | LED Exit Signs Single-sided (5W) | One 9W Single-Sided CFL Exit Sign | Grocery | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 2.2 |
| DLC | LED Task Lighting/Screw-In (10W) | 1 15W CFL bulb | Grocery | Other Int. Lighting | Early | lamp | 115 | 33% | 0.01 | 3 | \$9.6 | 24% | 0.6 |
| DLC | LED Task Lighting/Screw-In (10W) | 1 60W Incandescent Bulb | Grocery | Other Int. Lighting | Early | lamp | 460 | 83% | 0.06 | 3 | \$9.6 | 24% | 6.0 |
| DLC | LED Task Lighting/Screw-In (10W) | 1 43W EISA Compliant bulb | Grocery | Other Int. Lighting | New | lamp | 251 | 77% | 0.03 | 3 | \$7.9 | 24% | 3.6 |
| DLC | LED Task Lighting/Screw-In (10W) | 1 43W EISA Compliant bulb | Grocery | Other Int. Lighting | New | lamp | 251 | 77% | 0.03 | 3 | \$7.9 | 24% | 3.6 |
| DLC | LED Task Lighting/Screw-In (10W) | 1 43W EISA Compliant bulb | Grocery | Other Int. Lighting | ROB | lamp | 330 | 77% | 0.04 | 3 | \$7.9 | 24% | 4.8 |
| DLC | LED Task Lighting/Screw-In (10W) | 1 43W EISA Compliant bulb | Grocery | Other Int. Lighting | ROB | lamp | 330 | 77% | 0.04 | 3 | \$7.9 | 24% | 4.8 |
| DLC | Occupancy Sensor | Lighting w/ No Controls | Grocery | Other Int. Lighting | Existing | building | 24,020 | 24% | 0.2 | 8 | \$447 | 12% | 4.1 |
| DLC | Occupancy Sensor | Lighting w/ No Controls | Grocery | Other Int. Lighting | New | building | 24,020 | 7.0% | 0.07 | 8 | \$447 | 0% | 1.2 |
| DLC | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Grocery | Other Int. Lighting | Existing | building | 24,020 | 28% | 0.3 | 8 | \$1,459 | 12% | 1.5 |
| DLC | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Grocery | Other Int. Lighting | New | building | 24,020 | 4.1% | 0.04 | 8 | \$1,459 | 0% | 0.2 |
| DLC | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Grocery | Other Int. Lighting | Early | exit sign | 134 | 100% | 0.02 | 15 | \$173 | 26% | 0.6 |
| DLC | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Grocery | Other Int. Lighting | New | exit sign | 77 | 100% | 0.01 | 15 | \$148 | 31% | 0.4 |
| DLC | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Grocery | Other Int. Lighting | ROB | exit sign | 77 | 100% | 0.01 | 15 | \$148 | 26% | 0.4 |
| DLC | Time Clock Control | Lighting w/ No Controls | Grocery | Other Int. Lighting | Existing | building | 24,020 | 28% | 0.3 | 8 | \$296 | 13% | 7.3 |
| DLC | Time Clock Control | Lighting w/ No Controls | Grocery | Other Int. Lighting | New | building | 24,020 | 4.1% | 0.04 | 8 | \$296 | 0% | 1.1 |
| DLC | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Grocery | Plug Load | Existing | building | 1,521 | 46% | 0.5 | 5 | \$189 | 4% | 1.6 |
| DLC | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Grocery | Plug Load | New | building | 1,521 | 46% | 0.5 | 5 | \$189 | 4% | 1.6 |
| DLC | Data Center - Server/Storage Consolidation | No Consolidation | Grocery | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| DLC | Data Center - Server/Storage Consolidation | No Consolidation | Grocery | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| DLC | Data Center - Server/Storage Virtualization | No Virtualization | Grocery | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| DLC | Data Center - Server/Storage Virtualization | No Virtualization | Grocery | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| DLC | Energy Star - Scanners | Std Scanner | Grocery | Plug Load | New | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| DLC | Energy Star - Scanners | Std Scanner | Grocery | Plug Load | ROB | measure | 68 | 3.8% | 0.04 | 4 | \$130 | 7% | 0.1 |
| DLC | Energy Star Battery Charging System (for small cordless products) | Std. Battery Charging System | Grocery | Plug Load | ROB | measure | 593 | 2.3% | 0.10 | 5 | \$65 | 4% | 0.6 |
| DLC | Energy Star Dishwasher | Existing Dishwasher units | Grocery | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,580 | 16% | 1.1 |
| DLC | Energy Star Dishwasher | Standard Dishwasher unit | Grocery | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 16% | 3.5 |
| DLC | Energy Star Dishwasher | Standard Dishwasher unit | Grocery | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 16% | 3.5 |
| DLC | Energy Star External Power Adapter | Std. Power Adapter | Grocery | Plug Load | New | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| DLC | Energy Star External Power Adapter | Std. Power Adapter | Grocery | Plug Load | ROB | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| DLC | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Grocery | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 17% | 0.2 |
| DLC | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Grocery | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.1 |
| DLC | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Grocery | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.1 |
| DLC | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Grocery | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 9% | 0.7 |
| DLC | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Grocery | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.5 |
| DLC | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Grocery | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.5 |
| DLC | ENERGY STAR® Copiers | 10% Less Efficient Copier | Grocery | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 18% | 0.0 |
| DLC | ENERGY STAR® Copiers | One Conventional Copier | Grocery | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| DLC | ENERGY STAR® Copiers | One Conventional Copier | Grocery | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| DLC | ENERGY STAR® desktop | Standard computer | Grocery | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 69% | 0.1 |
| DLC | ENERGY STAR® desktop | Standard computer | Grocery | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.1 |
| DLC | ENERGY STAR® desktop | Standard computer | Grocery | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.1 |
| DLC | ENERGY STAR® Fax | 10% Less Efficient Fax | Grocery | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 15% | 0.0 |
| DLC | ENERGY STAR® Fax | One Conventional Fax | Grocery | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.1 |
| DLC | ENERGY STAR® Fax | One Conventional Fax | Grocery | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.1 |
| DLC | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Grocery | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 70% | 0.0 |
| DLC | ENERGY STAR® Monitors | One Conventional Monitor | Grocery | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| DLC | ENERGY STAR® Monitors | One Conventional Monitor | Grocery | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| DLC | ENERGY STAR® Printers | 10% Less Efficient Printer | Grocery | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 44% | 0.0 |
| DLC | ENERGY STAR® Printers | One Conventional Printer | Grocery | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| DLC | ENERGY STAR® Printers | One Conventional Printer | Grocery | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| DLC | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Grocery | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 43% | 0.1 |
| DLC | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Grocery | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.8 |
| DLC | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Grocery | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.8 |
| DLC | ENERGY STAR® Televisions | 10% Less Efficient Television | Grocery | Plug Load | Early | Unit | 505 | 38% | 0.03 | 6 | \$672 | 40% | 0.1 |
| DLC | ENERGY STAR® Televisions | One Conventional Television | Grocery | Plug Load | New | Unit | 459 | 32% | 0.02 | 6 | \$206 | 40% | 0.2 |
| DLC | ENERGY STAR® Televisions | One Conventional Television | Grocery | Plug Load | ROB | Unit | 459 | 32% | 0.02 | 6 | \$206 | 40% | 0.2 |
| DLC | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Grocery | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 24% | 0.3 |
| DLC | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Grocery | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.7 |
| DLC | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Grocery | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.7 |
| DLC | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Grocery | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.3 |
| DLC | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Grocery | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.3 |
| DLC | Network PC Power Management | No PC Power Management | Grocery | Plug Load | Existing | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 7.9 |
| DLC | Network PC Power Management | No PC Power Management | Grocery | Plug Load | New | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 7.9 |
| DLC | Smart Strip Plug Outlets | Standard plug strip/outlet | Grocery | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|--|---------|---------------|----------|-------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Smart Strip Plug Outlets | Standard plug strip/outlet | Grocery | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.2 |
| DLC | Smart Strip Plug Outlets | Standard plug strip/outlet | Grocery | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| DLC | Smart Strip Plug Outlets | Standard plug strip/outlet | Grocery | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| DLC | Smart Strip Plug Outlets | Standard plug strip/outlet | Grocery | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| DLC | Smart Strip Plug Outlets | Standard plug strip/outlet | Grocery | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| DLC | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Grocery | Plug Load | Existing | building | 1,521 | 46% | 0.5 | 5 | \$180 | 3% | 1.7 |
| DLC | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Grocery | Plug Load | New | building | 1,521 | 46% | 0.5 | 5 | \$180 | 3% | 1.7 |
| DLC | Air curtain technology | Strip plastic curtain | Grocery | Refrigeration | New | building | 75,191 | 3.1% | 0.03 | 8 | \$132 | 35% | 5.3 |
| DLC | Air curtain technology | Strip plastic curtain | Grocery | Refrigeration | New | building | 40,818 | 3.1% | 0.03 | 8 | \$134 | 35% | 2.9 |
| DLC | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Grocery | Refrigeration | Existing | building | 90,229 | 0.7% | 0.01 | 12 | \$70 | 11% | 4.6 |
| DLC | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Grocery | Refrigeration | New | building | 90,229 | 0.7% | 0.01 | 12 | \$70 | 11% | 4.6 |
| DLC | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Grocery | Refrigeration | Existing | building | 90,229 | 1.5% | 0.02 | 12 | \$70 | 11% | 9.5 |
| DLC | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Grocery | Refrigeration | New | building | 90,229 | 1.5% | 0.02 | 12 | \$70 | 11% | 9.5 |
| DLC | Auto Closer on Refrigerator Door | Door w/out Autocloser | Grocery | Refrigeration | Existing | building | 75,191 | 1.4% | 0.01 | 8 | \$817 | 40% | 0.4 |
| DLC | Auto Closer on Refrigerator Door | Door w/out Autocloser | Grocery | Refrigeration | Existing | building | 40,818 | 1.1% | 0.01 | 8 | \$1,208 | 40% | 0.1 |
| DLC | Auto Closer on Refrigerator Door | Door w/out Autocloser | Grocery | Refrigeration | New | building | 75,191 | 1.4% | 0.01 | 8 | \$817 | 40% | 0.4 |
| DLC | Auto Closer on Refrigerator Door | Door w/out Autocloser | Grocery | Refrigeration | New | building | 40,818 | 1.1% | 0.01 | 8 | \$1,208 | 40% | 0.1 |
| DLC | Demand Hot Gas Defrost | Base Refrigeration System | Grocery | Refrigeration | Existing | measure | 90,229 | 3.0% | 0.03 | 10 | \$1,313 | 83% | 0.8 |
| DLC | Demand Hot Gas Defrost | Base Refrigeration System | Grocery | Refrigeration | New | measure | 90,229 | 3.0% | 0.03 | 10 | \$1,313 | 79% | 0.8 |
| DLC | Door Gasket- Freezer | Door w/out Gasket | Grocery | Refrigeration | Existing | building | 75,191 | 0.9% | 0.01 | 4 | \$84 | 29% | 1.2 |
| DLC | Door Gasket- Freezer | Door w/out Gasket | Grocery | Refrigeration | New | building | 75,191 | 0.9% | 0.01 | 4 | \$84 | 29% | 1.2 |
| DLC | Door Gasket- Refrigerator | Door w/out Gasket | Grocery | Refrigeration | Existing | building | 40,818 | 0.4% | 0.00 | 4 | \$167 | 45% | 0.2 |
| DLC | Door Gasket- Refrigerator | Door w/out Gasket | Grocery | Refrigeration | New | building | 40,818 | 0.4% | 0.00 | 4 | \$167 | 45% | 0.2 |
| DLC | Economizer for Walk-in Coolers | No Economizer | Grocery | Refrigeration | Early | measure | 213,168 | 12% | 3.6 | 10 | \$2,237 | 72% | 5.6 |
| DLC | Economizer for Walk-in Coolers | No Economizer | Grocery | Refrigeration | Early | measure | 213,168 | 12% | 3.6 | 10 | \$2,237 | 72% | 5.6 |
| DLC | Economizer for Walk-in Coolers | No Economizer | Grocery | Refrigeration | Early | measure | 213,168 | 12% | 3.6 | 10 | \$2,237 | 72% | 5.6 |
| DLC | Economizer for Walk-in Coolers | No Economizer | Grocery | Refrigeration | New | measure | 213,168 | 12% | 3.6 | 10 | \$176 | 72% | 71.7 |
| DLC | Economizer for Walk-in Coolers | No Economizer | Grocery | Refrigeration | New | measure | 213,168 | 12% | 3.6 | 10 | \$176 | 72% | 71.7 |
| DLC | Economizer for Walk-in Coolers | No Economizer | Grocery | Refrigeration | New | measure | 213,168 | 12% | 3.6 | 10 | \$176 | 72% | 71.7 |
| DLC | Economizer for Walk-in Coolers | No Economizer | Grocery | Refrigeration | ROB | measure | 213,168 | 12% | 3.6 | 10 | \$176 | 72% | 71.7 |
| DLC | Economizer for Walk-in Coolers | No Economizer | Grocery | Refrigeration | ROB | measure | 213,168 | 12% | 3.6 | 10 | \$176 | 72% | 71.7 |
| DLC | eCube | Refrigeration unit w/out eCube | Grocery | Refrigeration | Existing | building | 40,818 | 15% | 0.2 | 15 | \$637 | 57% | 6.0 |
| DLC | eCube | Refrigeration unit w/out eCube | Grocery | Refrigeration | New | building | 40,818 | 15% | 0.2 | 15 | \$637 | 57% | 6.0 |
| DLC | Efficient compressor motor | Base Refrigeration System - Grocery | Grocery | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 83% | 2.3 |
| DLC | Efficient compressor motor | Base Refrigeration System - Grocery | Grocery | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 83% | 2.3 |
| DLC | Efficient compressor motor | Base Refrigeration System - Grocery | Grocery | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 83% | 2.3 |
| DLC | Efficient compressor motor | Base Refrigeration System - Grocery | Grocery | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 83% | 2.3 |
| DLC | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Grocery | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.6 |
| DLC | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Grocery | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| DLC | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Grocery | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| DLC | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Grocery | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.3 |
| DLC | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Grocery | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.8 |
| DLC | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Grocery | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.8 |
| DLC | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Grocery | Refrigeration | Existing | building | 40,818 | 0.2% | 0.00 | 10 | \$369 | 77% | 0.1 |
| DLC | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Grocery | Refrigeration | New | building | 40,818 | 0.2% | 0.00 | 10 | \$369 | 77% | 0.1 |
| DLC | Floating head pressure controller | System w/out FHPC | Grocery | Refrigeration | Existing | building | 75,191 | 1.8% | 0.01 | 15 | \$8,682 | 41% | 0.1 |
| DLC | Floating head pressure controller | System w/out FHPC | Grocery | Refrigeration | Existing | building | 40,818 | 1.2% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| DLC | Floating head pressure controller | System w/out FHPC | Grocery | Refrigeration | Existing | building | 90,229 | 0.6% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| DLC | Floating head pressure controller | System w/out FHPC | Grocery | Refrigeration | New | building | 75,191 | 1.8% | 0.01 | 15 | \$8,682 | 41% | 0.1 |
| DLC | Floating head pressure controller | System w/out FHPC | Grocery | Refrigeration | New | building | 40,818 | 1.2% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| DLC | Floating head pressure controller | System w/out FHPC | Grocery | Refrigeration | New | building | 90,229 | 0.6% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| DLC | High Efficiency Commercial Freezer | Std. Commercial Freezer | Grocery | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 79% | 0.4 |
| DLC | High Efficiency Commercial Freezer | Std. Commercial Freezer | Grocery | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 79% | 4.4 |
| DLC | High Efficiency Commercial Freezer | Std. Commercial Freezer | Grocery | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 79% | 4.4 |
| DLC | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Grocery | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 79% | 0.1 |
| DLC | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Grocery | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$406 | 79% | 1.0 |
| DLC | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Grocery | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$406 | 79% | 1.0 |
| DLC | High Efficiency Ice Maker | Existing Standard Efficiency Ice Maker in Pennsylvania | Grocery | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 69% | 0.2 |
| DLC | High Efficiency Ice Maker | Standard code minimum Ice Maker | Grocery | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 69% | 0.2 |
| DLC | High Efficiency Ice Maker | Standard code minimum Ice Maker | Grocery | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 69% | 0.2 |
| DLC | High Efficiency Ice Making Head | Standard Ice Making Head | Grocery | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 4.1 |
| DLC | High Efficiency Ice Making Head | Standard Ice Making Head | Grocery | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 4.1 |
| DLC | High R-Value Glass Doors | Base Refrigeration System - Grocery | Grocery | Refrigeration | Existing | building | 90,229 | 0.7% | 0.01 | 10 | \$314 | 90% | 0.8 |
| DLC | High R-Value Glass Doors | Base Refrigeration System - Grocery | Grocery | Refrigeration | New | building | 90,229 | 0.7% | 0.01 | 10 | \$314 | 90% | 0.8 |
| DLC | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Grocery | Refrigeration | Early | Fixture | 373 | 56% | 0.03 | 8 | \$448 | 89% | 0.2 |
| DLC | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Grocery | Refrigeration | New | Fixture | 291 | 44% | 0.02 | 8 | \$139 | 89% | 0.3 |
| DLC | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Grocery | Refrigeration | ROB | Fixture | 291 | 44% | 0.02 | 8 | \$139 | 89% | 0.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|--|---------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | No-heat glass doors | Standard low-temp reach-in | Grocery | Refrigeration | Existing | building | 90,229 | 20% | 0.2 | 10 | \$28,729 | 8% | 0.3 |
| DLC | No-heat glass doors | Standard low-temp reach-in | Grocery | Refrigeration | New | building | 90,229 | 20% | 0.2 | 10 | \$28,729 | 8% | 0.3 |
| DLC | Quick acting freezer doors | Std. Freezer Doors | Grocery | Refrigeration | Existing | building | 75,191 | 13% | 0.1 | 10 | \$16,905 | 56% | 0.2 |
| DLC | Quick acting freezer doors | Std. Freezer Doors | Grocery | Refrigeration | New | building | 75,191 | 13% | 0.1 | 10 | \$16,905 | 56% | 0.2 |
| DLC | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Grocery | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 29% | 0.5 |
| DLC | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Grocery | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 29% | 1.8 |
| DLC | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Grocery | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 29% | 1.8 |
| DLC | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 29% | 1.8 |
| DLC | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 29% | 3.3 |
| DLC | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 29% | 3.3 |
| DLC | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 29% | 1.9 |
| DLC | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 29% | 4.4 |
| DLC | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 29% | 4.4 |
| DLC | Refrigeration Commissioning | Non-commissioned refrigeration system | Grocery | Refrigeration | Existing | building | 214,832 | 9.5% | 0.10 | 3 | \$35,188 | 85% | 0.1 |
| DLC | Refrigeration Commissioning | Non-commissioned refrigeration system | Grocery | Refrigeration | New | building | 214,832 | 9.5% | 0.10 | 3 | \$35,188 | 85% | 0.1 |
| DLC | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Grocery | Refrigeration | Existing | building | 75,191 | 1.8% | 0.02 | 4 | \$102 | 22% | 2.0 |
| DLC | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Grocery | Refrigeration | Existing | building | 40,818 | 0.5% | 0.01 | 4 | \$203 | 22% | 0.2 |
| DLC | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Grocery | Refrigeration | New | building | 75,191 | 1.8% | 0.02 | 4 | \$102 | 22% | 2.0 |
| DLC | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Grocery | Refrigeration | New | building | 40,818 | 0.5% | 0.01 | 4 | \$203 | 22% | 0.2 |
| DLC | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Grocery | Refrigeration | Existing | building | 75,191 | 0.4% | 0.00 | 11 | \$167 | 77% | 0.8 |
| DLC | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Grocery | Refrigeration | New | building | 75,191 | 0.4% | 0.00 | 11 | \$167 | 77% | 0.8 |
| DLC | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Grocery | Refrigeration | Existing | building | 40,818 | 0.3% | 0.00 | 11 | \$167 | 77% | 0.3 |
| DLC | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Grocery | Refrigeration | New | building | 40,818 | 0.3% | 0.00 | 11 | \$167 | 77% | 0.3 |
| DLC | Vendor Miser | No Vendor Miser | Grocery | Refrigeration | Existing | machine | 8,593 | 0.5% | 0.00 | 8 | \$38 | 7% | 0.4 |
| DLC | Vertical Night Covers | Display cases w/out night covers-High Temperature | Grocery | Refrigeration | Existing | building | 90,229 | 0.1% | 0.00 | 5 | \$242 | 9% | 0.1 |
| DLC | Vertical Night Covers | Display cases w/out night covers-High Temperature | Grocery | Refrigeration | New | building | 90,229 | 0.1% | 0.00 | 5 | \$242 | 9% | 0.1 |
| DLC | VSD Controlled Compressor | Compressor w/out VSD | Grocery | Refrigeration | Early | Refrigerator | 7,487 | 14% | 0.1 | 15 | \$731 | 73% | 1.0 |
| DLC | VSD Controlled Compressor | Compressor w/out VSD | Grocery | Refrigeration | New | Refrigerator | 7,487 | 14% | 0.1 | 15 | \$731 | 73% | 1.0 |
| DLC | VSD Controlled Compressor | Compressor w/out VSD | Grocery | Refrigeration | ROB | Refrigerator | 7,487 | 14% | 0.1 | 15 | \$731 | 73% | 1.0 |
| DLC | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Grocery | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$268 | 35% | 1.0 |
| DLC | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Grocery | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$268 | 35% | 1.0 |
| DLC | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Grocery | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.5 |
| DLC | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Grocery | Refrigeration | New | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 3.3 |
| DLC | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Grocery | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.5 |
| DLC | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Grocery | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 3.3 |
| DLC | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 35% | 2.7 |
| DLC | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 35% | 2.5 |
| DLC | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 5.7 |
| DLC | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 5.4 |
| DLC | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 5.7 |
| DLC | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 5.4 |
| DLC | Adding reflective roof treatment | Std color roof | Grocery | Space Heating | Existing | building | 15,746 | 7.1% | 0.07 | 6 | \$24,149 | 82% | 0.0 |
| DLC | Adding reflective roof treatment | Std color roof | Grocery | Space Heating | New | building | 15,746 | 7.1% | 0.07 | 6 | \$24,149 | 82% | 0.0 |
| DLC | Adding window shade film | No shade film | Grocery | Space Heating | Existing | building | 15,746 | 1.3% | 0.4 | 10 | \$192 | 13% | 1.8 |
| DLC | Adding window shade film | No shade film | Grocery | Space Heating | New | building | 15,746 | 1.3% | 0.4 | 10 | \$192 | 13% | 1.8 |
| DLC | Adding window shade screen | No shade screen | Grocery | Space Heating | Existing | building | 15,746 | 1.1% | 0.01 | 10 | \$74 | 13% | 1.0 |
| DLC | Adding window shade screen | No shade screen | Grocery | Space Heating | New | building | 15,746 | 1.1% | 0.01 | 10 | \$74 | 13% | 1.0 |
| DLC | Automated control system | Manual Controls | Grocery | Space Heating | Existing | building | 15,746 | 17% | 0.2 | 15 | \$17,238 | 51% | 0.1 |
| DLC | Automated control system | Manual Controls | Grocery | Space Heating | New | building | 15,746 | 17% | 0.2 | 15 | \$17,238 | 94% | 0.1 |
| DLC | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Grocery | Space Heating | Existing | building | 15,746 | 9.8% | 0.10 | 15 | \$33,930 | 71% | 0.0 |
| DLC | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Grocery | Space Heating | New | building | 15,746 | 3.3% | 0.03 | 15 | \$32,251 | 94% | 0.0 |
| DLC | Duct Insulation, Add R8 | No Insulation | Grocery | Space Heating | Existing | building | 15,746 | 1.4% | 0.04 | 15 | \$125 | 20% | 1.4 |
| DLC | Duct Insulation, Add R8 | No Insulation | Grocery | Space Heating | New | building | 15,746 | 1.4% | 0.04 | 15 | \$125 | 10% | 1.4 |
| DLC | Efficient Unit Heating System | Existing Unit Heaters in PA | Grocery | Space Heating | Early | heater | 41,907 | 23% | 0.07 | 15 | \$3,289 | 83% | 1.8 |
| DLC | Efficient Unit Heating System | Std. Unit Heater | Grocery | Space Heating | New | heater | 37,192 | 13% | 0.04 | 15 | \$1,991 | 83% | 1.5 |
| DLC | Efficient Unit Heating System | Std. Unit Heater | Grocery | Space Heating | ROB | heater | 37,192 | 13% | 0.04 | 15 | \$1,991 | 83% | 1.5 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Grocery | Space Heating | Existing | building | 15,746 | 7.1% | 0.07 | 15 | \$69,846 | 25% | 0.0 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Grocery | Space Heating | New | building | 15,746 | 7.1% | 0.07 | 15 | \$69,846 | 35% | 0.0 |
| DLC | Hi Eff HVAC System Design | No HVAC Design | Grocery | Space Heating | New | building | 15,746 | 9.3% | 0.09 | 10 | \$905,299 | 51% | 0.0 |
| DLC | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Grocery | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 1.1 |
| DLC | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Grocery | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 1.1 |
| DLC | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Grocery | Space Heating | Existing | building | 15,746 | 1.1% | 0.01 | 10 | \$7,735 | 81% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|--|---------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Grocery | Space Heating | New | building | 15,746 | 1.1% | 0.01 | 10 | \$7,735 | 81% | 0.0 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Grocery | Space Heating | Existing | building | 15,746 | 3.6% | 0.04 | 11 | \$286 | 49% | 1.0 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Grocery | Space Heating | New | building | 15,746 | 3.1% | 0.03 | 11 | \$146 | 49% | 1.6 |
| DLC | Re-Commissioning (Existing Construction) | No Re-Commissioning | Grocery | Space Heating | Existing | building | 15,746 | 16% | 0.2 | 5 | \$19,254 | 86% | 0.0 |
| DLC | VFD on Cooling Tower Fan | Motor w/out VFD | Grocery | Space Heating | Early | motor | 18,724 | 70% | 3.4 | 15 | \$2,843 | 88% | 3.9 |
| DLC | VFD on Cooling Tower Fan | Motor w/out VFD | Grocery | Space Heating | New | motor | 18,373 | 72% | 3.3 | 15 | \$2,843 | 88% | 3.9 |
| DLC | VFD on Cooling Tower Fan | Motor w/out VFD | Grocery | Space Heating | ROB | motor | 18,373 | 72% | 3.3 | 15 | \$2,843 | 88% | 3.9 |
| DLC | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Grocery | Space Heating | Existing | building | 15,746 | 19% | 0.2 | 15 | \$7,224 | 26% | 0.3 |
| DLC | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Grocery | Space Heating | New | building | 15,746 | 0.5% | 0.01 | 15 | \$5,541 | 94% | 0.0 |
| DLC | 80W Induction Street Lighting | One 100W HPS Street Light Fixture | Grocery | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 0% | 0.3 |
| DLC | 80W Induction Street Lighting | One 100W HPS Street Light Fixture | Grocery | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.9 |
| DLC | 80W Induction Street Lighting | One 100W HPS Street Light Fixture | Grocery | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.9 |
| DLC | Green LED Traffic Light | Green Incandescent Traffic Light | Grocery | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 0% | 1.3 |
| DLC | Green LED Traffic Light | Green Incandescent Traffic Light | Grocery | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.2 |
| DLC | Green LED Traffic Light | Green Incandescent Traffic Light | Grocery | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.2 |
| DLC | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Grocery | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 0% | 3.1 |
| DLC | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Grocery | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| DLC | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Grocery | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| DLC | LED Street Lighting (67W) | One 100W HPS Street Light | Grocery | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 0% | 0.2 |
| DLC | LED Street Lighting (67W) | One 100W HPS Street Light | Grocery | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.4 |
| DLC | LED Street Lighting (67W) | One 100W HPS Street Light | Grocery | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.4 |
| DLC | Red LED Traffic Light | One Red Incandescent Traffic Light | Grocery | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 0% | 1.7 |
| DLC | Red LED Traffic Light | One Red Incandescent Traffic Light | Grocery | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| DLC | Red LED Traffic Light | One Red Incandescent Traffic Light | Grocery | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| DLC | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Grocery | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 0% | 0.1 |
| DLC | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Grocery | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| DLC | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Grocery | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| DLC | Demand controlled Circulating Systems | Constant circulation system | Grocery | Water Heating | Existing | building | 1,428 | 20% | 0.2 | 15 | \$259 | 59% | 1.4 |
| DLC | Demand controlled Circulating Systems | Constant circulation system | Grocery | Water Heating | New | building | 1,428 | 20% | 0.2 | 15 | \$259 | 59% | 1.4 |
| DLC | Drainwater Heat Recovery Water Heater | No heat recovery | Grocery | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 2.1 |
| DLC | Drainwater Heat Recovery Water Heater | No heat recovery | Grocery | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 2.1 |
| DLC | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Grocery | Water Heating | Existing | building | 1,428 | 5.9% | 0.06 | 12 | \$28 | 85% | 3.2 |
| DLC | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Grocery | Water Heating | New | building | 1,428 | 5.9% | 0.06 | 12 | \$8.0 | 85% | 11.1 |
| DLC | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Grocery | Water Heating | Early | water heater | 86,559 | 66% | 10.1 | 10 | \$3,562 | 68% | 8.3 |
| DLC | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Grocery | Water Heating | Early | water heater | 86,559 | 66% | 10.1 | 10 | \$3,562 | 68% | 8.3 |
| DLC | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Grocery | Water Heating | New | water heater | 86,559 | 66% | 10.1 | 10 | \$3,562 | 68% | 8.3 |
| DLC | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Grocery | Water Heating | New | water heater | 86,559 | 66% | 10.1 | 10 | \$3,562 | 68% | 8.3 |
| DLC | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Grocery | Water Heating | ROB | water heater | 84,155 | 65% | 9.7 | 10 | \$3,562 | 68% | 8.0 |
| DLC | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Grocery | Water Heating | ROB | water heater | 84,155 | 65% | 9.7 | 10 | \$3,562 | 68% | 8.0 |
| DLC | Heat Recovery Unit | Base Water Heating | Grocery | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.8 |
| DLC | Heat Recovery Unit | Base Water Heating | Grocery | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.8 |
| DLC | Heat Trap | No Heat Trap | Grocery | Water Heating | Existing | building | 1,428 | 22% | 0.2 | 11 | \$9.7 | 50% | 31.8 |
| DLC | Heat Trap | No Heat Trap | Grocery | Water Heating | New | building | 1,428 | 22% | 0.2 | 11 | \$1.4 | 50% | 213.6 |
| DLC | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Grocery | Water Heating | Early | water heater | 86,559 | 5.9% | 0.9 | 15 | \$921 | 79% | 4.3 |
| DLC | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Grocery | Water Heating | Early | water heater | 86,559 | 5.9% | 0.9 | 15 | \$921 | 79% | 4.3 |
| DLC | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Grocery | Water Heating | New | water heater | 84,155 | 3.2% | 0.5 | 15 | \$921 | 79% | 2.3 |
| DLC | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Grocery | Water Heating | New | water heater | 84,155 | 3.2% | 0.5 | 15 | \$921 | 79% | 2.3 |
| DLC | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Grocery | Water Heating | ROB | water heater | 84,155 | 3.2% | 0.5 | 15 | \$921 | 79% | 2.3 |
| DLC | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Grocery | Water Heating | ROB | water heater | 84,155 | 3.2% | 0.5 | 15 | \$921 | 79% | 2.3 |
| DLC | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Grocery | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$466 | 81% | 43.7 |
| DLC | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Grocery | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 22.8 |
| DLC | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Grocery | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 22.8 |
| DLC | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Grocery | Water Heating | Existing | building | 1,428 | 4.3% | 0.04 | 13 | \$9.2 | 68% | 7.6 |
| DLC | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Grocery | Water Heating | New | building | 1,428 | 4.3% | 0.04 | 13 | \$9.2 | 0% | 7.6 |
| DLC | Hot Water Circulation Pump Time-Clock | Constant circulation system | Grocery | Water Heating | Existing | building | 1,428 | 5.3% | 0.05 | 10 | \$5.8 | 72% | 11.7 |
| DLC | Hot Water Circulation Pump Time-Clock | Constant circulation system | Grocery | Water Heating | New | building | 1,428 | 5.3% | 0.05 | 10 | \$5.8 | 72% | 11.7 |
| DLC | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Grocery | Water Heating | Existing | building | 1,314 | 0.1% | 0.00 | 7 | \$22 | 78% | 0.0 |
| DLC | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Grocery | Water Heating | New | building | 1,314 | 0.1% | 0.00 | 7 | \$0.5 | 78% | 1.8 |
| DLC | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Grocery | Water Heating | Existing | building | 1,428 | 13% | 0.1 | 5 | \$300 | 20% | 0.3 |
| DLC | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Grocery | Water Heating | New | building | 1,428 | 8.9% | 0.09 | 5 | \$194 | 20% | 0.3 |
| DLC | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Grocery | Water Heating | Existing | building | 1,428 | 6.5% | 0.07 | 9 | \$25 | 2% | 3.0 |
| DLC | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Grocery | Water Heating | New | building | 1,428 | 6.5% | 0.07 | 9 | \$6.0 | 2% | 12.4 |
| DLC | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Grocery | Water Heating | Early | water heater | 86,559 | 52% | 3.7 | 15 | \$18,666 | 32% | 1.7 |
| DLC | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Grocery | Water Heating | New | water heater | 84,155 | 51% | 3.5 | 15 | \$18,666 | 32% | 1.6 |
| DLC | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Grocery | Water Heating | ROB | water heater | 84,155 | 51% | 3.5 | 15 | \$18,666 | 32% | 1.6 |
| DLC | Ultrasonic Faucet Control | Manual Faucet Control | Grocery | Water Heating | Existing | building | 1,428 | 3.0% | 0.03 | 10 | \$247 | 77% | 0.2 |
| DLC | Ultrasonic Faucet Control | Manual Faucet Control | Grocery | Water Heating | New | building | 1,428 | 3.1% | 0.03 | 10 | \$247 | 77% | 0.2 |
| DLC | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Grocery | Water Heating | Existing | building | 1,428 | 2.2% | 0.02 | 4 | \$28 | 83% | 0.4 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|---|------------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Grocery | Water Heating | New | building | 1,428 | 2.3% | 0.02 | 4 | \$28 | 83% | 0.4 |
| DLC | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Healthcare | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.2 |
| DLC | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Healthcare | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.2 |
| DLC | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Healthcare | Cooking | Early | steamer | 51 | 46% | 0.00 | 12 | \$5,053 | 81% | 0.0 |
| DLC | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Healthcare | Cooking | New | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| DLC | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Healthcare | Cooking | ROB | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| DLC | Electric combination oven (Energy Star) | Standard Oven | Healthcare | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 3.3 |
| DLC | Electric combination oven (Energy Star) | Standard Oven | Healthcare | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 3.3 |
| DLC | Electric Convection Oven ENERTY STAR (74% Eff) | Conventional convection oven w/ 65% efficiency | Healthcare | Cooking | Early | oven | 8,641 | 37% | 0.6 | 12 | \$4,119 | 81% | 0.5 |
| DLC | Electric Convection Oven ENERTY STAR (74% Eff) | Conventional convection oven w/ 70% efficiency | Healthcare | Cooking | New | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.8 |
| DLC | Electric Convection Oven ENERTY STAR (74% Eff) | Conventional convection oven w/ 70% efficiency | Healthcare | Cooking | ROB | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.8 |
| DLC | High Efficiency Fryer (ENERGY STAR 84% Eff) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Healthcare | Cooking | Early | fryer | 6,105 | 23% | 0.3 | 12 | \$9,241 | 86% | 0.1 |
| DLC | High Efficiency Fryer (ENERGY STAR 84% Eff) | Standard Electric Fryer meeting Code Minimum | Healthcare | Cooking | New | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.4 |
| DLC | High Efficiency Fryer (ENERGY STAR 84% Eff) | Standard Electric Fryer meeting Code Minimum | Healthcare | Cooking | ROB | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.4 |
| DLC | High Efficiency Griddle (ENERGY STAR 75% Eff) | Efficiency code minimum griddle (70% eff) | Healthcare | Cooking | Early | griddle | 11,317 | 65% | 1.4 | 12 | \$4,977 | 86% | 1.0 |
| DLC | High Efficiency Griddle (ENERGY STAR 75% Eff) | Conventional Griddle w/ 60% efficiency | Healthcare | Cooking | New | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.3 |
| DLC | High Efficiency Griddle (ENERGY STAR 75% Eff) | Conventional Griddle w/ 60% efficiency | Healthcare | Cooking | ROB | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.3 |
| DLC | High Efficiency Induction Cooking | Standard Cooking | Healthcare | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.2 |
| DLC | High Efficiency Induction Cooking | Standard Cooking | Healthcare | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.2 |
| DLC | Solid-state temperature controls | No Solid State Controls | Healthcare | Cooking | Existing | building | 15,561 | 3.6% | 0.04 | 12 | \$70 | 34% | 4.3 |
| DLC | Active chilled beam cooling | No Active Chilled beam cooling | Healthcare | Cooling Central | New | building | 10,069 | 5.3% | 0.05 | 15 | \$2,632 | 72% | 0.1 |
| DLC | Adding reflective roof treatment | Std color roof | Healthcare | Cooling Central | Existing | building | 10,599 | 7.0% | 0.07 | 6 | \$15,042 | 82% | 0.0 |
| DLC | Adding reflective roof treatment | Std color roof | Healthcare | Cooling Central | New | building | 10,599 | 7.0% | 0.07 | 6 | \$15,042 | 82% | 0.0 |
| DLC | Adding window shade film | No shade film | Healthcare | Cooling Central | Existing | building | 10,599 | 1.3% | 0.4 | 10 | \$129 | 12% | 2.5 |
| DLC | Adding window shade film | No shade film | Healthcare | Cooling Central | New | building | 10,599 | 1.3% | 0.4 | 10 | \$129 | 13% | 2.5 |
| DLC | Adding window shade screen | No shade screen | Healthcare | Cooling Central | Existing | building | 10,599 | 1.0% | 0.01 | 10 | \$50 | 13% | 1.0 |
| DLC | Adding window shade screen | No shade screen | Healthcare | Cooling Central | New | building | 10,599 | 1.1% | 0.01 | 10 | \$50 | 13% | 1.0 |
| DLC | Automated control system | Manual Controls | Healthcare | Cooling Central | Existing | building | 10,599 | 17% | 0.2 | 15 | \$11,604 | 51% | 0.1 |
| DLC | Automated control system | Manual Controls | Healthcare | Cooling Central | New | building | 10,599 | 17% | 0.2 | 15 | \$11,604 | 94% | 0.1 |
| DLC | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Healthcare | Cooling Central | Existing | building | 10,599 | 1.0% | 0.01 | 15 | \$20,566 | 71% | 0.0 |
| DLC | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Healthcare | Cooling Central | New | building | 10,599 | 0.3% | 0.00 | 15 | \$19,549 | 94% | 0.0 |
| DLC | Chilled Water Reset, Optimizer System for Chiller(s) | No Chilled Water Reset | Healthcare | Cooling Central | Existing | building | 10,599 | 3.7% | 0.04 | 10 | \$48 | 69% | 3.8 |
| DLC | Chiller Tune Up Diagnostics | No Chiller Tune Up | Healthcare | Cooling Central | Existing | building | 10,599 | 2.3% | 0.02 | 10 | \$11 | 59% | 10.6 |
| DLC | Chiller Tuneup/Diagnostics | No tuneup | Healthcare | Cooling Central | Existing | building | 10,599 | 8.0% | 0.08 | 10 | \$27,064 | 59% | 0.0 |
| DLC | Chiller Tuneup/Diagnostics | No tuneup | Healthcare | Cooling Central | New | building | 10,599 | 8.0% | 0.08 | 10 | \$27,064 | 59% | 0.0 |
| DLC | Cooling Tower Optimization | No Cooling Tower Optimization | Healthcare | Cooling Central | Existing | building | 10,599 | 4.9% | 0.05 | 10 | \$48 | 73% | 5.0 |
| DLC | Duct Insulation, Add R8 | No Insulation | Healthcare | Cooling Central | Existing | building | 10,599 | 1.4% | 0.04 | 15 | \$84 | 20% | 1.5 |
| DLC | Duct Insulation, Add R8 | No Insulation | Healthcare | Cooling Central | New | building | 10,599 | 1.4% | 0.04 | 15 | \$84 | 10% | 1.5 |
| DLC | Facility Commissioning | No Facility Commissioning | Healthcare | Cooling Central | New | building | 10,599 | 16% | 0.2 | 10 | \$67,587 | 89% | 0.0 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Healthcare | Cooling Central | Existing | building | 10,599 | 7.0% | 0.07 | 15 | \$47,015 | 25% | 0.0 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Healthcare | Cooling Central | New | building | 10,599 | 7.0% | 0.07 | 15 | \$47,015 | 35% | 0.0 |
| DLC | Hi Eff HVAC System Design | No HVAC Design | Healthcare | Cooling Central | New | building | 10,599 | 8.6% | 0.09 | 10 | \$657,319 | 51% | 0.0 |
| DLC | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | Early | ton | 9,209 | 24% | 0.8 | 15 | \$108,550 | 88% | 0.0 |
| DLC | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | New | ton | 7,528 | 6.7% | 0.2 | 15 | \$12,927 | 88% | 0.0 |
| DLC | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | ROB | ton | 7,528 | 6.7% | 0.2 | 15 | \$12,927 | 88% | 0.0 |
| DLC | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | Early | ton | 13,760 | 23% | 1.1 | 15 | \$140,105 | 88% | 0.0 |
| DLC | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | New | ton | 11,071 | 4.8% | 0.2 | 15 | \$9,336 | 88% | 0.1 |
| DLC | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | ROB | ton | 11,071 | 4.8% | 0.2 | 15 | \$9,336 | 88% | 0.1 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | Early | ton | 112,645 | 26% | 10.1 | 15 | \$105,354 | 88% | 0.3 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | New | ton | 98,146 | 15% | 5.1 | 15 | \$30,530 | 88% | 0.5 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | ROB | ton | 98,146 | 15% | 5.1 | 15 | \$30,530 | 88% | 0.5 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | Early | ton | 168,712 | 23% | 13.4 | 15 | \$154,107 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | New | ton | 154,983 | 16% | 8.6 | 15 | \$27,646 | 88% | 0.8 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | ROB | ton | 168,712 | 23% | 13.4 | 15 | \$27,646 | 88% | 1.3 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | Early | ton | 280,198 | 23% | 22.0 | 15 | \$302,924 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | New | ton | 253,600 | 14% | 12.7 | 15 | \$115,432 | 88% | 0.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|--|------------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | ROB | ton | 280,198 | 23% | 22.0 | 15 | \$115,432 | 88% | 0.5 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | Early | ton | 336,238 | 23% | 26.4 | 15 | \$350,154 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | New | ton | 304,319 | 14% | 15.3 | 15 | \$120,406 | 88% | 0.3 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | ROB | ton | 336,238 | 23% | 26.4 | 15 | \$120,406 | 88% | 0.6 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | Early | ton | 74,530 | 29% | 7.6 | 15 | \$83,632 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | New | ton | 57,872 | 8.9% | 1.8 | 15 | \$40,211 | 88% | 0.1 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | ROB | ton | 74,530 | 29% | 7.6 | 15 | \$40,211 | 88% | 0.5 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | Early | ton | 128,061 | 35% | 15.5 | 15 | \$132,173 | 88% | 0.3 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | New | ton | 95,512 | 13% | 4.2 | 15 | \$39,556 | 88% | 0.3 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | ROB | ton | 95,512 | 13% | 4.2 | 15 | \$39,556 | 88% | 0.3 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | Early | ton | 213,808 | 39% | 29.1 | 15 | \$187,029 | 88% | 0.4 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | New | ton | 152,442 | 15% | 7.7 | 15 | \$33,554 | 88% | 0.6 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | ROB | ton | 213,808 | 39% | 29.1 | 15 | \$33,554 | 88% | 2.3 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | Early | ton | 37,413 | 30% | 3.8 | 15 | \$32,398 | 88% | 0.3 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | New | ton | 29,642 | 11% | 1.1 | 15 | \$7,188 | 88% | 0.4 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | ROB | ton | 37,413 | 30% | 3.8 | 15 | \$7,188 | 88% | 1.4 |
| DLC | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Healthcare | Cooling Central | Existing | building | 10,599 | 2.1% | 0.02 | 10 | \$22,450 | 81% | 0.0 |
| DLC | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Healthcare | Cooling Central | New | building | 10,599 | 2.1% | 0.02 | 10 | \$22,450 | 81% | 0.0 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Healthcare | Cooling Central | Existing | building | 10,599 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.4 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Healthcare | Cooling Central | New | building | 10,599 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.6 |
| DLC | Re-Commissioning (Existing Construction) | No Re-Commissioning | Healthcare | Cooling Central | Existing | building | 10,599 | 16% | 0.2 | 5 | \$8,847 | 86% | 0.0 |
| DLC | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Healthcare | Cooling Central | Existing | building | 10,599 | 2.6% | 0.03 | 15 | \$5,624 | 26% | 0.0 |
| DLC | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Healthcare | Cooling Central | New | building | 10,599 | 0.1% | 0.00 | 15 | \$4,314 | 94% | 0.0 |
| DLC | <65k BTU/hr 14 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Healthcare | Cooling Unitary | Early | ton | 1,986 | 16% | 0.2 | 15 | \$1,545 | 29% | 0.2 |
| DLC | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Healthcare | Cooling Unitary | New | ton | 1,799 | 7.1% | 0.07 | 15 | \$339 | 29% | 0.4 |
| DLC | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Healthcare | Cooling Unitary | ROB | ton | 1,799 | 7.1% | 0.07 | 15 | \$339 | 29% | 0.4 |
| DLC | <65k BTU/hr 15 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Healthcare | Cooling Unitary | Early | ton | 1,986 | 22% | 0.2 | 15 | \$1,821 | 30% | 0.3 |
| DLC | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Healthcare | Cooling Unitary | New | ton | 1,799 | 13% | 0.1 | 15 | \$714 | 30% | 0.4 |
| DLC | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Healthcare | Cooling Unitary | ROB | ton | 1,799 | 13% | 0.1 | 15 | \$714 | 30% | 0.4 |
| DLC | <65k BTU/hr 16 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Healthcare | Cooling Unitary | Early | ton | 1,986 | 26% | 0.3 | 15 | \$2,098 | 31% | 0.3 |
| DLC | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Healthcare | Cooling Unitary | New | ton | 1,799 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.4 |
| DLC | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Healthcare | Cooling Unitary | ROB | ton | 1,799 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.4 |
| DLC | >760k min 10.2 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Healthcare | Cooling Unitary | Early | ton | 50,244 | 3.7% | 1.0 | 15 | \$68,066 | 56% | 0.0 |
| DLC | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Healthcare | Cooling Unitary | New | ton | 50,889 | 4.9% | 1.4 | 15 | \$6,231 | 56% | 0.5 |
| DLC | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Healthcare | Cooling Unitary | ROB | ton | 50,889 | 4.9% | 1.4 | 15 | \$6,231 | 56% | 0.5 |
| DLC | 135-240k min 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Healthcare | Cooling Unitary | Early | ton | 12,363 | 18% | 1.2 | 15 | \$18,135 | 79% | 0.1 |
| DLC | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Healthcare | Cooling Unitary | New | ton | 11,246 | 10.0% | 0.6 | 15 | \$1,948 | 79% | 0.7 |
| DLC | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Healthcare | Cooling Unitary | ROB | ton | 11,246 | 10.0% | 0.6 | 15 | \$1,948 | 79% | 0.7 |
| DLC | 240k-760k min 11 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Healthcare | Cooling Unitary | Early | ton | 33,055 | 9.0% | 1.6 | 15 | \$44,809 | 66% | 0.1 |
| DLC | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Healthcare | Cooling Unitary | New | ton | 33,138 | 9.3% | 1.7 | 15 | \$4,813 | 66% | 0.7 |
| DLC | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Healthcare | Cooling Unitary | ROB | ton | 33,138 | 9.3% | 1.7 | 15 | \$4,813 | 66% | 0.7 |
| DLC | 65k-135k BTU/hr 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Healthcare | Cooling Unitary | Early | ton | 7,288 | 17% | 0.7 | 15 | \$10,946 | 86% | 0.1 |
| DLC | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Healthcare | Cooling Unitary | New | ton | 6,495 | 6.7% | 0.2 | 15 | \$1,392 | 86% | 0.4 |
| DLC | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Healthcare | Cooling Unitary | ROB | ton | 6,495 | 6.7% | 0.2 | 15 | \$1,392 | 86% | 0.4 |
| DLC | Adding reflective roof treatment | Std color roof | Healthcare | Cooling Unitary | Existing | building | 172,091 | 7.0% | 0.07 | 6 | \$15,042 | 82% | 0.2 |
| DLC | Adding reflective roof treatment | Std color roof | Healthcare | Cooling Unitary | New | building | 172,091 | 7.0% | 0.07 | 6 | \$15,042 | 82% | 0.2 |
| DLC | Adding window shade film | No shade film | Healthcare | Cooling Unitary | Existing | building | 172,091 | 1.3% | 0.4 | 10 | \$2,094 | 12% | 0.5 |
| DLC | Adding window shade film | No shade film | Healthcare | Cooling Unitary | New | building | 172,091 | 1.3% | 0.4 | 10 | \$2,094 | 13% | 0.5 |
| DLC | Adding window shade screen | No shade screen | Healthcare | Cooling Unitary | Existing | building | 172,091 | 1.1% | 0.01 | 10 | \$810 | 12% | 0.9 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|---|------------|-----------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Adding window shade screen | No shade screen | Healthcare | Cooling Unitary | New | building | 172,091 | 1.1% | 0.01 | 10 | \$810 | 13% | 0.9 |
| DLC | Automated control system | Manual Controls | Healthcare | Cooling Unitary | Existing | building | 172,091 | 17% | 0.2 | 15 | \$188,399 | 51% | 0.1 |
| DLC | Automated control system | Manual Controls | Healthcare | Cooling Unitary | New | building | 172,091 | 17% | 0.2 | 15 | \$188,399 | 94% | 0.1 |
| DLC | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Healthcare | Cooling Unitary | Existing | building | 172,091 | 1.1% | 0.01 | 15 | \$20,566 | 71% | 0.1 |
| DLC | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Healthcare | Cooling Unitary | New | building | 172,091 | 0.3% | 0.00 | 15 | \$19,549 | 94% | 0.0 |
| DLC | Duct Insulation, Add R8 | No Insulation | Healthcare | Cooling Unitary | Existing | building | 172,091 | 1.4% | 0.04 | 15 | \$1,367 | 20% | 1.1 |
| DLC | Duct Insulation, Add R8 | No Insulation | Healthcare | Cooling Unitary | New | building | 172,091 | 1.4% | 0.04 | 15 | \$1,367 | 10% | 1.1 |
| DLC | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Healthcare | Cooling Unitary | Existing | building | 94,650 | 13% | 0.1 | 1 | \$907 | 73% | 0.6 |
| DLC | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Healthcare | Cooling Unitary | New | building | 94,650 | 13% | 0.1 | 1 | \$907 | 73% | 0.6 |
| DLC | ECM Motors for split systems | Std Shaded Pole Motor | Healthcare | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 3.2 |
| DLC | ECM Motors for split systems | Std Shaded Pole Motor | Healthcare | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 3.2 |
| DLC | Facility Commissioning | No Facility Commissioning | Healthcare | Cooling Unitary | New | building | 172,091 | 16% | 0.2 | 10 | \$5,104 | 89% | 2.1 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Healthcare | Cooling Unitary | Existing | building | 172,091 | 7.1% | 0.07 | 15 | \$763,357 | 25% | 0.0 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Healthcare | Cooling Unitary | New | building | 172,091 | 7.1% | 0.07 | 15 | \$763,357 | 35% | 0.0 |
| DLC | Hi Eff HVAC System Design | No HVAC Design | Healthcare | Cooling Unitary | New | building | 172,091 | 8.6% | 0.09 | 10 | \$59,905 | 51% | 0.1 |
| DLC | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Healthcare | Cooling Unitary | Existing | building | 172,091 | 5.0% | 0.05 | 5 | \$225 | 59% | 7.0 |
| DLC | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Healthcare | Cooling Unitary | Existing | building | 172,091 | 0.1% | 0.04 | 5 | \$225 | 51% | 0.2 |
| DLC | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Healthcare | Cooling Unitary | New | building | 172,091 | 0.1% | 0.04 | 5 | \$135 | 51% | 0.3 |
| DLC | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Healthcare | Cooling Unitary | Existing | building | 172,091 | 2.1% | 0.02 | 10 | \$24,127 | 86% | 0.1 |
| DLC | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Healthcare | Cooling Unitary | New | building | 172,091 | 2.1% | 0.02 | 10 | \$24,127 | 86% | 0.1 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) | Healthcare | Cooling Unitary | Existing | building | 172,091 | 2.0% | 0.02 | 11 | \$286 | 49% | 5.5 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Healthcare | Cooling Unitary | New | building | 172,091 | 1.7% | 0.02 | 11 | \$146 | 49% | 9.1 |
| DLC | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Healthcare | Cooling Unitary | Early | unit | 779 | 19% | 0.07 | 15 | \$849 | 85% | 0.2 |
| DLC | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Healthcare | Cooling Unitary | New | unit | 787 | 20% | 0.07 | 15 | \$356 | 85% | 0.5 |
| DLC | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Healthcare | Cooling Unitary | ROB | unit | 787 | 20% | 0.07 | 15 | \$356 | 85% | 0.5 |
| DLC | Re-Commissioning (Existing Construction) | No Re-Commissioning | Healthcare | Cooling Unitary | Existing | building | 172,091 | 16% | 0.2 | 5 | \$8,847 | 86% | 0.6 |
| DLC | Room AC (w/ louvered sides) | Exisiting efficiency Room AC in Pennsylvania (2000 Federal Standards) | Healthcare | Cooling Unitary | Early | ton | 1,088 | 13% | 0.05 | 9 | \$348 | 82% | 0.2 |
| DLC | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Healthcare | Cooling Unitary | New | ton | 986 | 4.5% | 0.02 | 9 | \$17 | 82% | 1.5 |
| DLC | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Healthcare | Cooling Unitary | ROB | ton | 986 | 4.5% | 0.02 | 9 | \$17 | 82% | 1.5 |
| DLC | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Healthcare | Cooling Unitary | Existing | building | 172,091 | 2.6% | 0.03 | 15 | \$5,624 | 26% | 0.5 |
| DLC | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Healthcare | Cooling Unitary | New | building | 172,091 | 0.1% | 0.00 | 15 | \$4,314 | 94% | 0.0 |
| DLC | 80W Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Healthcare | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 0% | 0.2 |
| DLC | 80W Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Healthcare | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| DLC | 80W Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Healthcare | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| DLC | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Healthcare | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 1.2 |
| DLC | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Healthcare | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.7 |
| DLC | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Healthcare | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.7 |
| DLC | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Healthcare | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 75% | 0.3 |
| DLC | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Healthcare | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 75% | 0.2 |
| DLC | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Healthcare | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 3.1 |
| DLC | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Healthcare | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.3 |
| DLC | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Healthcare | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 3.1 |
| DLC | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Healthcare | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.3 |
| DLC | Photocell Controls (Outdoor) | Lighting w/ No Controls | Healthcare | Ext. Lighting | Existing | building | 2,752 | 28% | 0.3 | 8 | \$5,444 | 88% | 0.1 |
| DLC | Photocell Controls (Outdoor) | Lighting w/ No Controls | Healthcare | Ext. Lighting | New | building | 2,752 | 28% | 0.3 | 8 | \$5,444 | 0% | 0.1 |
| DLC | Adding reflective roof treatment | Std color roof | Healthcare | Heat Pump | Existing | building | 20,090 | 6.9% | 0.07 | 6 | \$15,042 | 82% | 0.0 |
| DLC | Adding reflective roof treatment | Std color roof | Healthcare | Heat Pump | New | building | 20,090 | 6.9% | 0.07 | 6 | \$15,042 | 82% | 0.0 |
| DLC | Adding window shade film | No shade film | Healthcare | Heat Pump | Existing | building | 20,090 | 3.9% | 0.4 | 10 | \$244 | 12% | 2.3 |
| DLC | Adding window shade film | No shade film | Healthcare | Heat Pump | New | building | 20,090 | 3.9% | 0.4 | 10 | \$244 | 12% | 2.3 |
| DLC | Adding window shade screen | No shade screen | Healthcare | Heat Pump | Existing | building | 20,090 | 0.3% | 0.01 | 10 | \$32 | 12% | 1.1 |
| DLC | Adding window shade screen | No shade screen | Healthcare | Heat Pump | New | building | 20,090 | 0.3% | 0.01 | 10 | \$32 | 12% | 1.1 |
| DLC | Automated control system | Manual Controls | Healthcare | Heat Pump | Existing | building | 20,090 | 17% | 0.2 | 15 | \$21,993 | 51% | 0.1 |
| DLC | Automated control system | Manual Controls | Healthcare | Heat Pump | New | building | 20,090 | 17% | 0.2 | 15 | \$21,993 | 94% | 0.1 |
| DLC | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Healthcare | Heat Pump | Existing | building | 20,090 | 1.0% | 0.01 | 15 | \$20,566 | 71% | 0.0 |
| DLC | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Healthcare | Heat Pump | New | building | 20,090 | 0.3% | 0.00 | 15 | \$19,549 | 94% | 0.0 |
| DLC | Duct Insulation, Add R8 | No Insulation | Healthcare | Heat Pump | Existing | building | 20,090 | 4.0% | 0.04 | 15 | \$160 | 12% | 3.3 |
| DLC | Duct Insulation, Add R8 | No Insulation | Healthcare | Heat Pump | New | building | 20,090 | 4.0% | 0.04 | 15 | \$160 | 6% | 3.3 |
| DLC | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Healthcare | Heat Pump | Early | heat pump | 1,774 | 13% | 0.02 | 15 | \$4,070 | 83% | 0.0 |
| DLC | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Healthcare | Heat Pump | New | heat pump | 1,679 | 7.7% | 0.01 | 15 | \$1,097 | 83% | 0.1 |
| DLC | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Healthcare | Heat Pump | ROB | heat pump | 1,679 | 7.7% | 0.01 | 15 | \$1,097 | 83% | 0.1 |
| DLC | Facility Commissioning | No Facility Commissioning | Healthcare | Heat Pump | New | building | 20,090 | 16% | 0.2 | 10 | \$67,587 | 89% | 0.0 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Healthcare | Heat Pump | Existing | building | 20,090 | 7.0% | 0.07 | 15 | \$89,113 | 25% | 0.0 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Healthcare | Heat Pump | New | building | 20,090 | 7.0% | 0.07 | 15 | \$89,113 | 35% | 0.0 |
| DLC | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Healthcare | Heat Pump | Early | heat pump | 18,527 | 18% | 0.3 | 15 | \$91,117 | 19% | 0.0 |
| DLC | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Healthcare | Heat Pump | New | heat pump | 17,741 | 14% | 0.2 | 15 | \$33,927 | 19% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|--|------------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Healthcare | Heat Pump | ROB | heat pump | 17,741 | 14% | 0.2 | 15 | \$33,927 | 19% | 0.1 |
| DLC | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Healthcare | Heat Pump | Early | heat pump | 18,527 | 18% | 0.3 | 15 | \$58,356 | 19% | 0.0 |
| DLC | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Healthcare | Heat Pump | New | heat pump | 17,741 | 14% | 0.2 | 15 | \$1,167 | 19% | 1.5 |
| DLC | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Healthcare | Heat Pump | ROB | heat pump | 17,741 | 14% | 0.2 | 15 | \$1,167 | 19% | 1.5 |
| DLC | Hi Eff HVAC System Design | No HVAC Design | Healthcare | Heat Pump | New | building | 20,090 | 8.6% | 0.09 | 10 | \$657,319 | 51% | 0.0 |
| DLC | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Healthcare | Heat Pump | Early | heat pump | 4,731 | 17% | 0.07 | 12 | \$4,298 | 81% | 0.1 |
| DLC | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Healthcare | Heat Pump | New | heat pump | 4,477 | 13% | 0.05 | 12 | \$852 | 81% | 0.4 |
| DLC | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Healthcare | Heat Pump | ROB | heat pump | 4,477 | 13% | 0.05 | 12 | \$852 | 81% | 0.4 |
| DLC | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Healthcare | Heat Pump | Existing | building | 20,090 | 5.0% | 0.09 | 5 | \$90 | 51% | 2.3 |
| DLC | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Healthcare | Heat Pump | New | building | 20,090 | 5.0% | 0.09 | 5 | \$90 | 51% | 2.3 |
| DLC | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Healthcare | Heat Pump | Existing | building | 20,090 | 2.1% | 0.02 | 10 | \$21,481 | 81% | 0.0 |
| DLC | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Healthcare | Heat Pump | New | building | 20,090 | 2.1% | 0.02 | 10 | \$21,481 | 81% | 0.0 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Healthcare | Heat Pump | Existing | building | 20,090 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.8 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Healthcare | Heat Pump | New | building | 20,090 | 2.1% | 0.02 | 11 | \$146 | 49% | 1.4 |
| DLC | Re-Commissioning (Existing Construction) | No Re-Commissioning | Healthcare | Heat Pump | Existing | building | 20,090 | 16% | 0.2 | 5 | \$8,847 | 86% | 0.1 |
| DLC | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Healthcare | Heat Pump | Existing | building | 20,090 | 2.6% | 0.03 | 15 | \$5,624 | 26% | 0.1 |
| DLC | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Healthcare | Heat Pump | New | building | 20,090 | 0.1% | 0.00 | 15 | \$4,314 | 94% | 0.0 |
| DLC | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Healthcare | Heat Pump | Early | heat pump | 7,468 | 32% | 0.2 | 15 | \$35,347 | 28% | 0.0 |
| DLC | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Healthcare | Heat Pump | New | heat pump | 7,022 | 28% | 0.2 | 15 | \$15,739 | 28% | 0.1 |
| DLC | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Healthcare | Heat Pump | ROB | heat pump | 7,022 | 28% | 0.2 | 15 | \$15,739 | 28% | 0.1 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | Early | Fixture | 620 | 9.6% | 0.01 | 13 | \$850 | 39% | 0.0 |
| DLC | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Healthcare | High Bay Lighting | Early | Fixture | 619 | 9.5% | 0.01 | 13 | \$850 | 28% | 0.0 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Healthcare | High Bay Lighting | Early | Fixture | 956 | 41% | 0.08 | 13 | \$850 | 36% | 0.3 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | New | Fixture | 471 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Healthcare | High Bay Lighting | New | Fixture | 438 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Healthcare | High Bay Lighting | New | Fixture | 726 | 41% | 0.06 | 13 | \$397 | 36% | 0.5 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 620 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 577 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 956 | 41% | 0.08 | 13 | \$397 | 36% | 0.7 |
| DLC | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | Early | Fixture | 1,203 | 19% | 0.05 | 13 | \$851 | 38% | 0.2 |
| DLC | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Healthcare | High Bay Lighting | Early | Fixture | 1,218 | 20% | 0.05 | 13 | \$851 | 38% | 0.2 |
| DLC | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | Early | Fixture | 3,543 | 73% | 0.5 | 13 | \$851 | 38% | 2.1 |
| DLC | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | New | Fixture | 914 | 19% | 0.04 | 13 | \$372 | 38% | 0.3 |
| DLC | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | New | Fixture | 2,693 | 73% | 0.4 | 13 | \$383 | 38% | 3.6 |
| DLC | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 1,203 | 19% | 0.05 | 13 | \$372 | 38% | 0.4 |
| DLC | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 3,543 | 73% | 0.5 | 13 | \$383 | 38% | 4.8 |
| DLC | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | Early | Fixture | 1,203 | 25% | 0.06 | 13 | \$554 | 29% | 0.4 |
| DLC | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Healthcare | High Bay Lighting | Early | Fixture | 1,181 | 23% | 0.06 | 13 | \$554 | 28% | 0.4 |
| DLC | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | Early | Fixture | 3,543 | 74% | 0.6 | 13 | \$554 | 36% | 3.4 |
| DLC | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | New | Fixture | 914 | 25% | 0.05 | 13 | \$75 | 29% | 2.1 |
| DLC | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | New | Fixture | 2,693 | 74% | 0.4 | 13 | \$86 | 36% | 16.6 |
| DLC | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 1,203 | 25% | 0.06 | 13 | \$75 | 29% | 2.8 |
| DLC | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 3,543 | 74% | 0.6 | 13 | \$86 | 36% | 21.9 |
| DLC | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Healthcare | High Bay Lighting | Early | Fixture | 314 | 0.2% | 0.00 | 13 | \$835 | 38% | 0.0 |
| DLC | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Healthcare | High Bay Lighting | Early | Fixture | 676 | 54% | 0.08 | 13 | \$835 | 38% | 0.3 |
| DLC | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Healthcare | High Bay Lighting | New | Fixture | 514 | 54% | 0.06 | 13 | \$382 | 38% | 0.5 |
| DLC | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 676 | 54% | 0.08 | 13 | \$382 | 38% | 0.7 |
| DLC | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | Early | Fixture | 1,533 | 18% | 0.06 | 13 | \$487 | 25% | 0.4 |
| DLC | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Healthcare | High Bay Lighting | Early | Fixture | 1,603 | 22% | 0.07 | 13 | \$487 | 28% | 0.5 |
| DLC | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | Early | Fixture | 3,543 | 65% | 0.5 | 13 | \$487 | 36% | 3.3 |
| DLC | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | New | Fixture | 1,165 | 18% | 0.05 | 13 | \$16 | 25% | 9.3 |
| DLC | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | New | Fixture | 2,693 | 65% | 0.4 | 13 | \$18 | 36% | 67.3 |
| DLC | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 1,533 | 18% | 0.06 | 13 | \$16 | 25% | 12.2 |
| DLC | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 3,543 | 65% | 0.5 | 13 | \$18 | 36% | 88.6 |
| DLC | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | Early | Fixture | 1,533 | 1.5% | 0.00 | 13 | \$557 | 19% | 0.0 |
| DLC | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Healthcare | High Bay Lighting | Early | Fixture | 1,578 | 4.3% | 0.01 | 13 | \$557 | 19% | 0.1 |
| DLC | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | Early | Fixture | 3,543 | 57% | 0.4 | 13 | \$557 | 19% | 2.6 |
| DLC | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | New | Fixture | 1,165 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| DLC | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | New | Fixture | 2,693 | 57% | 0.3 | 13 | \$88 | 19% | 12.5 |
| DLC | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 1,533 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.2 |
| DLC | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 3,543 | 57% | 0.4 | 13 | \$88 | 19% | 16.4 |
| DLC | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Healthcare | High Bay Lighting | Early | Fixture | 651 | 29% | 0.03 | 13 | \$492 | 71% | 0.3 |
| DLC | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | Early | Fixture | 544 | 15% | 0.01 | 13 | \$492 | 95% | 0.1 |
| DLC | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Healthcare | High Bay Lighting | Early | Fixture | 808 | 43% | 0.05 | 13 | \$492 | 95% | 0.5 |
| DLC | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Healthcare | High Bay Lighting | Early | Fixture | 749 | 38% | 0.04 | 13 | \$492 | 95% | 0.4 |
| DLC | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | New | Fixture | 414 | 15% | 0.01 | 13 | \$25 | 95% | 1.6 |
| DLC | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Healthcare | High Bay Lighting | New | Fixture | 614 | 43% | 0.04 | 13 | \$51 | 95% | 3.4 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|---|------------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 544 | 15% | 0.01 | 13 | \$25 | 95% | 2.2 |
| DLC | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 808 | 43% | 0.05 | 13 | \$51 | 95% | 4.4 |
| DLC | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Healthcare | High Bay Lighting | Early | lamp | 107 | 16% | 0.00 | 10 | \$7.7 | 99% | 1.3 |
| DLC | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Healthcare | High Bay Lighting | New | lamp | 64 | 13% | 0.00 | 10 | \$1.6 | 91% | 2.8 |
| DLC | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Healthcare | High Bay Lighting | ROB | lamp | 103 | 13% | 0.00 | 10 | \$1.6 | 91% | 4.5 |
| DLC | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | Early | Fixture | 3,626 | 23% | 0.2 | 13 | \$613 | 5% | 1.0 |
| DLC | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Healthcare | High Bay Lighting | Early | Fixture | 2,849 | 1.6% | 0.01 | 13 | \$613 | 28% | 0.1 |
| DLC | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | Early | Fixture | 7,087 | 60% | 0.9 | 13 | \$613 | 18% | 5.0 |
| DLC | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | New | Fixture | 2,756 | 23% | 0.1 | 13 | \$96 | 5% | 4.6 |
| DLC | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 3,626 | 23% | 0.2 | 13 | \$96 | 5% | 6.1 |
| DLC | 85W Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | Early | Fixture | 3,626 | 92% | 0.7 | 13 | \$1,916 | 95% | 1.2 |
| DLC | 85W Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | Early | Fixture | 7,087 | 96% | 1.4 | 13 | \$1,916 | 95% | 2.5 |
| DLC | 85W Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | New | Fixture | 2,756 | 92% | 0.5 | 13 | \$1,468 | 95% | 1.2 |
| DLC | 85W Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | New | Fixture | 5,386 | 96% | 1.1 | 13 | \$1,149 | 95% | 3.2 |
| DLC | 85W Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 3,626 | 92% | 0.7 | 13 | \$1,468 | 95% | 1.6 |
| DLC | 85W Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 7,087 | 96% | 1.4 | 13 | \$1,149 | 95% | 4.2 |
| DLC | Auto Off Time Switch | Lighting w/ No Controls | Healthcare | High Bay Lighting | Existing | building | 4,923 | 24% | 0.2 | 8 | \$1,106 | 13% | 0.4 |
| DLC | Auto Off Time Switch | Lighting w/ No Controls | Healthcare | High Bay Lighting | New | building | 4,923 | 6.9% | 0.07 | 8 | \$1,106 | 0% | 0.1 |
| DLC | Central Lighting Control System | Lighting w/ No Controls | Healthcare | High Bay Lighting | Existing | building | 4,923 | 38% | 0.4 | 8 | \$1,106 | 13% | 0.7 |
| DLC | Central Lighting Control System | Lighting w/ No Controls | Healthcare | High Bay Lighting | New | building | 4,923 | 14% | 0.1 | 8 | \$1,106 | 13% | 0.3 |
| DLC | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Healthcare | High Bay Lighting | New | building | 4,923 | 10% | 0.1 | 15 | \$32,147 | 32% | 0.0 |
| DLC | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Healthcare | High Bay Lighting | New | building | 4,923 | 15% | 0.2 | 15 | \$80,367 | 32% | 0.0 |
| DLC | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Healthcare | High Bay Lighting | New | building | 4,923 | 30% | 0.3 | 15 | \$115,193 | 32% | 0.0 |
| DLC | Indoor Daylight Sensors | Lighting w/ No Controls | Healthcare | High Bay Lighting | Existing | building | 4,923 | 28% | 0.3 | 8 | \$5,444 | 13% | 0.1 |
| DLC | Indoor Daylight Sensors | Lighting w/ No Controls | Healthcare | High Bay Lighting | New | building | 4,923 | 4.0% | 0.04 | 8 | \$5,444 | 0% | 0.0 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 365 W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | Early | Fixture | 1,203 | 67% | 0.2 | 13 | \$960 | 95% | 0.6 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 1075 W Mercury Vapor Fixture | Healthcare | High Bay Lighting | Early | Fixture | 3,543 | 89% | 0.7 | 13 | \$960 | 95% | 2.3 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 295 W Metal Halide Fixture | Healthcare | High Bay Lighting | Early | Fixture | 972 | 59% | 0.1 | 13 | \$960 | 95% | 0.4 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 365 W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | New | Fixture | 914 | 67% | 0.1 | 13 | \$480 | 95% | 0.9 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 1075 W Mercury Vapor Fixture | Healthcare | High Bay Lighting | New | Fixture | 2,693 | 89% | 0.5 | 13 | \$491 | 95% | 3.5 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 295 W Metal Halide Fixture | Healthcare | High Bay Lighting | New | Fixture | 739 | 59% | 0.09 | 13 | \$406 | 95% | 0.8 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 365 W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 1,203 | 67% | 0.2 | 13 | \$480 | 95% | 1.2 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 1075 W Mercury Vapor Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 3,543 | 89% | 0.7 | 13 | \$491 | 95% | 4.5 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 295 W Metal Halide Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 972 | 59% | 0.1 | 13 | \$406 | 95% | 1.0 |
| DLC | Occupancy Sensor | Lighting w/ No Controls | Healthcare | High Bay Lighting | Existing | building | 4,923 | 24% | 0.2 | 8 | \$1,666 | 11% | 0.3 |
| DLC | Occupancy Sensor | Lighting w/ No Controls | Healthcare | High Bay Lighting | New | building | 4,923 | 6.9% | 0.07 | 8 | \$1,666 | 0% | 0.1 |
| DLC | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Healthcare | High Bay Lighting | Existing | building | 4,923 | 28% | 0.3 | 8 | \$5,444 | 11% | 0.1 |
| DLC | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Healthcare | High Bay Lighting | New | building | 4,923 | 4.0% | 0.04 | 8 | \$5,444 | 0% | 0.0 |
| DLC | Time Clock Control | Lighting w/ No Controls | Healthcare | High Bay Lighting | Existing | building | 4,923 | 28% | 0.3 | 8 | \$1,106 | 13% | 0.5 |
| DLC | Time Clock Control | Lighting w/ No Controls | Healthcare | High Bay Lighting | New | building | 4,923 | 4.0% | 0.04 | 8 | \$1,106 | 0% | 0.1 |
| DLC | Auto Off Time Switch | Lighting w/ No Controls | Healthcare | Lin. Fluor. Lighting | Existing | building | 214,884 | 24% | 0.2 | 8 | \$1,106 | 13% | 13.9 |
| DLC | Auto Off Time Switch | Lighting w/ No Controls | Healthcare | Lin. Fluor. Lighting | New | building | 214,884 | 7.0% | 0.07 | 8 | \$1,106 | 0% | 4.0 |
| DLC | Central Lighting Control System | Lighting w/ No Controls | Healthcare | Lin. Fluor. Lighting | Existing | building | 214,884 | 38% | 0.4 | 8 | \$1,106 | 12% | 22.0 |
| DLC | Central Lighting Control System | Lighting w/ No Controls | Healthcare | Lin. Fluor. Lighting | New | building | 214,884 | 14% | 0.1 | 8 | \$1,106 | 12% | 8.1 |
| DLC | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Healthcare | Lin. Fluor. Lighting | New | building | 214,884 | 10% | 0.1 | 15 | \$32,147 | 32% | 0.4 |
| DLC | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Healthcare | Lin. Fluor. Lighting | New | building | 214,884 | 15% | 0.2 | 15 | \$80,367 | 32% | 0.2 |
| DLC | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Healthcare | Lin. Fluor. Lighting | New | building | 214,884 | 30% | 0.3 | 15 | \$115,193 | 32% | 0.3 |
| DLC | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Healthcare | Lin. Fluor. Lighting | Early | Lamp | 215 | 38% | 0.02 | 10 | \$7.3 | 94% | 6.0 |
| DLC | Indoor Daylight Sensors | Lighting w/ No Controls | Healthcare | Lin. Fluor. Lighting | Existing | building | 214,884 | 28% | 0.3 | 8 | \$5,444 | 13% | 3.3 |
| DLC | Indoor Daylight Sensors | Lighting w/ No Controls | Healthcare | Lin. Fluor. Lighting | New | building | 214,884 | 4.1% | 0.04 | 8 | \$5,444 | 0% | 0.5 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 28W T8 Lamp, Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | Early | Lamp | 77 | 19% | 0.00 | 15 | \$35 | 94% | 0.3 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 40W T12 Lamp, Magnetic Ballast | Healthcare | Lin. Fluor. Lighting | Early | Lamp | 169 | 63% | 0.02 | 15 | \$35 | 94% | 2.5 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 28W T5 Lamp, Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | Early | Lamp | 95 | 34% | 0.01 | 15 | \$35 | 94% | 0.8 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 32W T8 Lamp, Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | Early | Lamp | 92 | 32% | 0.01 | 15 | \$35 | 94% | 0.7 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 28W T8 Lamp, Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | New | Lamp | 59 | 19% | 0.00 | 15 | \$28 | 94% | 0.3 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 32W T8 Lamp, Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | New | Lamp | 70 | 32% | 0.00 | 15 | \$29 | 94% | 0.6 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 28W T5 Lamp, Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | New | Lamp | 72 | 34% | 0.01 | 15 | \$22 | 94% | 0.9 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 32W T8 Lamp, Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | New | Lamp | 70 | 32% | 0.00 | 15 | \$29 | 94% | 0.6 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 28W T8 Lamp, Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | ROB | Lamp | 77 | 19% | 0.00 | 15 | \$28 | 94% | 0.4 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 32W T8 Lamp, Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | ROB | Lamp | 92 | 32% | 0.01 | 15 | \$29 | 94% | 0.8 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 28W T5 Lamp, Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | ROB | Lamp | 95 | 34% | 0.01 | 15 | \$22 | 94% | 1.2 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 32W T8 Lamp, Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | ROB | Lamp | 92 | 32% | 0.01 | 15 | \$29 | 94% | 0.8 |
| DLC | Occupancy Sensor | Lighting w/ No Controls | Healthcare | Lin. Fluor. Lighting | Existing | building | 214,884 | 24% | 0.2 | 8 | \$1,666 | 12% | 9.2 |
| DLC | Occupancy Sensor | Lighting w/ No Controls | Healthcare | Lin. Fluor. Lighting | New | building | 214,884 | 7.0% | 0.07 | 8 | \$1,666 | 0% | 2.7 |
| DLC | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Healthcare | Lin. Fluor. Lighting | Existing | building | 214,884 | 28% | 0.3 | 8 | \$5,444 | 11% | 3.3 |
| DLC | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Healthcare | Lin. Fluor. Lighting | New | building | 214,884 | 4.1% | 0.04 | 8 | \$5,444 | 0% | 0.5 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 40W T12 w/ Magnetic Ballast | Healthcare | Lin. Fluor. Lighting | Early | Lamp | 215 | 54% | 0.02 | 10 | \$9.1 | 94% | 6.9 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | Early | Lamp | 138 | 28% | 0.01 | 10 | \$9.1 | 24% | 2.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|--|------------|---------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Escalator Motor Controller | Constant power control | Healthcare | Motors | New | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 67% | 6.9 |
| DLC | Escalator Motor Controller | Constant power control | Healthcare | Motors | ROB | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 67% | 6.9 |
| DLC | Fan Motor - correct sizing | Incorrect Fan Motor Sizing | Healthcare | Motors | ROB | measure | 106,370 | 2.9% | 0.4 | 15 | \$50 | 92% | 43.8 |
| DLC | Variable Speed Drive Control, 15HP | Existing Motors w/out VSD Drive | Healthcare | Motors | Early | motor | 54,557 | 70% | 5.6 | 15 | \$731 | 86% | 38.9 |
| DLC | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Healthcare | Motors | New | motor | 53,384 | 72% | 5.6 | 15 | \$731 | 86% | 38.9 |
| DLC | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Healthcare | Motors | ROB | motor | 53,384 | 71% | 5.6 | 15 | \$731 | 86% | 38.8 |
| DLC | Variable Speed Drive Control, 40HP | Existing Motors w/out VSD Drive | Healthcare | Motors | Early | motor | 142,356 | 71% | 14.8 | 15 | \$4,666 | 86% | 16.1 |
| DLC | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Healthcare | Motors | New | motor | 140,692 | 72% | 14.8 | 15 | \$4,666 | 86% | 16.0 |
| DLC | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Healthcare | Motors | ROB | motor | 140,692 | 71% | 14.8 | 15 | \$4,666 | 86% | 16.0 |
| DLC | Variable Speed Drive Control, 5HP | Existing Motors w/out VFD Drive | Healthcare | Motors | Early | motor | 18,913 | 71% | 2.0 | 15 | \$2,243 | 86% | 4.5 |
| DLC | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Healthcare | Motors | New | motor | 18,490 | 72% | 1.9 | 15 | \$2,243 | 86% | 4.4 |
| DLC | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Healthcare | Motors | ROB | motor | 18,490 | 72% | 1.9 | 15 | \$2,243 | 86% | 4.4 |
| DLC | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Healthcare | Motors | Early | motor | 141,406 | 0.8% | 0.1 | 15 | \$268 | 40% | 3.0 |
| DLC | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Healthcare | Motors | New | motor | 141,406 | 0.8% | 0.1 | 15 | \$268 | 40% | 3.0 |
| DLC | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Healthcare | Motors | ROB | motor | 141,406 | 0.8% | 0.1 | 15 | \$268 | 40% | 3.0 |
| DLC | VFD on Chilled Water Pump | Motor w/out VFD Drive | Healthcare | Motors | Early | motor | 45,158 | 55% | 2.7 | 15 | \$2,903 | 86% | 6.1 |
| DLC | VFD on Chilled Water Pump | Motor w/out VFD Drive | Healthcare | Motors | New | motor | 44,313 | 55% | 2.7 | 15 | \$2,843 | 86% | 6.1 |
| DLC | VFD on Chilled Water Pump | Motor w/out VFD Drive | Healthcare | Motors | ROB | motor | 44,313 | 55% | 2.7 | 15 | \$2,843 | 86% | 6.1 |
| DLC | VFD on Condenser Water Pump | Motor w/out VFD Drive | Healthcare | Motors | Early | motor | 38,955 | 32% | 3.2 | 15 | \$2,903 | 86% | 3.7 |
| DLC | VFD on Condenser Water Pump | Motor w/out VFD Drive | Healthcare | Motors | New | motor | 38,226 | 33% | 3.1 | 15 | \$2,843 | 86% | 3.7 |
| DLC | VFD on Condenser Water Pump | Motor w/out VFD Drive | Healthcare | Motors | ROB | motor | 38,226 | 33% | 3.1 | 15 | \$2,843 | 86% | 3.7 |
| DLC | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Healthcare | Motors | Early | motor | 67,054 | 56% | 0.00 | 15 | \$2,903 | 86% | 7.8 |
| DLC | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Healthcare | Motors | New | motor | 65,800 | 57% | 0.00 | 15 | \$2,843 | 86% | 7.9 |
| DLC | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Healthcare | Motors | ROB | motor | 65,800 | 57% | 0.00 | 15 | \$2,843 | 86% | 7.9 |
| DLC | VFD on HVAC Fan | Motor w/out VFD | Healthcare | Motors | Early | motor | 48,837 | 70% | 3.4 | 15 | \$2,903 | 86% | 8.3 |
| DLC | VFD on HVAC Fan | Motor w/out VFD | Healthcare | Motors | New | motor | 47,923 | 72% | 3.3 | 15 | \$2,843 | 86% | 8.4 |
| DLC | VFD on HVAC Fan | Motor w/out VFD | Healthcare | Motors | ROB | motor | 47,923 | 72% | 3.3 | 15 | \$2,843 | 86% | 8.4 |
| DLC | Elevators | Std. Eff Elevator | Healthcare | Other | ROB | measure | 89,016 | 2.0% | 0.7 | 15 | \$2,110 | 81% | 0.8 |
| DLC | Variable Speed Drives on Process Equipment | Constant speed control | Healthcare | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 11.4 |
| DLC | Variable Speed Drives on Process Equipment | Constant speed control | Healthcare | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 11.4 |
| DLC | 9W Exit Sign Retrofit: CFL replacing Incandescent | One 23W Single Sided Incandescent Exit Sign | Healthcare | Other Int. Lighting | Early | exit sign | 138 | 42% | 0.01 | 15 | \$48 | 22% | 0.9 |
| DLC | Auto Off Time Switch | Lighting w/ No Controls | Healthcare | Other Int. Lighting | Existing | building | 173,874 | 24% | 0.2 | 8 | \$1,106 | 13% | 11.3 |
| DLC | Auto Off Time Switch | Lighting w/ No Controls | Healthcare | Other Int. Lighting | New | building | 173,874 | 7.0% | 0.07 | 8 | \$1,106 | 0% | 3.3 |
| DLC | Central Lighting Control System | Lighting w/ No Controls | Healthcare | Other Int. Lighting | Existing | building | 173,874 | 38% | 0.4 | 8 | \$1,106 | 13% | 17.9 |
| DLC | Central Lighting Control System | Lighting w/ No Controls | Healthcare | Other Int. Lighting | New | building | 173,874 | 14% | 0.1 | 8 | \$1,106 | 13% | 6.6 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 40W Incandescent Bulb | Healthcare | Other Int. Lighting | Early | lamp | 178 | 87% | 0.03 | 8 | \$30 | 14% | 2.2 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Healthcare | Other Int. Lighting | Early | lamp | 128 | 81% | 0.02 | 8 | \$30 | 11% | 1.5 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Healthcare | Other Int. Lighting | New | lamp | 97 | 81% | 0.02 | 8 | \$21 | 14% | 1.5 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Healthcare | Other Int. Lighting | New | lamp | 97 | 81% | 0.02 | 8 | \$23 | 14% | 1.5 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Healthcare | Other Int. Lighting | New | lamp | 97 | 81% | 0.02 | 8 | \$22 | 11% | 1.5 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Healthcare | Other Int. Lighting | ROB | lamp | 128 | 81% | 0.02 | 8 | \$21 | 14% | 2.0 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Healthcare | Other Int. Lighting | ROB | lamp | 128 | 81% | 0.02 | 8 | \$23 | 14% | 1.9 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Healthcare | Other Int. Lighting | ROB | lamp | 128 | 81% | 0.02 | 8 | \$22 | 11% | 2.0 |
| DLC | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Healthcare | Other Int. Lighting | Early | lamp | 178 | 75% | 0.03 | 3 | \$73 | 24% | 0.3 |
| DLC | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Healthcare | Other Int. Lighting | New | fixture | 194 | 65% | 0.03 | 13 | \$29 | 28% | 3.1 |
| DLC | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Healthcare | Other Int. Lighting | New | lamp | 97 | 65% | 0.01 | 3 | \$29 | 28% | 0.4 |
| DLC | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Healthcare | Other Int. Lighting | ROB | fixture | 255 | 65% | 0.03 | 13 | \$29 | 24% | 4.1 |
| DLC | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Healthcare | Other Int. Lighting | ROB | lamp | 128 | 65% | 0.02 | 3 | \$29 | 24% | 0.5 |
| DLC | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Healthcare | Other Int. Lighting | Early | lamp | 178 | 75% | 0.03 | 3 | \$3.2 | 24% | 6.8 |
| DLC | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Healthcare | Other Int. Lighting | New | lamp | 97 | 65% | 0.01 | 3 | \$1.8 | 24% | 5.8 |
| DLC | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Healthcare | Other Int. Lighting | ROB | lamp | 128 | 65% | 0.02 | 3 | \$1.8 | 24% | 7.7 |
| DLC | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Healthcare | Other Int. Lighting | ROB | lamp | 128 | 65% | 0.02 | 3 | \$1.8 | 24% | 7.7 |
| DLC | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Healthcare | Other Int. Lighting | New | building | 173,874 | 10% | 0.1 | 15 | \$32,147 | 32% | 0.3 |
| DLC | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Healthcare | Other Int. Lighting | New | building | 173,874 | 15% | 0.2 | 15 | \$80,367 | 32% | 0.2 |
| DLC | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Healthcare | Other Int. Lighting | New | building | 173,874 | 30% | 0.3 | 15 | \$115,193 | 32% | 0.3 |
| DLC | Indoor Daylight Sensors | Lighting w/ No Controls | Healthcare | Other Int. Lighting | Existing | building | 173,874 | 28% | 0.3 | 8 | \$5,444 | 13% | 2.7 |
| DLC | Indoor Daylight Sensors | Lighting w/ No Controls | Healthcare | Other Int. Lighting | New | building | 173,874 | 4.1% | 0.04 | 8 | \$5,444 | 0% | 0.4 |
| DLC | LED Exit Signs Single-sided (5W) | Existing Single-Sided Exit Signs (Average: 16 W) | Healthcare | Other Int. Lighting | Early | sign | 153 | 87% | 0.02 | 15 | \$48 | 16% | 2.0 |
| DLC | LED Exit Signs Single-sided (5W) | One 9W Single-Sided CFL Exit Sign | Healthcare | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 2.2 |
| DLC | LED Exit Signs Single-sided (5W) | One 9W Single-Sided CFL Exit Sign | Healthcare | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 2.2 |
| DLC | LED Task Lighting/Screw-In (10W) | 1 15W CFL bulb | Healthcare | Other Int. Lighting | Early | lamp | 37 | 33% | 0.00 | 10 | \$9.6 | 24% | 0.7 |
| DLC | LED Task Lighting/Screw-In (10W) | 1 60W Incandescent Bulb | Healthcare | Other Int. Lighting | Early | lamp | 150 | 83% | 0.03 | 10 | \$9.6 | 24% | 7.2 |
| DLC | LED Task Lighting/Screw-In (10W) | 1 43W EISA Compliant bulb | Healthcare | Other Int. Lighting | New | lamp | 82 | 77% | 0.01 | 10 | \$7.9 | 24% | 4.4 |
| DLC | LED Task Lighting/Screw-In (10W) | 1 43W EISA Compliant bulb | Healthcare | Other Int. Lighting | New | lamp | 82 | 77% | 0.01 | 10 | \$7.9 | 24% | 4.4 |
| DLC | LED Task Lighting/Screw-In (10W) | 1 43W EISA Compliant bulb | Healthcare | Other Int. Lighting | ROB | lamp | 107 | 77% | 0.02 | 10 | \$7.9 | 24% | 5.8 |
| DLC | LED Task Lighting/Screw-In (10W) | 1 43W EISA Compliant bulb | Healthcare | Other Int. Lighting | ROB | lamp | 107 | 77% | 0.02 | 10 | \$7.9 | 24% | 5.8 |
| DLC | Occupancy Sensor | Lighting w/ No Controls | Healthcare | Other Int. Lighting | Existing | building | 173,874 | 24% | 0.2 | 8 | \$1,666 | 11% | 7.5 |
| DLC | Occupancy Sensor | Lighting w/ No Controls | Healthcare | Other Int. Lighting | New | building | 173,874 | 7.0% | 0.07 | 8 | \$1,666 | 0% | 2.2 |
| DLC | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Healthcare | Other Int. Lighting | Existing | building | 173,874 | 28% | 0.3 | 8 | \$5,444 | 11% | 2.7 |
| DLC | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Healthcare | Other Int. Lighting | New | building | 173,874 | 4.1% | 0.04 | 8 | \$5,444 | 0% | 0.4 |
| DLC | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Healthcare | Other Int. Lighting | Early | exit sign | 138 | 100% | 0.02 | 15 | \$173 | 26% | 0.6 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|---|------------|---------------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Healthcare | Other Int. Lighting | New | exit sign | 80 | 100% | 0.01 | 15 | \$148 | 31% | 0.4 |
| DLC | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Healthcare | Other Int. Lighting | ROB | exit sign | 80 | 100% | 0.01 | 15 | \$148 | 26% | 0.4 |
| DLC | Time Clock Control | Lighting w/ No Controls | Healthcare | Other Int. Lighting | Existing | building | 173,874 | 28% | 0.3 | 8 | \$1,106 | 13% | 13.2 |
| DLC | Time Clock Control | Lighting w/ No Controls | Healthcare | Other Int. Lighting | New | building | 173,874 | 4.1% | 0.04 | 8 | \$1,106 | 0% | 1.9 |
| DLC | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Healthcare | Plug Load | Existing | building | 6,419 | 46% | 0.5 | 5 | \$189 | 4% | 3.7 |
| DLC | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Healthcare | Plug Load | New | building | 6,419 | 46% | 0.5 | 5 | \$189 | 4% | 3.7 |
| DLC | Data Center - Server/Storage Consolidation | No Consolidation | Healthcare | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| DLC | Data Center - Server/Storage Consolidation | No Consolidation | Healthcare | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| DLC | Data Center - Server/Storage Virtualization | No Virtualization | Healthcare | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| DLC | Data Center - Server/Storage Virtualization | No Virtualization | Healthcare | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| DLC | Energy Star - Scanners | Std Scanner | Healthcare | Plug Load | New | measure | 68 | 3.9% | 0.04 | 4 | \$777 | 7% | 0.0 |
| DLC | Energy Star - Scanners | Std Scanner | Healthcare | Plug Load | ROB | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| DLC | Energy Star Battery Charging System (for small cordless products) | Std. Battery Charging System | Healthcare | Plug Load | ROB | measure | 593 | 2.3% | 4.8 | 5 | \$65 | 4% | 28.5 |
| DLC | Energy Star Dishwasher | Existing Dishwasher units | Healthcare | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,580 | 6% | 1.1 |
| DLC | Energy Star Dishwasher | Standard Dishwasher unit | Healthcare | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 6% | 3.5 |
| DLC | Energy Star Dishwasher | Standard Dishwasher unit | Healthcare | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 6% | 3.5 |
| DLC | Energy Star External Power Adapter | Std. Power Adapter | Healthcare | Plug Load | New | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| DLC | Energy Star External Power Adapter | Std. Power Adapter | Healthcare | Plug Load | ROB | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| DLC | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Healthcare | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 17% | 0.2 |
| DLC | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Healthcare | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.1 |
| DLC | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Healthcare | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.1 |
| DLC | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Healthcare | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 9% | 0.7 |
| DLC | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Healthcare | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.5 |
| DLC | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Healthcare | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.5 |
| DLC | ENERGY STAR® Copiers | 10% Less Efficient Copier | Healthcare | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 80% | 0.0 |
| DLC | ENERGY STAR® Copiers | One Conventional Copier | Healthcare | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 80% | 0.0 |
| DLC | ENERGY STAR® Copiers | One Conventional Copier | Healthcare | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 80% | 0.0 |
| DLC | ENERGY STAR® desktop | Standard computer | Healthcare | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 69% | 0.1 |
| DLC | ENERGY STAR® desktop | Standard computer | Healthcare | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.1 |
| DLC | ENERGY STAR® desktop | Standard computer | Healthcare | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.1 |
| DLC | ENERGY STAR® Fax | 10% Less Efficient Fax | Healthcare | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 15% | 0.0 |
| DLC | ENERGY STAR® Fax | One Conventional Fax | Healthcare | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.1 |
| DLC | ENERGY STAR® Fax | One Conventional Fax | Healthcare | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.1 |
| DLC | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Healthcare | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 70% | 0.0 |
| DLC | ENERGY STAR® Monitors | One Conventional Monitor | Healthcare | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| DLC | ENERGY STAR® Monitors | One Conventional Monitor | Healthcare | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| DLC | ENERGY STAR® Printers | 10% Less Efficient Printer | Healthcare | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 44% | 0.0 |
| DLC | ENERGY STAR® Printers | One Conventional Printer | Healthcare | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| DLC | ENERGY STAR® Printers | One Conventional Printer | Healthcare | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| DLC | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Healthcare | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 43% | 0.1 |
| DLC | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Healthcare | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.8 |
| DLC | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Healthcare | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.8 |
| DLC | ENERGY STAR® Televisions | 10% Less Efficient Television | Healthcare | Plug Load | Early | Unit | 230 | 38% | 0.02 | 6 | \$672 | 40% | 0.0 |
| DLC | ENERGY STAR® Televisions | One Conventional Television | Healthcare | Plug Load | New | Unit | 209 | 32% | 0.01 | 6 | \$206 | 40% | 0.1 |
| DLC | ENERGY STAR® Televisions | One Conventional Television | Healthcare | Plug Load | ROB | Unit | 209 | 32% | 0.01 | 6 | \$206 | 40% | 0.1 |
| DLC | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Healthcare | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 24% | 0.3 |
| DLC | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Healthcare | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.7 |
| DLC | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Healthcare | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.7 |
| DLC | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Healthcare | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 73% | 0.3 |
| DLC | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Healthcare | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 73% | 0.3 |
| DLC | Network PC Power Management | No PC Power Management | Healthcare | Plug Load | Existing | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 51.7 |
| DLC | Network PC Power Management | No PC Power Management | Healthcare | Plug Load | New | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 51.7 |
| DLC | Smart Strip Plug Outlets | Standard plug strip/outlet | Healthcare | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.2 |
| DLC | Smart Strip Plug Outlets | Standard plug strip/outlet | Healthcare | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.2 |
| DLC | Smart Strip Plug Outlets | Standard plug strip/outlet | Healthcare | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| DLC | Smart Strip Plug Outlets | Standard plug strip/outlet | Healthcare | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| DLC | Smart Strip Plug Outlets | Standard plug strip/outlet | Healthcare | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| DLC | Smart Strip Plug Outlets | Standard plug strip/outlet | Healthcare | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| DLC | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Healthcare | Plug Load | Existing | building | 6,419 | 46% | 0.5 | 5 | \$180 | 3% | 3.9 |
| DLC | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Healthcare | Plug Load | New | building | 6,419 | 46% | 0.5 | 5 | \$180 | 3% | 3.9 |
| DLC | Air curtain technology | Strip plastic curtain | Healthcare | Refrigeration | New | building | 2,037 | 6.8% | 0.07 | 8 | \$1,742 | 35% | 0.0 |
| DLC | Air curtain technology | Strip plastic curtain | Healthcare | Refrigeration | New | building | 22,663 | 6.8% | 0.07 | 8 | \$1,678 | 35% | 0.3 |
| DLC | Auto Closer on Refrigerator Door | Door w/out Autocloser | Healthcare | Refrigeration | Existing | building | 2,037 | 11% | 0.1 | 8 | \$749 | 40% | 0.2 |
| DLC | Auto Closer on Refrigerator Door | Door w/out Autocloser | Healthcare | Refrigeration | Existing | building | 22,663 | 6.7% | 0.07 | 8 | \$833 | 40% | 0.6 |
| DLC | Auto Closer on Refrigerator Door | Door w/out Autocloser | Healthcare | Refrigeration | New | building | 2,037 | 11% | 0.1 | 8 | \$749 | 40% | 0.2 |
| DLC | Auto Closer on Refrigerator Door | Door w/out Autocloser | Healthcare | Refrigeration | New | building | 22,663 | 6.7% | 0.07 | 8 | \$833 | 40% | 0.6 |
| DLC | Door Gasket- Freezer | Door w/out Gasket | Healthcare | Refrigeration | Existing | building | 2,037 | 5.8% | 0.06 | 4 | \$77 | 29% | 0.5 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|--|------------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Door Gasket- Freezer | Door w/out Gasket | Healthcare | Refrigeration | New | building | 2,037 | 5.8% | 0.06 | 4 | \$77 | 29% | 0.5 |
| DLC | Door Gasket- Refrigerator | Door w/out Gasket | Healthcare | Refrigeration | Existing | building | 22,663 | 2.1% | 0.02 | 4 | \$115 | 45% | 0.7 |
| DLC | Door Gasket- Refrigerator | Door w/out Gasket | Healthcare | Refrigeration | New | building | 22,663 | 2.1% | 0.02 | 4 | \$115 | 45% | 0.7 |
| DLC | Economizer for Walk-in Coolers | No Economizer | Healthcare | Refrigeration | Early | measure | 25,239 | 6.6% | 0.2 | 10 | \$293 | 72% | 2.8 |
| DLC | Economizer for Walk-in Coolers | No Economizer | Healthcare | Refrigeration | Early | measure | 25,239 | 6.6% | 0.2 | 10 | \$293 | 72% | 2.8 |
| DLC | Economizer for Walk-in Coolers | No Economizer | Healthcare | Refrigeration | Early | measure | 25,239 | 6.6% | 0.2 | 10 | \$293 | 72% | 2.8 |
| DLC | Economizer for Walk-in Coolers | No Economizer | Healthcare | Refrigeration | New | measure | 25,239 | 6.6% | 0.2 | 10 | \$35 | 72% | 23.7 |
| DLC | Economizer for Walk-in Coolers | No Economizer | Healthcare | Refrigeration | New | measure | 25,239 | 6.6% | 0.2 | 10 | \$35 | 72% | 23.7 |
| DLC | Economizer for Walk-in Coolers | No Economizer | Healthcare | Refrigeration | ROB | measure | 25,239 | 6.6% | 0.2 | 10 | \$35 | 72% | 23.7 |
| DLC | Economizer for Walk-in Coolers | No Economizer | Healthcare | Refrigeration | ROB | measure | 25,239 | 6.6% | 0.2 | 10 | \$35 | 72% | 23.7 |
| DLC | eCube | Refrigeration unit w/out eCube | Healthcare | Refrigeration | Existing | building | 22,663 | 15% | 0.2 | 15 | \$443 | 57% | 5.0 |
| DLC | eCube | Refrigeration unit w/out eCube | Healthcare | Refrigeration | New | building | 22,663 | 15% | 0.2 | 15 | \$443 | 57% | 5.0 |
| DLC | Efficient compressor motor | Base Refrigeration System - Grocery | Healthcare | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.3 |
| DLC | Efficient compressor motor | Base Refrigeration System - Grocery | Healthcare | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.3 |
| DLC | Efficient compressor motor | Base Refrigeration System - Grocery | Healthcare | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.3 |
| DLC | Efficient compressor motor | Base Refrigeration System - Grocery | Healthcare | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.3 |
| DLC | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Healthcare | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.6 |
| DLC | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Healthcare | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| DLC | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Healthcare | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| DLC | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Healthcare | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.3 |
| DLC | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Healthcare | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.8 |
| DLC | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Healthcare | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.8 |
| DLC | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Healthcare | Refrigeration | Existing | building | 22,663 | 0.7% | 0.01 | 10 | \$369 | 77% | 0.2 |
| DLC | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Healthcare | Refrigeration | New | building | 22,663 | 0.7% | 0.01 | 10 | \$369 | 77% | 0.2 |
| DLC | Floating head pressure controller | System w/out FHPC | Healthcare | Refrigeration | Existing | building | 2,037 | 12% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| DLC | Floating head pressure controller | System w/out FHPC | Healthcare | Refrigeration | Existing | building | 22,663 | 0.4% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| DLC | Floating head pressure controller | System w/out FHPC | Healthcare | Refrigeration | New | building | 2,037 | 12% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| DLC | Floating head pressure controller | System w/out FHPC | Healthcare | Refrigeration | New | building | 22,663 | 0.4% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| DLC | High Efficiency Commercial Freezer | Std. Commercial Freezer | Healthcare | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 84% | 0.4 |
| DLC | High Efficiency Commercial Freezer | Std. Commercial Freezer | Healthcare | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 84% | 4.4 |
| DLC | High Efficiency Commercial Freezer | Std. Commercial Freezer | Healthcare | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 84% | 4.4 |
| DLC | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Healthcare | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 21% | 0.1 |
| DLC | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Healthcare | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$406 | 21% | 1.0 |
| DLC | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Healthcare | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$406 | 21% | 1.0 |
| DLC | High Efficiency Ice Maker | Existing Standard Efficiency Ice Maker in Pennsylvania | Healthcare | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 69% | 0.2 |
| DLC | High Efficiency Ice Maker | Standard code minimum Ice Maker | Healthcare | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 69% | 0.2 |
| DLC | High Efficiency Ice Maker | Standard code minimum Ice Maker | Healthcare | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 69% | 0.2 |
| DLC | High Efficiency Ice Making Head | Standard Ice Making Head | Healthcare | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 4.1 |
| DLC | High Efficiency Ice Making Head | Standard Ice Making Head | Healthcare | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 4.1 |
| DLC | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Healthcare | Refrigeration | Early | Fixture | 373 | 56% | 0.02 | 8 | \$448 | 86% | 0.2 |
| DLC | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Healthcare | Refrigeration | New | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 86% | 0.3 |
| DLC | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Healthcare | Refrigeration | ROB | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 86% | 0.3 |
| DLC | Quick acting freezer doors | Std. Freezer Doors | Healthcare | Refrigeration | Existing | building | 2,037 | 13% | 0.1 | 10 | \$2,101 | 56% | 0.1 |
| DLC | Quick acting freezer doors | Std. Freezer Doors | Healthcare | Refrigeration | New | building | 2,037 | 13% | 0.1 | 10 | \$2,101 | 56% | 0.1 |
| DLC | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Healthcare | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 29% | 0.5 |
| DLC | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Healthcare | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 29% | 1.8 |
| DLC | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Healthcare | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 29% | 1.8 |
| DLC | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 29% | 1.8 |
| DLC | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 29% | 3.3 |
| DLC | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 29% | 3.3 |
| DLC | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 29% | 1.9 |
| DLC | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 29% | 4.4 |
| DLC | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 29% | 4.4 |
| DLC | Refrigeration Commissioning | Non-commissioned refrigeration system | Healthcare | Refrigeration | Existing | building | 25,464 | 9.5% | 0.10 | 3 | \$1,147 | 85% | 0.3 |
| DLC | Refrigeration Commissioning | Non-commissioned refrigeration system | Healthcare | Refrigeration | New | building | 25,464 | 9.5% | 0.10 | 3 | \$1,147 | 85% | 0.3 |
| DLC | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Healthcare | Refrigeration | Existing | building | 2,037 | 14% | 0.1 | 4 | \$93 | 22% | 0.9 |
| DLC | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Healthcare | Refrigeration | Existing | building | 22,663 | 2.9% | 0.03 | 4 | \$140 | 22% | 0.7 |
| DLC | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Healthcare | Refrigeration | New | building | 2,037 | 14% | 0.1 | 4 | \$93 | 22% | 0.9 |
| DLC | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Healthcare | Refrigeration | New | building | 22,663 | 2.9% | 0.03 | 4 | \$140 | 22% | 0.7 |
| DLC | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Healthcare | Refrigeration | Existing | building | 2,037 | 2.6% | 0.03 | 11 | \$130 | 77% | 0.3 |
| DLC | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Healthcare | Refrigeration | New | building | 2,037 | 2.6% | 0.03 | 11 | \$130 | 77% | 0.3 |
| DLC | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Healthcare | Refrigeration | Existing | building | 22,663 | 2.0% | 0.02 | 11 | \$130 | 77% | 1.6 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|--|------------|-----------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Healthcare | Refrigeration | New | building | 22,663 | 2.0% | 0.02 | 11 | \$130 | 77% | 1.6 |
| DLC | Vendor Miser | No Vendor Miser | Healthcare | Refrigeration | Existing | machine | 1,019 | 12% | 0.1 | 8 | \$102 | 7% | 1.1 |
| DLC | VSD Controlled Compressor | Compressor w/out VSD | Healthcare | Refrigeration | Early | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 73% | 0.2 |
| DLC | VSD Controlled Compressor | Compressor w/out VSD | Healthcare | Refrigeration | New | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 73% | 0.2 |
| DLC | VSD Controlled Compressor | Compressor w/out VSD | Healthcare | Refrigeration | ROB | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 73% | 0.2 |
| DLC | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Healthcare | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$268 | 35% | 1.0 |
| DLC | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Healthcare | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$268 | 35% | 1.0 |
| DLC | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Healthcare | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.5 |
| DLC | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Healthcare | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 3.3 |
| DLC | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Healthcare | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.5 |
| DLC | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Healthcare | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 3.3 |
| DLC | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 35% | 2.7 |
| DLC | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 35% | 2.5 |
| DLC | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 5.7 |
| DLC | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 5.4 |
| DLC | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 5.7 |
| DLC | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 5.4 |
| DLC | Adding reflective roof treatment | Std color roof | Healthcare | Space Heating | Existing | building | 33,511 | 7.1% | 0.07 | 6 | \$15,042 | 82% | 0.0 |
| DLC | Adding reflective roof treatment | Std color roof | Healthcare | Space Heating | New | building | 33,511 | 7.1% | 0.07 | 6 | \$15,042 | 82% | 0.0 |
| DLC | Adding window shade film | No shade film | Healthcare | Space Heating | Existing | building | 33,511 | 1.3% | 0.4 | 10 | \$408 | 13% | 1.1 |
| DLC | Adding window shade film | No shade film | Healthcare | Space Heating | New | building | 33,511 | 1.3% | 0.4 | 10 | \$408 | 13% | 1.1 |
| DLC | Adding window shade screen | No shade screen | Healthcare | Space Heating | Existing | building | 33,511 | 1.1% | 0.01 | 10 | \$158 | 13% | 1.0 |
| DLC | Adding window shade screen | No shade screen | Healthcare | Space Heating | New | building | 33,511 | 1.1% | 0.01 | 10 | \$158 | 13% | 1.0 |
| DLC | Automated control system | Manual Controls | Healthcare | Space Heating | Existing | building | 33,511 | 17% | 0.2 | 15 | \$36,687 | 51% | 0.1 |
| DLC | Automated control system | Manual Controls | Healthcare | Space Heating | New | building | 33,511 | 17% | 0.2 | 15 | \$36,687 | 94% | 0.1 |
| DLC | Ceiling Insulations (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Healthcare | Space Heating | Existing | building | 33,511 | 1.1% | 0.01 | 15 | \$20,566 | 71% | 0.0 |
| DLC | Ceiling Insulations (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Healthcare | Space Heating | New | building | 33,511 | 0.3% | 0.00 | 15 | \$19,549 | 94% | 0.0 |
| DLC | Duct Insulation, Add R8 | No Insulation | Healthcare | Space Heating | Existing | building | 33,511 | 1.4% | 0.04 | 15 | \$266 | 20% | 1.2 |
| DLC | Duct Insulation, Add R8 | No Insulation | Healthcare | Space Heating | New | building | 33,511 | 1.4% | 0.04 | 15 | \$266 | 10% | 1.2 |
| DLC | Efficient Unit Heating System | Existing Unit Heaters in PA | Healthcare | Space Heating | Early | heater | 20,078 | 23% | 0.03 | 15 | \$3,289 | 83% | 0.8 |
| DLC | Efficient Unit Heating System | Std. Unit Heater | Healthcare | Space Heating | New | heater | 17,819 | 13% | 0.02 | 15 | \$1,991 | 83% | 0.7 |
| DLC | Efficient Unit Heating System | Std. Unit Heater | Healthcare | Space Heating | ROB | heater | 17,819 | 13% | 0.02 | 15 | \$1,991 | 83% | 0.7 |
| DLC | Facility Commissioning | No Facility Commissioning | Healthcare | Space Heating | New | building | 33,511 | 16% | 0.2 | 10 | \$67,587 | 89% | 0.0 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Healthcare | Space Heating | Existing | building | 33,511 | 7.1% | 0.07 | 15 | \$148,647 | 25% | 0.0 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Healthcare | Space Heating | New | building | 33,511 | 7.1% | 0.07 | 15 | \$148,647 | 35% | 0.0 |
| DLC | Hi Eff HVAC System Design | No HVAC Design | Healthcare | Space Heating | New | building | 33,511 | 8.6% | 0.09 | 10 | \$657,319 | 51% | 0.0 |
| DLC | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Healthcare | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 1.1 |
| DLC | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Healthcare | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 1.1 |
| DLC | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Healthcare | Space Heating | Existing | building | 33,511 | 2.1% | 0.02 | 10 | \$7,735 | 81% | 0.0 |
| DLC | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Healthcare | Space Heating | New | building | 33,511 | 2.1% | 0.02 | 10 | \$7,735 | 81% | 0.0 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Healthcare | Space Heating | Existing | building | 33,511 | 3.6% | 0.04 | 11 | \$286 | 49% | 1.9 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Healthcare | Space Heating | New | building | 33,511 | 3.1% | 0.03 | 11 | \$146 | 49% | 3.3 |
| DLC | Re-Commissioning (Existing Construction) | No Re-Commissioning | Healthcare | Space Heating | Existing | building | 33,511 | 16% | 0.2 | 5 | \$8,847 | 86% | 0.1 |
| DLC | VFD on Cooling Tower Fan | Motor w/out VFD | Healthcare | Space Heating | Early | motor | 48,837 | 70% | 3.4 | 15 | \$2,843 | 88% | 8.4 |
| DLC | VFD on Cooling Tower Fan | Motor w/out VFD | Healthcare | Space Heating | New | motor | 47,923 | 72% | 3.3 | 15 | \$2,843 | 88% | 8.4 |
| DLC | VFD on Cooling Tower Fan | Motor w/out VFD | Healthcare | Space Heating | ROB | motor | 47,923 | 72% | 3.3 | 15 | \$2,843 | 88% | 8.4 |
| DLC | Wall Insulations (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Healthcare | Space Heating | Existing | building | 33,511 | 2.6% | 0.03 | 15 | \$5,624 | 26% | 0.1 |
| DLC | Wall Insulations (Going upto R 21) | Code minimum Wall Insulations | Healthcare | Space Heating | New | building | 33,511 | 0.1% | 0.00 | 15 | \$4,314 | 94% | 0.0 |
| DLC | 80W Induction Street Lighting | One 100W HPS Street Light Fixture | Healthcare | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 0% | 0.3 |
| DLC | 80W Induction Street Lighting | One 100W HPS Street Light Fixture | Healthcare | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.9 |
| DLC | 80W Induction Street Lighting | One 100W HPS Street Light Fixture | Healthcare | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.9 |
| DLC | Green LED Traffic Light | Green Incandescent Traffic Light | Healthcare | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 0% | 1.3 |
| DLC | Green LED Traffic Light | Green Incandescent Traffic Light | Healthcare | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.2 |
| DLC | Green LED Traffic Light | Green Incandescent Traffic Light | Healthcare | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.2 |
| DLC | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Healthcare | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 0% | 3.1 |
| DLC | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Healthcare | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| DLC | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Healthcare | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| DLC | LED Street Lighting (67W) | One 100W HPS Street Light | Healthcare | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 0% | 0.2 |
| DLC | LED Street Lighting (67W) | One 100W HPS Street Light | Healthcare | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.4 |
| DLC | LED Street Lighting (67W) | One 100W HPS Street Light | Healthcare | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.4 |
| DLC | Red LED Traffic Light | One Red Incandescent Traffic Light | Healthcare | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 0% | 1.7 |
| DLC | Red LED Traffic Light | One Red Incandescent Traffic Light | Healthcare | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| DLC | Red LED Traffic Light | One Red Incandescent Traffic Light | Healthcare | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| DLC | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Healthcare | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 0% | 0.1 |
| DLC | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Healthcare | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| DLC | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Healthcare | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| DLC | Demand controlled Circulating Systems | Constant circulation system | Healthcare | Water Heating | Existing | building | 1,981 | 20% | 0.2 | 15 | \$359 | 59% | 1.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|---|------------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Demand controlled Circulating Systems | Constant circulation system | Healthcare | Water Heating | New | building | 1,981 | 20% | 0.2 | 15 | \$359 | 59% | 1.2 |
| DLC | Drainwater Heat Recovery Water Heater | No heat recovery | Healthcare | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 2.1 |
| DLC | Drainwater Heat Recovery Water Heater | No heat recovery | Healthcare | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 2.1 |
| DLC | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Healthcare | Water Heating | Existing | building | 1,981 | 5.9% | 0.06 | 12 | \$140 | 85% | 0.7 |
| DLC | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Healthcare | Water Heating | New | building | 1,981 | 5.9% | 0.06 | 12 | \$40 | 85% | 2.6 |
| DLC | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Healthcare | Water Heating | Early | water heater | 96,871 | 66% | 11.3 | 10 | \$3,562 | 68% | 9.3 |
| DLC | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Healthcare | Water Heating | Early | water heater | 96,871 | 66% | 11.3 | 10 | \$3,562 | 68% | 9.3 |
| DLC | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Healthcare | Water Heating | New | water heater | 96,871 | 66% | 11.3 | 10 | \$3,562 | 68% | 9.3 |
| DLC | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Healthcare | Water Heating | New | water heater | 96,871 | 66% | 11.3 | 10 | \$3,562 | 68% | 9.3 |
| DLC | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Healthcare | Water Heating | ROB | water heater | 94,180 | 65% | 10.9 | 10 | \$3,562 | 68% | 8.9 |
| DLC | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Healthcare | Water Heating | ROB | water heater | 94,180 | 65% | 10.9 | 10 | \$3,562 | 68% | 8.9 |
| DLC | Heat Recovery Unit | Base Water Heating | Healthcare | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.8 |
| DLC | Heat Recovery Unit | Base Water Heating | Healthcare | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.8 |
| DLC | Heat Trap | No Heat Trap | Healthcare | Water Heating | Existing | building | 1,981 | 1.0% | 0.01 | 11 | \$0.4 | 50% | 43.4 |
| DLC | Heat Trap | No Heat Trap | Healthcare | Water Heating | New | building | 1,981 | 1.0% | 0.01 | 11 | \$0.2 | 50% | 113.2 |
| DLC | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Healthcare | Water Heating | Early | water heater | 96,871 | 5.9% | 1.0 | 15 | \$921 | 79% | 4.8 |
| DLC | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Healthcare | Water Heating | Early | water heater | 96,871 | 5.9% | 1.0 | 15 | \$921 | 79% | 4.8 |
| DLC | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Healthcare | Water Heating | New | water heater | 94,180 | 3.2% | 0.5 | 15 | \$921 | 79% | 2.6 |
| DLC | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Healthcare | Water Heating | New | water heater | 94,180 | 3.2% | 0.5 | 15 | \$921 | 79% | 2.6 |
| DLC | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Healthcare | Water Heating | ROB | water heater | 94,180 | 3.2% | 0.5 | 15 | \$921 | 79% | 2.6 |
| DLC | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Healthcare | Water Heating | ROB | water heater | 94,180 | 3.2% | 0.5 | 15 | \$921 | 79% | 2.6 |
| DLC | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Healthcare | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$466 | 81% | 43.7 |
| DLC | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Healthcare | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 22.8 |
| DLC | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Healthcare | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 22.8 |
| DLC | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Healthcare | Water Heating | Existing | building | 1,981 | 3.1% | 0.03 | 13 | \$9.2 | 68% | 6.4 |
| DLC | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Healthcare | Water Heating | New | building | 1,981 | 3.1% | 0.03 | 13 | \$9.2 | 0% | 6.5 |
| DLC | Hot Water Circulation Pump Time-Clock | Constant circulation system | Healthcare | Water Heating | Existing | building | 1,981 | 5.3% | 0.05 | 10 | \$8.0 | 72% | 9.9 |
| DLC | Hot Water Circulation Pump Time-Clock | Constant circulation system | Healthcare | Water Heating | New | building | 1,981 | 5.3% | 0.05 | 10 | \$8.0 | 72% | 9.9 |
| DLC | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Healthcare | Water Heating | Existing | building | 1,763 | 0.1% | 0.00 | 7 | \$22 | 78% | 0.0 |
| DLC | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Healthcare | Water Heating | New | building | 1,763 | 0.1% | 0.00 | 7 | \$0.5 | 78% | 2.0 |
| DLC | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Healthcare | Water Heating | Existing | building | 1,981 | 9.7% | 0.10 | 5 | \$300 | 20% | 0.2 |
| DLC | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Healthcare | Water Heating | New | building | 1,981 | 6.4% | 0.06 | 5 | \$194 | 20% | 0.2 |
| DLC | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Healthcare | Water Heating | Existing | building | 1,981 | 6.5% | 0.07 | 9 | \$250 | 9% | 0.3 |
| DLC | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Healthcare | Water Heating | New | building | 1,981 | 6.5% | 0.07 | 9 | \$60 | 9% | 1.4 |
| DLC | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Healthcare | Water Heating | Early | water heater | 96,871 | 52% | 4.1 | 15 | \$18,666 | 32% | 1.9 |
| DLC | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Healthcare | Water Heating | New | water heater | 94,180 | 51% | 3.9 | 15 | \$18,666 | 32% | 1.8 |
| DLC | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Healthcare | Water Heating | ROB | water heater | 94,180 | 51% | 3.9 | 15 | \$18,666 | 32% | 1.8 |
| DLC | Ultrasonic Faucet Control | Manual Faucet Control | Healthcare | Water Heating | Existing | building | 1,981 | 3.0% | 0.03 | 10 | \$343 | 77% | 0.1 |
| DLC | Ultrasonic Faucet Control | Manual Faucet Control | Healthcare | Water Heating | New | building | 1,981 | 3.1% | 0.03 | 10 | \$343 | 77% | 0.1 |
| DLC | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Healthcare | Water Heating | Existing | building | 1,981 | 2.2% | 0.02 | 4 | \$28 | 83% | 0.5 |
| DLC | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Healthcare | Water Heating | New | building | 1,981 | 2.3% | 0.02 | 4 | \$28 | 83% | 0.5 |
| DLC | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Lodging | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.2 |
| DLC | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Lodging | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.2 |
| DLC | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Lodging | Cooking | Early | steamer | 51 | 46% | 0.00 | 12 | \$5,053 | 81% | 0.0 |
| DLC | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Lodging | Cooking | New | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| DLC | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Lodging | Cooking | ROB | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| DLC | Electric combination oven (Energy Star) | Standard Oven | Lodging | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 3.3 |
| DLC | Electric combination oven (Energy Star) | Standard Oven | Lodging | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 3.3 |
| DLC | Electric Convection Oven ENERTY STAR (74% Eff) | Conventional convection oven w/ 65% efficiency | Lodging | Cooking | Early | oven | 8,641 | 37% | 0.6 | 12 | \$4,119 | 81% | 0.5 |
| DLC | Electric Convection Oven ENERTY STAR (74% Eff) | Conventional convection oven w/ 70% efficiency | Lodging | Cooking | New | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.8 |
| DLC | Electric Convection Oven ENERTY STAR (74% Eff) | Conventional convection oven w/ 70% efficiency | Lodging | Cooking | ROB | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.8 |
| DLC | High Efficiency Fryer (ENERGY STAR 84% Eff) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Lodging | Cooking | Early | fryer | 6,105 | 23% | 0.3 | 12 | \$9,241 | 86% | 0.1 |
| DLC | High Efficiency Fryer (ENERGY STAR 84% Eff) | Standard Electric Fryer meeting Code Minimum | Lodging | Cooking | New | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.4 |
| DLC | High Efficiency Fryer (ENERGY STAR 84% Eff) | Standard Electric Fryer meeting Code Minimum | Lodging | Cooking | ROB | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.4 |
| DLC | High Efficiency Griddle (ENERGY STAR 75% Eff) | Efficiency code minimum griddle (70% eff) | Lodging | Cooking | Early | griddle | 11,317 | 65% | 1.4 | 12 | \$4,977 | 86% | 1.0 |
| DLC | High Efficiency Griddle (ENERGY STAR 75% Eff) | Conventional Griddle w/ 60% efficiency | Lodging | Cooking | New | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.3 |
| DLC | High Efficiency Griddle (ENERGY STAR 75% Eff) | Conventional Griddle w/ 60% efficiency | Lodging | Cooking | ROB | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.3 |
| DLC | High Efficiency Induction Cooking | Standard Cooking | Lodging | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.2 |
| DLC | High Efficiency Induction Cooking | Standard Cooking | Lodging | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.2 |
| DLC | Adding reflective roof treatment | Std color roof | Lodging | Cooling Central | Existing | building | 5,030 | 7.0% | 0.07 | 6 | \$17,503 | 82% | 0.0 |
| DLC | Adding reflective roof treatment | Std color roof | Lodging | Cooling Central | New | building | 5,030 | 7.0% | 0.07 | 6 | \$17,503 | 82% | 0.0 |
| DLC | Adding window shade film | No shade film | Lodging | Cooling Central | Existing | building | 5,030 | 1.3% | 0.4 | 10 | \$61 | 12% | 4.7 |
| DLC | Adding window shade film | No shade film | Lodging | Cooling Central | New | building | 5,030 | 1.3% | 0.4 | 10 | \$61 | 13% | 4.7 |
| DLC | Adding window shade screen | No shade screen | Lodging | Cooling Central | Existing | building | 5,030 | 1.1% | 0.01 | 10 | \$24 | 13% | 1.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|---|---------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Adding window shade screen | No shade screen | Lodging | Cooling Central | New | building | 5,030 | 1.1% | 0.01 | 10 | \$24 | 13% | 1.2 |
| DLC | Automated control system | Manual Controls | Lodging | Cooling Central | Existing | building | 5,030 | 17% | 0.2 | 15 | \$5,507 | 51% | 0.1 |
| DLC | Automated control system | Manual Controls | Lodging | Cooling Central | New | building | 5,030 | 17% | 0.2 | 15 | \$5,507 | 94% | 0.1 |
| DLC | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Lodging | Cooling Central | Existing | building | 5,030 | 3.3% | 0.03 | 15 | \$23,552 | 71% | 0.0 |
| DLC | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Lodging | Cooling Central | New | building | 5,030 | 1.1% | 0.01 | 15 | \$22,387 | 94% | 0.0 |
| DLC | Chiller Tuneup/Diagnostics | No tuneup | Lodging | Cooling Central | Existing | building | 5,030 | 8.0% | 0.08 | 10 | \$12,845 | 59% | 0.0 |
| DLC | Chiller Tuneup/Diagnostics | No tuneup | Lodging | Cooling Central | New | building | 5,030 | 8.0% | 0.08 | 10 | \$12,845 | 59% | 0.0 |
| DLC | Commercial energy recovery ventilation systems | No Commercial Recovery System | Lodging | Cooling Central | Existing | building | 5,030 | 16% | 0.2 | 14 | \$4,546 | 71% | 0.1 |
| DLC | Cooling Tower Optimization | No Cooling Tower Optimization | Lodging | Cooling Central | Existing | building | 5,030 | 20% | 0.2 | 10 | \$31 | 69% | 17.1 |
| DLC | Duct Insulation, Add R8 | No Insulation | Lodging | Cooling Central | Existing | building | 5,030 | 1.4% | 0.04 | 15 | \$40 | 20% | 2.0 |
| DLC | Duct Insulation, Add R8 | No Insulation | Lodging | Cooling Central | New | building | 5,030 | 1.4% | 0.04 | 15 | \$40 | 10% | 2.0 |
| DLC | Facility Commissioning | No Facility Commissioning | Lodging | Cooling Central | New | building | 5,030 | 16% | 0.2 | 10 | \$2,299 | 89% | 0.2 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Lodging | Cooling Central | Existing | building | 5,030 | 7.0% | 0.07 | 15 | \$22,313 | 25% | 0.0 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Lodging | Cooling Central | New | building | 5,030 | 7.0% | 0.07 | 15 | \$22,313 | 35% | 0.0 |
| DLC | Hi Eff HVAC System Design | No HVAC Design | Lodging | Cooling Central | New | building | 5,030 | 7.3% | 0.07 | 10 | \$65,797 | 51% | 0.0 |
| DLC | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Lodging | Cooling Central | Early | ton | 14,787 | 24% | 1.2 | 15 | \$108,550 | 88% | 0.0 |
| DLC | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Lodging | Cooling Central | New | ton | 12,088 | 6.7% | 0.3 | 15 | \$12,927 | 88% | 0.1 |
| DLC | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Lodging | Cooling Central | ROB | ton | 12,088 | 6.7% | 0.3 | 15 | \$12,927 | 88% | 0.1 |
| DLC | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Lodging | Cooling Central | Early | ton | 22,095 | 23% | 1.8 | 15 | \$140,105 | 88% | 0.0 |
| DLC | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Lodging | Cooling Central | New | ton | 17,776 | 4.8% | 0.3 | 15 | \$9,336 | 88% | 0.1 |
| DLC | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Lodging | Cooling Central | ROB | ton | 17,776 | 4.9% | 0.3 | 15 | \$9,336 | 88% | 0.1 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Lodging | Cooling Central | Early | ton | 180,879 | 26% | 16.3 | 15 | \$105,354 | 88% | 0.4 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Lodging | Cooling Central | New | ton | 157,597 | 15% | 8.2 | 15 | \$30,530 | 88% | 0.7 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Lodging | Cooling Central | ROB | ton | 157,597 | 15% | 8.2 | 15 | \$30,530 | 88% | 0.7 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Lodging | Cooling Central | Early | ton | 270,907 | 23% | 21.5 | 15 | \$154,107 | 88% | 0.4 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Lodging | Cooling Central | New | ton | 248,862 | 16% | 13.9 | 15 | \$27,646 | 88% | 1.4 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Lodging | Cooling Central | ROB | ton | 270,907 | 23% | 21.5 | 15 | \$27,646 | 88% | 2.1 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Lodging | Cooling Central | Early | ton | 449,925 | 23% | 35.3 | 15 | \$302,924 | 88% | 0.3 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Lodging | Cooling Central | New | ton | 407,215 | 14% | 20.4 | 15 | \$115,432 | 88% | 0.5 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Lodging | Cooling Central | ROB | ton | 449,925 | 23% | 35.3 | 15 | \$115,432 | 88% | 0.8 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Lodging | Cooling Central | Early | ton | 539,911 | 23% | 42.4 | 15 | \$350,154 | 88% | 0.3 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Lodging | Cooling Central | New | ton | 488,657 | 14% | 24.6 | 15 | \$120,406 | 88% | 0.6 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Lodging | Cooling Central | ROB | ton | 539,911 | 23% | 42.4 | 15 | \$120,406 | 88% | 1.0 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Lodging | Cooling Central | Early | ton | 119,676 | 29% | 12.2 | 15 | \$83,632 | 88% | 0.4 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Lodging | Cooling Central | New | ton | 92,927 | 8.9% | 2.9 | 15 | \$40,211 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Lodging | Cooling Central | ROB | ton | 119,676 | 29% | 12.2 | 15 | \$40,211 | 88% | 0.8 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Lodging | Cooling Central | Early | ton | 205,633 | 35% | 24.9 | 15 | \$132,173 | 88% | 0.5 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Lodging | Cooling Central | New | ton | 153,367 | 13% | 6.7 | 15 | \$39,556 | 88% | 0.5 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Lodging | Cooling Central | ROB | ton | 153,367 | 13% | 6.7 | 15 | \$39,556 | 88% | 0.5 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Lodging | Cooling Central | Early | ton | 343,320 | 39% | 46.7 | 15 | \$187,029 | 88% | 0.7 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Lodging | Cooling Central | New | ton | 244,782 | 15% | 12.4 | 15 | \$33,554 | 88% | 1.0 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Lodging | Cooling Central | ROB | ton | 343,320 | 39% | 46.7 | 15 | \$33,554 | 88% | 3.8 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Lodging | Cooling Central | Early | ton | 60,076 | 30% | 6.2 | 15 | \$32,398 | 88% | 0.5 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Lodging | Cooling Central | New | ton | 47,597 | 11% | 1.8 | 15 | \$7,188 | 88% | 0.7 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Lodging | Cooling Central | ROB | ton | 60,076 | 30% | 6.2 | 15 | \$7,188 | 88% | 2.3 |
| DLC | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Lodging | Cooling Central | Existing | building | 5,030 | 3.5% | 0.04 | 10 | \$2,396 | 81% | 0.0 |
| DLC | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Lodging | Cooling Central | New | building | 5,030 | 3.5% | 0.04 | 10 | \$2,396 | 81% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|---|---------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Lodging | Cooling Central | Existing | building | 5,030 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.2 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Lodging | Cooling Central | New | building | 5,030 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.4 |
| DLC | Re-Commissioning (Existing Construction) | No Re-Commissioning | Lodging | Cooling Central | Existing | building | 5,030 | 16% | 0.2 | 5 | \$12,530 | 86% | 0.0 |
| DLC | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Lodging | Cooling Central | Existing | building | 5,030 | 8.0% | 0.08 | 15 | \$6,019 | 26% | 0.1 |
| DLC | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Lodging | Cooling Central | New | building | 5,030 | 0.2% | 0.00 | 15 | \$4,617 | 94% | 0.0 |
| DLC | <65k BTU/hr 14 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Lodging | Cooling Unitary | Early | ton | 4,519 | 16% | 0.4 | 15 | \$1,545 | 29% | 0.5 |
| DLC | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Lodging | Cooling Unitary | New | ton | 4,093 | 7.1% | 0.2 | 15 | \$339 | 29% | 1.0 |
| DLC | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Lodging | Cooling Unitary | ROB | ton | 4,093 | 7.1% | 0.2 | 15 | \$339 | 29% | 1.0 |
| DLC | <65k BTU/hr 15 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Lodging | Cooling Unitary | Early | ton | 4,519 | 22% | 0.5 | 15 | \$1,821 | 30% | 0.6 |
| DLC | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Lodging | Cooling Unitary | New | ton | 4,093 | 13% | 0.3 | 15 | \$714 | 30% | 0.9 |
| DLC | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Lodging | Cooling Unitary | ROB | ton | 4,093 | 13% | 0.3 | 15 | \$714 | 30% | 0.9 |
| DLC | <65k BTU/hr 16 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Lodging | Cooling Unitary | Early | ton | 4,519 | 26% | 0.7 | 15 | \$2,098 | 31% | 0.7 |
| DLC | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Lodging | Cooling Unitary | New | ton | 4,093 | 19% | 0.4 | 15 | \$1,089 | 31% | 0.8 |
| DLC | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Lodging | Cooling Unitary | ROB | ton | 4,093 | 19% | 0.4 | 15 | \$1,089 | 31% | 0.8 |
| DLC | >760k min 10.2 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Lodging | Cooling Unitary | Early | ton | 114,336 | 3.7% | 2.4 | 15 | \$68,066 | 56% | 0.1 |
| DLC | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Lodging | Cooling Unitary | New | ton | 115,802 | 4.9% | 3.2 | 15 | \$6,231 | 56% | 1.0 |
| DLC | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Lodging | Cooling Unitary | ROB | ton | 115,802 | 4.9% | 3.2 | 15 | \$6,231 | 56% | 1.0 |
| DLC | 135-240k min 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Lodging | Cooling Unitary | Early | ton | 28,133 | 18% | 2.9 | 15 | \$18,135 | 79% | 0.3 |
| DLC | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Lodging | Cooling Unitary | New | ton | 25,591 | 10.0% | 1.4 | 15 | \$1,948 | 79% | 1.5 |
| DLC | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Lodging | Cooling Unitary | ROB | ton | 25,591 | 10.0% | 1.4 | 15 | \$1,948 | 79% | 1.5 |
| DLC | 240k-760k min 11 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Lodging | Cooling Unitary | Early | ton | 75,221 | 9.0% | 3.8 | 15 | \$44,809 | 66% | 0.2 |
| DLC | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Lodging | Cooling Unitary | New | ton | 75,408 | 9.3% | 3.9 | 15 | \$4,813 | 66% | 1.7 |
| DLC | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Lodging | Cooling Unitary | ROB | ton | 75,408 | 9.3% | 3.9 | 15 | \$4,813 | 66% | 1.7 |
| DLC | 65k-135k BTU/hr 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Lodging | Cooling Unitary | Early | ton | 16,584 | 17% | 1.6 | 15 | \$10,946 | 86% | 0.3 |
| DLC | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Lodging | Cooling Unitary | New | ton | 14,780 | 6.7% | 0.6 | 15 | \$1,392 | 86% | 0.8 |
| DLC | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Lodging | Cooling Unitary | ROB | ton | 14,780 | 6.7% | 0.6 | 15 | \$1,392 | 86% | 0.8 |
| DLC | Adding reflective roof treatment | Std color roof | Lodging | Cooling Unitary | Existing | building | 60,006 | 7.1% | 0.07 | 6 | \$17,503 | 82% | 0.1 |
| DLC | Adding reflective roof treatment | Std color roof | Lodging | Cooling Unitary | New | building | 60,006 | 7.1% | 0.07 | 6 | \$17,503 | 82% | 0.1 |
| DLC | Adding window shade film | No shade film | Lodging | Cooling Unitary | Existing | building | 60,006 | 1.3% | 0.4 | 10 | \$730 | 12% | 0.8 |
| DLC | Adding window shade film | No shade film | Lodging | Cooling Unitary | New | building | 60,006 | 1.3% | 0.4 | 10 | \$730 | 13% | 0.8 |
| DLC | Adding window shade screen | No shade screen | Lodging | Cooling Unitary | Existing | building | 60,006 | 1.1% | 0.01 | 10 | \$282 | 12% | 0.9 |
| DLC | Adding window shade screen | No shade screen | Lodging | Cooling Unitary | New | building | 60,006 | 1.1% | 0.01 | 10 | \$282 | 13% | 0.9 |
| DLC | Automated control system | Manual Controls | Lodging | Cooling Unitary | Existing | building | 60,006 | 17% | 0.2 | 15 | \$65,692 | 51% | 0.1 |
| DLC | Automated control system | Manual Controls | Lodging | Cooling Unitary | New | building | 60,006 | 17% | 0.2 | 15 | \$65,692 | 94% | 0.1 |
| DLC | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Lodging | Cooling Unitary | Existing | building | 60,006 | 3.4% | 0.03 | 15 | \$23,552 | 71% | 0.1 |
| DLC | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Lodging | Cooling Unitary | New | building | 60,006 | 1.1% | 0.01 | 15 | \$22,387 | 94% | 0.0 |
| DLC | Commercial energy recovery ventilation systems | No Commercial Recovery System | Lodging | Cooling Unitary | Existing | building | 60,006 | 16% | 0.2 | 14 | \$54,224 | 71% | 0.1 |
| DLC | Duct Insulation, Add R8 | No Insulation | Lodging | Cooling Unitary | Existing | building | 60,006 | 1.4% | 0.04 | 15 | \$477 | 20% | 1.1 |
| DLC | Duct Insulation, Add R8 | No Insulation | Lodging | Cooling Unitary | New | building | 60,006 | 1.4% | 0.04 | 15 | \$477 | 10% | 1.1 |
| DLC | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Lodging | Cooling Unitary | Existing | building | 33,003 | 13% | 0.1 | 1 | \$316 | 73% | 0.6 |
| DLC | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Lodging | Cooling Unitary | New | building | 33,003 | 13% | 0.1 | 1 | \$316 | 73% | 0.6 |
| DLC | ECM Motors for split systems | Std Shaded Pole Motor | Lodging | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 3.2 |
| DLC | ECM Motors for split systems | Std Shaded Pole Motor | Lodging | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 3.2 |
| DLC | Facility Commissioning | No Facility Commissioning | Lodging | Cooling Unitary | New | building | 60,006 | 16% | 0.2 | 10 | \$974 | 89% | 4.1 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Lodging | Cooling Unitary | Existing | building | 60,006 | 7.1% | 0.07 | 15 | \$266,171 | 25% | 0.0 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Lodging | Cooling Unitary | New | building | 60,006 | 7.1% | 0.07 | 15 | \$266,171 | 35% | 0.0 |
| DLC | Hi Eff HVAC System Design | No HVAC Design | Lodging | Cooling Unitary | New | building | 60,006 | 7.3% | 0.07 | 10 | \$6,714 | 51% | 0.3 |
| DLC | Hotel Occupancy Sensor | HVAC system w/out Occupancy Sensors | Lodging | Cooling Unitary | Existing | building | 60,006 | 3.5% | 0.04 | 15 | \$11,644 | 89% | 0.1 |
| DLC | Hotel Occupancy Sensor | HVAC system w/out Occupancy Sensors | Lodging | Cooling Unitary | New | building | 60,006 | 3.5% | 0.04 | 15 | \$11,644 | 94% | 0.1 |
| DLC | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Lodging | Cooling Unitary | Existing | building | 60,006 | 5.0% | 0.05 | 5 | \$225 | 59% | 2.5 |
| DLC | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Lodging | Cooling Unitary | Existing | building | 60,006 | 0.2% | 0.04 | 5 | \$225 | 51% | 0.2 |
| DLC | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Lodging | Cooling Unitary | New | building | 60,006 | 0.2% | 0.04 | 5 | \$135 | 51% | 0.3 |
| DLC | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Lodging | Cooling Unitary | Existing | building | 60,006 | 3.5% | 0.04 | 10 | \$2,575 | 86% | 0.3 |
| DLC | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Lodging | Cooling Unitary | New | building | 60,006 | 3.5% | 0.04 | 10 | \$2,575 | 86% | 0.3 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) | Lodging | Cooling Unitary | Existing | building | 60,006 | 2.0% | 0.02 | 11 | \$286 | 49% | 1.9 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Lodging | Cooling Unitary | New | building | 60,006 | 1.7% | 0.02 | 11 | \$146 | 49% | 3.2 |
| DLC | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Lodging | Cooling Unitary | Early | unit | 473 | 19% | 0.2 | 15 | \$849 | 85% | 0.2 |
| DLC | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Lodging | Cooling Unitary | New | unit | 478 | 20% | 0.2 | 15 | \$356 | 85% | 0.6 |
| DLC | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Lodging | Cooling Unitary | ROB | unit | 478 | 20% | 0.2 | 15 | \$356 | 85% | 0.6 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|--|---------|-----------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Re-Commissioning (Existing Construction) | No Re-Commissioning | Lodging | Cooling Unitary | Existing | building | 60,006 | 16% | 0.2 | 5 | \$12,530 | 86% | 0.1 |
| DLC | Room AC (w/ louvered sides) | Existing efficiency Room AC in Pennsylvania (2000 Federal Standards) | Lodging | Cooling Unitary | Early | ton | 2,000 | 13% | 0.09 | 9 | \$348 | 82% | 0.4 |
| DLC | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Lodging | Cooling Unitary | New | ton | 1,813 | 4.5% | 0.03 | 9 | \$17 | 82% | 2.7 |
| DLC | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Lodging | Cooling Unitary | ROB | ton | 1,813 | 4.5% | 0.03 | 9 | \$17 | 82% | 2.7 |
| DLC | Wall Insualtions (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Lodging | Cooling Unitary | Existing | building | 60,006 | 8.2% | 0.08 | 15 | \$6,019 | 26% | 0.5 |
| DLC | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Lodging | Cooling Unitary | New | building | 60,006 | 0.2% | 0.00 | 15 | \$4,617 | 94% | 0.0 |
| DLC | 80W Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Lodging | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 0% | 0.2 |
| DLC | 80W Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Lodging | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| DLC | 80W Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Lodging | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| DLC | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Lodging | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 1.2 |
| DLC | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Lodging | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.7 |
| DLC | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Lodging | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.7 |
| DLC | LED exterior lighting | 250 Watt Incandescent | Lodging | Ext. Lighting | ROB | measure | 529 | 83% | 0.07 | 15 | \$104 | 89% | 3.2 |
| DLC | LED exterior lighting | 250 Watt Incandescent | Lodging | Ext. Lighting | ROB | measure | 529 | 83% | 0.07 | 15 | \$104 | 89% | 3.2 |
| DLC | LED exterior lighting | 250 Watt Incandescent | Lodging | Ext. Lighting | ROB | measure | 529 | 83% | 0.07 | 15 | \$104 | 89% | 3.2 |
| DLC | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Lodging | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 75% | 0.3 |
| DLC | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Lodging | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 75% | 0.2 |
| DLC | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Lodging | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 3.1 |
| DLC | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Lodging | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.3 |
| DLC | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Lodging | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 3.1 |
| DLC | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Lodging | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.3 |
| DLC | Photocell Controls (Outdoor) | Lighting w/ No Controls | Lodging | Ext. Lighting | Existing | building | 259 | 28% | 0.3 | 8 | \$4,117 | 88% | 0.0 |
| DLC | Photocell Controls (Outdoor) | Lighting w/ No Controls | Lodging | Ext. Lighting | New | building | 259 | 28% | 0.3 | 8 | \$4,117 | 0% | 0.0 |
| DLC | Adding reflective roof treatment | Std color roof | Lodging | Heat Pump | Existing | building | 5,415 | 6.9% | 0.07 | 6 | \$17,503 | 82% | 0.0 |
| DLC | Adding reflective roof treatment | Std color roof | Lodging | Heat Pump | New | building | 5,415 | 6.9% | 0.07 | 6 | \$17,503 | 82% | 0.0 |
| DLC | Adding window shade film | No shade film | Lodging | Heat Pump | Existing | building | 5,415 | 3.9% | 0.4 | 10 | \$66 | 12% | 5.2 |
| DLC | Adding window shade film | No shade film | Lodging | Heat Pump | New | building | 5,415 | 3.9% | 0.4 | 10 | \$66 | 12% | 5.2 |
| DLC | Adding window shade screen | No shade screen | Lodging | Heat Pump | Existing | building | 5,415 | 0.3% | 0.01 | 10 | \$8.5 | 12% | 1.7 |
| DLC | Adding window shade screen | No shade screen | Lodging | Heat Pump | New | building | 5,415 | 0.3% | 0.01 | 10 | \$8.5 | 12% | 1.7 |
| DLC | Automated control system | Manual Controls | Lodging | Heat Pump | Existing | building | 5,415 | 17% | 0.2 | 15 | \$5,928 | 51% | 0.1 |
| DLC | Automated control system | Manual Controls | Lodging | Heat Pump | New | building | 5,415 | 17% | 0.2 | 15 | \$5,928 | 94% | 0.1 |
| DLC | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Lodging | Heat Pump | Existing | building | 5,415 | 3.3% | 0.03 | 15 | \$23,552 | 71% | 0.0 |
| DLC | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Lodging | Heat Pump | New | building | 5,415 | 1.1% | 0.01 | 15 | \$22,387 | 94% | 0.0 |
| DLC | Commercial energy recovery ventilation systems | No Commercial Recovery System | Lodging | Heat Pump | Existing | building | 5,415 | 16% | 0.2 | 14 | \$333,530 | 71% | 0.0 |
| DLC | Duct Insulation, Add R8 | No Insulation | Lodging | Heat Pump | Existing | building | 5,415 | 4.0% | 0.04 | 15 | \$43 | 12% | 4.0 |
| DLC | Duct Insulation, Add R8 | No Insulation | Lodging | Heat Pump | New | building | 5,415 | 4.0% | 0.04 | 15 | \$43 | 6% | 3.9 |
| DLC | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Lodging | Heat Pump | Early | heat pump | 4,660 | 12% | 0.05 | 15 | \$4,070 | 83% | 0.1 |
| DLC | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Lodging | Heat Pump | New | heat pump | 4,475 | 7.9% | 0.03 | 15 | \$1,097 | 83% | 0.2 |
| DLC | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Lodging | Heat Pump | ROB | heat pump | 4,475 | 7.9% | 0.03 | 15 | \$1,097 | 83% | 0.2 |
| DLC | Facility Commissioning | No Facility Commissioning | Lodging | Heat Pump | New | building | 5,415 | 16% | 0.2 | 10 | \$2,299 | 89% | 0.2 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Lodging | Heat Pump | Existing | building | 5,415 | 7.0% | 0.07 | 15 | \$24,018 | 25% | 0.0 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Lodging | Heat Pump | New | building | 5,415 | 7.0% | 0.07 | 15 | \$24,018 | 35% | 0.0 |
| DLC | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Lodging | Heat Pump | Early | heat pump | 47,434 | 15% | 0.6 | 15 | \$91,117 | 19% | 0.1 |
| DLC | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Lodging | Heat Pump | New | heat pump | 45,989 | 12% | 0.5 | 15 | \$33,927 | 19% | 0.1 |
| DLC | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Lodging | Heat Pump | ROB | heat pump | 45,989 | 12% | 0.5 | 15 | \$33,927 | 19% | 0.1 |
| DLC | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Lodging | Heat Pump | Early | heat pump | 47,434 | 15% | 0.6 | 15 | \$58,356 | 19% | 0.1 |
| DLC | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Lodging | Heat Pump | New | heat pump | 45,989 | 12% | 0.5 | 15 | \$1,167 | 19% | 3.2 |
| DLC | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Lodging | Heat Pump | ROB | heat pump | 45,989 | 12% | 0.5 | 15 | \$1,167 | 19% | 3.2 |
| DLC | Hi Eff HVAC System Design | No HVAC Design | Lodging | Heat Pump | New | building | 5,415 | 7.3% | 0.07 | 10 | \$65,797 | 51% | 0.0 |
| DLC | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Lodging | Heat Pump | Early | heat pump | 12,425 | 16% | 0.2 | 12 | \$4,298 | 81% | 0.3 |
| DLC | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Lodging | Heat Pump | New | heat pump | 11,935 | 12% | 0.1 | 12 | \$852 | 81% | 1.0 |
| DLC | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Lodging | Heat Pump | ROB | heat pump | 11,935 | 12% | 0.1 | 12 | \$852 | 81% | 1.0 |
| DLC | Hotel Occupancy Sensor | HVAC system w/out Occupancy Sensors | Lodging | Heat Pump | Existing | building | 5,415 | 3.5% | 0.04 | 15 | \$11,644 | 89% | 0.0 |
| DLC | Hotel Occupancy Sensor | HVAC system w/out Occupancy Sensors | Lodging | Heat Pump | New | building | 5,415 | 3.5% | 0.04 | 15 | \$11,644 | 94% | 0.0 |
| DLC | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Lodging | Heat Pump | Existing | building | 5,415 | 5.0% | 0.02 | 5 | \$90 | 51% | 0.6 |
| DLC | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Lodging | Heat Pump | New | building | 5,415 | 5.0% | 0.02 | 5 | \$90 | 51% | 0.6 |
| DLC | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Lodging | Heat Pump | Existing | building | 5,415 | 3.5% | 0.04 | 10 | \$2,292 | 81% | 0.0 |
| DLC | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Lodging | Heat Pump | New | building | 5,415 | 3.5% | 0.04 | 10 | \$2,292 | 81% | 0.0 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Lodging | Heat Pump | Existing | building | 5,415 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.3 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Lodging | Heat Pump | New | building | 5,415 | 2.1% | 0.02 | 11 | \$146 | 49% | 0.5 |
| DLC | Re-Commissioning (Existing Construction) | No Re-Commissioning | Lodging | Heat Pump | Existing | building | 5,415 | 16% | 0.2 | 5 | \$12,530 | 86% | 0.0 |
| DLC | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Lodging | Heat Pump | New | measure | 763,332 | 2.0% | 1.7 | 13 | \$96,095 | 43% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|---|---------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Lodging | Heat Pump | ROB | measure | 763,332 | 2.0% | 1.7 | 13 | \$96,095 | 43% | 0.1 |
| DLC | Wall Insualtions (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Lodging | Heat Pump | Existing | building | 5,415 | 8.0% | 0.08 | 15 | \$6,019 | 26% | 0.1 |
| DLC | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Lodging | Heat Pump | New | building | 5,415 | 0.2% | 0.00 | 15 | \$4,617 | 94% | 0.0 |
| DLC | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Lodging | Heat Pump | Early | heat pump | 20,230 | 37% | 0.6 | 15 | \$35,347 | 28% | 0.1 |
| DLC | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Lodging | Heat Pump | New | heat pump | 19,409 | 34% | 0.6 | 15 | \$15,739 | 28% | 0.3 |
| DLC | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Lodging | Heat Pump | ROB | heat pump | 19,409 | 34% | 0.6 | 15 | \$15,739 | 28% | 0.3 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Lodging | High Bay Lighting | Early | Fixture | 754 | 9.6% | 0.01 | 13 | \$850 | 39% | 0.1 |
| DLC | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Lodging | High Bay Lighting | Early | Fixture | 753 | 9.5% | 0.01 | 13 | \$850 | 28% | 0.1 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Lodging | High Bay Lighting | Early | Fixture | 1,162 | 41% | 0.07 | 13 | \$850 | 36% | 0.4 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Lodging | High Bay Lighting | New | Fixture | 573 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Lodging | High Bay Lighting | New | Fixture | 533 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Lodging | High Bay Lighting | New | Fixture | 883 | 41% | 0.05 | 13 | \$397 | 36% | 0.6 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Lodging | High Bay Lighting | ROB | Fixture | 754 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Lodging | High Bay Lighting | ROB | Fixture | 701 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Lodging | High Bay Lighting | ROB | Fixture | 1,162 | 41% | 0.07 | 13 | \$397 | 36% | 0.8 |
| DLC | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Lodging | High Bay Lighting | Early | Fixture | 1,463 | 19% | 0.04 | 13 | \$851 | 38% | 0.2 |
| DLC | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Lodging | High Bay Lighting | Early | Fixture | 1,481 | 20% | 0.04 | 13 | \$851 | 38% | 0.2 |
| DLC | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | Early | Fixture | 4,309 | 73% | 0.5 | 13 | \$851 | 38% | 2.4 |
| DLC | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Lodging | High Bay Lighting | New | Fixture | 1,112 | 19% | 0.03 | 13 | \$372 | 38% | 0.4 |
| DLC | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | New | Fixture | 3,275 | 73% | 0.4 | 13 | \$383 | 38% | 4.1 |
| DLC | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Lodging | High Bay Lighting | ROB | Fixture | 1,463 | 19% | 0.04 | 13 | \$372 | 38% | 0.5 |
| DLC | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | ROB | Fixture | 4,309 | 73% | 0.5 | 13 | \$383 | 38% | 5.4 |
| DLC | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Lodging | High Bay Lighting | Early | Fixture | 1,463 | 25% | 0.05 | 13 | \$554 | 29% | 0.4 |
| DLC | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Lodging | High Bay Lighting | Early | Fixture | 1,436 | 23% | 0.05 | 13 | \$554 | 28% | 0.4 |
| DLC | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | Early | Fixture | 4,309 | 74% | 0.5 | 13 | \$554 | 36% | 3.8 |
| DLC | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Lodging | High Bay Lighting | New | Fixture | 1,112 | 25% | 0.04 | 13 | \$75 | 29% | 2.4 |
| DLC | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | New | Fixture | 3,275 | 74% | 0.4 | 13 | \$86 | 36% | 18.7 |
| DLC | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Lodging | High Bay Lighting | ROB | Fixture | 1,463 | 25% | 0.05 | 13 | \$75 | 29% | 3.2 |
| DLC | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | ROB | Fixture | 4,309 | 74% | 0.5 | 13 | \$86 | 36% | 24.6 |
| DLC | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Lodging | High Bay Lighting | Early | Fixture | 381 | 0.2% | 0.00 | 13 | \$835 | 38% | 0.0 |
| DLC | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Lodging | High Bay Lighting | Early | Fixture | 822 | 54% | 0.07 | 13 | \$835 | 38% | 0.3 |
| DLC | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Lodging | High Bay Lighting | New | Fixture | 625 | 54% | 0.05 | 13 | \$382 | 38% | 0.6 |
| DLC | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Lodging | High Bay Lighting | ROB | Fixture | 822 | 54% | 0.07 | 13 | \$382 | 38% | 0.8 |
| DLC | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Lodging | High Bay Lighting | Early | Fixture | 1,864 | 18% | 0.05 | 13 | \$487 | 25% | 0.5 |
| DLC | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Lodging | High Bay Lighting | Early | Fixture | 1,949 | 22% | 0.06 | 13 | \$487 | 28% | 0.6 |
| DLC | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | Early | Fixture | 4,309 | 65% | 0.4 | 13 | \$487 | 36% | 3.8 |
| DLC | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Lodging | High Bay Lighting | New | Fixture | 1,417 | 18% | 0.04 | 13 | \$16 | 25% | 10.5 |
| DLC | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | New | Fixture | 3,275 | 65% | 0.3 | 13 | \$18 | 36% | 75.8 |
| DLC | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Lodging | High Bay Lighting | ROB | Fixture | 1,864 | 18% | 0.05 | 13 | \$16 | 25% | 13.8 |
| DLC | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | ROB | Fixture | 4,309 | 65% | 0.4 | 13 | \$18 | 36% | 99.8 |
| DLC | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Lodging | High Bay Lighting | Early | Fixture | 1,864 | 1.5% | 0.00 | 13 | \$557 | 19% | 0.0 |
| DLC | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Lodging | High Bay Lighting | Early | Fixture | 1,919 | 4.3% | 0.01 | 13 | \$557 | 19% | 0.1 |
| DLC | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | Early | Fixture | 4,309 | 57% | 0.4 | 13 | \$557 | 19% | 2.9 |
| DLC | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Lodging | High Bay Lighting | New | Fixture | 1,417 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.2 |
| DLC | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | New | Fixture | 3,275 | 57% | 0.3 | 13 | \$88 | 19% | 14.0 |
| DLC | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Lodging | High Bay Lighting | ROB | Fixture | 1,864 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.2 |
| DLC | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | ROB | Fixture | 4,309 | 57% | 0.4 | 13 | \$88 | 19% | 18.5 |
| DLC | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Lodging | High Bay Lighting | Early | Fixture | 791 | 29% | 0.02 | 13 | \$492 | 71% | 0.3 |
| DLC | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Lodging | High Bay Lighting | Early | Fixture | 662 | 15% | 0.01 | 13 | \$492 | 95% | 0.1 |
| DLC | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Lodging | High Bay Lighting | Early | Fixture | 983 | 43% | 0.04 | 13 | \$492 | 95% | 0.5 |
| DLC | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Lodging | High Bay Lighting | Early | Fixture | 911 | 38% | 0.04 | 13 | \$492 | 95% | 0.4 |
| DLC | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Lodging | High Bay Lighting | New | Fixture | 503 | 15% | 0.01 | 13 | \$25 | 95% | 1.9 |
| DLC | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Lodging | High Bay Lighting | New | Fixture | 747 | 43% | 0.03 | 13 | \$51 | 95% | 3.9 |
| DLC | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Lodging | High Bay Lighting | ROB | Fixture | 662 | 15% | 0.01 | 13 | \$25 | 95% | 2.5 |
| DLC | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Lodging | High Bay Lighting | ROB | Fixture | 983 | 43% | 0.04 | 13 | \$51 | 95% | 5.1 |
| DLC | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Lodging | High Bay Lighting | Early | lamp | 147 | 16% | 0.00 | 7 | \$7.7 | 99% | 1.1 |
| DLC | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Lodging | High Bay Lighting | New | lamp | 87 | 13% | 0.00 | 7 | \$1.6 | 91% | 2.4 |
| DLC | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Lodging | High Bay Lighting | ROB | lamp | 141 | 13% | 0.00 | 7 | \$1.6 | 91% | 3.8 |
| DLC | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Lodging | High Bay Lighting | Early | Fixture | 4,409 | 23% | 0.2 | 13 | \$613 | 5% | 1.1 |
| DLC | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Lodging | High Bay Lighting | Early | Fixture | 3,464 | 1.6% | 0.01 | 13 | \$613 | 28% | 0.1 |
| DLC | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | Early | Fixture | 8,618 | 60% | 0.8 | 13 | \$613 | 18% | 5.6 |
| DLC | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Lodging | High Bay Lighting | New | Fixture | 3,351 | 23% | 0.1 | 13 | \$96 | 5% | 5.2 |
| DLC | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Lodging | High Bay Lighting | ROB | Fixture | 4,409 | 23% | 0.2 | 13 | \$96 | 5% | 6.9 |
| DLC | 85W Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Lodging | High Bay Lighting | Early | Fixture | 4,409 | 92% | 0.6 | 13 | \$1,916 | 95% | 1.4 |
| DLC | 85W Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | Early | Fixture | 8,618 | 96% | 1.2 | 13 | \$1,916 | 95% | 2.8 |
| DLC | 85W Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Lodging | High Bay Lighting | New | Fixture | 3,351 | 92% | 0.5 | 13 | \$1,468 | 95% | 1.4 |
| DLC | 85W Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | New | Fixture | 6,550 | 96% | 0.9 | 13 | \$1,149 | 95% | 3.6 |
| DLC | 85W Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Lodging | High Bay Lighting | ROB | Fixture | 4,409 | 92% | 0.6 | 13 | \$1,468 | 95% | 1.8 |
| DLC | 85W Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | ROB | Fixture | 8,618 | 96% | 1.2 | 13 | \$1,149 | 95% | 4.7 |
| DLC | Auto Off Time Switch | Lighting w/ No Controls | Lodging | High Bay Lighting | Existing | building | 463 | 24% | 0.2 | 8 | \$837 | 13% | 0.2 |
| DLC | Auto Off Time Switch | Lighting w/ No Controls | Lodging | High Bay Lighting | New | building | 463 | 6.9% | 0.07 | 8 | \$837 | 0% | 0.1 |
| DLC | Central Lighting Control System | Lighting w/ No Controls | Lodging | High Bay Lighting | Existing | building | 463 | 38% | 0.4 | 8 | \$837 | 13% | 0.3 |
| DLC | Central Lighting Control System | Lighting w/ No Controls | Lodging | High Bay Lighting | New | building | 463 | 14% | 0.1 | 8 | \$837 | 13% | 0.1 |
| DLC | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Lodging | High Bay Lighting | New | building | 463 | 10% | 0.1 | 15 | \$45,527 | 32% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|--|---------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Lodging | High Bay Lighting | New | building | 463 | 15% | 0.2 | 15 | \$113,817 | 32% | 0.0 |
| DLC | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Lodging | High Bay Lighting | New | building | 463 | 30% | 0.3 | 15 | \$163,138 | 32% | 0.0 |
| DLC | Indoor Daylight Sensors | Lighting w/ No Controls | Lodging | High Bay Lighting | Existing | building | 463 | 28% | 0.3 | 8 | \$4,117 | 13% | 0.0 |
| DLC | Indoor Daylight Sensors | Lighting w/ No Controls | Lodging | High Bay Lighting | New | building | 463 | 4.1% | 0.04 | 8 | \$4,117 | 0% | 0.0 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 365 W High Pressure Sodium Fixture | Lodging | High Bay Lighting | Early | Fixture | 1,463 | 67% | 0.1 | 13 | \$960 | 95% | 0.7 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 1075 W Mercury Vapor Fixture | Lodging | High Bay Lighting | Early | Fixture | 4,309 | 89% | 0.6 | 13 | \$960 | 95% | 2.6 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 295 W Metal Halide Fixture | Lodging | High Bay Lighting | Early | Fixture | 1,183 | 59% | 0.1 | 13 | \$960 | 95% | 0.5 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 365 W High Pressure Sodium Fixture | Lodging | High Bay Lighting | New | Fixture | 1,112 | 67% | 0.1 | 13 | \$480 | 95% | 1.0 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 1075 W Mercury Vapor Fixture | Lodging | High Bay Lighting | New | Fixture | 3,275 | 89% | 0.4 | 13 | \$491 | 95% | 3.9 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 295 W Metal Halide Fixture | Lodging | High Bay Lighting | New | Fixture | 899 | 59% | 0.08 | 13 | \$406 | 95% | 0.9 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 365 W High Pressure Sodium Fixture | Lodging | High Bay Lighting | ROB | Fixture | 1,463 | 67% | 0.1 | 13 | \$480 | 95% | 1.3 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 1075 W Mercury Vapor Fixture | Lodging | High Bay Lighting | ROB | Fixture | 4,309 | 89% | 0.6 | 13 | \$491 | 95% | 5.1 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 295 W Metal Halide Fixture | Lodging | High Bay Lighting | ROB | Fixture | 1,183 | 59% | 0.1 | 13 | \$406 | 95% | 1.1 |
| DLC | Occupancy Sensor | Lighting w/ No Controls | Lodging | High Bay Lighting | Existing | building | 463 | 24% | 0.2 | 8 | \$1,260 | 12% | 0.1 |
| DLC | Occupancy Sensor | Lighting w/ No Controls | Lodging | High Bay Lighting | New | building | 463 | 6.9% | 0.07 | 8 | \$1,260 | 0% | 0.0 |
| DLC | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Lodging | High Bay Lighting | Existing | building | 463 | 28% | 0.3 | 8 | \$4,117 | 12% | 0.0 |
| DLC | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Lodging | High Bay Lighting | New | building | 463 | 4.1% | 0.04 | 8 | \$4,117 | 0% | 0.0 |
| DLC | Time Clock Control | Lighting w/ No Controls | Lodging | High Bay Lighting | Existing | building | 463 | 28% | 0.3 | 8 | \$837 | 13% | 0.2 |
| DLC | Time Clock Control | Lighting w/ No Controls | Lodging | High Bay Lighting | New | building | 463 | 4.0% | 0.04 | 8 | \$837 | 0% | 0.0 |
| DLC | Auto Off Time Switch | Lighting w/ No Controls | Lodging | Lin. Fluor. Lighting | Existing | building | 20,229 | 24% | 0.2 | 8 | \$837 | 13% | 1.9 |
| DLC | Auto Off Time Switch | Lighting w/ No Controls | Lodging | Lin. Fluor. Lighting | New | building | 20,229 | 7.0% | 0.07 | 8 | \$837 | 0% | 0.5 |
| DLC | Central Lighting Control System | Lighting w/ No Controls | Lodging | Lin. Fluor. Lighting | Existing | building | 20,229 | 38% | 0.4 | 8 | \$837 | 12% | 3.0 |
| DLC | Central Lighting Control System | Lighting w/ No Controls | Lodging | Lin. Fluor. Lighting | New | building | 20,229 | 14% | 0.1 | 8 | \$837 | 12% | 1.1 |
| DLC | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Lodging | Lin. Fluor. Lighting | New | building | 20,229 | 10% | 0.1 | 15 | \$45,527 | 32% | 0.0 |
| DLC | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Lodging | Lin. Fluor. Lighting | New | building | 20,229 | 15% | 0.2 | 15 | \$113,817 | 32% | 0.0 |
| DLC | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Lodging | Lin. Fluor. Lighting | New | building | 20,229 | 30% | 0.3 | 15 | \$163,138 | 32% | 0.0 |
| DLC | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Lodging | Lin. Fluor. Lighting | Early | Lamp | 295 | 38% | 0.02 | 7 | \$7.3 | 94% | 5.1 |
| DLC | Indoor Daylight Sensors | Lighting w/ No Controls | Lodging | Lin. Fluor. Lighting | Existing | building | 20,229 | 28% | 0.3 | 8 | \$4,117 | 13% | 0.4 |
| DLC | Indoor Daylight Sensors | Lighting w/ No Controls | Lodging | Lin. Fluor. Lighting | New | building | 20,229 | 4.1% | 0.04 | 8 | \$4,117 | 0% | 0.1 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 28W T8 Lamp, Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | Early | Lamp | 88 | 19% | 0.00 | 14 | \$35 | 94% | 0.3 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 40W T12 Lamp, Magnetic Ballast | Lodging | Lin. Fluor. Lighting | Early | Lamp | 194 | 63% | 0.02 | 14 | \$35 | 94% | 2.5 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 28W T5 Lamp, Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | Early | Lamp | 109 | 34% | 0.01 | 14 | \$35 | 94% | 0.8 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 32W T8 Lamp, Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | Early | Lamp | 106 | 32% | 0.01 | 14 | \$35 | 94% | 0.7 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 28W T8 Lamp, Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | New | Lamp | 67 | 19% | 0.00 | 14 | \$28 | 94% | 0.3 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 32W T8 Lamp, Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | New | Lamp | 80 | 32% | 0.00 | 14 | \$29 | 94% | 0.6 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 28W T5 Lamp, Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | New | Lamp | 83 | 34% | 0.00 | 14 | \$22 | 94% | 0.9 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 32W T8 Lamp, Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | New | Lamp | 80 | 32% | 0.00 | 14 | \$29 | 94% | 0.6 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 28W T8 Lamp, Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | ROB | Lamp | 88 | 19% | 0.00 | 14 | \$28 | 94% | 0.4 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 32W T8 Lamp, Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | ROB | Lamp | 106 | 32% | 0.01 | 14 | \$29 | 94% | 0.8 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 28W T5 Lamp, Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | ROB | Lamp | 109 | 34% | 0.01 | 14 | \$22 | 94% | 1.2 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 32W T8 Lamp, Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | ROB | Lamp | 106 | 32% | 0.01 | 14 | \$29 | 94% | 0.8 |
| DLC | Occupancy Sensor | Lighting w/ No Controls | Lodging | Lin. Fluor. Lighting | Existing | building | 20,229 | 24% | 0.2 | 8 | \$1,260 | 13% | 1.3 |
| DLC | Occupancy Sensor | Lighting w/ No Controls | Lodging | Lin. Fluor. Lighting | New | building | 20,229 | 7.0% | 0.07 | 8 | \$1,260 | 0% | 0.4 |
| DLC | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Lodging | Lin. Fluor. Lighting | Existing | building | 20,229 | 28% | 0.3 | 8 | \$4,117 | 12% | 0.4 |
| DLC | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Lodging | Lin. Fluor. Lighting | New | building | 20,229 | 4.1% | 0.04 | 8 | \$4,117 | 0% | 0.1 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 40W T12 w/ Magnetic Ballast | Lodging | Lin. Fluor. Lighting | Early | Lamp | 295 | 54% | 0.03 | 7 | \$9.1 | 94% | 5.8 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | Early | Lamp | 189 | 28% | 0.01 | 7 | \$9.1 | 24% | 1.9 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | Early | Lamp | 183 | 26% | 0.01 | 7 | \$9.1 | 94% | 1.7 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | New | Lamp | 139 | 26% | 0.01 | 7 | \$2.5 | 94% | 4.7 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | New | Lamp | 139 | 26% | 0.01 | 7 | \$2.5 | 94% | 4.7 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | New | Lamp | 143 | 28% | 0.01 | 7 | \$2.5 | 24% | 5.3 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | New | Lamp | 139 | 26% | 0.01 | 7 | \$2.5 | 94% | 4.7 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | ROB | Lamp | 183 | 26% | 0.01 | 7 | \$2.5 | 94% | 6.2 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | ROB | Lamp | 183 | 26% | 0.01 | 7 | \$2.5 | 94% | 6.2 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | ROB | Lamp | 189 | 28% | 0.01 | 7 | \$2.5 | 24% | 7.0 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | ROB | Lamp | 183 | 26% | 0.01 | 7 | \$2.5 | 94% | 6.2 |
| DLC | T8 Lamp (any length) Electronic Ballast | Standard T12 lamp (any length) | Lodging | Lin. Fluor. Lighting | Early | Lamp | 347 | 42% | 0.02 | 7 | \$14 | 94% | 3.5 |
| DLC | Time Clock Control | Lighting w/ No Controls | Lodging | Lin. Fluor. Lighting | Existing | building | 20,229 | 28% | 0.3 | 8 | \$837 | 14% | 2.2 |
| DLC | Time Clock Control | Lighting w/ No Controls | Lodging | Lin. Fluor. Lighting | New | building | 20,229 | 4.1% | 0.04 | 8 | \$837 | 0% | 0.3 |
| DLC | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | Early | motor | 4,397 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.3 |
| DLC | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | Early | motor | 4,397 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|--|---------|---------|---------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | New | motor | 230,198 | 0.5% | 0.2 | 15 | \$431 | 70% | 2.0 |
| DLC | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | New | motor | 230,198 | 0.5% | 0.1 | 15 | \$431 | 70% | 2.0 |
| DLC | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | ROB | motor | 230,198 | 0.5% | 0.1 | 15 | \$431 | 70% | 2.0 |
| DLC | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | ROB | motor | 230,198 | 0.5% | 0.1 | 15 | \$431 | 70% | 2.0 |
| DLC | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | ROB | motor | 230,198 | 0.5% | 0.2 | 15 | \$431 | 70% | 2.0 |
| DLC | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | ROB | motor | 230,198 | 0.5% | 0.1 | 15 | \$431 | 70% | 2.0 |
| DLC | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | Early | motor | 30,775 | 2.9% | 0.1 | 15 | \$802 | 83% | 0.8 |
| DLC | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | Early | motor | 30,775 | 2.9% | 0.1 | 15 | \$802 | 83% | 0.8 |
| DLC | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | Early | motor | 30,775 | 2.9% | 0.1 | 15 | \$802 | 83% | 0.8 |
| DLC | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | Early | motor | 30,775 | 2.9% | 0.1 | 15 | \$802 | 83% | 0.8 |
| DLC | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | Early | motor | 30,775 | 2.9% | 0.1 | 15 | \$802 | 83% | 0.8 |
| DLC | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | New | motor | 30,040 | 0.5% | 0.02 | 15 | \$123 | 83% | 1.0 |
| DLC | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | New | motor | 30,040 | 0.5% | 0.02 | 15 | \$123 | 83% | 1.0 |
| DLC | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | New | motor | 30,040 | 0.5% | 0.02 | 15 | \$123 | 83% | 1.0 |
| DLC | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | New | motor | 30,040 | 0.5% | 0.02 | 15 | \$123 | 83% | 1.0 |
| DLC | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | ROB | motor | 30,040 | 0.5% | 0.02 | 15 | \$123 | 83% | 1.0 |
| DLC | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | ROB | motor | 30,040 | 0.5% | 0.02 | 15 | \$123 | 83% | 1.0 |
| DLC | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | ROB | motor | 30,040 | 0.5% | 0.02 | 15 | \$123 | 83% | 1.0 |
| DLC | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | ROB | motor | 30,040 | 0.5% | 0.02 | 15 | \$123 | 83% | 1.0 |
| DLC | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | ROB | motor | 30,040 | 0.5% | 0.02 | 15 | \$123 | 83% | 1.0 |
| DLC | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | ROB | motor | 30,040 | 0.5% | 0.02 | 15 | \$123 | 83% | 1.0 |
| DLC | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | ROB | motor | 30,040 | 0.5% | 0.02 | 15 | \$123 | 83% | 1.0 |
| DLC | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | ROB | motor | 30,040 | 0.5% | 0.02 | 15 | \$123 | 83% | 1.0 |
| DLC | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | Early | motor | 290,139 | 1.3% | 0.5 | 15 | \$3,955 | 61% | 0.7 |
| DLC | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | Early | motor | 290,139 | 1.3% | 0.5 | 15 | \$3,955 | 61% | 0.7 |
| DLC | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | Early | motor | 290,139 | 1.3% | 0.5 | 15 | \$3,955 | 61% | 0.7 |
| DLC | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | Early | motor | 290,139 | 1.3% | 0.6 | 15 | \$3,955 | 61% | 0.7 |
| DLC | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | Early | motor | 290,139 | 1.3% | 0.5 | 15 | \$3,955 | 61% | 0.7 |
| DLC | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | New | motor | 287,748 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.9 |
| DLC | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | New | motor | 287,748 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.9 |
| DLC | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | New | motor | 287,748 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.9 |
| DLC | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | New | motor | 287,748 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.9 |
| DLC | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | New | motor | 287,748 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.9 |
| DLC | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | ROB | motor | 287,748 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.9 |
| DLC | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | ROB | motor | 287,748 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.9 |
| DLC | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | ROB | motor | 287,748 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.9 |
| DLC | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | ROB | motor | 287,748 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.9 |
| DLC | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | ROB | motor | 287,748 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.9 |
| DLC | ASD HVAC Fan | Std. HVAC Fan | Lodging | Motors | New | measure | 10,530 | 6.0% | 0.07 | 15 | \$2,225 | 85% | 0.2 |
| DLC | ASD HVAC Fan | Std. HVAC Fan | Lodging | Motors | ROB | measure | 10,530 | 6.0% | 0.07 | 15 | \$2,225 | 85% | 0.2 |
| DLC | demand controlled ventilation | Absence of Demand Controlled Ventilation | Lodging | Motors | Early | measure | 10,530 | 14% | 0.2 | 10 | \$5,189 | 92% | 0.1 |
| DLC | demand controlled ventilation | Office building thermostat | Lodging | Motors | New | measure | 10,530 | 14% | 0.2 | 10 | \$4,048 | 92% | 0.2 |
| DLC | demand controlled ventilation | Office building thermostat | Lodging | Motors | ROB | measure | 10,530 | 14% | 0.2 | 10 | \$4,048 | 92% | 0.2 |
| DLC | Downsizing motor during retrofit | Larger hp standard motor | Lodging | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 24.7 |
| DLC | Downsizing motor during retrofit | Larger hp standard motor | Lodging | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 25.2 |
| DLC | Downsizing motor during retrofit | Larger hp standard motor | Lodging | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 25.9 |
| DLC | Downsizing motor during retrofit | Larger hp standard motor | Lodging | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 26.3 |
| DLC | Downsizing motor during retrofit | Larger hp standard motor | Lodging | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 26.9 |
| DLC | Downsizing motor during retrofit | Larger hp standard motor | Lodging | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 24.8 |
| DLC | Downsizing motor during retrofit | Larger hp standard motor | Lodging | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 25.3 |
| DLC | Downsizing motor during retrofit | Larger hp standard motor | Lodging | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 26.0 |
| DLC | Downsizing motor during retrofit | Larger hp standard motor | Lodging | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 26.4 |
| DLC | Downsizing motor during retrofit | Larger hp standard motor | Lodging | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 26.9 |
| DLC | Escalator Motor Controller | Constant power control | Lodging | Motors | New | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 36% | 6.9 |
| DLC | Escalator Motor Controller | Constant power control | Lodging | Motors | ROB | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 36% | 6.9 |
| DLC | Fan Motor - correct sizing | Incorrect Fan Motor Sizing | Lodging | Motors | ROB | measure | 10,530 | 1.6% | 0.02 | 15 | \$50 | 92% | 2.5 |
| DLC | Variable Speed Drive Control, 15HP | Existing Motors w/out VSD Drive | Lodging | Motors | Early | motor | 60,079 | 70% | 6.2 | 15 | \$731 | 86% | 43.0 |
| DLC | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Lodging | Motors | New | motor | 58,787 | 72% | 6.2 | 15 | \$731 | 86% | 42.9 |
| DLC | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Lodging | Motors | ROB | motor | 58,787 | 72% | 6.2 | 15 | \$731 | 86% | 42.9 |
| DLC | Variable Speed Drive Control, 40HP | Existing Motors w/out VSD Drive | Lodging | Motors | Early | motor | 156,766 | 71% | 16.3 | 15 | \$4,666 | 86% | 17.7 |
| DLC | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Lodging | Motors | New | motor | 154,933 | 72% | 16.3 | 15 | \$4,666 | 86% | 17.7 |
| DLC | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Lodging | Motors | ROB | motor | 154,933 | 71% | 16.3 | 15 | \$4,666 | 86% | 17.7 |
| DLC | Variable Speed Drive Control, 5HP | Existing Motors w/out VFD Drive | Lodging | Motors | Early | motor | 20,827 | 72% | 2.2 | 15 | \$2,243 | 86% | 5.0 |
| DLC | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Lodging | Motors | New | motor | 20,362 | 72% | 2.1 | 15 | \$2,243 | 86% | 4.8 |
| DLC | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Lodging | Motors | ROB | motor | 20,362 | 72% | 2.1 | 15 | \$2,243 | 86% | 4.8 |
| DLC | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Lodging | Motors | Early | motor | 24,832 | 4.5% | 0.1 | 15 | \$268 | 40% | 3.1 |
| DLC | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Lodging | Motors | New | motor | 24,832 | 4.5% | 0.1 | 15 | \$268 | 40% | 3.1 |
| DLC | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Lodging | Motors | ROB | motor | 24,832 | 4.5% | 0.1 | 15 | \$268 | 40% | 3.1 |
| DLC | VFD on Chilled Water Pump | Motor w/out VFD Drive | Lodging | Motors | Early | motor | 55,591 | 55% | 2.7 | 15 | \$2,903 | 86% | 7.3 |
| DLC | VFD on Chilled Water Pump | Motor w/out VFD Drive | Lodging | Motors | New | motor | 54,551 | 55% | 2.7 | 15 | \$2,843 | 86% | 7.3 |
| DLC | VFD on Chilled Water Pump | Motor w/out VFD Drive | Lodging | Motors | ROB | motor | 54,551 | 55% | 2.7 | 15 | \$2,843 | 86% | 7.3 |
| DLC | VFD on Condenser Water Pump | Motor w/out VFD Drive | Lodging | Motors | Early | motor | 54,129 | 32% | 3.2 | 15 | \$2,903 | 86% | 4.7 |
| DLC | VFD on Condenser Water Pump | Motor w/out VFD Drive | Lodging | Motors | New | motor | 53,116 | 33% | 3.1 | 15 | \$2,843 | 86% | 4.8 |
| DLC | VFD on Condenser Water Pump | Motor w/out VFD Drive | Lodging | Motors | ROB | motor | 53,116 | 33% | 3.1 | 15 | \$2,843 | 86% | 4.8 |
| DLC | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Lodging | Motors | Early | motor | 56,603 | 56% | 0.00 | 15 | \$2,903 | 86% | 6.6 |
| DLC | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Lodging | Motors | New | motor | 55,544 | 57% | 0.00 | 15 | \$2,843 | 86% | 6.7 |
| DLC | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Lodging | Motors | ROB | motor | 55,544 | 57% | 0.00 | 15 | \$2,843 | 86% | 6.7 |
| DLC | VFD on HVAC Fan | Motor w/out VFD | Lodging | Motors | Early | motor | 56,640 | 70% | 3.4 | 15 | \$2,903 | 86% | 9.4 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|--|---------|---------------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | VFD on HVAC Fan | Motor w/out VFD | Lodging | Motors | New | motor | 55,580 | 72% | 3.3 | 15 | \$2,843 | 86% | 9.6 |
| DLC | VFD on HVAC Fan | Motor w/out VFD | Lodging | Motors | ROB | motor | 55,580 | 72% | 3.3 | 15 | \$2,843 | 86% | 9.6 |
| DLC | Elevators | Std. Eff Elevator | Lodging | Other | ROB | measure | 89,016 | 18% | 1.1 | 15 | \$3,382 | 81% | 3.2 |
| DLC | Variable Speed Drives on Process Equipment | Constant speed control | Lodging | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 11.5 |
| DLC | Variable Speed Drives on Process Equipment | Constant speed control | Lodging | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 11.5 |
| DLC | 9W Exit Sign Retrofit: CFL replacing Incandescent | One 23W Single Sided Incandescent Exit Sign | Lodging | Other Int. Lighting | Early | exit sign | 130 | 42% | 0.01 | 15 | \$48 | 22% | 0.8 |
| DLC | Auto Off Time Switch | Lighting w/ No Controls | Lodging | Other Int. Lighting | Existing | building | 16,368 | 24% | 0.2 | 8 | \$837 | 13% | 1.6 |
| DLC | Auto Off Time Switch | Lighting w/ No Controls | Lodging | Other Int. Lighting | New | building | 16,368 | 7.0% | 0.07 | 8 | \$837 | 0% | 0.5 |
| DLC | Central Lighting Control System | Lighting w/ No Controls | Lodging | Other Int. Lighting | Existing | building | 16,368 | 38% | 0.4 | 8 | \$837 | 13% | 2.5 |
| DLC | Central Lighting Control System | Lighting w/ No Controls | Lodging | Other Int. Lighting | New | building | 16,368 | 14% | 0.1 | 8 | \$837 | 13% | 0.9 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 40W Incandescent Bulb | Lodging | Other Int. Lighting | Early | lamp | 204 | 87% | 0.03 | 7 | \$30 | 14% | 1.9 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Lodging | Other Int. Lighting | Early | lamp | 146 | 81% | 0.02 | 7 | \$30 | 11% | 1.3 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Lodging | Other Int. Lighting | New | lamp | 111 | 81% | 0.01 | 7 | \$21 | 14% | 1.4 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Lodging | Other Int. Lighting | New | lamp | 111 | 81% | 0.01 | 7 | \$23 | 14% | 1.3 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Lodging | Other Int. Lighting | New | lamp | 111 | 81% | 0.01 | 7 | \$22 | 11% | 1.3 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Lodging | Other Int. Lighting | ROB | lamp | 146 | 81% | 0.02 | 7 | \$21 | 14% | 1.8 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Lodging | Other Int. Lighting | ROB | lamp | 146 | 81% | 0.02 | 7 | \$23 | 14% | 1.7 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Lodging | Other Int. Lighting | ROB | lamp | 146 | 81% | 0.02 | 7 | \$22 | 11% | 1.7 |
| DLC | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Lodging | Other Int. Lighting | Early | lamp | 204 | 75% | 0.02 | 3 | \$73 | 24% | 0.3 |
| DLC | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Lodging | Other Int. Lighting | New | fixture | 222 | 65% | 0.02 | 13 | \$29 | 28% | 3.3 |
| DLC | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Lodging | Other Int. Lighting | New | lamp | 111 | 65% | 0.01 | 3 | \$29 | 28% | 0.4 |
| DLC | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Lodging | Other Int. Lighting | ROB | fixture | 293 | 65% | 0.03 | 13 | \$29 | 24% | 4.4 |
| DLC | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Lodging | Other Int. Lighting | ROB | lamp | 146 | 65% | 0.01 | 3 | \$29 | 24% | 0.5 |
| DLC | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Lodging | Other Int. Lighting | Early | lamp | 204 | 75% | 0.02 | 3 | \$3.2 | 24% | 7.2 |
| DLC | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Lodging | Other Int. Lighting | New | lamp | 111 | 65% | 0.01 | 3 | \$1.8 | 24% | 6.1 |
| DLC | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Lodging | Other Int. Lighting | ROB | lamp | 146 | 65% | 0.01 | 3 | \$1.8 | 24% | 8.1 |
| DLC | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Lodging | Other Int. Lighting | ROB | lamp | 146 | 65% | 0.01 | 3 | \$1.8 | 24% | 8.1 |
| DLC | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Lodging | Other Int. Lighting | New | building | 16,368 | 10% | 0.1 | 15 | \$45,527 | 32% | 0.0 |
| DLC | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Lodging | Other Int. Lighting | New | building | 16,368 | 15% | 0.2 | 15 | \$113,817 | 32% | 0.0 |
| DLC | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Lodging | Other Int. Lighting | New | building | 16,368 | 30% | 0.3 | 15 | \$163,138 | 32% | 0.0 |
| DLC | Indoor Daylight Sensors | Lighting w/ No Controls | Lodging | Other Int. Lighting | Existing | building | 16,368 | 28% | 0.3 | 8 | \$4,117 | 13% | 0.4 |
| DLC | Indoor Daylight Sensors | Lighting w/ No Controls | Lodging | Other Int. Lighting | New | building | 16,368 | 4.1% | 0.04 | 8 | \$4,117 | 0% | 0.1 |
| DLC | LED Exit Signs Single-sided (5W) | Existing Single-Sided Exit Signs (Average: 16 W) | Lodging | Other Int. Lighting | Early | sign | 153 | 87% | 0.02 | 15 | \$48 | 16% | 2.0 |
| DLC | LED Exit Signs Single-sided (5W) | One 9W Single-Sided CFL Exit Sign | Lodging | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 2.2 |
| DLC | LED Exit Signs Single-sided (5W) | One 9W Single-Sided CFL Exit Sign | Lodging | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 2.2 |
| DLC | LED Task Lighting/Screw-In (10W) | 1 15W CFL bulb | Lodging | Other Int. Lighting | Early | lamp | 42 | 33% | 0.00 | 9 | \$9.6 | 24% | 0.7 |
| DLC | LED Task Lighting/Screw-In (10W) | 1 60W Incandescent Bulb | Lodging | Other Int. Lighting | Early | lamp | 167 | 83% | 0.02 | 9 | \$9.6 | 24% | 6.5 |
| DLC | LED Task Lighting/Screw-In (10W) | 1 43W EISA Compliant bulb | Lodging | Other Int. Lighting | New | lamp | 91 | 77% | 0.01 | 9 | \$7.9 | 24% | 4.0 |
| DLC | LED Task Lighting/Screw-In (10W) | 1 43W EISA Compliant bulb | Lodging | Other Int. Lighting | New | lamp | 91 | 77% | 0.01 | 9 | \$7.9 | 24% | 4.0 |
| DLC | LED Task Lighting/Screw-In (10W) | 1 43W EISA Compliant bulb | Lodging | Other Int. Lighting | ROB | lamp | 120 | 77% | 0.01 | 9 | \$7.9 | 24% | 5.2 |
| DLC | LED Task Lighting/Screw-In (10W) | 1 43W EISA Compliant bulb | Lodging | Other Int. Lighting | ROB | lamp | 120 | 77% | 0.01 | 9 | \$7.9 | 24% | 5.2 |
| DLC | Occupancy Sensor | Lighting w/ No Controls | Lodging | Other Int. Lighting | Existing | building | 16,368 | 24% | 0.2 | 8 | \$1,260 | 12% | 1.0 |
| DLC | Occupancy Sensor | Lighting w/ No Controls | Lodging | Other Int. Lighting | New | building | 16,368 | 7.0% | 0.07 | 8 | \$1,260 | 0% | 0.3 |
| DLC | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Lodging | Other Int. Lighting | Existing | building | 16,368 | 28% | 0.3 | 8 | \$4,117 | 12% | 0.4 |
| DLC | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Lodging | Other Int. Lighting | New | building | 16,368 | 4.1% | 0.04 | 8 | \$4,117 | 0% | 0.1 |
| DLC | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Lodging | Other Int. Lighting | Early | exit sign | 130 | 100% | 0.02 | 15 | \$173 | 26% | 0.6 |
| DLC | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Lodging | Other Int. Lighting | New | exit sign | 75 | 100% | 0.01 | 15 | \$148 | 31% | 0.4 |
| DLC | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Lodging | Other Int. Lighting | ROB | exit sign | 75 | 100% | 0.01 | 15 | \$148 | 26% | 0.4 |
| DLC | Time Clock Control | Lighting w/ No Controls | Lodging | Other Int. Lighting | Existing | building | 16,368 | 28% | 0.3 | 8 | \$837 | 13% | 1.8 |
| DLC | Time Clock Control | Lighting w/ No Controls | Lodging | Other Int. Lighting | New | building | 16,368 | 4.1% | 0.04 | 8 | \$837 | 0% | 0.3 |
| DLC | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Lodging | Plug Load | Existing | building | 2,045 | 46% | 0.5 | 5 | \$189 | 4% | 1.8 |
| DLC | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Lodging | Plug Load | New | building | 2,045 | 46% | 0.5 | 5 | \$189 | 4% | 1.8 |
| DLC | Data Center - Server/Storage Consolidation | No Consolidation | Lodging | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| DLC | Data Center - Server/Storage Consolidation | No Consolidation | Lodging | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| DLC | Data Center - Server/Storage Virtualization | No Virtualization | Lodging | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| DLC | Data Center - Server/Storage Virtualization | No Virtualization | Lodging | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| DLC | Energy Star - Scanners | Std Scanner | Lodging | Plug Load | New | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| DLC | Energy Star - Scanners | Std Scanner | Lodging | Plug Load | ROB | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| DLC | Energy Star Battery Charging System (for small cordless products) | Std. Battery Charging System | Lodging | Plug Load | ROB | measure | 593 | 2.3% | 0.2 | 5 | \$65 | 4% | 1.2 |
| DLC | Energy Star Dishwasher | Existing Dishwasher units | Lodging | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,580 | 23% | 1.1 |
| DLC | Energy Star Dishwasher | Standard Dishwasher unit | Lodging | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 23% | 3.5 |
| DLC | Energy Star Dishwasher | Standard Dishwasher unit | Lodging | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 23% | 3.5 |
| DLC | Energy Star External Power Adapter | Std. Power Adapter | Lodging | Plug Load | New | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| DLC | Energy Star External Power Adapter | Std. Power Adapter | Lodging | Plug Load | ROB | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| DLC | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Lodging | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 17% | 0.2 |
| DLC | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Lodging | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.1 |
| DLC | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Lodging | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.1 |
| DLC | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Lodging | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 64% | 0.7 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|---|---------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Lodging | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 64% | 1.5 |
| DLC | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Lodging | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 64% | 1.5 |
| DLC | ENERGY STAR® Copiers | 10% Less Efficient Copier | Lodging | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 18% | 0.0 |
| DLC | ENERGY STAR® Copiers | One Conventional Copier | Lodging | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| DLC | ENERGY STAR® Copiers | One Conventional Copier | Lodging | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| DLC | ENERGY STAR® desktop | Standard computer | Lodging | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 69% | 0.1 |
| DLC | ENERGY STAR® desktop | Standard computer | Lodging | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.1 |
| DLC | ENERGY STAR® desktop | Standard computer | Lodging | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.1 |
| DLC | ENERGY STAR® Fax | 10% Less Efficient Fax | Lodging | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 15% | 0.0 |
| DLC | ENERGY STAR® Fax | One Conventional Fax | Lodging | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.1 |
| DLC | ENERGY STAR® Fax | One Conventional Fax | Lodging | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.1 |
| DLC | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Lodging | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 70% | 0.0 |
| DLC | ENERGY STAR® Monitors | One Conventional Monitor | Lodging | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| DLC | ENERGY STAR® Monitors | One Conventional Monitor | Lodging | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| DLC | ENERGY STAR® Printers | 10% Less Efficient Printer | Lodging | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 44% | 0.0 |
| DLC | ENERGY STAR® Printers | One Conventional Printer | Lodging | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| DLC | ENERGY STAR® Printers | One Conventional Printer | Lodging | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| DLC | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Lodging | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 43% | 0.1 |
| DLC | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Lodging | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.8 |
| DLC | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Lodging | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.8 |
| DLC | ENERGY STAR® Televisions | 10% Less Efficient Television | Lodging | Plug Load | Early | Unit | 280 | 38% | 0.01 | 6 | \$672 | 40% | 0.0 |
| DLC | ENERGY STAR® Televisions | One Conventional Television | Lodging | Plug Load | New | Unit | 254 | 32% | 0.01 | 6 | \$206 | 40% | 0.1 |
| DLC | ENERGY STAR® Televisions | One Conventional Television | Lodging | Plug Load | ROB | Unit | 254 | 32% | 0.01 | 6 | \$206 | 40% | 0.1 |
| DLC | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Lodging | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 24% | 0.3 |
| DLC | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Lodging | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.7 |
| DLC | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Lodging | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.7 |
| DLC | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Lodging | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 73% | 0.3 |
| DLC | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Lodging | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 73% | 0.3 |
| DLC | Network PC Power Management | No PC Power Management | Lodging | Plug Load | Existing | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 9.1 |
| DLC | Network PC Power Management | No PC Power Management | Lodging | Plug Load | New | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 9.1 |
| DLC | Smart Strip Plug Outlets | Standard plug strip/outlet | Lodging | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.2 |
| DLC | Smart Strip Plug Outlets | Standard plug strip/outlet | Lodging | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.2 |
| DLC | Smart Strip Plug Outlets | Standard plug strip/outlet | Lodging | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| DLC | Smart Strip Plug Outlets | Standard plug strip/outlet | Lodging | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| DLC | Smart Strip Plug Outlets | Standard plug strip/outlet | Lodging | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| DLC | Smart Strip Plug Outlets | Standard plug strip/outlet | Lodging | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| DLC | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Lodging | Plug Load | Existing | building | 2,045 | 46% | 0.5 | 5 | \$180 | 3% | 1.9 |
| DLC | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Lodging | Plug Load | New | building | 2,045 | 46% | 0.5 | 5 | \$180 | 3% | 1.9 |
| DLC | Air curtain technology | Strip plastic curtain | Lodging | Refrigeration | New | building | 7,663 | 6.8% | 0.07 | 8 | \$1,119 | 35% | 0.2 |
| DLC | Air curtain technology | Strip plastic curtain | Lodging | Refrigeration | New | building | 7,830 | 6.8% | 0.07 | 8 | \$1,135 | 35% | 0.2 |
| DLC | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Lodging | Refrigeration | Existing | building | 666 | 2.3% | 0.02 | 12 | \$70 | 11% | 0.4 |
| DLC | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Lodging | Refrigeration | New | building | 666 | 2.3% | 0.02 | 12 | \$70 | 11% | 0.4 |
| DLC | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Lodging | Refrigeration | Existing | building | 666 | 0.9% | 0.01 | 12 | \$70 | 11% | 0.1 |
| DLC | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Lodging | Refrigeration | New | building | 666 | 0.9% | 0.01 | 12 | \$70 | 11% | 0.1 |
| DLC | Auto Closer on Refrigerator Door | Door w/out Autocloser | Lodging | Refrigeration | Existing | building | 7,663 | 18% | 0.2 | 8 | \$803 | 40% | 0.6 |
| DLC | Auto Closer on Refrigerator Door | Door w/out Autocloser | Lodging | Refrigeration | Existing | building | 7,830 | 9.1% | 0.09 | 8 | \$714 | 40% | 0.4 |
| DLC | Auto Closer on Refrigerator Door | Door w/out Autocloser | Lodging | Refrigeration | New | building | 7,663 | 18% | 0.2 | 8 | \$803 | 40% | 0.6 |
| DLC | Auto Closer on Refrigerator Door | Door w/out Autocloser | Lodging | Refrigeration | New | building | 7,830 | 9.1% | 0.09 | 8 | \$714 | 40% | 0.4 |
| DLC | Demand Hot Gas Defrost | Base Refrigeration System | Lodging | Refrigeration | Existing | measure | 666 | 3.0% | 0.03 | 10 | \$1,445 | 0% | 0.0 |
| DLC | Demand Hot Gas Defrost | Base Refrigeration System | Lodging | Refrigeration | New | measure | 666 | 3.0% | 0.03 | 10 | \$1,445 | 0% | 0.0 |
| DLC | Door Gasket- Freezer | Door w/out Gasket | Lodging | Refrigeration | Existing | building | 7,663 | 10% | 0.1 | 4 | \$82 | 29% | 1.7 |
| DLC | Door Gasket- Freezer | Door w/out Gasket | Lodging | Refrigeration | New | building | 7,663 | 9.3% | 0.09 | 4 | \$82 | 29% | 1.6 |
| DLC | Door Gasket- Refrigerator | Door w/out Gasket | Lodging | Refrigeration | Existing | building | 7,830 | 2.9% | 0.03 | 4 | \$99 | 45% | 0.4 |
| DLC | Door Gasket- Refrigerator | Door w/out Gasket | Lodging | Refrigeration | New | building | 7,830 | 2.9% | 0.03 | 4 | \$99 | 45% | 0.4 |
| DLC | Economizer for Walk-in Coolers | No Economizer | Lodging | Refrigeration | Early | measure | 16,150 | 6.6% | 0.1 | 10 | \$188 | 72% | 2.8 |
| DLC | Economizer for Walk-in Coolers | No Economizer | Lodging | Refrigeration | Early | measure | 16,150 | 6.6% | 0.1 | 10 | \$188 | 72% | 2.8 |
| DLC | Economizer for Walk-in Coolers | No Economizer | Lodging | Refrigeration | Early | measure | 16,150 | 6.6% | 0.1 | 10 | \$188 | 72% | 2.8 |
| DLC | Economizer for Walk-in Coolers | No Economizer | Lodging | Refrigeration | New | measure | 16,150 | 6.6% | 0.1 | 10 | \$22 | 72% | 23.6 |
| DLC | Economizer for Walk-in Coolers | No Economizer | Lodging | Refrigeration | New | measure | 16,150 | 6.6% | 0.1 | 10 | \$22 | 72% | 23.7 |
| DLC | Economizer for Walk-in Coolers | No Economizer | Lodging | Refrigeration | New | measure | 16,150 | 6.6% | 0.1 | 10 | \$22 | 72% | 23.7 |
| DLC | Economizer for Walk-in Coolers | No Economizer | Lodging | Refrigeration | ROB | measure | 16,150 | 6.6% | 0.1 | 10 | \$22 | 72% | 23.7 |
| DLC | Economizer for Walk-in Coolers | No Economizer | Lodging | Refrigeration | ROB | measure | 16,150 | 6.6% | 0.1 | 10 | \$22 | 72% | 23.7 |
| DLC | eCube | Refrigeration unit w/out eCube | Lodging | Refrigeration | Existing | building | 7,830 | 15% | 0.2 | 15 | \$601 | 57% | 1.4 |
| DLC | eCube | Refrigeration unit w/out eCube | Lodging | Refrigeration | New | building | 7,830 | 15% | 0.2 | 15 | \$601 | 57% | 1.4 |
| DLC | Efficient compressor motor | Base Refrigeration System - Grocery | Lodging | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.3 |
| DLC | Efficient compressor motor | Base Refrigeration System - Grocery | Lodging | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.3 |
| DLC | Efficient compressor motor | Base Refrigeration System - Grocery | Lodging | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.3 |
| DLC | Efficient compressor motor | Base Refrigeration System - Grocery | Lodging | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|--|---------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Lodging | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.6 |
| DLC | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Lodging | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| DLC | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Lodging | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| DLC | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Lodging | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.3 |
| DLC | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Lodging | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.8 |
| DLC | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Lodging | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.8 |
| DLC | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Lodging | Refrigeration | Existing | building | 7,830 | 1.1% | 0.01 | 10 | \$369 | 77% | 0.1 |
| DLC | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Lodging | Refrigeration | New | building | 7,830 | 1.1% | 0.01 | 10 | \$369 | 77% | 0.1 |
| DLC | Floating head pressure controller | System w/out FHPC | Lodging | Refrigeration | Existing | building | 7,663 | 3.0% | 0.02 | 15 | \$8,682 | 41% | 0.0 |
| DLC | Floating head pressure controller | System w/out FHPC | Lodging | Refrigeration | Existing | building | 666 | 15% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| DLC | Floating head pressure controller | System w/out FHPC | Lodging | Refrigeration | Existing | building | 7,830 | 1.0% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| DLC | Floating head pressure controller | System w/out FHPC | Lodging | Refrigeration | New | building | 7,663 | 3.0% | 0.02 | 15 | \$8,682 | 41% | 0.0 |
| DLC | Floating head pressure controller | System w/out FHPC | Lodging | Refrigeration | New | building | 666 | 15% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| DLC | Floating head pressure controller | System w/out FHPC | Lodging | Refrigeration | New | building | 7,830 | 1.0% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| DLC | High Efficiency Commercial Freezer | Std. Commercial Freezer | Lodging | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 84% | 0.4 |
| DLC | High Efficiency Commercial Freezer | Std. Commercial Freezer | Lodging | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 84% | 4.4 |
| DLC | High Efficiency Commercial Freezer | Std. Commercial Freezer | Lodging | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 84% | 4.4 |
| DLC | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Lodging | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 21% | 0.1 |
| DLC | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Lodging | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$406 | 21% | 1.0 |
| DLC | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Lodging | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$406 | 21% | 1.0 |
| DLC | High Efficiency Ice Maker | Existing Standard Efficiency Ice Maker in Pennsylvania | Lodging | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 69% | 0.2 |
| DLC | High Efficiency Ice Maker | Standard code minimum Ice Maker | Lodging | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| DLC | High Efficiency Ice Maker | Standard code minimum Ice Maker | Lodging | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 69% | 0.2 |
| DLC | High Efficiency Ice Making Head | Standard Ice Making Head | Lodging | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 4.1 |
| DLC | High Efficiency Ice Making Head | Standard Ice Making Head | Lodging | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 4.1 |
| DLC | High R-Value Glass Doors | Base Refrigeration System - Grocery | Lodging | Refrigeration | Existing | building | 666 | 0.7% | 0.01 | 10 | \$26 | 0% | 0.3 |
| DLC | High R-Value Glass Doors | Base Refrigeration System - Grocery | Lodging | Refrigeration | New | building | 666 | 0.7% | 0.01 | 10 | \$26 | 0% | 0.3 |
| DLC | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Lodging | Refrigeration | Early | Fixture | 373 | 56% | 0.02 | 8 | \$448 | 86% | 0.2 |
| DLC | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Lodging | Refrigeration | New | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 86% | 0.3 |
| DLC | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Lodging | Refrigeration | ROB | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 86% | 0.3 |
| DLC | No-heat glass doors | Standard low-temp reach-in | Lodging | Refrigeration | Existing | building | 666 | 20% | 0.2 | 10 | \$2,336 | 8% | 0.1 |
| DLC | No-heat glass doors | Standard low-temp reach-in | Lodging | Refrigeration | New | building | 666 | 20% | 0.2 | 10 | \$2,336 | 8% | 0.1 |
| DLC | Quick acting freezer doors | Std. Freezer Doors | Lodging | Refrigeration | Existing | building | 7,663 | 13% | 0.1 | 10 | \$1,318 | 56% | 0.4 |
| DLC | Quick acting freezer doors | Std. Freezer Doors | Lodging | Refrigeration | New | building | 7,663 | 13% | 0.1 | 10 | \$1,318 | 56% | 0.4 |
| DLC | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Lodging | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 29% | 0.5 |
| DLC | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Lodging | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 29% | 1.8 |
| DLC | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Lodging | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 29% | 1.8 |
| DLC | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 29% | 1.8 |
| DLC | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 29% | 3.3 |
| DLC | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 29% | 3.3 |
| DLC | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 29% | 1.9 |
| DLC | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 29% | 4.4 |
| DLC | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 29% | 4.4 |
| DLC | Refrigeration Commissioning | Non-commissioned refrigeration system | Lodging | Refrigeration | Existing | building | 16,660 | 9.5% | 0.10 | 3 | \$4,029 | 85% | 0.0 |
| DLC | Refrigeration Commissioning | Non-commissioned refrigeration system | Lodging | Refrigeration | New | building | 16,660 | 9.5% | 0.10 | 3 | \$4,029 | 85% | 0.0 |
| DLC | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Lodging | Refrigeration | Existing | building | 7,663 | 24% | 0.2 | 4 | \$100 | 22% | 3.3 |
| DLC | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Lodging | Refrigeration | Existing | building | 7,830 | 4.1% | 0.04 | 4 | \$120 | 22% | 0.5 |
| DLC | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Lodging | Refrigeration | New | building | 7,663 | 24% | 0.2 | 4 | \$100 | 22% | 3.3 |
| DLC | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Lodging | Refrigeration | New | building | 7,830 | 4.1% | 0.04 | 4 | \$120 | 22% | 0.5 |
| DLC | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Lodging | Refrigeration | Existing | building | 7,663 | 4.4% | 0.04 | 11 | \$140 | 79% | 1.3 |
| DLC | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Lodging | Refrigeration | New | building | 7,663 | 4.4% | 0.04 | 11 | \$140 | 79% | 1.3 |
| DLC | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Lodging | Refrigeration | Existing | building | 7,830 | 3.3% | 0.03 | 11 | \$140 | 79% | 1.0 |
| DLC | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Lodging | Refrigeration | New | building | 7,830 | 3.3% | 0.03 | 11 | \$140 | 79% | 1.0 |
| DLC | Vendor Miser | No Vendor Miser | Lodging | Refrigeration | Existing | machine | 666 | 12% | 0.1 | 8 | \$68 | 7% | 1.4 |
| DLC | Vertical Night Covers | Display cases w/out night covers-High Temperature | Lodging | Refrigeration | Existing | building | 666 | 0.4% | 0.00 | 5 | \$52 | 9% | 0.0 |
| DLC | Vertical Night Covers | Display cases w/out night covers-High Temperature | Lodging | Refrigeration | New | building | 666 | 0.4% | 0.00 | 5 | \$52 | 9% | 0.0 |
| DLC | VSD Controlled Compressor | Compressor w/out VSD | Lodging | Refrigeration | Early | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 73% | 0.2 |
| DLC | VSD Controlled Compressor | Compressor w/out VSD | Lodging | Refrigeration | New | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 73% | 0.2 |
| DLC | VSD Controlled Compressor | Compressor w/out VSD | Lodging | Refrigeration | ROB | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 73% | 0.2 |
| DLC | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Lodging | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$268 | 35% | 1.0 |
| DLC | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Lodging | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$268 | 35% | 1.0 |
| DLC | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Lodging | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.5 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|--|---------|-----------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Lodging | Refrigeration | New | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 3.3 |
| DLC | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Lodging | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.5 |
| DLC | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Lodging | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 3.3 |
| DLC | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 35% | 2.7 |
| DLC | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 35% | 2.5 |
| DLC | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 5.7 |
| DLC | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 5.4 |
| DLC | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 5.7 |
| DLC | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 5.4 |
| DLC | Adding reflective roof treatment | Std color roof | Lodging | Space Heating | Existing | building | 11,022 | 7.1% | 0.07 | 6 | \$17,503 | 82% | 0.0 |
| DLC | Adding reflective roof treatment | Std color roof | Lodging | Space Heating | New | building | 11,022 | 7.1% | 0.07 | 6 | \$17,503 | 82% | 0.0 |
| DLC | Adding window shade film | No shade film | Lodging | Space Heating | Existing | building | 11,022 | 1.3% | 0.4 | 10 | \$134 | 13% | 2.4 |
| DLC | Adding window shade film | No shade film | Lodging | Space Heating | New | building | 11,022 | 1.3% | 0.4 | 10 | \$134 | 13% | 2.4 |
| DLC | Adding window shade screen | No shade screen | Lodging | Space Heating | Existing | building | 11,022 | 1.1% | 0.01 | 10 | \$52 | 13% | 1.1 |
| DLC | Adding window shade screen | No shade screen | Lodging | Space Heating | New | building | 11,022 | 1.1% | 0.01 | 10 | \$52 | 13% | 1.0 |
| DLC | Automated control system | Manual Controls | Lodging | Space Heating | Existing | building | 11,022 | 17% | 0.2 | 15 | \$12,066 | 51% | 0.1 |
| DLC | Automated control system | Manual Controls | Lodging | Space Heating | New | building | 11,022 | 17% | 0.2 | 15 | \$12,066 | 94% | 0.1 |
| DLC | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Lodging | Space Heating | Existing | building | 11,022 | 3.3% | 0.03 | 15 | \$23,552 | 71% | 0.0 |
| DLC | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Lodging | Space Heating | New | building | 11,022 | 1.1% | 0.01 | 15 | \$22,387 | 94% | 0.0 |
| DLC | Duct Insulation, Add R8 | No Insulation | Lodging | Space Heating | Existing | building | 11,022 | 1.4% | 0.04 | 15 | \$88 | 20% | 1.5 |
| DLC | Duct Insulation, Add R8 | No Insulation | Lodging | Space Heating | New | building | 11,022 | 1.4% | 0.04 | 15 | \$88 | 10% | 1.5 |
| DLC | Efficient Unit Heating System | Existing Unit Heaters in PA | Lodging | Space Heating | Early | heater | 71,298 | 23% | 0.1 | 15 | \$3,289 | 83% | 3.0 |
| DLC | Efficient Unit Heating System | Std. Unit Heater | Lodging | Space Heating | New | heater | 63,277 | 13% | 0.06 | 15 | \$1,991 | 83% | 2.5 |
| DLC | Efficient Unit Heating System | Std. Unit Heater | Lodging | Space Heating | ROB | heater | 63,277 | 13% | 0.06 | 15 | \$1,991 | 83% | 2.5 |
| DLC | Facility Commissioning | No Facility Commissioning | Lodging | Space Heating | New | building | 11,022 | 16% | 0.2 | 10 | \$2,299 | 89% | 0.4 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Lodging | Space Heating | Existing | building | 11,022 | 7.1% | 0.07 | 15 | \$48,890 | 25% | 0.0 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Lodging | Space Heating | New | building | 11,022 | 7.1% | 0.07 | 15 | \$48,890 | 35% | 0.0 |
| DLC | Hi Eff HVAC System Design | No HVAC Design | Lodging | Space Heating | New | building | 11,022 | 7.3% | 0.07 | 10 | \$65,797 | 51% | 0.0 |
| DLC | Hotel Occupancy Sensor | HVAC system w/out Occupancy Sensors | Lodging | Space Heating | Existing | building | 11,022 | 3.5% | 0.04 | 15 | \$11,644 | 89% | 0.0 |
| DLC | Hotel Occupancy Sensor | HVAC system w/out Occupancy Sensors | Lodging | Space Heating | New | building | 11,022 | 3.5% | 0.04 | 15 | \$11,644 | 94% | 0.0 |
| DLC | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Lodging | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 1.1 |
| DLC | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Lodging | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 1.1 |
| DLC | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Lodging | Space Heating | Existing | building | 11,022 | 3.5% | 0.04 | 10 | \$7,735 | 81% | 0.0 |
| DLC | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Lodging | Space Heating | New | building | 11,022 | 3.5% | 0.04 | 10 | \$7,735 | 81% | 0.0 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Lodging | Space Heating | Existing | building | 11,022 | 3.6% | 0.04 | 11 | \$286 | 49% | 0.7 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Lodging | Space Heating | New | building | 11,022 | 3.1% | 0.03 | 11 | \$146 | 49% | 1.2 |
| DLC | Re-Commissioning (Existing Construction) | No Re-Commissioning | Lodging | Space Heating | Existing | building | 11,022 | 16% | 0.2 | 5 | \$12,530 | 86% | 0.0 |
| DLC | VFD on Cooling Tower Fan | Motor w/out VFD | Lodging | Space Heating | Early | motor | 56,640 | 70% | 3.4 | 15 | \$2,843 | 88% | 9.6 |
| DLC | VFD on Cooling Tower Fan | Motor w/out VFD | Lodging | Space Heating | New | motor | 55,580 | 72% | 3.3 | 15 | \$2,843 | 88% | 9.5 |
| DLC | VFD on Cooling Tower Fan | Motor w/out VFD | Lodging | Space Heating | ROB | motor | 55,580 | 72% | 3.3 | 15 | \$2,843 | 88% | 9.5 |
| DLC | Wall Insualtions (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Lodging | Space Heating | Existing | building | 11,022 | 8.0% | 0.08 | 15 | \$6,019 | 26% | 0.1 |
| DLC | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Lodging | Space Heating | New | building | 11,022 | 0.2% | 0.00 | 15 | \$4,617 | 94% | 0.0 |
| DLC | 80W Induction Street Lighting | One 100W HPS Street Light Fixture | Lodging | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 0% | 0.3 |
| DLC | 80W Induction Street Lighting | One 100W HPS Street Light Fixture | Lodging | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.9 |
| DLC | 80W Induction Street Lighting | One 100W HPS Street Light Fixture | Lodging | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.9 |
| DLC | Green LED Traffic Light | Green Incandescent Traffic Light | Lodging | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 0% | 1.3 |
| DLC | Green LED Traffic Light | Green Incandescent Traffic Light | Lodging | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.2 |
| DLC | Green LED Traffic Light | Green Incandescent Traffic Light | Lodging | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.2 |
| DLC | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Lodging | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 0% | 3.1 |
| DLC | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Lodging | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| DLC | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Lodging | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| DLC | LED Street Lighting (67W) | One 100W HPS Street Light | Lodging | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 0% | 0.2 |
| DLC | LED Street Lighting (67W) | One 100W HPS Street Light | Lodging | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.4 |
| DLC | LED Street Lighting (67W) | One 100W HPS Street Light | Lodging | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.4 |
| DLC | Red LED Traffic Light | One Red Incandescent Traffic Light | Lodging | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 0% | 1.7 |
| DLC | Red LED Traffic Light | One Red Incandescent Traffic Light | Lodging | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| DLC | Red LED Traffic Light | One Red Incandescent Traffic Light | Lodging | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| DLC | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Lodging | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 0% | 0.1 |
| DLC | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Lodging | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| DLC | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Lodging | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| DLC | Demand controlled Circulating Systems | Constant circulation system | Lodging | Water Heating | Existing | building | 473 | 20% | 0.2 | 15 | \$86 | 59% | 2.9 |
| DLC | Demand controlled Circulating Systems | Constant circulation system | Lodging | Water Heating | New | building | 473 | 20% | 0.2 | 15 | \$86 | 59% | 2.9 |
| DLC | Drainwater Heat Recovery Water Heater | No heat recovery | Lodging | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 2.1 |
| DLC | Drainwater Heat Recovery Water Heater | No heat recovery | Lodging | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 2.1 |
| DLC | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Lodging | Water Heating | Existing | building | 473 | 5.9% | 0.06 | 12 | \$182 | 85% | 0.3 |
| DLC | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Lodging | Water Heating | New | building | 473 | 5.9% | 0.06 | 12 | \$52 | 85% | 1.2 |
| DLC | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Lodging | Water Heating | Early | water heater | 48,207 | 66% | 5.6 | 10 | \$2,375 | 68% | 6.9 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|---|---------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Lodging | Water Heating | Early | water heater | 48,207 | 66% | 5.6 | 10 | \$2,375 | 68% | 6.9 |
| DLC | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Lodging | Water Heating | New | water heater | 48,207 | 66% | 5.6 | 10 | \$2,375 | 68% | 6.9 |
| DLC | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Lodging | Water Heating | New | water heater | 48,207 | 66% | 5.6 | 10 | \$2,375 | 68% | 6.9 |
| DLC | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Lodging | Water Heating | ROB | water heater | 46,868 | 65% | 5.4 | 10 | \$2,375 | 68% | 6.6 |
| DLC | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Lodging | Water Heating | ROB | water heater | 46,868 | 65% | 5.4 | 10 | \$2,375 | 68% | 6.6 |
| DLC | Heat Recovery Unit | Base Water Heating | Lodging | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.8 |
| DLC | Heat Recovery Unit | Base Water Heating | Lodging | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.8 |
| DLC | Heat Trap | No Heat Trap | Lodging | Water Heating | Existing | building | 473 | 21% | 0.2 | 11 | \$2.8 | 50% | 71.5 |
| DLC | Heat Trap | No Heat Trap | Lodging | Water Heating | New | building | 473 | 21% | 0.2 | 11 | \$0.9 | 50% | 232.2 |
| DLC | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Lodging | Water Heating | Early | water heater | 48,207 | 5.9% | 0.5 | 15 | \$614 | 79% | 3.6 |
| DLC | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Lodging | Water Heating | Early | water heater | 48,207 | 5.9% | 0.5 | 15 | \$614 | 79% | 3.6 |
| DLC | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Lodging | Water Heating | New | water heater | 46,868 | 3.2% | 0.3 | 15 | \$614 | 79% | 1.9 |
| DLC | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Lodging | Water Heating | New | water heater | 46,868 | 3.2% | 0.3 | 15 | \$614 | 79% | 1.9 |
| DLC | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Lodging | Water Heating | ROB | water heater | 46,868 | 3.2% | 0.3 | 15 | \$614 | 79% | 1.9 |
| DLC | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Lodging | Water Heating | ROB | water heater | 46,868 | 3.2% | 0.3 | 15 | \$614 | 79% | 1.9 |
| DLC | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Lodging | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$466 | 81% | 43.7 |
| DLC | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Lodging | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 22.8 |
| DLC | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Lodging | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 22.8 |
| DLC | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Lodging | Water Heating | Existing | building | 473 | 1.3% | 0.01 | 13 | \$8.7 | 68% | 1.7 |
| DLC | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Lodging | Water Heating | New | building | 473 | 1.3% | 0.01 | 13 | \$8.7 | 0% | 1.7 |
| DLC | Hot Water Circulation Pump Time-Clock | Constant circulation system | Lodging | Water Heating | Existing | building | 473 | 5.3% | 0.05 | 10 | \$1.9 | 72% | 24.8 |
| DLC | Hot Water Circulation Pump Time-Clock | Constant circulation system | Lodging | Water Heating | New | building | 473 | 5.3% | 0.05 | 10 | \$1.9 | 72% | 24.8 |
| DLC | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Lodging | Water Heating | Existing | building | 473 | 0.2% | 0.00 | 7 | \$22 | 78% | 0.1 |
| DLC | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Lodging | Water Heating | New | building | 473 | 0.2% | 0.00 | 7 | \$0.5 | 78% | 2.6 |
| DLC | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Lodging | Water Heating | Existing | building | 473 | 4.2% | 0.04 | 5 | \$300 | 20% | 0.1 |
| DLC | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Lodging | Water Heating | New | building | 473 | 2.8% | 0.03 | 5 | \$194 | 20% | 0.1 |
| DLC | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Lodging | Water Heating | Existing | building | 473 | 6.5% | 0.07 | 9 | \$625 | 85% | 0.1 |
| DLC | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Lodging | Water Heating | New | building | 473 | 6.5% | 0.07 | 9 | \$150 | 85% | 0.4 |
| DLC | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Lodging | Water Heating | Early | water heater | 48,207 | 52% | 2.0 | 15 | \$12,444 | 32% | 1.4 |
| DLC | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Lodging | Water Heating | New | water heater | 46,868 | 51% | 1.9 | 15 | \$12,444 | 32% | 1.3 |
| DLC | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Lodging | Water Heating | ROB | water heater | 46,868 | 51% | 1.9 | 15 | \$12,444 | 32% | 1.3 |
| DLC | Ultrasonic Faucet Control | Manual Faucet Control | Lodging | Water Heating | Existing | building | 473 | 3.0% | 0.03 | 10 | \$82 | 77% | 0.3 |
| DLC | Ultrasonic Faucet Control | Manual Faucet Control | Lodging | Water Heating | New | building | 473 | 3.0% | 0.03 | 10 | \$82 | 77% | 0.3 |
| DLC | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Lodging | Water Heating | Existing | building | 473 | 2.2% | 0.02 | 4 | \$28 | 83% | 0.3 |
| DLC | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Lodging | Water Heating | New | building | 473 | 2.3% | 0.02 | 4 | \$28 | 83% | 0.3 |
| DLC | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Misc. | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.2 |
| DLC | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Misc. | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.2 |
| DLC | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Misc. | Cooking | Early | steamer | 51 | 46% | 0.00 | 12 | \$5,053 | 81% | 0.0 |
| DLC | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Misc. | Cooking | New | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| DLC | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Misc. | Cooking | ROB | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| DLC | Electric combination oven (Energy Star) | Standard Oven | Misc. | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 3.3 |
| DLC | Electric combination oven (Energy Star) | Standard Oven | Misc. | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 3.3 |
| DLC | Electric Convection Oven ENERTY STAR (74% Eff) | Conventional convection oven w/ 65% efficiency | Misc. | Cooking | Early | oven | 8,641 | 37% | 0.6 | 12 | \$4,119 | 81% | 0.5 |
| DLC | Electric Convection Oven ENERTY STAR (74% Eff) | Conventional convection oven w/ 70% efficiency | Misc. | Cooking | New | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.8 |
| DLC | Electric Convection Oven ENERTY STAR (74% Eff) | Conventional convection oven w/ 70% efficiency | Misc. | Cooking | ROB | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.8 |
| DLC | High Efficiency Fryer (ENERGY STAR 84% Eff) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Misc. | Cooking | Early | fryer | 6,105 | 23% | 0.3 | 12 | \$9,241 | 86% | 0.1 |
| DLC | High Efficiency Fryer (ENERGY STAR 84% Eff) | Standard Electric Fryer meeting Code Minimum | Misc. | Cooking | New | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.4 |
| DLC | High Efficiency Fryer (ENERGY STAR 84% Eff) | Standard Electric Fryer meeting Code Minimum | Misc. | Cooking | ROB | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.4 |
| DLC | High Efficiency Griddle (ENERGY STAR 75% Eff) | Efficiency code minimum griddle (70% eff) | Misc. | Cooking | Early | griddle | 11,317 | 65% | 1.4 | 12 | \$4,977 | 86% | 1.0 |
| DLC | High Efficiency Griddle (ENERGY STAR 75% Eff) | Conventional Griddle w/ 60% efficiency | Misc. | Cooking | New | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.3 |
| DLC | High Efficiency Griddle (ENERGY STAR 75% Eff) | Conventional Griddle w/ 60% efficiency | Misc. | Cooking | ROB | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.3 |
| DLC | High Efficiency Induction Cooking | Standard Cooking | Misc. | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.2 |
| DLC | High Efficiency Induction Cooking | Standard Cooking | Misc. | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.2 |
| DLC | Adding reflective roof treatment | Std color roof | Misc. | Cooling Central | Existing | building | 2,460 | 7.0% | 0.07 | 6 | \$12,324 | 82% | 0.0 |
| DLC | Adding reflective roof treatment | Std color roof | Misc. | Cooling Central | New | building | 2,460 | 7.0% | 0.07 | 6 | \$12,324 | 82% | 0.0 |
| DLC | Adding window shade film | No shade film | Misc. | Cooling Central | Existing | building | 2,460 | 1.3% | 0.4 | 10 | \$30 | 13% | 9.2 |
| DLC | Adding window shade film | No shade film | Misc. | Cooling Central | New | building | 2,460 | 1.3% | 0.4 | 10 | \$30 | 13% | 9.2 |
| DLC | Adding window shade screen | No shade screen | Misc. | Cooling Central | Existing | building | 2,460 | 1.1% | 0.01 | 10 | \$12 | 13% | 1.5 |
| DLC | Adding window shade screen | No shade screen | Misc. | Cooling Central | New | building | 2,460 | 1.0% | 0.01 | 10 | \$12 | 13% | 1.5 |
| DLC | Automated control system | Manual Controls | Misc. | Cooling Central | Existing | building | 2,460 | 17% | 0.2 | 15 | \$2,694 | 51% | 0.2 |
| DLC | Automated control system | Manual Controls | Misc. | Cooling Central | New | building | 2,460 | 17% | 0.2 | 15 | \$2,694 | 94% | 0.2 |
| DLC | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Misc. | Cooling Central | Existing | building | 2,460 | 4.9% | 0.05 | 15 | \$17,130 | 71% | 0.0 |
| DLC | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Misc. | Cooling Central | New | building | 2,460 | 1.7% | 0.02 | 15 | \$16,283 | 94% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|---|---------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Chiller Tuneup/Diagnostics | No tuneup | Misc. | Cooling Central | Existing | building | 2,460 | 8.0% | 0.08 | 10 | \$6,283 | 59% | 0.0 |
| DLC | Chiller Tuneup/Diagnostics | No tuneup | Misc. | Cooling Central | New | building | 2,460 | 8.0% | 0.08 | 10 | \$6,283 | 59% | 0.0 |
| DLC | Duct Insulation, Add R8 | No Insulation | Misc. | Cooling Central | Existing | building | 2,460 | 1.4% | 0.04 | 15 | \$20 | 20% | 3.0 |
| DLC | Duct Insulation, Add R8 | No Insulation | Misc. | Cooling Central | New | building | 2,460 | 1.4% | 0.04 | 15 | \$20 | 10% | 3.0 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Misc. | Cooling Central | Existing | building | 2,460 | 7.0% | 0.07 | 15 | \$10,914 | 25% | 0.0 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Misc. | Cooling Central | New | building | 2,460 | 7.0% | 0.07 | 15 | \$10,914 | 35% | 0.0 |
| DLC | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Misc. | Cooling Central | Early | ton | 5,094 | 24% | 0.4 | 15 | \$108,550 | 88% | 0.0 |
| DLC | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Misc. | Cooling Central | New | ton | 4,164 | 6.7% | 0.10 | 15 | \$12,927 | 88% | 0.0 |
| DLC | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Misc. | Cooling Central | ROB | ton | 4,164 | 6.7% | 0.10 | 15 | \$12,927 | 88% | 0.0 |
| DLC | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Misc. | Cooling Central | Early | ton | 7,611 | 23% | 0.6 | 15 | \$140,105 | 88% | 0.0 |
| DLC | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Misc. | Cooling Central | New | ton | 6,124 | 4.8% | 0.1 | 15 | \$9,336 | 88% | 0.0 |
| DLC | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Misc. | Cooling Central | ROB | ton | 6,124 | 4.8% | 0.1 | 15 | \$9,336 | 88% | 0.0 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Misc. | Cooling Central | Early | ton | 62,308 | 26% | 5.6 | 15 | \$105,354 | 88% | 0.1 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Misc. | Cooling Central | New | ton | 54,288 | 15% | 2.8 | 15 | \$30,530 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Misc. | Cooling Central | ROB | ton | 54,288 | 15% | 2.8 | 15 | \$30,530 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Misc. | Cooling Central | Early | ton | 93,320 | 23% | 7.4 | 15 | \$154,107 | 88% | 0.1 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Misc. | Cooling Central | New | ton | 85,726 | 16% | 4.8 | 15 | \$27,646 | 88% | 0.5 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Misc. | Cooling Central | ROB | ton | 93,320 | 23% | 7.4 | 15 | \$27,646 | 88% | 0.7 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Misc. | Cooling Central | Early | ton | 154,988 | 23% | 12.2 | 15 | \$302,924 | 88% | 0.1 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Misc. | Cooling Central | New | ton | 140,275 | 14% | 7.0 | 15 | \$115,432 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Misc. | Cooling Central | ROB | ton | 154,988 | 23% | 12.2 | 15 | \$115,432 | 88% | 0.3 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Misc. | Cooling Central | Early | ton | 185,985 | 23% | 14.6 | 15 | \$350,154 | 88% | 0.1 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Misc. | Cooling Central | New | ton | 168,330 | 14% | 8.5 | 15 | \$120,406 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Misc. | Cooling Central | ROB | ton | 185,985 | 23% | 14.6 | 15 | \$120,406 | 88% | 0.3 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Misc. | Cooling Central | Early | ton | 41,225 | 29% | 4.2 | 15 | \$83,632 | 88% | 0.1 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Misc. | Cooling Central | New | ton | 32,011 | 8.9% | 1.0 | 15 | \$40,211 | 88% | 0.1 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Misc. | Cooling Central | ROB | ton | 41,225 | 29% | 4.2 | 15 | \$40,211 | 88% | 0.3 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Misc. | Cooling Central | Early | ton | 70,835 | 35% | 8.6 | 15 | \$132,173 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Misc. | Cooling Central | New | ton | 52,831 | 13% | 2.3 | 15 | \$39,556 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Misc. | Cooling Central | ROB | ton | 52,831 | 13% | 2.3 | 15 | \$39,556 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Misc. | Cooling Central | Early | ton | 118,265 | 39% | 16.1 | 15 | \$187,029 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Misc. | Cooling Central | New | ton | 84,321 | 15% | 4.3 | 15 | \$33,554 | 88% | 0.3 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Misc. | Cooling Central | ROB | ton | 118,265 | 39% | 16.1 | 15 | \$33,554 | 88% | 1.3 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Misc. | Cooling Central | Early | ton | 20,695 | 30% | 2.1 | 15 | \$32,398 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Misc. | Cooling Central | New | ton | 16,396 | 11% | 0.6 | 15 | \$7,188 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Misc. | Cooling Central | ROB | ton | 20,695 | 30% | 2.1 | 15 | \$7,188 | 88% | 0.8 |
| DLC | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Misc. | Cooling Central | Existing | building | 2,460 | 2.2% | 0.02 | 10 | \$41,718 | 81% | 0.0 |
| DLC | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Misc. | Cooling Central | New | building | 2,460 | 2.2% | 0.02 | 10 | \$41,718 | 81% | 0.0 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Misc. | Cooling Central | Existing | building | 2,460 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.1 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Misc. | Cooling Central | New | building | 2,460 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.2 |
| DLC | Re-Commissioning (Existing Construction) | No Re-Commissioning | Misc. | Cooling Central | Existing | building | 2,460 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |
| DLC | Wall Insulations (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Misc. | Cooling Central | Existing | building | 2,460 | 14% | 0.1 | 15 | \$5,133 | 26% | 0.1 |
| DLC | Wall Insulations (Going upto R 21) | Code minimum Wall Insulations | Misc. | Cooling Central | New | building | 2,460 | 0.4% | 0.00 | 15 | \$3,937 | 94% | 0.0 |
| DLC | <65k BTU/hr 14 SEER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Misc. | Cooling Unitary | Early | ton | 2,614 | 16% | 0.2 | 15 | \$1,545 | 29% | 0.3 |
| DLC | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Misc. | Cooling Unitary | New | ton | 2,368 | 7.1% | 0.09 | 15 | \$339 | 29% | 0.6 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|--|---------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Misc. | Cooling Unitary | ROB | ton | 2,368 | 7.1% | 0.09 | 15 | \$339 | 29% | 0.6 |
| DLC | <65k BTU/hr 15 SEER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Misc. | Cooling Unitary | Early | ton | 2,614 | 22% | 0.3 | 15 | \$1,821 | 30% | 0.3 |
| DLC | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Misc. | Cooling Unitary | New | ton | 2,368 | 13% | 0.2 | 15 | \$714 | 30% | 0.5 |
| DLC | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Misc. | Cooling Unitary | ROB | ton | 2,368 | 13% | 0.2 | 15 | \$714 | 30% | 0.5 |
| DLC | <65k BTU/hr 16 SEER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Misc. | Cooling Unitary | Early | ton | 2,614 | 26% | 0.4 | 15 | \$2,098 | 31% | 0.4 |
| DLC | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Misc. | Cooling Unitary | New | ton | 2,368 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.5 |
| DLC | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Misc. | Cooling Unitary | ROB | ton | 2,368 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.5 |
| DLC | >760k min 10.2 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Misc. | Cooling Unitary | Early | ton | 66,142 | 3.7% | 1.3 | 15 | \$68,066 | 56% | 0.0 |
| DLC | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Misc. | Cooling Unitary | New | ton | 66,990 | 4.9% | 1.7 | 15 | \$6,231 | 56% | 0.6 |
| DLC | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Misc. | Cooling Unitary | ROB | ton | 66,990 | 4.9% | 1.7 | 15 | \$6,231 | 56% | 0.6 |
| DLC | 135-240k min 12 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Misc. | Cooling Unitary | Early | ton | 16,274 | 18% | 1.6 | 15 | \$18,135 | 79% | 0.2 |
| DLC | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Misc. | Cooling Unitary | New | ton | 14,804 | 10.0% | 0.8 | 15 | \$1,948 | 65% | 0.8 |
| DLC | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Misc. | Cooling Unitary | ROB | ton | 14,804 | 10.0% | 0.8 | 15 | \$1,948 | 79% | 0.8 |
| DLC | 240k-760k min 11 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Misc. | Cooling Unitary | Early | ton | 43,623 | 9.3% | 2.1 | 15 | \$44,809 | 66% | 0.1 |
| DLC | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Misc. | Cooling Unitary | New | ton | 43,623 | 9.3% | 2.1 | 15 | \$4,813 | 66% | 0.9 |
| DLC | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Misc. | Cooling Unitary | ROB | ton | 43,623 | 9.3% | 2.1 | 15 | \$4,813 | 66% | 0.9 |
| DLC | 65k-135k BTU/hr 12 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Misc. | Cooling Unitary | Early | ton | 9,594 | 17% | 0.9 | 15 | \$10,946 | 86% | 0.2 |
| DLC | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Misc. | Cooling Unitary | New | ton | 8,550 | 6.7% | 0.3 | 15 | \$1,392 | 86% | 0.5 |
| DLC | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Misc. | Cooling Unitary | ROB | ton | 8,550 | 6.7% | 0.3 | 15 | \$1,392 | 86% | 0.5 |
| DLC | Adding reflective roof treatment | Std color roof | Misc. | Cooling Unitary | Existing | building | 29,350 | 7.0% | 0.07 | 6 | \$12,324 | 82% | 0.0 |
| DLC | Adding reflective roof treatment | Std color roof | Misc. | Cooling Unitary | New | building | 29,350 | 7.0% | 0.07 | 6 | \$12,324 | 82% | 0.0 |
| DLC | Adding window shade film | No shade film | Misc. | Cooling Unitary | Existing | building | 29,350 | 1.3% | 0.4 | 10 | \$357 | 12% | 1.2 |
| DLC | Adding window shade film | No shade film | Misc. | Cooling Unitary | New | building | 29,350 | 1.3% | 0.4 | 10 | \$357 | 13% | 1.2 |
| DLC | Adding window shade screen | No shade screen | Misc. | Cooling Unitary | Existing | building | 29,350 | 1.1% | 0.01 | 10 | \$138 | 12% | 1.0 |
| DLC | Adding window shade screen | No shade screen | Misc. | Cooling Unitary | New | building | 29,350 | 1.1% | 0.01 | 10 | \$138 | 13% | 1.0 |
| DLC | Automated control system | Manual Controls | Misc. | Cooling Unitary | Existing | building | 29,350 | 17% | 0.2 | 15 | \$32,132 | 51% | 0.1 |
| DLC | Automated control system | Manual Controls | Misc. | Cooling Unitary | New | building | 29,350 | 17% | 0.2 | 15 | \$32,132 | 94% | 0.1 |
| DLC | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Misc. | Cooling Unitary | Existing | building | 29,350 | 4.9% | 0.05 | 15 | \$17,130 | 71% | 0.1 |
| DLC | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Misc. | Cooling Unitary | New | building | 29,350 | 1.7% | 0.02 | 15 | \$16,283 | 94% | 0.0 |
| DLC | Duct Insulation, Add R8 | No Insulation | Misc. | Cooling Unitary | Existing | building | 29,350 | 1.4% | 0.04 | 15 | \$233 | 20% | 1.2 |
| DLC | Duct Insulation, Add R8 | No Insulation | Misc. | Cooling Unitary | New | building | 29,350 | 1.4% | 0.04 | 15 | \$233 | 10% | 1.2 |
| DLC | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Misc. | Cooling Unitary | Existing | building | 16,143 | 13% | 0.1 | 1 | \$155 | 73% | 0.6 |
| DLC | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Misc. | Cooling Unitary | New | building | 16,143 | 13% | 0.1 | 1 | \$155 | 73% | 0.6 |
| DLC | ECM Motors for split systems | Std Shaded Pole Motor | Misc. | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 3.2 |
| DLC | ECM Motors for split systems | Std Shaded Pole Motor | Misc. | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 3.2 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Misc. | Cooling Unitary | Existing | building | 29,350 | 7.1% | 0.07 | 15 | \$130,192 | 25% | 0.0 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Misc. | Cooling Unitary | New | building | 29,350 | 7.1% | 0.07 | 15 | \$130,192 | 35% | 0.0 |
| DLC | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Misc. | Cooling Unitary | Existing | building | 29,350 | 5.0% | 0.05 | 5 | \$225 | 59% | 1.3 |
| DLC | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Misc. | Cooling Unitary | Existing | building | 29,350 | 0.5% | 0.05 | 5 | \$225 | 51% | 0.2 |
| DLC | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Misc. | Cooling Unitary | New | building | 29,350 | 0.5% | 0.05 | 5 | \$135 | 51% | 0.3 |
| DLC | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Misc. | Cooling Unitary | Existing | building | 29,350 | 2.2% | 0.02 | 10 | \$44,835 | 86% | 0.0 |
| DLC | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Misc. | Cooling Unitary | New | building | 29,350 | 2.2% | 0.02 | 10 | \$44,835 | 86% | 0.0 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) | Misc. | Cooling Unitary | Existing | building | 29,350 | 2.0% | 0.02 | 11 | \$286 | 49% | 1.0 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Misc. | Cooling Unitary | New | building | 29,350 | 1.7% | 0.02 | 11 | \$146 | 49% | 1.6 |
| DLC | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Misc. | Cooling Unitary | Early | unit | 180 | 19% | 0.09 | 15 | \$849 | 85% | 0.1 |
| DLC | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Misc. | Cooling Unitary | New | unit | 182 | 20% | 0.09 | 15 | \$356 | 85% | 0.3 |
| DLC | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Misc. | Cooling Unitary | ROB | unit | 182 | 20% | 0.09 | 15 | \$356 | 85% | 0.3 |
| DLC | Re-Commissioning (Existing Construction) | No Re-Commissioning | Misc. | Cooling Unitary | Existing | building | 29,350 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.1 |
| DLC | Room AC (w/ louvered sides) | Existing efficiency Room AC in Pennsylvania (2000 Federal Standards) | Misc. | Cooling Unitary | Early | ton | 1,185 | 13% | 0.06 | 9 | \$348 | 82% | 0.3 |
| DLC | Room AC (w/ louvered sides) | Std Room AC (Code Min. Federal Standards) | Misc. | Cooling Unitary | New | ton | 1,074 | 4.5% | 0.02 | 9 | \$17 | 82% | 1.6 |
| DLC | Room AC (w/ louvered sides) | Std Room AC (Code Min. Federal Standards) | Misc. | Cooling Unitary | ROB | ton | 1,074 | 4.5% | 0.02 | 9 | \$17 | 82% | 1.6 |
| DLC | Wall Insualtions (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Misc. | Cooling Unitary | Existing | building | 29,350 | 14% | 0.1 | 15 | \$5,133 | 26% | 0.5 |
| DLC | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Misc. | Cooling Unitary | New | building | 29,350 | 0.4% | 0.00 | 15 | \$3,937 | 94% | 0.0 |
| DLC | 80W Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Misc. | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 0% | 0.2 |
| DLC | 80W Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Misc. | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| DLC | 80W Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Misc. | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| DLC | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Misc. | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 1.2 |
| DLC | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Misc. | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.7 |
| DLC | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Misc. | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.7 |
| DLC | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Misc. | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 53% | 0.3 |
| DLC | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Misc. | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 53% | 0.2 |
| DLC | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Misc. | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 53% | 3.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|---|---------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Misc. | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 53% | 2.3 |
| DLC | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Misc. | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 53% | 3.1 |
| DLC | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Misc. | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 53% | 2.3 |
| DLC | Photocell Controls (Outdoor) | Lighting w/ No Controls | Misc. | Ext. Lighting | Existing | building | 241 | 28% | 0.3 | 8 | \$4,908 | 88% | 0.0 |
| DLC | Photocell Controls (Outdoor) | Lighting w/ No Controls | Misc. | Ext. Lighting | New | building | 241 | 28% | 0.3 | 8 | \$4,908 | 0% | 0.0 |
| DLC | Adding reflective roof treatment | Std color roof | Misc. | Heat Pump | Existing | building | 2,502 | 6.9% | 0.07 | 6 | \$12,324 | 82% | 0.0 |
| DLC | Adding reflective roof treatment | Std color roof | Misc. | Heat Pump | New | building | 2,502 | 6.9% | 0.07 | 6 | \$12,324 | 82% | 0.0 |
| DLC | Adding window shade film | No shade film | Misc. | Heat Pump | Existing | building | 2,502 | 3.9% | 0.4 | 10 | \$30 | 12% | 9.8 |
| DLC | Adding window shade film | No shade film | Misc. | Heat Pump | New | building | 2,502 | 3.9% | 0.4 | 10 | \$30 | 12% | 9.8 |
| DLC | Adding window shade screen | No shade screen | Misc. | Heat Pump | Existing | building | 2,502 | 0.3% | 0.01 | 10 | \$3.9 | 12% | 2.6 |
| DLC | Adding window shade screen | No shade screen | Misc. | Heat Pump | New | building | 2,502 | 0.3% | 0.01 | 10 | \$3.9 | 12% | 2.6 |
| DLC | Automated control system | Manual Controls | Misc. | Heat Pump | Existing | building | 2,502 | 17% | 0.2 | 15 | \$2,739 | 51% | 0.2 |
| DLC | Automated control system | Manual Controls | Misc. | Heat Pump | New | building | 2,502 | 17% | 0.2 | 15 | \$2,739 | 94% | 0.2 |
| DLC | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Misc. | Heat Pump | Existing | building | 2,502 | 4.9% | 0.05 | 15 | \$17,130 | 71% | 0.0 |
| DLC | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Misc. | Heat Pump | New | building | 2,502 | 1.7% | 0.02 | 15 | \$16,283 | 94% | 0.0 |
| DLC | Duct Insulation, Add R8 | No Insulation | Misc. | Heat Pump | Existing | building | 2,502 | 4.0% | 0.04 | 15 | \$20 | 12% | 5.0 |
| DLC | Duct Insulation, Add R8 | No Insulation | Misc. | Heat Pump | New | building | 2,502 | 4.0% | 0.04 | 15 | \$20 | 6% | 5.0 |
| DLC | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Misc. | Heat Pump | Early | heat pump | 2,281 | 12% | 0.02 | 15 | \$4,070 | 83% | 0.0 |
| DLC | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Misc. | Heat Pump | New | heat pump | 2,182 | 7.8% | 0.01 | 15 | \$1,097 | 83% | 0.1 |
| DLC | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Misc. | Heat Pump | ROB | heat pump | 2,182 | 7.8% | 0.01 | 15 | \$1,097 | 83% | 0.1 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Misc. | Heat Pump | Existing | building | 2,502 | 7.0% | 0.07 | 15 | \$11,099 | 25% | 0.0 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Misc. | Heat Pump | New | building | 2,502 | 7.0% | 0.07 | 15 | \$11,099 | 35% | 0.0 |
| DLC | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Misc. | Heat Pump | Early | heat pump | 23,587 | 16% | 0.3 | 15 | \$91,117 | 19% | 0.0 |
| DLC | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Misc. | Heat Pump | New | heat pump | 22,730 | 13% | 0.3 | 15 | \$33,927 | 19% | 0.1 |
| DLC | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Misc. | Heat Pump | ROB | heat pump | 22,730 | 13% | 0.3 | 15 | \$33,927 | 19% | 0.1 |
| DLC | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Misc. | Heat Pump | Early | heat pump | 23,587 | 16% | 0.3 | 15 | \$58,356 | 19% | 0.0 |
| DLC | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Misc. | Heat Pump | New | heat pump | 22,730 | 13% | 0.3 | 15 | \$1,167 | 19% | 1.7 |
| DLC | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Misc. | Heat Pump | ROB | heat pump | 22,730 | 13% | 0.3 | 15 | \$1,167 | 19% | 1.7 |
| DLC | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Misc. | Heat Pump | Early | heat pump | 6,103 | 17% | 0.09 | 12 | \$4,298 | 81% | 0.1 |
| DLC | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Misc. | Heat Pump | New | heat pump | 5,819 | 12% | 0.06 | 12 | \$852 | 81% | 0.5 |
| DLC | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Misc. | Heat Pump | ROB | heat pump | 5,819 | 12% | 0.06 | 12 | \$852 | 81% | 0.5 |
| DLC | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Misc. | Heat Pump | Existing | building | 2,502 | 5.0% | 0.01 | 5 | \$90 | 51% | 0.3 |
| DLC | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Misc. | Heat Pump | New | building | 2,502 | 5.0% | 0.01 | 5 | \$90 | 51% | 0.3 |
| DLC | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Misc. | Heat Pump | Existing | building | 2,502 | 2.2% | 0.02 | 10 | \$39,918 | 81% | 0.0 |
| DLC | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Misc. | Heat Pump | New | building | 2,502 | 2.2% | 0.02 | 10 | \$39,918 | 81% | 0.0 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Misc. | Heat Pump | Existing | building | 2,502 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.2 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Misc. | Heat Pump | New | building | 2,502 | 2.1% | 0.02 | 11 | \$146 | 49% | 0.3 |
| DLC | Re-Commissioning (Existing Construction) | No Re-Commissioning | Misc. | Heat Pump | Existing | building | 2,502 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |
| DLC | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Misc. | Heat Pump | Existing | building | 2,502 | 14% | 0.1 | 15 | \$5,133 | 26% | 0.1 |
| DLC | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Misc. | Heat Pump | New | building | 2,502 | 0.4% | 0.00 | 15 | \$3,937 | 94% | 0.0 |
| DLC | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Misc. | Heat Pump | Early | heat pump | 9,790 | 35% | 0.3 | 15 | \$35,347 | 28% | 0.1 |
| DLC | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Misc. | Heat Pump | New | heat pump | 9,304 | 31% | 0.3 | 15 | \$15,739 | 28% | 0.1 |
| DLC | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Misc. | Heat Pump | ROB | heat pump | 9,304 | 31% | 0.3 | 15 | \$15,739 | 28% | 0.1 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Misc. | High Bay Lighting | Early | Fixture | 596 | 9.6% | 0.01 | 13 | \$850 | 39% | 0.0 |
| DLC | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Misc. | High Bay Lighting | Early | Fixture | 595 | 9.5% | 0.01 | 13 | \$850 | 28% | 0.0 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Misc. | High Bay Lighting | Early | Fixture | 919 | 41% | 0.09 | 13 | \$850 | 36% | 0.3 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Misc. | High Bay Lighting | New | Fixture | 453 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Misc. | High Bay Lighting | New | Fixture | 422 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Misc. | High Bay Lighting | New | Fixture | 699 | 41% | 0.07 | 13 | \$397 | 36% | 0.5 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Misc. | High Bay Lighting | ROB | Fixture | 596 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Misc. | High Bay Lighting | ROB | Fixture | 555 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Misc. | High Bay Lighting | ROB | Fixture | 919 | 41% | 0.09 | 13 | \$397 | 36% | 0.7 |
| DLC | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Misc. | High Bay Lighting | Early | Fixture | 1,157 | 19% | 0.05 | 13 | \$851 | 38% | 0.2 |
| DLC | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Misc. | High Bay Lighting | Early | Fixture | 1,171 | 20% | 0.06 | 13 | \$851 | 38% | 0.2 |
| DLC | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | Early | Fixture | 3,407 | 73% | 0.6 | 13 | \$851 | 38% | 2.2 |
| DLC | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Misc. | High Bay Lighting | New | Fixture | 879 | 19% | 0.04 | 13 | \$372 | 38% | 0.3 |
| DLC | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | New | Fixture | 2,590 | 73% | 0.5 | 13 | \$383 | 38% | 3.6 |
| DLC | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Misc. | High Bay Lighting | ROB | Fixture | 1,157 | 19% | 0.05 | 13 | \$372 | 38% | 0.4 |
| DLC | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | ROB | Fixture | 3,407 | 73% | 0.6 | 13 | \$383 | 38% | 4.8 |
| DLC | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Misc. | High Bay Lighting | Early | Fixture | 1,157 | 25% | 0.07 | 13 | \$554 | 29% | 0.4 |
| DLC | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Misc. | High Bay Lighting | Early | Fixture | 1,136 | 23% | 0.06 | 13 | \$554 | 28% | 0.4 |
| DLC | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | Early | Fixture | 3,407 | 74% | 0.6 | 13 | \$554 | 36% | 3.4 |
| DLC | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Misc. | High Bay Lighting | New | Fixture | 879 | 25% | 0.05 | 13 | \$75 | 29% | 2.2 |
| DLC | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | New | Fixture | 2,590 | 74% | 0.5 | 13 | \$86 | 36% | 16.6 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|---|---------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Misc. | High Bay Lighting | ROB | Fixture | 1,157 | 25% | 0.07 | 13 | \$75 | 29% | 2.8 |
| DLC | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | ROB | Fixture | 3,407 | 74% | 0.6 | 13 | \$86 | 36% | 21.9 |
| DLC | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Misc. | High Bay Lighting | Early | Fixture | 302 | 0.2% | 0.00 | 13 | \$835 | 38% | 0.0 |
| DLC | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Misc. | High Bay Lighting | Early | Fixture | 650 | 54% | 0.09 | 13 | \$835 | 38% | 0.3 |
| DLC | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Misc. | High Bay Lighting | New | Fixture | 494 | 54% | 0.06 | 13 | \$382 | 38% | 0.5 |
| DLC | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Misc. | High Bay Lighting | ROB | Fixture | 650 | 54% | 0.09 | 13 | \$382 | 38% | 0.7 |
| DLC | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Misc. | High Bay Lighting | Early | Fixture | 1,474 | 18% | 0.07 | 13 | \$487 | 25% | 0.4 |
| DLC | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Misc. | High Bay Lighting | Early | Fixture | 1,541 | 22% | 0.08 | 13 | \$487 | 28% | 0.5 |
| DLC | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | Early | Fixture | 3,407 | 65% | 0.5 | 13 | \$487 | 36% | 3.4 |
| DLC | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Misc. | High Bay Lighting | New | Fixture | 1,120 | 18% | 0.05 | 13 | \$16 | 25% | 9.3 |
| DLC | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | New | Fixture | 2,590 | 65% | 0.4 | 13 | \$18 | 36% | 67.4 |
| DLC | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Misc. | High Bay Lighting | ROB | Fixture | 1,474 | 18% | 0.07 | 13 | \$16 | 25% | 12.2 |
| DLC | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | ROB | Fixture | 3,407 | 65% | 0.5 | 13 | \$18 | 36% | 88.7 |
| DLC | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Misc. | High Bay Lighting | Early | Fixture | 1,474 | 1.5% | 0.01 | 13 | \$557 | 19% | 0.0 |
| DLC | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Misc. | High Bay Lighting | Early | Fixture | 1,517 | 4.3% | 0.02 | 13 | \$557 | 19% | 0.1 |
| DLC | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | Early | Fixture | 3,407 | 57% | 0.5 | 13 | \$557 | 19% | 2.6 |
| DLC | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Misc. | High Bay Lighting | New | Fixture | 1,120 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| DLC | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | New | Fixture | 2,590 | 57% | 0.4 | 13 | \$88 | 19% | 12.5 |
| DLC | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Misc. | High Bay Lighting | ROB | Fixture | 1,474 | 1.5% | 0.01 | 13 | \$86 | 19% | 0.2 |
| DLC | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | ROB | Fixture | 3,407 | 57% | 0.5 | 13 | \$88 | 19% | 16.4 |
| DLC | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Misc. | High Bay Lighting | Early | Fixture | 626 | 29% | 0.03 | 13 | \$492 | 71% | 0.3 |
| DLC | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Misc. | High Bay Lighting | Early | Fixture | 523 | 15% | 0.01 | 13 | \$492 | 95% | 0.1 |
| DLC | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Misc. | High Bay Lighting | Early | Fixture | 777 | 43% | 0.06 | 13 | \$492 | 95% | 0.5 |
| DLC | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Misc. | High Bay Lighting | Early | Fixture | 721 | 38% | 0.05 | 13 | \$492 | 95% | 0.4 |
| DLC | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Misc. | High Bay Lighting | New | Fixture | 398 | 15% | 0.01 | 13 | \$25 | 95% | 1.6 |
| DLC | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Misc. | High Bay Lighting | New | Fixture | 591 | 43% | 0.04 | 13 | \$51 | 95% | 3.3 |
| DLC | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Misc. | High Bay Lighting | ROB | Fixture | 523 | 15% | 0.01 | 13 | \$25 | 95% | 2.1 |
| DLC | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Misc. | High Bay Lighting | ROB | Fixture | 777 | 43% | 0.06 | 13 | \$51 | 95% | 4.4 |
| DLC | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Misc. | High Bay Lighting | Early | lamp | 104 | 16% | 0.00 | 10 | \$7.7 | 99% | 1.2 |
| DLC | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Misc. | High Bay Lighting | New | lamp | 62 | 13% | 0.00 | 10 | \$1.6 | 91% | 2.6 |
| DLC | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Misc. | High Bay Lighting | ROB | lamp | 99 | 13% | 0.00 | 10 | \$1.6 | 91% | 4.1 |
| DLC | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Misc. | High Bay Lighting | Early | Fixture | 3,487 | 23% | 0.2 | 13 | \$613 | 5% | 1.0 |
| DLC | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Misc. | High Bay Lighting | Early | Fixture | 2,739 | 1.6% | 0.01 | 13 | \$613 | 28% | 0.1 |
| DLC | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | Early | Fixture | 6,815 | 60% | 1.0 | 13 | \$613 | 18% | 5.0 |
| DLC | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Misc. | High Bay Lighting | New | Fixture | 2,650 | 23% | 0.1 | 13 | \$96 | 5% | 4.6 |
| DLC | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Misc. | High Bay Lighting | ROB | Fixture | 3,487 | 23% | 0.2 | 13 | \$96 | 5% | 6.1 |
| DLC | 85W Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Misc. | High Bay Lighting | Early | Fixture | 3,487 | 92% | 0.8 | 13 | \$1,916 | 95% | 1.2 |
| DLC | 85W Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | Early | Fixture | 6,815 | 96% | 1.6 | 13 | \$1,916 | 95% | 2.5 |
| DLC | 85W Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Misc. | High Bay Lighting | New | Fixture | 2,650 | 92% | 0.6 | 13 | \$1,468 | 95% | 1.2 |
| DLC | 85W Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | New | Fixture | 5,179 | 96% | 1.2 | 13 | \$1,149 | 95% | 3.2 |
| DLC | 85W Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Misc. | High Bay Lighting | ROB | Fixture | 3,487 | 92% | 0.8 | 13 | \$1,468 | 95% | 1.6 |
| DLC | 85W Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | ROB | Fixture | 6,815 | 96% | 1.6 | 13 | \$1,149 | 95% | 4.2 |
| DLC | Auto Off Time Switch | Lighting w/ No Controls | Misc. | High Bay Lighting | Existing | building | 2,524 | 24% | 0.2 | 8 | \$997 | 13% | 0.3 |
| DLC | Auto Off Time Switch | Lighting w/ No Controls | Misc. | High Bay Lighting | New | building | 2,524 | 6.9% | 0.07 | 8 | \$997 | 0% | 0.1 |
| DLC | Central Lighting Control System | Lighting w/ No Controls | Misc. | High Bay Lighting | Existing | building | 2,524 | 38% | 0.4 | 8 | \$997 | 13% | 0.5 |
| DLC | Central Lighting Control System | Lighting w/ No Controls | Misc. | High Bay Lighting | New | building | 2,524 | 14% | 0.1 | 8 | \$997 | 13% | 0.2 |
| DLC | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Misc. | High Bay Lighting | New | building | 2,524 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.0 |
| DLC | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Misc. | High Bay Lighting | New | building | 2,524 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |
| DLC | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Misc. | High Bay Lighting | New | building | 2,524 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| DLC | Indoor Daylight Sensors | Lighting w/ No Controls | Misc. | High Bay Lighting | Existing | building | 2,524 | 28% | 0.3 | 8 | \$4,908 | 13% | 0.1 |
| DLC | Indoor Daylight Sensors | Lighting w/ No Controls | Misc. | High Bay Lighting | New | building | 2,524 | 4.0% | 0.04 | 8 | \$4,908 | 0% | 0.0 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 365 W High Pressure Sodium Fixture | Misc. | High Bay Lighting | Early | Fixture | 1,157 | 67% | 0.2 | 13 | \$960 | 95% | 0.6 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 1075 W Mercury Vapor Fixture | Misc. | High Bay Lighting | Early | Fixture | 3,407 | 89% | 0.7 | 13 | \$960 | 95% | 2.3 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 295 W Metal Halide Fixture | Misc. | High Bay Lighting | Early | Fixture | 935 | 59% | 0.1 | 13 | \$960 | 95% | 0.4 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 365 W High Pressure Sodium Fixture | Misc. | High Bay Lighting | New | Fixture | 879 | 67% | 0.1 | 13 | \$480 | 95% | 0.9 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 1075 W Mercury Vapor Fixture | Misc. | High Bay Lighting | New | Fixture | 2,590 | 89% | 0.6 | 13 | \$491 | 95% | 3.5 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 295 W Metal Halide Fixture | Misc. | High Bay Lighting | New | Fixture | 711 | 59% | 0.1 | 13 | \$406 | 95% | 0.8 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 365 W High Pressure Sodium Fixture | Misc. | High Bay Lighting | ROB | Fixture | 1,157 | 67% | 0.2 | 13 | \$480 | 95% | 1.2 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 1075 W Mercury Vapor Fixture | Misc. | High Bay Lighting | ROB | Fixture | 3,407 | 89% | 0.7 | 13 | \$491 | 95% | 4.6 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 295 W Metal Halide Fixture | Misc. | High Bay Lighting | ROB | Fixture | 935 | 59% | 0.1 | 13 | \$406 | 95% | 1.0 |
| DLC | Occupancy Sensor | Lighting w/ No Controls | Misc. | High Bay Lighting | Existing | building | 2,524 | 24% | 0.2 | 8 | \$1,503 | 12% | 0.2 |
| DLC | Occupancy Sensor | Lighting w/ No Controls | Misc. | High Bay Lighting | New | building | 2,524 | 6.9% | 0.07 | 8 | \$1,503 | 0% | 0.1 |
| DLC | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Misc. | High Bay Lighting | Existing | building | 2,524 | 28% | 0.3 | 8 | \$4,908 | 12% | 0.1 |
| DLC | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Misc. | High Bay Lighting | New | building | 2,524 | 4.0% | 0.04 | 8 | \$4,908 | 0% | 0.0 |
| DLC | Time Clock Control | Lighting w/ No Controls | Misc. | High Bay Lighting | Existing | building | 2,524 | 28% | 0.3 | 8 | \$997 | 13% | 0.4 |
| DLC | Time Clock Control | Lighting w/ No Controls | Misc. | High Bay Lighting | New | building | 2,524 | 4.0% | 0.04 | 8 | \$997 | 0% | 0.1 |
| DLC | Auto Off Time Switch | Lighting w/ No Controls | Misc. | Lin. Fluor. Lighting | Existing | building | 16,738 | 24% | 0.2 | 8 | \$997 | 13% | 1.3 |
| DLC | Auto Off Time Switch | Lighting w/ No Controls | Misc. | Lin. Fluor. Lighting | New | building | 16,738 | 7.0% | 0.07 | 8 | \$997 | 0% | 0.4 |
| DLC | Central Lighting Control System | Lighting w/ No Controls | Misc. | Lin. Fluor. Lighting | Existing | building | 16,738 | 38% | 0.4 | 8 | \$997 | 12% | 2.1 |
| DLC | Central Lighting Control System | Lighting w/ No Controls | Misc. | Lin. Fluor. Lighting | New | building | 16,738 | 14% | 0.1 | 8 | \$997 | 12% | 0.8 |
| DLC | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Misc. | Lin. Fluor. Lighting | New | building | 16,738 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.0 |
| DLC | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Misc. | Lin. Fluor. Lighting | New | building | 16,738 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|--|---------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Misc. | Lin. Fluor. Lighting | New | building | 16,738 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| DLC | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Misc. | Lin. Fluor. Lighting | Early | Lamp | 208 | 38% | 0.01 | 10 | \$7.3 | 94% | 5.5 |
| DLC | Indoor Daylight Sensors | Lighting w/ No Controls | Misc. | Lin. Fluor. Lighting | Existing | building | 16,738 | 28% | 0.3 | 8 | \$4,908 | 13% | 0.3 |
| DLC | Indoor Daylight Sensors | Lighting w/ No Controls | Misc. | Lin. Fluor. Lighting | New | building | 16,738 | 4.1% | 0.04 | 8 | \$4,908 | 0% | 0.0 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 28W T8 Lamp, Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | Early | Lamp | 73 | 19% | 0.00 | 15 | \$35 | 94% | 0.3 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 40W T12 Lamp, Magnetic Ballast | Misc. | Lin. Fluor. Lighting | Early | Lamp | 161 | 63% | 0.03 | 15 | \$35 | 94% | 2.4 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 28W T5 Lamp, Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | Early | Lamp | 90 | 34% | 0.01 | 15 | \$35 | 94% | 0.7 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 32W T8 Lamp, Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | Early | Lamp | 87 | 32% | 0.01 | 15 | \$35 | 94% | 0.7 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 28W T8 Lamp, Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | New | Lamp | 56 | 19% | 0.00 | 15 | \$28 | 94% | 0.3 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 32W T8 Lamp, Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | New | Lamp | 66 | 32% | 0.01 | 15 | \$29 | 94% | 0.6 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 28W T5 Lamp, Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | New | Lamp | 68 | 34% | 0.01 | 15 | \$22 | 94% | 0.9 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 32W T8 Lamp, Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | New | Lamp | 66 | 32% | 0.01 | 15 | \$29 | 94% | 0.6 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 28W T8 Lamp, Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | ROB | Lamp | 73 | 19% | 0.00 | 15 | \$28 | 94% | 0.4 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 32W T8 Lamp, Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | ROB | Lamp | 87 | 32% | 0.01 | 15 | \$29 | 94% | 0.8 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 28W T5 Lamp, Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | ROB | Lamp | 90 | 34% | 0.01 | 15 | \$22 | 94% | 1.2 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 32W T8 Lamp, Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | ROB | Lamp | 87 | 32% | 0.01 | 15 | \$29 | 94% | 0.8 |
| DLC | Occupancy Sensor | Lighting w/ No Controls | Misc. | Lin. Fluor. Lighting | Existing | building | 16,738 | 24% | 0.2 | 8 | \$1,503 | 13% | 0.9 |
| DLC | Occupancy Sensor | Lighting w/ No Controls | Misc. | Lin. Fluor. Lighting | New | building | 16,738 | 7.0% | 0.07 | 8 | \$1,503 | 0% | 0.3 |
| DLC | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Misc. | Lin. Fluor. Lighting | Existing | building | 16,738 | 28% | 0.3 | 8 | \$4,908 | 12% | 0.3 |
| DLC | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Misc. | Lin. Fluor. Lighting | New | building | 16,738 | 4.1% | 0.04 | 8 | \$4,908 | 0% | 0.0 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 40W T12 w/ Magnetic Ballast | Misc. | Lin. Fluor. Lighting | Early | Lamp | 208 | 54% | 0.02 | 10 | \$9.1 | 94% | 6.4 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | Early | Lamp | 133 | 28% | 0.01 | 10 | \$9.1 | 24% | 2.1 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | Early | Lamp | 129 | 26% | 0.01 | 10 | \$9.1 | 94% | 1.9 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | New | Lamp | 98 | 26% | 0.00 | 10 | \$2.5 | 94% | 5.2 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | New | Lamp | 98 | 26% | 0.00 | 10 | \$2.5 | 94% | 5.2 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | New | Lamp | 101 | 28% | 0.00 | 10 | \$2.5 | 24% | 5.8 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | New | Lamp | 98 | 26% | 0.00 | 10 | \$2.5 | 94% | 5.2 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | ROB | Lamp | 129 | 26% | 0.01 | 10 | \$2.5 | 94% | 6.8 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | ROB | Lamp | 129 | 26% | 0.01 | 10 | \$2.5 | 94% | 6.8 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | ROB | Lamp | 133 | 28% | 0.01 | 10 | \$2.5 | 24% | 7.6 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | ROB | Lamp | 129 | 26% | 0.01 | 10 | \$2.5 | 94% | 6.8 |
| DLC | T8 Lamp (any length) Electronic Ballast | Standard T12 lamp (any length) | Misc. | Lin. Fluor. Lighting | Early | Lamp | 245 | 42% | 0.02 | 10 | \$14 | 94% | 3.8 |
| DLC | Time Clock Control | Lighting w/ No Controls | Misc. | Lin. Fluor. Lighting | Existing | building | 16,738 | 28% | 0.3 | 8 | \$997 | 14% | 1.6 |
| DLC | Time Clock Control | Lighting w/ No Controls | Misc. | Lin. Fluor. Lighting | New | building | 16,738 | 4.1% | 0.04 | 8 | \$997 | 0% | 0.2 |
| DLC | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | Early | motor | 3,361 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| DLC | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | Early | motor | 3,361 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| DLC | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | Early | motor | 3,361 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| DLC | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | Early | motor | 3,361 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| DLC | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | Early | motor | 3,361 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| DLC | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | New | motor | 3,259 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| DLC | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | New | motor | 3,259 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| DLC | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | New | motor | 3,259 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| DLC | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | New | motor | 3,259 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| DLC | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 3,259 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| DLC | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 3,259 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| DLC | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 3,259 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| DLC | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 3,259 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| DLC | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 3,259 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| DLC | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | Early | motor | 4,956 | 3.0% | 0.02 | 15 | \$402 | 76% | 0.3 |
| DLC | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | Early | motor | 4,956 | 3.0% | 0.02 | 15 | \$402 | 76% | 0.3 |
| DLC | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | Early | motor | 4,956 | 3.0% | 0.02 | 15 | \$402 | 76% | 0.3 |
| DLC | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | Early | motor | 4,956 | 3.0% | 0.02 | 15 | \$402 | 76% | 0.3 |
| DLC | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | Early | motor | 4,956 | 3.0% | 0.02 | 15 | \$402 | 76% | 0.3 |
| DLC | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | New | motor | 4,832 | 0.5% | 0.00 | 15 | \$60 | 76% | 0.3 |
| DLC | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | New | motor | 4,832 | 0.5% | 0.00 | 15 | \$60 | 76% | 0.3 |
| DLC | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | New | motor | 4,832 | 0.5% | 0.00 | 15 | \$60 | 76% | 0.3 |
| DLC | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | New | motor | 4,832 | 0.5% | 0.00 | 15 | \$60 | 76% | 0.3 |
| DLC | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | New | motor | 4,832 | 0.5% | 0.00 | 15 | \$60 | 76% | 0.3 |
| DLC | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 4,832 | 0.5% | 0.00 | 15 | \$60 | 76% | 0.3 |
| DLC | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 4,832 | 0.5% | 0.00 | 15 | \$60 | 76% | 0.3 |
| DLC | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 4,832 | 0.5% | 0.00 | 15 | \$60 | 76% | 0.3 |
| DLC | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 4,832 | 0.5% | 0.00 | 15 | \$60 | 76% | 0.3 |
| DLC | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 4,832 | 0.5% | 0.00 | 15 | \$60 | 76% | 0.3 |
| DLC | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 4,832 | 0.5% | 0.00 | 15 | \$60 | 76% | 0.3 |
| DLC | 100 HP Motor, Ultra-PE | 100 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | Early | motor | 295,570 | 1.7% | 0.6 | 15 | \$5,100 | 47% | 0.7 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|---|---------|---------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | New | motor | 219,972 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.4 |
| DLC | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | New | motor | 219,972 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.4 |
| DLC | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | New | motor | 219,972 | 0.4% | 0.1 | 15 | \$554 | 61% | 1.3 |
| DLC | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 219,972 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.4 |
| DLC | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 219,972 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.4 |
| DLC | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 219,972 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.4 |
| DLC | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 219,972 | 0.4% | 0.1 | 15 | \$554 | 61% | 1.3 |
| DLC | Downsizing motor during retrofit | Larger hp standard motor | Misc. | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 25.0 |
| DLC | Downsizing motor during retrofit | Larger hp standard motor | Misc. | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 25.3 |
| DLC | Downsizing motor during retrofit | Larger hp standard motor | Misc. | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 25.8 |
| DLC | Downsizing motor during retrofit | Larger hp standard motor | Misc. | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 26.3 |
| DLC | Downsizing motor during retrofit | Larger hp standard motor | Misc. | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 27.2 |
| DLC | Downsizing motor during retrofit | Larger hp standard motor | Misc. | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 24.8 |
| DLC | Downsizing motor during retrofit | Larger hp standard motor | Misc. | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 25.6 |
| DLC | Downsizing motor during retrofit | Larger hp standard motor | Misc. | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 26.0 |
| DLC | Downsizing motor during retrofit | Larger hp standard motor | Misc. | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 26.6 |
| DLC | Downsizing motor during retrofit | Larger hp standard motor | Misc. | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 27.0 |
| DLC | Escalator Motor Controller | Constant power control | Misc. | Motors | New | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 45% | 6.9 |
| DLC | Escalator Motor Controller | Constant power control | Misc. | Motors | ROB | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 45% | 6.9 |
| DLC | Variable Speed Drive Control, 15HP | Existing Motors w/out VSD Drive | Misc. | Motors | Early | motor | 45,928 | 70% | 4.7 | 15 | \$731 | 86% | 32.8 |
| DLC | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Misc. | Motors | New | motor | 44,940 | 72% | 4.7 | 15 | \$731 | 86% | 32.8 |
| DLC | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Misc. | Motors | ROB | motor | 44,940 | 71% | 4.7 | 15 | \$731 | 86% | 32.8 |
| DLC | Variable Speed Drive Control, 40HP | Existing Motors w/out VSD Drive | Misc. | Motors | Early | motor | 119,841 | 71% | 12.5 | 15 | \$4,666 | 86% | 13.5 |
| DLC | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Misc. | Motors | New | motor | 118,440 | 71% | 12.5 | 15 | \$4,666 | 86% | 13.5 |
| DLC | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Misc. | Motors | ROB | motor | 118,440 | 71% | 12.5 | 15 | \$4,666 | 86% | 13.5 |
| DLC | Variable Speed Drive Control, 5HP | Existing Motors w/out VFD Drive | Misc. | Motors | Early | motor | 15,922 | 71% | 1.7 | 15 | \$2,243 | 86% | 3.8 |
| DLC | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Misc. | Motors | New | motor | 15,566 | 72% | 1.6 | 15 | \$2,243 | 86% | 3.7 |
| DLC | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Misc. | Motors | ROB | motor | 15,566 | 72% | 1.6 | 15 | \$2,243 | 86% | 3.7 |
| DLC | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Misc. | Motors | Early | motor | 4,943 | 23% | 0.1 | 15 | \$268 | 13% | 3.0 |
| DLC | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Misc. | Motors | New | motor | 4,943 | 23% | 0.1 | 15 | \$268 | 13% | 3.0 |
| DLC | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Misc. | Motors | ROB | motor | 4,943 | 23% | 0.1 | 15 | \$268 | 13% | 3.0 |
| DLC | VFD on Chilled Water Pump | Motor w/out VFD Drive | Misc. | Motors | Early | motor | 16,590 | 55% | 1.2 | 15 | \$2,903 | 86% | 2.3 |
| DLC | VFD on Chilled Water Pump | Motor w/out VFD Drive | Misc. | Motors | New | motor | 16,280 | 55% | 1.2 | 15 | \$2,843 | 86% | 2.3 |
| DLC | VFD on Chilled Water Pump | Motor w/out VFD Drive | Misc. | Motors | ROB | motor | 16,280 | 55% | 1.2 | 15 | \$2,843 | 86% | 2.3 |
| DLC | VFD on Condenser Water Pump | Motor w/out VFD Drive | Misc. | Motors | Early | motor | 18,641 | 32% | 0.8 | 15 | \$2,903 | 86% | 1.5 |
| DLC | VFD on Condenser Water Pump | Motor w/out VFD Drive | Misc. | Motors | New | motor | 18,292 | 33% | 0.8 | 15 | \$2,843 | 86% | 1.6 |
| DLC | VFD on Condenser Water Pump | Motor w/out VFD Drive | Misc. | Motors | ROB | motor | 18,292 | 33% | 0.8 | 15 | \$2,843 | 86% | 1.6 |
| DLC | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Misc. | Motors | Early | motor | 27,718 | 56% | 2.0 | 15 | \$2,903 | 86% | 3.9 |
| DLC | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Misc. | Motors | New | motor | 27,199 | 57% | 2.0 | 15 | \$2,843 | 86% | 4.0 |
| DLC | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Misc. | Motors | ROB | motor | 27,199 | 57% | 2.0 | 15 | \$2,843 | 86% | 4.0 |
| DLC | VFD on HVAC Fan | Motor w/out VFD | Misc. | Motors | Early | motor | 18,724 | 70% | 1.9 | 15 | \$2,903 | 86% | 3.4 |
| DLC | VFD on HVAC Fan | Motor w/out VFD | Misc. | Motors | New | motor | 18,373 | 71% | 1.9 | 15 | \$2,843 | 86% | 3.4 |
| DLC | VFD on HVAC Fan | Motor w/out VFD | Misc. | Motors | ROB | motor | 18,373 | 71% | 1.9 | 15 | \$2,843 | 86% | 3.4 |
| DLC | Variable Speed Drives on Process Equipment | Constant speed control | Misc. | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 9% | 11.5 |
| DLC | Variable Speed Drives on Process Equipment | Constant speed control | Misc. | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 9% | 11.5 |
| DLC | 9W Exit Sign Retrofit: CFL replacing Incandescent | One 23W Single Sided Incandescent Exit Sign | Misc. | Other Int. Lighting | Early | exit sign | 136 | 42% | 0.01 | 15 | \$48 | 22% | 0.9 |
| DLC | Auto Off Time Switch | Lighting w/ No Controls | Misc. | Other Int. Lighting | Existing | building | 15,237 | 24% | 0.2 | 8 | \$997 | 13% | 1.2 |
| DLC | Auto Off Time Switch | Lighting w/ No Controls | Misc. | Other Int. Lighting | New | building | 15,237 | 7.0% | 0.07 | 8 | \$997 | 0% | 0.4 |
| DLC | Central Lighting Control System | Lighting w/ No Controls | Misc. | Other Int. Lighting | Existing | building | 15,237 | 38% | 0.4 | 8 | \$997 | 13% | 1.9 |
| DLC | Central Lighting Control System | Lighting w/ No Controls | Misc. | Other Int. Lighting | New | building | 15,237 | 14% | 0.1 | 8 | \$997 | 13% | 0.7 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 40W Incandescent Bulb | Misc. | Other Int. Lighting | Early | lamp | 169 | 87% | 0.04 | 9 | \$30 | 14% | 2.5 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Misc. | Other Int. Lighting | Early | lamp | 121 | 81% | 0.02 | 9 | \$30 | 11% | 1.7 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Misc. | Other Int. Lighting | New | lamp | 92 | 81% | 0.02 | 9 | \$21 | 14% | 1.8 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Misc. | Other Int. Lighting | New | lamp | 92 | 81% | 0.02 | 9 | \$23 | 14% | 1.7 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Misc. | Other Int. Lighting | New | lamp | 92 | 81% | 0.02 | 9 | \$22 | 11% | 1.7 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Misc. | Other Int. Lighting | ROB | lamp | 121 | 81% | 0.02 | 9 | \$21 | 14% | 2.3 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Misc. | Other Int. Lighting | ROB | lamp | 121 | 81% | 0.02 | 9 | \$23 | 14% | 2.2 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Misc. | Other Int. Lighting | ROB | lamp | 121 | 81% | 0.02 | 9 | \$22 | 11% | 2.3 |
| DLC | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Misc. | Other Int. Lighting | Early | lamp | 169 | 75% | 0.03 | 4 | \$73 | 24% | 0.4 |
| DLC | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Misc. | Other Int. Lighting | New | fixture | 184 | 65% | 0.03 | 13 | \$29 | 28% | 3.1 |
| DLC | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Misc. | Other Int. Lighting | New | lamp | 92 | 65% | 0.01 | 4 | \$29 | 28% | 0.5 |
| DLC | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Misc. | Other Int. Lighting | ROB | fixture | 242 | 65% | 0.04 | 13 | \$29 | 24% | 4.1 |
| DLC | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Misc. | Other Int. Lighting | ROB | lamp | 121 | 65% | 0.02 | 4 | \$29 | 24% | 0.6 |
| DLC | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Misc. | Other Int. Lighting | Early | lamp | 169 | 75% | 0.03 | 4 | \$3.2 | 24% | 8.9 |
| DLC | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Misc. | Other Int. Lighting | New | lamp | 92 | 65% | 0.01 | 4 | \$1.8 | 24% | 7.6 |
| DLC | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Misc. | Other Int. Lighting | ROB | lamp | 121 | 65% | 0.02 | 4 | \$1.8 | 24% | 10.0 |
| DLC | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Misc. | Other Int. Lighting | ROB | lamp | 121 | 65% | 0.02 | 4 | \$1.8 | 24% | 10.0 |
| DLC | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Misc. | Other Int. Lighting | New | building | 15,237 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.0 |
| DLC | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Misc. | Other Int. Lighting | New | building | 15,237 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |
| DLC | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Misc. | Other Int. Lighting | New | building | 15,237 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| DLC | Indoor Daylight Sensors | Lighting w/ No Controls | Misc. | Other Int. Lighting | Existing | building | 15,237 | 28% | 0.3 | 8 | \$4,908 | 13% | 0.3 |
| DLC | Indoor Daylight Sensors | Lighting w/ No Controls | Misc. | Other Int. Lighting | New | building | 15,237 | 4.1% | 0.04 | 8 | \$4,908 | 0% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|---|---------|---------------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | LED Exit Signs Single-sided (5W) | Existing Single-Sided Exit Signs (Average: 16 W) | Misc. | Other Int. Lighting | Early | sign | 88 | 78% | 0.01 | 15 | \$48 | 16% | 1.1 |
| DLC | LED Exit Signs Single-sided (5W) | One 9W Single-Sided CFL Exit Sign | Misc. | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 2.2 |
| DLC | LED Exit Signs Single-sided (5W) | One 9W Single-Sided CFL Exit Sign | Misc. | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 2.2 |
| DLC | LED Task Lighting/Screw-In (10W) | 1 15W CFL bulb | Misc. | Other Int. Lighting | Early | lamp | 30 | 33% | 0.00 | 12 | \$9.6 | 24% | 0.7 |
| DLC | LED Task Lighting/Screw-In (10W) | 1 60W Incandescent Bulb | Misc. | Other Int. Lighting | Early | lamp | 119 | 83% | 0.02 | 12 | \$9.6 | 24% | 6.7 |
| DLC | LED Task Lighting/Screw-In (10W) | 1 43W EISA Compliant bulb | Misc. | Other Int. Lighting | New | lamp | 65 | 77% | 0.01 | 12 | \$7.9 | 24% | 4.1 |
| DLC | LED Task Lighting/Screw-In (10W) | 1 43W EISA Compliant bulb | Misc. | Other Int. Lighting | New | lamp | 65 | 77% | 0.01 | 12 | \$7.9 | 24% | 4.1 |
| DLC | LED Task Lighting/Screw-In (10W) | 1 43W EISA Compliant bulb | Misc. | Other Int. Lighting | ROB | lamp | 86 | 77% | 0.01 | 12 | \$7.9 | 24% | 5.4 |
| DLC | LED Task Lighting/Screw-In (10W) | 1 43W EISA Compliant bulb | Misc. | Other Int. Lighting | ROB | lamp | 86 | 77% | 0.01 | 12 | \$7.9 | 24% | 5.4 |
| DLC | Occupancy Sensor | Lighting w/ No Controls | Misc. | Other Int. Lighting | Existing | building | 15,237 | 24% | 0.2 | 8 | \$1,503 | 12% | 0.8 |
| DLC | Occupancy Sensor | Lighting w/ No Controls | Misc. | Other Int. Lighting | New | building | 15,237 | 7.0% | 0.07 | 8 | \$1,503 | 0% | 0.2 |
| DLC | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Misc. | Other Int. Lighting | Existing | building | 15,237 | 28% | 0.3 | 8 | \$4,908 | 12% | 0.3 |
| DLC | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Misc. | Other Int. Lighting | New | building | 15,237 | 4.1% | 0.04 | 8 | \$4,908 | 0% | 0.0 |
| DLC | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Misc. | Other Int. Lighting | Early | exit sign | 136 | 100% | 0.02 | 15 | \$173 | 26% | 0.6 |
| DLC | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Misc. | Other Int. Lighting | New | exit sign | 78 | 100% | 0.01 | 15 | \$148 | 31% | 0.4 |
| DLC | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Misc. | Other Int. Lighting | ROB | exit sign | 78 | 100% | 0.01 | 15 | \$148 | 26% | 0.4 |
| DLC | Time Clock Control | Lighting w/ No Controls | Misc. | Other Int. Lighting | Existing | building | 15,237 | 28% | 0.3 | 8 | \$997 | 13% | 1.4 |
| DLC | Time Clock Control | Lighting w/ No Controls | Misc. | Other Int. Lighting | New | building | 15,237 | 4.1% | 0.04 | 8 | \$997 | 0% | 0.2 |
| DLC | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Misc. | Plug Load | Existing | building | 1,324 | 46% | 0.5 | 5 | \$189 | 4% | 1.5 |
| DLC | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Misc. | Plug Load | New | building | 1,324 | 46% | 0.5 | 5 | \$189 | 4% | 1.5 |
| DLC | Data Center - Server/Storage Consolidation | No Consolidation | Misc. | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| DLC | Data Center - Server/Storage Consolidation | No Consolidation | Misc. | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| DLC | Data Center - Server/Storage Virtualization | No Virtualization | Misc. | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| DLC | Data Center - Server/Storage Virtualization | No Virtualization | Misc. | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| DLC | Energy Star - Scanners | Std Scanner | Misc. | Plug Load | New | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| DLC | Energy Star - Scanners | Std Scanner | Misc. | Plug Load | ROB | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| DLC | Energy Star Dishwasher | Existing Dishwasher units | Misc. | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,580 | 6% | 1.1 |
| DLC | Energy Star Dishwasher | Standard Dishwasher unit | Misc. | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 6% | 3.5 |
| DLC | Energy Star Dishwasher | Standard Dishwasher unit | Misc. | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 6% | 3.5 |
| DLC | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Misc. | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 17% | 0.2 |
| DLC | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Misc. | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.1 |
| DLC | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Misc. | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.1 |
| DLC | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Misc. | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 64% | 0.7 |
| DLC | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Misc. | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 64% | 1.5 |
| DLC | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Misc. | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 64% | 1.5 |
| DLC | ENERGY STAR® Copiers | 10% Less Efficient Copier | Misc. | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 18% | 0.0 |
| DLC | ENERGY STAR® Copiers | One Conventional Copier | Misc. | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| DLC | ENERGY STAR® Copiers | One Conventional Copier | Misc. | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| DLC | ENERGY STAR® desktop | Standard computer | Misc. | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 69% | 0.1 |
| DLC | ENERGY STAR® desktop | Standard computer | Misc. | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.1 |
| DLC | ENERGY STAR® desktop | Standard computer | Misc. | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.1 |
| DLC | ENERGY STAR® Fax | 10% Less Efficient Fax | Misc. | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 15% | 0.0 |
| DLC | ENERGY STAR® Fax | One Conventional Fax | Misc. | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.1 |
| DLC | ENERGY STAR® Fax | One Conventional Fax | Misc. | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.1 |
| DLC | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Misc. | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 70% | 0.0 |
| DLC | ENERGY STAR® Monitors | One Conventional Monitor | Misc. | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| DLC | ENERGY STAR® Monitors | One Conventional Monitor | Misc. | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| DLC | ENERGY STAR® Printers | 10% Less Efficient Printer | Misc. | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 44% | 0.0 |
| DLC | ENERGY STAR® Printers | One Conventional Printer | Misc. | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| DLC | ENERGY STAR® Printers | One Conventional Printer | Misc. | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| DLC | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Misc. | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 43% | 0.1 |
| DLC | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Misc. | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.8 |
| DLC | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Misc. | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.8 |
| DLC | ENERGY STAR® Televisions | 10% Less Efficient Television | Misc. | Plug Load | Early | Unit | 221 | 38% | 0.02 | 6 | \$672 | 40% | 0.0 |
| DLC | ENERGY STAR® Televisions | One Conventional Television | Misc. | Plug Load | New | Unit | 201 | 32% | 0.01 | 6 | \$206 | 40% | 0.1 |
| DLC | ENERGY STAR® Televisions | One Conventional Television | Misc. | Plug Load | ROB | Unit | 201 | 32% | 0.01 | 6 | \$206 | 40% | 0.1 |
| DLC | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Misc. | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 24% | 0.3 |
| DLC | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Misc. | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.7 |
| DLC | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Misc. | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.7 |
| DLC | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Misc. | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.3 |
| DLC | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Misc. | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.3 |
| DLC | Network PC Power Management | No PC Power Management | Misc. | Plug Load | Existing | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 7.4 |
| DLC | Network PC Power Management | No PC Power Management | Misc. | Plug Load | New | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 7.4 |
| DLC | Smart Strip Plug Outlets | Standard plug strip/outlet | Misc. | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.2 |
| DLC | Smart Strip Plug Outlets | Standard plug strip/outlet | Misc. | Plug Load | Early | Smart Strip | 378 | 26% | 0.01 | 5 | \$21 | 85% | 1.0 |
| DLC | Smart Strip Plug Outlets | Standard plug strip/outlet | Misc. | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| DLC | Smart Strip Plug Outlets | Standard plug strip/outlet | Misc. | Plug Load | New | Smart Strip | 296 | 42% | 0.01 | 5 | \$21 | 85% | 1.2 |
| DLC | Smart Strip Plug Outlets | Standard plug strip/outlet | Misc. | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|--|---------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Smart Strip Plug Outlets | Standard plug strip/outlet | Misc. | Plug Load | ROB | Smart Strip | 296 | 42% | 0.01 | 5 | \$21 | 85% | 1.2 |
| DLC | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Misc. | Plug Load | Existing | building | 1,324 | 46% | 0.5 | 5 | \$180 | 3% | 1.6 |
| DLC | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Misc. | Plug Load | New | building | 1,324 | 46% | 0.5 | 5 | \$180 | 3% | 1.6 |
| DLC | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Misc. | Refrigeration | Existing | building | 926 | 3.6% | 0.04 | 12 | \$70 | 11% | 0.6 |
| DLC | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Misc. | Refrigeration | New | building | 926 | 3.6% | 0.04 | 12 | \$70 | 11% | 0.6 |
| DLC | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Misc. | Refrigeration | Existing | building | 926 | 1.4% | 0.01 | 12 | \$70 | 11% | 0.3 |
| DLC | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Misc. | Refrigeration | New | building | 926 | 1.4% | 0.01 | 12 | \$70 | 11% | 0.3 |
| DLC | Auto Closer on Refrigerator Door | Door w/out Autocloser | Misc. | Refrigeration | Existing | building | 3,497 | 23% | 0.2 | 8 | \$642 | 40% | 0.6 |
| DLC | Auto Closer on Refrigerator Door | Door w/out Autocloser | Misc. | Refrigeration | Existing | building | 5,862 | 14% | 0.1 | 8 | \$700 | 40% | 0.5 |
| DLC | Auto Closer on Refrigerator Door | Door w/out Autocloser | Misc. | Refrigeration | New | building | 3,497 | 23% | 0.2 | 8 | \$642 | 40% | 0.6 |
| DLC | Auto Closer on Refrigerator Door | Door w/out Autocloser | Misc. | Refrigeration | New | building | 5,862 | 14% | 0.1 | 8 | \$700 | 40% | 0.5 |
| DLC | Demand Hot Gas Defrost | Base Refrigeration System | Misc. | Refrigeration | Existing | measure | 926 | 3.0% | 0.03 | 10 | \$1,408 | 0% | 0.0 |
| DLC | Demand Hot Gas Defrost | Base Refrigeration System | Misc. | Refrigeration | New | measure | 926 | 3.0% | 0.03 | 10 | \$1,408 | 0% | 0.0 |
| DLC | Door Gasket- Freezer | Door w/out Gasket | Misc. | Refrigeration | Existing | building | 3,497 | 14% | 0.1 | 4 | \$66 | 29% | 1.7 |
| DLC | Door Gasket- Freezer | Door w/out Gasket | Misc. | Refrigeration | New | building | 3,497 | 7.0% | 0.07 | 4 | \$66 | 29% | 0.9 |
| DLC | Door Gasket- Refrigerator | Door w/out Gasket | Misc. | Refrigeration | Existing | building | 5,862 | 4.4% | 0.04 | 4 | \$97 | 45% | 0.5 |
| DLC | Door Gasket- Refrigerator | Door w/out Gasket | Misc. | Refrigeration | New | building | 5,862 | 4.4% | 0.04 | 4 | \$97 | 45% | 0.5 |
| DLC | eCube | Refrigeration unit w/out eCube | Misc. | Refrigeration | Existing | building | 5,862 | 15% | 0.2 | 15 | \$601 | 57% | 1.1 |
| DLC | eCube | Refrigeration unit w/out eCube | Misc. | Refrigeration | New | building | 5,862 | 15% | 0.2 | 15 | \$601 | 57% | 1.1 |
| DLC | Efficient compressor motor | Base Refrigeration System - Grocery | Misc. | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.3 |
| DLC | Efficient compressor motor | Base Refrigeration System - Grocery | Misc. | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.3 |
| DLC | Efficient compressor motor | Base Refrigeration System - Grocery | Misc. | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.3 |
| DLC | Efficient compressor motor | Base Refrigeration System - Grocery | Misc. | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.3 |
| DLC | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Misc. | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.6 |
| DLC | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Misc. | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| DLC | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Misc. | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| DLC | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Misc. | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.3 |
| DLC | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Misc. | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.8 |
| DLC | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Misc. | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.8 |
| DLC | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Misc. | Refrigeration | Existing | building | 5,862 | 1.7% | 0.02 | 10 | \$369 | 77% | 0.1 |
| DLC | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Misc. | Refrigeration | New | building | 5,862 | 1.7% | 0.02 | 10 | \$369 | 77% | 0.1 |
| DLC | Floating head pressure controller | System w/out FHPC | Misc. | Refrigeration | Existing | building | 3,497 | 6.5% | 0.03 | 15 | \$8,682 | 41% | 0.0 |
| DLC | Floating head pressure controller | System w/out FHPC | Misc. | Refrigeration | Existing | building | 926 | 11% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| DLC | Floating head pressure controller | System w/out FHPC | Misc. | Refrigeration | Existing | building | 5,862 | 1.3% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| DLC | Floating head pressure controller | System w/out FHPC | Misc. | Refrigeration | New | building | 3,497 | 6.5% | 0.03 | 15 | \$8,682 | 41% | 0.0 |
| DLC | Floating head pressure controller | System w/out FHPC | Misc. | Refrigeration | New | building | 926 | 11% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| DLC | Floating head pressure controller | System w/out FHPC | Misc. | Refrigeration | New | building | 5,862 | 1.3% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| DLC | High Efficiency Commercial Freezer | Std. Commercial Freezer | Misc. | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 86% | 0.4 |
| DLC | High Efficiency Commercial Freezer | Std. Commercial Freezer | Misc. | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 4.4 |
| DLC | High Efficiency Commercial Freezer | Std. Commercial Freezer | Misc. | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 4.4 |
| DLC | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Misc. | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 2% | 0.1 |
| DLC | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Misc. | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$406 | 2% | 1.0 |
| DLC | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Misc. | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$406 | 2% | 1.0 |
| DLC | High Efficiency Ice Maker | Existing Standard Efficiency Ice Maker in Pennsylvania | Misc. | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 73% | 0.2 |
| DLC | High Efficiency Ice Maker | Standard code minimum Ice Maker | Misc. | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| DLC | High Efficiency Ice Maker | Standard code minimum Ice Maker | Misc. | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| DLC | High Efficiency Ice Making Head | Standard Ice Making Head | Misc. | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 4.1 |
| DLC | High Efficiency Ice Making Head | Standard Ice Making Head | Misc. | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 4.1 |
| DLC | High R-Value Glass Doors | Base Refrigeration System - Grocery | Misc. | Refrigeration | Existing | building | 926 | 0.7% | 0.01 | 10 | \$16 | 0% | 0.5 |
| DLC | High R-Value Glass Doors | Base Refrigeration System - Grocery | Misc. | Refrigeration | New | building | 926 | 0.7% | 0.01 | 10 | \$16 | 0% | 0.5 |
| DLC | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Misc. | Refrigeration | Early | Fixture | 373 | 56% | 0.02 | 8 | \$448 | 47% | 0.2 |
| DLC | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Misc. | Refrigeration | New | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 47% | 0.3 |
| DLC | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Misc. | Refrigeration | ROB | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 47% | 0.3 |
| DLC | No-heat glass doors | Standard low-temp reach-in | Misc. | Refrigeration | Existing | building | 926 | 20% | 0.2 | 10 | \$1,456 | 8% | 0.1 |
| DLC | No-heat glass doors | Standard low-temp reach-in | Misc. | Refrigeration | New | building | 926 | 20% | 0.2 | 10 | \$1,456 | 8% | 0.1 |
| DLC | Quick acting freezer doors | Std. Freezer Doors | Misc. | Refrigeration | Existing | building | 3,497 | 13% | 0.1 | 10 | \$809 | 56% | 0.3 |
| DLC | Quick acting freezer doors | Std. Freezer Doors | Misc. | Refrigeration | New | building | 3,497 | 13% | 0.1 | 10 | \$809 | 56% | 0.3 |
| DLC | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Misc. | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 30% | 0.5 |
| DLC | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Misc. | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.8 |
| DLC | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Misc. | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.8 |
| DLC | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 30% | 1.8 |
| DLC | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 3.3 |
| DLC | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 3.3 |
| DLC | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 30% | 1.9 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|---|---------|-----------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 4.4 |
| DLC | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 4.4 |
| DLC | Refrigeration Commissioning | Non-commissioned refrigeration system | Misc. | Refrigeration | Existing | building | 10,284 | 9.5% | 0.10 | 3 | \$3,556 | 85% | 0.0 |
| DLC | Refrigeration Commissioning | Non-commissioned refrigeration system | Misc. | Refrigeration | New | building | 10,284 | 9.5% | 0.10 | 3 | \$3,556 | 85% | 0.0 |
| DLC | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Misc. | Refrigeration | Existing | building | 3,497 | 30% | 0.3 | 4 | \$80 | 22% | 3.0 |
| DLC | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Misc. | Refrigeration | Existing | building | 5,862 | 6.2% | 0.06 | 4 | \$117 | 22% | 0.6 |
| DLC | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Misc. | Refrigeration | New | building | 3,497 | 30% | 0.3 | 4 | \$80 | 22% | 3.0 |
| DLC | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Misc. | Refrigeration | New | building | 5,862 | 6.2% | 0.06 | 4 | \$117 | 22% | 0.6 |
| DLC | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Misc. | Refrigeration | Existing | building | 3,497 | 5.8% | 0.06 | 11 | \$119 | 79% | 1.1 |
| DLC | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Misc. | Refrigeration | New | building | 3,497 | 5.8% | 0.06 | 11 | \$119 | 79% | 1.1 |
| DLC | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Misc. | Refrigeration | Existing | building | 5,862 | 4.5% | 0.05 | 11 | \$119 | 79% | 1.3 |
| DLC | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Misc. | Refrigeration | New | building | 5,862 | 4.5% | 0.05 | 11 | \$119 | 79% | 1.3 |
| DLC | Vertical Night Covers | Display cases w/out night covers-High Temperature | Misc. | Refrigeration | Existing | building | 926 | 0.6% | 0.01 | 5 | \$50 | 9% | 0.1 |
| DLC | Vertical Night Covers | Display cases w/out night covers-High Temperature | Misc. | Refrigeration | New | building | 926 | 0.6% | 0.01 | 5 | \$50 | 9% | 0.1 |
| DLC | VSD Controlled Compressor | Compressor w/out VSD | Misc. | Refrigeration | Early | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.2 |
| DLC | VSD Controlled Compressor | Compressor w/out VSD | Misc. | Refrigeration | New | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.2 |
| DLC | VSD Controlled Compressor | Compressor w/out VSD | Misc. | Refrigeration | ROB | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.2 |
| DLC | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Misc. | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$268 | 35% | 1.0 |
| DLC | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Misc. | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$268 | 35% | 1.0 |
| DLC | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Misc. | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.5 |
| DLC | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Misc. | Refrigeration | New | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 3.3 |
| DLC | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Misc. | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.5 |
| DLC | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Misc. | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 3.3 |
| DLC | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 35% | 2.7 |
| DLC | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 35% | 2.5 |
| DLC | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 5.7 |
| DLC | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 5.4 |
| DLC | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 5.7 |
| DLC | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 5.4 |
| DLC | Adding reflective roof treatment | Std color roof | Misc. | Space Heating | Existing | building | 2,518 | 7.1% | 0.07 | 6 | \$12,324 | 82% | 0.0 |
| DLC | Adding reflective roof treatment | Std color roof | Misc. | Space Heating | New | building | 2,518 | 7.1% | 0.07 | 6 | \$12,324 | 82% | 0.0 |
| DLC | Adding window shade film | No shade film | Misc. | Space Heating | Existing | building | 2,518 | 1.3% | 0.4 | 10 | \$31 | 13% | 8.9 |
| DLC | Adding window shade film | No shade film | Misc. | Space Heating | New | building | 2,518 | 1.3% | 0.4 | 10 | \$31 | 13% | 8.9 |
| DLC | Adding window shade screen | No shade screen | Misc. | Space Heating | Existing | building | 2,518 | 1.1% | 0.01 | 10 | \$12 | 13% | 1.5 |
| DLC | Adding window shade screen | No shade screen | Misc. | Space Heating | New | building | 2,518 | 1.1% | 0.01 | 10 | \$12 | 13% | 1.5 |
| DLC | Automated control system | Manual Controls | Misc. | Space Heating | Existing | building | 2,518 | 17% | 0.2 | 15 | \$2,757 | 51% | 0.2 |
| DLC | Automated control system | Manual Controls | Misc. | Space Heating | New | building | 2,518 | 17% | 0.2 | 15 | \$2,757 | 94% | 0.2 |
| DLC | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Misc. | Space Heating | Existing | building | 2,518 | 4.9% | 0.05 | 15 | \$17,130 | 71% | 0.0 |
| DLC | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Misc. | Space Heating | New | building | 2,518 | 1.7% | 0.02 | 15 | \$16,283 | 94% | 0.0 |
| DLC | Duct Insulation, Add R8 | No Insulation | Misc. | Space Heating | Existing | building | 2,518 | 1.4% | 0.04 | 15 | \$20 | 20% | 3.0 |
| DLC | Duct Insulation, Add R8 | No Insulation | Misc. | Space Heating | New | building | 2,518 | 1.4% | 0.04 | 15 | \$20 | 10% | 3.0 |
| DLC | Efficient Unit Heating System | Existing Unit Heaters in PA | Misc. | Space Heating | Early | heater | 30,613 | 23% | 0.05 | 15 | \$3,289 | 83% | 1.3 |
| DLC | Efficient Unit Heating System | Std. Unit Heater | Misc. | Space Heating | New | heater | 27,169 | 13% | 0.03 | 15 | \$1,991 | 83% | 1.1 |
| DLC | Efficient Unit Heating System | Std. Unit Heater | Misc. | Space Heating | ROB | heater | 27,169 | 13% | 0.03 | 15 | \$1,991 | 83% | 1.1 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Misc. | Space Heating | Existing | building | 2,518 | 7.1% | 0.07 | 15 | \$11,171 | 25% | 0.0 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Misc. | Space Heating | New | building | 2,518 | 7.1% | 0.07 | 15 | \$11,171 | 35% | 0.0 |
| DLC | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Misc. | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 1.1 |
| DLC | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Misc. | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 1.1 |
| DLC | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Misc. | Space Heating | Existing | building | 2,518 | 2.2% | 0.02 | 10 | \$7,735 | 81% | 0.0 |
| DLC | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Misc. | Space Heating | New | building | 2,518 | 2.2% | 0.02 | 10 | \$7,735 | 81% | 0.0 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Misc. | Space Heating | Existing | building | 2,518 | 3.6% | 0.04 | 11 | \$286 | 49% | 0.2 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Misc. | Space Heating | New | building | 2,518 | 3.1% | 0.03 | 11 | \$146 | 49% | 0.4 |
| DLC | Re-Commissioning (Existing Construction) | No Re-Commissioning | Misc. | Space Heating | Existing | building | 2,518 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |
| DLC | VFD on Cooling Tower Fan | Motor w/out VFD | Misc. | Space Heating | Early | motor | 18,724 | 70% | 0.10 | 15 | \$2,843 | 88% | 2.8 |
| DLC | VFD on Cooling Tower Fan | Motor w/out VFD | Misc. | Space Heating | New | motor | 18,373 | 72% | 0.10 | 15 | \$2,843 | 88% | 2.8 |
| DLC | VFD on Cooling Tower Fan | Motor w/out VFD | Misc. | Space Heating | ROB | motor | 18,373 | 72% | 0.10 | 15 | \$2,843 | 88% | 2.8 |
| DLC | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Misc. | Space Heating | Existing | building | 2,518 | 14% | 0.1 | 15 | \$5,133 | 26% | 0.1 |
| DLC | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Misc. | Space Heating | New | building | 2,518 | 0.4% | 0.00 | 15 | \$3,937 | 94% | 0.0 |
| DLC | 80W Induction Street Lighting | One 100W HPS Street Light Fixture | Misc. | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 0% | 0.3 |
| DLC | 80W Induction Street Lighting | One 100W HPS Street Light Fixture | Misc. | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.9 |
| DLC | 80W Induction Street Lighting | One 100W HPS Street Light Fixture | Misc. | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.9 |
| DLC | Green LED Traffic Light | Green Incandescent Traffic Light | Misc. | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 0% | 1.3 |
| DLC | Green LED Traffic Light | Green Incandescent Traffic Light | Misc. | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|---|---------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Green LED Traffic Light | Green Incandescent Traffic Light | Misc. | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.2 |
| DLC | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Misc. | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 0% | 3.1 |
| DLC | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Misc. | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| DLC | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Misc. | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| DLC | LED Street Lighting (67W) | One 100W HPS Street Light | Misc. | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 0% | 0.2 |
| DLC | LED Street Lighting (67W) | One 100W HPS Street Light | Misc. | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.4 |
| DLC | LED Street Lighting (67W) | One 100W HPS Street Light | Misc. | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.4 |
| DLC | Red LED Traffic Light | One Red Incandescent Traffic Light | Misc. | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 0% | 1.7 |
| DLC | Red LED Traffic Light | One Red Incandescent Traffic Light | Misc. | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| DLC | Red LED Traffic Light | One Red Incandescent Traffic Light | Misc. | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| DLC | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Misc. | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 0% | 0.1 |
| DLC | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Misc. | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| DLC | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Misc. | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| DLC | Demand controlled Circulating Systems | Constant circulation system | Misc. | Water Heating | Existing | building | 1,379 | 20% | 0.2 | 15 | \$250 | 59% | 1.4 |
| DLC | Demand controlled Circulating Systems | Constant circulation system | Misc. | Water Heating | New | building | 1,379 | 20% | 0.2 | 15 | \$250 | 59% | 1.4 |
| DLC | Drainwater Heat Recovery Water Heater | No heat recovery | Misc. | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 2.1 |
| DLC | Drainwater Heat Recovery Water Heater | No heat recovery | Misc. | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 2.1 |
| DLC | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Misc. | Water Heating | Existing | building | 1,379 | 5.9% | 0.06 | 12 | \$14 | 85% | 6.3 |
| DLC | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Misc. | Water Heating | New | building | 1,379 | 5.9% | 0.06 | 12 | \$4.0 | 85% | 21.9 |
| DLC | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Misc. | Water Heating | Early | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 3.1 |
| DLC | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Misc. | Water Heating | Early | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 3.1 |
| DLC | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Misc. | Water Heating | New | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 3.1 |
| DLC | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Misc. | Water Heating | New | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 3.1 |
| DLC | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Misc. | Water Heating | ROB | water heater | 10,350 | 65% | 1.2 | 10 | \$1,187 | 68% | 2.9 |
| DLC | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Misc. | Water Heating | ROB | water heater | 10,350 | 65% | 1.2 | 10 | \$1,187 | 68% | 2.9 |
| DLC | Heat Recovery Unit | Base Water Heating | Misc. | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.8 |
| DLC | Heat Recovery Unit | Base Water Heating | Misc. | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.8 |
| DLC | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Misc. | Water Heating | Early | water heater | 3,246 | 5.9% | 0.03 | 15 | \$307 | 79% | 0.5 |
| DLC | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Misc. | Water Heating | Early | water heater | 3,246 | 5.9% | 0.03 | 15 | \$307 | 79% | 0.5 |
| DLC | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Misc. | Water Heating | New | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.8 |
| DLC | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Misc. | Water Heating | New | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.8 |
| DLC | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Misc. | Water Heating | ROB | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.8 |
| DLC | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Misc. | Water Heating | ROB | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.8 |
| DLC | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Misc. | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$466 | 81% | 43.7 |
| DLC | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Misc. | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 22.8 |
| DLC | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Misc. | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 22.8 |
| DLC | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Misc. | Water Heating | Existing | building | 1,379 | 2.7% | 0.03 | 13 | \$5.4 | 68% | 8.0 |
| DLC | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Misc. | Water Heating | New | building | 1,379 | 2.7% | 0.03 | 13 | \$5.4 | 0% | 8.0 |
| DLC | Hot Water Circulation Pump Time-Clock | Constant circulation system | Misc. | Water Heating | Existing | building | 1,379 | 5.3% | 0.05 | 10 | \$5.6 | 72% | 11.9 |
| DLC | Hot Water Circulation Pump Time-Clock | Constant circulation system | Misc. | Water Heating | New | building | 1,379 | 5.3% | 0.05 | 10 | \$5.6 | 72% | 11.9 |
| DLC | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Misc. | Water Heating | Existing | building | 1,268 | 2.9% | 0.03 | 7 | \$22 | 78% | 1.1 |
| DLC | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Misc. | Water Heating | New | building | 1,379 | 0.8% | 0.01 | 7 | \$0.5 | 78% | 13.7 |
| DLC | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Misc. | Water Heating | Existing | building | 1,379 | 13% | 0.1 | 5 | \$300 | 0% | 0.3 |
| DLC | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Misc. | Water Heating | New | building | 1,379 | 9.3% | 0.09 | 5 | \$194 | 0% | 0.3 |
| DLC | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Misc. | Water Heating | Existing | building | 1,379 | 6.5% | 0.07 | 9 | \$25 | 2% | 2.9 |
| DLC | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Misc. | Water Heating | New | building | 1,379 | 6.5% | 0.07 | 9 | \$6.0 | 2% | 12.2 |
| DLC | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Misc. | Water Heating | Early | water heater | 10,645 | 52% | 0.4 | 15 | \$6,222 | 32% | 0.6 |
| DLC | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Misc. | Water Heating | New | water heater | 10,350 | 51% | 0.4 | 15 | \$6,222 | 32% | 0.6 |
| DLC | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Misc. | Water Heating | ROB | water heater | 10,350 | 51% | 0.4 | 15 | \$6,222 | 32% | 0.6 |
| DLC | Ultrasonic Faucet Control | Manual Faucet Control | Misc. | Water Heating | Existing | building | 1,379 | 3.0% | 0.03 | 10 | \$238 | 77% | 0.2 |
| DLC | Ultrasonic Faucet Control | Manual Faucet Control | Misc. | Water Heating | New | building | 1,379 | 3.0% | 0.03 | 10 | \$238 | 77% | 0.2 |
| DLC | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Misc. | Water Heating | Existing | building | 1,379 | 2.2% | 0.02 | 4 | \$28 | 83% | 0.4 |
| DLC | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Misc. | Water Heating | New | building | 1,379 | 2.3% | 0.02 | 4 | \$28 | 83% | 0.4 |
| DLC | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Office | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.2 |
| DLC | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Office | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.2 |
| DLC | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Office | Cooking | Early | steamer | 51 | 46% | 0.00 | 12 | \$5,053 | 81% | 0.0 |
| DLC | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Office | Cooking | New | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| DLC | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Office | Cooking | ROB | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| DLC | Electric combination oven (Energy Star) | Standard Oven | Office | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 3.3 |
| DLC | Electric combination oven (Energy Star) | Standard Oven | Office | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 3.3 |
| DLC | Electric Convection Oven ENERTY STAR (74% Eff) | Conventional convection oven w/ 65% efficiency | Office | Cooking | Early | oven | 8,641 | 37% | 0.6 | 12 | \$4,119 | 81% | 0.5 |
| DLC | Electric Convection Oven ENERTY STAR (74% Eff) | Conventional convection oven w/ 70% efficiency | Office | Cooking | New | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.8 |
| DLC | Electric Convection Oven ENERTY STAR (74% Eff) | Conventional convection oven w/ 70% efficiency | Office | Cooking | ROB | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.8 |
| DLC | High Efficiency Fryer (ENERGY STAR 84% Eff) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Office | Cooking | Early | fryer | 6,105 | 23% | 0.3 | 12 | \$9,241 | 86% | 0.1 |
| DLC | High Efficiency Fryer (ENERGY STAR 84% Eff) | Standard Electric Fryer meeting Code Minimum | Office | Cooking | New | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.4 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|---|---------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | High Efficiency Fryer (ENERGY STAR 84% Eff) | Standard Electric Fryer meeting Code Minimum | Office | Cooking | ROB | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.4 |
| DLC | High Efficiency Griddle (ENERGY STAR 75% Eff) | Efficiency code minimum griddle (70% eff) | Office | Cooking | Early | griddle | 11,317 | 65% | 1.4 | 12 | \$4,977 | 86% | 1.0 |
| DLC | High Efficiency Griddle (ENERGY STAR 75% Eff) | Conventional Griddle w/ 60% efficiency | Office | Cooking | New | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.3 |
| DLC | High Efficiency Griddle (ENERGY STAR 75% Eff) | Conventional Griddle w/ 60% efficiency | Office | Cooking | ROB | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.3 |
| DLC | High Efficiency Induction Cooking | Standard Cooking | Office | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.2 |
| DLC | High Efficiency Induction Cooking | Standard Cooking | Office | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.2 |
| DLC | Active chilled beam cooling | No Active Chilled beam cooling | Office | Cooling Central | New | building | 1,148 | 5.3% | 0.05 | 15 | \$300 | 72% | 0.3 |
| DLC | Adding reflective roof treatment | Std color roof | Office | Cooling Central | Existing | building | 1,208 | 7.0% | 0.07 | 6 | \$11,826 | 82% | 0.0 |
| DLC | Adding reflective roof treatment | Std color roof | Office | Cooling Central | New | building | 1,208 | 7.0% | 0.07 | 6 | \$11,826 | 82% | 0.0 |
| DLC | Adding window shade film | No shade film | Office | Cooling Central | Existing | building | 1,208 | 1.3% | 0.4 | 10 | \$15 | 12% | 18.2 |
| DLC | Adding window shade film | No shade film | Office | Cooling Central | New | building | 1,208 | 1.3% | 0.4 | 10 | \$15 | 13% | 18.2 |
| DLC | Adding window shade screen | No shade screen | Office | Cooling Central | Existing | building | 1,208 | 1.1% | 0.01 | 10 | \$5.7 | 13% | 2.1 |
| DLC | Adding window shade screen | No shade screen | Office | Cooling Central | New | building | 1,208 | 1.0% | 0.01 | 10 | \$5.7 | 13% | 2.1 |
| DLC | Automated control system | Manual Controls | Office | Cooling Central | Existing | building | 1,208 | 17% | 0.2 | 15 | \$1,323 | 51% | 0.2 |
| DLC | Automated control system | Manual Controls | Office | Cooling Central | New | building | 1,208 | 17% | 0.2 | 15 | \$1,323 | 94% | 0.2 |
| DLC | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Office | Cooling Central | Existing | building | 1,208 | 4.9% | 0.05 | 15 | \$16,437 | 71% | 0.0 |
| DLC | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Office | Cooling Central | New | building | 1,208 | 2.3% | 0.02 | 15 | \$15,624 | 94% | 0.0 |
| DLC | Chilled Water Reset, Optimizer System for Chiller(s) | No Chilled Water Reset | Office | Cooling Central | Existing | building | 1,208 | 3.7% | 0.04 | 10 | \$5.5 | 69% | 8.0 |
| DLC | Chiller Tune Up Diagnostics | No Chiller Tune Up | Office | Cooling Central | Existing | building | 1,208 | 2.3% | 0.02 | 10 | \$1.2 | 59% | 22.4 |
| DLC | Chiller Tuneup/Diagnostics | No tuneup | Office | Cooling Central | Existing | building | 1,208 | 8.0% | 0.08 | 10 | \$3,085 | 59% | 0.0 |
| DLC | Chiller Tuneup/Diagnostics | No tuneup | Office | Cooling Central | New | building | 1,208 | 8.0% | 0.08 | 10 | \$3,085 | 59% | 0.0 |
| DLC | Cooling Tower Optimization | No Cooling Tower Optimization | Office | Cooling Central | Existing | building | 1,208 | 15% | 0.1 | 10 | \$16 | 73% | 10.6 |
| DLC | Duct Insulation, Add R8 | No Insulation | Office | Cooling Central | Existing | building | 1,208 | 1.4% | 0.04 | 15 | \$9.6 | 20% | 5.0 |
| DLC | Duct Insulation, Add R8 | No Insulation | Office | Cooling Central | New | building | 1,208 | 1.4% | 0.04 | 15 | \$9.6 | 10% | 5.0 |
| DLC | Facility Commissioning | No Facility Commissioning | Office | Cooling Central | New | building | 1,208 | 16% | 0.2 | 10 | \$45,446 | 89% | 0.0 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Office | Cooling Central | Existing | building | 1,208 | 7.0% | 0.07 | 15 | \$5,360 | 25% | 0.0 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Office | Cooling Central | New | building | 1,208 | 7.0% | 0.07 | 15 | \$5,360 | 35% | 0.0 |
| DLC | Hi Eff HVAC System Design | No HVAC Design | Office | Cooling Central | New | building | 1,208 | 0.8% | 0.01 | 10 | \$1,030 | 51% | 0.0 |
| DLC | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Office | Cooling Central | Early | ton | 5,094 | 24% | 0.4 | 15 | \$108,550 | 88% | 0.0 |
| DLC | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Office | Cooling Central | New | ton | 4,164 | 6.7% | 0.10 | 15 | \$12,927 | 88% | 0.0 |
| DLC | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Office | Cooling Central | ROB | ton | 4,164 | 6.7% | 0.10 | 15 | \$12,927 | 88% | 0.0 |
| DLC | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Office | Cooling Central | Early | ton | 7,611 | 23% | 0.6 | 15 | \$140,105 | 88% | 0.0 |
| DLC | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Office | Cooling Central | New | ton | 6,124 | 4.8% | 0.1 | 15 | \$9,336 | 88% | 0.0 |
| DLC | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Office | Cooling Central | ROB | ton | 6,124 | 4.8% | 0.1 | 15 | \$9,336 | 88% | 0.0 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Office | Cooling Central | Early | ton | 62,308 | 26% | 5.6 | 15 | \$105,354 | 88% | 0.1 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Office | Cooling Central | New | ton | 54,288 | 15% | 2.8 | 15 | \$30,530 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Office | Cooling Central | ROB | ton | 54,288 | 15% | 2.8 | 15 | \$30,530 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Office | Cooling Central | Early | ton | 93,320 | 23% | 7.4 | 15 | \$154,107 | 88% | 0.1 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Office | Cooling Central | New | ton | 85,726 | 16% | 4.8 | 15 | \$27,646 | 88% | 0.5 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Office | Cooling Central | ROB | ton | 93,320 | 23% | 7.4 | 15 | \$27,646 | 88% | 0.7 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Office | Cooling Central | Early | ton | 154,988 | 23% | 12.2 | 15 | \$302,924 | 88% | 0.1 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Office | Cooling Central | New | ton | 140,275 | 14% | 7.0 | 15 | \$115,432 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Office | Cooling Central | ROB | ton | 154,988 | 23% | 12.2 | 15 | \$115,432 | 88% | 0.3 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Office | Cooling Central | Early | ton | 185,985 | 23% | 14.6 | 15 | \$350,154 | 88% | 0.1 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Office | Cooling Central | New | ton | 168,330 | 14% | 8.5 | 15 | \$120,406 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Office | Cooling Central | ROB | ton | 185,985 | 23% | 14.6 | 15 | \$120,406 | 88% | 0.3 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Office | Cooling Central | Early | ton | 41,225 | 29% | 4.2 | 15 | \$83,632 | 88% | 0.1 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Office | Cooling Central | New | ton | 32,011 | 8.9% | 1.0 | 15 | \$40,211 | 88% | 0.1 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Office | Cooling Central | ROB | ton | 41,225 | 29% | 4.2 | 15 | \$40,211 | 88% | 0.3 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Office | Cooling Central | Early | ton | 70,835 | 35% | 8.6 | 15 | \$132,173 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Office | Cooling Central | New | ton | 52,831 | 13% | 2.3 | 15 | \$39,556 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Office | Cooling Central | ROB | ton | 52,831 | 13% | 2.3 | 15 | \$39,556 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Office | Cooling Central | Early | ton | 118,265 | 39% | 16.1 | 15 | \$187,029 | 88% | 0.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|---|---------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Office | Cooling Central | New | ton | 84,321 | 15% | 4.3 | 15 | \$33,554 | 88% | 0.3 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Office | Cooling Central | ROB | ton | 118,265 | 39% | 16.1 | 15 | \$33,554 | 88% | 1.3 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Office | Cooling Central | Early | ton | 20,695 | 30% | 2.1 | 15 | \$32,398 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Office | Cooling Central | New | ton | 16,396 | 11% | 0.6 | 15 | \$7,188 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Office | Cooling Central | ROB | ton | 20,695 | 30% | 2.1 | 15 | \$7,188 | 88% | 0.8 |
| DLC | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Office | Cooling Central | Existing | building | 1,208 | 2.8% | 0.03 | 10 | \$5,350 | 81% | 0.0 |
| DLC | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Office | Cooling Central | New | building | 1,208 | 2.8% | 0.03 | 10 | \$5,350 | 81% | 0.0 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Office | Cooling Central | Existing | building | 1,208 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.1 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Office | Cooling Central | New | building | 1,208 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.2 |
| DLC | Re-Commissioning (Existing Construction) | No Re-Commissioning | Office | Cooling Central | Existing | building | 1,208 | 16% | 0.2 | 5 | \$7,777 | 86% | 0.0 |
| DLC | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Office | Cooling Central | Existing | building | 1,208 | 15% | 0.2 | 15 | \$5,028 | 26% | 0.1 |
| DLC | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Office | Cooling Central | New | building | 1,208 | 0.5% | 0.01 | 15 | \$3,857 | 94% | 0.0 |
| DLC | <65k BTU/hr 14 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Office | Cooling Unitary | Early | ton | 2,203 | 16% | 0.2 | 15 | \$1,545 | 29% | 0.2 |
| DLC | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Office | Cooling Unitary | New | ton | 1,995 | 7.1% | 0.07 | 15 | \$339 | 29% | 0.4 |
| DLC | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Office | Cooling Unitary | ROB | ton | 1,995 | 7.1% | 0.07 | 15 | \$339 | 29% | 0.4 |
| DLC | <65k BTU/hr 15 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Office | Cooling Unitary | Early | ton | 2,203 | 22% | 0.2 | 15 | \$1,821 | 30% | 0.3 |
| DLC | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Office | Cooling Unitary | New | ton | 1,995 | 13% | 0.1 | 15 | \$714 | 30% | 0.4 |
| DLC | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Office | Cooling Unitary | ROB | ton | 1,995 | 13% | 0.1 | 15 | \$714 | 30% | 0.4 |
| DLC | <65k BTU/hr 16 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Office | Cooling Unitary | Early | ton | 2,203 | 26% | 0.3 | 15 | \$2,098 | 31% | 0.3 |
| DLC | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Office | Cooling Unitary | New | ton | 1,995 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.4 |
| DLC | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Office | Cooling Unitary | ROB | ton | 1,995 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.4 |
| DLC | >760k min 10.2 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Office | Cooling Unitary | Early | ton | 55,737 | 3.7% | 1.0 | 15 | \$68,066 | 56% | 0.0 |
| DLC | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Office | Cooling Unitary | New | ton | 56,452 | 4.9% | 1.3 | 15 | \$6,231 | 56% | 0.5 |
| DLC | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Office | Cooling Unitary | ROB | ton | 56,452 | 4.9% | 1.3 | 15 | \$6,231 | 56% | 0.5 |
| DLC | 135-240k min 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Office | Cooling Unitary | Early | ton | 13,714 | 18% | 1.2 | 15 | \$18,135 | 79% | 0.1 |
| DLC | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Office | Cooling Unitary | New | ton | 12,475 | 10.0% | 0.6 | 15 | \$1,948 | 79% | 0.7 |
| DLC | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Office | Cooling Unitary | ROB | ton | 12,475 | 10.0% | 0.6 | 15 | \$1,948 | 79% | 0.7 |
| DLC | 240k-760k min 11 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Office | Cooling Unitary | Early | ton | 36,669 | 9.0% | 1.6 | 15 | \$44,809 | 66% | 0.1 |
| DLC | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Office | Cooling Unitary | New | ton | 36,760 | 9.3% | 1.6 | 15 | \$4,813 | 66% | 0.8 |
| DLC | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Office | Cooling Unitary | ROB | ton | 36,760 | 9.3% | 1.6 | 15 | \$4,813 | 66% | 0.8 |
| DLC | 65k-135k BTU/hr 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Office | Cooling Unitary | Early | ton | 8,084 | 17% | 0.7 | 15 | \$10,946 | 86% | 0.1 |
| DLC | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Office | Cooling Unitary | New | ton | 7,205 | 6.7% | 0.2 | 15 | \$1,392 | 86% | 0.4 |
| DLC | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Office | Cooling Unitary | ROB | ton | 7,205 | 6.7% | 0.2 | 15 | \$1,392 | 86% | 0.4 |
| DLC | Adding reflective roof treatment | Std color roof | Office | Cooling Unitary | Existing | building | 20,178 | 7.0% | 0.07 | 6 | \$11,826 | 82% | 0.0 |
| DLC | Adding reflective roof treatment | Std color roof | Office | Cooling Unitary | New | building | 20,178 | 7.0% | 0.07 | 6 | \$11,826 | 82% | 0.0 |
| DLC | Adding window shade film | No shade film | Office | Cooling Unitary | Existing | building | 20,178 | 1.3% | 0.4 | 10 | \$246 | 12% | 1.5 |
| DLC | Adding window shade film | No shade film | Office | Cooling Unitary | New | building | 20,178 | 1.3% | 0.4 | 10 | \$246 | 13% | 1.5 |
| DLC | Adding window shade screen | No shade screen | Office | Cooling Unitary | Existing | building | 20,178 | 1.1% | 0.01 | 10 | \$95 | 12% | 1.0 |
| DLC | Adding window shade screen | No shade screen | Office | Cooling Unitary | New | building | 20,178 | 1.1% | 0.01 | 10 | \$95 | 13% | 1.0 |
| DLC | Automated control system | Manual Controls | Office | Cooling Unitary | Existing | building | 20,178 | 17% | 0.2 | 15 | \$22,090 | 51% | 0.1 |
| DLC | Automated control system | Manual Controls | Office | Cooling Unitary | New | building | 20,178 | 17% | 0.2 | 15 | \$22,090 | 94% | 0.1 |
| DLC | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Office | Cooling Unitary | Existing | building | 20,178 | 4.9% | 0.05 | 15 | \$16,437 | 71% | 0.0 |
| DLC | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Office | Cooling Unitary | New | building | 20,178 | 2.3% | 0.02 | 15 | \$15,624 | 94% | 0.0 |
| DLC | Duct Insulation, Add R8 | No Insulation | Office | Cooling Unitary | Existing | building | 20,178 | 1.4% | 0.04 | 15 | \$160 | 20% | 1.3 |
| DLC | Duct Insulation, Add R8 | No Insulation | Office | Cooling Unitary | New | building | 20,178 | 1.4% | 0.04 | 15 | \$160 | 10% | 1.3 |
| DLC | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Office | Cooling Unitary | Existing | building | 11,098 | 13% | 0.1 | 1 | \$106 | 73% | 0.6 |
| DLC | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Office | Cooling Unitary | New | building | 11,098 | 13% | 0.1 | 1 | \$106 | 73% | 0.6 |
| DLC | ECM Motors for split systems | Std Shaded Pole Motor | Office | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 3.2 |
| DLC | ECM Motors for split systems | Std Shaded Pole Motor | Office | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 3.2 |
| DLC | Facility Commissioning | No Facility Commissioning | Office | Cooling Unitary | New | building | 20,178 | 16% | 0.2 | 10 | \$598 | 89% | 2.3 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Office | Cooling Unitary | Existing | building | 20,178 | 7.1% | 0.07 | 15 | \$89,506 | 25% | 0.0 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Office | Cooling Unitary | New | building | 20,178 | 7.0% | 0.07 | 15 | \$89,506 | 35% | 0.0 |
| DLC | Hi Eff HVAC System Design | No HVAC Design | Office | Cooling Unitary | New | building | 20,178 | 0.8% | 0.01 | 10 | \$104 | 51% | 0.6 |
| DLC | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Office | Cooling Unitary | Existing | building | 20,178 | 5.0% | 0.05 | 5 | \$225 | 59% | 0.9 |
| DLC | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Office | Cooling Unitary | Existing | building | 20,178 | 0.5% | 0.04 | 5 | \$225 | 51% | 0.2 |
| DLC | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Office | Cooling Unitary | New | building | 20,178 | 0.5% | 0.04 | 5 | \$135 | 51% | 0.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|---|---------|-----------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Office | Cooling Unitary | Existing | building | 20,178 | 2.8% | 0.03 | 10 | \$5,750 | 86% | 0.0 |
| DLC | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Office | Cooling Unitary | New | building | 20,178 | 2.8% | 0.03 | 10 | \$5,750 | 86% | 0.0 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) | Office | Cooling Unitary | Existing | building | 20,178 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.7 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Office | Cooling Unitary | New | building | 20,178 | 1.7% | 0.02 | 11 | \$146 | 49% | 1.1 |
| DLC | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Office | Cooling Unitary | Early | unit | 569 | 19% | 0.08 | 15 | \$849 | 85% | 0.2 |
| DLC | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Office | Cooling Unitary | New | unit | 575 | 20% | 0.09 | 15 | \$356 | 85% | 0.4 |
| DLC | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Office | Cooling Unitary | ROB | unit | 575 | 20% | 0.09 | 15 | \$356 | 85% | 0.4 |
| DLC | Re-Commissioning (Existing Construction) | No Re-Commissioning | Office | Cooling Unitary | Existing | building | 20,178 | 16% | 0.2 | 5 | \$7,777 | 86% | 0.1 |
| DLC | Room AC (w/ louvered sides) | Existing efficiency Room AC in Pennsylvania (2000 Federal Standards) | Office | Cooling Unitary | Early | ton | 660 | 13% | 0.03 | 9 | \$348 | 82% | 0.1 |
| DLC | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Office | Cooling Unitary | New | ton | 599 | 4.5% | 0.01 | 9 | \$17 | 82% | 0.9 |
| DLC | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Office | Cooling Unitary | ROB | ton | 599 | 4.5% | 0.01 | 9 | \$17 | 82% | 0.9 |
| DLC | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Office | Cooling Unitary | Existing | building | 20,178 | 15% | 0.2 | 15 | \$5,028 | 26% | 0.4 |
| DLC | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Office | Cooling Unitary | New | building | 20,178 | 0.5% | 0.01 | 15 | \$3,857 | 94% | 0.0 |
| DLC | 80W Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Office | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 0% | 0.2 |
| DLC | 80W Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Office | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| DLC | 80W Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Office | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| DLC | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Office | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 1.2 |
| DLC | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Office | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.7 |
| DLC | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Office | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.7 |
| DLC | LED exterior lighting | 250 Watt Incandescent | Office | Ext. Lighting | ROB | measure | 262 | 83% | 0.05 | 15 | \$104 | 89% | 1.7 |
| DLC | LED exterior lighting | 250 Watt Incandescent | Office | Ext. Lighting | ROB | measure | 277 | 83% | 0.05 | 15 | \$104 | 89% | 1.8 |
| DLC | LED exterior lighting | 250 Watt Incandescent | Office | Ext. Lighting | ROB | measure | 277 | 83% | 0.05 | 15 | \$104 | 89% | 1.8 |
| DLC | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Office | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 53% | 0.3 |
| DLC | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Office | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 53% | 0.2 |
| DLC | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Office | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 53% | 3.1 |
| DLC | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Office | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 53% | 2.3 |
| DLC | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Office | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 53% | 3.1 |
| DLC | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Office | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 53% | 2.3 |
| DLC | Photocell Controls (Outdoor) | Lighting w/ No Controls | Office | Ext. Lighting | Existing | building | 117 | 28% | 0.3 | 8 | \$3,091 | 88% | 0.1 |
| DLC | Photocell Controls (Outdoor) | Lighting w/ No Controls | Office | Ext. Lighting | New | building | 117 | 28% | 0.3 | 8 | \$3,091 | 0% | 0.1 |
| DLC | Adding reflective roof treatment | Std color roof | Office | Heat Pump | Existing | building | 2,269 | 6.9% | 0.07 | 6 | \$11,826 | 82% | 0.0 |
| DLC | Adding reflective roof treatment | Std color roof | Office | Heat Pump | New | building | 2,269 | 6.9% | 0.07 | 6 | \$11,826 | 82% | 0.0 |
| DLC | Adding window shade film | No shade film | Office | Heat Pump | Existing | building | 2,269 | 3.9% | 0.4 | 10 | \$28 | 12% | 10.7 |
| DLC | Adding window shade film | No shade film | Office | Heat Pump | New | building | 2,269 | 3.9% | 0.4 | 10 | \$28 | 12% | 10.7 |
| DLC | Adding window shade screen | No shade screen | Office | Heat Pump | Existing | building | 2,269 | 0.3% | 0.01 | 10 | \$3.6 | 12% | 2.8 |
| DLC | Adding window shade screen | No shade screen | Office | Heat Pump | New | building | 2,269 | 0.3% | 0.01 | 10 | \$3.6 | 12% | 2.8 |
| DLC | Automated control system | Manual Controls | Office | Heat Pump | Existing | building | 2,269 | 17% | 0.2 | 15 | \$2,484 | 51% | 0.2 |
| DLC | Automated control system | Manual Controls | Office | Heat Pump | New | building | 2,269 | 17% | 0.2 | 15 | \$2,484 | 94% | 0.2 |
| DLC | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Office | Heat Pump | Existing | building | 2,269 | 4.9% | 0.05 | 15 | \$16,437 | 71% | 0.0 |
| DLC | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Office | Heat Pump | New | building | 2,269 | 2.3% | 0.02 | 15 | \$15,624 | 94% | 0.0 |
| DLC | Duct Insulation, Add R8 | No Insulation | Office | Heat Pump | Existing | building | 2,269 | 4.0% | 0.04 | 15 | \$18 | 12% | 5.2 |
| DLC | Duct Insulation, Add R8 | No Insulation | Office | Heat Pump | New | building | 2,269 | 4.0% | 0.04 | 15 | \$18 | 6% | 5.2 |
| DLC | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Office | Heat Pump | Early | heat pump | 1,025 | 13% | 0.01 | 15 | \$4,070 | 83% | 0.0 |
| DLC | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Office | Heat Pump | New | heat pump | 968 | 7.7% | 0.01 | 15 | \$1,097 | 83% | 0.0 |
| DLC | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Office | Heat Pump | ROB | heat pump | 968 | 7.7% | 0.01 | 15 | \$1,097 | 83% | 0.0 |
| DLC | Facility Commissioning | No Facility Commissioning | Office | Heat Pump | New | building | 2,269 | 16% | 0.2 | 10 | \$45,446 | 89% | 0.0 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Office | Heat Pump | Existing | building | 2,269 | 7.0% | 0.07 | 15 | \$10,064 | 25% | 0.0 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Office | Heat Pump | New | building | 2,269 | 7.0% | 0.07 | 15 | \$10,064 | 35% | 0.0 |
| DLC | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Office | Heat Pump | Early | heat pump | 10,751 | 18% | 0.2 | 15 | \$91,117 | 19% | 0.0 |
| DLC | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Office | Heat Pump | New | heat pump | 10,274 | 15% | 0.1 | 15 | \$33,927 | 19% | 0.0 |
| DLC | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Office | Heat Pump | ROB | heat pump | 10,274 | 15% | 0.1 | 15 | \$33,927 | 19% | 0.0 |
| DLC | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Office | Heat Pump | Early | heat pump | 10,751 | 18% | 0.2 | 15 | \$58,356 | 19% | 0.0 |
| DLC | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Office | Heat Pump | New | heat pump | 10,274 | 15% | 0.1 | 15 | \$1,167 | 19% | 0.9 |
| DLC | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Office | Heat Pump | ROB | heat pump | 10,274 | 15% | 0.1 | 15 | \$1,167 | 19% | 0.9 |
| DLC | Hi Eff HVAC System Design | No HVAC Design | Office | Heat Pump | New | building | 2,269 | 0.7% | 0.01 | 10 | \$1,030 | 51% | 0.0 |
| DLC | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Office | Heat Pump | Early | heat pump | 2,734 | 18% | 0.04 | 12 | \$4,298 | 81% | 0.1 |
| DLC | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Office | Heat Pump | New | heat pump | 2,580 | 13% | 0.03 | 12 | \$852 | 81% | 0.2 |
| DLC | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Office | Heat Pump | ROB | heat pump | 2,580 | 13% | 0.03 | 12 | \$852 | 81% | 0.2 |
| DLC | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Office | Heat Pump | Existing | building | 2,269 | 5.0% | 0.01 | 5 | \$90 | 51% | 0.3 |
| DLC | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Office | Heat Pump | New | building | 2,269 | 5.0% | 0.01 | 5 | \$90 | 51% | 0.3 |
| DLC | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Office | Heat Pump | Existing | building | 2,269 | 2.8% | 0.03 | 10 | \$5,119 | 81% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|--|---------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Office | Heat Pump | New | building | 2,269 | 2.8% | 0.03 | 10 | \$5,119 | 81% | 0.0 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Office | Heat Pump | Existing | building | 2,269 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.1 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Office | Heat Pump | New | building | 2,269 | 2.1% | 0.02 | 11 | \$146 | 49% | 0.3 |
| DLC | Re-Commissioning (Existing Construction) | No Re-Commissioning | Office | Heat Pump | Existing | building | 2,269 | 16% | 0.2 | 5 | \$7,777 | 86% | 0.0 |
| DLC | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Office | Heat Pump | New | measure | 1,496,631 | 2.0% | 3.4 | 13 | \$188,409 | 43% | 0.1 |
| DLC | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Office | Heat Pump | ROB | measure | 1,496,631 | 2.0% | 3.4 | 13 | \$188,409 | 43% | 0.1 |
| DLC | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Office | Heat Pump | Existing | building | 2,269 | 15% | 0.2 | 15 | \$5,028 | 26% | 0.1 |
| DLC | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Office | Heat Pump | New | building | 2,269 | 0.5% | 0.01 | 15 | \$3,857 | 94% | 0.0 |
| DLC | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Office | Heat Pump | Early | heat pump | 4,292 | 32% | 0.1 | 15 | \$35,347 | 28% | 0.0 |
| DLC | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Office | Heat Pump | New | heat pump | 4,021 | 27% | 0.09 | 15 | \$15,739 | 28% | 0.0 |
| DLC | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Office | Heat Pump | ROB | heat pump | 4,021 | 27% | 0.09 | 15 | \$15,739 | 28% | 0.0 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Office | High Bay Lighting | Early | Fixture | 483 | 9.6% | 0.01 | 13 | \$850 | 39% | 0.0 |
| DLC | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Office | High Bay Lighting | Early | Fixture | 483 | 9.5% | 0.01 | 13 | \$850 | 28% | 0.0 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Office | High Bay Lighting | Early | Fixture | 745 | 41% | 0.08 | 13 | \$850 | 36% | 0.3 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Office | High Bay Lighting | New | Fixture | 367 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Office | High Bay Lighting | New | Fixture | 342 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Office | High Bay Lighting | New | Fixture | 566 | 41% | 0.06 | 13 | \$397 | 36% | 0.4 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Office | High Bay Lighting | ROB | Fixture | 483 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Office | High Bay Lighting | ROB | Fixture | 450 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Office | High Bay Lighting | ROB | Fixture | 745 | 41% | 0.08 | 13 | \$397 | 36% | 0.6 |
| DLC | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Office | High Bay Lighting | Early | Fixture | 938 | 19% | 0.05 | 13 | \$851 | 38% | 0.2 |
| DLC | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Office | High Bay Lighting | Early | Fixture | 950 | 20% | 0.05 | 13 | \$851 | 38% | 0.2 |
| DLC | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | Early | Fixture | 2,762 | 73% | 0.5 | 13 | \$851 | 38% | 1.8 |
| DLC | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Office | High Bay Lighting | New | Fixture | 713 | 19% | 0.03 | 13 | \$372 | 38% | 0.3 |
| DLC | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | New | Fixture | 2,099 | 73% | 0.4 | 13 | \$383 | 38% | 3.0 |
| DLC | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Office | High Bay Lighting | ROB | Fixture | 938 | 19% | 0.05 | 13 | \$372 | 38% | 0.4 |
| DLC | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | ROB | Fixture | 2,762 | 73% | 0.5 | 13 | \$383 | 38% | 3.9 |
| DLC | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Office | High Bay Lighting | Early | Fixture | 938 | 25% | 0.06 | 13 | \$554 | 29% | 0.3 |
| DLC | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Office | High Bay Lighting | Early | Fixture | 920 | 23% | 0.05 | 13 | \$554 | 28% | 0.3 |
| DLC | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | Early | Fixture | 2,762 | 74% | 0.5 | 13 | \$554 | 36% | 2.8 |
| DLC | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Office | High Bay Lighting | New | Fixture | 713 | 25% | 0.04 | 13 | \$75 | 29% | 1.8 |
| DLC | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | New | Fixture | 2,099 | 74% | 0.4 | 13 | \$86 | 36% | 13.6 |
| DLC | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Office | High Bay Lighting | ROB | Fixture | 938 | 25% | 0.06 | 13 | \$75 | 29% | 2.3 |
| DLC | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | ROB | Fixture | 2,762 | 74% | 0.5 | 13 | \$86 | 36% | 17.9 |
| DLC | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Office | High Bay Lighting | Early | Fixture | 245 | 0.2% | 0.00 | 13 | \$835 | 38% | 0.0 |
| DLC | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Office | High Bay Lighting | Early | Fixture | 527 | 54% | 0.07 | 13 | \$835 | 38% | 0.3 |
| DLC | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Office | High Bay Lighting | New | Fixture | 400 | 54% | 0.05 | 13 | \$382 | 38% | 0.4 |
| DLC | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Office | High Bay Lighting | ROB | Fixture | 527 | 54% | 0.07 | 13 | \$382 | 38% | 0.6 |
| DLC | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Office | High Bay Lighting | Early | Fixture | 1,195 | 18% | 0.05 | 13 | \$487 | 25% | 0.3 |
| DLC | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Office | High Bay Lighting | Early | Fixture | 1,249 | 22% | 0.07 | 13 | \$487 | 28% | 0.4 |
| DLC | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | Early | Fixture | 2,762 | 65% | 0.4 | 13 | \$487 | 36% | 2.7 |
| DLC | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Office | High Bay Lighting | New | Fixture | 908 | 18% | 0.04 | 13 | \$16 | 25% | 7.6 |
| DLC | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | New | Fixture | 2,099 | 65% | 0.3 | 13 | \$18 | 36% | 55.0 |
| DLC | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Office | High Bay Lighting | ROB | Fixture | 1,195 | 18% | 0.05 | 13 | \$16 | 25% | 10.0 |
| DLC | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | ROB | Fixture | 2,762 | 65% | 0.4 | 13 | \$18 | 36% | 72.3 |
| DLC | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Office | High Bay Lighting | Early | Fixture | 1,195 | 1.5% | 0.00 | 13 | \$557 | 19% | 0.0 |
| DLC | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Office | High Bay Lighting | Early | Fixture | 1,230 | 4.3% | 0.01 | 13 | \$557 | 19% | 0.1 |
| DLC | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | Early | Fixture | 2,762 | 57% | 0.4 | 13 | \$557 | 19% | 2.1 |
| DLC | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Office | High Bay Lighting | New | Fixture | 908 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| DLC | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | New | Fixture | 2,099 | 57% | 0.3 | 13 | \$88 | 19% | 10.2 |
| DLC | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Office | High Bay Lighting | ROB | Fixture | 1,195 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.2 |
| DLC | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | ROB | Fixture | 2,762 | 57% | 0.4 | 13 | \$88 | 19% | 13.4 |
| DLC | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Office | High Bay Lighting | Early | Fixture | 507 | 29% | 0.03 | 13 | \$492 | 71% | 0.2 |
| DLC | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Office | High Bay Lighting | Early | Fixture | 424 | 15% | 0.01 | 13 | \$492 | 95% | 0.1 |
| DLC | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Office | High Bay Lighting | Early | Fixture | 630 | 43% | 0.05 | 13 | \$492 | 95% | 0.4 |
| DLC | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Office | High Bay Lighting | Early | Fixture | 584 | 38% | 0.04 | 13 | \$492 | 95% | 0.3 |
| DLC | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Office | High Bay Lighting | New | Fixture | 322 | 15% | 0.01 | 13 | \$25 | 95% | 1.3 |
| DLC | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Office | High Bay Lighting | New | Fixture | 479 | 43% | 0.04 | 13 | \$51 | 95% | 2.7 |
| DLC | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Office | High Bay Lighting | ROB | Fixture | 424 | 15% | 0.01 | 13 | \$25 | 95% | 1.7 |
| DLC | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Office | High Bay Lighting | ROB | Fixture | 630 | 43% | 0.05 | 13 | \$51 | 95% | 3.6 |
| DLC | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Office | High Bay Lighting | Early | lamp | 86 | 16% | 0.00 | 12 | \$7.7 | 99% | 1.2 |
| DLC | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Office | High Bay Lighting | New | lamp | 51 | 13% | 0.00 | 12 | \$1.6 | 91% | 2.7 |
| DLC | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Office | High Bay Lighting | ROB | lamp | 82 | 13% | 0.00 | 12 | \$1.6 | 91% | 4.3 |
| DLC | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Office | High Bay Lighting | Early | Fixture | 2,826 | 23% | 0.2 | 13 | \$613 | 5% | 0.8 |
| DLC | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Office | High Bay Lighting | Early | Fixture | 2,220 | 1.6% | 0.01 | 13 | \$613 | 28% | 0.0 |
| DLC | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Office | High Bay Lighting | Early | Fixture | 5,524 | 60% | 0.8 | 13 | \$613 | 18% | 4.1 |
| DLC | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Office | High Bay Lighting | New | Fixture | 2,148 | 23% | 0.1 | 13 | \$96 | 5% | 3.8 |
| DLC | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Office | High Bay Lighting | ROB | Fixture | 2,826 | 23% | 0.2 | 13 | \$96 | 5% | 5.0 |
| DLC | 85W Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Office | High Bay Lighting | Early | Fixture | 2,826 | 92% | 0.7 | 13 | \$1,916 | 95% | 1.0 |
| DLC | 85W Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | Early | Fixture | 5,524 | 96% | 1.3 | 13 | \$1,916 | 95% | 2.1 |
| DLC | 85W Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Office | High Bay Lighting | New | Fixture | 2,148 | 92% | 0.5 | 13 | \$1,468 | 95% | 1.0 |
| DLC | 85W Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | New | Fixture | 4,198 | 96% | 1.0 | 13 | \$1,149 | 95% | 2.6 |
| DLC | 85W Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Office | High Bay Lighting | ROB | Fixture | 2,826 | 92% | 0.7 | 13 | \$1,468 | 95% | 1.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|--|---------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | 85W Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | ROB | Fixture | 5,524 | 96% | 1.3 | 13 | \$1,149 | 95% | 3.4 |
| DLC | Auto Off Time Switch | Lighting w/ No Controls | Office | High Bay Lighting | Existing | building | 486 | 24% | 0.2 | 8 | \$628 | 13% | 0.3 |
| DLC | Auto Off Time Switch | Lighting w/ No Controls | Office | High Bay Lighting | New | building | 486 | 6.9% | 0.07 | 8 | \$628 | 0% | 0.1 |
| DLC | Central Lighting Control System | Lighting w/ No Controls | Office | High Bay Lighting | Existing | building | 486 | 38% | 0.4 | 8 | \$628 | 13% | 0.4 |
| DLC | Central Lighting Control System | Lighting w/ No Controls | Office | High Bay Lighting | New | building | 486 | 14% | 0.1 | 8 | \$628 | 13% | 0.2 |
| DLC | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Office | High Bay Lighting | New | building | 486 | 10% | 0.1 | 15 | \$28,258 | 32% | 0.0 |
| DLC | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Office | High Bay Lighting | New | building | 486 | 15% | 0.2 | 15 | \$70,645 | 32% | 0.0 |
| DLC | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Office | High Bay Lighting | New | building | 486 | 30% | 0.3 | 15 | \$101,258 | 32% | 0.0 |
| DLC | Indoor Daylight Sensors | Lighting w/ No Controls | Office | High Bay Lighting | Existing | building | 486 | 28% | 0.3 | 8 | \$3,091 | 13% | 0.1 |
| DLC | Indoor Daylight Sensors | Lighting w/ No Controls | Office | High Bay Lighting | New | building | 486 | 4.1% | 0.04 | 8 | \$3,091 | 0% | 0.0 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 365 W High Pressure Sodium Fixture | Office | High Bay Lighting | Early | Fixture | 938 | 67% | 0.2 | 13 | \$960 | 95% | 0.5 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 1075 W Mercury Vapor Fixture | Office | High Bay Lighting | Early | Fixture | 2,762 | 89% | 0.6 | 13 | \$960 | 95% | 1.9 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 295 W Metal Halide Fixture | Office | High Bay Lighting | Early | Fixture | 758 | 59% | 0.1 | 13 | \$960 | 95% | 0.3 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 365 W High Pressure Sodium Fixture | Office | High Bay Lighting | New | Fixture | 713 | 67% | 0.1 | 13 | \$480 | 95% | 0.7 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 1075 W Mercury Vapor Fixture | Office | High Bay Lighting | New | Fixture | 2,099 | 89% | 0.5 | 13 | \$491 | 95% | 2.8 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 295 W Metal Halide Fixture | Office | High Bay Lighting | New | Fixture | 576 | 59% | 0.08 | 13 | \$406 | 95% | 0.6 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 365 W High Pressure Sodium Fixture | Office | High Bay Lighting | ROB | Fixture | 938 | 67% | 0.2 | 13 | \$480 | 95% | 1.0 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 1075 W Mercury Vapor Fixture | Office | High Bay Lighting | ROB | Fixture | 2,762 | 89% | 0.6 | 13 | \$491 | 95% | 3.7 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 295 W Metal Halide Fixture | Office | High Bay Lighting | ROB | Fixture | 758 | 59% | 0.1 | 13 | \$406 | 95% | 0.8 |
| DLC | Occupancy Sensor | Lighting w/ No Controls | Office | High Bay Lighting | Existing | building | 486 | 24% | 0.2 | 8 | \$946 | 12% | 0.2 |
| DLC | Occupancy Sensor | Lighting w/ No Controls | Office | High Bay Lighting | New | building | 486 | 6.9% | 0.07 | 8 | \$946 | 0% | 0.1 |
| DLC | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Office | High Bay Lighting | Existing | building | 486 | 28% | 0.3 | 8 | \$3,091 | 12% | 0.1 |
| DLC | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Office | High Bay Lighting | New | building | 486 | 4.0% | 0.04 | 8 | \$3,091 | 0% | 0.0 |
| DLC | Time Clock Control | Lighting w/ No Controls | Office | High Bay Lighting | Existing | building | 486 | 28% | 0.3 | 8 | \$628 | 13% | 0.3 |
| DLC | Time Clock Control | Lighting w/ No Controls | Office | High Bay Lighting | New | building | 486 | 4.1% | 0.04 | 8 | \$628 | 0% | 0.0 |
| DLC | Auto Off Time Switch | Lighting w/ No Controls | Office | Lin. Fluor. Lighting | Existing | building | 8,848 | 24% | 0.2 | 8 | \$628 | 13% | 1.2 |
| DLC | Auto Off Time Switch | Lighting w/ No Controls | Office | Lin. Fluor. Lighting | New | building | 8,848 | 6.9% | 0.07 | 8 | \$628 | 0% | 0.4 |
| DLC | Central Lighting Control System | Lighting w/ No Controls | Office | Lin. Fluor. Lighting | Existing | building | 8,848 | 38% | 0.4 | 8 | \$628 | 12% | 1.9 |
| DLC | Central Lighting Control System | Lighting w/ No Controls | Office | Lin. Fluor. Lighting | New | building | 8,848 | 14% | 0.1 | 8 | \$628 | 12% | 0.7 |
| DLC | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Office | Lin. Fluor. Lighting | New | building | 8,848 | 10% | 0.1 | 15 | \$28,258 | 32% | 0.0 |
| DLC | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Office | Lin. Fluor. Lighting | New | building | 8,848 | 15% | 0.2 | 15 | \$70,645 | 32% | 0.0 |
| DLC | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Office | Lin. Fluor. Lighting | New | building | 8,848 | 30% | 0.3 | 15 | \$101,258 | 32% | 0.0 |
| DLC | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Office | Lin. Fluor. Lighting | Early | Lamp | 172 | 38% | 0.01 | 12 | \$7.3 | 94% | 5.8 |
| DLC | Indoor Daylight Sensors | Lighting w/ No Controls | Office | Lin. Fluor. Lighting | Existing | building | 8,848 | 28% | 0.3 | 8 | \$3,091 | 13% | 0.3 |
| DLC | Indoor Daylight Sensors | Lighting w/ No Controls | Office | Lin. Fluor. Lighting | New | building | 8,848 | 4.1% | 0.04 | 8 | \$3,091 | 0% | 0.0 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 28W T8 Lamp, Normal Ballast Factor | Office | Lin. Fluor. Lighting | Early | Lamp | 61 | 19% | 0.00 | 15 | \$35 | 94% | 0.3 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 40W T12 Lamp, Magnetic Ballast | Office | Lin. Fluor. Lighting | Early | Lamp | 134 | 63% | 0.02 | 15 | \$35 | 94% | 2.1 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 28W T5 Lamp, Normal Ballast Factor | Office | Lin. Fluor. Lighting | Early | Lamp | 75 | 34% | 0.01 | 15 | \$35 | 94% | 0.6 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 32W T8 Lamp, Normal Ballast Factor | Office | Lin. Fluor. Lighting | Early | Lamp | 73 | 32% | 0.01 | 15 | \$35 | 94% | 0.6 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 28W T8 Lamp, Normal Ballast Factor | Office | Lin. Fluor. Lighting | New | Lamp | 47 | 19% | 0.00 | 15 | \$28 | 94% | 0.3 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 32W T8 Lamp, Normal Ballast Factor | Office | Lin. Fluor. Lighting | New | Lamp | 56 | 32% | 0.00 | 15 | \$29 | 94% | 0.5 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 28W T5 Lamp, Normal Ballast Factor | Office | Lin. Fluor. Lighting | New | Lamp | 57 | 34% | 0.00 | 15 | \$22 | 94% | 0.8 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 32W T8 Lamp, Normal Ballast Factor | Office | Lin. Fluor. Lighting | New | Lamp | 56 | 32% | 0.00 | 15 | \$29 | 94% | 0.5 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 28W T8 Lamp, Normal Ballast Factor | Office | Lin. Fluor. Lighting | ROB | Lamp | 61 | 19% | 0.00 | 15 | \$28 | 94% | 0.4 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 32W T8 Lamp, Normal Ballast Factor | Office | Lin. Fluor. Lighting | ROB | Lamp | 73 | 32% | 0.01 | 15 | \$29 | 94% | 0.7 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 28W T5 Lamp, Normal Ballast Factor | Office | Lin. Fluor. Lighting | ROB | Lamp | 75 | 34% | 0.01 | 15 | \$22 | 94% | 1.0 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 32W T8 Lamp, Normal Ballast Factor | Office | Lin. Fluor. Lighting | ROB | Lamp | 73 | 32% | 0.01 | 15 | \$29 | 94% | 0.7 |
| DLC | Occupancy Sensor | Lighting w/ No Controls | Office | Lin. Fluor. Lighting | Existing | building | 8,848 | 24% | 0.2 | 8 | \$946 | 13% | 0.8 |
| DLC | Occupancy Sensor | Lighting w/ No Controls | Office | Lin. Fluor. Lighting | New | building | 8,848 | 7.0% | 0.07 | 8 | \$946 | 0% | 0.2 |
| DLC | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Office | Lin. Fluor. Lighting | Existing | building | 8,848 | 28% | 0.3 | 8 | \$3,091 | 12% | 0.3 |
| DLC | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Office | Lin. Fluor. Lighting | New | building | 8,848 | 4.1% | 0.04 | 8 | \$3,091 | 0% | 0.0 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 40W T12 w/ Magnetic Ballast | Office | Lin. Fluor. Lighting | Early | Lamp | 172 | 54% | 0.02 | 12 | \$9.1 | 94% | 6.6 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Office | Lin. Fluor. Lighting | Early | Lamp | 110 | 28% | 0.01 | 12 | \$9.1 | 24% | 2.2 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Office | Lin. Fluor. Lighting | Early | Lamp | 107 | 26% | 0.01 | 12 | \$9.1 | 94% | 2.0 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Office | Lin. Fluor. Lighting | New | Lamp | 81 | 26% | 0.00 | 12 | \$2.5 | 94% | 5.4 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Office | Lin. Fluor. Lighting | New | Lamp | 81 | 26% | 0.00 | 12 | \$2.5 | 94% | 5.4 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Office | Lin. Fluor. Lighting | New | Lamp | 84 | 28% | 0.00 | 12 | \$2.5 | 24% | 6.1 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Office | Lin. Fluor. Lighting | New | Lamp | 81 | 26% | 0.00 | 12 | \$2.5 | 94% | 5.4 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Office | Lin. Fluor. Lighting | ROB | Lamp | 107 | 26% | 0.01 | 12 | \$2.5 | 94% | 7.1 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Office | Lin. Fluor. Lighting | ROB | Lamp | 107 | 26% | 0.01 | 12 | \$2.5 | 94% | 7.1 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Office | Lin. Fluor. Lighting | ROB | Lamp | 110 | 28% | 0.01 | 12 | \$2.5 | 24% | 8.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|--|---------|---------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Office | Motors | Early | motor | 89,497 | 1.8% | 0.2 | 15 | \$4,430 | 70% | 0.3 |
| DLC | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Office | Motors | Early | motor | 89,497 | 1.8% | 0.2 | 15 | \$4,430 | 70% | 0.3 |
| DLC | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Office | Motors | Early | motor | 89,497 | 1.8% | 0.2 | 15 | \$4,430 | 70% | 0.3 |
| DLC | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Office | Motors | Early | motor | 89,497 | 1.8% | 0.2 | 15 | \$4,430 | 70% | 0.3 |
| DLC | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Office | Motors | New | motor | 88,349 | 0.5% | 0.06 | 15 | \$431 | 70% | 0.8 |
| DLC | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Office | Motors | New | motor | 88,349 | 0.5% | 0.06 | 15 | \$431 | 70% | 0.8 |
| DLC | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Office | Motors | New | motor | 88,349 | 0.5% | 0.06 | 15 | \$431 | 70% | 0.8 |
| DLC | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Office | Motors | New | motor | 88,349 | 0.5% | 0.07 | 15 | \$431 | 70% | 0.8 |
| DLC | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Office | Motors | ROB | motor | 88,349 | 0.5% | 0.06 | 15 | \$431 | 70% | 0.8 |
| DLC | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Office | Motors | ROB | motor | 88,349 | 0.5% | 0.06 | 15 | \$431 | 70% | 0.8 |
| DLC | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Office | Motors | ROB | motor | 88,349 | 0.5% | 0.07 | 15 | \$431 | 70% | 0.8 |
| DLC | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Office | Motors | ROB | motor | 88,349 | 0.5% | 0.06 | 15 | \$431 | 70% | 0.8 |
| DLC | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Office | Motors | ROB | motor | 88,349 | 0.5% | 0.06 | 15 | \$431 | 70% | 0.8 |
| DLC | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Office | Motors | ROB | motor | 88,349 | 0.5% | 0.07 | 15 | \$431 | 70% | 0.8 |
| DLC | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Office | Motors | Early | motor | 11,811 | 2.9% | 0.04 | 15 | \$802 | 83% | 0.3 |
| DLC | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Office | Motors | Early | motor | 11,811 | 2.9% | 0.04 | 15 | \$802 | 83% | 0.3 |
| DLC | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Office | Motors | Early | motor | 11,811 | 2.9% | 0.05 | 15 | \$802 | 83% | 0.3 |
| DLC | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Office | Motors | Early | motor | 11,811 | 2.9% | 0.04 | 15 | \$802 | 83% | 0.3 |
| DLC | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Office | Motors | New | motor | 11,529 | 0.5% | 0.01 | 15 | \$123 | 83% | 0.4 |
| DLC | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Office | Motors | New | motor | 11,529 | 0.5% | 0.01 | 15 | \$123 | 83% | 0.4 |
| DLC | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Office | Motors | New | motor | 11,529 | 0.5% | 0.01 | 15 | \$123 | 83% | 0.4 |
| DLC | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Office | Motors | New | motor | 11,529 | 0.5% | 0.01 | 15 | \$123 | 83% | 0.4 |
| DLC | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Office | Motors | ROB | motor | 11,529 | 0.5% | 0.01 | 15 | \$123 | 83% | 0.4 |
| DLC | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Office | Motors | ROB | motor | 11,529 | 0.5% | 0.01 | 15 | \$123 | 83% | 0.4 |
| DLC | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Office | Motors | ROB | motor | 11,529 | 0.5% | 0.01 | 15 | \$123 | 83% | 0.4 |
| DLC | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Office | Motors | ROB | motor | 11,529 | 0.5% | 0.01 | 15 | \$123 | 83% | 0.4 |
| DLC | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Office | Motors | ROB | motor | 11,529 | 0.5% | 0.01 | 15 | \$123 | 83% | 0.4 |
| DLC | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Office | Motors | Early | motor | 111,354 | 1.3% | 0.2 | 15 | \$3,955 | 61% | 0.3 |
| DLC | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Office | Motors | Early | motor | 111,354 | 1.3% | 0.2 | 15 | \$3,955 | 61% | 0.3 |
| DLC | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Office | Motors | Early | motor | 111,354 | 1.3% | 0.2 | 15 | \$3,955 | 61% | 0.3 |
| DLC | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Office | Motors | Early | motor | 111,354 | 1.3% | 0.2 | 15 | \$3,955 | 61% | 0.3 |
| DLC | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Office | Motors | New | motor | 110,436 | 0.5% | 0.08 | 15 | \$554 | 61% | 0.7 |
| DLC | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Office | Motors | New | motor | 110,436 | 0.5% | 0.07 | 15 | \$554 | 61% | 0.7 |
| DLC | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Office | Motors | New | motor | 110,436 | 0.5% | 0.07 | 15 | \$554 | 61% | 0.7 |
| DLC | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Office | Motors | New | motor | 110,436 | 0.5% | 0.08 | 15 | \$554 | 61% | 0.7 |
| DLC | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Office | Motors | ROB | motor | 110,436 | 0.5% | 0.07 | 15 | \$554 | 61% | 0.7 |
| DLC | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Office | Motors | ROB | motor | 110,436 | 0.5% | 0.07 | 15 | \$554 | 61% | 0.7 |
| DLC | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Office | Motors | ROB | motor | 110,436 | 0.5% | 0.07 | 15 | \$554 | 61% | 0.7 |
| DLC | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Office | Motors | ROB | motor | 110,436 | 0.5% | 0.08 | 15 | \$554 | 61% | 0.7 |
| DLC | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Office | Motors | ROB | motor | 110,436 | 0.5% | 0.07 | 15 | \$554 | 61% | 0.7 |
| DLC | CO sensors for parking garage exhaust fans | No CO Sensors | Office | Motors | Existing | building | 543 | 25% | 0.3 | 8 | \$64 | 4% | 3.0 |
| DLC | CO sensors for parking garage exhaust fans | No CO Sensors | Office | Motors | New | building | 543 | 25% | 0.3 | 8 | \$64 | 4% | 3.0 |
| DLC | demand controlled ventilation | Absence of Demand Controlled Ventilation | Office | Motors | Early | measure | 5,088 | 5.9% | 0.03 | 10 | \$41,922 | 92% | 0.0 |
| DLC | demand controlled ventilation | Office building thermostat | Office | Motors | New | measure | 5,088 | 5.9% | 0.03 | 10 | \$31,300 | 92% | 0.0 |
| DLC | demand controlled ventilation | Office building thermostat | Office | Motors | ROB | measure | 5,088 | 5.9% | 0.03 | 10 | \$31,300 | 92% | 0.0 |
| DLC | Downsizing motor during retrofit | Larger hp standard motor | Office | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 25.0 |
| DLC | Downsizing motor during retrofit | Larger hp standard motor | Office | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 25.5 |
| DLC | Downsizing motor during retrofit | Larger hp standard motor | Office | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 25.9 |
| DLC | Downsizing motor during retrofit | Larger hp standard motor | Office | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 26.7 |
| DLC | Downsizing motor during retrofit | Larger hp standard motor | Office | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 27.0 |
| DLC | Downsizing motor during retrofit | Larger hp standard motor | Office | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 24.7 |
| DLC | Downsizing motor during retrofit | Larger hp standard motor | Office | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 25.4 |
| DLC | Downsizing motor during retrofit | Larger hp standard motor | Office | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 25.7 |
| DLC | Downsizing motor during retrofit | Larger hp standard motor | Office | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 26.5 |
| DLC | Downsizing motor during retrofit | Larger hp standard motor | Office | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 27.3 |
| DLC | Escalator Motor Controller | Constant power control | Office | Motors | New | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 22% | 6.9 |
| DLC | Escalator Motor Controller | Constant power control | Office | Motors | ROB | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 22% | 6.9 |
| DLC | Fan Motor - correct sizing | Incorrect Fan Motor Sizing | Office | Motors | ROB | measure | 5,088 | 2.9% | 0.02 | 15 | \$50 | 92% | 2.1 |
| DLC | Variable Speed Drive Control, 15HP | Existing Motors w/out VSD Drive | Office | Motors | Early | motor | 23,058 | 70% | 2.4 | 15 | \$731 | 86% | 16.5 |
| DLC | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Office | Motors | New | motor | 22,562 | 71% | 2.4 | 15 | \$731 | 86% | 16.4 |
| DLC | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Office | Motors | ROB | motor | 22,562 | 72% | 2.4 | 15 | \$731 | 86% | 16.5 |
| DLC | Variable Speed Drive Control, 40HP | Existing Motors w/out VSD Drive | Office | Motors | Early | motor | 60,166 | 71% | 6.3 | 15 | \$4,666 | 86% | 6.8 |
| DLC | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Office | Motors | New | motor | 59,463 | 72% | 6.3 | 15 | \$4,666 | 86% | 6.8 |
| DLC | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Office | Motors | ROB | motor | 59,463 | 72% | 6.3 | 15 | \$4,666 | 86% | 6.8 |
| DLC | Variable Speed Drive Control, 5HP | Existing Motors w/out VFD Drive | Office | Motors | Early | motor | 7,993 | 71% | 0.8 | 15 | \$2,243 | 86% | 1.9 |
| DLC | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Office | Motors | New | motor | 7,815 | 72% | 0.8 | 15 | \$2,243 | 86% | 1.9 |
| DLC | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Office | Motors | ROB | motor | 7,815 | 72% | 0.8 | 15 | \$2,243 | 86% | 1.9 |
| DLC | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Office | Motors | Early | motor | 4,390 | 26% | 0.1 | 15 | \$268 | 13% | 3.0 |
| DLC | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Office | Motors | New | motor | 4,390 | 26% | 0.1 | 15 | \$268 | 13% | 3.0 |
| DLC | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Office | Motors | ROB | motor | 4,390 | 26% | 0.1 | 15 | \$268 | 13% | 3.0 |
| DLC | VFD on Chilled Water Pump | Motor w/out VFD Drive | Office | Motors | Early | motor | 16,590 | 55% | 2.7 | 15 | \$2,903 | 86% | 2.8 |
| DLC | VFD on Chilled Water Pump | Motor w/out VFD Drive | Office | Motors | New | motor | 16,280 | 55% | 2.7 | 15 | \$2,843 | 86% | 2.8 |
| DLC | VFD on Chilled Water Pump | Motor w/out VFD Drive | Office | Motors | ROB | motor | 16,280 | 55% | 2.7 | 15 | \$2,843 | 86% | 2.8 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|--|---------|---------------------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | VFD on Condenser Water Pump | Motor w/out VFD Drive | Office | Motors | Early | motor | 18,641 | 32% | 3.2 | 15 | \$2,903 | 86% | 2.3 |
| DLC | VFD on Condenser Water Pump | Motor w/out VFD Drive | Office | Motors | New | motor | 18,292 | 33% | 3.1 | 15 | \$2,843 | 86% | 2.3 |
| DLC | VFD on Condenser Water Pump | Motor w/out VFD Drive | Office | Motors | ROB | motor | 18,292 | 33% | 3.1 | 15 | \$2,843 | 86% | 2.3 |
| DLC | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Office | Motors | Early | motor | 27,718 | 56% | 0.00 | 15 | \$2,903 | 86% | 3.2 |
| DLC | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Office | Motors | New | motor | 27,199 | 57% | 0.00 | 15 | \$2,843 | 86% | 3.3 |
| DLC | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Office | Motors | ROB | motor | 27,199 | 57% | 0.00 | 15 | \$2,843 | 86% | 3.3 |
| DLC | VFD on HVAC Fan | Motor w/out VFD | Office | Motors | Early | motor | 18,724 | 70% | 3.4 | 15 | \$2,903 | 86% | 3.9 |
| DLC | VFD on HVAC Fan | Motor w/out VFD | Office | Motors | New | motor | 18,373 | 71% | 3.3 | 15 | \$2,843 | 86% | 3.9 |
| DLC | VFD on HVAC Fan | Motor w/out VFD | Office | Motors | ROB | motor | 18,373 | 71% | 3.3 | 15 | \$2,843 | 86% | 3.9 |
| DLC | Elevators | Std. Eff Elevator | Office | Other | ROB | measure | 89,016 | 2.8% | 0.4 | 15 | \$1,228 | 63% | 1.6 |
| DLC | Variable Speed Drives on Process Equipment | Constant speed control | Office | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 11.5 |
| DLC | Variable Speed Drives on Process Equipment | Constant speed control | Office | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 11.5 |
| DLC | 9W Exit Sign Retrofit: CFL replacing Incandescent | One 23W Single Sided Incandescent Exit Sign | Office | Other Int. Lighting | Early | exit sign | 140 | 42% | 0.01 | 15 | \$48 | 22% | 0.9 |
| DLC | Auto Off Time Switch | Lighting w/ No Controls | Office | Other Int. Lighting | Existing | building | 7,383 | 24% | 0.2 | 8 | \$628 | 13% | 1.1 |
| DLC | Auto Off Time Switch | Lighting w/ No Controls | Office | Other Int. Lighting | New | building | 7,383 | 7.0% | 0.07 | 8 | \$628 | 0% | 0.3 |
| DLC | Central Lighting Control System | Lighting w/ No Controls | Office | Other Int. Lighting | Existing | building | 7,383 | 38% | 0.4 | 8 | \$628 | 13% | 1.7 |
| DLC | Central Lighting Control System | Lighting w/ No Controls | Office | Other Int. Lighting | New | building | 7,383 | 14% | 0.1 | 8 | \$628 | 13% | 0.6 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 40W Incandescent Bulb | Office | Other Int. Lighting | Early | lamp | 141 | 87% | 0.03 | 11 | \$30 | 14% | 2.6 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Office | Other Int. Lighting | Early | lamp | 101 | 81% | 0.02 | 11 | \$30 | 11% | 1.7 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Office | Other Int. Lighting | New | lamp | 77 | 81% | 0.02 | 11 | \$21 | 14% | 1.9 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Office | Other Int. Lighting | New | lamp | 77 | 81% | 0.02 | 11 | \$23 | 14% | 1.7 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Office | Other Int. Lighting | New | lamp | 77 | 81% | 0.02 | 11 | \$22 | 11% | 1.8 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Office | Other Int. Lighting | ROB | lamp | 101 | 81% | 0.02 | 11 | \$21 | 14% | 2.4 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Office | Other Int. Lighting | ROB | lamp | 101 | 81% | 0.02 | 11 | \$23 | 14% | 2.3 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Office | Other Int. Lighting | ROB | lamp | 101 | 81% | 0.02 | 11 | \$22 | 11% | 2.4 |
| DLC | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Office | Other Int. Lighting | Early | lamp | 141 | 75% | 0.03 | 4 | \$73 | 24% | 0.3 |
| DLC | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Office | Other Int. Lighting | New | fixture | 154 | 65% | 0.02 | 13 | \$29 | 28% | 2.6 |
| DLC | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Office | Other Int. Lighting | New | lamp | 77 | 65% | 0.01 | 4 | \$29 | 28% | 0.4 |
| DLC | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Office | Other Int. Lighting | ROB | fixture | 203 | 65% | 0.03 | 13 | \$29 | 24% | 3.4 |
| DLC | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Office | Other Int. Lighting | ROB | lamp | 101 | 65% | 0.02 | 4 | \$29 | 24% | 0.5 |
| DLC | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Office | Other Int. Lighting | Early | lamp | 141 | 75% | 0.03 | 4 | \$3.2 | 24% | 7.5 |
| DLC | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Office | Other Int. Lighting | New | lamp | 77 | 65% | 0.01 | 4 | \$1.8 | 24% | 6.4 |
| DLC | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Office | Other Int. Lighting | ROB | lamp | 101 | 65% | 0.02 | 4 | \$1.8 | 24% | 8.4 |
| DLC | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Office | Other Int. Lighting | ROB | lamp | 101 | 65% | 0.02 | 4 | \$1.8 | 24% | 8.4 |
| DLC | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Office | Other Int. Lighting | New | building | 7,383 | 10% | 0.1 | 15 | \$28,258 | 32% | 0.0 |
| DLC | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Office | Other Int. Lighting | New | building | 7,383 | 15% | 0.2 | 15 | \$70,645 | 32% | 0.0 |
| DLC | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Office | Other Int. Lighting | New | building | 7,383 | 30% | 0.3 | 15 | \$101,258 | 32% | 0.0 |
| DLC | Indoor Daylight Sensors | Lighting w/ No Controls | Office | Other Int. Lighting | Existing | building | 7,383 | 28% | 0.3 | 8 | \$3,091 | 13% | 0.3 |
| DLC | Indoor Daylight Sensors | Lighting w/ No Controls | Office | Other Int. Lighting | New | building | 7,383 | 4.1% | 0.04 | 8 | \$3,091 | 0% | 0.0 |
| DLC | LED Exit Signs Single-sided (5W) | Existing Single-Sided Exit Signs (Average: 16 W) | Office | Other Int. Lighting | Early | sign | 153 | 87% | 0.02 | 15 | \$48 | 16% | 2.0 |
| DLC | LED Exit Signs Single-sided (5W) | One 9W Single-Sided CFL Exit Sign | Office | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 2.2 |
| DLC | LED Exit Signs Single-sided (5W) | One 9W Single-Sided CFL Exit Sign | Office | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 2.2 |
| DLC | LED Task Lighting/Screw-In (10W) | 1 15W CFL bulb | Office | Other Int. Lighting | Early | lamp | 22 | 33% | 0.00 | 15 | \$9.6 | 24% | 0.6 |
| DLC | LED Task Lighting/Screw-In (10W) | 1 60W Incandescent Bulb | Office | Other Int. Lighting | Early | lamp | 88 | 83% | 0.02 | 15 | \$9.6 | 24% | 6.2 |
| DLC | LED Task Lighting/Screw-In (10W) | 1 43W EISA Compliant bulb | Office | Other Int. Lighting | New | lamp | 48 | 77% | 0.01 | 15 | \$7.9 | 24% | 3.8 |
| DLC | LED Task Lighting/Screw-In (10W) | 1 43W EISA Compliant bulb | Office | Other Int. Lighting | New | lamp | 48 | 77% | 0.01 | 15 | \$7.9 | 24% | 3.8 |
| DLC | LED Task Lighting/Screw-In (10W) | 1 43W EISA Compliant bulb | Office | Other Int. Lighting | ROB | lamp | 63 | 77% | 0.01 | 15 | \$7.9 | 24% | 4.9 |
| DLC | LED Task Lighting/Screw-In (10W) | 1 43W EISA Compliant bulb | Office | Other Int. Lighting | ROB | lamp | 63 | 77% | 0.01 | 15 | \$7.9 | 24% | 4.9 |
| DLC | Occupancy Sensor | Lighting w/ No Controls | Office | Other Int. Lighting | Existing | building | 7,383 | 24% | 0.2 | 8 | \$946 | 12% | 0.7 |
| DLC | Occupancy Sensor | Lighting w/ No Controls | Office | Other Int. Lighting | New | building | 7,383 | 7.0% | 0.07 | 8 | \$946 | 0% | 0.2 |
| DLC | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Office | Other Int. Lighting | Existing | building | 7,383 | 28% | 0.3 | 8 | \$3,091 | 12% | 0.3 |
| DLC | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Office | Other Int. Lighting | New | building | 7,383 | 4.1% | 0.04 | 8 | \$3,091 | 0% | 0.0 |
| DLC | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Office | Other Int. Lighting | Early | exit sign | 140 | 100% | 0.02 | 15 | \$173 | 26% | 0.6 |
| DLC | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Office | Other Int. Lighting | New | exit sign | 81 | 100% | 0.01 | 15 | \$148 | 31% | 0.4 |
| DLC | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Office | Other Int. Lighting | ROB | exit sign | 81 | 100% | 0.01 | 15 | \$148 | 26% | 0.4 |
| DLC | Time Clock Control | Lighting w/ No Controls | Office | Other Int. Lighting | Existing | building | 7,383 | 28% | 0.3 | 8 | \$628 | 13% | 1.2 |
| DLC | Time Clock Control | Lighting w/ No Controls | Office | Other Int. Lighting | New | building | 7,383 | 4.1% | 0.04 | 8 | \$628 | 0% | 0.2 |
| DLC | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Office | Plug Load | Existing | building | 5,182 | 46% | 0.5 | 5 | \$189 | 4% | 3.2 |
| DLC | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Office | Plug Load | New | building | 5,182 | 46% | 0.5 | 5 | \$189 | 4% | 3.2 |
| DLC | Data Center - Server/Storage Consolidation | No Consolidation | Office | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 36% | 0.0 |
| DLC | Data Center - Server/Storage Consolidation | No Consolidation | Office | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 36% | 0.0 |
| DLC | Data Center - Server/Storage Virtualization | No Virtualization | Office | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 36% | 0.0 |
| DLC | Data Center - Server/Storage Virtualization | No Virtualization | Office | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 36% | 0.0 |
| DLC | Energy Star - Scanners | Std Scanner | Office | Plug Load | New | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 88% | 0.1 |
| DLC | Energy Star - Scanners | Std Scanner | Office | Plug Load | ROB | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 88% | 0.1 |
| DLC | Energy Star Battery Charging System (for small cordless products) | Std. Battery Charging System | Office | Plug Load | ROB | measure | 593 | 2.3% | 1.3 | 5 | \$65 | 4% | 7.6 |
| DLC | Energy Star Dishwasher | Existing Dishwasher units | Office | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,580 | 1% | 1.1 |
| DLC | Energy Star Dishwasher | Standard Dishwasher unit | Office | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 1% | 3.5 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|---|---------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Energy Star Dishwasher | Standard Dishwasher unit | Office | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 1% | 3.5 |
| DLC | Energy Star External Power Adapter | Std. Power Adapter | Office | Plug Load | New | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| DLC | Energy Star External Power Adapter | Std. Power Adapter | Office | Plug Load | ROB | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| DLC | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Office | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 17% | 0.2 |
| DLC | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Office | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.1 |
| DLC | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Office | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.1 |
| DLC | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Office | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 9% | 0.7 |
| DLC | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Office | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.5 |
| DLC | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Office | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.5 |
| DLC | ENERGY STAR® Copiers | 10% Less Efficient Copier | Office | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 80% | 0.0 |
| DLC | ENERGY STAR® Copiers | One Conventional Copier | Office | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 80% | 0.0 |
| DLC | ENERGY STAR® Copiers | One Conventional Copier | Office | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 80% | 0.0 |
| DLC | ENERGY STAR® desktop | Standard computer | Office | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 87% | 0.1 |
| DLC | ENERGY STAR® desktop | Standard computer | Office | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 87% | 2.1 |
| DLC | ENERGY STAR® desktop | Standard computer | Office | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 87% | 2.1 |
| DLC | ENERGY STAR® Fax | 10% Less Efficient Fax | Office | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 89% | 0.0 |
| DLC | ENERGY STAR® Fax | One Conventional Fax | Office | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 89% | 0.1 |
| DLC | ENERGY STAR® Fax | One Conventional Fax | Office | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 89% | 0.1 |
| DLC | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Office | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 89% | 0.0 |
| DLC | ENERGY STAR® Monitors | One Conventional Monitor | Office | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 89% | 0.0 |
| DLC | ENERGY STAR® Monitors | One Conventional Monitor | Office | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 89% | 0.0 |
| DLC | ENERGY STAR® Printers | 10% Less Efficient Printer | Office | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 89% | 0.0 |
| DLC | ENERGY STAR® Printers | One Conventional Printer | Office | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 89% | 0.3 |
| DLC | ENERGY STAR® Printers | One Conventional Printer | Office | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$130 | 89% | 0.3 |
| DLC | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Office | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 87% | 0.1 |
| DLC | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Office | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 87% | 0.8 |
| DLC | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Office | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 87% | 0.8 |
| DLC | ENERGY STAR® Televisions | 10% Less Efficient Television | Office | Plug Load | Early | Unit | 179 | 38% | 0.01 | 6 | \$672 | 85% | 0.0 |
| DLC | ENERGY STAR® Televisions | One Conventional Television | Office | Plug Load | New | Unit | 163 | 32% | 0.01 | 6 | \$206 | 85% | 0.1 |
| DLC | ENERGY STAR® Televisions | One Conventional Television | Office | Plug Load | ROB | Unit | 163 | 32% | 0.01 | 6 | \$206 | 85% | 0.1 |
| DLC | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Office | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 81% | 0.3 |
| DLC | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Office | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 81% | 0.7 |
| DLC | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Office | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 81% | 0.7 |
| DLC | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Office | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 51% | 0.3 |
| DLC | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Office | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 51% | 0.3 |
| DLC | Network PC Power Management | No PC Power Management | Office | Plug Load | Existing | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 16.6 |
| DLC | Network PC Power Management | No PC Power Management | Office | Plug Load | New | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 16.6 |
| DLC | Smart Strip Plug Outlets | Standard plug strip/outlet | Office | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.2 |
| DLC | Smart Strip Plug Outlets | Standard plug strip/outlet | Office | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.2 |
| DLC | Smart Strip Plug Outlets | Standard plug strip/outlet | Office | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| DLC | Smart Strip Plug Outlets | Standard plug strip/outlet | Office | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| DLC | Smart Strip Plug Outlets | Standard plug strip/outlet | Office | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| DLC | Smart Strip Plug Outlets | Standard plug strip/outlet | Office | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| DLC | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Office | Plug Load | Existing | building | 5,182 | 46% | 0.5 | 5 | \$180 | 3% | 3.3 |
| DLC | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Office | Plug Load | New | building | 5,182 | 46% | 0.5 | 5 | \$180 | 3% | 3.3 |
| DLC | Auto Closer on Refrigerator Door | Door w/out Autocloser | Office | Refrigeration | Existing | building | 1,271 | 55% | 0.5 | 8 | \$747 | 40% | 0.7 |
| DLC | Auto Closer on Refrigerator Door | Door w/out Autocloser | Office | Refrigeration | Existing | building | 3,662 | 19% | 0.2 | 8 | \$476 | 40% | 0.7 |
| DLC | Auto Closer on Refrigerator Door | Door w/out Autocloser | Office | Refrigeration | New | building | 1,271 | 55% | 0.5 | 8 | \$747 | 40% | 0.7 |
| DLC | Auto Closer on Refrigerator Door | Door w/out Autocloser | Office | Refrigeration | New | building | 3,662 | 19% | 0.2 | 8 | \$476 | 40% | 0.7 |
| DLC | Door Gasket- Freezer | Door w/out Gasket | Office | Refrigeration | Existing | building | 1,271 | 30% | 0.3 | 4 | \$77 | 29% | 1.9 |
| DLC | Door Gasket- Freezer | Door w/out Gasket | Office | Refrigeration | New | building | 1,271 | 31% | 0.3 | 4 | \$77 | 29% | 2.0 |
| DLC | Door Gasket- Refrigerator | Door w/out Gasket | Office | Refrigeration | Existing | building | 3,662 | 6.1% | 0.06 | 4 | \$66 | 45% | 0.8 |
| DLC | Door Gasket- Refrigerator | Door w/out Gasket | Office | Refrigeration | New | building | 3,662 | 6.1% | 0.06 | 4 | \$66 | 45% | 0.8 |
| DLC | eCube | Refrigeration unit w/out eCube | Office | Refrigeration | Existing | building | 3,662 | 15% | 0.2 | 15 | \$38 | 57% | 12.5 |
| DLC | eCube | Refrigeration unit w/out eCube | Office | Refrigeration | New | building | 3,662 | 15% | 0.2 | 15 | \$38 | 57% | 12.5 |
| DLC | Efficient compressor motor | Base Refrigeration System - Grocery | Office | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.3 |
| DLC | Efficient compressor motor | Base Refrigeration System - Grocery | Office | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.3 |
| DLC | Efficient compressor motor | Base Refrigeration System - Grocery | Office | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.3 |
| DLC | Efficient compressor motor | Base Refrigeration System - Grocery | Office | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.3 |
| DLC | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Office | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.6 |
| DLC | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Office | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| DLC | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Office | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| DLC | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Office | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.3 |
| DLC | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Office | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.8 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|---|---------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Office | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.8 |
| DLC | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Office | Refrigeration | Existing | building | 3,662 | 3.5% | 0.04 | 10 | \$369 | 77% | 0.2 |
| DLC | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Office | Refrigeration | New | building | 3,662 | 3.5% | 0.04 | 10 | \$369 | 77% | 0.2 |
| DLC | Floating head pressure controller | System w/out FHPC | Office | Refrigeration | Existing | building | 1,271 | 18% | 0.05 | 15 | \$8,682 | 41% | 0.0 |
| DLC | Floating head pressure controller | System w/out FHPC | Office | Refrigeration | Existing | building | 3,662 | 2.2% | 0.02 | 15 | \$8,682 | 41% | 0.0 |
| DLC | Floating head pressure controller | System w/out FHPC | Office | Refrigeration | New | building | 1,271 | 18% | 0.05 | 15 | \$8,682 | 41% | 0.0 |
| DLC | Floating head pressure controller | System w/out FHPC | Office | Refrigeration | New | building | 3,662 | 2.2% | 0.02 | 15 | \$8,682 | 41% | 0.0 |
| DLC | High Efficiency Commercial Freezer | Std. Commercial Freezer | Office | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 86% | 0.4 |
| DLC | High Efficiency Commercial Freezer | Std. Commercial Freezer | Office | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 4.4 |
| DLC | High Efficiency Commercial Freezer | Std. Commercial Freezer | Office | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 4.4 |
| DLC | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Office | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 2% | 0.1 |
| DLC | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Office | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$406 | 2% | 1.0 |
| DLC | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Office | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$406 | 2% | 1.0 |
| DLC | High Efficiency Ice Maker | Exisiting Standard Efficiency Ice Maker in Pennsylvania | Office | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 73% | 0.2 |
| DLC | High Efficiency Ice Maker | Standard code minimum Ice Maker | Office | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| DLC | High Efficiency Ice Maker | Standard code minimum Ice Maker | Office | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| DLC | High Efficiency Ice Making Head | Standard Ice Making Head | Office | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 4.1 |
| DLC | High Efficiency Ice Making Head | Standard Ice Making Head | Office | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 4.1 |
| DLC | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Office | Refrigeration | Early | Fixture | 373 | 56% | 0.02 | 8 | \$448 | 47% | 0.2 |
| DLC | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Office | Refrigeration | New | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 47% | 0.3 |
| DLC | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Office | Refrigeration | ROB | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 47% | 0.3 |
| DLC | Quick acting freezer doors | Std. Freezer Doors | Office | Refrigeration | Existing | building | 1,271 | 13% | 0.1 | 10 | \$404 | 56% | 0.4 |
| DLC | Quick acting freezer doors | Std. Freezer Doors | Office | Refrigeration | New | building | 1,271 | 13% | 0.1 | 10 | \$404 | 56% | 0.4 |
| DLC | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Office | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 30% | 0.5 |
| DLC | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Office | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.8 |
| DLC | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Office | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.8 |
| DLC | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 30% | 1.8 |
| DLC | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 3.3 |
| DLC | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 3.3 |
| DLC | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 30% | 1.9 |
| DLC | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 4.4 |
| DLC | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 4.4 |
| DLC | Refrigeration Commissioning | Non-commissioned refrigeration system | Office | Refrigeration | Existing | building | 5,086 | 9.5% | 0.10 | 3 | \$1,086 | 85% | 0.1 |
| DLC | Refrigeration Commissioning | Non-commissioned refrigeration system | Office | Refrigeration | New | building | 5,086 | 9.5% | 0.10 | 3 | \$1,086 | 85% | 0.1 |
| DLC | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Office | Refrigeration | Existing | building | 1,271 | 70% | 0.7 | 4 | \$93 | 22% | 3.7 |
| DLC | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Office | Refrigeration | Existing | building | 3,662 | 8.5% | 0.09 | 4 | \$80 | 22% | 0.9 |
| DLC | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Office | Refrigeration | New | building | 1,271 | 70% | 0.7 | 4 | \$93 | 22% | 3.7 |
| DLC | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Office | Refrigeration | New | building | 3,662 | 8.5% | 0.09 | 4 | \$80 | 22% | 0.9 |
| DLC | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Office | Refrigeration | Existing | building | 1,271 | 12% | 0.1 | 11 | \$117 | 79% | 1.3 |
| DLC | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Office | Refrigeration | New | building | 1,271 | 12% | 0.1 | 11 | \$117 | 79% | 1.3 |
| DLC | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Office | Refrigeration | Existing | building | 3,662 | 8.9% | 0.09 | 11 | \$117 | 79% | 1.8 |
| DLC | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Office | Refrigeration | New | building | 3,662 | 8.9% | 0.09 | 11 | \$117 | 79% | 1.8 |
| DLC | VSD Controlled Compressor | Compressor w/out VSD | Office | Refrigeration | Early | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.2 |
| DLC | VSD Controlled Compressor | Compressor w/out VSD | Office | Refrigeration | New | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.2 |
| DLC | VSD Controlled Compressor | Compressor w/out VSD | Office | Refrigeration | ROB | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.2 |
| DLC | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Office | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$268 | 35% | 1.0 |
| DLC | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Office | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$268 | 35% | 1.0 |
| DLC | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Office | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.5 |
| DLC | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Office | Refrigeration | New | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 3.3 |
| DLC | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Office | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.5 |
| DLC | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Office | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 3.3 |
| DLC | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 35% | 2.7 |
| DLC | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 35% | 2.5 |
| DLC | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 5.7 |
| DLC | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 5.4 |
| DLC | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 5.7 |
| DLC | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 5.4 |
| DLC | Adding reflective roof treatment | Std color roof | Office | Space Heating | Existing | building | 12,510 | 7.1% | 0.07 | 6 | \$11,826 | 82% | 0.0 |
| DLC | Adding reflective roof treatment | Std color roof | Office | Space Heating | New | building | 12,510 | 7.1% | 0.07 | 6 | \$11,826 | 82% | 0.0 |
| DLC | Adding window shade film | No shade film | Office | Space Heating | Existing | building | 12,510 | 1.3% | 0.4 | 10 | \$152 | 13% | 2.1 |
| DLC | Adding window shade film | No shade film | Office | Space Heating | New | building | 12,510 | 1.3% | 0.4 | 10 | \$152 | 13% | 2.1 |
| DLC | Adding window shade screen | No shade screen | Office | Space Heating | Existing | building | 12,510 | 1.1% | 0.01 | 10 | \$59 | 13% | 1.0 |
| DLC | Adding window shade screen | No shade screen | Office | Space Heating | New | building | 12,510 | 1.1% | 0.01 | 10 | \$59 | 13% | 1.0 |
| DLC | Automated control system | Manual Controls | Office | Space Heating | Existing | building | 12,510 | 17% | 0.2 | 15 | \$13,696 | 51% | 0.1 |
| DLC | Automated control system | Manual Controls | Office | Space Heating | New | building | 12,510 | 17% | 0.2 | 15 | \$13,696 | 94% | 0.1 |
| DLC | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Office | Space Heating | Existing | building | 12,510 | 4.9% | 0.05 | 15 | \$16,437 | 71% | 0.0 |
| DLC | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Office | Space Heating | New | building | 12,510 | 2.3% | 0.02 | 15 | \$15,624 | 94% | 0.0 |
| DLC | Duct Insulation, Add R8 | No Insulation | Office | Space Heating | Existing | building | 12,510 | 1.4% | 0.04 | 15 | \$99 | 20% | 1.4 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|--|---------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Duct Insulation, Add R8 | No Insulation | Office | Space Heating | New | building | 12,510 | 1.4% | 0.04 | 15 | \$99 | 10% | 1.4 |
| DLC | Efficient Unit Heating System | Existing Unit Heaters in PA | Office | Space Heating | Early | heater | 10,898 | 23% | 0.02 | 15 | \$3,289 | 83% | 0.5 |
| DLC | Efficient Unit Heating System | Std. Unit Heater | Office | Space Heating | New | heater | 9,672 | 13% | 0.01 | 15 | \$1,991 | 83% | 0.4 |
| DLC | Efficient Unit Heating System | Std. Unit Heater | Office | Space Heating | ROB | heater | 9,672 | 13% | 0.01 | 15 | \$1,991 | 83% | 0.4 |
| DLC | Facility Commissioning | No Facility Commissioning | Office | Space Heating | New | building | 12,510 | 16% | 0.2 | 10 | \$45,446 | 89% | 0.0 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Office | Space Heating | Existing | building | 12,510 | 7.1% | 0.07 | 15 | \$55,494 | 25% | 0.0 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Office | Space Heating | New | building | 12,510 | 7.1% | 0.07 | 15 | \$55,494 | 35% | 0.0 |
| DLC | Hi Eff HVAC System Design | No HVAC Design | Office | Space Heating | New | building | 12,510 | 0.8% | 0.01 | 10 | \$1,030 | 51% | 0.0 |
| DLC | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Office | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 1.1 |
| DLC | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Office | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 1.1 |
| DLC | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Office | Space Heating | Existing | building | 12,510 | 2.8% | 0.03 | 10 | \$7,735 | 81% | 0.0 |
| DLC | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Office | Space Heating | New | building | 12,510 | 2.8% | 0.03 | 10 | \$7,735 | 81% | 0.0 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Office | Space Heating | Existing | building | 12,510 | 3.6% | 0.04 | 11 | \$286 | 49% | 0.8 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Office | Space Heating | New | building | 12,510 | 3.1% | 0.03 | 11 | \$146 | 49% | 1.3 |
| DLC | Re-Commissioning (Existing Construction) | No Re-Commissioning | Office | Space Heating | Existing | building | 12,510 | 16% | 0.2 | 5 | \$7,777 | 86% | 0.1 |
| DLC | VFD on Cooling Tower Fan | Motor w/out VFD | Office | Space Heating | Early | motor | 18,724 | 70% | 3.4 | 15 | \$2,843 | 88% | 3.9 |
| DLC | VFD on Cooling Tower Fan | Motor w/out VFD | Office | Space Heating | New | motor | 18,373 | 72% | 3.3 | 15 | \$2,843 | 88% | 3.9 |
| DLC | VFD on Cooling Tower Fan | Motor w/out VFD | Office | Space Heating | ROB | motor | 18,373 | 72% | 3.3 | 15 | \$2,843 | 88% | 3.9 |
| DLC | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Office | Space Heating | Existing | building | 12,510 | 15% | 0.2 | 15 | \$5,028 | 26% | 0.3 |
| DLC | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Office | Space Heating | New | building | 12,510 | 0.5% | 0.01 | 15 | \$3,857 | 94% | 0.0 |
| DLC | 80W Induction Street Lighting | One 100W HPS Street Light Fixture | Office | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 0% | 0.3 |
| DLC | 80W Induction Street Lighting | One 100W HPS Street Light Fixture | Office | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.9 |
| DLC | 80W Induction Street Lighting | One 100W HPS Street Light Fixture | Office | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.9 |
| DLC | Green LED Traffic Light | Green Incandescent Traffic Light | Office | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 0% | 1.3 |
| DLC | Green LED Traffic Light | Green Incandescent Traffic Light | Office | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.2 |
| DLC | Green LED Traffic Light | Green Incandescent Traffic Light | Office | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.2 |
| DLC | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Office | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 0% | 3.1 |
| DLC | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Office | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| DLC | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Office | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| DLC | LED Street Lighting (67W) | One 100W HPS Street Light | Office | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 0% | 0.2 |
| DLC | LED Street Lighting (67W) | One 100W HPS Street Light | Office | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.4 |
| DLC | LED Street Lighting (67W) | One 100W HPS Street Light | Office | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.4 |
| DLC | Red LED Traffic Light | One Red Incandescent Traffic Light | Office | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 0% | 1.7 |
| DLC | Red LED Traffic Light | One Red Incandescent Traffic Light | Office | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| DLC | Red LED Traffic Light | One Red Incandescent Traffic Light | Office | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| DLC | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Office | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 0% | 0.1 |
| DLC | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Office | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| DLC | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Office | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| DLC | Demand controlled Circulating Systems | Constant circulation system | Office | Water Heating | Existing | building | 883 | 20% | 0.2 | 15 | \$160 | 59% | 1.9 |
| DLC | Demand controlled Circulating Systems | Constant circulation system | Office | Water Heating | New | building | 883 | 20% | 0.2 | 15 | \$160 | 59% | 1.9 |
| DLC | Drainwater Heat Recovery Water Heater | No heat recovery | Office | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 2.1 |
| DLC | Drainwater Heat Recovery Water Heater | No heat recovery | Office | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 2.1 |
| DLC | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Office | Water Heating | Existing | building | 883 | 5.9% | 0.06 | 12 | \$70 | 85% | 1.0 |
| DLC | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Office | Water Heating | New | building | 883 | 5.9% | 0.06 | 12 | \$20 | 85% | 3.7 |
| DLC | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Office | Water Heating | Early | water heater | 9,692 | 66% | 1.1 | 10 | \$1,187 | 68% | 2.8 |
| DLC | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Office | Water Heating | Early | water heater | 9,692 | 66% | 1.1 | 10 | \$1,187 | 68% | 2.8 |
| DLC | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Office | Water Heating | New | water heater | 9,692 | 66% | 1.1 | 10 | \$1,187 | 68% | 2.8 |
| DLC | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Office | Water Heating | New | water heater | 9,692 | 66% | 1.1 | 10 | \$1,187 | 68% | 2.8 |
| DLC | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Office | Water Heating | ROB | water heater | 9,423 | 65% | 1.1 | 10 | \$1,187 | 68% | 2.7 |
| DLC | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Office | Water Heating | ROB | water heater | 9,423 | 65% | 1.1 | 10 | \$1,187 | 68% | 2.7 |
| DLC | Heat Recovery Unit | Base Water Heating | Office | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.8 |
| DLC | Heat Recovery Unit | Base Water Heating | Office | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.8 |
| DLC | Heat Trap | No Heat Trap | Office | Water Heating | Existing | building | 883 | 22% | 0.2 | 11 | \$6.0 | 50% | 42.6 |
| DLC | Heat Trap | No Heat Trap | Office | Water Heating | New | building | 883 | 22% | 0.2 | 11 | \$0.9 | 50% | 285.8 |
| DLC | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Office | Water Heating | Early | water heater | 9,692 | 5.9% | 0.1 | 15 | \$307 | 79% | 1.4 |
| DLC | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Office | Water Heating | Early | water heater | 9,692 | 5.9% | 0.1 | 15 | \$307 | 79% | 1.4 |
| DLC | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Office | Water Heating | New | water heater | 9,423 | 3.2% | 0.05 | 15 | \$307 | 79% | 0.8 |
| DLC | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Office | Water Heating | New | water heater | 9,423 | 3.2% | 0.05 | 15 | \$307 | 79% | 0.8 |
| DLC | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Office | Water Heating | ROB | water heater | 9,423 | 3.2% | 0.05 | 15 | \$307 | 79% | 0.8 |
| DLC | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Office | Water Heating | ROB | water heater | 9,423 | 3.2% | 0.05 | 15 | \$307 | 79% | 0.8 |
| DLC | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Office | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$466 | 81% | 43.7 |
| DLC | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Office | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 22.8 |
| DLC | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Office | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 22.8 |
| DLC | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Office | Water Heating | Existing | building | 883 | 3.9% | 0.04 | 13 | \$5.1 | 68% | 10.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|--|--------------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Office | Water Heating | New | building | 883 | 3.9% | 0.04 | 13 | \$5.1 | 0% | 10.2 |
| DLC | Hot Water Circulation Pump Time-Clock | Constant circulation system | Office | Water Heating | Existing | building | 883 | 5.3% | 0.05 | 10 | \$3.6 | 72% | 15.7 |
| DLC | Hot Water Circulation Pump Time-Clock | Constant circulation system | Office | Water Heating | New | building | 883 | 5.3% | 0.05 | 10 | \$3.6 | 72% | 15.7 |
| DLC | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Office | Water Heating | Existing | building | 883 | 1.1% | 0.01 | 7 | \$22 | 78% | 0.4 |
| DLC | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Office | Water Heating | New | building | 883 | 0.9% | 0.01 | 7 | \$0.5 | 78% | 13.3 |
| DLC | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Office | Water Heating | Existing | building | 883 | 13% | 0.1 | 5 | \$300 | 0% | 0.2 |
| DLC | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Office | Water Heating | New | building | 883 | 13% | 0.1 | 5 | \$194 | 0% | 0.4 |
| DLC | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Office | Water Heating | Existing | building | 883 | 6.5% | 0.07 | 9 | \$25 | 2% | 2.5 |
| DLC | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Office | Water Heating | New | building | 883 | 6.5% | 0.07 | 9 | \$6.0 | 2% | 10.3 |
| DLC | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Office | Water Heating | Early | water heater | 9,692 | 52% | 0.4 | 15 | \$6,222 | 32% | 0.6 |
| DLC | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Office | Water Heating | New | water heater | 9,423 | 51% | 0.4 | 15 | \$6,222 | 32% | 0.5 |
| DLC | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Office | Water Heating | ROB | water heater | 9,423 | 51% | 0.4 | 15 | \$6,222 | 32% | 0.5 |
| DLC | Ultrasonic Faucet Control | Manual Faucet Control | Office | Water Heating | Existing | building | 883 | 3.0% | 0.03 | 10 | \$153 | 77% | 0.2 |
| DLC | Ultrasonic Faucet Control | Manual Faucet Control | Office | Water Heating | New | building | 883 | 3.1% | 0.03 | 10 | \$153 | 77% | 0.2 |
| DLC | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Office | Water Heating | Existing | building | 883 | 2.2% | 0.02 | 4 | \$28 | 83% | 0.4 |
| DLC | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Office | Water Heating | New | building | 883 | 2.3% | 0.02 | 4 | \$28 | 83% | 0.4 |
| DLC | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Other Inst'l | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.2 |
| DLC | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Other Inst'l | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.2 |
| DLC | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Other Inst'l | Cooking | Early | steamer | 51 | 46% | 0.00 | 12 | \$5,053 | 81% | 0.0 |
| DLC | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Other Inst'l | Cooking | New | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| DLC | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Other Inst'l | Cooking | ROB | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| DLC | Electric combination oven (Energy Star) | Standard Oven | Other Inst'l | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 3.3 |
| DLC | Electric combination oven (Energy Star) | Standard Oven | Other Inst'l | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 3.3 |
| DLC | Electric Convection Oven ENERTY STAR (74% Eff) | Conventional convection oven w/ 65% efficiency | Other Inst'l | Cooking | Early | oven | 8,641 | 37% | 0.6 | 12 | \$4,119 | 81% | 0.5 |
| DLC | Electric Convection Oven ENERTY STAR (74% Eff) | Conventional convection oven w/ 70% efficiency | Other Inst'l | Cooking | New | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.8 |
| DLC | Electric Convection Oven ENERTY STAR (74% Eff) | Conventional convection oven w/ 70% efficiency | Other Inst'l | Cooking | ROB | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.8 |
| DLC | High Efficiency Fryer (ENERGY STAR 84% Eff) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Other Inst'l | Cooking | Early | fryer | 6,105 | 23% | 0.3 | 12 | \$9,241 | 86% | 0.1 |
| DLC | High Efficiency Fryer (ENERGY STAR 84% Eff) | Standard Electric Fryer meeting Code Minimum | Other Inst'l | Cooking | New | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.4 |
| DLC | High Efficiency Fryer (ENERGY STAR 84% Eff) | Standard Electric Fryer meeting Code Minimum | Other Inst'l | Cooking | ROB | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.4 |
| DLC | High Efficiency Griddle (ENERGY STAR 75% Eff) | Efficiency code minimum griddle (70% eff) | Other Inst'l | Cooking | Early | griddle | 11,317 | 65% | 1.4 | 12 | \$4,977 | 86% | 1.0 |
| DLC | High Efficiency Griddle (ENERGY STAR 75% Eff) | Conventional Griddle w/ 60% efficiency | Other Inst'l | Cooking | New | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.3 |
| DLC | High Efficiency Griddle (ENERGY STAR 75% Eff) | Conventional Griddle w/ 60% efficiency | Other Inst'l | Cooking | ROB | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.3 |
| DLC | High Efficiency Induction Cooking | Standard Cooking | Other Inst'l | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.2 |
| DLC | High Efficiency Induction Cooking | Standard Cooking | Other Inst'l | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.2 |
| DLC | Adding reflective roof treatment | Std color roof | Other Inst'l | Cooling Central | Existing | building | 1,702 | 7.0% | 0.07 | 6 | \$12,489 | 82% | 0.0 |
| DLC | Adding reflective roof treatment | Std color roof | Other Inst'l | Cooling Central | New | building | 1,702 | 7.0% | 0.07 | 6 | \$12,489 | 82% | 0.0 |
| DLC | Adding window shade film | No shade film | Other Inst'l | Cooling Central | Existing | building | 1,702 | 1.3% | 0.4 | 10 | \$21 | 12% | 13.1 |
| DLC | Adding window shade film | No shade film | Other Inst'l | Cooling Central | New | building | 1,702 | 1.3% | 0.4 | 10 | \$21 | 13% | 13.1 |
| DLC | Adding window shade screen | No shade screen | Other Inst'l | Cooling Central | Existing | building | 1,702 | 1.1% | 0.01 | 10 | \$8.0 | 13% | 1.8 |
| DLC | Adding window shade screen | No shade screen | Other Inst'l | Cooling Central | New | building | 1,702 | 1.1% | 0.01 | 10 | \$8.0 | 13% | 1.8 |
| DLC | Automated control system | Manual Controls | Other Inst'l | Cooling Central | Existing | building | 1,702 | 17% | 0.2 | 15 | \$1,863 | 51% | 0.2 |
| DLC | Automated control system | Manual Controls | Other Inst'l | Cooling Central | New | building | 1,702 | 17% | 0.2 | 15 | \$1,863 | 94% | 0.2 |
| DLC | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Other Inst'l | Cooling Central | Existing | building | 1,702 | 7.2% | 0.07 | 15 | \$17,130 | 71% | 0.0 |
| DLC | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Other Inst'l | Cooling Central | New | building | 1,702 | 2.4% | 0.02 | 15 | \$16,283 | 94% | 0.0 |
| DLC | Chiller Tuneup/Diagnostics | No tuneup | Other Inst'l | Cooling Central | Existing | building | 1,702 | 8.0% | 0.08 | 10 | \$4,345 | 59% | 0.0 |
| DLC | Chiller Tuneup/Diagnostics | No tuneup | Other Inst'l | Cooling Central | New | building | 1,702 | 8.0% | 0.08 | 10 | \$4,345 | 59% | 0.0 |
| DLC | Duct Insulation, Add R8 | No Insulation | Other Inst'l | Cooling Central | Existing | building | 1,702 | 1.4% | 0.04 | 15 | \$14 | 20% | 3.9 |
| DLC | Duct Insulation, Add R8 | No Insulation | Other Inst'l | Cooling Central | New | building | 1,702 | 1.4% | 0.04 | 15 | \$14 | 10% | 3.9 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Other Inst'l | Cooling Central | Existing | building | 1,702 | 7.0% | 0.07 | 15 | \$7,548 | 25% | 0.0 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Other Inst'l | Cooling Central | New | building | 1,702 | 7.0% | 0.07 | 15 | \$7,548 | 35% | 0.0 |
| DLC | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | Early | ton | 5,094 | 24% | 0.4 | 15 | \$108,550 | 88% | 0.0 |
| DLC | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | New | ton | 4,164 | 6.7% | 0.10 | 15 | \$12,927 | 88% | 0.0 |
| DLC | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | ROB | ton | 4,164 | 6.7% | 0.10 | 15 | \$12,927 | 88% | 0.0 |
| DLC | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | Early | ton | 7,611 | 23% | 0.6 | 15 | \$140,105 | 88% | 0.0 |
| DLC | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | New | ton | 6,124 | 4.8% | 0.1 | 15 | \$9,336 | 88% | 0.0 |
| DLC | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | ROB | ton | 6,124 | 4.9% | 0.1 | 15 | \$9,336 | 88% | 0.0 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | Early | ton | 62,308 | 26% | 5.6 | 15 | \$105,354 | 88% | 0.1 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | New | ton | 54,288 | 15% | 2.8 | 15 | \$30,530 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | ROB | ton | 54,288 | 15% | 2.8 | 15 | \$30,530 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | Early | ton | 93,320 | 23% | 7.4 | 15 | \$154,107 | 88% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|--|--------------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | New | ton | 85,726 | 16% | 4.8 | 15 | \$27,646 | 88% | 0.5 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | ROB | ton | 93,320 | 23% | 7.4 | 15 | \$27,646 | 88% | 0.7 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | Early | ton | 154,988 | 23% | 12.2 | 15 | \$302,924 | 88% | 0.1 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | New | ton | 140,275 | 14% | 7.0 | 15 | \$115,432 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | ROB | ton | 154,988 | 23% | 12.2 | 15 | \$115,432 | 88% | 0.3 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | Early | ton | 185,985 | 23% | 14.6 | 15 | \$350,154 | 88% | 0.1 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | New | ton | 168,330 | 14% | 8.5 | 15 | \$120,406 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | ROB | ton | 185,985 | 23% | 14.6 | 15 | \$120,406 | 88% | 0.3 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | Early | ton | 41,225 | 29% | 4.2 | 15 | \$83,632 | 88% | 0.1 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | New | ton | 32,011 | 8.9% | 1.0 | 15 | \$40,211 | 88% | 0.1 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | ROB | ton | 41,225 | 29% | 4.2 | 15 | \$40,211 | 88% | 0.3 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | Early | ton | 70,835 | 35% | 8.6 | 15 | \$132,173 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | New | ton | 52,831 | 13% | 2.3 | 15 | \$39,556 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | ROB | ton | 52,831 | 13% | 2.3 | 15 | \$39,556 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | Early | ton | 118,265 | 39% | 16.1 | 15 | \$187,029 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | New | ton | 84,321 | 15% | 4.3 | 15 | \$33,554 | 88% | 0.3 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | ROB | ton | 118,265 | 39% | 16.1 | 15 | \$33,554 | 88% | 1.3 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | Early | ton | 20,695 | 30% | 2.1 | 15 | \$32,398 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | New | ton | 16,396 | 11% | 0.6 | 15 | \$7,188 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | ROB | ton | 20,695 | 30% | 2.1 | 15 | \$7,188 | 88% | 0.8 |
| DLC | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Other Inst'l | Cooling Central | Existing | building | 1,702 | 1.0% | 0.01 | 10 | \$41,718 | 81% | 0.0 |
| DLC | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Other Inst'l | Cooling Central | New | building | 1,702 | 1.1% | 0.01 | 10 | \$41,718 | 81% | 0.0 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Other Inst'l | Cooling Central | Existing | building | 1,702 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.1 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Other Inst'l | Cooling Central | New | building | 1,702 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.2 |
| DLC | Re-Commissioning (Existing Construction) | No Re-Commissioning | Other Inst'l | Cooling Central | Existing | building | 1,702 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |
| DLC | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Other Inst'l | Cooling Central | Existing | building | 1,702 | 13% | 0.1 | 15 | \$3,285 | 26% | 0.1 |
| DLC | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Other Inst'l | Cooling Central | New | building | 1,702 | 0.3% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| DLC | <65k BTU/hr 14 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Other Inst'l | Cooling Unitary | Early | ton | 2,614 | 16% | 0.2 | 15 | \$1,545 | 29% | 0.3 |
| DLC | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Other Inst'l | Cooling Unitary | New | ton | 2,368 | 7.1% | 0.09 | 15 | \$339 | 29% | 0.6 |
| DLC | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Other Inst'l | Cooling Unitary | ROB | ton | 2,368 | 7.1% | 0.09 | 15 | \$339 | 29% | 0.6 |
| DLC | <65k BTU/hr 15 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Other Inst'l | Cooling Unitary | Early | ton | 2,614 | 22% | 0.3 | 15 | \$1,821 | 30% | 0.3 |
| DLC | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Other Inst'l | Cooling Unitary | New | ton | 2,368 | 13% | 0.2 | 15 | \$714 | 30% | 0.5 |
| DLC | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Other Inst'l | Cooling Unitary | ROB | ton | 2,368 | 13% | 0.2 | 15 | \$714 | 30% | 0.5 |
| DLC | <65k BTU/hr 16 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Other Inst'l | Cooling Unitary | Early | ton | 2,614 | 26% | 0.4 | 15 | \$2,098 | 31% | 0.4 |
| DLC | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Other Inst'l | Cooling Unitary | New | ton | 2,368 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.5 |
| DLC | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Other Inst'l | Cooling Unitary | ROB | ton | 2,368 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.5 |
| DLC | >760k min 10.2 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Other Inst'l | Cooling Unitary | Early | ton | 66,142 | 3.7% | 1.3 | 15 | \$68,066 | 56% | 0.0 |
| DLC | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Other Inst'l | Cooling Unitary | New | ton | 66,990 | 4.9% | 1.7 | 15 | \$6,231 | 56% | 0.6 |
| DLC | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Other Inst'l | Cooling Unitary | ROB | ton | 66,990 | 4.9% | 1.7 | 15 | \$6,231 | 56% | 0.6 |
| DLC | 135-240k min 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Other Inst'l | Cooling Unitary | Early | ton | 16,274 | 18% | 1.6 | 15 | \$18,135 | 79% | 0.2 |
| DLC | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Other Inst'l | Cooling Unitary | New | ton | 14,804 | 10.0% | 0.8 | 15 | \$1,948 | 79% | 0.8 |
| DLC | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Other Inst'l | Cooling Unitary | ROB | ton | 14,804 | 10.0% | 0.8 | 15 | \$1,948 | 79% | 0.8 |
| DLC | 240k-760k min 11 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Other Inst'l | Cooling Unitary | Early | ton | 43,515 | 9.0% | 2.1 | 15 | \$44,809 | 66% | 0.1 |
| DLC | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Other Inst'l | Cooling Unitary | New | ton | 43,623 | 9.3% | 2.1 | 15 | \$4,813 | 66% | 0.9 |
| DLC | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Other Inst'l | Cooling Unitary | ROB | ton | 43,623 | 9.3% | 2.1 | 15 | \$4,813 | 66% | 0.9 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|--|--------------|-----------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | 65k-135k BTU/hr 12 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Other Inst'l | Cooling Unitary | Early | ton | 9,594 | 17% | 0.9 | 15 | \$10,946 | 86% | 0.2 |
| DLC | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Other Inst'l | Cooling Unitary | New | ton | 8,550 | 6.7% | 0.3 | 15 | \$1,392 | 86% | 0.5 |
| DLC | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Other Inst'l | Cooling Unitary | ROB | ton | 8,550 | 6.7% | 0.3 | 15 | \$1,392 | 86% | 0.5 |
| DLC | Adding reflective roof treatment | Std color roof | Other Inst'l | Cooling Unitary | Existing | building | 20,299 | 7.1% | 0.07 | 6 | \$12,489 | 82% | 0.0 |
| DLC | Adding reflective roof treatment | Std color roof | Other Inst'l | Cooling Unitary | New | building | 20,299 | 7.0% | 0.07 | 6 | \$12,489 | 82% | 0.0 |
| DLC | Adding window shade film | No shade film | Other Inst'l | Cooling Unitary | Existing | building | 20,299 | 1.3% | 0.4 | 10 | \$247 | 12% | 1.5 |
| DLC | Adding window shade film | No shade film | Other Inst'l | Cooling Unitary | New | building | 20,299 | 1.3% | 0.4 | 10 | \$247 | 13% | 1.5 |
| DLC | Adding window shade screen | No shade screen | Other Inst'l | Cooling Unitary | Existing | building | 20,299 | 1.1% | 0.01 | 10 | \$96 | 12% | 1.0 |
| DLC | Adding window shade screen | No shade screen | Other Inst'l | Cooling Unitary | New | building | 20,299 | 1.1% | 0.01 | 10 | \$96 | 13% | 1.0 |
| DLC | Automated control system | Manual Controls | Other Inst'l | Cooling Unitary | Existing | building | 20,299 | 17% | 0.2 | 15 | \$22,222 | 51% | 0.1 |
| DLC | Automated control system | Manual Controls | Other Inst'l | Cooling Unitary | New | building | 20,299 | 17% | 0.2 | 15 | \$22,222 | 94% | 0.1 |
| DLC | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Other Inst'l | Cooling Unitary | Existing | building | 20,299 | 7.2% | 0.07 | 15 | \$17,130 | 71% | 0.1 |
| DLC | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Other Inst'l | Cooling Unitary | New | building | 20,299 | 2.4% | 0.02 | 15 | \$16,283 | 94% | 0.0 |
| DLC | Duct Insulation, Add R8 | No Insulation | Other Inst'l | Cooling Unitary | Existing | building | 20,299 | 1.4% | 0.04 | 15 | \$161 | 20% | 1.3 |
| DLC | Duct Insulation, Add R8 | No Insulation | Other Inst'l | Cooling Unitary | New | building | 20,299 | 1.4% | 0.04 | 15 | \$161 | 10% | 1.3 |
| DLC | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Other Inst'l | Cooling Unitary | Existing | building | 11,164 | 13% | 0.1 | 1 | \$107 | 73% | 0.6 |
| DLC | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Other Inst'l | Cooling Unitary | New | building | 11,164 | 13% | 0.1 | 1 | \$107 | 73% | 0.6 |
| DLC | ECM Motors for split systems | Std Shaded Pole Motor | Other Inst'l | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 3.2 |
| DLC | ECM Motors for split systems | Std Shaded Pole Motor | Other Inst'l | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 3.2 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Other Inst'l | Cooling Unitary | Existing | building | 20,299 | 7.1% | 0.07 | 15 | \$90,041 | 25% | 0.0 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Other Inst'l | Cooling Unitary | New | building | 20,299 | 7.1% | 0.07 | 15 | \$90,041 | 35% | 0.0 |
| DLC | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Other Inst'l | Cooling Unitary | Existing | building | 20,299 | 5.0% | 0.05 | 5 | \$225 | 59% | 0.9 |
| DLC | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Other Inst'l | Cooling Unitary | Existing | building | 20,299 | 1.3% | 0.09 | 5 | \$225 | 51% | 0.4 |
| DLC | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Other Inst'l | Cooling Unitary | New | building | 20,299 | 1.1% | 0.08 | 5 | \$135 | 51% | 0.5 |
| DLC | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Other Inst'l | Cooling Unitary | Existing | building | 20,299 | 1.1% | 0.01 | 10 | \$44,835 | 86% | 0.0 |
| DLC | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Other Inst'l | Cooling Unitary | New | building | 20,299 | 1.1% | 0.01 | 10 | \$44,835 | 86% | 0.0 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) | Other Inst'l | Cooling Unitary | Existing | building | 20,299 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.7 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Other Inst'l | Cooling Unitary | New | building | 20,299 | 1.7% | 0.02 | 11 | \$146 | 49% | 1.1 |
| DLC | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Other Inst'l | Cooling Unitary | Early | unit | 1,434 | 19% | 0.09 | 15 | \$849 | 85% | 0.3 |
| DLC | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Other Inst'l | Cooling Unitary | New | unit | 1,448 | 20% | 0.09 | 15 | \$356 | 85% | 0.8 |
| DLC | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Other Inst'l | Cooling Unitary | ROB | unit | 1,448 | 20% | 0.09 | 15 | \$356 | 85% | 0.8 |
| DLC | Re-Commissioning (Existing Construction) | No Re-Commissioning | Other Inst'l | Cooling Unitary | Existing | building | 20,299 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.1 |
| DLC | Room AC (w/ louvered sides) | Existing efficiency Room AC in Pennsylvania (2000 Federal Standards) | Other Inst'l | Cooling Unitary | Early | ton | 1,185 | 13% | 0.06 | 9 | \$348 | 82% | 0.3 |
| DLC | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Other Inst'l | Cooling Unitary | New | ton | 1,074 | 4.5% | 0.02 | 9 | \$17 | 82% | 1.6 |
| DLC | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Other Inst'l | Cooling Unitary | ROB | ton | 1,074 | 4.5% | 0.02 | 9 | \$17 | 82% | 1.6 |
| DLC | Wall Insualtions (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Other Inst'l | Cooling Unitary | Existing | building | 20,299 | 13% | 0.1 | 15 | \$3,285 | 26% | 0.5 |
| DLC | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Other Inst'l | Cooling Unitary | New | building | 20,299 | 0.3% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| DLC | 80W Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Other Inst'l | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 0% | 0.2 |
| DLC | 80W Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Other Inst'l | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| DLC | 80W Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Other Inst'l | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| DLC | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Other Inst'l | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 1.2 |
| DLC | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Other Inst'l | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.7 |
| DLC | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Other Inst'l | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.7 |
| DLC | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Other Inst'l | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 75% | 0.3 |
| DLC | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Other Inst'l | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 75% | 0.2 |
| DLC | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Other Inst'l | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 3.1 |
| DLC | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Other Inst'l | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.3 |
| DLC | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Other Inst'l | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 3.1 |
| DLC | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Other Inst'l | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.3 |
| DLC | Photocell Controls (Outdoor) | Lighting w/ No Controls | Other Inst'l | Ext. Lighting | Existing | building | 173 | 28% | 0.3 | 8 | \$5,088 | 88% | 0.0 |
| DLC | Photocell Controls (Outdoor) | Lighting w/ No Controls | Other Inst'l | Ext. Lighting | New | building | 173 | 28% | 0.3 | 8 | \$5,088 | 0% | 0.0 |
| DLC | Adding reflective roof treatment | Std color roof | Other Inst'l | Heat Pump | Existing | building | 1,874 | 6.9% | 0.07 | 6 | \$12,489 | 82% | 0.0 |
| DLC | Adding reflective roof treatment | Std color roof | Other Inst'l | Heat Pump | New | building | 1,874 | 6.9% | 0.07 | 6 | \$12,489 | 82% | 0.0 |
| DLC | Adding window shade film | No shade film | Other Inst'l | Heat Pump | Existing | building | 1,874 | 3.9% | 0.4 | 10 | \$23 | 12% | 12.7 |
| DLC | Adding window shade film | No shade film | Other Inst'l | Heat Pump | New | building | 1,874 | 3.9% | 0.4 | 10 | \$23 | 12% | 12.7 |
| DLC | Adding window shade screen | No shade screen | Other Inst'l | Heat Pump | Existing | building | 1,874 | 0.3% | 0.01 | 10 | \$2.9 | 12% | 3.3 |
| DLC | Adding window shade screen | No shade screen | Other Inst'l | Heat Pump | New | building | 1,874 | 0.3% | 0.01 | 10 | \$2.9 | 12% | 3.2 |
| DLC | Automated control system | Manual Controls | Other Inst'l | Heat Pump | Existing | building | 1,874 | 17% | 0.2 | 15 | \$2,052 | 51% | 0.2 |
| DLC | Automated control system | Manual Controls | Other Inst'l | Heat Pump | New | building | 1,874 | 17% | 0.2 | 15 | \$2,052 | 94% | 0.2 |
| DLC | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Other Inst'l | Heat Pump | Existing | building | 1,874 | 7.2% | 0.07 | 15 | \$17,130 | 71% | 0.0 |
| DLC | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Other Inst'l | Heat Pump | New | building | 1,874 | 2.4% | 0.02 | 15 | \$16,283 | 94% | 0.0 |
| DLC | Duct Insulation, Add R8 | No Insulation | Other Inst'l | Heat Pump | Existing | building | 1,874 | 4.0% | 0.04 | 15 | \$15 | 12% | 5.6 |
| DLC | Duct Insulation, Add R8 | No Insulation | Other Inst'l | Heat Pump | New | building | 1,874 | 4.0% | 0.04 | 15 | \$15 | 6% | 5.6 |
| DLC | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Other Inst'l | Heat Pump | Early | heat pump | 2,289 | 12% | 0.02 | 15 | \$4,070 | 83% | 0.0 |
| DLC | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Other Inst'l | Heat Pump | New | heat pump | 2,182 | 7.8% | 0.01 | 15 | \$1,097 | 83% | 0.1 |
| DLC | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Other Inst'l | Heat Pump | ROB | heat pump | 2,182 | 7.8% | 0.01 | 15 | \$1,097 | 83% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|--|--------------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Other Inst'l | Heat Pump | Existing | building | 1,874 | 7.0% | 0.07 | 15 | \$8,315 | 25% | 0.0 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Other Inst'l | Heat Pump | New | building | 1,874 | 7.0% | 0.07 | 15 | \$8,315 | 35% | 0.0 |
| DLC | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Other Inst'l | Heat Pump | Early | heat pump | 23,587 | 16% | 0.3 | 15 | \$91,117 | 19% | 0.0 |
| DLC | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Other Inst'l | Heat Pump | New | heat pump | 22,730 | 13% | 0.3 | 15 | \$33,927 | 19% | 0.1 |
| DLC | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Other Inst'l | Heat Pump | ROB | heat pump | 22,730 | 13% | 0.3 | 15 | \$33,927 | 19% | 0.1 |
| DLC | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Other Inst'l | Heat Pump | Early | heat pump | 23,587 | 16% | 0.3 | 15 | \$58,356 | 19% | 0.0 |
| DLC | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Other Inst'l | Heat Pump | New | heat pump | 22,730 | 13% | 0.3 | 15 | \$1,167 | 19% | 1.7 |
| DLC | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Other Inst'l | Heat Pump | ROB | heat pump | 22,730 | 13% | 0.3 | 15 | \$1,167 | 19% | 1.7 |
| DLC | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Other Inst'l | Heat Pump | Early | heat pump | 6,103 | 17% | 0.09 | 12 | \$4,298 | 81% | 0.1 |
| DLC | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Other Inst'l | Heat Pump | New | heat pump | 5,819 | 12% | 0.06 | 12 | \$852 | 81% | 0.5 |
| DLC | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Other Inst'l | Heat Pump | ROB | heat pump | 5,819 | 12% | 0.06 | 12 | \$852 | 81% | 0.5 |
| DLC | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Other Inst'l | Heat Pump | Existing | building | 1,874 | 5.0% | 0.01 | 5 | \$90 | 51% | 0.2 |
| DLC | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Other Inst'l | Heat Pump | New | building | 1,874 | 5.0% | 0.01 | 5 | \$90 | 51% | 0.2 |
| DLC | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Other Inst'l | Heat Pump | Existing | building | 1,874 | 1.0% | 0.01 | 10 | \$39,918 | 81% | 0.0 |
| DLC | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Other Inst'l | Heat Pump | New | building | 1,874 | 1.0% | 0.01 | 10 | \$39,918 | 81% | 0.0 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Other Inst'l | Heat Pump | Existing | building | 1,874 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.1 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Other Inst'l | Heat Pump | New | building | 1,874 | 2.1% | 0.02 | 11 | \$146 | 49% | 0.2 |
| DLC | Re-Commissioning (Existing Construction) | No Re-Commissioning | Other Inst'l | Heat Pump | Existing | building | 1,874 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |
| DLC | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Other Inst'l | Heat Pump | Existing | building | 1,874 | 13% | 0.1 | 15 | \$3,285 | 26% | 0.1 |
| DLC | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Other Inst'l | Heat Pump | New | building | 1,874 | 0.3% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| DLC | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Other Inst'l | Heat Pump | Early | heat pump | 9,790 | 35% | 0.3 | 15 | \$35,347 | 28% | 0.1 |
| DLC | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Other Inst'l | Heat Pump | New | heat pump | 9,304 | 31% | 0.3 | 15 | \$15,739 | 28% | 0.1 |
| DLC | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Other Inst'l | Heat Pump | ROB | heat pump | 9,304 | 31% | 0.3 | 15 | \$15,739 | 28% | 0.1 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 299 | 9.6% | 0.01 | 13 | \$850 | 39% | 0.0 |
| DLC | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Other Inst'l | High Bay Lighting | Early | Fixture | 299 | 9.5% | 0.01 | 13 | \$850 | 28% | 0.0 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 461 | 41% | 0.04 | 13 | \$850 | 36% | 0.2 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 227 | 9.6% | 0.00 | 13 | \$372 | 39% | 0.0 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 211 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 350 | 41% | 0.03 | 13 | \$397 | 36% | 0.3 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 299 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 278 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 461 | 41% | 0.04 | 13 | \$397 | 36% | 0.3 |
| DLC | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 580 | 19% | 0.02 | 13 | \$851 | 38% | 0.1 |
| DLC | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Other Inst'l | High Bay Lighting | Early | Fixture | 587 | 20% | 0.02 | 13 | \$851 | 38% | 0.1 |
| DLC | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 1,708 | 73% | 0.2 | 13 | \$851 | 38% | 1.0 |
| DLC | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 441 | 19% | 0.02 | 13 | \$372 | 38% | 0.2 |
| DLC | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 1,298 | 73% | 0.2 | 13 | \$383 | 38% | 1.7 |
| DLC | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 580 | 19% | 0.02 | 13 | \$372 | 38% | 0.2 |
| DLC | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 1,708 | 73% | 0.2 | 13 | \$383 | 38% | 2.3 |
| DLC | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 580 | 25% | 0.03 | 13 | \$554 | 29% | 0.2 |
| DLC | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Other Inst'l | High Bay Lighting | Early | Fixture | 569 | 23% | 0.03 | 13 | \$554 | 28% | 0.2 |
| DLC | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 1,708 | 74% | 0.2 | 13 | \$554 | 36% | 1.6 |
| DLC | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 441 | 25% | 0.02 | 13 | \$75 | 29% | 1.0 |
| DLC | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 1,298 | 74% | 0.2 | 13 | \$86 | 36% | 7.8 |
| DLC | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 580 | 25% | 0.03 | 13 | \$75 | 29% | 1.3 |
| DLC | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 1,708 | 74% | 0.2 | 13 | \$86 | 36% | 10.3 |
| DLC | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Other Inst'l | High Bay Lighting | Early | Fixture | 151 | 0.2% | 0.00 | 13 | \$835 | 38% | 0.0 |
| DLC | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 326 | 54% | 0.03 | 13 | \$835 | 38% | 0.1 |
| DLC | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 248 | 54% | 0.03 | 13 | \$382 | 38% | 0.2 |
| DLC | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 326 | 54% | 0.03 | 13 | \$382 | 38% | 0.3 |
| DLC | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 739 | 18% | 0.03 | 13 | \$487 | 25% | 0.2 |
| DLC | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Other Inst'l | High Bay Lighting | Early | Fixture | 773 | 22% | 0.03 | 13 | \$487 | 28% | 0.2 |
| DLC | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 1,708 | 65% | 0.2 | 13 | \$487 | 36% | 1.6 |
| DLC | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 562 | 18% | 0.02 | 13 | \$16 | 25% | 4.4 |
| DLC | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 1,298 | 65% | 0.2 | 13 | \$18 | 36% | 31.8 |
| DLC | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 739 | 18% | 0.03 | 13 | \$16 | 25% | 5.8 |
| DLC | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 1,708 | 65% | 0.2 | 13 | \$18 | 36% | 41.8 |
| DLC | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 739 | 1.5% | 0.00 | 13 | \$557 | 19% | 0.0 |
| DLC | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Other Inst'l | High Bay Lighting | Early | Fixture | 761 | 4.3% | 0.01 | 13 | \$557 | 19% | 0.0 |
| DLC | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 1,708 | 57% | 0.2 | 13 | \$557 | 19% | 1.2 |
| DLC | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 562 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| DLC | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 1,298 | 57% | 0.1 | 13 | \$88 | 19% | 5.9 |
| DLC | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 739 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| DLC | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 1,708 | 57% | 0.2 | 13 | \$88 | 19% | 7.7 |
| DLC | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 314 | 29% | 0.01 | 13 | \$492 | 71% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|---|--------------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 262 | 15% | 0.01 | 13 | \$492 | 95% | 0.1 |
| DLC | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 390 | 43% | 0.02 | 13 | \$492 | 95% | 0.2 |
| DLC | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 361 | 38% | 0.02 | 13 | \$492 | 95% | 0.2 |
| DLC | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 199 | 15% | 0.00 | 13 | \$25 | 95% | 0.8 |
| DLC | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 296 | 43% | 0.02 | 13 | \$51 | 95% | 1.6 |
| DLC | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 262 | 15% | 0.01 | 13 | \$25 | 95% | 1.0 |
| DLC | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 390 | 43% | 0.02 | 13 | \$51 | 95% | 2.1 |
| DLC | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Other Inst'l | High Bay Lighting | Early | lamp | 86 | 16% | 0.00 | 12 | \$7.7 | 99% | 1.2 |
| DLC | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Other Inst'l | High Bay Lighting | New | lamp | 51 | 13% | 0.00 | 12 | \$1.6 | 91% | 2.7 |
| DLC | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Other Inst'l | High Bay Lighting | ROB | lamp | 82 | 13% | 0.00 | 12 | \$1.6 | 91% | 4.3 |
| DLC | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 1,748 | 23% | 0.08 | 13 | \$613 | 5% | 0.5 |
| DLC | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Other Inst'l | High Bay Lighting | Early | Fixture | 1,373 | 1.6% | 0.00 | 13 | \$613 | 28% | 0.0 |
| DLC | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 3,417 | 60% | 0.4 | 13 | \$613 | 18% | 2.3 |
| DLC | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 1,329 | 23% | 0.06 | 13 | \$96 | 5% | 2.2 |
| DLC | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 1,748 | 23% | 0.08 | 13 | \$96 | 5% | 2.9 |
| DLC | 85W Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 1,748 | 92% | 0.3 | 13 | \$1,916 | 95% | 0.6 |
| DLC | 85W Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 3,417 | 96% | 0.6 | 13 | \$1,916 | 95% | 1.2 |
| DLC | 85W Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 1,329 | 92% | 0.2 | 13 | \$1,468 | 95% | 0.6 |
| DLC | 85W Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 2,597 | 96% | 0.5 | 13 | \$1,149 | 95% | 1.5 |
| DLC | 85W Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 1,748 | 92% | 0.3 | 13 | \$1,468 | 95% | 0.8 |
| DLC | 85W Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 3,417 | 96% | 0.6 | 13 | \$1,149 | 95% | 2.0 |
| DLC | Auto Off Time Switch | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | Existing | building | 446 | 24% | 0.2 | 8 | \$1,034 | 13% | 0.2 |
| DLC | Auto Off Time Switch | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | New | building | 446 | 6.9% | 0.07 | 8 | \$1,034 | 0% | 0.0 |
| DLC | Central Lighting Control System | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | Existing | building | 446 | 38% | 0.4 | 8 | \$1,034 | 13% | 0.3 |
| DLC | Central Lighting Control System | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | New | building | 446 | 14% | 0.1 | 8 | \$1,034 | 13% | 0.1 |
| DLC | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Other Inst'l | High Bay Lighting | New | building | 446 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.0 |
| DLC | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Other Inst'l | High Bay Lighting | New | building | 446 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |
| DLC | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Other Inst'l | High Bay Lighting | New | building | 446 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| DLC | Indoor Daylight Sensors | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | Existing | building | 446 | 28% | 0.3 | 8 | \$5,088 | 13% | 0.0 |
| DLC | Indoor Daylight Sensors | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | New | building | 446 | 4.0% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 365 W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 580 | 67% | 0.07 | 13 | \$960 | 95% | 0.3 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 1075 W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 1,708 | 89% | 0.3 | 13 | \$960 | 95% | 1.1 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 295 W Metal Halide Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 469 | 59% | 0.05 | 13 | \$960 | 95% | 0.2 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 365 W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 441 | 67% | 0.06 | 13 | \$480 | 95% | 0.4 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 1075 W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 1,298 | 89% | 0.2 | 13 | \$491 | 95% | 1.6 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 295 W Metal Halide Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 356 | 59% | 0.04 | 13 | \$406 | 95% | 0.4 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 365 W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 580 | 67% | 0.07 | 13 | \$480 | 95% | 0.6 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 1075 W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 1,708 | 89% | 0.3 | 13 | \$491 | 95% | 2.1 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 295 W Metal Halide Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 469 | 59% | 0.05 | 13 | \$406 | 95% | 0.5 |
| DLC | Occupancy Sensor | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | Existing | building | 446 | 24% | 0.2 | 8 | \$1,558 | 11% | 0.1 |
| DLC | Occupancy Sensor | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | New | building | 446 | 6.9% | 0.07 | 8 | \$1,558 | 0% | 0.0 |
| DLC | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | Existing | building | 446 | 28% | 0.3 | 8 | \$5,088 | 11% | 0.0 |
| DLC | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | New | building | 446 | 4.0% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| DLC | Time Clock Control | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | Existing | building | 446 | 28% | 0.3 | 8 | \$1,034 | 13% | 0.2 |
| DLC | Time Clock Control | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | New | building | 446 | 4.0% | 0.04 | 8 | \$1,034 | 0% | 0.0 |
| DLC | Auto Off Time Switch | Lighting w/ No Controls | Other Inst'l | Lin. Fluor. Lighting | Existing | building | 13,381 | 24% | 0.2 | 8 | \$1,034 | 13% | 1.1 |
| DLC | Auto Off Time Switch | Lighting w/ No Controls | Other Inst'l | Lin. Fluor. Lighting | New | building | 13,381 | 7.0% | 0.07 | 8 | \$1,034 | 0% | 0.3 |
| DLC | Central Lighting Control System | Lighting w/ No Controls | Other Inst'l | Lin. Fluor. Lighting | Existing | building | 13,381 | 38% | 0.4 | 8 | \$1,034 | 12% | 1.7 |
| DLC | Central Lighting Control System | Lighting w/ No Controls | Other Inst'l | Lin. Fluor. Lighting | New | building | 13,381 | 14% | 0.1 | 8 | \$1,034 | 12% | 0.6 |
| DLC | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Other Inst'l | Lin. Fluor. Lighting | New | building | 13,381 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.0 |
| DLC | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Other Inst'l | Lin. Fluor. Lighting | New | building | 13,381 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |
| DLC | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Other Inst'l | Lin. Fluor. Lighting | New | building | 13,381 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| DLC | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Other Inst'l | Lin. Fluor. Lighting | Early | Lamp | 172 | 38% | 0.01 | 12 | \$7.3 | 94% | 5.8 |
| DLC | Indoor Daylight Sensors | Lighting w/ No Controls | Other Inst'l | Lin. Fluor. Lighting | Existing | building | 13,381 | 28% | 0.3 | 8 | \$5,088 | 13% | 0.3 |
| DLC | Indoor Daylight Sensors | Lighting w/ No Controls | Other Inst'l | Lin. Fluor. Lighting | New | building | 13,381 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 28W T8 Lamp, Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | Early | Lamp | 38 | 19% | 0.00 | 15 | \$35 | 94% | 0.2 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 40W T12 Lamp, Magnetic Ballast | Other Inst'l | Lin. Fluor. Lighting | Early | Lamp | 83 | 63% | 0.01 | 15 | \$35 | 94% | 1.2 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 28W T5 Lamp, Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | Early | Lamp | 46 | 34% | 0.00 | 15 | \$35 | 94% | 0.4 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 32W T8 Lamp, Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | Early | Lamp | 45 | 32% | 0.00 | 15 | \$35 | 94% | 0.3 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 28W T8 Lamp, Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | New | Lamp | 29 | 19% | 0.00 | 15 | \$28 | 94% | 0.2 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 32W T8 Lamp, Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | New | Lamp | 34 | 32% | 0.00 | 15 | \$29 | 94% | 0.3 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 28W T5 Lamp, Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | New | Lamp | 35 | 34% | 0.00 | 15 | \$22 | 94% | 0.4 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 32W T8 Lamp, Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | New | Lamp | 34 | 32% | 0.00 | 15 | \$29 | 94% | 0.3 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 28W T8 Lamp, Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | ROB | Lamp | 38 | 19% | 0.00 | 15 | \$28 | 94% | 0.2 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 32W T8 Lamp, Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | ROB | Lamp | 45 | 32% | 0.00 | 15 | \$29 | 94% | 0.4 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 28W T5 Lamp, Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | ROB | Lamp | 46 | 34% | 0.00 | 15 | \$22 | 94% | 0.6 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 32W T8 Lamp, Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | ROB | Lamp | 45 | 32% | 0.00 | 15 | \$29 | 94% | 0.4 |
| DLC | Occupancy Sensor | Lighting w/ No Controls | Other Inst'l | Lin. Fluor. Lighting | Existing | building | 13,381 | 24% | 0.2 | 8 | \$1,558 | 12% | 0.7 |
| DLC | Occupancy Sensor | Lighting w/ No Controls | Other Inst'l | Lin. Fluor. Lighting | New | building | 13,381 | 7.0% | 0.07 | 8 | \$1,558 | 0% | 0.2 |
| DLC | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Other Inst'l | Lin. Fluor. Lighting | Existing | building | 13,381 | 28% | 0.3 | 8 | \$5,088 | 11% | 0.3 |
| DLC | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Other Inst'l | Lin. Fluor. Lighting | New | building | 13,381 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|--|--------------|---------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Other Inst'l | Motors | New | motor | 44,940 | 71% | 4.7 | 15 | \$731 | 86% | 32.8 |
| DLC | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Other Inst'l | Motors | ROB | motor | 44,940 | 72% | 4.7 | 15 | \$731 | 86% | 32.8 |
| DLC | Variable Speed Drive Control, 40HP | Existing Motors w/out VSD Drive | Other Inst'l | Motors | Early | motor | 119,841 | 71% | 12.5 | 15 | \$4,666 | 86% | 13.5 |
| DLC | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Other Inst'l | Motors | New | motor | 118,440 | 71% | 12.5 | 15 | \$4,666 | 86% | 13.5 |
| DLC | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Other Inst'l | Motors | ROB | motor | 118,440 | 72% | 12.5 | 15 | \$4,666 | 86% | 13.5 |
| DLC | Variable Speed Drive Control, 5HP | Existing Motors w/out VFD Drive | Other Inst'l | Motors | Early | motor | 15,922 | 71% | 1.7 | 15 | \$2,243 | 86% | 3.8 |
| DLC | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Other Inst'l | Motors | New | motor | 15,566 | 72% | 1.6 | 15 | \$2,243 | 86% | 3.7 |
| DLC | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Other Inst'l | Motors | ROB | motor | 15,566 | 71% | 1.6 | 15 | \$2,243 | 86% | 3.7 |
| DLC | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Other Inst'l | Motors | Early | motor | 5,707 | 20% | 0.1 | 15 | \$268 | 13% | 3.0 |
| DLC | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Other Inst'l | Motors | New | motor | 5,707 | 20% | 0.1 | 15 | \$268 | 13% | 3.0 |
| DLC | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Other Inst'l | Motors | ROB | motor | 5,707 | 20% | 0.1 | 15 | \$268 | 13% | 3.0 |
| DLC | VFD on Chilled Water Pump | Motor w/out VFD Drive | Other Inst'l | Motors | Early | motor | 16,590 | 55% | 2.7 | 15 | \$2,903 | 86% | 2.8 |
| DLC | VFD on Chilled Water Pump | Motor w/out VFD Drive | Other Inst'l | Motors | New | motor | 16,280 | 55% | 2.7 | 15 | \$2,843 | 86% | 2.8 |
| DLC | VFD on Chilled Water Pump | Motor w/out VFD Drive | Other Inst'l | Motors | ROB | motor | 16,280 | 55% | 2.7 | 15 | \$2,843 | 86% | 2.8 |
| DLC | VFD on Condenser Water Pump | Motor w/out VFD Drive | Other Inst'l | Motors | Early | motor | 18,641 | 32% | 3.2 | 15 | \$2,903 | 86% | 2.3 |
| DLC | VFD on Condenser Water Pump | Motor w/out VFD Drive | Other Inst'l | Motors | New | motor | 18,292 | 33% | 3.1 | 15 | \$2,843 | 86% | 2.3 |
| DLC | VFD on Condenser Water Pump | Motor w/out VFD Drive | Other Inst'l | Motors | ROB | motor | 18,292 | 33% | 3.1 | 15 | \$2,843 | 86% | 2.3 |
| DLC | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Other Inst'l | Motors | Early | motor | 27,718 | 56% | 0.00 | 15 | \$2,903 | 86% | 3.2 |
| DLC | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Other Inst'l | Motors | New | motor | 27,199 | 57% | 0.00 | 15 | \$2,843 | 86% | 3.3 |
| DLC | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Other Inst'l | Motors | ROB | motor | 27,199 | 57% | 0.00 | 15 | \$2,843 | 86% | 3.3 |
| DLC | VFD on HVAC Fan | Motor w/out VFD | Other Inst'l | Motors | Early | motor | 18,724 | 70% | 3.4 | 15 | \$2,903 | 86% | 3.9 |
| DLC | VFD on HVAC Fan | Motor w/out VFD | Other Inst'l | Motors | New | motor | 18,373 | 72% | 3.3 | 15 | \$2,843 | 86% | 3.9 |
| DLC | VFD on HVAC Fan | Motor w/out VFD | Other Inst'l | Motors | ROB | motor | 18,373 | 72% | 3.3 | 15 | \$2,843 | 86% | 3.9 |
| DLC | Variable Speed Drives on Process Equipment | Constant speed control | Other Inst'l | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 11.5 |
| DLC | Variable Speed Drives on Process Equipment | Constant speed control | Other Inst'l | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 11.5 |
| DLC | 9W Exit Sign Retrofit: CFL replacing Incandescent | One 23W Single Sided Incandescent Exit Sign | Other Inst'l | Other Int. Lighting | Early | exit sign | 139 | 42% | 0.01 | 15 | \$48 | 22% | 0.9 |
| DLC | Auto Off Time Switch | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | Existing | building | 10,938 | 24% | 0.2 | 8 | \$1,034 | 13% | 0.9 |
| DLC | Auto Off Time Switch | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | New | building | 10,938 | 7.0% | 0.07 | 8 | \$1,034 | 0% | 0.3 |
| DLC | Central Lighting Control System | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | Existing | building | 10,938 | 38% | 0.4 | 8 | \$1,034 | 13% | 1.4 |
| DLC | Central Lighting Control System | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | New | building | 10,938 | 14% | 0.1 | 8 | \$1,034 | 13% | 0.5 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 40W Incandescent Bulb | Other Inst'l | Other Int. Lighting | Early | lamp | 87 | 87% | 0.01 | 15 | \$30 | 14% | 2.0 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | Early | lamp | 62 | 81% | 0.01 | 15 | \$30 | 11% | 1.3 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | New | lamp | 47 | 81% | 0.01 | 15 | \$21 | 14% | 1.4 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | New | lamp | 47 | 81% | 0.01 | 15 | \$23 | 14% | 1.3 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | New | lamp | 47 | 81% | 0.01 | 15 | \$22 | 11% | 1.4 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | ROB | lamp | 62 | 81% | 0.01 | 15 | \$21 | 14% | 1.9 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | ROB | lamp | 62 | 81% | 0.01 | 15 | \$23 | 14% | 1.7 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | ROB | lamp | 62 | 81% | 0.01 | 15 | \$22 | 11% | 1.8 |
| DLC | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Other Inst'l | Other Int. Lighting | Early | lamp | 87 | 75% | 0.01 | 7 | \$73 | 24% | 0.3 |
| DLC | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Other Inst'l | Other Int. Lighting | New | fixture | 95 | 65% | 0.01 | 13 | \$29 | 28% | 1.5 |
| DLC | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | New | lamp | 47 | 65% | 0.01 | 7 | \$29 | 28% | 0.4 |
| DLC | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Other Inst'l | Other Int. Lighting | ROB | fixture | 125 | 65% | 0.01 | 13 | \$29 | 24% | 1.9 |
| DLC | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | ROB | lamp | 62 | 65% | 0.01 | 7 | \$29 | 24% | 0.5 |
| DLC | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Other Inst'l | Other Int. Lighting | Early | lamp | 87 | 75% | 0.01 | 7 | \$3.2 | 24% | 6.9 |
| DLC | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | New | lamp | 47 | 65% | 0.01 | 7 | \$1.8 | 24% | 5.8 |
| DLC | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | ROB | lamp | 62 | 65% | 0.01 | 7 | \$1.8 | 24% | 7.7 |
| DLC | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | ROB | lamp | 62 | 65% | 0.01 | 7 | \$1.8 | 24% | 7.7 |
| DLC | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Other Inst'l | Other Int. Lighting | New | building | 10,938 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.0 |
| DLC | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Other Inst'l | Other Int. Lighting | New | building | 10,938 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |
| DLC | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Other Inst'l | Other Int. Lighting | New | building | 10,938 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| DLC | Indoor Daylight Sensors | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | Existing | building | 10,938 | 28% | 0.3 | 8 | \$5,088 | 13% | 0.2 |
| DLC | Indoor Daylight Sensors | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | New | building | 10,938 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| DLC | LED Exit Signs Single-sided (5W) | Existing Single-Sided Exit Signs (Average: 16 W) | Other Inst'l | Other Int. Lighting | Early | sign | 153 | 87% | 0.02 | 15 | \$48 | 16% | 2.0 |
| DLC | LED Exit Signs Single-sided (5W) | One 9W Single-Sided CFL Exit Sign | Other Inst'l | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 2.2 |
| DLC | LED Exit Signs Single-sided (5W) | One 9W Single-Sided CFL Exit Sign | Other Inst'l | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 2.2 |
| DLC | LED Task Lighting/Screw-In (10W) | 1 15W CFL bulb | Other Inst'l | Other Int. Lighting | Early | lamp | 22 | 33% | 0.00 | 15 | \$9.6 | 24% | 0.6 |
| DLC | LED Task Lighting/Screw-In (10W) | 1 60W Incandescent Bulb | Other Inst'l | Other Int. Lighting | Early | lamp | 89 | 83% | 0.01 | 15 | \$9.6 | 24% | 6.0 |
| DLC | LED Task Lighting/Screw-In (10W) | 1 43W EISA Compliant bulb | Other Inst'l | Other Int. Lighting | New | lamp | 49 | 77% | 0.01 | 15 | \$7.9 | 24% | 3.6 |
| DLC | LED Task Lighting/Screw-In (10W) | 1 43W EISA Compliant bulb | Other Inst'l | Other Int. Lighting | New | lamp | 49 | 77% | 0.01 | 15 | \$7.9 | 24% | 3.6 |
| DLC | LED Task Lighting/Screw-In (10W) | 1 43W EISA Compliant bulb | Other Inst'l | Other Int. Lighting | ROB | lamp | 64 | 77% | 0.01 | 15 | \$7.9 | 24% | 4.8 |
| DLC | LED Task Lighting/Screw-In (10W) | 1 43W EISA Compliant bulb | Other Inst'l | Other Int. Lighting | ROB | lamp | 64 | 77% | 0.01 | 15 | \$7.9 | 24% | 4.8 |
| DLC | Occupancy Sensor | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | Existing | building | 10,938 | 24% | 0.2 | 8 | \$1,558 | 11% | 0.6 |
| DLC | Occupancy Sensor | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | New | building | 10,938 | 7.0% | 0.07 | 8 | \$1,558 | 0% | 0.2 |
| DLC | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | Existing | building | 10,938 | 28% | 0.3 | 8 | \$5,088 | 11% | 0.2 |
| DLC | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | New | building | 10,938 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| DLC | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Other Inst'l | Other Int. Lighting | Early | exit sign | 139 | 100% | 0.02 | 15 | \$173 | 26% | 0.6 |
| DLC | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Other Inst'l | Other Int. Lighting | New | exit sign | 80 | 100% | 0.01 | 15 | \$148 | 31% | 0.4 |
| DLC | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Other Inst'l | Other Int. Lighting | ROB | exit sign | 80 | 100% | 0.01 | 15 | \$148 | 26% | 0.4 |
| DLC | Time Clock Control | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | Existing | building | 10,938 | 28% | 0.3 | 8 | \$1,034 | 13% | 1.0 |
| DLC | Time Clock Control | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | New | building | 10,938 | 4.1% | 0.04 | 8 | \$1,034 | 0% | 0.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|---|--------------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Other Inst'l | Plug Load | Existing | building | 681 | 46% | 0.5 | 5 | \$189 | 4% | 1.2 |
| DLC | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Other Inst'l | Plug Load | New | building | 681 | 46% | 0.5 | 5 | \$189 | 4% | 1.2 |
| DLC | Data Center - Server/Storage Consolidation | No Consolidation | Other Inst'l | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| DLC | Data Center - Server/Storage Consolidation | No Consolidation | Other Inst'l | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| DLC | Data Center - Server/Storage Virtualization | No Virtualization | Other Inst'l | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| DLC | Data Center - Server/Storage Virtualization | No Virtualization | Other Inst'l | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| DLC | Energy Star - Scanners | Std Scanner | Other Inst'l | Plug Load | New | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| DLC | Energy Star - Scanners | Std Scanner | Other Inst'l | Plug Load | ROB | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| DLC | Energy Star Dishwasher | Existing Dishwasher units | Other Inst'l | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,580 | 1% | 1.1 |
| DLC | Energy Star Dishwasher | Standard Dishwasher unit | Other Inst'l | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 1% | 3.5 |
| DLC | Energy Star Dishwasher | Standard Dishwasher unit | Other Inst'l | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 1% | 3.5 |
| DLC | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Other Inst'l | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 17% | 0.2 |
| DLC | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Other Inst'l | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.1 |
| DLC | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Other Inst'l | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.1 |
| DLC | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Other Inst'l | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 9% | 0.7 |
| DLC | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Other Inst'l | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.5 |
| DLC | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Other Inst'l | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.5 |
| DLC | ENERGY STAR® Copiers | 10% Less Efficient Copier | Other Inst'l | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 18% | 0.0 |
| DLC | ENERGY STAR® Copiers | One Conventional Copier | Other Inst'l | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| DLC | ENERGY STAR® Copiers | One Conventional Copier | Other Inst'l | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| DLC | ENERGY STAR® desktop | Standard computer | Other Inst'l | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 69% | 0.1 |
| DLC | ENERGY STAR® desktop | Standard computer | Other Inst'l | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.1 |
| DLC | ENERGY STAR® desktop | Standard computer | Other Inst'l | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.1 |
| DLC | ENERGY STAR® Fax | 10% Less Efficient Fax | Other Inst'l | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 15% | 0.0 |
| DLC | ENERGY STAR® Fax | One Conventional Fax | Other Inst'l | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.1 |
| DLC | ENERGY STAR® Fax | One Conventional Fax | Other Inst'l | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.1 |
| DLC | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Other Inst'l | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 70% | 0.0 |
| DLC | ENERGY STAR® Monitors | One Conventional Monitor | Other Inst'l | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| DLC | ENERGY STAR® Monitors | One Conventional Monitor | Other Inst'l | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| DLC | ENERGY STAR® Printers | 10% Less Efficient Printer | Other Inst'l | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 44% | 0.0 |
| DLC | ENERGY STAR® Printers | One Conventional Printer | Other Inst'l | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| DLC | ENERGY STAR® Printers | One Conventional Printer | Other Inst'l | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| DLC | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Other Inst'l | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 43% | 0.1 |
| DLC | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Other Inst'l | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.8 |
| DLC | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Other Inst'l | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.8 |
| DLC | ENERGY STAR® Televisions | 10% Less Efficient Television | Other Inst'l | Plug Load | Early | Unit | 111 | 38% | 0.01 | 6 | \$672 | 40% | 0.0 |
| DLC | ENERGY STAR® Televisions | One Conventional Television | Other Inst'l | Plug Load | New | Unit | 101 | 32% | 0.01 | 6 | \$206 | 40% | 0.0 |
| DLC | ENERGY STAR® Televisions | One Conventional Television | Other Inst'l | Plug Load | ROB | Unit | 101 | 32% | 0.01 | 6 | \$206 | 40% | 0.0 |
| DLC | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Other Inst'l | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 24% | 0.3 |
| DLC | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Other Inst'l | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.7 |
| DLC | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Other Inst'l | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.7 |
| DLC | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Other Inst'l | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.3 |
| DLC | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Other Inst'l | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.3 |
| DLC | Network PC Power Management | No PC Power Management | Other Inst'l | Plug Load | Existing | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 9.3 |
| DLC | Network PC Power Management | No PC Power Management | Other Inst'l | Plug Load | New | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 9.3 |
| DLC | Smart Strip Plug Outlets | Standard plug strip/outlet | Other Inst'l | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.2 |
| DLC | Smart Strip Plug Outlets | Standard plug strip/outlet | Other Inst'l | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.2 |
| DLC | Smart Strip Plug Outlets | Standard plug strip/outlet | Other Inst'l | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| DLC | Smart Strip Plug Outlets | Standard plug strip/outlet | Other Inst'l | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| DLC | Smart Strip Plug Outlets | Standard plug strip/outlet | Other Inst'l | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| DLC | Smart Strip Plug Outlets | Standard plug strip/outlet | Other Inst'l | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| DLC | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Other Inst'l | Plug Load | Existing | building | 681 | 46% | 0.5 | 5 | \$180 | 3% | 1.3 |
| DLC | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Other Inst'l | Plug Load | New | building | 681 | 46% | 0.5 | 5 | \$180 | 3% | 1.3 |
| DLC | Auto Closer on Refrigerator Door | Door w/out Autocloser | Other Inst'l | Refrigeration | Existing | building | 2,552 | 53% | 0.5 | 8 | \$747 | 40% | 1.0 |
| DLC | Auto Closer on Refrigerator Door | Door w/out Autocloser | Other Inst'l | Refrigeration | Existing | building | 2,399 | 31% | 0.3 | 8 | \$763 | 40% | 0.5 |
| DLC | Auto Closer on Refrigerator Door | Door w/out Autocloser | Other Inst'l | Refrigeration | New | building | 2,552 | 53% | 0.5 | 8 | \$747 | 40% | 1.0 |
| DLC | Auto Closer on Refrigerator Door | Door w/out Autocloser | Other Inst'l | Refrigeration | New | building | 2,399 | 31% | 0.3 | 8 | \$763 | 40% | 0.5 |
| DLC | Door Gasket- Freezer | Door w/out Gasket | Other Inst'l | Refrigeration | Existing | building | 2,552 | 29% | 0.3 | 4 | \$77 | 29% | 2.6 |
| DLC | Door Gasket- Freezer | Door w/out Gasket | Other Inst'l | Refrigeration | New | building | 2,552 | 32% | 0.3 | 4 | \$77 | 29% | 2.8 |
| DLC | Door Gasket- Refrigerator | Door w/out Gasket | Other Inst'l | Refrigeration | Existing | building | 2,399 | 9.5% | 0.10 | 4 | \$105 | 45% | 0.6 |
| DLC | Door Gasket- Refrigerator | Door w/out Gasket | Other Inst'l | Refrigeration | New | building | 2,399 | 9.5% | 0.10 | 4 | \$105 | 45% | 0.6 |
| DLC | eCube | Refrigeration unit w/out eCube | Other Inst'l | Refrigeration | Existing | building | 2,399 | 15% | 0.2 | 15 | \$700 | 57% | 0.5 |
| DLC | eCube | Refrigeration unit w/out eCube | Other Inst'l | Refrigeration | New | building | 2,399 | 15% | 0.2 | 15 | \$700 | 57% | 0.5 |
| DLC | Efficient compressor motor | Base Refrigeration System - Grocery | Other Inst'l | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.3 |
| DLC | Efficient compressor motor | Base Refrigeration System - Grocery | Other Inst'l | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.3 |
| DLC | Efficient compressor motor | Base Refrigeration System - Grocery | Other Inst'l | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.3 |
| DLC | Efficient compressor motor | Base Refrigeration System - Grocery | Other Inst'l | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|---|--------------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Other Inst'l | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.6 |
| DLC | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Other Inst'l | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| DLC | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Other Inst'l | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| DLC | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Other Inst'l | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.3 |
| DLC | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Other Inst'l | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.8 |
| DLC | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Other Inst'l | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.8 |
| DLC | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Other Inst'l | Refrigeration | Existing | building | 2,399 | 3.4% | 0.03 | 10 | \$369 | 77% | 0.2 |
| DLC | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Other Inst'l | Refrigeration | New | building | 2,399 | 3.4% | 0.03 | 10 | \$369 | 77% | 0.2 |
| DLC | Floating head pressure controller | System w/out FHPC | Other Inst'l | Refrigeration | Existing | building | 2,552 | 9.0% | 0.05 | 15 | \$8,682 | 41% | 0.0 |
| DLC | Floating head pressure controller | System w/out FHPC | Other Inst'l | Refrigeration | Existing | building | 2,399 | 3.4% | 0.02 | 15 | \$8,682 | 41% | 0.0 |
| DLC | Floating head pressure controller | System w/out FHPC | Other Inst'l | Refrigeration | New | building | 2,552 | 9.0% | 0.05 | 15 | \$8,682 | 41% | 0.0 |
| DLC | Floating head pressure controller | System w/out FHPC | Other Inst'l | Refrigeration | New | building | 2,399 | 3.4% | 0.02 | 15 | \$8,682 | 41% | 0.0 |
| DLC | High Efficiency Commercial Freezer | Std. Commercial Freezer | Other Inst'l | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 86% | 0.4 |
| DLC | High Efficiency Commercial Freezer | Std. Commercial Freezer | Other Inst'l | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 4.4 |
| DLC | High Efficiency Commercial Freezer | Std. Commercial Freezer | Other Inst'l | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 4.4 |
| DLC | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Other Inst'l | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 2% | 0.1 |
| DLC | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Other Inst'l | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$406 | 2% | 1.0 |
| DLC | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Other Inst'l | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$406 | 2% | 1.0 |
| DLC | High Efficiency Ice Maker | Exisiting Standard Efficiency Ice Maker in Pennsylvania | Other Inst'l | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 73% | 0.2 |
| DLC | High Efficiency Ice Maker | Standard code minimum Ice Maker | Other Inst'l | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| DLC | High Efficiency Ice Maker | Standard code minimum Ice Maker | Other Inst'l | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| DLC | High Efficiency Ice Making Head | Standard Ice Making Head | Other Inst'l | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 4.1 |
| DLC | High Efficiency Ice Making Head | Standard Ice Making Head | Other Inst'l | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 4.1 |
| DLC | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Other Inst'l | Refrigeration | Early | Fixture | 373 | 56% | 0.01 | 8 | \$448 | 47% | 0.1 |
| DLC | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Other Inst'l | Refrigeration | New | Fixture | 291 | 44% | 0.00 | 8 | \$139 | 47% | 0.3 |
| DLC | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Other Inst'l | Refrigeration | ROB | Fixture | 291 | 44% | 0.00 | 8 | \$139 | 47% | 0.3 |
| DLC | Quick acting freezer doors | Std. Freezer Doors | Other Inst'l | Refrigeration | Existing | building | 2,552 | 13% | 0.1 | 10 | \$405 | 56% | 0.5 |
| DLC | Quick acting freezer doors | Std. Freezer Doors | Other Inst'l | Refrigeration | New | building | 2,552 | 13% | 0.1 | 10 | \$405 | 56% | 0.5 |
| DLC | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Other Inst'l | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 30% | 0.5 |
| DLC | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Other Inst'l | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.8 |
| DLC | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Other Inst'l | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.8 |
| DLC | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 30% | 1.8 |
| DLC | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 3.3 |
| DLC | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 3.3 |
| DLC | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 30% | 1.9 |
| DLC | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 4.4 |
| DLC | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 4.4 |
| DLC | Refrigeration Commissioning | Non-commissioned refrigeration system | Other Inst'l | Refrigeration | Existing | building | 5,105 | 9.5% | 0.10 | 3 | \$1,204 | 85% | 0.1 |
| DLC | Refrigeration Commissioning | Non-commissioned refrigeration system | Other Inst'l | Refrigeration | New | building | 5,105 | 9.5% | 0.10 | 3 | \$1,204 | 85% | 0.1 |
| DLC | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Other Inst'l | Refrigeration | Existing | building | 2,552 | 59% | 0.6 | 4 | \$80 | 22% | 5.0 |
| DLC | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Other Inst'l | Refrigeration | Existing | building | 2,399 | 12% | 0.1 | 4 | \$117 | 22% | 0.7 |
| DLC | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Other Inst'l | Refrigeration | New | building | 2,552 | 59% | 0.6 | 4 | \$80 | 22% | 5.0 |
| DLC | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Other Inst'l | Refrigeration | New | building | 2,399 | 12% | 0.1 | 4 | \$117 | 22% | 0.7 |
| DLC | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Other Inst'l | Refrigeration | Existing | building | 2,552 | 12% | 0.1 | 11 | \$119 | 79% | 1.8 |
| DLC | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Other Inst'l | Refrigeration | New | building | 2,552 | 12% | 0.1 | 11 | \$119 | 79% | 1.8 |
| DLC | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Other Inst'l | Refrigeration | Existing | building | 2,399 | 8.9% | 0.09 | 11 | \$119 | 79% | 1.4 |
| DLC | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Other Inst'l | Refrigeration | New | building | 2,399 | 8.9% | 0.09 | 11 | \$119 | 79% | 1.4 |
| DLC | VSD Controlled Compressor | Compressor w/out VSD | Other Inst'l | Refrigeration | Early | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.2 |
| DLC | VSD Controlled Compressor | Compressor w/out VSD | Other Inst'l | Refrigeration | New | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.2 |
| DLC | VSD Controlled Compressor | Compressor w/out VSD | Other Inst'l | Refrigeration | ROB | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.2 |
| DLC | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Other Inst'l | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$268 | 35% | 1.0 |
| DLC | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Other Inst'l | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$268 | 35% | 1.0 |
| DLC | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Other Inst'l | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.5 |
| DLC | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Other Inst'l | Refrigeration | New | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 3.3 |
| DLC | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Other Inst'l | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.5 |
| DLC | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Other Inst'l | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 3.3 |
| DLC | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 35% | 2.7 |
| DLC | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 35% | 2.5 |
| DLC | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 5.7 |
| DLC | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 5.4 |
| DLC | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 5.7 |
| DLC | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 5.4 |
| DLC | Adding reflective roof treatment | Std color roof | Other Inst'l | Space Heating | Existing | building | 4,569 | 7.1% | 0.07 | 6 | \$12,489 | 82% | 0.0 |
| DLC | Adding reflective roof treatment | Std color roof | Other Inst'l | Space Heating | New | building | 4,569 | 7.1% | 0.07 | 6 | \$12,489 | 82% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|--|--------------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Adding window shade film | No shade film | Other Inst'l | Space Heating | Existing | building | 4,569 | 1.3% | 0.4 | 10 | \$56 | 13% | 5.1 |
| DLC | Adding window shade film | No shade film | Other Inst'l | Space Heating | New | building | 4,569 | 1.3% | 0.4 | 10 | \$56 | 13% | 5.1 |
| DLC | Adding window shade screen | No shade screen | Other Inst'l | Space Heating | Existing | building | 4,569 | 1.1% | 0.01 | 10 | \$22 | 13% | 1.2 |
| DLC | Adding window shade screen | No shade screen | Other Inst'l | Space Heating | New | building | 4,569 | 1.1% | 0.01 | 10 | \$22 | 13% | 1.2 |
| DLC | Automated control system | Manual Controls | Other Inst'l | Space Heating | Existing | building | 4,569 | 17% | 0.2 | 15 | \$5,002 | 51% | 0.1 |
| DLC | Automated control system | Manual Controls | Other Inst'l | Space Heating | New | building | 4,569 | 17% | 0.2 | 15 | \$5,002 | 94% | 0.1 |
| DLC | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Other Inst'l | Space Heating | Existing | building | 4,569 | 7.2% | 0.07 | 15 | \$17,130 | 71% | 0.0 |
| DLC | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Other Inst'l | Space Heating | New | building | 4,569 | 2.4% | 0.02 | 15 | \$16,283 | 94% | 0.0 |
| DLC | Duct Insulation, Add R8 | No Insulation | Other Inst'l | Space Heating | Existing | building | 4,569 | 1.4% | 0.04 | 15 | \$36 | 20% | 2.1 |
| DLC | Duct Insulation, Add R8 | No Insulation | Other Inst'l | Space Heating | New | building | 4,569 | 1.4% | 0.04 | 15 | \$36 | 10% | 2.1 |
| DLC | Efficient Unit Heating System | Existing Unit Heaters in PA | Other Inst'l | Space Heating | Early | heater | 30,613 | 23% | 0.05 | 15 | \$3,289 | 83% | 1.3 |
| DLC | Efficient Unit Heating System | Std. Unit Heater | Other Inst'l | Space Heating | New | heater | 27,169 | 13% | 0.03 | 15 | \$1,991 | 83% | 1.1 |
| DLC | Efficient Unit Heating System | Std. Unit Heater | Other Inst'l | Space Heating | ROB | heater | 27,169 | 13% | 0.03 | 15 | \$1,991 | 83% | 1.1 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Other Inst'l | Space Heating | Existing | building | 4,569 | 7.1% | 0.07 | 15 | \$20,269 | 25% | 0.0 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Other Inst'l | Space Heating | New | building | 4,569 | 7.1% | 0.07 | 15 | \$20,269 | 35% | 0.0 |
| DLC | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Other Inst'l | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 1.1 |
| DLC | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Other Inst'l | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 1.1 |
| DLC | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Other Inst'l | Space Heating | Existing | building | 4,569 | 1.1% | 0.01 | 10 | \$7,735 | 81% | 0.0 |
| DLC | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Other Inst'l | Space Heating | New | building | 4,569 | 1.1% | 0.01 | 10 | \$7,735 | 81% | 0.0 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Other Inst'l | Space Heating | Existing | building | 4,569 | 3.6% | 0.04 | 11 | \$286 | 49% | 0.3 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Other Inst'l | Space Heating | New | building | 4,569 | 3.1% | 0.03 | 11 | \$146 | 49% | 0.6 |
| DLC | Re-Commissioning (Existing Construction) | No Re-Commissioning | Other Inst'l | Space Heating | Existing | building | 4,569 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |
| DLC | VFD on Cooling Tower Fan | Motor w/out VFD | Other Inst'l | Space Heating | Early | motor | 18,724 | 70% | 3.4 | 15 | \$2,843 | 88% | 3.9 |
| DLC | VFD on Cooling Tower Fan | Motor w/out VFD | Other Inst'l | Space Heating | New | motor | 18,373 | 72% | 3.3 | 15 | \$2,843 | 88% | 3.9 |
| DLC | VFD on Cooling Tower Fan | Motor w/out VFD | Other Inst'l | Space Heating | ROB | motor | 18,373 | 72% | 3.3 | 15 | \$2,843 | 88% | 3.9 |
| DLC | Wall Insualtions (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Other Inst'l | Space Heating | Existing | building | 4,569 | 13% | 0.1 | 15 | \$3,285 | 26% | 0.1 |
| DLC | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Other Inst'l | Space Heating | New | building | 4,569 | 0.3% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| DLC | 80W Induction Street Lighting | One 100W HPS Street Light Fixture | Other Inst'l | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 0% | 0.3 |
| DLC | 80W Induction Street Lighting | One 100W HPS Street Light Fixture | Other Inst'l | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.9 |
| DLC | 80W Induction Street Lighting | One 100W HPS Street Light Fixture | Other Inst'l | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.9 |
| DLC | Green LED Traffic Light | Green Incandescent Traffic Light | Other Inst'l | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 0% | 1.3 |
| DLC | Green LED Traffic Light | Green Incandescent Traffic Light | Other Inst'l | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.2 |
| DLC | Green LED Traffic Light | Green Incandescent Traffic Light | Other Inst'l | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.2 |
| DLC | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Other Inst'l | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 0% | 3.1 |
| DLC | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Other Inst'l | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| DLC | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Other Inst'l | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| DLC | LED Street Lighting (67W) | One 100W HPS Street Light | Other Inst'l | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 0% | 0.2 |
| DLC | LED Street Lighting (67W) | One 100W HPS Street Light | Other Inst'l | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.4 |
| DLC | LED Street Lighting (67W) | One 100W HPS Street Light | Other Inst'l | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.4 |
| DLC | Red LED Traffic Light | One Red Incandescent Traffic Light | Other Inst'l | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 0% | 1.7 |
| DLC | Red LED Traffic Light | One Red Incandescent Traffic Light | Other Inst'l | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| DLC | Red LED Traffic Light | One Red Incandescent Traffic Light | Other Inst'l | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| DLC | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Other Inst'l | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 0% | 0.1 |
| DLC | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Other Inst'l | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| DLC | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Other Inst'l | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| DLC | Demand controlled Circulating Systems | Constant circulation system | Other Inst'l | Water Heating | Existing | building | 4,275 | 20% | 0.2 | 15 | \$776 | 59% | 0.9 |
| DLC | Demand controlled Circulating Systems | Constant circulation system | Other Inst'l | Water Heating | New | building | 4,275 | 20% | 0.2 | 15 | \$776 | 59% | 0.9 |
| DLC | Drainwater Heat Recovery Water Heater | No heat recovery | Other Inst'l | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 2.1 |
| DLC | Drainwater Heat Recovery Water Heater | No heat recovery | Other Inst'l | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 2.1 |
| DLC | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Other Inst'l | Water Heating | Existing | building | 4,275 | 5.9% | 0.06 | 12 | \$42 | 85% | 4.1 |
| DLC | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Other Inst'l | Water Heating | New | building | 4,275 | 5.9% | 0.06 | 12 | \$12 | 85% | 14.2 |
| DLC | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Other Inst'l | Water Heating | Early | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 3.1 |
| DLC | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Other Inst'l | Water Heating | Early | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 3.1 |
| DLC | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Other Inst'l | Water Heating | New | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 3.1 |
| DLC | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Other Inst'l | Water Heating | New | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 3.1 |
| DLC | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Other Inst'l | Water Heating | ROB | water heater | 10,350 | 65% | 1.2 | 10 | \$1,187 | 68% | 2.9 |
| DLC | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Other Inst'l | Water Heating | ROB | water heater | 10,350 | 65% | 1.2 | 10 | \$1,187 | 68% | 2.9 |
| DLC | Heat Recovery Unit | Base Water Heating | Other Inst'l | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.8 |
| DLC | Heat Recovery Unit | Base Water Heating | Other Inst'l | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.8 |
| DLC | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Other Inst'l | Water Heating | Early | water heater | 10,645 | 5.9% | 0.1 | 15 | \$307 | 79% | 1.6 |
| DLC | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Other Inst'l | Water Heating | Early | water heater | 10,645 | 5.9% | 0.1 | 15 | \$307 | 79% | 1.6 |
| DLC | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Other Inst'l | Water Heating | New | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.8 |
| DLC | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Other Inst'l | Water Heating | New | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.8 |
| DLC | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Other Inst'l | Water Heating | ROB | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.8 |
| DLC | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Other Inst'l | Water Heating | ROB | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.8 |
| DLC | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Other Inst'l | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$466 | 81% | 43.7 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|---|--------------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Other Inst'l | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 22.8 |
| DLC | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Other Inst'l | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 22.8 |
| DLC | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Other Inst'l | Water Heating | Existing | building | 4,275 | 0.8% | 0.01 | 13 | \$4.9 | 68% | 5.1 |
| DLC | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Other Inst'l | Water Heating | New | building | 4,275 | 0.8% | 0.01 | 13 | \$4.9 | 0% | 5.1 |
| DLC | Hot Water Circulation Pump Time-Clock | Constant circulation system | Other Inst'l | Water Heating | Existing | building | 4,275 | 5.3% | 0.05 | 10 | \$17 | 72% | 7.4 |
| DLC | Hot Water Circulation Pump Time-Clock | Constant circulation system | Other Inst'l | Water Heating | New | building | 4,275 | 5.3% | 0.05 | 10 | \$17 | 72% | 7.3 |
| DLC | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Other Inst'l | Water Heating | Existing | building | 4,275 | 0.9% | 0.01 | 7 | \$22 | 78% | 0.7 |
| DLC | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Other Inst'l | Water Heating | New | building | 4,275 | 0.8% | 0.01 | 7 | \$0.5 | 78% | 24.9 |
| DLC | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Other Inst'l | Water Heating | Existing | building | 4,275 | 4.5% | 0.05 | 5 | \$300 | 0% | 0.2 |
| DLC | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Other Inst'l | Water Heating | New | building | 4,275 | 3.0% | 0.03 | 5 | \$194 | 0% | 0.2 |
| DLC | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Other Inst'l | Water Heating | Existing | building | 4,275 | 6.5% | 0.07 | 9 | \$25 | 2% | 5.5 |
| DLC | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Other Inst'l | Water Heating | New | building | 4,275 | 6.5% | 0.07 | 9 | \$6.0 | 2% | 23.1 |
| DLC | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Other Inst'l | Water Heating | Early | water heater | 10,645 | 52% | 0.4 | 15 | \$6,222 | 32% | 0.6 |
| DLC | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Other Inst'l | Water Heating | New | water heater | 10,350 | 51% | 0.4 | 15 | \$6,222 | 32% | 0.6 |
| DLC | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Other Inst'l | Water Heating | ROB | water heater | 10,350 | 51% | 0.4 | 15 | \$6,222 | 32% | 0.6 |
| DLC | Ultrasonic Faucet Control | Manual Faucet Control | Other Inst'l | Water Heating | Existing | building | 4,275 | 3.0% | 0.03 | 10 | \$739 | 77% | 0.1 |
| DLC | Ultrasonic Faucet Control | Manual Faucet Control | Other Inst'l | Water Heating | New | building | 4,275 | 3.0% | 0.03 | 10 | \$739 | 77% | 0.1 |
| DLC | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Other Inst'l | Water Heating | Existing | building | 4,275 | 2.2% | 0.02 | 4 | \$28 | 83% | 0.8 |
| DLC | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Other Inst'l | Water Heating | New | building | 4,275 | 2.3% | 0.02 | 4 | \$28 | 83% | 0.8 |
| DLC | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Restaurant | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 57% | 1.2 |
| DLC | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Restaurant | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 57% | 1.2 |
| DLC | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Restaurant | Cooking | Early | steamer | 51 | 46% | 0.00 | 12 | \$5,053 | 81% | 0.0 |
| DLC | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Restaurant | Cooking | New | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| DLC | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Restaurant | Cooking | ROB | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| DLC | Electric combination oven (Energy Star) | Standard Oven | Restaurant | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 73% | 3.3 |
| DLC | Electric combination oven (Energy Star) | Standard Oven | Restaurant | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 73% | 3.3 |
| DLC | Electric Convection Oven ENERTY STAR (74% Eff) | Conventional convection oven w/ 65% efficiency | Restaurant | Cooking | Early | oven | 8,641 | 37% | 0.6 | 12 | \$4,119 | 81% | 0.5 |
| DLC | Electric Convection Oven ENERTY STAR (74% Eff) | Conventional convection oven w/ 70% efficiency | Restaurant | Cooking | New | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.8 |
| DLC | Electric Convection Oven ENERTY STAR (74% Eff) | Conventional convection oven w/ 70% efficiency | Restaurant | Cooking | ROB | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.8 |
| DLC | High Efficiency Fryer (ENERGY STAR 84% Eff) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Restaurant | Cooking | Early | fryer | 6,105 | 23% | 0.3 | 12 | \$9,241 | 86% | 0.1 |
| DLC | High Efficiency Fryer (ENERGY STAR 84% Eff) | Standard Electric Fryer meeting Code Minimum | Restaurant | Cooking | New | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.4 |
| DLC | High Efficiency Fryer (ENERGY STAR 84% Eff) | Standard Electric Fryer meeting Code Minimum | Restaurant | Cooking | ROB | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.4 |
| DLC | High Efficiency Griddle (ENERGY STAR 75% Eff) | Efficiency code minimum griddle (70% eff) | Restaurant | Cooking | Early | griddle | 11,317 | 65% | 1.4 | 12 | \$4,977 | 86% | 1.0 |
| DLC | High Efficiency Griddle (ENERGY STAR 75% Eff) | Conventional Griddle w/ 60% efficiency | Restaurant | Cooking | New | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.3 |
| DLC | High Efficiency Griddle (ENERGY STAR 75% Eff) | Conventional Griddle w/ 60% efficiency | Restaurant | Cooking | ROB | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.3 |
| DLC | High Efficiency Induction Cooking | Standard Cooking | Restaurant | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 76% | 0.2 |
| DLC | High Efficiency Induction Cooking | Standard Cooking | Restaurant | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 76% | 0.2 |
| DLC | Solid-state temperature controls | No Solid State Controls | Restaurant | Cooking | Existing | building | 36,032 | 3.6% | 0.04 | 12 | \$162 | 32% | 4.1 |
| DLC | Adding reflective roof treatment | Std color roof | Restaurant | Cooling Central | Existing | building | 2,765 | 7.0% | 0.07 | 6 | \$19,530 | 82% | 0.0 |
| DLC | Adding reflective roof treatment | Std color roof | Restaurant | Cooling Central | New | building | 2,765 | 7.0% | 0.07 | 6 | \$19,530 | 82% | 0.0 |
| DLC | Adding window shade film | No shade film | Restaurant | Cooling Central | Existing | building | 2,765 | 1.3% | 0.4 | 10 | \$34 | 12% | 8.2 |
| DLC | Adding window shade film | No shade film | Restaurant | Cooling Central | New | building | 2,765 | 1.3% | 0.4 | 10 | \$34 | 13% | 8.2 |
| DLC | Adding window shade screen | No shade screen | Restaurant | Cooling Central | Existing | building | 2,765 | 1.0% | 0.01 | 10 | \$13 | 13% | 1.4 |
| DLC | Adding window shade screen | No shade screen | Restaurant | Cooling Central | New | building | 2,765 | 1.1% | 0.01 | 10 | \$13 | 13% | 1.4 |
| DLC | Automated control system | Manual Controls | Restaurant | Cooling Central | Existing | building | 2,765 | 17% | 0.2 | 15 | \$3,027 | 51% | 0.1 |
| DLC | Automated control system | Manual Controls | Restaurant | Cooling Central | New | building | 2,765 | 17% | 0.2 | 15 | \$3,027 | 94% | 0.1 |
| DLC | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Restaurant | Cooling Central | Existing | building | 2,765 | 8.9% | 0.09 | 15 | \$26,661 | 71% | 0.0 |
| DLC | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Restaurant | Cooling Central | New | building | 2,765 | 3.0% | 0.03 | 15 | \$25,342 | 94% | 0.0 |
| DLC | Chiller Tuneup/Diagnostics | No tuneup | Restaurant | Cooling Central | Existing | building | 2,765 | 8.0% | 0.08 | 10 | \$7,060 | 59% | 0.0 |
| DLC | Chiller Tuneup/Diagnostics | No tuneup | Restaurant | Cooling Central | New | building | 2,765 | 8.0% | 0.08 | 10 | \$7,060 | 59% | 0.0 |
| DLC | Commercial energy recovery ventilation systems | No Commercial Recovery System | Restaurant | Cooling Central | Existing | building | 2,765 | 16% | 0.2 | 14 | \$2,498 | 71% | 0.2 |
| DLC | Cooling Tower Optimization | No Cooling Tower Optimization | Restaurant | Cooling Central | Existing | building | 2,765 | 20% | 0.2 | 10 | \$17 | 69% | 20.8 |
| DLC | Duct Insulation, Add R8 | No Insulation | Restaurant | Cooling Central | Existing | building | 2,765 | 1.4% | 0.04 | 15 | \$22 | 20% | 2.8 |
| DLC | Duct Insulation, Add R8 | No Insulation | Restaurant | Cooling Central | New | building | 2,765 | 1.4% | 0.04 | 15 | \$22 | 10% | 2.8 |
| DLC | Facility Commissioning | No Facility Commissioning | Restaurant | Cooling Central | New | building | 2,765 | 16% | 0.2 | 10 | \$7,882 | 89% | 0.0 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Restaurant | Cooling Central | Existing | building | 2,765 | 7.0% | 0.07 | 15 | \$12,264 | 25% | 0.0 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Restaurant | Cooling Central | New | building | 2,765 | 7.0% | 0.07 | 15 | \$12,264 | 35% | 0.0 |
| DLC | Hi Eff HVAC System Design | No HVAC Design | Restaurant | Cooling Central | New | building | 2,765 | 12% | 0.1 | 10 | \$111,391 | 51% | 0.0 |
| DLC | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | Early | ton | 5,094 | 24% | 0.4 | 15 | \$108,550 | 88% | 0.0 |
| DLC | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | New | ton | 4,164 | 6.7% | 0.10 | 15 | \$12,927 | 88% | 0.0 |
| DLC | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | ROB | ton | 4,164 | 6.7% | 0.10 | 15 | \$12,927 | 88% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|--|------------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | Early | ton | 7,611 | 23% | 0.6 | 15 | \$140,105 | 88% | 0.0 |
| DLC | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | New | ton | 6,124 | 4.8% | 0.1 | 15 | \$9,336 | 88% | 0.0 |
| DLC | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | ROB | ton | 6,124 | 4.8% | 0.1 | 15 | \$9,336 | 88% | 0.0 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | Early | ton | 62,308 | 26% | 5.6 | 15 | \$105,354 | 88% | 0.1 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | New | ton | 54,288 | 15% | 2.8 | 15 | \$30,530 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | ROB | ton | 54,288 | 15% | 2.8 | 15 | \$30,530 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | Early | ton | 93,320 | 23% | 7.4 | 15 | \$154,107 | 88% | 0.1 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | New | ton | 85,726 | 16% | 4.8 | 15 | \$27,646 | 88% | 0.5 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | ROB | ton | 93,320 | 23% | 7.4 | 15 | \$27,646 | 88% | 0.7 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | Early | ton | 154,988 | 23% | 12.2 | 15 | \$302,924 | 88% | 0.1 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | New | ton | 140,275 | 14% | 7.0 | 15 | \$115,432 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | ROB | ton | 154,988 | 23% | 12.2 | 15 | \$115,432 | 88% | 0.3 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | Early | ton | 185,985 | 23% | 14.6 | 15 | \$350,154 | 88% | 0.1 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | New | ton | 168,330 | 14% | 8.5 | 15 | \$120,406 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | ROB | ton | 185,985 | 23% | 14.6 | 15 | \$120,406 | 88% | 0.3 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | Early | ton | 41,225 | 29% | 4.2 | 15 | \$83,632 | 88% | 0.1 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | New | ton | 32,011 | 8.9% | 1.0 | 15 | \$40,211 | 88% | 0.1 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | ROB | ton | 41,225 | 29% | 4.2 | 15 | \$40,211 | 88% | 0.3 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | Early | ton | 70,835 | 35% | 8.6 | 15 | \$132,173 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | New | ton | 52,831 | 13% | 2.3 | 15 | \$39,556 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | ROB | ton | 52,831 | 13% | 2.3 | 15 | \$39,556 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | Early | ton | 118,265 | 39% | 16.1 | 15 | \$187,029 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | New | ton | 84,321 | 15% | 4.3 | 15 | \$33,554 | 88% | 0.3 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | ROB | ton | 118,265 | 39% | 16.1 | 15 | \$33,554 | 88% | 1.3 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | Early | ton | 20,695 | 30% | 2.1 | 15 | \$32,398 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | New | ton | 16,396 | 11% | 0.6 | 15 | \$7,188 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | ROB | ton | 20,695 | 30% | 2.1 | 15 | \$7,188 | 88% | 0.8 |
| DLC | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Restaurant | Cooling Central | Existing | building | 2,765 | 3.5% | 0.04 | 10 | \$2,513 | 81% | 0.0 |
| DLC | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) HVAC system w/ Manual Thermostat (Code Min Eff) | Restaurant | Cooling Central | New | building | 2,765 | 3.5% | 0.04 | 10 | \$2,513 | 81% | 0.0 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Restaurant | Cooling Central | Existing | building | 2,765 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.1 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Restaurant | Cooling Central | New | building | 2,765 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.2 |
| DLC | Re-Commissioning (Existing Construction) | No Re-Commissioning | Restaurant | Cooling Central | Existing | building | 2,765 | 16% | 0.2 | 5 | \$12,732 | 86% | 0.0 |
| DLC | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Restaurant | Cooling Central | Existing | building | 2,765 | 12% | 0.1 | 15 | \$6,404 | 26% | 0.0 |
| DLC | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Restaurant | Cooling Central | New | building | 2,765 | 0.5% | 0.01 | 15 | \$4,912 | 94% | 0.0 |
| DLC | <65k BTU/hr 14 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Restaurant | Cooling Unitary | Early | ton | 1,932 | 16% | 0.2 | 15 | \$1,545 | 29% | 0.3 |
| DLC | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Restaurant | Cooling Unitary | New | ton | 1,750 | 7.1% | 0.10 | 15 | \$339 | 29% | 0.5 |
| DLC | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Restaurant | Cooling Unitary | ROB | ton | 1,750 | 7.1% | 0.10 | 15 | \$339 | 29% | 0.5 |
| DLC | <65k BTU/hr 15 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Restaurant | Cooling Unitary | Early | ton | 1,932 | 22% | 0.3 | 15 | \$1,821 | 30% | 0.3 |
| DLC | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Restaurant | Cooling Unitary | New | ton | 1,750 | 13% | 0.2 | 15 | \$714 | 30% | 0.4 |
| DLC | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Restaurant | Cooling Unitary | ROB | ton | 1,750 | 13% | 0.2 | 15 | \$714 | 30% | 0.4 |
| DLC | <65k BTU/hr 16 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Restaurant | Cooling Unitary | Early | ton | 1,932 | 26% | 0.4 | 15 | \$2,098 | 31% | 0.3 |
| DLC | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Restaurant | Cooling Unitary | New | ton | 1,750 | 19% | 0.3 | 15 | \$1,089 | 31% | 0.4 |
| DLC | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Restaurant | Cooling Unitary | ROB | ton | 1,750 | 19% | 0.3 | 15 | \$1,089 | 31% | 0.4 |
| DLC | >760k min 10.2 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Restaurant | Cooling Unitary | Early | ton | 48,891 | 3.7% | 1.4 | 15 | \$68,066 | 56% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|---|------------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Restaurant | Cooling Unitary | New | ton | 49,518 | 4.9% | 1.9 | 15 | \$6,231 | 56% | 0.5 |
| DLC | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Restaurant | Cooling Unitary | ROB | ton | 49,518 | 4.9% | 1.9 | 15 | \$6,231 | 56% | 0.5 |
| DLC | 135-240k min 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Restaurant | Cooling Unitary | Early | ton | 12,030 | 18% | 1.7 | 15 | \$18,135 | 79% | 0.2 |
| DLC | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Restaurant | Cooling Unitary | New | ton | 10,943 | 10.0% | 0.8 | 15 | \$1,948 | 79% | 0.8 |
| DLC | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Restaurant | Cooling Unitary | ROB | ton | 10,943 | 10.0% | 0.8 | 15 | \$1,948 | 79% | 0.8 |
| DLC | 240k-760k min 11 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Restaurant | Cooling Unitary | Early | ton | 32,165 | 9.0% | 2.3 | 15 | \$44,809 | 66% | 0.1 |
| DLC | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Restaurant | Cooling Unitary | New | ton | 32,245 | 9.3% | 2.3 | 15 | \$4,813 | 66% | 0.8 |
| DLC | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Restaurant | Cooling Unitary | ROB | ton | 32,245 | 9.3% | 2.3 | 15 | \$4,813 | 66% | 0.8 |
| DLC | 65k-135k BTU/hr 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Restaurant | Cooling Unitary | Early | ton | 7,091 | 17% | 0.9 | 15 | \$10,946 | 86% | 0.1 |
| DLC | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Restaurant | Cooling Unitary | New | ton | 6,320 | 6.7% | 0.3 | 15 | \$1,392 | 86% | 0.4 |
| DLC | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Restaurant | Cooling Unitary | ROB | ton | 6,320 | 6.7% | 0.3 | 15 | \$1,392 | 86% | 0.4 |
| DLC | Adding reflective roof treatment | Std color roof | Restaurant | Cooling Unitary | Existing | building | 25,651 | 7.0% | 0.07 | 6 | \$19,530 | 82% | 0.0 |
| DLC | Adding reflective roof treatment | Std color roof | Restaurant | Cooling Unitary | New | building | 25,651 | 7.1% | 0.07 | 6 | \$19,530 | 82% | 0.0 |
| DLC | Adding window shade film | No shade film | Restaurant | Cooling Unitary | Existing | building | 25,651 | 1.3% | 0.4 | 10 | \$312 | 12% | 1.3 |
| DLC | Adding window shade film | No shade film | Restaurant | Cooling Unitary | New | building | 25,651 | 1.3% | 0.4 | 10 | \$312 | 13% | 1.3 |
| DLC | Adding window shade screen | No shade screen | Restaurant | Cooling Unitary | Existing | building | 25,651 | 1.1% | 0.01 | 10 | \$121 | 12% | 1.0 |
| DLC | Adding window shade screen | No shade screen | Restaurant | Cooling Unitary | New | building | 25,651 | 1.1% | 0.01 | 10 | \$121 | 13% | 1.0 |
| DLC | Automated control system | Manual Controls | Restaurant | Cooling Unitary | Existing | building | 25,651 | 17% | 0.2 | 15 | \$28,081 | 51% | 0.1 |
| DLC | Automated control system | Manual Controls | Restaurant | Cooling Unitary | New | building | 25,651 | 17% | 0.2 | 15 | \$28,081 | 94% | 0.1 |
| DLC | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Restaurant | Cooling Unitary | Existing | building | 25,651 | 8.9% | 0.09 | 15 | \$26,661 | 71% | 0.1 |
| DLC | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Restaurant | Cooling Unitary | New | building | 25,651 | 3.0% | 0.03 | 15 | \$25,342 | 94% | 0.0 |
| DLC | Commercial energy recovery ventilation systems | No Commercial Recovery System | Restaurant | Cooling Unitary | Existing | building | 25,651 | 16% | 0.2 | 14 | \$23,179 | 71% | 0.1 |
| DLC | Duct Insulation, Add R8 | No Insulation | Restaurant | Cooling Unitary | Existing | building | 25,651 | 1.4% | 0.04 | 15 | \$204 | 20% | 1.3 |
| DLC | Duct Insulation, Add R8 | No Insulation | Restaurant | Cooling Unitary | New | building | 25,651 | 1.4% | 0.04 | 15 | \$204 | 10% | 1.3 |
| DLC | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Restaurant | Cooling Unitary | Existing | building | 14,108 | 13% | 0.1 | 1 | \$135 | 73% | 0.6 |
| DLC | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Restaurant | Cooling Unitary | New | building | 14,108 | 13% | 0.1 | 1 | \$135 | 73% | 0.6 |
| DLC | ECM Motors for split systems | Std Shaded Pole Motor | Restaurant | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 3.2 |
| DLC | ECM Motors for split systems | Std Shaded Pole Motor | Restaurant | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 3.2 |
| DLC | Facility Commissioning | No Facility Commissioning | Restaurant | Cooling Unitary | New | building | 25,651 | 16% | 0.2 | 10 | \$416 | 89% | 4.2 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Restaurant | Cooling Unitary | Existing | building | 25,651 | 7.1% | 0.07 | 15 | \$113,781 | 25% | 0.0 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Restaurant | Cooling Unitary | New | building | 25,651 | 7.0% | 0.07 | 15 | \$113,781 | 35% | 0.0 |
| DLC | Hi Eff HVAC System Design | No HVAC Design | Restaurant | Cooling Unitary | New | building | 25,651 | 12% | 0.1 | 10 | \$1,490 | 51% | 0.9 |
| DLC | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Restaurant | Cooling Unitary | Existing | building | 25,651 | 5.0% | 0.05 | 5 | \$225 | 59% | 1.1 |
| DLC | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Restaurant | Cooling Unitary | Existing | building | 25,651 | 0.5% | 0.05 | 5 | \$225 | 51% | 0.2 |
| DLC | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Restaurant | Cooling Unitary | New | building | 25,651 | 0.5% | 0.05 | 5 | \$135 | 51% | 0.3 |
| DLC | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Restaurant | Cooling Unitary | Existing | building | 25,651 | 3.5% | 0.04 | 10 | \$2,701 | 86% | 0.1 |
| DLC | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Restaurant | Cooling Unitary | New | building | 25,651 | 3.5% | 0.04 | 10 | \$2,701 | 86% | 0.1 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) | Restaurant | Cooling Unitary | Existing | building | 25,651 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.9 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Restaurant | Cooling Unitary | New | building | 25,651 | 1.7% | 0.02 | 11 | \$146 | 49% | 1.4 |
| DLC | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Restaurant | Cooling Unitary | Early | unit | 760 | 19% | 0.08 | 15 | \$849 | 85% | 0.2 |
| DLC | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Restaurant | Cooling Unitary | New | unit | 768 | 20% | 0.09 | 15 | \$356 | 85% | 0.5 |
| DLC | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Restaurant | Cooling Unitary | ROB | unit | 768 | 20% | 0.09 | 15 | \$356 | 85% | 0.5 |
| DLC | Re-Commissioning (Existing Construction) | No Re-Commissioning | Restaurant | Cooling Unitary | Existing | building | 25,651 | 16% | 0.2 | 5 | \$12,732 | 86% | 0.1 |
| DLC | Room AC (w/ louvered sides) | Exisiting efficiency Room AC in Pennsylvania (2000 Federal Standards) | Restaurant | Cooling Unitary | Early | ton | 794 | 13% | 0.04 | 9 | \$348 | 82% | 0.2 |
| DLC | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Restaurant | Cooling Unitary | New | ton | 720 | 4.5% | 0.01 | 9 | \$17 | 82% | 1.1 |
| DLC | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Restaurant | Cooling Unitary | ROB | ton | 720 | 4.5% | 0.01 | 9 | \$17 | 82% | 1.1 |
| DLC | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Restaurant | Cooling Unitary | Existing | building | 25,651 | 12% | 0.1 | 15 | \$6,404 | 26% | 0.3 |
| DLC | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Restaurant | Cooling Unitary | New | building | 25,651 | 0.5% | 0.01 | 15 | \$4,912 | 94% | 0.0 |
| DLC | 80W Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Restaurant | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 0% | 0.2 |
| DLC | 80W Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Restaurant | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| DLC | 80W Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Restaurant | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| DLC | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Restaurant | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 1.2 |
| DLC | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Restaurant | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.7 |
| DLC | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Restaurant | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.7 |
| DLC | LED exterior lighting | 250 Watt Incandescent | Restaurant | Ext. Lighting | ROB | measure | 515 | 83% | 0.1 | 15 | \$104 | 89% | 3.4 |
| DLC | LED exterior lighting | 250 Watt Incandescent | Restaurant | Ext. Lighting | ROB | measure | 515 | 83% | 0.1 | 15 | \$104 | 89% | 3.4 |
| DLC | LED exterior lighting | 250 Watt Incandescent | Restaurant | Ext. Lighting | ROB | measure | 515 | 83% | 0.1 | 15 | \$104 | 89% | 3.4 |
| DLC | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Restaurant | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 75% | 0.3 |
| DLC | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Restaurant | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 75% | 0.2 |
| DLC | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Restaurant | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 3.1 |
| DLC | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Restaurant | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.3 |
| DLC | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Restaurant | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 3.1 |
| DLC | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Restaurant | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.3 |
| DLC | Photocell Controls (Outdoor) | Lighting w/ No Controls | Restaurant | Ext. Lighting | Existing | building | 82 | 28% | 0.3 | 8 | \$891 | 88% | 0.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|---|------------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Photocell Controls (Outdoor) | Lighting w/ No Controls | Restaurant | Ext. Lighting | New | building | 82 | 28% | 0.3 | 8 | \$891 | 0% | 0.2 |
| DLC | Adding reflective roof treatment | Std color roof | Restaurant | Heat Pump | Existing | building | 1,977 | 6.9% | 0.07 | 6 | \$19,530 | 82% | 0.0 |
| DLC | Adding reflective roof treatment | Std color roof | Restaurant | Heat Pump | New | building | 1,977 | 6.9% | 0.07 | 6 | \$19,530 | 82% | 0.0 |
| DLC | Adding window shade film | No shade film | Restaurant | Heat Pump | Existing | building | 1,977 | 3.9% | 0.4 | 10 | \$24 | 12% | 12.1 |
| DLC | Adding window shade film | No shade film | Restaurant | Heat Pump | New | building | 1,977 | 3.9% | 0.4 | 10 | \$24 | 12% | 12.1 |
| DLC | Adding window shade screen | No shade screen | Restaurant | Heat Pump | Existing | building | 1,977 | 0.3% | 0.01 | 10 | \$3.1 | 12% | 3.1 |
| DLC | Adding window shade screen | No shade screen | Restaurant | Heat Pump | New | building | 1,977 | 0.3% | 0.01 | 10 | \$3.1 | 12% | 3.1 |
| DLC | Automated control system | Manual Controls | Restaurant | Heat Pump | Existing | building | 1,977 | 17% | 0.2 | 15 | \$2,164 | 51% | 0.2 |
| DLC | Automated control system | Manual Controls | Restaurant | Heat Pump | New | building | 1,977 | 17% | 0.2 | 15 | \$2,164 | 94% | 0.2 |
| DLC | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Restaurant | Heat Pump | Existing | building | 1,977 | 8.9% | 0.09 | 15 | \$26,661 | 71% | 0.0 |
| DLC | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Restaurant | Heat Pump | New | building | 1,977 | 3.0% | 0.03 | 15 | \$25,342 | 94% | 0.0 |
| DLC | Commercial energy recovery ventilation systems | No Commercial Recovery System | Restaurant | Heat Pump | Existing | building | 1,977 | 16% | 0.2 | 14 | \$1,049,068 | 71% | 0.0 |
| DLC | Duct Insulation, Add R8 | No Insulation | Restaurant | Heat Pump | Existing | building | 1,977 | 4.0% | 0.04 | 15 | \$16 | 12% | 5.5 |
| DLC | Duct Insulation, Add R8 | No Insulation | Restaurant | Heat Pump | New | building | 1,977 | 4.0% | 0.04 | 15 | \$16 | 6% | 5.5 |
| DLC | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Restaurant | Heat Pump | Early | heat pump | 2,095 | 11% | 0.02 | 15 | \$4,070 | 83% | 0.0 |
| DLC | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Restaurant | Heat Pump | New | heat pump | 2,020 | 8.0% | 0.01 | 15 | \$1,097 | 83% | 0.1 |
| DLC | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Restaurant | Heat Pump | ROB | heat pump | 2,020 | 8.0% | 0.01 | 15 | \$1,097 | 83% | 0.1 |
| DLC | Facility Commissioning | No Facility Commissioning | Restaurant | Heat Pump | New | building | 1,977 | 16% | 0.2 | 10 | \$7,882 | 89% | 0.0 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Restaurant | Heat Pump | Existing | building | 1,977 | 7.0% | 0.07 | 15 | \$8,770 | 25% | 0.0 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Restaurant | Heat Pump | New | building | 1,977 | 7.0% | 0.07 | 15 | \$8,770 | 35% | 0.0 |
| DLC | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Restaurant | Heat Pump | Early | heat pump | 21,173 | 14% | 0.2 | 15 | \$91,117 | 19% | 0.0 |
| DLC | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Restaurant | Heat Pump | New | heat pump | 20,599 | 11% | 0.2 | 15 | \$33,927 | 19% | 0.0 |
| DLC | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Restaurant | Heat Pump | ROB | heat pump | 20,599 | 11% | 0.2 | 15 | \$33,927 | 19% | 0.0 |
| DLC | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Restaurant | Heat Pump | Early | heat pump | 21,173 | 14% | 0.2 | 15 | \$58,356 | 19% | 0.0 |
| DLC | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Restaurant | Heat Pump | New | heat pump | 20,599 | 11% | 0.2 | 15 | \$1,167 | 19% | 1.4 |
| DLC | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Restaurant | Heat Pump | ROB | heat pump | 20,599 | 11% | 0.2 | 15 | \$1,167 | 19% | 1.4 |
| DLC | Hi Eff HVAC System Design | No HVAC Design | Restaurant | Heat Pump | New | building | 1,977 | 12% | 0.1 | 10 | \$111,391 | 51% | 0.0 |
| DLC | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Restaurant | Heat Pump | Early | heat pump | 5,586 | 15% | 0.07 | 12 | \$4,298 | 81% | 0.1 |
| DLC | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Restaurant | Heat Pump | New | heat pump | 5,387 | 12% | 0.06 | 12 | \$852 | 81% | 0.4 |
| DLC | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Restaurant | Heat Pump | ROB | heat pump | 5,387 | 12% | 0.06 | 12 | \$852 | 81% | 0.4 |
| DLC | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Restaurant | Heat Pump | Existing | building | 1,977 | 5.0% | 0.01 | 5 | \$90 | 51% | 0.2 |
| DLC | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Restaurant | Heat Pump | New | building | 1,977 | 5.0% | 0.01 | 5 | \$90 | 51% | 0.2 |
| DLC | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Restaurant | Heat Pump | Existing | building | 1,977 | 3.5% | 0.04 | 10 | \$2,405 | 81% | 0.0 |
| DLC | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Restaurant | Heat Pump | New | building | 1,977 | 3.5% | 0.04 | 10 | \$2,405 | 81% | 0.0 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Restaurant | Heat Pump | Existing | building | 1,977 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.1 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Restaurant | Heat Pump | New | building | 1,977 | 2.1% | 0.02 | 11 | \$146 | 49% | 0.2 |
| DLC | Re-Commissioning (Existing Construction) | No Re-Commissioning | Restaurant | Heat Pump | Existing | building | 1,977 | 16% | 0.2 | 5 | \$12,732 | 86% | 0.0 |
| DLC | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Restaurant | Heat Pump | New | measure | 2,695,700 | 2.0% | 6.2 | 13 | \$339,358 | 43% | 0.1 |
| DLC | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Restaurant | Heat Pump | ROB | measure | 2,695,700 | 2.0% | 6.2 | 13 | \$339,358 | 43% | 0.1 |
| DLC | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Restaurant | Heat Pump | Existing | building | 1,977 | 12% | 0.1 | 15 | \$6,404 | 26% | 0.0 |
| DLC | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Restaurant | Heat Pump | New | building | 1,977 | 0.5% | 0.01 | 15 | \$4,912 | 94% | 0.0 |
| DLC | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Restaurant | Heat Pump | Early | heat pump | 9,170 | 38% | 0.3 | 15 | \$35,347 | 28% | 0.1 |
| DLC | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Restaurant | Heat Pump | New | heat pump | 8,844 | 36% | 0.3 | 15 | \$15,739 | 28% | 0.1 |
| DLC | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Restaurant | Heat Pump | ROB | heat pump | 8,844 | 36% | 0.3 | 15 | \$15,739 | 28% | 0.1 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | Early | Fixture | 1,000 | 9.6% | 0.02 | 13 | \$850 | 39% | 0.1 |
| DLC | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Restaurant | High Bay Lighting | Early | Fixture | 999 | 9.5% | 0.02 | 13 | \$850 | 28% | 0.1 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Restaurant | High Bay Lighting | Early | Fixture | 1,542 | 41% | 0.1 | 13 | \$850 | 36% | 0.5 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | New | Fixture | 760 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Restaurant | High Bay Lighting | New | Fixture | 707 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Restaurant | High Bay Lighting | New | Fixture | 1,172 | 41% | 0.09 | 13 | \$397 | 36% | 0.9 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 1,000 | 9.6% | 0.02 | 13 | \$372 | 39% | 0.2 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 930 | 2.9% | 0.01 | 13 | \$338 | 28% | 0.1 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 1,542 | 41% | 0.1 | 13 | \$397 | 36% | 1.1 |
| DLC | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | Early | Fixture | 1,941 | 19% | 0.07 | 13 | \$851 | 38% | 0.3 |
| DLC | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Restaurant | High Bay Lighting | Early | Fixture | 1,965 | 20% | 0.08 | 13 | \$851 | 38% | 0.3 |
| DLC | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | Early | Fixture | 5,715 | 73% | 0.8 | 13 | \$851 | 38% | 3.4 |
| DLC | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | New | Fixture | 1,475 | 19% | 0.05 | 13 | \$372 | 38% | 0.5 |
| DLC | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | New | Fixture | 4,344 | 73% | 0.6 | 13 | \$383 | 38% | 5.7 |
| DLC | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 1,941 | 19% | 0.07 | 13 | \$372 | 38% | 0.7 |
| DLC | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 5,715 | 73% | 0.8 | 13 | \$383 | 38% | 7.5 |
| DLC | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | Early | Fixture | 1,941 | 25% | 0.09 | 13 | \$554 | 29% | 0.6 |
| DLC | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Restaurant | High Bay Lighting | Early | Fixture | 1,905 | 23% | 0.09 | 13 | \$554 | 28% | 0.6 |
| DLC | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | Early | Fixture | 5,715 | 74% | 0.8 | 13 | \$554 | 36% | 5.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|---|------------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | New | Fixture | 1,475 | 25% | 0.07 | 13 | \$75 | 29% | 3.4 |
| DLC | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | New | Fixture | 4,344 | 74% | 0.6 | 13 | \$86 | 36% | 26.3 |
| DLC | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 1,941 | 25% | 0.09 | 13 | \$75 | 29% | 4.5 |
| DLC | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 5,715 | 74% | 0.8 | 13 | \$86 | 36% | 34.5 |
| DLC | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Restaurant | High Bay Lighting | Early | Fixture | 506 | 0.2% | 0.00 | 13 | \$835 | 38% | 0.0 |
| DLC | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Restaurant | High Bay Lighting | Early | Fixture | 1,090 | 54% | 0.1 | 13 | \$835 | 38% | 0.5 |
| DLC | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Restaurant | High Bay Lighting | New | Fixture | 828 | 54% | 0.09 | 13 | \$382 | 38% | 0.8 |
| DLC | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 1,090 | 54% | 0.1 | 13 | \$382 | 38% | 1.1 |
| DLC | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | Early | Fixture | 2,472 | 18% | 0.09 | 13 | \$487 | 25% | 0.6 |
| DLC | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Restaurant | High Bay Lighting | Early | Fixture | 2,585 | 22% | 0.1 | 13 | \$487 | 28% | 0.8 |
| DLC | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | Early | Fixture | 5,715 | 65% | 0.7 | 13 | \$487 | 36% | 5.3 |
| DLC | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | New | Fixture | 1,879 | 18% | 0.07 | 13 | \$16 | 25% | 14.7 |
| DLC | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | New | Fixture | 4,344 | 65% | 0.5 | 13 | \$18 | 36% | 106.3 |
| DLC | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 2,472 | 18% | 0.09 | 13 | \$16 | 25% | 19.3 |
| DLC | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 5,715 | 65% | 0.7 | 13 | \$18 | 36% | 139.9 |
| DLC | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | Early | Fixture | 2,472 | 1.5% | 0.01 | 13 | \$557 | 19% | 0.0 |
| DLC | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Restaurant | High Bay Lighting | Early | Fixture | 2,545 | 4.3% | 0.02 | 13 | \$557 | 19% | 0.1 |
| DLC | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | Early | Fixture | 5,715 | 57% | 0.6 | 13 | \$557 | 19% | 4.1 |
| DLC | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | New | Fixture | 1,879 | 1.5% | 0.01 | 13 | \$86 | 19% | 0.2 |
| DLC | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | New | Fixture | 4,344 | 57% | 0.5 | 13 | \$88 | 19% | 19.7 |
| DLC | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 2,472 | 1.5% | 0.01 | 13 | \$86 | 19% | 0.3 |
| DLC | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 5,715 | 57% | 0.6 | 13 | \$88 | 19% | 25.9 |
| DLC | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Restaurant | High Bay Lighting | Early | Fixture | 1,050 | 29% | 0.04 | 13 | \$492 | 71% | 0.4 |
| DLC | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | Early | Fixture | 878 | 15% | 0.02 | 13 | \$492 | 95% | 0.2 |
| DLC | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Restaurant | High Bay Lighting | Early | Fixture | 1,304 | 43% | 0.08 | 13 | \$492 | 95% | 0.7 |
| DLC | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Restaurant | High Bay Lighting | Early | Fixture | 1,209 | 38% | 0.06 | 13 | \$492 | 95% | 0.6 |
| DLC | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | New | Fixture | 667 | 15% | 0.01 | 13 | \$25 | 95% | 2.6 |
| DLC | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Restaurant | High Bay Lighting | New | Fixture | 991 | 43% | 0.06 | 13 | \$51 | 95% | 5.3 |
| DLC | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 878 | 15% | 0.02 | 13 | \$25 | 95% | 3.4 |
| DLC | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 1,304 | 43% | 0.08 | 13 | \$51 | 95% | 7.0 |
| DLC | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Restaurant | High Bay Lighting | Early | lamp | 120 | 16% | 0.00 | 9 | \$7.7 | 99% | 1.2 |
| DLC | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Restaurant | High Bay Lighting | New | lamp | 72 | 13% | 0.00 | 9 | \$1.6 | 91% | 2.6 |
| DLC | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Restaurant | High Bay Lighting | ROB | lamp | 116 | 13% | 0.00 | 9 | \$1.6 | 91% | 4.1 |
| DLC | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | Early | Fixture | 5,848 | 23% | 0.3 | 13 | \$613 | 5% | 1.5 |
| DLC | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Restaurant | High Bay Lighting | Early | Fixture | 4,595 | 1.6% | 0.01 | 13 | \$613 | 28% | 0.1 |
| DLC | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | Early | Fixture | 11,431 | 60% | 1.3 | 13 | \$613 | 18% | 7.8 |
| DLC | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | New | Fixture | 4,445 | 23% | 0.2 | 13 | \$96 | 5% | 7.3 |
| DLC | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 5,848 | 23% | 0.3 | 13 | \$96 | 5% | 9.6 |
| DLC | 85W Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | Early | Fixture | 5,848 | 92% | 1.0 | 13 | \$1,916 | 95% | 2.0 |
| DLC | 85W Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | Early | Fixture | 11,431 | 96% | 2.1 | 13 | \$1,916 | 95% | 4.0 |
| DLC | 85W Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | New | Fixture | 4,445 | 92% | 0.8 | 13 | \$1,468 | 95% | 1.9 |
| DLC | 85W Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | New | Fixture | 8,687 | 96% | 1.6 | 13 | \$1,149 | 95% | 5.1 |
| DLC | 85W Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 5,848 | 92% | 1.0 | 13 | \$1,468 | 95% | 2.6 |
| DLC | 85W Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 11,431 | 96% | 2.1 | 13 | \$1,149 | 95% | 6.7 |
| DLC | Auto Off Time Switch | Lighting w/ No Controls | Restaurant | High Bay Lighting | Existing | building | 115 | 24% | 0.2 | 8 | \$181 | 13% | 0.8 |
| DLC | Auto Off Time Switch | Lighting w/ No Controls | Restaurant | High Bay Lighting | New | building | 115 | 6.9% | 0.07 | 8 | \$181 | 0% | 0.2 |
| DLC | Central Lighting Control System | Lighting w/ No Controls | Restaurant | High Bay Lighting | Existing | building | 115 | 38% | 0.4 | 8 | \$181 | 13% | 1.3 |
| DLC | Central Lighting Control System | Lighting w/ No Controls | Restaurant | High Bay Lighting | New | building | 115 | 14% | 0.1 | 8 | \$181 | 13% | 0.5 |
| DLC | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Restaurant | High Bay Lighting | New | building | 115 | 10% | 0.1 | 15 | \$46,260 | 32% | 0.0 |
| DLC | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Restaurant | High Bay Lighting | New | building | 115 | 15% | 0.2 | 15 | \$115,651 | 32% | 0.0 |
| DLC | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Restaurant | High Bay Lighting | New | building | 115 | 30% | 0.3 | 15 | \$165,766 | 32% | 0.0 |
| DLC | Indoor Daylight Sensors | Lighting w/ No Controls | Restaurant | High Bay Lighting | Existing | building | 115 | 28% | 0.3 | 8 | \$891 | 13% | 0.2 |
| DLC | Indoor Daylight Sensors | Lighting w/ No Controls | Restaurant | High Bay Lighting | New | building | 115 | 4.0% | 0.04 | 8 | \$891 | 0% | 0.0 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 365 W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | Early | Fixture | 1,941 | 67% | 0.3 | 13 | \$960 | 95% | 0.9 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 1075 W Mercury Vapor Fixture | Restaurant | High Bay Lighting | Early | Fixture | 5,715 | 89% | 1.0 | 13 | \$960 | 95% | 3.7 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 295 W Metal Halide Fixture | Restaurant | High Bay Lighting | Early | Fixture | 1,568 | 59% | 0.2 | 13 | \$960 | 95% | 0.7 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 365 W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | New | Fixture | 1,475 | 67% | 0.2 | 13 | \$480 | 95% | 1.4 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 1075 W Mercury Vapor Fixture | Restaurant | High Bay Lighting | New | Fixture | 4,344 | 89% | 0.7 | 13 | \$491 | 95% | 5.5 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 295 W Metal Halide Fixture | Restaurant | High Bay Lighting | New | Fixture | 1,192 | 59% | 0.1 | 13 | \$406 | 95% | 1.2 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 365 W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 1,941 | 67% | 0.3 | 13 | \$480 | 95% | 1.9 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 1075 W Mercury Vapor Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 5,715 | 89% | 1.0 | 13 | \$491 | 95% | 7.2 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 295 W Metal Halide Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 1,568 | 59% | 0.2 | 13 | \$406 | 95% | 1.6 |
| DLC | Occupancy Sensor | Lighting w/ No Controls | Restaurant | High Bay Lighting | Existing | building | 115 | 24% | 0.2 | 8 | \$273 | 12% | 0.5 |
| DLC | Occupancy Sensor | Lighting w/ No Controls | Restaurant | High Bay Lighting | New | building | 115 | 6.9% | 0.07 | 8 | \$273 | 0% | 0.2 |
| DLC | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Restaurant | High Bay Lighting | Existing | building | 115 | 28% | 0.3 | 8 | \$891 | 12% | 0.2 |
| DLC | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Restaurant | High Bay Lighting | New | building | 115 | 4.0% | 0.04 | 8 | \$891 | 0% | 0.0 |
| DLC | Time Clock Control | Lighting w/ No Controls | Restaurant | High Bay Lighting | Existing | building | 115 | 28% | 0.3 | 8 | \$181 | 13% | 1.0 |
| DLC | Time Clock Control | Lighting w/ No Controls | Restaurant | High Bay Lighting | New | building | 115 | 4.1% | 0.04 | 8 | \$181 | 0% | 0.1 |
| DLC | Auto Off Time Switch | Lighting w/ No Controls | Restaurant | Lin. Fluor. Lighting | Existing | building | 6,448 | 24% | 0.2 | 8 | \$181 | 13% | 3.3 |
| DLC | Auto Off Time Switch | Lighting w/ No Controls | Restaurant | Lin. Fluor. Lighting | New | building | 6,448 | 7.0% | 0.07 | 8 | \$181 | 0% | 1.0 |
| DLC | Central Lighting Control System | Lighting w/ No Controls | Restaurant | Lin. Fluor. Lighting | Existing | building | 6,448 | 38% | 0.4 | 8 | \$181 | 12% | 5.2 |
| DLC | Central Lighting Control System | Lighting w/ No Controls | Restaurant | Lin. Fluor. Lighting | New | building | 6,448 | 14% | 0.1 | 8 | \$181 | 12% | 1.9 |
| DLC | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Restaurant | Lin. Fluor. Lighting | New | building | 6,448 | 10% | 0.1 | 15 | \$46,260 | 32% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|--|------------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Restaurant | Lin. Fluor. Lighting | New | building | 6,448 | 15% | 0.2 | 15 | \$115,651 | 32% | 0.0 |
| DLC | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Restaurant | Lin. Fluor. Lighting | New | building | 6,448 | 30% | 0.3 | 15 | \$165,766 | 32% | 0.0 |
| DLC | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Restaurant | Lin. Fluor. Lighting | Early | Lamp | 242 | 38% | 0.01 | 9 | \$7.3 | 94% | 5.6 |
| DLC | Indoor Daylight Sensors | Lighting w/ No Controls | Restaurant | Lin. Fluor. Lighting | Existing | building | 6,448 | 28% | 0.3 | 8 | \$891 | 13% | 0.8 |
| DLC | Indoor Daylight Sensors | Lighting w/ No Controls | Restaurant | Lin. Fluor. Lighting | New | building | 6,448 | 4.1% | 0.04 | 8 | \$891 | 0% | 0.1 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 28W T8 Lamp, Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | Early | Lamp | 109 | 19% | 0.00 | 11 | \$35 | 94% | 0.4 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 40W T12 Lamp, Magnetic Ballast | Restaurant | Lin. Fluor. Lighting | Early | Lamp | 240 | 63% | 0.03 | 11 | \$35 | 94% | 2.6 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 28W T5 Lamp, Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | Early | Lamp | 135 | 34% | 0.01 | 11 | \$35 | 94% | 0.8 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 32W T8 Lamp, Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | Early | Lamp | 131 | 32% | 0.01 | 11 | \$35 | 94% | 0.7 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 28W T8 Lamp, Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | New | Lamp | 83 | 19% | 0.00 | 11 | \$28 | 94% | 0.3 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 32W T8 Lamp, Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | New | Lamp | 99 | 32% | 0.01 | 11 | \$29 | 94% | 0.7 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 28W T5 Lamp, Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | New | Lamp | 102 | 34% | 0.01 | 11 | \$22 | 94% | 1.0 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 32W T8 Lamp, Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | New | Lamp | 99 | 32% | 0.01 | 11 | \$29 | 94% | 0.7 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 28W T8 Lamp, Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | ROB | Lamp | 109 | 19% | 0.00 | 11 | \$28 | 94% | 0.5 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 32W T8 Lamp, Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | ROB | Lamp | 131 | 32% | 0.01 | 11 | \$29 | 94% | 0.9 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 28W T5 Lamp, Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | ROB | Lamp | 135 | 34% | 0.01 | 11 | \$22 | 94% | 1.3 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 32W T8 Lamp, Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | ROB | Lamp | 131 | 32% | 0.01 | 11 | \$29 | 94% | 0.9 |
| DLC | Occupancy Sensor | Lighting w/ No Controls | Restaurant | Lin. Fluor. Lighting | Existing | building | 6,448 | 24% | 0.2 | 8 | \$273 | 13% | 2.2 |
| DLC | Occupancy Sensor | Lighting w/ No Controls | Restaurant | Lin. Fluor. Lighting | New | building | 6,448 | 7.0% | 0.07 | 8 | \$273 | 0% | 0.6 |
| DLC | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Restaurant | Lin. Fluor. Lighting | Existing | building | 6,448 | 28% | 0.3 | 8 | \$891 | 12% | 0.8 |
| DLC | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Restaurant | Lin. Fluor. Lighting | New | building | 6,448 | 4.1% | 0.04 | 8 | \$891 | 0% | 0.1 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 40W T12 w/ Magnetic Ballast | Restaurant | Lin. Fluor. Lighting | Early | Lamp | 242 | 54% | 0.02 | 9 | \$9.1 | 94% | 6.4 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | Early | Lamp | 155 | 28% | 0.01 | 9 | \$9.1 | 24% | 2.1 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | Early | Lamp | 150 | 26% | 0.01 | 9 | \$9.1 | 94% | 1.9 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | New | Lamp | 114 | 26% | 0.00 | 9 | \$2.5 | 94% | 5.2 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | New | Lamp | 114 | 26% | 0.00 | 9 | \$2.5 | 94% | 5.2 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | New | Lamp | 118 | 28% | 0.00 | 9 | \$2.5 | 24% | 5.8 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | New | Lamp | 114 | 26% | 0.00 | 9 | \$2.5 | 94% | 5.2 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | ROB | Lamp | 150 | 26% | 0.01 | 9 | \$2.5 | 94% | 6.8 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | ROB | Lamp | 150 | 26% | 0.01 | 9 | \$2.5 | 94% | 6.8 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | ROB | Lamp | 155 | 28% | 0.01 | 9 | \$2.5 | 24% | 7.7 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | ROB | Lamp | 150 | 26% | 0.01 | 9 | \$2.5 | 94% | 6.8 |
| DLC | T8 Lamp (any length) Electronic Ballast | Standard T12 lamp (any length) | Restaurant | Lin. Fluor. Lighting | Early | Lamp | 285 | 42% | 0.02 | 9 | \$14 | 94% | 3.8 |
| DLC | Time Clock Control | Lighting w/ No Controls | Restaurant | Lin. Fluor. Lighting | Existing | building | 6,448 | 28% | 0.3 | 8 | \$181 | 14% | 3.9 |
| DLC | Time Clock Control | Lighting w/ No Controls | Restaurant | Lin. Fluor. Lighting | New | building | 6,448 | 4.1% | 0.04 | 8 | \$181 | 0% | 0.6 |
| DLC | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | Early | motor | 4,220 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.3 |
| DLC | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | Early | motor | 4,220 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.3 |
| DLC | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | Early | motor | 4,220 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.3 |
| DLC | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | Early | motor | 4,220 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.3 |
| DLC | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | New | motor | 4,091 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| DLC | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | New | motor | 4,091 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| DLC | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | New | motor | 4,091 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| DLC | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | New | motor | 4,091 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| DLC | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | ROB | motor | 4,091 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| DLC | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | ROB | motor | 4,091 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| DLC | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | ROB | motor | 4,091 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| DLC | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | Early | motor | 6,222 | 3.0% | 0.02 | 15 | \$402 | 76% | 0.3 |
| DLC | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | Early | motor | 6,222 | 3.0% | 0.02 | 15 | \$402 | 76% | 0.3 |
| DLC | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | Early | motor | 6,222 | 3.0% | 0.02 | 15 | \$402 | 76% | 0.3 |
| DLC | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | Early | motor | 6,222 | 3.0% | 0.03 | 15 | \$402 | 76% | 0.4 |
| DLC | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | Early | motor | 6,222 | 3.0% | 0.02 | 15 | \$402 | 76% | 0.3 |
| DLC | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | New | motor | 6,065 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.4 |
| DLC | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | New | motor | 6,065 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.4 |
| DLC | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | New | motor | 6,065 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.4 |
| DLC | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | New | motor | 6,065 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.4 |
| DLC | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | ROB | motor | 6,065 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.4 |
| DLC | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | ROB | motor | 6,065 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.4 |
| DLC | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | ROB | motor | 6,065 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.4 |
| DLC | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | ROB | motor | 6,065 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.4 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|---|------------|---------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | New | motor | 276,135 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.8 |
| DLC | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | New | motor | 276,135 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.8 |
| DLC | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | New | motor | 276,135 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.8 |
| DLC | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | New | motor | 276,135 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.8 |
| DLC | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | ROB | motor | 276,135 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.8 |
| DLC | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | ROB | motor | 276,135 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.8 |
| DLC | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | ROB | motor | 276,135 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.8 |
| DLC | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | ROB | motor | 276,135 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.8 |
| DLC | ASD HVAC Fan | Std. HVAC Fan | Restaurant | Motors | New | measure | 1,593 | 6.0% | 0.01 | 15 | \$6,520 | 85% | 0.0 |
| DLC | ASD HVAC Fan | Std. HVAC Fan | Restaurant | Motors | ROB | measure | 1,593 | 6.0% | 0.01 | 15 | \$6,520 | 85% | 0.0 |
| DLC | demand controlled ventilation | Absence of Demand Controlled Ventilation | Restaurant | Motors | Early | measure | 1,593 | 14% | 0.03 | 10 | \$15,205 | 92% | 0.0 |
| DLC | demand controlled ventilation | Office building thermostat | Restaurant | Motors | New | measure | 1,593 | 14% | 0.03 | 10 | \$11,863 | 92% | 0.0 |
| DLC | demand controlled ventilation | Office building thermostat | Restaurant | Motors | ROB | measure | 1,593 | 14% | 0.03 | 10 | \$11,863 | 92% | 0.0 |
| DLC | Downsizing motor during retrofit | Larger hp standard motor | Restaurant | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 24.9 |
| DLC | Downsizing motor during retrofit | Larger hp standard motor | Restaurant | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 25.2 |
| DLC | Downsizing motor during retrofit | Larger hp standard motor | Restaurant | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 26.0 |
| DLC | Downsizing motor during retrofit | Larger hp standard motor | Restaurant | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 26.6 |
| DLC | Downsizing motor during retrofit | Larger hp standard motor | Restaurant | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 26.9 |
| DLC | Downsizing motor during retrofit | Larger hp standard motor | Restaurant | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 25.1 |
| DLC | Downsizing motor during retrofit | Larger hp standard motor | Restaurant | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 25.1 |
| DLC | Downsizing motor during retrofit | Larger hp standard motor | Restaurant | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 25.9 |
| DLC | Downsizing motor during retrofit | Larger hp standard motor | Restaurant | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 26.5 |
| DLC | Downsizing motor during retrofit | Larger hp standard motor | Restaurant | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 27.0 |
| DLC | Escalator Motor Controller | Constant power control | Restaurant | Motors | New | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 22% | 6.9 |
| DLC | Escalator Motor Controller | Constant power control | Restaurant | Motors | ROB | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 22% | 6.9 |
| DLC | Fan Motor - correct sizing | Incorrect Fan Motor Sizing | Restaurant | Motors | ROB | measure | 1,593 | 1.6% | 0.00 | 15 | \$50 | 92% | 0.4 |
| DLC | Variable Speed Drive Control, 15HP | Existing Motors w/out VSD Drive | Restaurant | Motors | Early | motor | 57,655 | 70% | 5.9 | 15 | \$731 | 86% | 41.1 |
| DLC | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Restaurant | Motors | New | motor | 56,415 | 72% | 5.9 | 15 | \$731 | 86% | 41.1 |
| DLC | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Restaurant | Motors | ROB | motor | 56,415 | 72% | 5.9 | 15 | \$731 | 86% | 41.1 |
| DLC | Variable Speed Drive Control, 40HP | Existing Motors w/out VSD Drive | Restaurant | Motors | Early | motor | 150,439 | 71% | 15.7 | 15 | \$4,666 | 86% | 17.0 |
| DLC | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Restaurant | Motors | New | motor | 148,681 | 71% | 15.6 | 15 | \$4,666 | 86% | 17.0 |
| DLC | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Restaurant | Motors | ROB | motor | 148,681 | 72% | 15.6 | 15 | \$4,666 | 86% | 17.0 |
| DLC | Variable Speed Drive Control, 5HP | Existing Motors w/out VFD Drive | Restaurant | Motors | Early | motor | 19,987 | 72% | 2.1 | 15 | \$2,243 | 86% | 4.7 |
| DLC | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Restaurant | Motors | New | motor | 19,540 | 72% | 2.1 | 15 | \$2,243 | 86% | 4.6 |
| DLC | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Restaurant | Motors | ROB | motor | 19,540 | 71% | 2.1 | 15 | \$2,243 | 86% | 4.6 |
| DLC | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Restaurant | Motors | Early | motor | 1,863 | 60% | 0.1 | 15 | \$268 | 86% | 3.0 |
| DLC | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Restaurant | Motors | New | motor | 1,863 | 60% | 0.1 | 15 | \$268 | 86% | 3.0 |
| DLC | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Restaurant | Motors | ROB | motor | 1,863 | 60% | 0.1 | 15 | \$268 | 86% | 3.0 |
| DLC | VFD on Chilled Water Pump | Motor w/out VFD Drive | Restaurant | Motors | Early | motor | 16,590 | 55% | 2.7 | 15 | \$2,903 | 86% | 2.8 |
| DLC | VFD on Chilled Water Pump | Motor w/out VFD Drive | Restaurant | Motors | New | motor | 16,280 | 55% | 2.7 | 15 | \$2,843 | 86% | 2.8 |
| DLC | VFD on Chilled Water Pump | Motor w/out VFD Drive | Restaurant | Motors | ROB | motor | 16,280 | 55% | 2.7 | 15 | \$2,843 | 86% | 2.8 |
| DLC | VFD on Condenser Water Pump | Motor w/out VFD Drive | Restaurant | Motors | Early | motor | 18,641 | 32% | 3.2 | 15 | \$2,903 | 86% | 2.3 |
| DLC | VFD on Condenser Water Pump | Motor w/out VFD Drive | Restaurant | Motors | New | motor | 18,292 | 33% | 3.1 | 15 | \$2,843 | 86% | 2.3 |
| DLC | VFD on Condenser Water Pump | Motor w/out VFD Drive | Restaurant | Motors | ROB | motor | 18,292 | 33% | 3.1 | 15 | \$2,843 | 86% | 2.3 |
| DLC | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Restaurant | Motors | Early | motor | 27,718 | 56% | 0.00 | 15 | \$2,903 | 86% | 3.2 |
| DLC | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Restaurant | Motors | New | motor | 27,199 | 57% | 0.00 | 15 | \$2,843 | 86% | 3.3 |
| DLC | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Restaurant | Motors | ROB | motor | 27,199 | 57% | 0.00 | 15 | \$2,843 | 86% | 3.3 |
| DLC | VFD on HVAC Fan | Motor w/out VFD | Restaurant | Motors | Early | motor | 18,724 | 70% | 3.4 | 15 | \$2,903 | 86% | 3.9 |
| DLC | VFD on HVAC Fan | Motor w/out VFD | Restaurant | Motors | New | motor | 18,373 | 71% | 3.3 | 15 | \$2,843 | 86% | 3.9 |
| DLC | VFD on HVAC Fan | Motor w/out VFD | Restaurant | Motors | ROB | motor | 18,373 | 71% | 3.3 | 15 | \$2,843 | 86% | 3.9 |
| DLC | Elevators | Std. Eff Elevator | Restaurant | Other | ROB | measure | 89,016 | 4.7% | 0.2 | 15 | \$443 | 81% | 6.1 |
| DLC | Variable Speed Drives on Process Equipment | Constant speed control | Restaurant | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 11.5 |
| DLC | Variable Speed Drives on Process Equipment | Constant speed control | Restaurant | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 11.5 |
| DLC | 9W Exit Sign Retrofit: CFL replacing Incandescent | One 23W Single Sided Incandescent Exit Sign | Restaurant | Other Int. Lighting | Early | exit sign | 121 | 42% | 0.01 | 15 | \$48 | 22% | 0.8 |
| DLC | Auto Off Time Switch | Lighting w/ No Controls | Restaurant | Other Int. Lighting | Existing | building | 5,191 | 24% | 0.2 | 8 | \$181 | 13% | 2.8 |
| DLC | Auto Off Time Switch | Lighting w/ No Controls | Restaurant | Other Int. Lighting | New | building | 5,191 | 7.0% | 0.07 | 8 | \$181 | 0% | 0.8 |
| DLC | Central Lighting Control System | Lighting w/ No Controls | Restaurant | Other Int. Lighting | Existing | building | 5,191 | 38% | 0.4 | 8 | \$181 | 13% | 4.5 |
| DLC | Central Lighting Control System | Lighting w/ No Controls | Restaurant | Other Int. Lighting | New | building | 5,191 | 14% | 0.1 | 8 | \$181 | 13% | 1.6 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 40W Incandescent Bulb | Restaurant | Other Int. Lighting | Early | lamp | 253 | 87% | 0.05 | 5 | \$30 | 14% | 1.9 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Restaurant | Other Int. Lighting | Early | lamp | 181 | 81% | 0.03 | 5 | \$30 | 11% | 1.3 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Restaurant | Other Int. Lighting | New | lamp | 138 | 81% | 0.02 | 5 | \$21 | 14% | 1.4 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Restaurant | Other Int. Lighting | New | lamp | 138 | 81% | 0.02 | 5 | \$23 | 14% | 1.3 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Restaurant | Other Int. Lighting | New | lamp | 138 | 81% | 0.02 | 5 | \$22 | 11% | 1.3 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Restaurant | Other Int. Lighting | ROB | lamp | 181 | 81% | 0.03 | 5 | \$21 | 14% | 1.8 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Restaurant | Other Int. Lighting | ROB | lamp | 181 | 81% | 0.03 | 5 | \$23 | 14% | 1.7 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Restaurant | Other Int. Lighting | ROB | lamp | 181 | 81% | 0.03 | 5 | \$22 | 11% | 1.8 |
| DLC | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Restaurant | Other Int. Lighting | Early | lamp | 253 | 75% | 0.04 | 2 | \$73 | 24% | 0.3 |
| DLC | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Restaurant | Other Int. Lighting | New | fixture | 275 | 65% | 0.04 | 13 | \$29 | 28% | 4.5 |
| DLC | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Restaurant | Other Int. Lighting | New | lamp | 138 | 65% | 0.02 | 2 | \$29 | 28% | 0.4 |
| DLC | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Restaurant | Other Int. Lighting | ROB | fixture | 362 | 65% | 0.05 | 13 | \$29 | 24% | 5.9 |
| DLC | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Restaurant | Other Int. Lighting | ROB | lamp | 181 | 65% | 0.03 | 2 | \$29 | 24% | 0.5 |
| DLC | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Restaurant | Other Int. Lighting | Early | lamp | 253 | 75% | 0.04 | 2 | \$3.2 | 24% | 6.7 |
| DLC | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Restaurant | Other Int. Lighting | New | lamp | 138 | 65% | 0.02 | 2 | \$1.8 | 24% | 5.7 |
| DLC | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Restaurant | Other Int. Lighting | ROB | lamp | 181 | 65% | 0.03 | 2 | \$1.8 | 24% | 7.5 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|---|------------|---------------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Restaurant | Other Int. Lighting | ROB | lamp | 181 | 65% | 0.03 | 2 | \$1.8 | 24% | 7.5 |
| DLC | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Restaurant | Other Int. Lighting | New | building | 5,191 | 10% | 0.1 | 15 | \$46,260 | 32% | 0.0 |
| DLC | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Restaurant | Other Int. Lighting | New | building | 5,191 | 15% | 0.2 | 15 | \$115,651 | 32% | 0.0 |
| DLC | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Restaurant | Other Int. Lighting | New | building | 5,191 | 30% | 0.3 | 15 | \$165,766 | 32% | 0.0 |
| DLC | Indoor Daylight Sensors | Lighting w/ No Controls | Restaurant | Other Int. Lighting | Existing | building | 5,191 | 28% | 0.3 | 8 | \$891 | 13% | 0.7 |
| DLC | Indoor Daylight Sensors | Lighting w/ No Controls | Restaurant | Other Int. Lighting | New | building | 5,191 | 4.1% | 0.04 | 8 | \$891 | 0% | 0.1 |
| DLC | LED Exit Signs Single-sided (5W) | Existing Single-Sided Exit Signs (Average: 16 W) | Restaurant | Other Int. Lighting | Early | sign | 153 | 87% | 0.02 | 15 | \$48 | 16% | 2.0 |
| DLC | LED Exit Signs Single-sided (5W) | One 9W Single-Sided CFL Exit Sign | Restaurant | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 2.2 |
| DLC | LED Exit Signs Single-sided (5W) | One 9W Single-Sided CFL Exit Sign | Restaurant | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 2.2 |
| DLC | LED Task Lighting/Screw-In (10W) | 1 15W CFL bulb | Restaurant | Other Int. Lighting | Early | lamp | 41 | 33% | 0.00 | 8 | \$9.6 | 24% | 0.6 |
| DLC | LED Task Lighting/Screw-In (10W) | 1 60W Incandescent Bulb | Restaurant | Other Int. Lighting | Early | lamp | 163 | 83% | 0.03 | 8 | \$9.6 | 24% | 6.1 |
| DLC | LED Task Lighting/Screw-In (10W) | 1 43W EISA Compliant bulb | Restaurant | Other Int. Lighting | New | lamp | 89 | 77% | 0.02 | 8 | \$7.9 | 24% | 3.7 |
| DLC | LED Task Lighting/Screw-In (10W) | 1 43W EISA Compliant bulb | Restaurant | Other Int. Lighting | New | lamp | 89 | 77% | 0.02 | 8 | \$7.9 | 24% | 3.7 |
| DLC | LED Task Lighting/Screw-In (10W) | 1 43W EISA Compliant bulb | Restaurant | Other Int. Lighting | ROB | lamp | 116 | 77% | 0.02 | 8 | \$7.9 | 24% | 4.9 |
| DLC | LED Task Lighting/Screw-In (10W) | 1 43W EISA Compliant bulb | Restaurant | Other Int. Lighting | ROB | lamp | 116 | 77% | 0.02 | 8 | \$7.9 | 24% | 4.9 |
| DLC | Occupancy Sensor | Lighting w/ No Controls | Restaurant | Other Int. Lighting | Existing | building | 5,191 | 24% | 0.2 | 8 | \$273 | 12% | 1.9 |
| DLC | Occupancy Sensor | Lighting w/ No Controls | Restaurant | Other Int. Lighting | New | building | 5,191 | 7.0% | 0.07 | 8 | \$273 | 0% | 0.5 |
| DLC | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Restaurant | Other Int. Lighting | Existing | building | 5,191 | 28% | 0.3 | 8 | \$891 | 12% | 0.7 |
| DLC | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Restaurant | Other Int. Lighting | New | building | 5,191 | 4.1% | 0.04 | 8 | \$891 | 0% | 0.1 |
| DLC | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Restaurant | Other Int. Lighting | Early | exit sign | 121 | 100% | 0.02 | 15 | \$173 | 26% | 0.5 |
| DLC | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Restaurant | Other Int. Lighting | New | exit sign | 70 | 100% | 0.01 | 15 | \$148 | 31% | 0.4 |
| DLC | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Restaurant | Other Int. Lighting | ROB | exit sign | 70 | 100% | 0.01 | 15 | \$148 | 26% | 0.4 |
| DLC | Time Clock Control | Lighting w/ No Controls | Restaurant | Other Int. Lighting | Existing | building | 5,191 | 28% | 0.3 | 8 | \$181 | 13% | 3.3 |
| DLC | Time Clock Control | Lighting w/ No Controls | Restaurant | Other Int. Lighting | New | building | 5,191 | 4.1% | 0.04 | 8 | \$181 | 0% | 0.5 |
| DLC | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Restaurant | Plug Load | Existing | building | 456 | 46% | 0.5 | 5 | \$189 | 4% | 1.1 |
| DLC | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Restaurant | Plug Load | New | building | 456 | 46% | 0.5 | 5 | \$189 | 4% | 1.1 |
| DLC | Data Center - Server/Storage Consolidation | No Consolidation | Restaurant | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| DLC | Data Center - Server/Storage Consolidation | No Consolidation | Restaurant | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| DLC | Data Center - Server/Storage Virtualization | No Virtualization | Restaurant | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| DLC | Data Center - Server/Storage Virtualization | No Virtualization | Restaurant | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| DLC | Energy Star - Scanners | Std Scanner | Restaurant | Plug Load | New | measure | 68 | 3.8% | 0.04 | 4 | \$130 | 7% | 0.1 |
| DLC | Energy Star - Scanners | Std Scanner | Restaurant | Plug Load | ROB | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| DLC | Energy Star Dishwasher | Existing Dishwasher units | Restaurant | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,580 | 23% | 1.1 |
| DLC | Energy Star Dishwasher | Standard Dishwasher unit | Restaurant | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 23% | 3.5 |
| DLC | Energy Star Dishwasher | Standard Dishwasher unit | Restaurant | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 23% | 3.5 |
| DLC | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Restaurant | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 17% | 0.2 |
| DLC | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Restaurant | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.1 |
| DLC | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Restaurant | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.1 |
| DLC | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Restaurant | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 9% | 0.7 |
| DLC | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Restaurant | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.5 |
| DLC | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Restaurant | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.5 |
| DLC | ENERGY STAR® Copiers | 10% Less Efficient Copier | Restaurant | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 18% | 0.0 |
| DLC | ENERGY STAR® Copiers | One Conventional Copier | Restaurant | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| DLC | ENERGY STAR® Copiers | One Conventional Copier | Restaurant | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| DLC | ENERGY STAR® desktop | Standard computer | Restaurant | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 69% | 0.1 |
| DLC | ENERGY STAR® desktop | Standard computer | Restaurant | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.1 |
| DLC | ENERGY STAR® desktop | Standard computer | Restaurant | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.1 |
| DLC | ENERGY STAR® Fax | 10% Less Efficient Fax | Restaurant | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 15% | 0.0 |
| DLC | ENERGY STAR® Fax | One Conventional Fax | Restaurant | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.1 |
| DLC | ENERGY STAR® Fax | One Conventional Fax | Restaurant | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.1 |
| DLC | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Restaurant | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 70% | 0.0 |
| DLC | ENERGY STAR® Monitors | One Conventional Monitor | Restaurant | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| DLC | ENERGY STAR® Monitors | One Conventional Monitor | Restaurant | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| DLC | ENERGY STAR® Printers | 10% Less Efficient Printer | Restaurant | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 44% | 0.0 |
| DLC | ENERGY STAR® Printers | One Conventional Printer | Restaurant | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| DLC | ENERGY STAR® Printers | One Conventional Printer | Restaurant | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| DLC | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Restaurant | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 43% | 0.1 |
| DLC | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Restaurant | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.8 |
| DLC | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Restaurant | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.8 |
| DLC | ENERGY STAR® Televisions | 10% Less Efficient Television | Restaurant | Plug Load | Early | Unit | 371 | 38% | 0.02 | 6 | \$672 | 40% | 0.1 |
| DLC | ENERGY STAR® Televisions | One Conventional Television | Restaurant | Plug Load | New | Unit | 337 | 32% | 0.02 | 6 | \$206 | 40% | 0.1 |
| DLC | ENERGY STAR® Televisions | One Conventional Television | Restaurant | Plug Load | ROB | Unit | 337 | 32% | 0.02 | 6 | \$206 | 40% | 0.1 |
| DLC | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Restaurant | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 24% | 0.3 |
| DLC | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Restaurant | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.7 |
| DLC | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Restaurant | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.7 |
| DLC | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Restaurant | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 51% | 0.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|--|------------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Restaurant | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 51% | 0.3 |
| DLC | Network PC Power Management | No PC Power Management | Restaurant | Plug Load | Existing | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 5.3 |
| DLC | Network PC Power Management | No PC Power Management | Restaurant | Plug Load | New | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 5.3 |
| DLC | Smart Strip Plug Outlets | Standard plug strip/outlet | Restaurant | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.2 |
| DLC | Smart Strip Plug Outlets | Standard plug strip/outlet | Restaurant | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.2 |
| DLC | Smart Strip Plug Outlets | Standard plug strip/outlet | Restaurant | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| DLC | Smart Strip Plug Outlets | Standard plug strip/outlet | Restaurant | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| DLC | Smart Strip Plug Outlets | Standard plug strip/outlet | Restaurant | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| DLC | Smart Strip Plug Outlets | Standard plug strip/outlet | Restaurant | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| DLC | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Restaurant | Plug Load | Existing | building | 456 | 46% | 0.5 | 5 | \$180 | 3% | 1.2 |
| DLC | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Restaurant | Plug Load | New | building | 456 | 46% | 0.5 | 5 | \$180 | 3% | 1.2 |
| DLC | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Restaurant | Refrigeration | Existing | building | 3,084 | 6.1% | 0.06 | 12 | \$70 | 11% | 2.0 |
| DLC | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Restaurant | Refrigeration | New | building | 3,084 | 6.1% | 0.06 | 12 | \$70 | 11% | 2.0 |
| DLC | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Restaurant | Refrigeration | Existing | building | 3,084 | 0.9% | 0.01 | 12 | \$70 | 11% | 0.3 |
| DLC | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Restaurant | Refrigeration | New | building | 3,084 | 0.9% | 0.01 | 12 | \$70 | 11% | 0.3 |
| DLC | Auto Closer on Refrigerator Door | Door w/out Autocloser | Restaurant | Refrigeration | Existing | building | 8,910 | 8.2% | 0.08 | 8 | \$770 | 40% | 0.3 |
| DLC | Auto Closer on Refrigerator Door | Door w/out Autocloser | Restaurant | Refrigeration | Existing | building | 21,247 | 4.5% | 0.05 | 8 | \$766 | 40% | 0.4 |
| DLC | Auto Closer on Refrigerator Door | Door w/out Autocloser | Restaurant | Refrigeration | New | building | 8,910 | 8.2% | 0.08 | 8 | \$770 | 40% | 0.3 |
| DLC | Auto Closer on Refrigerator Door | Door w/out Autocloser | Restaurant | Refrigeration | New | building | 21,247 | 4.5% | 0.05 | 8 | \$766 | 40% | 0.4 |
| DLC | Demand Hot Gas Defrost | Base Refrigeration System | Restaurant | Refrigeration | Existing | measure | 3,084 | 3.0% | 0.03 | 10 | \$1,386 | 0% | 0.0 |
| DLC | Demand Hot Gas Defrost | Base Refrigeration System | Restaurant | Refrigeration | New | measure | 3,084 | 3.0% | 0.03 | 10 | \$1,386 | 0% | 0.0 |
| DLC | Door Gasket- Freezer | Door w/out Gasket | Restaurant | Refrigeration | Existing | building | 8,910 | 4.4% | 0.04 | 4 | \$79 | 29% | 0.9 |
| DLC | Door Gasket- Freezer | Door w/out Gasket | Restaurant | Refrigeration | New | building | 8,910 | 5.5% | 0.06 | 4 | \$79 | 29% | 1.1 |
| DLC | Door Gasket- Refrigerator | Door w/out Gasket | Restaurant | Refrigeration | Existing | building | 21,247 | 1.7% | 0.02 | 4 | \$106 | 45% | 0.5 |
| DLC | Door Gasket- Refrigerator | Door w/out Gasket | Restaurant | Refrigeration | New | building | 21,247 | 1.7% | 0.02 | 4 | \$106 | 45% | 0.5 |
| DLC | eCube | Refrigeration unit w/out eCube | Restaurant | Refrigeration | Existing | building | 21,247 | 15% | 0.2 | 15 | \$1,946 | 57% | 1.1 |
| DLC | eCube | Refrigeration unit w/out eCube | Restaurant | Refrigeration | New | building | 21,247 | 15% | 0.2 | 15 | \$1,946 | 57% | 1.1 |
| DLC | Efficient compressor motor | Base Refrigeration System - Grocery | Restaurant | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.3 |
| DLC | Efficient compressor motor | Base Refrigeration System - Grocery | Restaurant | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.3 |
| DLC | Efficient compressor motor | Base Refrigeration System - Grocery | Restaurant | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.3 |
| DLC | Efficient compressor motor | Base Refrigeration System - Grocery | Restaurant | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.3 |
| DLC | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Restaurant | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.6 |
| DLC | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Restaurant | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| DLC | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Restaurant | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| DLC | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Restaurant | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.3 |
| DLC | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Restaurant | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.8 |
| DLC | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Restaurant | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.8 |
| DLC | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Restaurant | Refrigeration | Existing | building | 21,247 | 1.5% | 0.02 | 10 | \$369 | 77% | 0.4 |
| DLC | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Restaurant | Refrigeration | New | building | 21,247 | 1.5% | 0.02 | 10 | \$369 | 77% | 0.4 |
| DLC | Floating head pressure controller | System w/out FHPC | Restaurant | Refrigeration | Existing | building | 8,910 | 2.6% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| DLC | Floating head pressure controller | System w/out FHPC | Restaurant | Refrigeration | Existing | building | 3,084 | 3.2% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| DLC | Floating head pressure controller | System w/out FHPC | Restaurant | Refrigeration | Existing | building | 21,247 | 0.4% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| DLC | Floating head pressure controller | System w/out FHPC | Restaurant | Refrigeration | New | building | 8,910 | 2.6% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| DLC | Floating head pressure controller | System w/out FHPC | Restaurant | Refrigeration | New | building | 21,247 | 0.4% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| DLC | Floating head pressure controller | System w/out FHPC | Restaurant | Refrigeration | New | building | 3,084 | 3.2% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| DLC | High Efficiency Commercial Freezer | Std. Commercial Freezer | Restaurant | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 79% | 0.4 |
| DLC | High Efficiency Commercial Freezer | Std. Commercial Freezer | Restaurant | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 79% | 4.4 |
| DLC | High Efficiency Commercial Freezer | Std. Commercial Freezer | Restaurant | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 79% | 4.4 |
| DLC | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Restaurant | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 79% | 0.1 |
| DLC | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Restaurant | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$406 | 79% | 1.0 |
| DLC | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Restaurant | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$406 | 79% | 1.0 |
| DLC | High Efficiency Ice Maker | Existing Standard Efficiency Ice Maker in Pennsylvania | Restaurant | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 69% | 0.2 |
| DLC | High Efficiency Ice Maker | Standard code minimum Ice Maker | Restaurant | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| DLC | High Efficiency Ice Maker | Standard code minimum Ice Maker | Restaurant | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 69% | 0.2 |
| DLC | High Efficiency Ice Making Head | Standard Ice Making Head | Restaurant | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 4.1 |
| DLC | High Efficiency Ice Making Head | Standard Ice Making Head | Restaurant | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 4.1 |
| DLC | High R-Value Glass Doors | Base Refrigeration System - Grocery | Restaurant | Refrigeration | Existing | building | 3,084 | 0.7% | 0.01 | 10 | \$53 | 0% | 0.3 |
| DLC | High R-Value Glass Doors | Base Refrigeration System - Grocery | Restaurant | Refrigeration | New | building | 3,084 | 0.7% | 0.01 | 10 | \$53 | 0% | 0.3 |
| DLC | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Restaurant | Refrigeration | Early | Fixture | 373 | 56% | 0.03 | 8 | \$448 | 89% | 0.2 |
| DLC | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Restaurant | Refrigeration | New | Fixture | 291 | 44% | 0.02 | 8 | \$139 | 89% | 0.3 |
| DLC | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Restaurant | Refrigeration | ROB | Fixture | 291 | 44% | 0.02 | 8 | \$139 | 89% | 0.3 |
| DLC | No-heat glass doors | Standard low-temp reach-in | Restaurant | Refrigeration | Existing | building | 3,084 | 20% | 0.2 | 10 | \$4,852 | 8% | 0.1 |
| DLC | No-heat glass doors | Standard low-temp reach-in | Restaurant | Refrigeration | New | building | 3,084 | 20% | 0.2 | 10 | \$4,852 | 8% | 0.1 |
| DLC | Quick acting freezer doors | Std. Freezer Doors | Restaurant | Refrigeration | Existing | building | 8,910 | 13% | 0.1 | 10 | \$2,750 | 56% | 0.2 |
| DLC | Quick acting freezer doors | Std. Freezer Doors | Restaurant | Refrigeration | New | building | 8,910 | 13% | 0.1 | 10 | \$2,750 | 56% | 0.2 |
| DLC | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Restaurant | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 29% | 0.5 |
| DLC | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Restaurant | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 29% | 1.8 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|---|------------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Restaurant | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 29% | 1.8 |
| DLC | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 29% | 1.8 |
| DLC | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 29% | 3.3 |
| DLC | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 29% | 3.3 |
| DLC | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 29% | 1.9 |
| DLC | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 29% | 4.4 |
| DLC | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 29% | 4.4 |
| DLC | Refrigeration Commissioning | Non-commissioned refrigeration system | Restaurant | Refrigeration | Existing | building | 34,269 | 9.5% | 0.10 | 3 | \$4,759 | 85% | 0.1 |
| DLC | Refrigeration Commissioning | Non-commissioned refrigeration system | Restaurant | Refrigeration | New | building | 34,269 | 9.5% | 0.10 | 3 | \$4,759 | 85% | 0.1 |
| DLC | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Restaurant | Refrigeration | Existing | building | 8,910 | 11% | 0.1 | 4 | \$96 | 22% | 1.7 |
| DLC | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Restaurant | Refrigeration | Existing | building | 21,247 | 2.0% | 0.02 | 4 | \$128 | 22% | 0.5 |
| DLC | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Restaurant | Refrigeration | New | building | 8,910 | 11% | 0.1 | 4 | \$96 | 22% | 1.7 |
| DLC | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Restaurant | Refrigeration | New | building | 21,247 | 2.0% | 0.02 | 4 | \$128 | 22% | 0.5 |
| DLC | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Restaurant | Refrigeration | Existing | building | 8,910 | 2.2% | 0.02 | 11 | \$148 | 77% | 0.7 |
| DLC | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Restaurant | Refrigeration | New | building | 8,910 | 2.2% | 0.02 | 11 | \$148 | 77% | 0.7 |
| DLC | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Restaurant | Refrigeration | Existing | building | 21,247 | 1.6% | 0.02 | 11 | \$148 | 77% | 1.1 |
| DLC | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Restaurant | Refrigeration | New | building | 21,247 | 1.6% | 0.02 | 11 | \$148 | 77% | 1.1 |
| DLC | Vertical Night Covers | Display cases w/out night covers-High Temperature | Restaurant | Refrigeration | Existing | building | 3,084 | 0.1% | 0.00 | 5 | \$38 | 9% | 0.0 |
| DLC | Vertical Night Covers | Display cases w/out night covers-High Temperature | Restaurant | Refrigeration | New | building | 3,084 | 0.1% | 0.00 | 5 | \$38 | 9% | 0.0 |
| DLC | VSD Controlled Compressor | Compressor w/out VSD | Restaurant | Refrigeration | Early | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 73% | 0.2 |
| DLC | VSD Controlled Compressor | Compressor w/out VSD | Restaurant | Refrigeration | New | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 73% | 0.2 |
| DLC | VSD Controlled Compressor | Compressor w/out VSD | Restaurant | Refrigeration | ROB | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 73% | 0.2 |
| DLC | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Restaurant | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$268 | 35% | 1.0 |
| DLC | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Restaurant | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$268 | 35% | 1.0 |
| DLC | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Restaurant | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.5 |
| DLC | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Restaurant | Refrigeration | New | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 3.3 |
| DLC | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Restaurant | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.5 |
| DLC | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Restaurant | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 3.3 |
| DLC | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 35% | 2.7 |
| DLC | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 35% | 2.5 |
| DLC | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 5.7 |
| DLC | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 5.4 |
| DLC | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 5.7 |
| DLC | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 5.4 |
| DLC | Adding reflective roof treatment | Std color roof | Restaurant | Space Heating | Existing | building | 237 | 7.1% | 0.07 | 6 | \$19,530 | 82% | 0.0 |
| DLC | Adding reflective roof treatment | Std color roof | Restaurant | Space Heating | New | building | 237 | 7.1% | 0.07 | 6 | \$19,530 | 82% | 0.0 |
| DLC | Adding window shade film | No shade film | Restaurant | Space Heating | Existing | building | 237 | 1.3% | 0.4 | 10 | \$2.9 | 13% | 91.3 |
| DLC | Adding window shade film | No shade film | Restaurant | Space Heating | New | building | 237 | 1.3% | 0.4 | 10 | \$2.9 | 13% | 91.3 |
| DLC | Adding window shade screen | No shade screen | Restaurant | Space Heating | Existing | building | 237 | 1.1% | 0.01 | 10 | \$1.1 | 13% | 7.3 |
| DLC | Adding window shade screen | No shade screen | Restaurant | Space Heating | New | building | 237 | 1.1% | 0.01 | 10 | \$1.1 | 13% | 7.3 |
| DLC | Automated control system | Manual Controls | Restaurant | Space Heating | Existing | building | 237 | 17% | 0.2 | 15 | \$259 | 51% | 0.7 |
| DLC | Automated control system | Manual Controls | Restaurant | Space Heating | New | building | 237 | 17% | 0.2 | 15 | \$259 | 94% | 0.7 |
| DLC | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Restaurant | Space Heating | Existing | building | 237 | 8.9% | 0.09 | 15 | \$26,661 | 71% | 0.0 |
| DLC | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Restaurant | Space Heating | New | building | 237 | 3.0% | 0.03 | 15 | \$25,342 | 94% | 0.0 |
| DLC | Duct Insulation, Add R8 | No Insulation | Restaurant | Space Heating | Existing | building | 237 | 1.4% | 0.04 | 15 | \$1.9 | 20% | 21.4 |
| DLC | Duct Insulation, Add R8 | No Insulation | Restaurant | Space Heating | New | building | 237 | 1.4% | 0.04 | 15 | \$1.9 | 10% | 21.4 |
| DLC | Efficient Unit Heating System | Existing Unit Heaters in PA | Restaurant | Space Heating | Early | heater | 34,344 | 23% | 0.06 | 15 | \$3,289 | 83% | 1.4 |
| DLC | Efficient Unit Heating System | Std. Unit Heater | Restaurant | Space Heating | New | heater | 30,481 | 13% | 0.03 | 15 | \$1,991 | 83% | 1.2 |
| DLC | Efficient Unit Heating System | Std. Unit Heater | Restaurant | Space Heating | ROB | heater | 30,481 | 13% | 0.03 | 15 | \$1,991 | 83% | 1.2 |
| DLC | Facility Commissioning | No Facility Commissioning | Restaurant | Space Heating | New | building | 237 | 16% | 0.2 | 10 | \$7,882 | 89% | 0.0 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Restaurant | Space Heating | Existing | building | 237 | 7.1% | 0.07 | 15 | \$1,049 | 25% | 0.1 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Restaurant | Space Heating | New | building | 237 | 7.1% | 0.07 | 15 | \$1,049 | 35% | 0.1 |
| DLC | Hi Eff HVAC System Design | No HVAC Design | Restaurant | Space Heating | New | building | 237 | 12% | 0.1 | 10 | \$111,391 | 51% | 0.0 |
| DLC | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Restaurant | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 1.1 |
| DLC | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Restaurant | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 1.1 |
| DLC | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Restaurant | Space Heating | Existing | building | 237 | 3.5% | 0.04 | 10 | \$7,735 | 81% | 0.0 |
| DLC | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Restaurant | Space Heating | New | building | 237 | 3.5% | 0.04 | 10 | \$7,735 | 81% | 0.0 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Restaurant | Space Heating | Existing | building | 237 | 3.6% | 0.04 | 11 | \$286 | 49% | 0.1 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Restaurant | Space Heating | New | building | 237 | 3.1% | 0.03 | 11 | \$146 | 49% | 0.2 |
| DLC | Re-Commissioning (Existing Construction) | No Re-Commissioning | Restaurant | Space Heating | Existing | building | 237 | 16% | 0.2 | 5 | \$12,732 | 86% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|--|------------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | VFD on Cooling Tower Fan | Motor w/out VFD | Restaurant | Space Heating | Early | motor | 18,724 | 70% | 3.4 | 15 | \$2,843 | 88% | 3.9 |
| DLC | VFD on Cooling Tower Fan | Motor w/out VFD | Restaurant | Space Heating | New | motor | 18,373 | 72% | 3.3 | 15 | \$2,843 | 88% | 3.9 |
| DLC | VFD on Cooling Tower Fan | Motor w/out VFD | Restaurant | Space Heating | ROB | motor | 18,373 | 72% | 3.3 | 15 | \$2,843 | 88% | 3.9 |
| DLC | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Restaurant | Space Heating | Existing | building | 237 | 12% | 0.1 | 15 | \$6,404 | 26% | 0.0 |
| DLC | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Restaurant | Space Heating | New | building | 237 | 0.5% | 0.01 | 15 | \$4,912 | 94% | 0.0 |
| DLC | 80W Induction Street Lighting | One 100W HPS Street Light Fixture | Restaurant | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 0% | 0.3 |
| DLC | 80W Induction Street Lighting | One 100W HPS Street Light Fixture | Restaurant | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.9 |
| DLC | 80W Induction Street Lighting | One 100W HPS Street Light Fixture | Restaurant | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.9 |
| DLC | Green LED Traffic Light | Green Incandescent Traffic Light | Restaurant | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 0% | 1.3 |
| DLC | Green LED Traffic Light | Green Incandescent Traffic Light | Restaurant | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.2 |
| DLC | Green LED Traffic Light | Green Incandescent Traffic Light | Restaurant | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.2 |
| DLC | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Restaurant | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 0% | 3.1 |
| DLC | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Restaurant | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| DLC | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Restaurant | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| DLC | LED Street Lighting (67W) | One 100W HPS Street Light | Restaurant | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 0% | 0.2 |
| DLC | LED Street Lighting (67W) | One 100W HPS Street Light | Restaurant | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.4 |
| DLC | LED Street Lighting (67W) | One 100W HPS Street Light | Restaurant | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.4 |
| DLC | Red LED Traffic Light | One Red Incandescent Traffic Light | Restaurant | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 0% | 1.7 |
| DLC | Red LED Traffic Light | One Red Incandescent Traffic Light | Restaurant | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| DLC | Red LED Traffic Light | One Red Incandescent Traffic Light | Restaurant | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| DLC | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Restaurant | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 0% | 0.1 |
| DLC | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Restaurant | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| DLC | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Restaurant | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| DLC | Demand controlled Circulating Systems | Constant circulation system | Restaurant | Water Heating | Existing | building | 1,248 | 20% | 0.2 | 15 | \$227 | 59% | 1.5 |
| DLC | Demand controlled Circulating Systems | Constant circulation system | Restaurant | Water Heating | New | building | 1,248 | 20% | 0.2 | 15 | \$227 | 59% | 1.5 |
| DLC | Drainwater Heat Recovery Water Heater | No heat recovery | Restaurant | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 2.1 |
| DLC | Drainwater Heat Recovery Water Heater | No heat recovery | Restaurant | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 2.1 |
| DLC | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Restaurant | Water Heating | Existing | building | 1,248 | 5.9% | 0.06 | 12 | \$14 | 85% | 6.0 |
| DLC | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Restaurant | Water Heating | New | building | 1,248 | 5.9% | 0.06 | 12 | \$4.0 | 85% | 21.0 |
| DLC | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Restaurant | Water Heating | Early | water heater | 179,161 | 66% | 21.0 | 10 | \$7,124 | 68% | 8.6 |
| DLC | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Restaurant | Water Heating | Early | water heater | 179,161 | 66% | 21.0 | 10 | \$7,124 | 68% | 8.6 |
| DLC | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Restaurant | Water Heating | New | water heater | 179,161 | 66% | 21.0 | 10 | \$7,124 | 68% | 8.6 |
| DLC | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Restaurant | Water Heating | New | water heater | 179,161 | 66% | 21.0 | 10 | \$7,124 | 68% | 8.6 |
| DLC | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Restaurant | Water Heating | ROB | water heater | 174,184 | 65% | 20.1 | 10 | \$7,124 | 68% | 8.2 |
| DLC | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Restaurant | Water Heating | ROB | water heater | 174,184 | 65% | 20.1 | 10 | \$7,124 | 68% | 8.2 |
| DLC | Heat Recovery Unit | Base Water Heating | Restaurant | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.8 |
| DLC | Heat Recovery Unit | Base Water Heating | Restaurant | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.8 |
| DLC | Heat Trap | No Heat Trap | Restaurant | Water Heating | Existing | building | 1,248 | 1.0% | 0.01 | 11 | \$0.2 | 50% | 55.2 |
| DLC | Heat Trap | No Heat Trap | Restaurant | Water Heating | New | building | 1,248 | 1.0% | 0.01 | 11 | \$0.1 | 50% | 144.1 |
| DLC | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Restaurant | Water Heating | Early | water heater | 179,161 | 5.9% | 1.9 | 15 | \$1,842 | 79% | 4.5 |
| DLC | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Restaurant | Water Heating | Early | water heater | 179,161 | 5.9% | 1.9 | 15 | \$1,842 | 79% | 4.5 |
| DLC | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Restaurant | Water Heating | New | water heater | 174,184 | 3.2% | 1.0 | 15 | \$1,842 | 79% | 2.4 |
| DLC | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Restaurant | Water Heating | New | water heater | 174,184 | 3.2% | 1.0 | 15 | \$1,842 | 79% | 2.4 |
| DLC | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Restaurant | Water Heating | ROB | water heater | 174,184 | 3.2% | 1.0 | 15 | \$1,842 | 79% | 2.4 |
| DLC | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Restaurant | Water Heating | ROB | water heater | 174,184 | 3.2% | 1.0 | 15 | \$1,842 | 79% | 2.4 |
| DLC | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Restaurant | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$466 | 81% | 43.7 |
| DLC | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Restaurant | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 22.8 |
| DLC | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Restaurant | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 22.8 |
| DLC | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Restaurant | Water Heating | Existing | building | 1,248 | 3.0% | 0.03 | 13 | \$5.5 | 68% | 8.3 |
| DLC | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Restaurant | Water Heating | New | building | 1,248 | 3.0% | 0.03 | 13 | \$5.5 | 0% | 8.3 |
| DLC | Hot Water Circulation Pump Time-Clock | Constant circulation system | Restaurant | Water Heating | Existing | building | 1,248 | 5.3% | 0.05 | 10 | \$5.0 | 72% | 12.6 |
| DLC | Hot Water Circulation Pump Time-Clock | Constant circulation system | Restaurant | Water Heating | New | building | 1,248 | 5.3% | 0.05 | 10 | \$5.0 | 72% | 12.6 |
| DLC | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Restaurant | Water Heating | Existing | building | 1,148 | 0.1% | 0.00 | 7 | \$22 | 78% | 0.0 |
| DLC | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Restaurant | Water Heating | New | building | 1,148 | 6.6% | 0.07 | 7 | \$0.5 | 78% | 105.7 |
| DLC | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Restaurant | Water Heating | Existing | building | 1,248 | 13% | 0.1 | 5 | \$300 | 80% | 0.3 |
| DLC | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Restaurant | Water Heating | New | building | 1,248 | 13% | 0.1 | 5 | \$194 | 80% | 0.4 |
| DLC | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Restaurant | Water Heating | Existing | building | 1,248 | 6.5% | 0.07 | 9 | \$25 | 2% | 2.8 |
| DLC | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Restaurant | Water Heating | New | building | 1,248 | 6.5% | 0.07 | 9 | \$6.0 | 2% | 11.7 |
| DLC | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Restaurant | Water Heating | Early | water heater | 179,161 | 52% | 7.6 | 15 | \$37,332 | 32% | 1.7 |
| DLC | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Restaurant | Water Heating | New | water heater | 174,184 | 51% | 7.2 | 15 | \$37,332 | 32% | 1.6 |
| DLC | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Restaurant | Water Heating | ROB | water heater | 174,184 | 51% | 7.2 | 15 | \$37,332 | 32% | 1.6 |
| DLC | Ultrasonic Faucet Control | Manual Faucet Control | Restaurant | Water Heating | Existing | building | 1,248 | 3.0% | 0.03 | 10 | \$216 | 77% | 0.2 |
| DLC | Ultrasonic Faucet Control | Manual Faucet Control | Restaurant | Water Heating | New | building | 1,248 | 3.0% | 0.03 | 10 | \$216 | 77% | 0.2 |
| DLC | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Restaurant | Water Heating | Existing | building | 1,248 | 2.2% | 0.02 | 4 | \$28 | 83% | 0.4 |
| DLC | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Restaurant | Water Heating | New | building | 1,248 | 2.3% | 0.02 | 4 | \$28 | 83% | 0.4 |
| DLC | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Retail | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.2 |
| DLC | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Retail | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.2 |
| DLC | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Retail | Cooking | Early | steamer | 51 | 46% | 0.00 | 12 | \$5,053 | 81% | 0.0 |
| DLC | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Retail | Cooking | New | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|---|---------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Retail | Cooking | ROB | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| DLC | Electric combination oven (Energy Star) | Standard Oven | Retail | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 3.3 |
| DLC | Electric combination oven (Energy Star) | Standard Oven | Retail | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 3.3 |
| DLC | Electric Convection Oven ENERTY STAR (74% Eff) | Conventional convection oven w/ 65% efficiency | Retail | Cooking | Early | oven | 8,641 | 37% | 0.6 | 12 | \$4,119 | 81% | 0.5 |
| DLC | Electric Convection Oven ENERTY STAR (74% Eff) | Conventional convection oven w/ 70% efficiency | Retail | Cooking | New | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.8 |
| DLC | Electric Convection Oven ENERTY STAR (74% Eff) | Conventional convection oven w/ 70% efficiency | Retail | Cooking | ROB | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.8 |
| DLC | High Efficiency Fryer (ENERGY STAR 84% Eff) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Retail | Cooking | Early | fryer | 6,105 | 23% | 0.3 | 12 | \$9,241 | 86% | 0.1 |
| DLC | High Efficiency Fryer (ENERGY STAR 84% Eff) | Standard Electric Fryer meeting Code Minimum | Retail | Cooking | New | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.4 |
| DLC | High Efficiency Fryer (ENERGY STAR 84% Eff) | Standard Electric Fryer meeting Code Minimum | Retail | Cooking | ROB | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.4 |
| DLC | High Efficiency Griddle (ENERGY STAR 75% Eff) | Efficiency code minimum griddle (70% eff) | Retail | Cooking | Early | griddle | 11,317 | 65% | 1.4 | 12 | \$4,977 | 86% | 1.0 |
| DLC | High Efficiency Griddle (ENERGY STAR 75% Eff) | Conventional Griddle w/ 60% efficiency | Retail | Cooking | New | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.3 |
| DLC | High Efficiency Griddle (ENERGY STAR 75% Eff) | Conventional Griddle w/ 60% efficiency | Retail | Cooking | ROB | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.3 |
| DLC | High Efficiency Induction Cooking | Standard Cooking | Retail | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.2 |
| DLC | High Efficiency Induction Cooking | Standard Cooking | Retail | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.2 |
| DLC | Adding reflective roof treatment | Std color roof | Retail | Cooling Central | Existing | building | 3,712 | 7.0% | 0.07 | 6 | \$14,374 | 82% | 0.0 |
| DLC | Adding reflective roof treatment | Std color roof | Retail | Cooling Central | New | building | 3,712 | 7.0% | 0.07 | 6 | \$14,374 | 82% | 0.0 |
| DLC | Adding window shade film | No shade film | Retail | Cooling Central | Existing | building | 3,712 | 1.3% | 0.4 | 10 | \$45 | 13% | 6.2 |
| DLC | Adding window shade film | No shade film | Retail | Cooling Central | New | building | 3,712 | 1.3% | 0.4 | 10 | \$45 | 13% | 6.2 |
| DLC | Adding window shade screen | No shade screen | Retail | Cooling Central | Existing | building | 3,712 | 1.1% | 0.01 | 10 | \$17 | 13% | 1.3 |
| DLC | Adding window shade screen | No shade screen | Retail | Cooling Central | New | building | 3,712 | 1.0% | 0.01 | 10 | \$17 | 13% | 1.3 |
| DLC | Automated control system | Manual Controls | Retail | Cooling Central | Existing | building | 3,712 | 17% | 0.2 | 15 | \$4,064 | 51% | 0.1 |
| DLC | Automated control system | Manual Controls | Retail | Cooling Central | New | building | 3,712 | 17% | 0.2 | 15 | \$4,064 | 94% | 0.1 |
| DLC | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Retail | Cooling Central | Existing | building | 3,712 | 4.9% | 0.05 | 15 | \$19,662 | 71% | 0.0 |
| DLC | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Retail | Cooling Central | New | building | 3,712 | 1.6% | 0.02 | 15 | \$18,689 | 94% | 0.0 |
| DLC | Chiller Tuneup/Diagnostics | No tuneup | Retail | Cooling Central | Existing | building | 3,712 | 8.0% | 0.08 | 10 | \$9,478 | 59% | 0.0 |
| DLC | Chiller Tuneup/Diagnostics | No tuneup | Retail | Cooling Central | New | building | 3,712 | 8.0% | 0.08 | 10 | \$9,478 | 59% | 0.0 |
| DLC | Cooling Tower Optimization | No Cooling Tower Optimization | Retail | Cooling Central | Existing | building | 3,712 | 20% | 0.2 | 10 | \$23 | 69% | 18.7 |
| DLC | Duct Insulation, Add R8 | No Insulation | Retail | Cooling Central | Existing | building | 3,712 | 1.4% | 0.04 | 15 | \$29 | 20% | 2.4 |
| DLC | Duct Insulation, Add R8 | No Insulation | Retail | Cooling Central | New | building | 3,712 | 1.4% | 0.04 | 15 | \$29 | 10% | 2.4 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Retail | Cooling Central | Existing | building | 3,712 | 7.0% | 0.07 | 15 | \$16,465 | 25% | 0.0 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Retail | Cooling Central | New | building | 3,712 | 7.0% | 0.07 | 15 | \$16,465 | 35% | 0.0 |
| DLC | Hi Eff HVAC System Design | No HVAC Design | Retail | Cooling Central | New | building | 3,712 | 11% | 0.1 | 10 | \$176,830 | 51% | 0.0 |
| DLC | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Retail | Cooling Central | Early | ton | 8,181 | 24% | 0.7 | 15 | \$108,550 | 88% | 0.0 |
| DLC | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Retail | Cooling Central | New | ton | 6,688 | 6.7% | 0.2 | 15 | \$12,927 | 88% | 0.0 |
| DLC | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Retail | Cooling Central | ROB | ton | 6,688 | 6.7% | 0.2 | 15 | \$12,927 | 88% | 0.0 |
| DLC | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Retail | Cooling Central | Early | ton | 12,225 | 23% | 1.0 | 15 | \$140,105 | 88% | 0.0 |
| DLC | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Retail | Cooling Central | New | ton | 9,835 | 4.9% | 0.2 | 15 | \$9,336 | 88% | 0.0 |
| DLC | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Retail | Cooling Central | ROB | ton | 9,835 | 4.8% | 0.2 | 15 | \$9,336 | 88% | 0.0 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Retail | Cooling Central | Early | ton | 100,076 | 26% | 9.0 | 15 | \$105,354 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Retail | Cooling Central | New | ton | 87,195 | 15% | 4.5 | 15 | \$30,530 | 88% | 0.4 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Retail | Cooling Central | ROB | ton | 87,195 | 15% | 4.5 | 15 | \$30,530 | 88% | 0.4 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Retail | Cooling Central | Early | ton | 149,886 | 23% | 11.9 | 15 | \$154,107 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Retail | Cooling Central | New | ton | 137,689 | 16% | 7.7 | 15 | \$27,646 | 88% | 0.8 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Retail | Cooling Central | ROB | ton | 149,886 | 23% | 11.9 | 15 | \$27,646 | 88% | 1.2 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Retail | Cooling Central | Early | ton | 248,933 | 23% | 19.5 | 15 | \$302,924 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Retail | Cooling Central | New | ton | 225,302 | 14% | 11.3 | 15 | \$115,432 | 88% | 0.3 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Retail | Cooling Central | ROB | ton | 248,933 | 23% | 19.5 | 15 | \$115,432 | 88% | 0.5 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Retail | Cooling Central | Early | ton | 298,720 | 23% | 23.4 | 15 | \$350,154 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Retail | Cooling Central | New | ton | 270,362 | 14% | 13.6 | 15 | \$120,406 | 88% | 0.3 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Retail | Cooling Central | ROB | ton | 298,720 | 23% | 23.4 | 15 | \$120,406 | 88% | 0.5 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Retail | Cooling Central | Early | ton | 66,214 | 29% | 6.7 | 15 | \$83,632 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Retail | Cooling Central | New | ton | 51,414 | 8.9% | 1.6 | 15 | \$40,211 | 88% | 0.1 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Retail | Cooling Central | ROB | ton | 66,214 | 29% | 6.7 | 15 | \$40,211 | 88% | 0.5 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|---|---------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Retail | Cooling Central | Early | ton | 113,772 | 35% | 13.8 | 15 | \$132,173 | 88% | 0.3 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Retail | Cooling Central | New | ton | 84,854 | 13% | 3.7 | 15 | \$39,556 | 88% | 0.3 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Retail | Cooling Central | ROB | ton | 84,854 | 13% | 3.7 | 15 | \$39,556 | 88% | 0.3 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Retail | Cooling Central | Early | ton | 189,951 | 39% | 25.8 | 15 | \$187,029 | 88% | 0.4 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Retail | Cooling Central | New | ton | 135,432 | 15% | 6.9 | 15 | \$33,554 | 88% | 0.6 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Retail | Cooling Central | ROB | ton | 189,951 | 39% | 25.8 | 15 | \$33,554 | 88% | 2.1 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Retail | Cooling Central | Early | ton | 33,239 | 30% | 3.4 | 15 | \$32,398 | 88% | 0.3 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Retail | Cooling Central | New | ton | 26,334 | 11% | 1.0 | 15 | \$7,188 | 88% | 0.4 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Retail | Cooling Central | ROB | ton | 33,239 | 30% | 3.4 | 15 | \$7,188 | 88% | 1.3 |
| DLC | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Retail | Cooling Central | Existing | building | 3,712 | 2.3% | 0.02 | 10 | \$1,539 | 81% | 0.0 |
| DLC | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Retail | Cooling Central | New | building | 3,712 | 2.3% | 0.02 | 10 | \$1,539 | 81% | 0.0 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Retail | Cooling Central | Existing | building | 3,712 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.2 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Retail | Cooling Central | New | building | 3,712 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.3 |
| DLC | Re-Commissioning (Existing Construction) | No Re-Commissioning | Retail | Cooling Central | Existing | building | 3,712 | 16% | 0.2 | 5 | \$8,051 | 86% | 0.0 |
| DLC | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Retail | Cooling Central | Existing | building | 3,712 | 8.1% | 0.08 | 15 | \$5,499 | 26% | 0.0 |
| DLC | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Retail | Cooling Central | New | building | 3,712 | 0.3% | 0.00 | 15 | \$4,218 | 94% | 0.0 |
| DLC | <65k BTU/hr 14 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Retail | Cooling Unitary | Early | ton | 2,494 | 16% | 0.3 | 15 | \$1,545 | 29% | 0.3 |
| DLC | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Retail | Cooling Unitary | New | ton | 2,259 | 7.1% | 0.1 | 15 | \$339 | 29% | 0.6 |
| DLC | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Retail | Cooling Unitary | ROB | ton | 2,259 | 7.1% | 0.1 | 15 | \$339 | 29% | 0.6 |
| DLC | <65k BTU/hr 15 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Retail | Cooling Unitary | Early | ton | 2,494 | 22% | 0.4 | 15 | \$1,821 | 30% | 0.4 |
| DLC | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Retail | Cooling Unitary | New | ton | 2,259 | 13% | 0.2 | 15 | \$714 | 30% | 0.5 |
| DLC | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Retail | Cooling Unitary | ROB | ton | 2,259 | 13% | 0.2 | 15 | \$714 | 30% | 0.5 |
| DLC | <65k BTU/hr 16 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Retail | Cooling Unitary | Early | ton | 2,494 | 26% | 0.5 | 15 | \$2,098 | 31% | 0.4 |
| DLC | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Retail | Cooling Unitary | New | ton | 2,259 | 19% | 0.3 | 15 | \$1,089 | 31% | 0.5 |
| DLC | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Retail | Cooling Unitary | ROB | ton | 2,259 | 19% | 0.3 | 15 | \$1,089 | 31% | 0.5 |
| DLC | >760k min 10.2 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Retail | Cooling Unitary | Early | ton | 63,099 | 3.7% | 1.6 | 15 | \$68,066 | 56% | 0.0 |
| DLC | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Retail | Cooling Unitary | New | ton | 63,908 | 4.9% | 2.2 | 15 | \$6,231 | 56% | 0.6 |
| DLC | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Retail | Cooling Unitary | ROB | ton | 63,908 | 4.9% | 2.2 | 15 | \$6,231 | 56% | 0.6 |
| DLC | 135-240k min 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Retail | Cooling Unitary | Early | ton | 15,526 | 18% | 1.9 | 15 | \$18,135 | 79% | 0.2 |
| DLC | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Retail | Cooling Unitary | New | ton | 14,123 | 10.0% | 1.0 | 15 | \$1,948 | 79% | 0.9 |
| DLC | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Retail | Cooling Unitary | ROB | ton | 14,123 | 10.0% | 1.0 | 15 | \$1,948 | 79% | 0.9 |
| DLC | 240k-760k min 11 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Retail | Cooling Unitary | Early | ton | 41,512 | 9.0% | 2.6 | 15 | \$44,809 | 66% | 0.1 |
| DLC | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Retail | Cooling Unitary | New | ton | 41,616 | 9.3% | 2.7 | 15 | \$4,813 | 66% | 1.0 |
| DLC | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Retail | Cooling Unitary | ROB | ton | 41,616 | 9.3% | 2.7 | 15 | \$4,813 | 66% | 1.0 |
| DLC | 65k-135k BTU/hr 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Retail | Cooling Unitary | Early | ton | 9,152 | 17% | 1.1 | 15 | \$10,946 | 86% | 0.2 |
| DLC | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Retail | Cooling Unitary | New | ton | 8,157 | 6.7% | 0.4 | 15 | \$1,392 | 86% | 0.5 |
| DLC | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Retail | Cooling Unitary | ROB | ton | 8,157 | 6.7% | 0.4 | 15 | \$1,392 | 86% | 0.5 |
| DLC | Adding reflective roof treatment | Std color roof | Retail | Cooling Unitary | Existing | building | 34,438 | 7.0% | 0.07 | 6 | \$14,374 | 82% | 0.0 |
| DLC | Adding reflective roof treatment | Std color roof | Retail | Cooling Unitary | New | building | 34,438 | 7.1% | 0.07 | 6 | \$14,374 | 82% | 0.0 |
| DLC | Adding window shade film | No shade film | Retail | Cooling Unitary | Existing | building | 34,438 | 1.3% | 0.4 | 10 | \$419 | 12% | 1.0 |
| DLC | Adding window shade film | No shade film | Retail | Cooling Unitary | New | building | 34,438 | 1.3% | 0.4 | 10 | \$419 | 13% | 1.0 |
| DLC | Adding window shade screen | No shade screen | Retail | Cooling Unitary | Existing | building | 34,438 | 1.1% | 0.01 | 10 | \$162 | 12% | 0.9 |
| DLC | Adding window shade screen | No shade screen | Retail | Cooling Unitary | New | building | 34,438 | 1.1% | 0.01 | 10 | \$162 | 13% | 1.0 |
| DLC | Automated control system | Manual Controls | Retail | Cooling Unitary | Existing | building | 34,438 | 17% | 0.2 | 15 | \$37,701 | 51% | 0.1 |
| DLC | Automated control system | Manual Controls | Retail | Cooling Unitary | New | building | 34,438 | 17% | 0.2 | 15 | \$37,701 | 94% | 0.1 |
| DLC | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Retail | Cooling Unitary | Existing | building | 34,438 | 4.9% | 0.05 | 15 | \$19,662 | 71% | 0.1 |
| DLC | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Retail | Cooling Unitary | New | building | 34,438 | 1.6% | 0.02 | 15 | \$18,689 | 94% | 0.0 |
| DLC | Duct Insulation, Add R8 | No Insulation | Retail | Cooling Unitary | Existing | building | 34,438 | 1.4% | 0.04 | 15 | \$274 | 20% | 1.2 |
| DLC | Duct Insulation, Add R8 | No Insulation | Retail | Cooling Unitary | New | building | 34,438 | 1.4% | 0.04 | 15 | \$274 | 10% | 1.2 |
| DLC | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Retail | Cooling Unitary | Existing | building | 18,941 | 13% | 0.1 | 1 | \$182 | 73% | 0.6 |
| DLC | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Retail | Cooling Unitary | New | building | 18,941 | 13% | 0.1 | 1 | \$182 | 73% | 0.6 |
| DLC | ECM Motors for split systems | Std Shaded Pole Motor | Retail | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 3.2 |
| DLC | ECM Motors for split systems | Std Shaded Pole Motor | Retail | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 3.2 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Retail | Cooling Unitary | Existing | building | 34,438 | 7.1% | 0.07 | 15 | \$152,757 | 25% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|--|---------|-----------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Retail | Cooling Unitary | New | building | 34,438 | 7.0% | 0.07 | 15 | \$152,757 | 35% | 0.0 |
| DLC | Hi Eff HVAC System Design | No HVAC Design | Retail | Cooling Unitary | New | building | 34,438 | 11% | 0.1 | 10 | \$15,410 | 51% | 0.1 |
| DLC | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Retail | Cooling Unitary | Existing | building | 34,438 | 5.0% | 0.05 | 5 | \$225 | 59% | 1.5 |
| DLC | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Retail | Cooling Unitary | Existing | building | 34,438 | 0.8% | 0.1 | 5 | \$225 | 51% | 0.4 |
| DLC | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Retail | Cooling Unitary | New | building | 34,438 | 0.7% | 0.09 | 5 | \$135 | 51% | 0.6 |
| DLC | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Retail | Cooling Unitary | Existing | building | 34,438 | 2.3% | 0.02 | 10 | \$1,654 | 86% | 0.2 |
| DLC | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Retail | Cooling Unitary | New | building | 34,438 | 2.3% | 0.02 | 10 | \$1,654 | 86% | 0.2 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) | Retail | Cooling Unitary | Existing | building | 34,438 | 2.0% | 0.02 | 11 | \$286 | 49% | 1.1 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Retail | Cooling Unitary | New | building | 34,438 | 1.7% | 0.02 | 11 | \$146 | 49% | 1.9 |
| DLC | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Retail | Cooling Unitary | Early | unit | 3,238 | 19% | 0.1 | 15 | \$849 | 85% | 0.6 |
| DLC | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Retail | Cooling Unitary | New | unit | 3,271 | 20% | 0.1 | 15 | \$356 | 85% | 1.4 |
| DLC | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Retail | Cooling Unitary | ROB | unit | 3,271 | 20% | 0.1 | 15 | \$356 | 85% | 1.4 |
| DLC | Re-Commissioning (Existing Construction) | No Re-Commissioning | Retail | Cooling Unitary | Existing | building | 34,438 | 16% | 0.2 | 5 | \$8,051 | 86% | 0.1 |
| DLC | Room AC (w/ louvered sides) | Existing efficiency Room AC in Pennsylvania (2000 Federal Standards) | Retail | Cooling Unitary | Early | ton | 1,061 | 13% | 0.05 | 9 | \$348 | 82% | 0.2 |
| DLC | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Retail | Cooling Unitary | New | ton | 962 | 4.5% | 0.01 | 9 | \$17 | 82% | 1.4 |
| DLC | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Retail | Cooling Unitary | ROB | ton | 962 | 4.5% | 0.01 | 9 | \$17 | 82% | 1.4 |
| DLC | Wall Insualtions (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Retail | Cooling Unitary | Existing | building | 34,438 | 8.1% | 0.08 | 15 | \$5,499 | 26% | 0.3 |
| DLC | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Retail | Cooling Unitary | New | building | 34,438 | 0.3% | 0.00 | 15 | \$4,218 | 94% | 0.0 |
| DLC | 80W Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Retail | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 0% | 0.2 |
| DLC | 80W Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Retail | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| DLC | 80W Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Retail | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| DLC | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Retail | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 1.2 |
| DLC | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Retail | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.7 |
| DLC | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Retail | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.7 |
| DLC | LED exterior lighting | 250 Watt Incandescent | Retail | Ext. Lighting | ROB | measure | 475 | 83% | 0.1 | 15 | \$104 | 89% | 3.2 |
| DLC | LED exterior lighting | 250 Watt Incandescent | Retail | Ext. Lighting | ROB | measure | 431 | 83% | 0.1 | 15 | \$104 | 89% | 3.0 |
| DLC | LED exterior lighting | 250 Watt Incandescent | Retail | Ext. Lighting | ROB | measure | 431 | 83% | 0.1 | 15 | \$104 | 89% | 3.0 |
| DLC | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Retail | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 75% | 0.3 |
| DLC | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Retail | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 75% | 0.2 |
| DLC | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Retail | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 3.1 |
| DLC | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Retail | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.3 |
| DLC | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Retail | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 3.1 |
| DLC | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Retail | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.3 |
| DLC | Photocell Controls (Outdoor) | Lighting w/ No Controls | Retail | Ext. Lighting | Existing | building | 179 | 28% | 0.3 | 8 | \$1,459 | 88% | 0.1 |
| DLC | Photocell Controls (Outdoor) | Lighting w/ No Controls | Retail | Ext. Lighting | New | building | 179 | 28% | 0.3 | 8 | \$1,459 | 0% | 0.1 |
| DLC | Adding reflective roof treatment | Std color roof | Retail | Heat Pump | Existing | building | 3,503 | 6.9% | 0.07 | 6 | \$14,374 | 82% | 0.0 |
| DLC | Adding reflective roof treatment | Std color roof | Retail | Heat Pump | New | building | 3,503 | 6.9% | 0.07 | 6 | \$14,374 | 82% | 0.0 |
| DLC | Adding window shade film | No shade film | Retail | Heat Pump | Existing | building | 3,503 | 3.9% | 0.4 | 10 | \$43 | 12% | 7.4 |
| DLC | Adding window shade film | No shade film | Retail | Heat Pump | New | building | 3,503 | 3.9% | 0.4 | 10 | \$43 | 12% | 7.4 |
| DLC | Adding window shade screen | No shade screen | Retail | Heat Pump | Existing | building | 3,503 | 0.3% | 0.01 | 10 | \$5.5 | 12% | 2.1 |
| DLC | Adding window shade screen | No shade screen | Retail | Heat Pump | New | building | 3,503 | 0.3% | 0.01 | 10 | \$5.5 | 12% | 2.1 |
| DLC | Automated control system | Manual Controls | Retail | Heat Pump | Existing | building | 3,503 | 17% | 0.2 | 15 | \$3,835 | 51% | 0.1 |
| DLC | Automated control system | Manual Controls | Retail | Heat Pump | New | building | 3,503 | 17% | 0.2 | 15 | \$3,835 | 94% | 0.1 |
| DLC | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Retail | Heat Pump | Existing | building | 3,503 | 4.9% | 0.05 | 15 | \$19,662 | 71% | 0.0 |
| DLC | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Retail | Heat Pump | New | building | 3,503 | 1.6% | 0.02 | 15 | \$18,689 | 94% | 0.0 |
| DLC | Duct Insulation, Add R8 | No Insulation | Retail | Heat Pump | Existing | building | 3,503 | 4.0% | 0.04 | 15 | \$28 | 12% | 4.4 |
| DLC | Duct Insulation, Add R8 | No Insulation | Retail | Heat Pump | New | building | 3,503 | 4.0% | 0.04 | 15 | \$28 | 6% | 4.4 |
| DLC | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Retail | Heat Pump | Early | heat pump | 1,805 | 13% | 0.02 | 15 | \$4,070 | 83% | 0.0 |
| DLC | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Retail | Heat Pump | New | heat pump | 1,712 | 7.7% | 0.01 | 15 | \$1,097 | 83% | 0.1 |
| DLC | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Retail | Heat Pump | ROB | heat pump | 1,712 | 7.7% | 0.01 | 15 | \$1,097 | 83% | 0.1 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Retail | Heat Pump | Existing | building | 3,503 | 7.0% | 0.07 | 15 | \$15,538 | 25% | 0.0 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Retail | Heat Pump | New | building | 3,503 | 7.0% | 0.07 | 15 | \$15,538 | 35% | 0.0 |
| DLC | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Retail | Heat Pump | Early | heat pump | 18,787 | 17% | 0.3 | 15 | \$91,117 | 19% | 0.0 |
| DLC | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Retail | Heat Pump | New | heat pump | 18,021 | 14% | 0.2 | 15 | \$33,927 | 19% | 0.1 |
| DLC | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Retail | Heat Pump | ROB | heat pump | 18,021 | 14% | 0.2 | 15 | \$33,927 | 19% | 0.1 |
| DLC | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Retail | Heat Pump | Early | heat pump | 18,787 | 17% | 0.3 | 15 | \$58,356 | 19% | 0.0 |
| DLC | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Retail | Heat Pump | New | heat pump | 18,021 | 14% | 0.2 | 15 | \$1,167 | 19% | 1.5 |
| DLC | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Retail | Heat Pump | ROB | heat pump | 18,021 | 14% | 0.2 | 15 | \$1,167 | 19% | 1.5 |
| DLC | Hi Eff HVAC System Design | No HVAC Design | Retail | Heat Pump | New | building | 3,503 | 11% | 0.1 | 10 | \$176,830 | 51% | 0.0 |
| DLC | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Retail | Heat Pump | Early | heat pump | 4,814 | 17% | 0.07 | 12 | \$4,298 | 81% | 0.1 |
| DLC | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Retail | Heat Pump | New | heat pump | 4,565 | 13% | 0.05 | 12 | \$852 | 81% | 0.4 |
| DLC | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Retail | Heat Pump | ROB | heat pump | 4,565 | 13% | 0.05 | 12 | \$852 | 81% | 0.4 |
| DLC | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Retail | Heat Pump | Existing | building | 3,503 | 5.0% | 0.02 | 5 | \$90 | 51% | 0.4 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|--|---------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Retail | Heat Pump | New | building | 3,503 | 5.0% | 0.02 | 5 | \$90 | 51% | 0.4 |
| DLC | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Retail | Heat Pump | Existing | building | 3,503 | 2.3% | 0.02 | 10 | \$1,473 | 81% | 0.0 |
| DLC | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Retail | Heat Pump | New | building | 3,503 | 2.3% | 0.02 | 10 | \$1,473 | 81% | 0.0 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Retail | Heat Pump | Existing | building | 3,503 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.2 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Retail | Heat Pump | New | building | 3,503 | 2.1% | 0.02 | 11 | \$146 | 49% | 0.3 |
| DLC | Re-Commissioning (Existing Construction) | No Re-Commissioning | Retail | Heat Pump | Existing | building | 3,503 | 16% | 0.2 | 5 | \$8,051 | 86% | 0.0 |
| DLC | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Retail | Heat Pump | New | measure | 679,680 | 2.0% | 1.6 | 13 | \$85,564 | 43% | 0.1 |
| DLC | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Retail | Heat Pump | ROB | measure | 679,680 | 2.0% | 1.6 | 13 | \$85,564 | 43% | 0.1 |
| DLC | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Retail | Heat Pump | Existing | building | 3,503 | 8.1% | 0.08 | 15 | \$5,499 | 26% | 0.0 |
| DLC | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Retail | Heat Pump | New | building | 3,503 | 0.3% | 0.00 | 15 | \$4,218 | 94% | 0.0 |
| DLC | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Retail | Heat Pump | Early | heat pump | 7,633 | 33% | 0.2 | 15 | \$35,347 | 28% | 0.0 |
| DLC | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Retail | Heat Pump | New | heat pump | 7,197 | 29% | 0.2 | 15 | \$15,739 | 28% | 0.1 |
| DLC | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Retail | Heat Pump | ROB | heat pump | 7,197 | 29% | 0.2 | 15 | \$15,739 | 28% | 0.1 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Retail | High Bay Lighting | Early | Fixture | 614 | 9.6% | 0.02 | 13 | \$850 | 39% | 0.1 |
| DLC | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Retail | High Bay Lighting | Early | Fixture | 613 | 9.5% | 0.02 | 13 | \$850 | 28% | 0.1 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Retail | High Bay Lighting | Early | Fixture | 947 | 41% | 0.1 | 13 | \$850 | 36% | 0.4 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Retail | High Bay Lighting | New | Fixture | 466 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Retail | High Bay Lighting | New | Fixture | 434 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Retail | High Bay Lighting | New | Fixture | 720 | 41% | 0.08 | 13 | \$397 | 36% | 0.6 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Retail | High Bay Lighting | ROB | Fixture | 614 | 9.6% | 0.02 | 13 | \$372 | 39% | 0.1 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Retail | High Bay Lighting | ROB | Fixture | 571 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Retail | High Bay Lighting | ROB | Fixture | 947 | 41% | 0.1 | 13 | \$397 | 36% | 0.8 |
| DLC | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Retail | High Bay Lighting | Early | Fixture | 1,192 | 19% | 0.06 | 13 | \$851 | 38% | 0.2 |
| DLC | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Retail | High Bay Lighting | Early | Fixture | 1,207 | 20% | 0.07 | 13 | \$851 | 38% | 0.2 |
| DLC | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | Early | Fixture | 3,510 | 73% | 0.7 | 13 | \$851 | 38% | 2.3 |
| DLC | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Retail | High Bay Lighting | New | Fixture | 906 | 19% | 0.05 | 13 | \$372 | 38% | 0.4 |
| DLC | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | New | Fixture | 2,667 | 73% | 0.5 | 13 | \$383 | 38% | 3.9 |
| DLC | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Retail | High Bay Lighting | ROB | Fixture | 1,192 | 19% | 0.06 | 13 | \$372 | 38% | 0.5 |
| DLC | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | ROB | Fixture | 3,510 | 73% | 0.7 | 13 | \$383 | 38% | 5.1 |
| DLC | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Retail | High Bay Lighting | Early | Fixture | 1,192 | 25% | 0.08 | 13 | \$554 | 29% | 0.4 |
| DLC | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Retail | High Bay Lighting | Early | Fixture | 1,170 | 23% | 0.07 | 13 | \$554 | 28% | 0.4 |
| DLC | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | Early | Fixture | 3,510 | 74% | 0.7 | 13 | \$554 | 36% | 3.6 |
| DLC | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Retail | High Bay Lighting | New | Fixture | 906 | 25% | 0.06 | 13 | \$75 | 29% | 2.3 |
| DLC | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | New | Fixture | 2,667 | 74% | 0.5 | 13 | \$86 | 36% | 17.7 |
| DLC | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Retail | High Bay Lighting | ROB | Fixture | 1,192 | 25% | 0.08 | 13 | \$75 | 29% | 3.0 |
| DLC | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | ROB | Fixture | 3,510 | 74% | 0.7 | 13 | \$86 | 36% | 23.2 |
| DLC | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Retail | High Bay Lighting | Early | Fixture | 311 | 0.2% | 0.00 | 13 | \$835 | 38% | 0.0 |
| DLC | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Retail | High Bay Lighting | Early | Fixture | 669 | 54% | 0.10 | 13 | \$835 | 38% | 0.3 |
| DLC | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Retail | High Bay Lighting | New | Fixture | 509 | 54% | 0.07 | 13 | \$382 | 38% | 0.5 |
| DLC | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Retail | High Bay Lighting | ROB | Fixture | 669 | 54% | 0.10 | 13 | \$382 | 38% | 0.7 |
| DLC | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Retail | High Bay Lighting | Early | Fixture | 1,518 | 18% | 0.08 | 13 | \$487 | 25% | 0.4 |
| DLC | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Retail | High Bay Lighting | Early | Fixture | 1,587 | 22% | 0.09 | 13 | \$487 | 28% | 0.5 |
| DLC | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | Early | Fixture | 3,510 | 65% | 0.6 | 13 | \$487 | 36% | 3.6 |
| DLC | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Retail | High Bay Lighting | New | Fixture | 1,154 | 18% | 0.06 | 13 | \$16 | 25% | 9.9 |
| DLC | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | New | Fixture | 2,667 | 65% | 0.5 | 13 | \$18 | 36% | 71.5 |
| DLC | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Retail | High Bay Lighting | ROB | Fixture | 1,518 | 18% | 0.08 | 13 | \$16 | 25% | 13.0 |
| DLC | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | ROB | Fixture | 3,510 | 65% | 0.6 | 13 | \$18 | 36% | 94.1 |
| DLC | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Retail | High Bay Lighting | Early | Fixture | 1,518 | 1.5% | 0.01 | 13 | \$557 | 19% | 0.0 |
| DLC | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Retail | High Bay Lighting | Early | Fixture | 1,563 | 4.3% | 0.02 | 13 | \$557 | 19% | 0.1 |
| DLC | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | Early | Fixture | 3,510 | 57% | 0.5 | 13 | \$557 | 19% | 2.8 |
| DLC | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Retail | High Bay Lighting | New | Fixture | 1,154 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.2 |
| DLC | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | New | Fixture | 2,667 | 57% | 0.4 | 13 | \$88 | 19% | 13.2 |
| DLC | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Retail | High Bay Lighting | ROB | Fixture | 1,518 | 1.5% | 0.01 | 13 | \$86 | 19% | 0.2 |
| DLC | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | ROB | Fixture | 3,510 | 57% | 0.5 | 13 | \$88 | 19% | 17.4 |
| DLC | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Retail | High Bay Lighting | Early | Fixture | 645 | 29% | 0.04 | 13 | \$492 | 71% | 0.3 |
| DLC | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Retail | High Bay Lighting | Early | Fixture | 539 | 15% | 0.02 | 13 | \$492 | 95% | 0.1 |
| DLC | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Retail | High Bay Lighting | Early | Fixture | 801 | 43% | 0.07 | 13 | \$492 | 95% | 0.5 |
| DLC | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Retail | High Bay Lighting | Early | Fixture | 742 | 38% | 0.05 | 13 | \$492 | 95% | 0.4 |
| DLC | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Retail | High Bay Lighting | New | Fixture | 410 | 15% | 0.01 | 13 | \$25 | 95% | 1.7 |
| DLC | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Retail | High Bay Lighting | New | Fixture | 609 | 43% | 0.05 | 13 | \$51 | 95% | 3.5 |
| DLC | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Retail | High Bay Lighting | ROB | Fixture | 539 | 15% | 0.02 | 13 | \$25 | 95% | 2.3 |
| DLC | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Retail | High Bay Lighting | ROB | Fixture | 801 | 43% | 0.07 | 13 | \$51 | 95% | 4.6 |
| DLC | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Retail | High Bay Lighting | Early | lamp | 94 | 16% | 0.00 | 11 | \$7.7 | 99% | 1.2 |
| DLC | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Retail | High Bay Lighting | New | lamp | 56 | 13% | 0.00 | 11 | \$1.6 | 91% | 2.8 |
| DLC | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Retail | High Bay Lighting | ROB | lamp | 91 | 13% | 0.00 | 11 | \$1.6 | 91% | 4.5 |
| DLC | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Retail | High Bay Lighting | Early | Fixture | 3,591 | 23% | 0.2 | 13 | \$613 | 5% | 1.0 |
| DLC | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Retail | High Bay Lighting | Early | Fixture | 2,821 | 1.6% | 0.01 | 13 | \$613 | 28% | 0.1 |
| DLC | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | Early | Fixture | 7,019 | 60% | 1.1 | 13 | \$613 | 18% | 5.3 |
| DLC | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Retail | High Bay Lighting | New | Fixture | 2,729 | 23% | 0.2 | 13 | \$96 | 5% | 4.9 |
| DLC | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Retail | High Bay Lighting | ROB | Fixture | 3,591 | 23% | 0.2 | 13 | \$96 | 5% | 6.5 |
| DLC | 85W Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Retail | High Bay Lighting | Early | Fixture | 3,591 | 92% | 0.9 | 13 | \$1,916 | 95% | 1.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|--|---------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | 85W Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | Early | Fixture | 7,019 | 96% | 1.8 | 13 | \$1,916 | 95% | 2.7 |
| DLC | 85W Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Retail | High Bay Lighting | New | Fixture | 2,729 | 92% | 0.7 | 13 | \$1,468 | 95% | 1.3 |
| DLC | 85W Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | New | Fixture | 5,335 | 96% | 1.4 | 13 | \$1,149 | 95% | 3.4 |
| DLC | 85W Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Retail | High Bay Lighting | ROB | Fixture | 3,591 | 92% | 0.9 | 13 | \$1,468 | 95% | 1.7 |
| DLC | 85W Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | ROB | Fixture | 7,019 | 96% | 1.8 | 13 | \$1,149 | 95% | 4.5 |
| DLC | Auto Off Time Switch | Lighting w/ No Controls | Retail | High Bay Lighting | Existing | building | 4,826 | 24% | 0.2 | 8 | \$296 | 13% | 1.6 |
| DLC | Auto Off Time Switch | Lighting w/ No Controls | Retail | High Bay Lighting | New | building | 4,826 | 6.9% | 0.07 | 8 | \$296 | 0% | 0.5 |
| DLC | Central Lighting Control System | Lighting w/ No Controls | Retail | High Bay Lighting | Existing | building | 4,826 | 38% | 0.4 | 8 | \$296 | 13% | 2.6 |
| DLC | Central Lighting Control System | Lighting w/ No Controls | Retail | High Bay Lighting | New | building | 4,826 | 14% | 0.1 | 8 | \$296 | 13% | 1.0 |
| DLC | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Retail | High Bay Lighting | New | building | 4,826 | 10% | 0.1 | 15 | \$29,254 | 32% | 0.0 |
| DLC | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Retail | High Bay Lighting | New | building | 4,826 | 15% | 0.2 | 15 | \$73,134 | 32% | 0.0 |
| DLC | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Retail | High Bay Lighting | New | building | 4,826 | 30% | 0.3 | 15 | \$104,825 | 32% | 0.0 |
| DLC | Indoor Daylight Sensors | Lighting w/ No Controls | Retail | High Bay Lighting | Existing | building | 4,826 | 28% | 0.3 | 8 | \$1,459 | 13% | 0.4 |
| DLC | Indoor Daylight Sensors | Lighting w/ No Controls | Retail | High Bay Lighting | New | building | 4,826 | 4.0% | 0.04 | 8 | \$1,459 | 0% | 0.1 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 365 W High Pressure Sodium Fixture | Retail | High Bay Lighting | Early | Fixture | 1,192 | 67% | 0.2 | 13 | \$960 | 95% | 0.6 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 1075 W Mercury Vapor Fixture | Retail | High Bay Lighting | Early | Fixture | 3,510 | 89% | 0.8 | 13 | \$960 | 95% | 2.5 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 295 W Metal Halide Fixture | Retail | High Bay Lighting | Early | Fixture | 963 | 59% | 0.2 | 13 | \$960 | 95% | 0.4 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 365 W High Pressure Sodium Fixture | Retail | High Bay Lighting | New | Fixture | 906 | 67% | 0.2 | 13 | \$480 | 95% | 1.0 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 1075 W Mercury Vapor Fixture | Retail | High Bay Lighting | New | Fixture | 2,667 | 89% | 0.6 | 13 | \$491 | 95% | 3.7 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 295 W Metal Halide Fixture | Retail | High Bay Lighting | New | Fixture | 732 | 59% | 0.1 | 13 | \$406 | 95% | 0.8 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 365 W High Pressure Sodium Fixture | Retail | High Bay Lighting | ROB | Fixture | 1,192 | 67% | 0.2 | 13 | \$480 | 95% | 1.3 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 1075 W Mercury Vapor Fixture | Retail | High Bay Lighting | ROB | Fixture | 3,510 | 89% | 0.8 | 13 | \$491 | 95% | 4.8 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 295 W Metal Halide Fixture | Retail | High Bay Lighting | ROB | Fixture | 963 | 59% | 0.2 | 13 | \$406 | 95% | 1.1 |
| DLC | Occupancy Sensor | Lighting w/ No Controls | Retail | High Bay Lighting | Existing | building | 4,826 | 24% | 0.2 | 8 | \$447 | 12% | 1.1 |
| DLC | Occupancy Sensor | Lighting w/ No Controls | Retail | High Bay Lighting | New | building | 4,826 | 6.9% | 0.07 | 8 | \$447 | 0% | 0.3 |
| DLC | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Retail | High Bay Lighting | Existing | building | 4,826 | 28% | 0.3 | 8 | \$1,459 | 12% | 0.4 |
| DLC | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Retail | High Bay Lighting | New | building | 4,826 | 4.0% | 0.04 | 8 | \$1,459 | 0% | 0.1 |
| DLC | Time Clock Control | Lighting w/ No Controls | Retail | High Bay Lighting | Existing | building | 4,826 | 28% | 0.3 | 8 | \$296 | 13% | 1.9 |
| DLC | Time Clock Control | Lighting w/ No Controls | Retail | High Bay Lighting | New | building | 4,826 | 4.0% | 0.04 | 8 | \$296 | 0% | 0.3 |
| DLC | Auto Off Time Switch | Lighting w/ No Controls | Retail | Lin. Fluor. Lighting | Existing | building | 9,436 | 24% | 0.2 | 8 | \$296 | 13% | 2.7 |
| DLC | Auto Off Time Switch | Lighting w/ No Controls | Retail | Lin. Fluor. Lighting | New | building | 9,436 | 7.0% | 0.07 | 8 | \$296 | 0% | 0.8 |
| DLC | Central Lighting Control System | Lighting w/ No Controls | Retail | Lin. Fluor. Lighting | Existing | building | 9,436 | 38% | 0.4 | 8 | \$296 | 12% | 4.3 |
| DLC | Central Lighting Control System | Lighting w/ No Controls | Retail | Lin. Fluor. Lighting | New | building | 9,436 | 14% | 0.1 | 8 | \$296 | 12% | 1.6 |
| DLC | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Retail | Lin. Fluor. Lighting | New | building | 9,436 | 10% | 0.1 | 15 | \$29,254 | 32% | 0.0 |
| DLC | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Retail | Lin. Fluor. Lighting | New | building | 9,436 | 15% | 0.2 | 15 | \$73,134 | 32% | 0.0 |
| DLC | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Retail | Lin. Fluor. Lighting | New | building | 9,436 | 30% | 0.3 | 15 | \$104,825 | 32% | 0.0 |
| DLC | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Retail | Lin. Fluor. Lighting | Early | Lamp | 190 | 38% | 0.02 | 11 | \$7.3 | 94% | 6.0 |
| DLC | Indoor Daylight Sensors | Lighting w/ No Controls | Retail | Lin. Fluor. Lighting | Existing | building | 9,436 | 28% | 0.3 | 8 | \$1,459 | 13% | 0.6 |
| DLC | Indoor Daylight Sensors | Lighting w/ No Controls | Retail | Lin. Fluor. Lighting | New | building | 9,436 | 4.1% | 0.04 | 8 | \$1,459 | 0% | 0.1 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 28W T8 Lamp, Normal Ballast Factor | Retail | Lin. Fluor. Lighting | Early | Lamp | 72 | 19% | 0.00 | 15 | \$35 | 94% | 0.3 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 40W T12 Lamp, Magnetic Ballast | Retail | Lin. Fluor. Lighting | Early | Lamp | 158 | 63% | 0.03 | 15 | \$35 | 94% | 2.5 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 28W T5 Lamp, Normal Ballast Factor | Retail | Lin. Fluor. Lighting | Early | Lamp | 89 | 34% | 0.01 | 15 | \$35 | 94% | 0.8 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 32W T8 Lamp, Normal Ballast Factor | Retail | Lin. Fluor. Lighting | Early | Lamp | 86 | 32% | 0.01 | 15 | \$35 | 94% | 0.7 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 28W T8 Lamp, Normal Ballast Factor | Retail | Lin. Fluor. Lighting | New | Lamp | 55 | 19% | 0.00 | 15 | \$28 | 94% | 0.3 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 32W T8 Lamp, Normal Ballast Factor | Retail | Lin. Fluor. Lighting | New | Lamp | 65 | 32% | 0.01 | 15 | \$29 | 94% | 0.6 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 28W T5 Lamp, Normal Ballast Factor | Retail | Lin. Fluor. Lighting | New | Lamp | 67 | 34% | 0.01 | 15 | \$22 | 94% | 0.9 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 32W T8 Lamp, Normal Ballast Factor | Retail | Lin. Fluor. Lighting | New | Lamp | 65 | 32% | 0.01 | 15 | \$29 | 94% | 0.6 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 28W T8 Lamp, Normal Ballast Factor | Retail | Lin. Fluor. Lighting | ROB | Lamp | 72 | 19% | 0.00 | 15 | \$28 | 94% | 0.4 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 32W T8 Lamp, Normal Ballast Factor | Retail | Lin. Fluor. Lighting | ROB | Lamp | 86 | 32% | 0.01 | 15 | \$29 | 94% | 0.8 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 28W T5 Lamp, Normal Ballast Factor | Retail | Lin. Fluor. Lighting | ROB | Lamp | 89 | 34% | 0.01 | 15 | \$22 | 94% | 1.2 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 32W T8 Lamp, Normal Ballast Factor | Retail | Lin. Fluor. Lighting | ROB | Lamp | 86 | 32% | 0.01 | 15 | \$29 | 94% | 0.8 |
| DLC | Occupancy Sensor | Lighting w/ No Controls | Retail | Lin. Fluor. Lighting | Existing | building | 9,436 | 24% | 0.2 | 8 | \$447 | 13% | 1.8 |
| DLC | Occupancy Sensor | Lighting w/ No Controls | Retail | Lin. Fluor. Lighting | New | building | 9,436 | 6.9% | 0.07 | 8 | \$447 | 0% | 0.5 |
| DLC | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Retail | Lin. Fluor. Lighting | Existing | building | 9,436 | 28% | 0.3 | 8 | \$1,459 | 12% | 0.6 |
| DLC | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Retail | Lin. Fluor. Lighting | New | building | 9,436 | 4.1% | 0.04 | 8 | \$1,459 | 0% | 0.1 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 40W T12 w/ Magnetic Ballast | Retail | Lin. Fluor. Lighting | Early | Lamp | 190 | 54% | 0.02 | 11 | \$9.1 | 94% | 6.8 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Retail | Lin. Fluor. Lighting | Early | Lamp | 121 | 28% | 0.01 | 11 | \$9.1 | 24% | 2.3 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Retail | Lin. Fluor. Lighting | Early | Lamp | 118 | 26% | 0.01 | 11 | \$9.1 | 94% | 2.0 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Retail | Lin. Fluor. Lighting | New | Lamp | 89 | 26% | 0.00 | 11 | \$2.5 | 94% | 5.6 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Retail | Lin. Fluor. Lighting | New | Lamp | 89 | 26% | 0.00 | 11 | \$2.5 | 94% | 5.6 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Retail | Lin. Fluor. Lighting | New | Lamp | 92 | 28% | 0.01 | 11 | \$2.5 | 24% | 6.2 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Retail | Lin. Fluor. Lighting | New | Lamp | 89 | 26% | 0.00 | 11 | \$2.5 | 94% | 5.6 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Retail | Lin. Fluor. Lighting | ROB | Lamp | 118 | 26% | 0.01 | 11 | \$2.5 | 94% | 7.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|--|---------|---------------------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | VFD on Chilled Water Pump | Motor w/out VFD Drive | Retail | Motors | ROB | motor | 27,840 | 55% | 2.7 | 15 | \$2,843 | 86% | 4.2 |
| DLC | VFD on Condenser Water Pump | Motor w/out VFD Drive | Retail | Motors | Early | motor | 29,290 | 32% | 3.2 | 15 | \$2,903 | 86% | 3.0 |
| DLC | VFD on Condenser Water Pump | Motor w/out VFD Drive | Retail | Motors | New | motor | 28,742 | 33% | 3.1 | 15 | \$2,843 | 86% | 3.1 |
| DLC | VFD on Condenser Water Pump | Motor w/out VFD Drive | Retail | Motors | ROB | motor | 28,742 | 33% | 3.1 | 15 | \$2,843 | 86% | 3.1 |
| DLC | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Retail | Motors | Early | motor | 23,552 | 56% | 0.00 | 15 | \$2,903 | 86% | 2.7 |
| DLC | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Retail | Motors | New | motor | 23,111 | 57% | 0.00 | 15 | \$2,843 | 86% | 2.8 |
| DLC | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Retail | Motors | ROB | motor | 23,111 | 57% | 0.00 | 15 | \$2,843 | 86% | 2.8 |
| DLC | VFD on HVAC Fan | Motor w/out VFD | Retail | Motors | Early | motor | 29,667 | 70% | 3.4 | 15 | \$2,903 | 86% | 5.5 |
| DLC | VFD on HVAC Fan | Motor w/out VFD | Retail | Motors | New | motor | 29,112 | 72% | 3.3 | 15 | \$2,843 | 86% | 5.6 |
| DLC | VFD on HVAC Fan | Motor w/out VFD | Retail | Motors | ROB | motor | 29,112 | 71% | 3.3 | 15 | \$2,843 | 86% | 5.6 |
| DLC | Elevators | Std. Eff Elevator | Retail | Other | ROB | measure | 89,016 | 0.6% | 0.07 | 15 | \$126 | 63% | 3.1 |
| DLC | Variable Speed Drives on Process Equipment | Constant speed control | Retail | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 11.5 |
| DLC | Variable Speed Drives on Process Equipment | Constant speed control | Retail | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 11.5 |
| DLC | 9W Exit Sign Retrofit: CFL replacing Incandescent | One 23W Single Sided Incandescent Exit Sign | Retail | Other Int. Lighting | Early | exit sign | 130 | 42% | 0.01 | 15 | \$48 | 22% | 0.8 |
| DLC | Auto Off Time Switch | Lighting w/ No Controls | Retail | Other Int. Lighting | Existing | building | 11,282 | 24% | 0.2 | 8 | \$296 | 13% | 3.2 |
| DLC | Auto Off Time Switch | Lighting w/ No Controls | Retail | Other Int. Lighting | New | building | 11,282 | 7.0% | 0.07 | 8 | \$296 | 0% | 0.9 |
| DLC | Central Lighting Control System | Lighting w/ No Controls | Retail | Other Int. Lighting | Existing | building | 11,282 | 38% | 0.4 | 8 | \$296 | 13% | 5.0 |
| DLC | Central Lighting Control System | Lighting w/ No Controls | Retail | Other Int. Lighting | New | building | 11,282 | 14% | 0.1 | 8 | \$296 | 13% | 1.9 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 40W Incandescent Bulb | Retail | Other Int. Lighting | Early | lamp | 167 | 87% | 0.04 | 9 | \$30 | 14% | 2.6 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Retail | Other Int. Lighting | Early | lamp | 119 | 81% | 0.03 | 9 | \$30 | 11% | 1.7 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Retail | Other Int. Lighting | New | lamp | 91 | 81% | 0.02 | 9 | \$21 | 14% | 1.8 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Retail | Other Int. Lighting | New | lamp | 91 | 81% | 0.02 | 9 | \$23 | 14% | 1.7 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Retail | Other Int. Lighting | New | lamp | 91 | 81% | 0.02 | 9 | \$22 | 11% | 1.8 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Retail | Other Int. Lighting | ROB | lamp | 119 | 81% | 0.03 | 9 | \$21 | 14% | 2.4 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Retail | Other Int. Lighting | ROB | lamp | 119 | 81% | 0.03 | 9 | \$23 | 14% | 2.3 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Retail | Other Int. Lighting | ROB | lamp | 119 | 81% | 0.03 | 9 | \$22 | 11% | 2.3 |
| DLC | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Retail | Other Int. Lighting | Early | lamp | 167 | 75% | 0.03 | 3 | \$73 | 24% | 0.3 |
| DLC | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Retail | Other Int. Lighting | New | fixture | 181 | 65% | 0.03 | 13 | \$29 | 28% | 3.2 |
| DLC | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Retail | Other Int. Lighting | New | lamp | 91 | 65% | 0.02 | 3 | \$29 | 28% | 0.4 |
| DLC | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Retail | Other Int. Lighting | ROB | fixture | 239 | 65% | 0.04 | 13 | \$29 | 24% | 4.2 |
| DLC | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Retail | Other Int. Lighting | ROB | lamp | 119 | 65% | 0.02 | 3 | \$29 | 24% | 0.5 |
| DLC | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Retail | Other Int. Lighting | Early | lamp | 167 | 75% | 0.03 | 3 | \$3.2 | 24% | 7.0 |
| DLC | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Retail | Other Int. Lighting | New | lamp | 91 | 65% | 0.02 | 3 | \$1.8 | 24% | 6.0 |
| DLC | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Retail | Other Int. Lighting | ROB | lamp | 119 | 65% | 0.02 | 3 | \$1.8 | 24% | 7.9 |
| DLC | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Retail | Other Int. Lighting | ROB | lamp | 119 | 65% | 0.02 | 3 | \$1.8 | 24% | 7.9 |
| DLC | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Retail | Other Int. Lighting | New | building | 11,282 | 10% | 0.1 | 15 | \$29,254 | 32% | 0.0 |
| DLC | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Retail | Other Int. Lighting | New | building | 11,282 | 15% | 0.2 | 15 | \$73,134 | 32% | 0.0 |
| DLC | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Retail | Other Int. Lighting | New | building | 11,282 | 30% | 0.3 | 15 | \$104,825 | 32% | 0.0 |
| DLC | Indoor Daylight Sensors | Lighting w/ No Controls | Retail | Other Int. Lighting | Existing | building | 11,282 | 28% | 0.3 | 8 | \$1,459 | 13% | 0.8 |
| DLC | Indoor Daylight Sensors | Lighting w/ No Controls | Retail | Other Int. Lighting | New | building | 11,282 | 4.1% | 0.04 | 8 | \$1,459 | 0% | 0.1 |
| DLC | LED Exit Signs Single-sided (5W) | Existing Single-Sided Exit Signs (Average: 16 W) | Retail | Other Int. Lighting | Early | sign | 153 | 87% | 0.02 | 15 | \$48 | 16% | 2.0 |
| DLC | LED Exit Signs Single-sided (5W) | One 9W Single-Sided CFL Exit Sign | Retail | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 2.2 |
| DLC | LED Exit Signs Single-sided (5W) | One 9W Single-Sided CFL Exit Sign | Retail | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 2.2 |
| DLC | LED Task Lighting/Screw-In (10W) | 1 15W CFL bulb | Retail | Other Int. Lighting | Early | lamp | 34 | 33% | 0.00 | 10 | \$9.6 | 24% | 0.7 |
| DLC | LED Task Lighting/Screw-In (10W) | 1 60W Incandescent Bulb | Retail | Other Int. Lighting | Early | lamp | 136 | 83% | 0.03 | 10 | \$9.6 | 24% | 7.1 |
| DLC | LED Task Lighting/Screw-In (10W) | 1 43W EISA Compliant bulb | Retail | Other Int. Lighting | New | lamp | 74 | 77% | 0.02 | 10 | \$7.9 | 24% | 4.3 |
| DLC | LED Task Lighting/Screw-In (10W) | 1 43W EISA Compliant bulb | Retail | Other Int. Lighting | New | lamp | 74 | 77% | 0.02 | 10 | \$7.9 | 24% | 4.3 |
| DLC | LED Task Lighting/Screw-In (10W) | 1 43W EISA Compliant bulb | Retail | Other Int. Lighting | ROB | lamp | 98 | 77% | 0.02 | 10 | \$7.9 | 24% | 5.7 |
| DLC | LED Task Lighting/Screw-In (10W) | 1 43W EISA Compliant bulb | Retail | Other Int. Lighting | ROB | lamp | 98 | 77% | 0.02 | 10 | \$7.9 | 24% | 5.7 |
| DLC | Occupancy Sensor | Lighting w/ No Controls | Retail | Other Int. Lighting | Existing | building | 11,282 | 24% | 0.2 | 8 | \$447 | 12% | 2.1 |
| DLC | Occupancy Sensor | Lighting w/ No Controls | Retail | Other Int. Lighting | New | building | 11,282 | 7.0% | 0.07 | 8 | \$447 | 0% | 0.6 |
| DLC | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Retail | Other Int. Lighting | Existing | building | 11,282 | 28% | 0.3 | 8 | \$1,459 | 12% | 0.8 |
| DLC | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Retail | Other Int. Lighting | New | building | 11,282 | 4.1% | 0.04 | 8 | \$1,459 | 0% | 0.1 |
| DLC | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Retail | Other Int. Lighting | Early | exit sign | 130 | 100% | 0.02 | 15 | \$173 | 26% | 0.6 |
| DLC | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Retail | Other Int. Lighting | New | exit sign | 75 | 100% | 0.01 | 15 | \$148 | 31% | 0.4 |
| DLC | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Retail | Other Int. Lighting | ROB | exit sign | 75 | 100% | 0.01 | 15 | \$148 | 26% | 0.4 |
| DLC | Time Clock Control | Lighting w/ No Controls | Retail | Other Int. Lighting | Existing | building | 11,282 | 28% | 0.3 | 8 | \$296 | 13% | 3.7 |
| DLC | Time Clock Control | Lighting w/ No Controls | Retail | Other Int. Lighting | New | building | 11,282 | 4.1% | 0.04 | 8 | \$296 | 0% | 0.5 |
| DLC | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Retail | Plug Load | Existing | building | 924 | 46% | 0.5 | 5 | \$189 | 4% | 1.3 |
| DLC | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Retail | Plug Load | New | building | 924 | 46% | 0.5 | 5 | \$189 | 4% | 1.3 |
| DLC | Data Center - Server/Storage Consolidation | No Consolidation | Retail | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| DLC | Data Center - Server/Storage Consolidation | No Consolidation | Retail | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| DLC | Data Center - Server/Storage Virtualization | No Virtualization | Retail | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| DLC | Data Center - Server/Storage Virtualization | No Virtualization | Retail | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| DLC | Energy Star - Scanners | Std Scanner | Retail | Plug Load | New | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| DLC | Energy Star - Scanners | Std Scanner | Retail | Plug Load | ROB | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| DLC | Energy Star Battery Charging System (for small cordless products) | Std. Battery Charging System | Retail | Plug Load | ROB | measure | 593 | 2.3% | 0.1 | 5 | \$65 | 4% | 0.7 |
| DLC | Energy Star Dishwasher | Existing Dishwasher units | Retail | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,580 | 1% | 1.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|---|---------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Energy Star Dishwasher | Standard Dishwasher unit | Retail | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 1% | 3.5 |
| DLC | Energy Star Dishwasher | Standard Dishwasher unit | Retail | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 1% | 3.5 |
| DLC | Energy Star External Power Adapter | Std. Power Adapter | Retail | Plug Load | New | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| DLC | Energy Star External Power Adapter | Std. Power Adapter | Retail | Plug Load | ROB | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| DLC | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Retail | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 17% | 0.2 |
| DLC | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Retail | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.1 |
| DLC | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Retail | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.1 |
| DLC | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Retail | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 9% | 0.7 |
| DLC | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Retail | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.5 |
| DLC | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Retail | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.5 |
| DLC | ENERGY STAR® Copiers | 10% Less Efficient Copier | Retail | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 18% | 0.0 |
| DLC | ENERGY STAR® Copiers | One Conventional Copier | Retail | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| DLC | ENERGY STAR® Copiers | One Conventional Copier | Retail | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| DLC | ENERGY STAR® desktop | Standard computer | Retail | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 69% | 0.1 |
| DLC | ENERGY STAR® desktop | Standard computer | Retail | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.1 |
| DLC | ENERGY STAR® desktop | Standard computer | Retail | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.1 |
| DLC | ENERGY STAR® Fax | 10% Less Efficient Fax | Retail | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 15% | 0.0 |
| DLC | ENERGY STAR® Fax | One Conventional Fax | Retail | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.1 |
| DLC | ENERGY STAR® Fax | One Conventional Fax | Retail | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.1 |
| DLC | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Retail | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 70% | 0.0 |
| DLC | ENERGY STAR® Monitors | One Conventional Monitor | Retail | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| DLC | ENERGY STAR® Monitors | One Conventional Monitor | Retail | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| DLC | ENERGY STAR® Printers | 10% Less Efficient Printer | Retail | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 44% | 0.0 |
| DLC | ENERGY STAR® Printers | One Conventional Printer | Retail | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| DLC | ENERGY STAR® Printers | One Conventional Printer | Retail | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| DLC | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Retail | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 43% | 0.1 |
| DLC | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Retail | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.8 |
| DLC | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Retail | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.8 |
| DLC | ENERGY STAR® Televisions | 10% Less Efficient Television | Retail | Plug Load | Early | Unit | 228 | 38% | 0.02 | 6 | \$672 | 40% | 0.0 |
| DLC | ENERGY STAR® Televisions | One Conventional Television | Retail | Plug Load | New | Unit | 207 | 32% | 0.02 | 6 | \$206 | 40% | 0.1 |
| DLC | ENERGY STAR® Televisions | One Conventional Television | Retail | Plug Load | ROB | Unit | 207 | 32% | 0.02 | 6 | \$206 | 40% | 0.1 |
| DLC | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Retail | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 24% | 0.3 |
| DLC | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Retail | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.7 |
| DLC | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Retail | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.7 |
| DLC | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Retail | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.3 |
| DLC | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Retail | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.3 |
| DLC | Network PC Power Management | No PC Power Management | Retail | Plug Load | Existing | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 6.4 |
| DLC | Network PC Power Management | No PC Power Management | Retail | Plug Load | New | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 6.4 |
| DLC | Smart Strip Plug Outlets | Standard plug strip/outlet | Retail | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.2 |
| DLC | Smart Strip Plug Outlets | Standard plug strip/outlet | Retail | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.2 |
| DLC | Smart Strip Plug Outlets | Standard plug strip/outlet | Retail | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| DLC | Smart Strip Plug Outlets | Standard plug strip/outlet | Retail | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| DLC | Smart Strip Plug Outlets | Standard plug strip/outlet | Retail | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| DLC | Smart Strip Plug Outlets | Standard plug strip/outlet | Retail | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| DLC | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Retail | Plug Load | Existing | building | 924 | 46% | 0.5 | 5 | \$180 | 3% | 1.4 |
| DLC | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Retail | Plug Load | New | building | 924 | 46% | 0.5 | 5 | \$180 | 3% | 1.4 |
| DLC | Air curtain technology | Strip plastic curtain | Retail | Refrigeration | New | building | 6,300 | 6.8% | 0.07 | 8 | \$747 | 35% | 0.2 |
| DLC | Air curtain technology | Strip plastic curtain | Retail | Refrigeration | New | building | 3,665 | 6.8% | 0.07 | 8 | \$752 | 35% | 0.2 |
| DLC | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Retail | Refrigeration | Existing | building | 1,031 | 7.7% | 0.08 | 12 | \$70 | 11% | 1.4 |
| DLC | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Retail | Refrigeration | New | building | 1,031 | 7.7% | 0.08 | 12 | \$70 | 11% | 1.4 |
| DLC | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Retail | Refrigeration | Existing | building | 1,031 | 9.7% | 0.10 | 12 | \$70 | 11% | 1.8 |
| DLC | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Retail | Refrigeration | New | building | 1,031 | 9.7% | 0.10 | 12 | \$70 | 11% | 1.8 |
| DLC | Auto Closer on Refrigerator Door | Door w/out Autocloser | Retail | Refrigeration | Existing | building | 3,665 | 31% | 0.3 | 8 | \$963 | 40% | 0.5 |
| DLC | Auto Closer on Refrigerator Door | Door w/out Autocloser | Retail | Refrigeration | Existing | building | 6,300 | 13% | 0.1 | 8 | \$728 | 40% | 0.4 |
| DLC | Auto Closer on Refrigerator Door | Door w/out Autocloser | Retail | Refrigeration | New | building | 3,665 | 31% | 0.3 | 8 | \$963 | 40% | 0.5 |
| DLC | Auto Closer on Refrigerator Door | Door w/out Autocloser | Retail | Refrigeration | New | building | 6,300 | 13% | 0.1 | 8 | \$728 | 40% | 0.4 |
| DLC | Demand Hot Gas Defrost | Base Refrigeration System | Retail | Refrigeration | Existing | measure | 1,031 | 3.0% | 0.03 | 10 | \$1,340 | 0% | 0.0 |
| DLC | Demand Hot Gas Defrost | Base Refrigeration System | Retail | Refrigeration | New | measure | 1,031 | 3.0% | 0.03 | 10 | \$1,340 | 0% | 0.0 |
| DLC | Door Gasket- Freezer | Door w/out Gasket | Retail | Refrigeration | Existing | building | 3,665 | 17% | 0.2 | 4 | \$99 | 29% | 1.4 |
| DLC | Door Gasket- Freezer | Door w/out Gasket | Retail | Refrigeration | New | building | 3,665 | 11% | 0.1 | 4 | \$99 | 29% | 1.0 |
| DLC | Door Gasket- Refrigerator | Door w/out Gasket | Retail | Refrigeration | Existing | building | 6,300 | 4.1% | 0.04 | 4 | \$101 | 45% | 0.5 |
| DLC | Door Gasket- Refrigerator | Door w/out Gasket | Retail | Refrigeration | New | building | 6,300 | 4.1% | 0.04 | 4 | \$101 | 45% | 0.5 |
| DLC | Economizer for Walk-in Coolers | No Economizer | Retail | Refrigeration | Early | measure | 11,267 | 6.6% | 0.1 | 10 | \$131 | 72% | 2.8 |
| DLC | Economizer for Walk-in Coolers | No Economizer | Retail | Refrigeration | Early | measure | 11,267 | 6.6% | 0.1 | 10 | \$131 | 72% | 2.8 |
| DLC | Economizer for Walk-in Coolers | No Economizer | Retail | Refrigeration | Early | measure | 11,267 | 6.6% | 0.1 | 10 | \$131 | 72% | 2.8 |
| DLC | Economizer for Walk-in Coolers | No Economizer | Retail | Refrigeration | New | measure | 11,267 | 6.6% | 0.1 | 10 | \$15 | 72% | 23.7 |
| DLC | Economizer for Walk-in Coolers | No Economizer | Retail | Refrigeration | New | measure | 11,267 | 6.6% | 0.1 | 10 | \$15 | 72% | 23.7 |
| DLC | Economizer for Walk-in Coolers | No Economizer | Retail | Refrigeration | New | measure | 11,267 | 6.6% | 0.1 | 10 | \$15 | 72% | 23.7 |
| DLC | Economizer for Walk-in Coolers | No Economizer | Retail | Refrigeration | ROB | measure | 11,267 | 6.6% | 0.1 | 10 | \$15 | 72% | 23.7 |
| DLC | Economizer for Walk-in Coolers | No Economizer | Retail | Refrigeration | ROB | measure | 11,267 | 6.6% | 0.1 | 10 | \$15 | 72% | 23.7 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|--|---------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Economizer for Walk-in Coolers | No Economizer | Retail | Refrigeration | ROB | measure | 11,267 | 6.6% | 0.1 | 10 | \$15 | 72% | 23.7 |
| DLC | eCube | Refrigeration unit w/out eCube | Retail | Refrigeration | Existing | building | 6,300 | 15% | 0.2 | 15 | \$413 | 57% | 1.7 |
| DLC | eCube | Refrigeration unit w/out eCube | Retail | Refrigeration | New | building | 6,300 | 15% | 0.2 | 15 | \$413 | 57% | 1.7 |
| DLC | Efficient compressor motor | Base Refrigeration System - Grocery | Retail | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.3 |
| DLC | Efficient compressor motor | Base Refrigeration System - Grocery | Retail | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.3 |
| DLC | Efficient compressor motor | Base Refrigeration System - Grocery | Retail | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.3 |
| DLC | Efficient compressor motor | Base Refrigeration System - Grocery | Retail | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.3 |
| DLC | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Retail | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.6 |
| DLC | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Retail | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| DLC | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Retail | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| DLC | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Retail | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.3 |
| DLC | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Retail | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.8 |
| DLC | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Retail | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.8 |
| DLC | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Retail | Refrigeration | Existing | building | 6,300 | 1.5% | 0.02 | 10 | \$369 | 77% | 0.1 |
| DLC | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Retail | Refrigeration | New | building | 6,300 | 1.5% | 0.02 | 10 | \$369 | 77% | 0.1 |
| DLC | Floating head pressure controller | System w/out FHPC | Retail | Refrigeration | Existing | building | 3,665 | 6.2% | 0.02 | 15 | \$8,682 | 41% | 0.0 |
| DLC | Floating head pressure controller | System w/out FHPC | Retail | Refrigeration | Existing | building | 1,031 | 9.2% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| DLC | Floating head pressure controller | System w/out FHPC | Retail | Refrigeration | Existing | building | 6,300 | 1.2% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| DLC | Floating head pressure controller | System w/out FHPC | Retail | Refrigeration | New | building | 3,665 | 6.2% | 0.02 | 15 | \$8,682 | 41% | 0.0 |
| DLC | Floating head pressure controller | System w/out FHPC | Retail | Refrigeration | New | building | 1,031 | 9.2% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| DLC | Floating head pressure controller | System w/out FHPC | Retail | Refrigeration | New | building | 6,300 | 1.2% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| DLC | High Efficiency Commercial Freezer | Std. Commercial Freezer | Retail | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 86% | 0.4 |
| DLC | High Efficiency Commercial Freezer | Std. Commercial Freezer | Retail | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 4.4 |
| DLC | High Efficiency Commercial Freezer | Std. Commercial Freezer | Retail | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 4.4 |
| DLC | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Retail | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 2% | 0.1 |
| DLC | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Retail | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$406 | 2% | 1.0 |
| DLC | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Retail | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$406 | 2% | 1.0 |
| DLC | High Efficiency Ice Maker | Existing Standard Efficiency Ice Maker in Pennsylvania | Retail | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 73% | 0.2 |
| DLC | High Efficiency Ice Maker | Standard code minimum Ice Maker | Retail | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| DLC | High Efficiency Ice Maker | Standard code minimum Ice Maker | Retail | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| DLC | High Efficiency Ice Making Head | Standard Ice Making Head | Retail | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 4.1 |
| DLC | High Efficiency Ice Making Head | Standard Ice Making Head | Retail | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 4.1 |
| DLC | High R-Value Glass Doors | Base Refrigeration System - Grocery | Retail | Refrigeration | Existing | building | 1,031 | 0.7% | 0.01 | 10 | \$17 | 0% | 0.5 |
| DLC | High R-Value Glass Doors | Base Refrigeration System - Grocery | Retail | Refrigeration | New | building | 1,031 | 0.7% | 0.01 | 10 | \$17 | 0% | 0.5 |
| DLC | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Retail | Refrigeration | Early | Fixture | 373 | 56% | 0.02 | 8 | \$448 | 47% | 0.2 |
| DLC | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Retail | Refrigeration | New | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 47% | 0.3 |
| DLC | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Retail | Refrigeration | ROB | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 47% | 0.3 |
| DLC | No-heat glass doors | Standard low-temp reach-in | Retail | Refrigeration | Existing | building | 1,031 | 20% | 0.2 | 10 | \$1,549 | 8% | 0.1 |
| DLC | No-heat glass doors | Standard low-temp reach-in | Retail | Refrigeration | New | building | 1,031 | 20% | 0.2 | 10 | \$1,549 | 8% | 0.1 |
| DLC | Quick acting freezer doors | Std. Freezer Doors | Retail | Refrigeration | Existing | building | 3,665 | 13% | 0.1 | 10 | \$907 | 56% | 0.3 |
| DLC | Quick acting freezer doors | Std. Freezer Doors | Retail | Refrigeration | New | building | 3,665 | 13% | 0.1 | 10 | \$907 | 56% | 0.3 |
| DLC | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Retail | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 30% | 0.5 |
| DLC | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Retail | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.8 |
| DLC | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Retail | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.8 |
| DLC | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 30% | 1.8 |
| DLC | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 3.3 |
| DLC | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 3.3 |
| DLC | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 30% | 1.9 |
| DLC | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 4.4 |
| DLC | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 4.4 |
| DLC | Refrigeration Commissioning | Non-commissioned refrigeration system | Retail | Refrigeration | Existing | building | 11,454 | 9.5% | 0.10 | 3 | \$1,199 | 85% | 0.1 |
| DLC | Refrigeration Commissioning | Non-commissioned refrigeration system | Retail | Refrigeration | New | building | 11,454 | 9.5% | 0.10 | 3 | \$1,199 | 85% | 0.1 |
| DLC | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Retail | Refrigeration | Existing | building | 3,665 | 40% | 0.4 | 4 | \$120 | 22% | 2.8 |
| DLC | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Retail | Refrigeration | Existing | building | 6,300 | 5.7% | 0.06 | 4 | \$122 | 22% | 0.6 |
| DLC | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Retail | Refrigeration | New | building | 3,665 | 40% | 0.4 | 4 | \$120 | 22% | 2.8 |
| DLC | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Retail | Refrigeration | New | building | 6,300 | 5.7% | 0.06 | 4 | \$122 | 22% | 0.6 |
| DLC | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Retail | Refrigeration | Existing | building | 3,665 | 5.6% | 0.06 | 11 | \$127 | 79% | 1.0 |
| DLC | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Retail | Refrigeration | New | building | 3,665 | 5.6% | 0.06 | 11 | \$127 | 79% | 1.0 |
| DLC | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Retail | Refrigeration | Existing | building | 6,300 | 4.3% | 0.04 | 11 | \$127 | 79% | 1.2 |
| DLC | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Retail | Refrigeration | New | building | 6,300 | 4.3% | 0.04 | 11 | \$127 | 79% | 1.2 |
| DLC | Vendor Miser | No Vendor Miser | Retail | Refrigeration | Existing | machine | 458 | 12% | 0.1 | 8 | \$46 | 7% | 2.0 |
| DLC | Vertical Night Covers | Display cases w/out night covers-High Temperature | Retail | Refrigeration | Existing | building | 1,031 | 0.6% | 0.01 | 5 | \$56 | 9% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|---|---------|-----------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Vertical Night Covers | Display cases w/out night covers-High Temperature | Retail | Refrigeration | New | building | 1,031 | 0.6% | 0.01 | 5 | \$56 | 9% | 0.1 |
| DLC | VSD Controlled Compressor | Compressor w/out VSD | Retail | Refrigeration | Early | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.2 |
| DLC | VSD Controlled Compressor | Compressor w/out VSD | Retail | Refrigeration | New | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.2 |
| DLC | VSD Controlled Compressor | Compressor w/out VSD | Retail | Refrigeration | ROB | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.2 |
| DLC | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Retail | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$268 | 35% | 1.0 |
| DLC | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Retail | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$268 | 35% | 1.0 |
| DLC | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Retail | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.5 |
| DLC | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Retail | Refrigeration | New | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 3.3 |
| DLC | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Retail | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.5 |
| DLC | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Retail | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 3.3 |
| DLC | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 35% | 2.7 |
| DLC | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 35% | 2.5 |
| DLC | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 5.7 |
| DLC | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 5.4 |
| DLC | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 5.7 |
| DLC | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 5.4 |
| DLC | Adding reflective roof treatment | Std color roof | Retail | Space Heating | Existing | building | 17,920 | 7.1% | 0.07 | 6 | \$14,374 | 82% | 0.0 |
| DLC | Adding reflective roof treatment | Std color roof | Retail | Space Heating | New | building | 17,920 | 7.1% | 0.07 | 6 | \$14,374 | 82% | 0.0 |
| DLC | Adding window shade film | No shade film | Retail | Space Heating | Existing | building | 17,920 | 1.3% | 0.4 | 10 | \$218 | 13% | 1.6 |
| DLC | Adding window shade film | No shade film | Retail | Space Heating | New | building | 17,920 | 1.3% | 0.4 | 10 | \$218 | 13% | 1.6 |
| DLC | Adding window shade screen | No shade screen | Retail | Space Heating | Existing | building | 17,920 | 1.1% | 0.01 | 10 | \$84 | 13% | 1.0 |
| DLC | Adding window shade screen | No shade screen | Retail | Space Heating | New | building | 17,920 | 1.1% | 0.01 | 10 | \$84 | 13% | 1.0 |
| DLC | Automated control system | Manual Controls | Retail | Space Heating | Existing | building | 17,920 | 17% | 0.2 | 15 | \$19,618 | 51% | 0.1 |
| DLC | Automated control system | Manual Controls | Retail | Space Heating | New | building | 17,920 | 17% | 0.2 | 15 | \$19,618 | 94% | 0.1 |
| DLC | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Retail | Space Heating | Existing | building | 17,920 | 4.9% | 0.05 | 15 | \$19,662 | 71% | 0.0 |
| DLC | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Retail | Space Heating | New | building | 17,920 | 1.6% | 0.02 | 15 | \$18,689 | 94% | 0.0 |
| DLC | Duct Insulation, Add R8 | No Insulation | Retail | Space Heating | Existing | building | 17,920 | 1.4% | 0.04 | 15 | \$142 | 20% | 1.3 |
| DLC | Duct Insulation, Add R8 | No Insulation | Retail | Space Heating | New | building | 17,920 | 1.4% | 0.04 | 15 | \$142 | 10% | 1.3 |
| DLC | Efficient Unit Heating System | Existing Unit Heaters in PA | Retail | Space Heating | Early | heater | 21,399 | 23% | 0.04 | 15 | \$3,289 | 83% | 0.9 |
| DLC | Efficient Unit Heating System | Std. Unit Heater | Retail | Space Heating | New | heater | 18,992 | 13% | 0.02 | 15 | \$1,991 | 83% | 0.8 |
| DLC | Efficient Unit Heating System | Std. Unit Heater | Retail | Space Heating | ROB | heater | 18,992 | 13% | 0.02 | 15 | \$1,991 | 83% | 0.8 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Retail | Space Heating | Existing | building | 17,920 | 7.1% | 0.07 | 15 | \$79,488 | 25% | 0.0 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Retail | Space Heating | New | building | 17,920 | 7.1% | 0.07 | 15 | \$79,488 | 35% | 0.0 |
| DLC | Hi Eff HVAC System Design | No HVAC Design | Retail | Space Heating | New | building | 17,920 | 11% | 0.1 | 10 | \$176,830 | 51% | 0.0 |
| DLC | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Retail | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 1.1 |
| DLC | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Retail | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 1.1 |
| DLC | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Retail | Space Heating | Existing | building | 17,920 | 2.3% | 0.02 | 10 | \$7,735 | 81% | 0.0 |
| DLC | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Retail | Space Heating | New | building | 17,920 | 2.3% | 0.02 | 10 | \$7,735 | 81% | 0.0 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Retail | Space Heating | Existing | building | 17,920 | 3.6% | 0.04 | 11 | \$286 | 49% | 1.1 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Retail | Space Heating | New | building | 17,920 | 3.1% | 0.03 | 11 | \$146 | 49% | 1.8 |
| DLC | Re-Commissioning (Existing Construction) | No Re-Commissioning | Retail | Space Heating | Existing | building | 17,920 | 16% | 0.2 | 5 | \$8,051 | 86% | 0.1 |
| DLC | VFD on Cooling Tower Fan | Motor w/out VFD | Retail | Space Heating | Early | motor | 29,667 | 70% | 3.4 | 15 | \$2,843 | 88% | 5.6 |
| DLC | VFD on Cooling Tower Fan | Motor w/out VFD | Retail | Space Heating | New | motor | 29,112 | 72% | 3.3 | 15 | \$2,843 | 88% | 5.5 |
| DLC | VFD on Cooling Tower Fan | Motor w/out VFD | Retail | Space Heating | ROB | motor | 29,112 | 72% | 3.3 | 15 | \$2,843 | 88% | 5.5 |
| DLC | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Retail | Space Heating | Existing | building | 17,920 | 8.1% | 0.08 | 15 | \$5,499 | 26% | 0.2 |
| DLC | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Retail | Space Heating | New | building | 17,920 | 0.3% | 0.00 | 15 | \$4,218 | 94% | 0.0 |
| DLC | 80W Induction Street Lighting | One 100W HPS Street Light Fixture | Retail | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 0% | 0.3 |
| DLC | 80W Induction Street Lighting | One 100W HPS Street Light Fixture | Retail | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.9 |
| DLC | 80W Induction Street Lighting | One 100W HPS Street Light Fixture | Retail | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.9 |
| DLC | Green LED Traffic Light | Green Incandescent Traffic Light | Retail | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 0% | 1.3 |
| DLC | Green LED Traffic Light | Green Incandescent Traffic Light | Retail | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.2 |
| DLC | Green LED Traffic Light | Green Incandescent Traffic Light | Retail | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.2 |
| DLC | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Retail | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 0% | 3.1 |
| DLC | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Retail | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| DLC | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Retail | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| DLC | LED Street Lighting (67W) | One 100W HPS Street Light | Retail | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 0% | 0.2 |
| DLC | LED Street Lighting (67W) | One 100W HPS Street Light | Retail | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.4 |
| DLC | LED Street Lighting (67W) | One 100W HPS Street Light | Retail | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.4 |
| DLC | Red LED Traffic Light | One Red Incandescent Traffic Light | Retail | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 0% | 1.7 |
| DLC | Red LED Traffic Light | One Red Incandescent Traffic Light | Retail | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| DLC | Red LED Traffic Light | One Red Incandescent Traffic Light | Retail | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| DLC | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Retail | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 0% | 0.1 |
| DLC | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Retail | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| DLC | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Retail | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| DLC | Demand controlled Circulating Systems | Constant circulation system | Retail | Water Heating | Existing | building | 6,456 | 20% | 0.2 | 15 | \$1,171 | 59% | 0.8 |
| DLC | Demand controlled Circulating Systems | Constant circulation system | Retail | Water Heating | New | building | 6,456 | 20% | 0.2 | 15 | \$1,171 | 59% | 0.8 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|---|-----------------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Drainwater Heat Recovery Water Heater | No heat recovery | Retail | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 2.1 |
| DLC | Drainwater Heat Recovery Water Heater | No heat recovery | Retail | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 2.1 |
| DLC | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Retail | Water Heating | Existing | building | 6,456 | 5.9% | 0.06 | 12 | \$14 | 85% | 16.7 |
| DLC | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Retail | Water Heating | New | building | 6,456 | 5.9% | 0.06 | 12 | \$4.0 | 85% | 58.3 |
| DLC | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Retail | Water Heating | Early | water heater | 4,077 | 66% | 0.5 | 10 | \$1,187 | 68% | 1.2 |
| DLC | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Retail | Water Heating | Early | water heater | 4,077 | 66% | 0.5 | 10 | \$1,187 | 68% | 1.2 |
| DLC | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Retail | Water Heating | New | water heater | 4,077 | 66% | 0.5 | 10 | \$1,187 | 68% | 1.2 |
| DLC | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Retail | Water Heating | New | water heater | 4,077 | 66% | 0.5 | 10 | \$1,187 | 68% | 1.2 |
| DLC | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Retail | Water Heating | ROB | water heater | 3,963 | 65% | 0.5 | 10 | \$1,187 | 68% | 1.1 |
| DLC | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Retail | Water Heating | ROB | water heater | 3,963 | 65% | 0.5 | 10 | \$1,187 | 68% | 1.1 |
| DLC | Heat Recovery Unit | Base Water Heating | Retail | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.8 |
| DLC | Heat Recovery Unit | Base Water Heating | Retail | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.8 |
| DLC | Heat Trap | No Heat Trap | Retail | Water Heating | Existing | building | 6,456 | 22% | 0.2 | 11 | \$44 | 50% | 18.2 |
| DLC | Heat Trap | No Heat Trap | Retail | Water Heating | New | building | 6,456 | 22% | 0.2 | 11 | \$6.5 | 50% | 122.5 |
| DLC | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Retail | Water Heating | Early | water heater | 4,077 | 5.9% | 0.04 | 15 | \$307 | 79% | 0.6 |
| DLC | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Retail | Water Heating | Early | water heater | 4,077 | 5.9% | 0.04 | 15 | \$307 | 79% | 0.6 |
| DLC | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Retail | Water Heating | New | water heater | 3,963 | 3.2% | 0.02 | 15 | \$307 | 79% | 0.3 |
| DLC | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Retail | Water Heating | New | water heater | 3,963 | 3.2% | 0.02 | 15 | \$307 | 79% | 0.3 |
| DLC | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Retail | Water Heating | ROB | water heater | 3,963 | 3.2% | 0.02 | 15 | \$307 | 79% | 0.3 |
| DLC | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Retail | Water Heating | ROB | water heater | 3,963 | 3.2% | 0.02 | 15 | \$307 | 79% | 0.3 |
| DLC | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Retail | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$466 | 81% | 43.7 |
| DLC | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Retail | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 22.8 |
| DLC | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Retail | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 22.8 |
| DLC | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Retail | Water Heating | Existing | building | 6,456 | 0.5% | 0.01 | 13 | \$4.8 | 68% | 4.6 |
| DLC | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Retail | Water Heating | New | building | 6,456 | 0.5% | 0.01 | 13 | \$4.8 | 0% | 4.6 |
| DLC | Hot Water Circulation Pump Time-Clock | Constant circulation system | Retail | Water Heating | Existing | building | 6,456 | 5.3% | 0.05 | 10 | \$26 | 72% | 6.6 |
| DLC | Hot Water Circulation Pump Time-Clock | Constant circulation system | Retail | Water Heating | New | building | 6,456 | 5.3% | 0.05 | 10 | \$26 | 72% | 6.6 |
| DLC | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Retail | Water Heating | Existing | building | 5,940 | 2.3% | 0.02 | 7 | \$22 | 78% | 2.1 |
| DLC | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Retail | Water Heating | New | building | 5,940 | 2.1% | 0.02 | 7 | \$0.5 | 78% | 82.8 |
| DLC | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Retail | Water Heating | Existing | building | 6,456 | 3.0% | 0.03 | 5 | \$300 | 0% | 0.2 |
| DLC | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Retail | Water Heating | New | building | 6,456 | 2.0% | 0.02 | 5 | \$194 | 0% | 0.2 |
| DLC | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Retail | Water Heating | Existing | building | 6,456 | 6.5% | 0.07 | 9 | \$25 | 2% | 7.5 |
| DLC | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Retail | Water Heating | New | building | 6,456 | 6.5% | 0.07 | 9 | \$6.0 | 2% | 31.3 |
| DLC | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Retail | Water Heating | Early | water heater | 4,077 | 52% | 0.2 | 15 | \$6,222 | 32% | 0.2 |
| DLC | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Retail | Water Heating | New | water heater | 3,963 | 51% | 0.2 | 15 | \$6,222 | 32% | 0.2 |
| DLC | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Retail | Water Heating | ROB | water heater | 3,963 | 51% | 0.2 | 15 | \$6,222 | 32% | 0.2 |
| DLC | Ultrasonic Faucet Control | Manual Faucet Control | Retail | Water Heating | Existing | building | 6,456 | 3.0% | 0.03 | 10 | \$1,117 | 77% | 0.1 |
| DLC | Ultrasonic Faucet Control | Manual Faucet Control | Retail | Water Heating | New | building | 6,456 | 3.0% | 0.03 | 10 | \$1,117 | 77% | 0.1 |
| DLC | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Retail | Water Heating | Existing | building | 6,456 | 2.2% | 0.02 | 4 | \$28 | 83% | 1.0 |
| DLC | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Retail | Water Heating | New | building | 6,456 | 2.3% | 0.02 | 4 | \$28 | 83% | 1.1 |
| DLC | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Street Lighting | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.2 |
| DLC | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Street Lighting | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.2 |
| DLC | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Street Lighting | Cooking | Early | steamer | 51 | 46% | 0.00 | 12 | \$5,053 | 81% | 0.0 |
| DLC | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Street Lighting | Cooking | New | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| DLC | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Street Lighting | Cooking | ROB | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| DLC | Electric combination oven (Energy Star) | Standard Oven | Street Lighting | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 3.3 |
| DLC | Electric combination oven (Energy Star) | Standard Oven | Street Lighting | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 3.3 |
| DLC | Electric Convection Oven ENERTY STAR (74% Eff) | Conventional convection oven w/ 65% efficiency | Street Lighting | Cooking | Early | oven | 8,641 | 37% | 0.6 | 12 | \$4,119 | 81% | 0.5 |
| DLC | Electric Convection Oven ENERTY STAR (74% Eff) | Conventional convection oven w/ 70% efficiency | Street Lighting | Cooking | New | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.8 |
| DLC | Electric Convection Oven ENERTY STAR (74% Eff) | Conventional convection oven w/ 70% efficiency | Street Lighting | Cooking | ROB | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.8 |
| DLC | High Efficiency Fryer (ENERGY STAR 84% Eff) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Street Lighting | Cooking | Early | fryer | 6,105 | 23% | 0.3 | 12 | \$9,241 | 86% | 0.1 |
| DLC | High Efficiency Fryer (ENERGY STAR 84% Eff) | Standard Electric Fryer meeting Code Minimum | Street Lighting | Cooking | New | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.4 |
| DLC | High Efficiency Fryer (ENERGY STAR 84% Eff) | Standard Electric Fryer meeting Code Minimum | Street Lighting | Cooking | ROB | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.4 |
| DLC | High Efficiency Griddle (ENERGY STAR 75% Eff) | Efficiency code minimum griddle (70% eff) | Street Lighting | Cooking | Early | griddle | 11,317 | 65% | 1.4 | 12 | \$4,977 | 86% | 1.0 |
| DLC | High Efficiency Griddle (ENERGY STAR 75% Eff) | Conventional Griddle w/ 60% efficiency | Street Lighting | Cooking | New | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.3 |
| DLC | High Efficiency Griddle (ENERGY STAR 75% Eff) | Conventional Griddle w/ 60% efficiency | Street Lighting | Cooking | ROB | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.3 |
| DLC | High Efficiency Induction Cooking | Standard Cooking | Street Lighting | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.2 |
| DLC | High Efficiency Induction Cooking | Standard Cooking | Street Lighting | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.2 |
| DLC | Adding reflective roof treatment | Std color roof | Street Lighting | Cooling Central | Existing | building | 1,582 | 7.0% | 0.07 | 6 | \$12,437 | 82% | 0.0 |
| DLC | Adding reflective roof treatment | Std color roof | Street Lighting | Cooling Central | New | building | 1,582 | 7.0% | 0.07 | 6 | \$12,437 | 82% | 0.0 |
| DLC | Adding window shade film | No shade film | Street Lighting | Cooling Central | Existing | building | 1,582 | 1.3% | 0.4 | 10 | \$19 | 12% | 14.0 |
| DLC | Adding window shade film | No shade film | Street Lighting | Cooling Central | New | building | 1,582 | 1.3% | 0.4 | 10 | \$19 | 13% | 14.0 |
| DLC | Adding window shade screen | No shade screen | Street Lighting | Cooling Central | Existing | building | 1,582 | 1.1% | 0.01 | 10 | \$7.4 | 13% | 1.8 |
| DLC | Adding window shade screen | No shade screen | Street Lighting | Cooling Central | New | building | 1,582 | 1.0% | 0.01 | 10 | \$7.4 | 13% | 1.8 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|---|-----------------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Automated control system | Manual Controls | Street Lighting | Cooling Central | Existing | building | 1,582 | 17% | 0.2 | 15 | \$1,732 | 51% | 0.2 |
| DLC | Automated control system | Manual Controls | Street Lighting | Cooling Central | New | building | 1,582 | 17% | 0.2 | 15 | \$1,732 | 94% | 0.2 |
| DLC | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Street Lighting | Cooling Central | Existing | building | 1,582 | 6.2% | 0.06 | 15 | \$17,130 | 71% | 0.0 |
| DLC | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Street Lighting | Cooling Central | New | building | 1,582 | 2.1% | 0.02 | 15 | \$16,283 | 94% | 0.0 |
| DLC | Chiller Tuneup/Diagnostics | No tuneup | Street Lighting | Cooling Central | Existing | building | 1,582 | 8.0% | 0.08 | 10 | \$4,040 | 59% | 0.0 |
| DLC | Chiller Tuneup/Diagnostics | No tuneup | Street Lighting | Cooling Central | New | building | 1,582 | 8.0% | 0.08 | 10 | \$4,040 | 59% | 0.0 |
| DLC | Duct Insulation, Add R8 | No Insulation | Street Lighting | Cooling Central | Existing | building | 1,582 | 1.4% | 0.04 | 15 | \$13 | 20% | 4.1 |
| DLC | Duct Insulation, Add R8 | No Insulation | Street Lighting | Cooling Central | New | building | 1,582 | 1.4% | 0.04 | 15 | \$13 | 10% | 4.1 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Street Lighting | Cooling Central | Existing | building | 1,582 | 7.0% | 0.07 | 15 | \$7,017 | 25% | 0.0 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Street Lighting | Cooling Central | New | building | 1,582 | 7.0% | 0.07 | 15 | \$7,017 | 35% | 0.0 |
| DLC | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | Early | ton | 5,094 | 24% | 0.4 | 15 | \$108,550 | 88% | 0.0 |
| DLC | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | New | ton | 4,164 | 6.7% | 0.10 | 15 | \$12,927 | 88% | 0.0 |
| DLC | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | ROB | ton | 4,164 | 6.7% | 0.10 | 15 | \$12,927 | 88% | 0.0 |
| DLC | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | Early | ton | 7,611 | 23% | 0.6 | 15 | \$140,105 | 88% | 0.0 |
| DLC | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | New | ton | 6,124 | 4.8% | 0.1 | 15 | \$9,336 | 88% | 0.0 |
| DLC | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | ROB | ton | 6,124 | 4.8% | 0.1 | 15 | \$9,336 | 88% | 0.0 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | Early | ton | 62,308 | 26% | 5.6 | 15 | \$105,354 | 88% | 0.1 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | New | ton | 54,288 | 15% | 2.8 | 15 | \$30,530 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | ROB | ton | 54,288 | 15% | 2.8 | 15 | \$30,530 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | Early | ton | 93,320 | 23% | 7.4 | 15 | \$154,107 | 88% | 0.1 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | New | ton | 85,726 | 16% | 4.8 | 15 | \$27,646 | 88% | 0.5 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | ROB | ton | 93,320 | 23% | 7.4 | 15 | \$27,646 | 88% | 0.7 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | Early | ton | 154,988 | 23% | 12.2 | 15 | \$302,924 | 88% | 0.1 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | New | ton | 140,275 | 14% | 7.0 | 15 | \$115,432 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | ROB | ton | 154,988 | 23% | 12.2 | 15 | \$115,432 | 88% | 0.3 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | Early | ton | 185,985 | 23% | 14.6 | 15 | \$350,154 | 88% | 0.1 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | New | ton | 168,330 | 14% | 8.5 | 15 | \$120,406 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | ROB | ton | 185,985 | 23% | 14.6 | 15 | \$120,406 | 88% | 0.3 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | Early | ton | 41,225 | 29% | 4.2 | 15 | \$83,632 | 88% | 0.1 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | New | ton | 32,011 | 8.9% | 1.0 | 15 | \$40,211 | 88% | 0.1 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | ROB | ton | 41,225 | 29% | 4.2 | 15 | \$40,211 | 88% | 0.3 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | Early | ton | 70,835 | 35% | 8.6 | 15 | \$132,173 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | New | ton | 52,831 | 13% | 2.3 | 15 | \$39,556 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | ROB | ton | 52,831 | 13% | 2.3 | 15 | \$39,556 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | Early | ton | 118,265 | 39% | 16.1 | 15 | \$187,029 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | New | ton | 84,321 | 15% | 4.3 | 15 | \$33,554 | 88% | 0.3 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | ROB | ton | 118,265 | 39% | 16.1 | 15 | \$33,554 | 88% | 1.3 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | Early | ton | 20,695 | 30% | 2.1 | 15 | \$32,398 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | New | ton | 16,396 | 11% | 0.6 | 15 | \$7,188 | 88% | 0.2 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | ROB | ton | 20,695 | 30% | 2.1 | 15 | \$7,188 | 88% | 0.8 |
| DLC | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Street Lighting | Cooling Central | Existing | building | 1,582 | 2.2% | 0.02 | 10 | \$10,066 | 81% | 0.0 |
| DLC | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Street Lighting | Cooling Central | New | building | 1,582 | 2.2% | 0.02 | 10 | \$10,066 | 81% | 0.0 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Street Lighting | Cooling Central | Existing | building | 1,582 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.1 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Street Lighting | Cooling Central | New | building | 1,582 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.2 |
| DLC | Re-Commissioning (Existing Construction) | No Re-Commissioning | Street Lighting | Cooling Central | Existing | building | 1,582 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|---|-----------------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Street Lighting | Cooling Central | Existing | building | 1,582 | 11% | 0.1 | 15 | \$3,285 | 26% | 0.1 |
| DLC | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Street Lighting | Cooling Central | New | building | 1,582 | 0.3% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| DLC | <65k BTU/hr 14 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Street Lighting | Cooling Unitary | Early | ton | 2,614 | 16% | 0.2 | 15 | \$1,545 | 29% | 0.3 |
| DLC | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Street Lighting | Cooling Unitary | New | ton | 2,368 | 7.1% | 0.09 | 15 | \$339 | 29% | 0.6 |
| DLC | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Street Lighting | Cooling Unitary | ROB | ton | 2,368 | 7.1% | 0.09 | 15 | \$339 | 29% | 0.6 |
| DLC | <65k BTU/hr 15 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Street Lighting | Cooling Unitary | Early | ton | 2,614 | 22% | 0.3 | 15 | \$1,821 | 30% | 0.3 |
| DLC | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Street Lighting | Cooling Unitary | New | ton | 2,368 | 13% | 0.2 | 15 | \$714 | 30% | 0.5 |
| DLC | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Street Lighting | Cooling Unitary | ROB | ton | 2,368 | 13% | 0.2 | 15 | \$714 | 30% | 0.5 |
| DLC | <65k BTU/hr 16 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Street Lighting | Cooling Unitary | Early | ton | 2,614 | 26% | 0.4 | 15 | \$2,098 | 31% | 0.4 |
| DLC | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Street Lighting | Cooling Unitary | New | ton | 2,368 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.5 |
| DLC | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Street Lighting | Cooling Unitary | ROB | ton | 2,368 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.5 |
| DLC | >760k min 10.2 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Street Lighting | Cooling Unitary | Early | ton | 66,142 | 3.7% | 1.3 | 15 | \$68,066 | 56% | 0.0 |
| DLC | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Street Lighting | Cooling Unitary | New | ton | 66,990 | 4.9% | 1.7 | 15 | \$6,231 | 56% | 0.6 |
| DLC | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Street Lighting | Cooling Unitary | ROB | ton | 66,990 | 4.9% | 1.7 | 15 | \$6,231 | 56% | 0.6 |
| DLC | 135-240k min 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Street Lighting | Cooling Unitary | Early | ton | 16,274 | 18% | 1.6 | 15 | \$18,135 | 79% | 0.2 |
| DLC | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Street Lighting | Cooling Unitary | New | ton | 14,804 | 10.0% | 0.8 | 15 | \$1,948 | 79% | 0.8 |
| DLC | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Street Lighting | Cooling Unitary | ROB | ton | 14,804 | 10.0% | 0.8 | 15 | \$1,948 | 79% | 0.8 |
| DLC | 240k-760k min 11 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Street Lighting | Cooling Unitary | Early | ton | 43,515 | 9.0% | 2.1 | 15 | \$44,809 | 66% | 0.1 |
| DLC | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Street Lighting | Cooling Unitary | New | ton | 43,623 | 9.3% | 2.1 | 15 | \$4,813 | 66% | 0.9 |
| DLC | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Street Lighting | Cooling Unitary | ROB | ton | 43,623 | 9.3% | 2.1 | 15 | \$4,813 | 66% | 0.9 |
| DLC | 65k-135k BTU/hr 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Street Lighting | Cooling Unitary | Early | ton | 9,594 | 17% | 0.9 | 15 | \$10,946 | 86% | 0.2 |
| DLC | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Street Lighting | Cooling Unitary | New | ton | 8,550 | 6.7% | 0.3 | 15 | \$1,392 | 86% | 0.5 |
| DLC | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Street Lighting | Cooling Unitary | ROB | ton | 8,550 | 6.7% | 0.3 | 15 | \$1,392 | 86% | 0.5 |
| DLC | Adding reflective roof treatment | Std color roof | Street Lighting | Cooling Unitary | Existing | building | 23,642 | 7.0% | 0.07 | 6 | \$12,435 | 82% | 0.0 |
| DLC | Adding reflective roof treatment | Std color roof | Street Lighting | Cooling Unitary | New | building | 23,642 | 7.0% | 0.07 | 6 | \$12,435 | 82% | 0.0 |
| DLC | Adding window shade film | No shade film | Street Lighting | Cooling Unitary | Existing | building | 23,642 | 1.3% | 0.4 | 10 | \$288 | 12% | 1.3 |
| DLC | Adding window shade film | No shade film | Street Lighting | Cooling Unitary | New | building | 23,642 | 1.3% | 0.4 | 10 | \$288 | 13% | 1.3 |
| DLC | Adding window shade screen | No shade screen | Street Lighting | Cooling Unitary | Existing | building | 23,642 | 1.1% | 0.01 | 10 | \$111 | 12% | 1.0 |
| DLC | Adding window shade screen | No shade screen | Street Lighting | Cooling Unitary | New | building | 23,642 | 1.1% | 0.01 | 10 | \$111 | 13% | 1.0 |
| DLC | Automated control system | Manual Controls | Street Lighting | Cooling Unitary | Existing | building | 23,642 | 17% | 0.2 | 15 | \$25,882 | 51% | 0.1 |
| DLC | Automated control system | Manual Controls | Street Lighting | Cooling Unitary | New | building | 23,642 | 17% | 0.2 | 15 | \$25,882 | 94% | 0.1 |
| DLC | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Street Lighting | Cooling Unitary | Existing | building | 23,642 | 6.2% | 0.06 | 15 | \$17,130 | 71% | 0.1 |
| DLC | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Street Lighting | Cooling Unitary | New | building | 23,642 | 2.1% | 0.02 | 15 | \$16,283 | 94% | 0.0 |
| DLC | Duct Insulation, Add R8 | No Insulation | Street Lighting | Cooling Unitary | Existing | building | 23,642 | 1.4% | 0.04 | 15 | \$188 | 20% | 1.3 |
| DLC | Duct Insulation, Add R8 | No Insulation | Street Lighting | Cooling Unitary | New | building | 23,642 | 1.4% | 0.04 | 15 | \$188 | 10% | 1.3 |
| DLC | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Street Lighting | Cooling Unitary | Existing | building | 13,003 | 13% | 0.1 | 1 | \$125 | 73% | 0.6 |
| DLC | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Street Lighting | Cooling Unitary | New | building | 13,003 | 13% | 0.1 | 1 | \$125 | 73% | 0.6 |
| DLC | ECM Motors for split systems | Std Shaded Pole Motor | Street Lighting | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 3.2 |
| DLC | ECM Motors for split systems | Std Shaded Pole Motor | Street Lighting | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 3.2 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Street Lighting | Cooling Unitary | Existing | building | 23,642 | 7.1% | 0.07 | 15 | \$104,869 | 25% | 0.0 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Street Lighting | Cooling Unitary | New | building | 23,642 | 7.1% | 0.07 | 15 | \$104,869 | 35% | 0.0 |
| DLC | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Street Lighting | Cooling Unitary | Existing | building | 23,642 | 5.0% | 0.05 | 5 | \$225 | 59% | 1.0 |
| DLC | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Street Lighting | Cooling Unitary | Existing | building | 23,642 | 0.5% | 0.04 | 5 | \$225 | 51% | 0.2 |
| DLC | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Street Lighting | Cooling Unitary | New | building | 23,642 | 0.4% | 0.04 | 5 | \$135 | 51% | 0.2 |
| DLC | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Street Lighting | Cooling Unitary | Existing | building | 23,642 | 2.2% | 0.02 | 10 | \$10,818 | 86% | 0.0 |
| DLC | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Street Lighting | Cooling Unitary | New | building | 23,642 | 2.2% | 0.02 | 10 | \$10,818 | 86% | 0.0 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) | Street Lighting | Cooling Unitary | Existing | building | 23,642 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.8 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Street Lighting | Cooling Unitary | New | building | 23,642 | 1.7% | 0.02 | 11 | \$146 | 49% | 1.3 |
| DLC | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Street Lighting | Cooling Unitary | Early | unit | 779 | 19% | 0.09 | 15 | \$849 | 85% | 0.2 |
| DLC | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Street Lighting | Cooling Unitary | New | unit | 787 | 20% | 0.09 | 15 | \$356 | 85% | 0.5 |
| DLC | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Street Lighting | Cooling Unitary | ROB | unit | 787 | 20% | 0.09 | 15 | \$356 | 85% | 0.5 |
| DLC | Re-Commissioning (Existing Construction) | No Re-Commissioning | Street Lighting | Cooling Unitary | Existing | building | 23,642 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.1 |
| DLC | Room AC (w/ louvered sides) | Exisiting efficiency Room AC in Pennsylvania (2000 Federal Standards) | Street Lighting | Cooling Unitary | Early | ton | 1,185 | 13% | 0.06 | 9 | \$348 | 82% | 0.3 |
| DLC | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Street Lighting | Cooling Unitary | New | ton | 1,074 | 4.5% | 0.02 | 9 | \$17 | 82% | 1.6 |
| DLC | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Street Lighting | Cooling Unitary | ROB | ton | 1,074 | 4.5% | 0.02 | 9 | \$17 | 82% | 1.6 |
| DLC | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Street Lighting | Cooling Unitary | Existing | building | 23,642 | 11% | 0.1 | 15 | \$3,285 | 26% | 0.5 |
| DLC | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Street Lighting | Cooling Unitary | New | building | 23,642 | 0.3% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| DLC | 80W Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Street Lighting | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 0% | 0.2 |
| DLC | 80W Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Street Lighting | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| DLC | 80W Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Street Lighting | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|---|-----------------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Street Lighting | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 1.2 |
| DLC | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Street Lighting | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.7 |
| DLC | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Street Lighting | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.7 |
| DLC | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Street Lighting | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 53% | 0.3 |
| DLC | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Street Lighting | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 53% | 0.2 |
| DLC | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Street Lighting | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 53% | 3.1 |
| DLC | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Street Lighting | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 53% | 2.3 |
| DLC | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Street Lighting | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 53% | 3.1 |
| DLC | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Street Lighting | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 53% | 2.3 |
| DLC | Photocell Controls (Outdoor) | Lighting w/ No Controls | Street Lighting | Ext. Lighting | Existing | building | 211 | 28% | 0.3 | 8 | \$5,088 | 88% | 0.0 |
| DLC | Photocell Controls (Outdoor) | Lighting w/ No Controls | Street Lighting | Ext. Lighting | New | building | 211 | 28% | 0.3 | 8 | \$5,088 | 0% | 0.0 |
| DLC | Adding reflective roof treatment | Std color roof | Street Lighting | Heat Pump | Existing | building | 2,541 | 6.9% | 0.07 | 6 | \$12,435 | 82% | 0.0 |
| DLC | Adding reflective roof treatment | Std color roof | Street Lighting | Heat Pump | New | building | 2,541 | 6.9% | 0.07 | 6 | \$12,435 | 82% | 0.0 |
| DLC | Adding window shade film | No shade film | Street Lighting | Heat Pump | Existing | building | 2,541 | 3.9% | 0.4 | 10 | \$31 | 12% | 9.7 |
| DLC | Adding window shade film | No shade film | Street Lighting | Heat Pump | New | building | 2,541 | 3.9% | 0.4 | 10 | \$31 | 12% | 9.7 |
| DLC | Adding window shade screen | No shade screen | Street Lighting | Heat Pump | Existing | building | 2,541 | 0.3% | 0.01 | 10 | \$4.0 | 12% | 2.6 |
| DLC | Adding window shade screen | No shade screen | Street Lighting | Heat Pump | New | building | 2,541 | 0.3% | 0.01 | 10 | \$4.0 | 12% | 2.6 |
| DLC | Automated control system | Manual Controls | Street Lighting | Heat Pump | Existing | building | 2,541 | 17% | 0.2 | 15 | \$2,782 | 51% | 0.2 |
| DLC | Automated control system | Manual Controls | Street Lighting | Heat Pump | New | building | 2,541 | 17% | 0.2 | 15 | \$2,782 | 94% | 0.2 |
| DLC | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Street Lighting | Heat Pump | Existing | building | 2,541 | 6.2% | 0.06 | 15 | \$17,130 | 71% | 0.0 |
| DLC | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Street Lighting | Heat Pump | New | building | 2,541 | 2.1% | 0.02 | 15 | \$16,283 | 94% | 0.0 |
| DLC | Duct Insulation, Add R8 | No Insulation | Street Lighting | Heat Pump | Existing | building | 2,541 | 4.0% | 0.04 | 15 | \$20 | 12% | 5.0 |
| DLC | Duct Insulation, Add R8 | No Insulation | Street Lighting | Heat Pump | New | building | 2,541 | 4.0% | 0.04 | 15 | \$20 | 6% | 4.9 |
| DLC | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Street Lighting | Heat Pump | Early | heat pump | 2,289 | 12% | 0.02 | 15 | \$4,070 | 83% | 0.0 |
| DLC | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Street Lighting | Heat Pump | New | heat pump | 2,182 | 7.8% | 0.01 | 15 | \$1,097 | 83% | 0.1 |
| DLC | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Street Lighting | Heat Pump | ROB | heat pump | 2,182 | 7.8% | 0.01 | 15 | \$1,097 | 83% | 0.1 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Street Lighting | Heat Pump | Existing | building | 2,541 | 7.0% | 0.07 | 15 | \$11,271 | 25% | 0.0 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Street Lighting | Heat Pump | New | building | 2,541 | 7.0% | 0.07 | 15 | \$11,271 | 35% | 0.0 |
| DLC | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Street Lighting | Heat Pump | Early | heat pump | 23,587 | 16% | 0.3 | 15 | \$91,117 | 19% | 0.0 |
| DLC | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Street Lighting | Heat Pump | New | heat pump | 22,730 | 13% | 0.3 | 15 | \$33,927 | 19% | 0.1 |
| DLC | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Street Lighting | Heat Pump | ROB | heat pump | 22,730 | 13% | 0.3 | 15 | \$33,927 | 19% | 0.1 |
| DLC | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Street Lighting | Heat Pump | Early | heat pump | 23,587 | 16% | 0.3 | 15 | \$58,356 | 19% | 0.0 |
| DLC | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Street Lighting | Heat Pump | New | heat pump | 22,730 | 13% | 0.3 | 15 | \$1,167 | 19% | 1.7 |
| DLC | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Street Lighting | Heat Pump | ROB | heat pump | 22,730 | 13% | 0.3 | 15 | \$1,167 | 19% | 1.7 |
| DLC | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Street Lighting | Heat Pump | Early | heat pump | 6,103 | 17% | 0.09 | 12 | \$4,298 | 81% | 0.1 |
| DLC | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Street Lighting | Heat Pump | New | heat pump | 5,819 | 12% | 0.06 | 12 | \$852 | 81% | 0.5 |
| DLC | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Street Lighting | Heat Pump | ROB | heat pump | 5,819 | 12% | 0.06 | 12 | \$852 | 81% | 0.5 |
| DLC | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Street Lighting | Heat Pump | Existing | building | 2,541 | 5.0% | 0.01 | 5 | \$90 | 51% | 0.3 |
| DLC | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Street Lighting | Heat Pump | New | building | 2,541 | 5.0% | 0.01 | 5 | \$90 | 51% | 0.3 |
| DLC | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Street Lighting | Heat Pump | Existing | building | 2,541 | 2.2% | 0.02 | 10 | \$9,632 | 81% | 0.0 |
| DLC | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Street Lighting | Heat Pump | New | building | 2,541 | 2.2% | 0.02 | 10 | \$9,632 | 81% | 0.0 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Street Lighting | Heat Pump | Existing | building | 2,541 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.2 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Street Lighting | Heat Pump | New | building | 2,541 | 2.1% | 0.02 | 11 | \$146 | 49% | 0.3 |
| DLC | Re-Commissioning (Existing Construction) | No Re-Commissioning | Street Lighting | Heat Pump | Existing | building | 2,541 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |
| DLC | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Street Lighting | Heat Pump | Existing | building | 2,541 | 11% | 0.1 | 15 | \$3,285 | 26% | 0.1 |
| DLC | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Street Lighting | Heat Pump | New | building | 2,541 | 0.3% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| DLC | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Street Lighting | Heat Pump | Early | heat pump | 9,790 | 35% | 0.3 | 15 | \$35,347 | 28% | 0.1 |
| DLC | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Street Lighting | Heat Pump | New | heat pump | 9,304 | 31% | 0.3 | 15 | \$15,739 | 28% | 0.1 |
| DLC | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Street Lighting | Heat Pump | ROB | heat pump | 9,304 | 31% | 0.3 | 15 | \$15,739 | 28% | 0.1 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 299 | 9.6% | 0.01 | 13 | \$850 | 39% | 0.0 |
| DLC | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Street Lighting | High Bay Lighting | Early | Fixture | 299 | 9.5% | 0.01 | 13 | \$850 | 28% | 0.0 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 461 | 41% | 0.04 | 13 | \$850 | 36% | 0.2 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | New | Fixture | 227 | 9.6% | 0.00 | 13 | \$372 | 39% | 0.0 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Street Lighting | High Bay Lighting | New | Fixture | 211 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | New | Fixture | 350 | 41% | 0.03 | 13 | \$397 | 36% | 0.3 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 299 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 278 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 461 | 41% | 0.04 | 13 | \$397 | 36% | 0.3 |
| DLC | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 580 | 19% | 0.02 | 13 | \$851 | 38% | 0.1 |
| DLC | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Street Lighting | High Bay Lighting | Early | Fixture | 587 | 20% | 0.02 | 13 | \$851 | 38% | 0.1 |
| DLC | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 1,708 | 73% | 0.2 | 13 | \$851 | 38% | 1.0 |
| DLC | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | New | Fixture | 441 | 19% | 0.02 | 13 | \$372 | 38% | 0.2 |
| DLC | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | New | Fixture | 1,298 | 73% | 0.2 | 13 | \$383 | 38% | 1.7 |
| DLC | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 580 | 19% | 0.02 | 13 | \$372 | 38% | 0.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|---|-----------------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 1,708 | 73% | 0.2 | 13 | \$383 | 38% | 2.3 |
| DLC | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 580 | 25% | 0.03 | 13 | \$554 | 29% | 0.2 |
| DLC | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Street Lighting | High Bay Lighting | Early | Fixture | 569 | 23% | 0.03 | 13 | \$554 | 28% | 0.2 |
| DLC | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 1,708 | 74% | 0.2 | 13 | \$554 | 36% | 1.6 |
| DLC | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | New | Fixture | 441 | 25% | 0.02 | 13 | \$75 | 29% | 1.0 |
| DLC | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | New | Fixture | 1,298 | 74% | 0.2 | 13 | \$86 | 36% | 7.8 |
| DLC | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 580 | 25% | 0.03 | 13 | \$75 | 29% | 1.3 |
| DLC | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 1,708 | 74% | 0.2 | 13 | \$86 | 36% | 10.3 |
| DLC | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Street Lighting | High Bay Lighting | Early | Fixture | 151 | 0.2% | 0.00 | 13 | \$835 | 38% | 0.0 |
| DLC | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 326 | 54% | 0.03 | 13 | \$835 | 38% | 0.1 |
| DLC | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | New | Fixture | 248 | 54% | 0.03 | 13 | \$382 | 38% | 0.2 |
| DLC | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 326 | 54% | 0.03 | 13 | \$382 | 38% | 0.3 |
| DLC | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 739 | 18% | 0.03 | 13 | \$487 | 25% | 0.2 |
| DLC | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Street Lighting | High Bay Lighting | Early | Fixture | 773 | 22% | 0.03 | 13 | \$487 | 28% | 0.2 |
| DLC | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 1,708 | 65% | 0.2 | 13 | \$487 | 36% | 1.6 |
| DLC | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | New | Fixture | 562 | 18% | 0.02 | 13 | \$16 | 25% | 4.4 |
| DLC | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | New | Fixture | 1,298 | 65% | 0.2 | 13 | \$18 | 36% | 31.8 |
| DLC | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 739 | 18% | 0.03 | 13 | \$16 | 25% | 5.8 |
| DLC | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 1,708 | 65% | 0.2 | 13 | \$18 | 36% | 41.8 |
| DLC | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 739 | 1.5% | 0.00 | 13 | \$557 | 19% | 0.0 |
| DLC | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Street Lighting | High Bay Lighting | Early | Fixture | 761 | 4.3% | 0.01 | 13 | \$557 | 19% | 0.0 |
| DLC | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 1,708 | 57% | 0.2 | 13 | \$557 | 19% | 1.2 |
| DLC | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | New | Fixture | 562 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| DLC | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | New | Fixture | 1,298 | 57% | 0.1 | 13 | \$88 | 19% | 5.9 |
| DLC | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 739 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| DLC | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 1,708 | 57% | 0.2 | 13 | \$88 | 19% | 7.7 |
| DLC | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 314 | 29% | 0.01 | 13 | \$492 | 71% | 0.1 |
| DLC | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 262 | 15% | 0.01 | 13 | \$492 | 95% | 0.1 |
| DLC | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 390 | 43% | 0.02 | 13 | \$492 | 95% | 0.2 |
| DLC | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 361 | 38% | 0.02 | 13 | \$492 | 95% | 0.2 |
| DLC | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | New | Fixture | 199 | 15% | 0.00 | 13 | \$25 | 95% | 0.8 |
| DLC | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | New | Fixture | 296 | 43% | 0.02 | 13 | \$51 | 95% | 1.6 |
| DLC | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 262 | 15% | 0.01 | 13 | \$25 | 95% | 1.0 |
| DLC | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 390 | 43% | 0.02 | 13 | \$51 | 95% | 2.1 |
| DLC | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Street Lighting | High Bay Lighting | Early | lamp | 87 | 16% | 0.00 | 12 | \$7.7 | 99% | 1.2 |
| DLC | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Street Lighting | High Bay Lighting | New | lamp | 52 | 13% | 0.00 | 12 | \$1.6 | 91% | 2.7 |
| DLC | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Street Lighting | High Bay Lighting | ROB | lamp | 84 | 13% | 0.00 | 12 | \$1.6 | 91% | 4.4 |
| DLC | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 1,748 | 23% | 0.08 | 13 | \$613 | 5% | 0.5 |
| DLC | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Street Lighting | High Bay Lighting | Early | Fixture | 1,373 | 1.6% | 0.00 | 13 | \$613 | 28% | 0.0 |
| DLC | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 3,417 | 60% | 0.4 | 13 | \$613 | 18% | 2.3 |
| DLC | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | New | Fixture | 1,329 | 23% | 0.06 | 13 | \$96 | 5% | 2.2 |
| DLC | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 1,748 | 23% | 0.08 | 13 | \$96 | 5% | 2.9 |
| DLC | 85W Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 1,748 | 92% | 0.3 | 13 | \$1,916 | 95% | 0.6 |
| DLC | 85W Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 3,417 | 96% | 0.6 | 13 | \$1,916 | 95% | 1.2 |
| DLC | 85W Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | New | Fixture | 1,329 | 92% | 0.2 | 13 | \$1,468 | 95% | 0.6 |
| DLC | 85W Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | New | Fixture | 2,597 | 96% | 0.5 | 13 | \$1,149 | 95% | 1.5 |
| DLC | 85W Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 1,748 | 92% | 0.3 | 13 | \$1,468 | 95% | 0.8 |
| DLC | 85W Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 3,417 | 96% | 0.6 | 13 | \$1,149 | 95% | 2.0 |
| DLC | Auto Off Time Switch | Lighting w/ No Controls | Street Lighting | High Bay Lighting | Existing | building | 780 | 24% | 0.2 | 8 | \$1,034 | 13% | 0.2 |
| DLC | Auto Off Time Switch | Lighting w/ No Controls | Street Lighting | High Bay Lighting | New | building | 780 | 6.9% | 0.07 | 8 | \$1,034 | 0% | 0.1 |
| DLC | Central Lighting Control System | Lighting w/ No Controls | Street Lighting | High Bay Lighting | Existing | building | 780 | 38% | 0.4 | 8 | \$1,034 | 13% | 0.3 |
| DLC | Central Lighting Control System | Lighting w/ No Controls | Street Lighting | High Bay Lighting | New | building | 780 | 14% | 0.1 | 8 | \$1,034 | 13% | 0.1 |
| DLC | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Street Lighting | High Bay Lighting | New | building | 780 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.0 |
| DLC | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Street Lighting | High Bay Lighting | New | building | 780 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |
| DLC | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Street Lighting | High Bay Lighting | New | building | 780 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| DLC | Indoor Daylight Sensors | Lighting w/ No Controls | Street Lighting | High Bay Lighting | Existing | building | 780 | 28% | 0.3 | 8 | \$5,088 | 13% | 0.0 |
| DLC | Indoor Daylight Sensors | Lighting w/ No Controls | Street Lighting | High Bay Lighting | New | building | 780 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 365 W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 580 | 67% | 0.07 | 13 | \$960 | 95% | 0.3 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 1075 W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 1,708 | 89% | 0.3 | 13 | \$960 | 95% | 1.1 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 295 W Metal Halide Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 469 | 59% | 0.05 | 13 | \$960 | 95% | 0.2 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 365 W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | New | Fixture | 441 | 67% | 0.06 | 13 | \$480 | 95% | 0.4 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 1075 W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | New | Fixture | 1,298 | 89% | 0.2 | 13 | \$491 | 95% | 1.6 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 295 W Metal Halide Fixture | Street Lighting | High Bay Lighting | New | Fixture | 356 | 59% | 0.04 | 13 | \$406 | 95% | 0.4 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 365 W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 580 | 67% | 0.07 | 13 | \$480 | 95% | 0.6 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 1075 W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 1,708 | 89% | 0.3 | 13 | \$491 | 95% | 2.1 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 295 W Metal Halide Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 469 | 59% | 0.05 | 13 | \$406 | 95% | 0.5 |
| DLC | Occupancy Sensor | Lighting w/ No Controls | Street Lighting | High Bay Lighting | Existing | building | 780 | 24% | 0.2 | 8 | \$1,558 | 11% | 0.1 |
| DLC | Occupancy Sensor | Lighting w/ No Controls | Street Lighting | High Bay Lighting | New | building | 780 | 6.9% | 0.07 | 8 | \$1,558 | 0% | 0.0 |
| DLC | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Street Lighting | High Bay Lighting | Existing | building | 780 | 28% | 0.3 | 8 | \$5,088 | 11% | 0.0 |
| DLC | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Street Lighting | High Bay Lighting | New | building | 780 | 4.0% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| DLC | Time Clock Control | Lighting w/ No Controls | Street Lighting | High Bay Lighting | Existing | building | 780 | 28% | 0.3 | 8 | \$1,034 | 13% | 0.2 |
| DLC | Time Clock Control | Lighting w/ No Controls | Street Lighting | High Bay Lighting | New | building | 780 | 4.1% | 0.04 | 8 | \$1,034 | 0% | 0.0 |
| DLC | Auto Off Time Switch | Lighting w/ No Controls | Street Lighting | Lin. Fluor. Lighting | Existing | building | 16,132 | 24% | 0.2 | 8 | \$1,034 | 13% | 1.2 |
| DLC | Auto Off Time Switch | Lighting w/ No Controls | Street Lighting | Lin. Fluor. Lighting | New | building | 16,132 | 7.0% | 0.07 | 8 | \$1,034 | 0% | 0.4 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|--|-----------------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Central Lighting Control System | Lighting w/ No Controls | Street Lighting | Lin. Fluor. Lighting | Existing | building | 16,132 | 38% | 0.4 | 8 | \$1,034 | 12% | 2.0 |
| DLC | Central Lighting Control System | Lighting w/ No Controls | Street Lighting | Lin. Fluor. Lighting | New | building | 16,132 | 14% | 0.1 | 8 | \$1,034 | 12% | 0.7 |
| DLC | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Street Lighting | Lin. Fluor. Lighting | New | building | 16,132 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.0 |
| DLC | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Street Lighting | Lin. Fluor. Lighting | New | building | 16,132 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |
| DLC | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Street Lighting | Lin. Fluor. Lighting | New | building | 16,132 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| DLC | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Street Lighting | Lin. Fluor. Lighting | Early | Lamp | 175 | 38% | 0.01 | 12 | \$7.3 | 94% | 5.9 |
| DLC | Indoor Daylight Sensors | Lighting w/ No Controls | Street Lighting | Lin. Fluor. Lighting | Existing | building | 16,132 | 28% | 0.3 | 8 | \$5,088 | 13% | 0.3 |
| DLC | Indoor Daylight Sensors | Lighting w/ No Controls | Street Lighting | Lin. Fluor. Lighting | New | building | 16,132 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 28W T8 Lamp, Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | Early | Lamp | 38 | 19% | 0.00 | 15 | \$35 | 94% | 0.2 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 40W T12 Lamp, Magnetic Ballast | Street Lighting | Lin. Fluor. Lighting | Early | Lamp | 83 | 63% | 0.01 | 15 | \$35 | 94% | 1.2 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 28W T5 Lamp, Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | Early | Lamp | 46 | 34% | 0.00 | 15 | \$35 | 94% | 0.4 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 32W T8 Lamp, Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | Early | Lamp | 45 | 32% | 0.00 | 15 | \$35 | 94% | 0.3 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 28W T8 Lamp, Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | New | Lamp | 29 | 19% | 0.00 | 15 | \$28 | 94% | 0.2 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 32W T8 Lamp, Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | New | Lamp | 34 | 32% | 0.00 | 15 | \$29 | 94% | 0.3 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 28W T5 Lamp, Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | New | Lamp | 35 | 34% | 0.00 | 15 | \$22 | 94% | 0.4 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 32W T8 Lamp, Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | New | Lamp | 34 | 32% | 0.00 | 15 | \$29 | 94% | 0.3 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 28W T8 Lamp, Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | ROB | Lamp | 38 | 19% | 0.00 | 15 | \$28 | 94% | 0.2 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 32W T8 Lamp, Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | ROB | Lamp | 45 | 32% | 0.00 | 15 | \$29 | 94% | 0.4 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 28W T5 Lamp, Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | ROB | Lamp | 46 | 34% | 0.00 | 15 | \$22 | 94% | 0.6 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 32W T8 Lamp, Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | ROB | Lamp | 45 | 32% | 0.00 | 15 | \$29 | 94% | 0.4 |
| DLC | Occupancy Sensor | Lighting w/ No Controls | Street Lighting | Lin. Fluor. Lighting | Existing | building | 16,132 | 24% | 0.2 | 8 | \$1,558 | 12% | 0.8 |
| DLC | Occupancy Sensor | Lighting w/ No Controls | Street Lighting | Lin. Fluor. Lighting | New | building | 16,132 | 7.0% | 0.07 | 8 | \$1,558 | 0% | 0.2 |
| DLC | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Street Lighting | Lin. Fluor. Lighting | Existing | building | 16,132 | 28% | 0.3 | 8 | \$5,088 | 11% | 0.3 |
| DLC | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Street Lighting | Lin. Fluor. Lighting | New | building | 16,132 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 40W T12 w/ Magnetic Ballast | Street Lighting | Lin. Fluor. Lighting | Early | Lamp | 175 | 54% | 0.02 | 12 | \$9.1 | 94% | 6.7 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | Early | Lamp | 112 | 28% | 0.01 | 12 | \$9.1 | 24% | 2.2 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | Early | Lamp | 108 | 26% | 0.01 | 12 | \$9.1 | 94% | 2.0 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | New | Lamp | 82 | 26% | 0.00 | 12 | \$2.5 | 94% | 5.5 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | New | Lamp | 82 | 26% | 0.00 | 12 | \$2.5 | 94% | 5.5 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | New | Lamp | 85 | 28% | 0.00 | 12 | \$2.5 | 24% | 6.2 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | New | Lamp | 82 | 26% | 0.00 | 12 | \$2.5 | 94% | 5.5 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | ROB | Lamp | 108 | 26% | 0.01 | 12 | \$2.5 | 94% | 7.2 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | ROB | Lamp | 108 | 26% | 0.01 | 12 | \$2.5 | 94% | 7.2 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | ROB | Lamp | 112 | 28% | 0.01 | 12 | \$2.5 | 24% | 8.1 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | ROB | Lamp | 108 | 26% | 0.01 | 12 | \$2.5 | 94% | 7.2 |
| DLC | T8 Lamp (any length) Electronic Ballast | Standard T12 lamp (any length) | Street Lighting | Lin. Fluor. Lighting | Early | Lamp | 206 | 42% | 0.02 | 12 | \$14 | 94% | 4.0 |
| DLC | Time Clock Control | Lighting w/ No Controls | Street Lighting | Lin. Fluor. Lighting | Existing | building | 16,132 | 28% | 0.3 | 8 | \$1,034 | 14% | 1.5 |
| DLC | Time Clock Control | Lighting w/ No Controls | Street Lighting | Lin. Fluor. Lighting | New | building | 16,132 | 4.1% | 0.04 | 8 | \$1,034 | 0% | 0.2 |
| DLC | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | Early | motor | 3,361 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| DLC | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | Early | motor | 3,361 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| DLC | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | Early | motor | 3,361 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| DLC | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | Early | motor | 3,361 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| DLC | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | Early | motor | 3,361 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| DLC | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | New | motor | 3,259 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| DLC | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | New | motor | 3,259 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| DLC | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | New | motor | 3,259 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| DLC | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | ROB | motor | 3,259 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| DLC | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | ROB | motor | 3,259 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| DLC | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | ROB | motor | 3,259 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| DLC | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | ROB | motor | 3,259 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| DLC | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | Early | motor | 4,956 | 3.0% | 0.02 | 15 | \$402 | 76% | 0.3 |
| DLC | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | Early | motor | 4,956 | 3.0% | 0.02 | 15 | \$402 | 76% | 0.3 |
| DLC | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | Early | motor | 4,956 | 3.0% | 0.02 | 15 | \$402 | 76% | 0.3 |
| DLC | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | Early | motor | 4,956 | 3.0% | 0.02 | 15 | \$402 | 76% | 0.3 |
| DLC | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | New | motor | 4,832 | 0.5% | 0.00 | 15 | \$60 | 76% | 0.3 |
| DLC | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | New | motor | 4,832 | 0.5% | 0.00 | 15 | \$60 | 76% | 0.3 |
| DLC | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | New | motor | 4,832 | 0.5% | 0.00 | 15 | \$60 | 76% | 0.3 |
| DLC | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | New | motor | 4,832 | 0.5% | 0.00 | 15 | \$60 | 76% | 0.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|---|-----------------|---------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | Early | motor | 221,800 | 1.3% | 0.4 | 15 | \$3,955 | 61% | 0.5 |
| DLC | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | Early | motor | 221,800 | 1.3% | 0.4 | 15 | \$3,955 | 61% | 0.5 |
| DLC | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | Early | motor | 221,800 | 1.3% | 0.4 | 15 | \$3,955 | 61% | 0.6 |
| DLC | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | Early | motor | 221,800 | 1.3% | 0.4 | 15 | \$3,955 | 61% | 0.5 |
| DLC | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | New | motor | 219,972 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.4 |
| DLC | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | New | motor | 219,972 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.4 |
| DLC | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | New | motor | 219,972 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.3 |
| DLC | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | New | motor | 219,972 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.4 |
| DLC | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | New | motor | 219,972 | 0.4% | 0.1 | 15 | \$554 | 61% | 1.3 |
| DLC | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | ROB | motor | 219,972 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.4 |
| DLC | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | ROB | motor | 219,972 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.4 |
| DLC | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | ROB | motor | 219,972 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.4 |
| DLC | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | ROB | motor | 219,972 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.4 |
| DLC | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | ROB | motor | 219,972 | 0.4% | 0.1 | 15 | \$554 | 61% | 1.3 |
| DLC | Downsizing motor during retrofit | Larger hp standard motor | Street Lighting | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 25.1 |
| DLC | Downsizing motor during retrofit | Larger hp standard motor | Street Lighting | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 25.6 |
| DLC | Downsizing motor during retrofit | Larger hp standard motor | Street Lighting | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 26.0 |
| DLC | Downsizing motor during retrofit | Larger hp standard motor | Street Lighting | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 26.4 |
| DLC | Downsizing motor during retrofit | Larger hp standard motor | Street Lighting | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 27.1 |
| DLC | Downsizing motor during retrofit | Larger hp standard motor | Street Lighting | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 24.9 |
| DLC | Downsizing motor during retrofit | Larger hp standard motor | Street Lighting | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 25.5 |
| DLC | Downsizing motor during retrofit | Larger hp standard motor | Street Lighting | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 26.1 |
| DLC | Downsizing motor during retrofit | Larger hp standard motor | Street Lighting | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 26.7 |
| DLC | Downsizing motor during retrofit | Larger hp standard motor | Street Lighting | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 26.9 |
| DLC | Escalator Motor Controller | Constant power control | Street Lighting | Motors | New | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 45% | 6.9 |
| DLC | Escalator Motor Controller | Constant power control | Street Lighting | Motors | ROB | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 45% | 6.9 |
| DLC | Variable Speed Drive Control, 15HP | Existing Motors w/out VSD Drive | Street Lighting | Motors | Early | motor | 45,928 | 70% | 4.7 | 15 | \$731 | 86% | 32.8 |
| DLC | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Street Lighting | Motors | New | motor | 44,940 | 71% | 4.7 | 15 | \$731 | 86% | 32.8 |
| DLC | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Street Lighting | Motors | ROB | motor | 44,940 | 71% | 4.7 | 15 | \$731 | 86% | 32.8 |
| DLC | Variable Speed Drive Control, 40HP | Existing Motors w/out VSD Drive | Street Lighting | Motors | Early | motor | 119,841 | 71% | 12.5 | 15 | \$4,666 | 86% | 13.5 |
| DLC | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Street Lighting | Motors | New | motor | 118,440 | 72% | 12.5 | 15 | \$4,666 | 86% | 13.5 |
| DLC | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Street Lighting | Motors | ROB | motor | 118,440 | 71% | 12.5 | 15 | \$4,666 | 86% | 13.5 |
| DLC | Variable Speed Drive Control, 5HP | Existing Motors w/out VFD Drive | Street Lighting | Motors | Early | motor | 15,922 | 71% | 1.7 | 15 | \$2,243 | 86% | 3.7 |
| DLC | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Street Lighting | Motors | New | motor | 15,566 | 72% | 1.6 | 15 | \$2,243 | 86% | 3.7 |
| DLC | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Street Lighting | Motors | ROB | motor | 15,566 | 71% | 1.6 | 15 | \$2,243 | 86% | 3.7 |
| DLC | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Street Lighting | Motors | Early | motor | 4,943 | 23% | 0.1 | 15 | \$268 | 13% | 3.0 |
| DLC | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Street Lighting | Motors | New | motor | 4,943 | 23% | 0.1 | 15 | \$268 | 13% | 3.0 |
| DLC | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Street Lighting | Motors | ROB | motor | 4,943 | 23% | 0.1 | 15 | \$268 | 13% | 3.0 |
| DLC | VFD on Chilled Water Pump | Motor w/out VFD Drive | Street Lighting | Motors | Early | motor | 16,590 | 55% | 1.2 | 15 | \$2,903 | 86% | 2.3 |
| DLC | VFD on Chilled Water Pump | Motor w/out VFD Drive | Street Lighting | Motors | New | motor | 16,280 | 55% | 1.2 | 15 | \$2,843 | 86% | 2.3 |
| DLC | VFD on Chilled Water Pump | Motor w/out VFD Drive | Street Lighting | Motors | ROB | motor | 16,280 | 55% | 1.2 | 15 | \$2,843 | 86% | 2.3 |
| DLC | VFD on Condenser Water Pump | Motor w/out VFD Drive | Street Lighting | Motors | Early | motor | 18,641 | 32% | 0.8 | 15 | \$2,903 | 86% | 1.5 |
| DLC | VFD on Condenser Water Pump | Motor w/out VFD Drive | Street Lighting | Motors | New | motor | 18,292 | 33% | 0.8 | 15 | \$2,843 | 86% | 1.6 |
| DLC | VFD on Condenser Water Pump | Motor w/out VFD Drive | Street Lighting | Motors | ROB | motor | 18,292 | 33% | 0.8 | 15 | \$2,843 | 86% | 1.6 |
| DLC | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Street Lighting | Motors | Early | motor | 27,718 | 56% | 2.0 | 15 | \$2,903 | 86% | 3.9 |
| DLC | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Street Lighting | Motors | New | motor | 27,199 | 57% | 2.0 | 15 | \$2,843 | 86% | 4.0 |
| DLC | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Street Lighting | Motors | ROB | motor | 27,199 | 57% | 2.0 | 15 | \$2,843 | 86% | 4.0 |
| DLC | VFD on HVAC Fan | Motor w/out VFD | Street Lighting | Motors | Early | motor | 18,724 | 70% | 1.9 | 15 | \$2,903 | 86% | 3.4 |
| DLC | VFD on HVAC Fan | Motor w/out VFD | Street Lighting | Motors | New | motor | 18,373 | 71% | 1.9 | 15 | \$2,843 | 86% | 3.4 |
| DLC | VFD on HVAC Fan | Motor w/out VFD | Street Lighting | Motors | ROB | motor | 18,373 | 71% | 1.9 | 15 | \$2,843 | 86% | 3.4 |
| DLC | Variable Speed Drives on Process Equipment | Constant speed control | Street Lighting | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 11.5 |
| DLC | Variable Speed Drives on Process Equipment | Constant speed control | Street Lighting | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 11.5 |
| DLC | 9W Exit Sign Retrofit: CFL replacing Incandescent | One 23W Single Sided Incandescent Exit Sign | Street Lighting | Other Int. Lighting | Early | exit sign | 139 | 42% | 0.01 | 15 | \$48 | 22% | 0.9 |
| DLC | Auto Off Time Switch | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | Existing | building | 13,378 | 24% | 0.2 | 8 | \$1,034 | 13% | 1.1 |
| DLC | Auto Off Time Switch | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | New | building | 13,378 | 7.0% | 0.07 | 8 | \$1,034 | 0% | 0.3 |
| DLC | Central Lighting Control System | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | Existing | building | 13,378 | 38% | 0.4 | 8 | \$1,034 | 13% | 1.7 |
| DLC | Central Lighting Control System | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | New | building | 13,378 | 14% | 0.1 | 8 | \$1,034 | 13% | 0.6 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 40W Incandescent Bulb | Street Lighting | Other Int. Lighting | Early | lamp | 87 | 87% | 0.01 | 15 | \$30 | 14% | 2.0 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | Early | lamp | 62 | 81% | 0.01 | 15 | \$30 | 11% | 1.3 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | New | lamp | 47 | 81% | 0.01 | 15 | \$21 | 14% | 1.4 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | New | lamp | 47 | 81% | 0.01 | 15 | \$23 | 14% | 1.3 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | New | lamp | 47 | 81% | 0.01 | 15 | \$22 | 11% | 1.4 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | ROB | lamp | 62 | 81% | 0.01 | 15 | \$21 | 14% | 1.9 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | ROB | lamp | 62 | 81% | 0.01 | 15 | \$23 | 14% | 1.7 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | ROB | lamp | 62 | 81% | 0.01 | 15 | \$22 | 11% | 1.8 |
| DLC | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Street Lighting | Other Int. Lighting | Early | lamp | 87 | 75% | 0.01 | 7 | \$73 | 24% | 0.3 |
| DLC | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Street Lighting | Other Int. Lighting | New | fixture | 95 | 65% | 0.01 | 13 | \$29 | 28% | 1.5 |
| DLC | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | New | lamp | 47 | 65% | 0.01 | 7 | \$29 | 28% | 0.4 |
| DLC | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Street Lighting | Other Int. Lighting | ROB | fixture | 125 | 65% | 0.01 | 13 | \$29 | 24% | 1.9 |
| DLC | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | ROB | lamp | 62 | 65% | 0.01 | 7 | \$29 | 24% | 0.5 |
| DLC | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Street Lighting | Other Int. Lighting | Early | lamp | 87 | 75% | 0.01 | 7 | \$3.2 | 24% | 6.9 |
| DLC | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | New | lamp | 47 | 65% | 0.01 | 7 | \$1.8 | 24% | 5.8 |
| DLC | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | ROB | lamp | 62 | 65% | 0.01 | 7 | \$1.8 | 24% | 7.7 |
| DLC | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | ROB | lamp | 62 | 65% | 0.01 | 7 | \$1.8 | 24% | 7.7 |
| DLC | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Street Lighting | Other Int. Lighting | New | building | 13,378 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|---|-----------------|---------------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Street Lighting | Other Int. Lighting | New | building | 13,378 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |
| DLC | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Street Lighting | Other Int. Lighting | New | building | 13,378 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| DLC | Indoor Daylight Sensors | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | Existing | building | 13,378 | 28% | 0.3 | 8 | \$5,088 | 13% | 0.3 |
| DLC | Indoor Daylight Sensors | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | New | building | 13,378 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| DLC | LED Exit Signs Single-sided (5W) | Existing Single-Sided Exit Signs (Average: 16 W) | Street Lighting | Other Int. Lighting | Early | sign | 153 | 87% | 0.02 | 15 | \$48 | 16% | 2.0 |
| DLC | LED Exit Signs Single-sided (5W) | One 9W Single-Sided CFL Exit Sign | Street Lighting | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 2.2 |
| DLC | LED Exit Signs Single-sided (5W) | One 9W Single-Sided CFL Exit Sign | Street Lighting | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 2.2 |
| DLC | LED Task Lighting/Screw-In (10W) | 1 15W CFL bulb | Street Lighting | Other Int. Lighting | Early | lamp | 22 | 33% | 0.00 | 15 | \$9.6 | 24% | 0.6 |
| DLC | LED Task Lighting/Screw-In (10W) | 1 60W Incandescent Bulb | Street Lighting | Other Int. Lighting | Early | lamp | 89 | 83% | 0.01 | 15 | \$9.6 | 24% | 6.0 |
| DLC | LED Task Lighting/Screw-In (10W) | 1 43W EISA Compliant bulb | Street Lighting | Other Int. Lighting | New | lamp | 49 | 77% | 0.01 | 15 | \$7.9 | 24% | 3.6 |
| DLC | LED Task Lighting/Screw-In (10W) | 1 43W EISA Compliant bulb | Street Lighting | Other Int. Lighting | New | lamp | 49 | 77% | 0.01 | 15 | \$7.9 | 24% | 3.6 |
| DLC | LED Task Lighting/Screw-In (10W) | 1 43W EISA Compliant bulb | Street Lighting | Other Int. Lighting | ROB | lamp | 64 | 77% | 0.01 | 15 | \$7.9 | 24% | 4.8 |
| DLC | LED Task Lighting/Screw-In (10W) | 1 43W EISA Compliant bulb | Street Lighting | Other Int. Lighting | ROB | lamp | 64 | 77% | 0.01 | 15 | \$7.9 | 24% | 4.8 |
| DLC | Occupancy Sensor | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | Existing | building | 13,378 | 24% | 0.2 | 8 | \$1,558 | 11% | 0.7 |
| DLC | Occupancy Sensor | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | New | building | 13,378 | 7.0% | 0.07 | 8 | \$1,558 | 0% | 0.2 |
| DLC | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | Existing | building | 13,378 | 28% | 0.3 | 8 | \$5,088 | 11% | 0.3 |
| DLC | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | New | building | 13,378 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| DLC | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Street Lighting | Other Int. Lighting | Early | exit sign | 139 | 100% | 0.02 | 15 | \$173 | 26% | 0.6 |
| DLC | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Street Lighting | Other Int. Lighting | New | exit sign | 80 | 100% | 0.01 | 15 | \$148 | 31% | 0.4 |
| DLC | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Street Lighting | Other Int. Lighting | ROB | exit sign | 80 | 100% | 0.01 | 15 | \$148 | 26% | 0.4 |
| DLC | Time Clock Control | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | Existing | building | 13,378 | 28% | 0.3 | 8 | \$1,034 | 13% | 1.2 |
| DLC | Time Clock Control | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | New | building | 13,378 | 4.1% | 0.04 | 8 | \$1,034 | 0% | 0.2 |
| DLC | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Street Lighting | Plug Load | Existing | building | 2,195 | 46% | 0.5 | 5 | \$189 | 4% | 1.9 |
| DLC | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Street Lighting | Plug Load | New | building | 2,195 | 46% | 0.5 | 5 | \$189 | 4% | 1.9 |
| DLC | Data Center - Server/Storage Consolidation | No Consolidation | Street Lighting | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| DLC | Data Center - Server/Storage Consolidation | No Consolidation | Street Lighting | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| DLC | Data Center - Server/Storage Virtualization | No Virtualization | Street Lighting | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| DLC | Data Center - Server/Storage Virtualization | No Virtualization | Street Lighting | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| DLC | Energy Star - Scanners | Std Scanner | Street Lighting | Plug Load | New | measure | 68 | 3.8% | 0.04 | 4 | \$130 | 7% | 0.1 |
| DLC | Energy Star - Scanners | Std Scanner | Street Lighting | Plug Load | ROB | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| DLC | Energy Star Dishwasher | Existing Dishwasher units | Street Lighting | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,580 | 0% | 1.1 |
| DLC | Energy Star Dishwasher | Standard Dishwasher unit | Street Lighting | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 0% | 3.5 |
| DLC | Energy Star Dishwasher | Standard Dishwasher unit | Street Lighting | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 0% | 3.5 |
| DLC | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Street Lighting | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 17% | 0.2 |
| DLC | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Street Lighting | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.1 |
| DLC | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Street Lighting | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.1 |
| DLC | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Street Lighting | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 9% | 0.7 |
| DLC | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Street Lighting | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.5 |
| DLC | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Street Lighting | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.5 |
| DLC | ENERGY STAR® Copiers | 10% Less Efficient Copier | Street Lighting | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 80% | 0.0 |
| DLC | ENERGY STAR® Copiers | One Conventional Copier | Street Lighting | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 80% | 0.0 |
| DLC | ENERGY STAR® Copiers | One Conventional Copier | Street Lighting | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 80% | 0.0 |
| DLC | ENERGY STAR® desktop | Standard computer | Street Lighting | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 87% | 0.1 |
| DLC | ENERGY STAR® desktop | Standard computer | Street Lighting | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 87% | 2.1 |
| DLC | ENERGY STAR® desktop | Standard computer | Street Lighting | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 87% | 2.1 |
| DLC | ENERGY STAR® Fax | 10% Less Efficient Fax | Street Lighting | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 89% | 0.0 |
| DLC | ENERGY STAR® Fax | One Conventional Fax | Street Lighting | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 89% | 0.1 |
| DLC | ENERGY STAR® Fax | One Conventional Fax | Street Lighting | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 89% | 0.1 |
| DLC | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Street Lighting | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 89% | 0.0 |
| DLC | ENERGY STAR® Monitors | One Conventional Monitor | Street Lighting | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 89% | 0.0 |
| DLC | ENERGY STAR® Monitors | One Conventional Monitor | Street Lighting | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 89% | 0.0 |
| DLC | ENERGY STAR® Printers | 10% Less Efficient Printer | Street Lighting | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 89% | 0.0 |
| DLC | ENERGY STAR® Printers | One Conventional Printer | Street Lighting | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 89% | 0.3 |
| DLC | ENERGY STAR® Printers | One Conventional Printer | Street Lighting | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$130 | 89% | 0.3 |
| DLC | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Street Lighting | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 87% | 0.1 |
| DLC | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Street Lighting | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 87% | 0.8 |
| DLC | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Street Lighting | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 87% | 0.8 |
| DLC | ENERGY STAR® Televisions | 10% Less Efficient Television | Street Lighting | Plug Load | Early | Unit | 111 | 38% | 0.01 | 6 | \$672 | 85% | 0.0 |
| DLC | ENERGY STAR® Televisions | One Conventional Television | Street Lighting | Plug Load | New | Unit | 101 | 32% | 0.01 | 6 | \$206 | 85% | 0.0 |
| DLC | ENERGY STAR® Televisions | One Conventional Television | Street Lighting | Plug Load | ROB | Unit | 101 | 32% | 0.01 | 6 | \$206 | 85% | 0.0 |
| DLC | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Street Lighting | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 81% | 0.3 |
| DLC | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Street Lighting | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 81% | 0.7 |
| DLC | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Street Lighting | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 81% | 0.7 |
| DLC | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Street Lighting | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.3 |
| DLC | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Street Lighting | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.3 |
| DLC | Network PC Power Management | No PC Power Management | Street Lighting | Plug Load | Existing | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 16.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|--|-----------------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Network PC Power Management | No PC Power Management | Street Lighting | Plug Load | New | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 16.0 |
| DLC | Smart Strip Plug Outlets | Standard plug strip/outlet | Street Lighting | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.2 |
| DLC | Smart Strip Plug Outlets | Standard plug strip/outlet | Street Lighting | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.2 |
| DLC | Smart Strip Plug Outlets | Standard plug strip/outlet | Street Lighting | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| DLC | Smart Strip Plug Outlets | Standard plug strip/outlet | Street Lighting | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| DLC | Smart Strip Plug Outlets | Standard plug strip/outlet | Street Lighting | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| DLC | Smart Strip Plug Outlets | Standard plug strip/outlet | Street Lighting | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| DLC | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Street Lighting | Plug Load | Existing | building | 2,195 | 46% | 0.5 | 5 | \$180 | 3% | 2.0 |
| DLC | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Street Lighting | Plug Load | New | building | 2,195 | 46% | 0.5 | 5 | \$180 | 3% | 2.0 |
| DLC | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Street Lighting | Refrigeration | Existing | building | 227 | 2.1% | 0.02 | 12 | \$70 | 11% | 0.3 |
| DLC | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Street Lighting | Refrigeration | New | building | 227 | 2.1% | 0.02 | 12 | \$70 | 11% | 0.3 |
| DLC | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Street Lighting | Refrigeration | Existing | building | 227 | 7.0% | 0.07 | 12 | \$70 | 11% | 0.9 |
| DLC | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Street Lighting | Refrigeration | New | building | 227 | 7.0% | 0.07 | 12 | \$70 | 11% | 0.9 |
| DLC | Auto Closer on Refrigerator Door | Door w/out Autocloser | Street Lighting | Refrigeration | Existing | building | 1,193 | 48% | 0.5 | 8 | \$747 | 40% | 0.6 |
| DLC | Auto Closer on Refrigerator Door | Door w/out Autocloser | Street Lighting | Refrigeration | Existing | building | 4,090 | 17% | 0.2 | 8 | \$476 | 40% | 0.6 |
| DLC | Auto Closer on Refrigerator Door | Door w/out Autocloser | Street Lighting | Refrigeration | New | building | 1,193 | 48% | 0.5 | 8 | \$747 | 40% | 0.6 |
| DLC | Auto Closer on Refrigerator Door | Door w/out Autocloser | Street Lighting | Refrigeration | New | building | 4,090 | 17% | 0.2 | 8 | \$476 | 40% | 0.6 |
| DLC | Demand Hot Gas Defrost | Base Refrigeration System | Street Lighting | Refrigeration | Existing | measure | 227 | 3.0% | 0.03 | 10 | \$1,412 | 0% | 0.0 |
| DLC | Demand Hot Gas Defrost | Base Refrigeration System | Street Lighting | Refrigeration | New | measure | 227 | 3.0% | 0.03 | 10 | \$1,412 | 0% | 0.0 |
| DLC | Door Gasket- Freezer | Door w/out Gasket | Street Lighting | Refrigeration | Existing | building | 1,193 | 26% | 0.3 | 4 | \$77 | 29% | 1.7 |
| DLC | Door Gasket- Freezer | Door w/out Gasket | Street Lighting | Refrigeration | New | building | 1,193 | 26% | 0.3 | 4 | \$77 | 29% | 1.7 |
| DLC | Door Gasket- Refrigerator | Door w/out Gasket | Street Lighting | Refrigeration | Existing | building | 4,090 | 5.4% | 0.05 | 4 | \$66 | 45% | 0.7 |
| DLC | Door Gasket- Refrigerator | Door w/out Gasket | Street Lighting | Refrigeration | New | building | 4,090 | 5.4% | 0.05 | 4 | \$66 | 45% | 0.7 |
| DLC | eCube | Refrigeration unit w/out eCube | Street Lighting | Refrigeration | Existing | building | 4,090 | 15% | 0.2 | 15 | \$504 | 57% | 1.0 |
| DLC | eCube | Refrigeration unit w/out eCube | Street Lighting | Refrigeration | New | building | 4,090 | 15% | 0.2 | 15 | \$504 | 57% | 1.0 |
| DLC | Efficient compressor motor | Base Refrigeration System - Grocery | Street Lighting | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.3 |
| DLC | Efficient compressor motor | Base Refrigeration System - Grocery | Street Lighting | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.3 |
| DLC | Efficient compressor motor | Base Refrigeration System - Grocery | Street Lighting | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.3 |
| DLC | Efficient compressor motor | Base Refrigeration System - Grocery | Street Lighting | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.3 |
| DLC | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Street Lighting | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.6 |
| DLC | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Street Lighting | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| DLC | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Street Lighting | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| DLC | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Street Lighting | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.3 |
| DLC | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Street Lighting | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.8 |
| DLC | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Street Lighting | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.8 |
| DLC | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Street Lighting | Refrigeration | Existing | building | 4,090 | 3.1% | 0.03 | 10 | \$369 | 77% | 0.2 |
| DLC | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Street Lighting | Refrigeration | New | building | 4,090 | 3.1% | 0.03 | 10 | \$369 | 77% | 0.2 |
| DLC | Floating head pressure controller | System w/out FHPC | Street Lighting | Refrigeration | Existing | building | 1,193 | 19% | 0.05 | 15 | \$8,682 | 41% | 0.0 |
| DLC | Floating head pressure controller | System w/out FHPC | Street Lighting | Refrigeration | Existing | building | 227 | 44% | 0.02 | 15 | \$8,682 | 41% | 0.0 |
| DLC | Floating head pressure controller | System w/out FHPC | Street Lighting | Refrigeration | Existing | building | 4,090 | 2.0% | 0.02 | 15 | \$8,682 | 41% | 0.0 |
| DLC | Floating head pressure controller | System w/out FHPC | Street Lighting | Refrigeration | New | building | 1,193 | 19% | 0.05 | 15 | \$8,682 | 41% | 0.0 |
| DLC | Floating head pressure controller | System w/out FHPC | Street Lighting | Refrigeration | New | building | 227 | 44% | 0.02 | 15 | \$8,682 | 41% | 0.0 |
| DLC | Floating head pressure controller | System w/out FHPC | Street Lighting | Refrigeration | New | building | 4,090 | 2.0% | 0.02 | 15 | \$8,682 | 41% | 0.0 |
| DLC | High Efficiency Commercial Freezer | Std. Commercial Freezer | Street Lighting | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 86% | 0.4 |
| DLC | High Efficiency Commercial Freezer | Std. Commercial Freezer | Street Lighting | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 4.4 |
| DLC | High Efficiency Commercial Freezer | Std. Commercial Freezer | Street Lighting | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 4.4 |
| DLC | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Street Lighting | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 2% | 0.1 |
| DLC | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Street Lighting | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$406 | 2% | 1.0 |
| DLC | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Street Lighting | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$406 | 2% | 1.0 |
| DLC | High Efficiency Ice Maker | Existing Standard Efficiency Ice Maker in Pennsylvania | Street Lighting | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 73% | 0.2 |
| DLC | High Efficiency Ice Maker | Standard code minimum Ice Maker | Street Lighting | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| DLC | High Efficiency Ice Maker | Standard code minimum Ice Maker | Street Lighting | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| DLC | High Efficiency Ice Making Head | Standard Ice Making Head | Street Lighting | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 4.1 |
| DLC | High Efficiency Ice Making Head | Standard Ice Making Head | Street Lighting | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 4.1 |
| DLC | High R-Value Glass Doors | Base Refrigeration System - Grocery | Street Lighting | Refrigeration | Existing | building | 227 | 0.7% | 0.01 | 10 | \$8.8 | 0% | 0.6 |
| DLC | High R-Value Glass Doors | Base Refrigeration System - Grocery | Street Lighting | Refrigeration | New | building | 227 | 0.7% | 0.01 | 10 | \$8.8 | 0% | 0.6 |
| DLC | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Street Lighting | Refrigeration | Early | Fixture | 373 | 56% | 0.01 | 8 | \$448 | 47% | 0.1 |
| DLC | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Street Lighting | Refrigeration | New | Fixture | 291 | 44% | 0.00 | 8 | \$139 | 47% | 0.3 |
| DLC | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Street Lighting | Refrigeration | ROB | Fixture | 291 | 44% | 0.00 | 8 | \$139 | 47% | 0.3 |
| DLC | No-heat glass doors | Standard low-temp reach-in | Street Lighting | Refrigeration | Existing | building | 227 | 20% | 0.2 | 10 | \$809 | 8% | 0.2 |
| DLC | No-heat glass doors | Standard low-temp reach-in | Street Lighting | Refrigeration | New | building | 227 | 20% | 0.2 | 10 | \$809 | 8% | 0.2 |
| DLC | Quick acting freezer doors | Std. Freezer Doors | Street Lighting | Refrigeration | Existing | building | 1,193 | 13% | 0.1 | 10 | \$448 | 56% | 0.3 |
| DLC | Quick acting freezer doors | Std. Freezer Doors | Street Lighting | Refrigeration | New | building | 1,193 | 13% | 0.1 | 10 | \$448 | 56% | 0.3 |
| DLC | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Street Lighting | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 30% | 0.5 |
| DLC | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Street Lighting | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.8 |
| DLC | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Street Lighting | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.8 |
| DLC | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 30% | 1.8 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|--|-----------------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 3.3 |
| DLC | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 3.3 |
| DLC | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 30% | 1.9 |
| DLC | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 4.4 |
| DLC | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 4.4 |
| DLC | Refrigeration Commissioning | Non-commissioned refrigeration system | Street Lighting | Refrigeration | Existing | building | 5,681 | 9.5% | 0.10 | 3 | \$1,204 | 85% | 0.1 |
| DLC | Refrigeration Commissioning | Non-commissioned refrigeration system | Street Lighting | Refrigeration | New | building | 5,681 | 9.5% | 0.10 | 3 | \$1,204 | 85% | 0.1 |
| DLC | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Street Lighting | Refrigeration | Existing | building | 1,193 | 62% | 0.6 | 4 | \$93 | 22% | 3.2 |
| DLC | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Street Lighting | Refrigeration | Existing | building | 4,090 | 7.6% | 0.08 | 4 | \$80 | 22% | 0.9 |
| DLC | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Street Lighting | Refrigeration | New | building | 1,193 | 62% | 0.6 | 4 | \$93 | 22% | 3.2 |
| DLC | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Street Lighting | Refrigeration | New | building | 4,090 | 7.6% | 0.08 | 4 | \$80 | 22% | 0.9 |
| DLC | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Street Lighting | Refrigeration | Existing | building | 1,193 | 11% | 0.1 | 11 | \$119 | 79% | 1.1 |
| DLC | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Street Lighting | Refrigeration | New | building | 1,193 | 11% | 0.1 | 11 | \$119 | 79% | 1.1 |
| DLC | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Street Lighting | Refrigeration | Existing | building | 4,090 | 8.1% | 0.08 | 11 | \$119 | 79% | 1.7 |
| DLC | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Street Lighting | Refrigeration | New | building | 4,090 | 8.1% | 0.08 | 11 | \$119 | 79% | 1.7 |
| DLC | Vertical Night Covers | Display cases w/out night covers-High Temperature | Street Lighting | Refrigeration | Existing | building | 227 | 1.1% | 0.01 | 5 | \$52 | 9% | 0.1 |
| DLC | Vertical Night Covers | Display cases w/out night covers-High Temperature | Street Lighting | Refrigeration | New | building | 227 | 1.1% | 0.01 | 5 | \$52 | 9% | 0.1 |
| DLC | VSD Controlled Compressor | Compressor w/out VSD | Street Lighting | Refrigeration | Early | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.2 |
| DLC | VSD Controlled Compressor | Compressor w/out VSD | Street Lighting | Refrigeration | New | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.2 |
| DLC | VSD Controlled Compressor | Compressor w/out VSD | Street Lighting | Refrigeration | ROB | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.2 |
| DLC | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Street Lighting | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$268 | 35% | 1.0 |
| DLC | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Street Lighting | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$268 | 35% | 1.0 |
| DLC | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Street Lighting | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.5 |
| DLC | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Street Lighting | Refrigeration | New | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 3.3 |
| DLC | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Street Lighting | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.5 |
| DLC | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Street Lighting | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 3.3 |
| DLC | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 35% | 2.7 |
| DLC | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 35% | 2.5 |
| DLC | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 5.7 |
| DLC | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 5.4 |
| DLC | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 5.7 |
| DLC | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 5.4 |
| DLC | Adding reflective roof treatment | Std color roof | Street Lighting | Space Heating | Existing | building | 8,073 | 7.1% | 0.07 | 6 | \$12,393 | 82% | 0.0 |
| DLC | Adding reflective roof treatment | Std color roof | Street Lighting | Space Heating | New | building | 8,073 | 7.1% | 0.07 | 6 | \$12,393 | 82% | 0.0 |
| DLC | Adding window shade film | No shade film | Street Lighting | Space Heating | Existing | building | 8,073 | 1.3% | 0.4 | 10 | \$98 | 13% | 3.1 |
| DLC | Adding window shade film | No shade film | Street Lighting | Space Heating | New | building | 8,073 | 1.3% | 0.4 | 10 | \$98 | 13% | 3.1 |
| DLC | Adding window shade screen | No shade screen | Street Lighting | Space Heating | Existing | building | 8,073 | 1.1% | 0.01 | 10 | \$38 | 13% | 1.1 |
| DLC | Adding window shade screen | No shade screen | Street Lighting | Space Heating | New | building | 8,073 | 1.1% | 0.01 | 10 | \$38 | 13% | 1.1 |
| DLC | Automated control system | Manual Controls | Street Lighting | Space Heating | Existing | building | 8,073 | 17% | 0.2 | 15 | \$8,838 | 51% | 0.1 |
| DLC | Automated control system | Manual Controls | Street Lighting | Space Heating | New | building | 8,073 | 17% | 0.2 | 15 | \$8,838 | 94% | 0.1 |
| DLC | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Street Lighting | Space Heating | Existing | building | 8,073 | 6.2% | 0.06 | 15 | \$17,130 | 71% | 0.0 |
| DLC | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Street Lighting | Space Heating | New | building | 8,073 | 2.1% | 0.02 | 15 | \$16,283 | 94% | 0.0 |
| DLC | Duct Insulation, Add R8 | No Insulation | Street Lighting | Space Heating | Existing | building | 8,073 | 1.4% | 0.04 | 15 | \$64 | 20% | 1.7 |
| DLC | Duct Insulation, Add R8 | No Insulation | Street Lighting | Space Heating | New | building | 8,073 | 1.4% | 0.04 | 15 | \$64 | 10% | 1.7 |
| DLC | Efficient Unit Heating System | Existing Unit Heaters in PA | Street Lighting | Space Heating | Early | heater | 30,613 | 23% | 0.05 | 15 | \$3,289 | 83% | 1.3 |
| DLC | Efficient Unit Heating System | Std. Unit Heater | Street Lighting | Space Heating | New | heater | 27,169 | 13% | 0.03 | 15 | \$1,991 | 83% | 1.1 |
| DLC | Efficient Unit Heating System | Std. Unit Heater | Street Lighting | Space Heating | ROB | heater | 27,169 | 13% | 0.03 | 15 | \$1,991 | 83% | 1.1 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Street Lighting | Space Heating | Existing | building | 8,073 | 7.1% | 0.07 | 15 | \$35,809 | 25% | 0.0 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Street Lighting | Space Heating | New | building | 8,073 | 7.1% | 0.07 | 15 | \$35,809 | 35% | 0.0 |
| DLC | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Street Lighting | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 1.1 |
| DLC | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Street Lighting | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 1.1 |
| DLC | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Street Lighting | Space Heating | Existing | building | 8,073 | 2.2% | 0.02 | 10 | \$7,735 | 81% | 0.0 |
| DLC | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Street Lighting | Space Heating | New | building | 8,073 | 2.2% | 0.02 | 10 | \$7,735 | 81% | 0.0 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Street Lighting | Space Heating | Existing | building | 8,073 | 3.6% | 0.04 | 11 | \$286 | 49% | 0.5 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Street Lighting | Space Heating | New | building | 8,073 | 3.1% | 0.03 | 11 | \$146 | 49% | 0.9 |
| DLC | Re-Commissioning (Existing Construction) | No Re-Commissioning | Street Lighting | Space Heating | Existing | building | 8,073 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |
| DLC | VFD on Cooling Tower Fan | Motor w/out VFD | Street Lighting | Space Heating | Early | motor | 18,724 | 70% | 0.10 | 15 | \$2,843 | 88% | 2.8 |
| DLC | VFD on Cooling Tower Fan | Motor w/out VFD | Street Lighting | Space Heating | New | motor | 18,373 | 72% | 0.10 | 15 | \$2,843 | 88% | 2.8 |
| DLC | VFD on Cooling Tower Fan | Motor w/out VFD | Street Lighting | Space Heating | ROB | motor | 18,373 | 72% | 0.10 | 15 | \$2,843 | 88% | 2.8 |
| DLC | Wall Insualtions (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Street Lighting | Space Heating | Existing | building | 8,073 | 11% | 0.1 | 15 | \$3,285 | 26% | 0.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|---|-----------------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Wall Insulations (Going upto R 21) | Code minimum Wall Insulations | Street Lighting | Space Heating | New | building | 8,073 | 0.3% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| DLC | 80W Induction Street Lighting | One 100W HPS Street Light Fixture | Street Lighting | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 87% | 0.3 |
| DLC | 80W Induction Street Lighting | One 100W HPS Street Light Fixture | Street Lighting | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 87% | 1.9 |
| DLC | 80W Induction Street Lighting | One 100W HPS Street Light Fixture | Street Lighting | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 87% | 1.9 |
| DLC | Green LED Traffic Light | Green Incandescent Traffic Light | Street Lighting | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 67% | 1.3 |
| DLC | Green LED Traffic Light | Green Incandescent Traffic Light | Street Lighting | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 67% | 0.2 |
| DLC | Green LED Traffic Light | Green Incandescent Traffic Light | Street Lighting | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 67% | 0.2 |
| DLC | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Street Lighting | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 4% | 3.1 |
| DLC | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Street Lighting | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 4% | 0.4 |
| DLC | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Street Lighting | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 4% | 0.4 |
| DLC | LED Street Lighting (67W) | One 100W HPS Street Light | Street Lighting | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 88% | 0.2 |
| DLC | LED Street Lighting (67W) | One 100W HPS Street Light | Street Lighting | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 88% | 0.4 |
| DLC | LED Street Lighting (67W) | One 100W HPS Street Light | Street Lighting | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 88% | 0.4 |
| DLC | Red LED Traffic Light | One Red Incandescent Traffic Light | Street Lighting | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 67% | 1.7 |
| DLC | Red LED Traffic Light | One Red Incandescent Traffic Light | Street Lighting | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 67% | 0.3 |
| DLC | Red LED Traffic Light | One Red Incandescent Traffic Light | Street Lighting | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 67% | 0.3 |
| DLC | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Street Lighting | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 67% | 0.1 |
| DLC | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Street Lighting | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 67% | 0.0 |
| DLC | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Street Lighting | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 67% | 0.0 |
| DLC | Demand controlled Circulating Systems | Constant circulation system | Street Lighting | Water Heating | Existing | building | 2,143 | 20% | 0.2 | 15 | \$389 | 59% | 1.2 |
| DLC | Demand controlled Circulating Systems | Constant circulation system | Street Lighting | Water Heating | New | building | 2,143 | 20% | 0.2 | 15 | \$389 | 59% | 1.2 |
| DLC | Drainwater Heat Recovery Water Heater | No heat recovery | Street Lighting | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 2.1 |
| DLC | Drainwater Heat Recovery Water Heater | No heat recovery | Street Lighting | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 2.1 |
| DLC | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Street Lighting | Water Heating | Existing | building | 2,143 | 5.9% | 0.06 | 12 | \$14 | 85% | 7.8 |
| DLC | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Street Lighting | Water Heating | New | building | 2,143 | 5.9% | 0.06 | 12 | \$4.0 | 85% | 27.4 |
| DLC | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Street Lighting | Water Heating | Early | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 3.1 |
| DLC | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Street Lighting | Water Heating | Early | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 3.1 |
| DLC | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Street Lighting | Water Heating | New | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 3.1 |
| DLC | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Street Lighting | Water Heating | New | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 3.1 |
| DLC | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Street Lighting | Water Heating | ROB | water heater | 10,350 | 65% | 1.2 | 10 | \$1,187 | 68% | 2.9 |
| DLC | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Street Lighting | Water Heating | ROB | water heater | 10,350 | 65% | 1.2 | 10 | \$1,187 | 68% | 2.9 |
| DLC | Heat Recovery Unit | Base Water Heating | Street Lighting | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.8 |
| DLC | Heat Recovery Unit | Base Water Heating | Street Lighting | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.8 |
| DLC | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Street Lighting | Water Heating | Early | water heater | 10,645 | 5.9% | 0.1 | 15 | \$307 | 79% | 1.6 |
| DLC | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Street Lighting | Water Heating | Early | water heater | 10,645 | 5.9% | 0.1 | 15 | \$307 | 79% | 1.6 |
| DLC | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Street Lighting | Water Heating | New | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.8 |
| DLC | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Street Lighting | Water Heating | New | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.8 |
| DLC | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Street Lighting | Water Heating | ROB | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.8 |
| DLC | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Street Lighting | Water Heating | ROB | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.8 |
| DLC | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Street Lighting | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$466 | 81% | 43.7 |
| DLC | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Street Lighting | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 22.8 |
| DLC | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Street Lighting | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 22.8 |
| DLC | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Street Lighting | Water Heating | Existing | building | 2,143 | 1.7% | 0.02 | 13 | \$5.4 | 68% | 6.4 |
| DLC | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Street Lighting | Water Heating | New | building | 2,143 | 1.7% | 0.02 | 13 | \$5.4 | 0% | 6.4 |
| DLC | Hot Water Circulation Pump Time-Clock | Constant circulation system | Street Lighting | Water Heating | Existing | building | 2,143 | 5.3% | 0.05 | 10 | \$8.7 | 72% | 9.5 |
| DLC | Hot Water Circulation Pump Time-Clock | Constant circulation system | Street Lighting | Water Heating | New | building | 2,143 | 5.3% | 0.05 | 10 | \$8.7 | 72% | 9.5 |
| DLC | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Street Lighting | Water Heating | Existing | building | 2,143 | 0.9% | 0.01 | 7 | \$22 | 78% | 0.4 |
| DLC | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Street Lighting | Water Heating | New | building | 2,143 | 0.8% | 0.01 | 7 | \$0.5 | 78% | 16.7 |
| DLC | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Street Lighting | Water Heating | Existing | building | 2,143 | 9.0% | 0.09 | 5 | \$300 | 0% | 0.2 |
| DLC | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Street Lighting | Water Heating | New | building | 2,143 | 6.0% | 0.06 | 5 | \$194 | 0% | 0.2 |
| DLC | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Street Lighting | Water Heating | Existing | building | 2,143 | 6.5% | 0.07 | 9 | \$25 | 2% | 3.6 |
| DLC | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Street Lighting | Water Heating | New | building | 2,143 | 6.5% | 0.07 | 9 | \$6.0 | 2% | 15.1 |
| DLC | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Street Lighting | Water Heating | Early | water heater | 10,645 | 52% | 0.4 | 15 | \$6,222 | 32% | 0.6 |
| DLC | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Street Lighting | Water Heating | New | water heater | 10,350 | 51% | 0.4 | 15 | \$6,222 | 32% | 0.6 |
| DLC | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Street Lighting | Water Heating | ROB | water heater | 10,350 | 51% | 0.4 | 15 | \$6,222 | 32% | 0.6 |
| DLC | Ultrasonic Faucet Control | Manual Faucet Control | Street Lighting | Water Heating | Existing | building | 2,143 | 3.0% | 0.03 | 10 | \$371 | 77% | 0.1 |
| DLC | Ultrasonic Faucet Control | Manual Faucet Control | Street Lighting | Water Heating | New | building | 2,143 | 3.0% | 0.03 | 10 | \$371 | 77% | 0.1 |
| DLC | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Street Lighting | Water Heating | Existing | building | 2,143 | 2.2% | 0.02 | 4 | \$28 | 83% | 0.5 |
| DLC | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Street Lighting | Water Heating | New | building | 2,143 | 2.3% | 0.02 | 4 | \$28 | 83% | 0.5 |
| DLC | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Warehouse | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.2 |
| DLC | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Warehouse | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.2 |
| DLC | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Warehouse | Cooking | Early | steamer | 16 | 68% | 0.00 | 12 | \$5,053 | 81% | 0.0 |
| DLC | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Warehouse | Cooking | New | steamer | 7 | 29% | 0.00 | 12 | \$601 | 81% | 0.0 |
| DLC | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Warehouse | Cooking | ROB | steamer | 7 | 29% | 0.00 | 12 | \$601 | 81% | 0.0 |
| DLC | Electric combination oven (Energy Star) | Standard Oven | Warehouse | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 3.3 |
| DLC | Electric combination oven (Energy Star) | Standard Oven | Warehouse | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 3.3 |
| DLC | Electric Convection Oven ENERTY STAR (74% Eff) | Conventional convection oven w/ 65% efficiency | Warehouse | Cooking | Early | oven | 8,641 | 37% | 0.6 | 12 | \$4,119 | 81% | 0.5 |
| DLC | Electric Convection Oven ENERTY STAR (74% Eff) | Conventional convection oven w/ 70% efficiency | Warehouse | Cooking | New | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.8 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|---|-----------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Electric Convection Oven ENERGY STAR (74% Eff) | Conventional convection oven w/ 70% efficiency | Warehouse | Cooking | ROB | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.8 |
| DLC | High Efficiency Fryer (ENERGY STAR 84% Eff) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Warehouse | Cooking | Early | fryer | 6,105 | 23% | 0.3 | 12 | \$9,241 | 86% | 0.1 |
| DLC | High Efficiency Fryer (ENERGY STAR 84% Eff) | Standard Electric Fryer meeting Code Minimum | Warehouse | Cooking | New | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.4 |
| DLC | High Efficiency Fryer (ENERGY STAR 84% Eff) | Standard Electric Fryer meeting Code Minimum | Warehouse | Cooking | ROB | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.4 |
| DLC | High Efficiency Griddle (ENERGY STAR 75% Eff) | Efficiency code minimum griddle (70% eff) | Warehouse | Cooking | Early | griddle | 11,317 | 65% | 1.4 | 12 | \$4,977 | 86% | 1.0 |
| DLC | High Efficiency Griddle (ENERGY STAR 75% Eff) | Conventional Griddle w/ 60% efficiency | Warehouse | Cooking | New | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.3 |
| DLC | High Efficiency Griddle (ENERGY STAR 75% Eff) | Conventional Griddle w/ 60% efficiency | Warehouse | Cooking | ROB | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.3 |
| DLC | High Efficiency Induction Cooking | Standard Cooking | Warehouse | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.2 |
| DLC | High Efficiency Induction Cooking | Standard Cooking | Warehouse | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.2 |
| DLC | Adding reflective roof treatment | Std color roof | Warehouse | Cooling Central | Existing | building | 2,286 | 7.0% | 0.07 | 6 | \$20,110 | 82% | 0.0 |
| DLC | Adding reflective roof treatment | Std color roof | Warehouse | Cooling Central | New | building | 2,286 | 7.0% | 0.07 | 6 | \$20,110 | 82% | 0.0 |
| DLC | Adding window shade film | No shade film | Warehouse | Cooling Central | Existing | building | 2,286 | 1.3% | 0.4 | 10 | \$28 | 13% | 9.8 |
| DLC | Adding window shade film | No shade film | Warehouse | Cooling Central | New | building | 2,286 | 1.3% | 0.4 | 10 | \$28 | 13% | 9.8 |
| DLC | Adding window shade screen | No shade screen | Warehouse | Cooling Central | Existing | building | 2,286 | 1.1% | 0.01 | 10 | \$11 | 13% | 1.5 |
| DLC | Adding window shade screen | No shade screen | Warehouse | Cooling Central | New | building | 2,286 | 1.0% | 0.01 | 10 | \$11 | 13% | 1.5 |
| DLC | Automated control system | Manual Controls | Warehouse | Cooling Central | Existing | building | 2,286 | 17% | 0.2 | 15 | \$2,502 | 51% | 0.2 |
| DLC | Automated control system | Manual Controls | Warehouse | Cooling Central | New | building | 2,286 | 17% | 0.2 | 15 | \$2,502 | 94% | 0.2 |
| DLC | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Warehouse | Cooling Central | Existing | building | 2,286 | 5.9% | 0.06 | 15 | \$27,901 | 71% | 0.0 |
| DLC | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Warehouse | Cooling Central | New | building | 2,286 | 3.7% | 0.04 | 15 | \$26,520 | 94% | 0.0 |
| DLC | Chiller Tuneup/Diagnostics | No tuneup | Warehouse | Cooling Central | Existing | building | 2,286 | 8.0% | 0.08 | 10 | \$5,837 | 59% | 0.0 |
| DLC | Chiller Tuneup/Diagnostics | No tuneup | Warehouse | Cooling Central | New | building | 2,286 | 8.0% | 0.08 | 10 | \$5,837 | 59% | 0.0 |
| DLC | Cooling Tower Optimization | No Cooling Tower Optimization | Warehouse | Cooling Central | Existing | building | 2,286 | 20% | 0.2 | 10 | \$14 | 69% | 22.5 |
| DLC | Duct Insulation, Add R8 | No Insulation | Warehouse | Cooling Central | Existing | building | 2,286 | 1.4% | 0.04 | 15 | \$18 | 20% | 3.2 |
| DLC | Duct Insulation, Add R8 | No Insulation | Warehouse | Cooling Central | New | building | 2,286 | 1.4% | 0.04 | 15 | \$18 | 10% | 3.2 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Warehouse | Cooling Central | Existing | building | 2,286 | 7.0% | 0.07 | 15 | \$10,140 | 25% | 0.0 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Warehouse | Cooling Central | New | building | 2,286 | 7.0% | 0.07 | 15 | \$10,140 | 35% | 0.0 |
| DLC | Hi Eff HVAC System Design | No HVAC Design | Warehouse | Cooling Central | New | building | 2,286 | 12% | 0.1 | 10 | \$126,024 | 51% | 0.0 |
| DLC | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | Early | ton | 5,094 | 24% | 0.4 | 15 | \$108,550 | 89% | 0.0 |
| DLC | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | New | ton | 4,164 | 6.7% | 0.10 | 15 | \$12,927 | 89% | 0.0 |
| DLC | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | ROB | ton | 4,164 | 6.7% | 0.10 | 15 | \$12,927 | 89% | 0.0 |
| DLC | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | Early | ton | 7,611 | 23% | 0.6 | 15 | \$140,105 | 89% | 0.0 |
| DLC | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | New | ton | 6,124 | 4.8% | 0.1 | 15 | \$9,336 | 89% | 0.0 |
| DLC | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | ROB | ton | 6,124 | 4.8% | 0.1 | 15 | \$9,336 | 89% | 0.0 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | Early | ton | 62,308 | 26% | 5.6 | 15 | \$105,354 | 89% | 0.1 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | New | ton | 54,288 | 15% | 2.8 | 15 | \$30,530 | 89% | 0.2 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | ROB | ton | 54,288 | 15% | 2.8 | 15 | \$30,530 | 89% | 0.2 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | Early | ton | 93,320 | 23% | 7.4 | 15 | \$154,107 | 89% | 0.1 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | New | ton | 85,726 | 16% | 4.8 | 15 | \$27,646 | 89% | 0.5 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | ROB | ton | 93,320 | 23% | 7.4 | 15 | \$27,646 | 89% | 0.7 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | Early | ton | 154,988 | 23% | 12.2 | 15 | \$302,924 | 89% | 0.1 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | New | ton | 140,275 | 14% | 7.0 | 15 | \$115,432 | 89% | 0.2 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | ROB | ton | 154,988 | 23% | 12.2 | 15 | \$115,432 | 89% | 0.3 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | Early | ton | 185,985 | 23% | 14.6 | 15 | \$350,154 | 89% | 0.1 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | New | ton | 168,330 | 14% | 8.5 | 15 | \$120,406 | 89% | 0.2 |
| DLC | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | ROB | ton | 185,985 | 23% | 14.6 | 15 | \$120,406 | 89% | 0.3 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | Early | ton | 41,225 | 29% | 4.2 | 15 | \$83,632 | 89% | 0.1 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | New | ton | 32,011 | 8.9% | 1.0 | 15 | \$40,211 | 89% | 0.1 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | ROB | ton | 41,225 | 29% | 4.2 | 15 | \$40,211 | 89% | 0.3 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | Early | ton | 70,835 | 35% | 8.6 | 15 | \$132,173 | 89% | 0.2 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | New | ton | 52,831 | 13% | 2.3 | 15 | \$39,556 | 89% | 0.2 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | ROB | ton | 52,831 | 13% | 2.3 | 15 | \$39,556 | 89% | 0.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|---|-----------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | Early | ton | 118,265 | 39% | 16.1 | 15 | \$187,029 | 89% | 0.2 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | New | ton | 84,321 | 15% | 4.3 | 15 | \$33,554 | 89% | 0.3 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | ROB | ton | 118,265 | 39% | 16.1 | 15 | \$33,554 | 89% | 1.3 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | Early | ton | 20,695 | 30% | 2.1 | 15 | \$32,398 | 89% | 0.2 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | New | ton | 16,396 | 11% | 0.6 | 15 | \$7,188 | 89% | 0.2 |
| DLC | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | ROB | ton | 20,695 | 30% | 2.1 | 15 | \$7,188 | 89% | 0.8 |
| DLC | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Warehouse | Cooling Central | Existing | building | 2,286 | 1.1% | 0.01 | 10 | \$42,091 | 81% | 0.0 |
| DLC | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Warehouse | Cooling Central | New | building | 2,286 | 1.1% | 0.01 | 10 | \$42,091 | 81% | 0.0 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Warehouse | Cooling Central | Existing | building | 2,286 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.1 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Warehouse | Cooling Central | New | building | 2,286 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.2 |
| DLC | Re-Commissioning (Existing Construction) | No Re-Commissioning | Warehouse | Cooling Central | Existing | building | 2,286 | 16% | 0.2 | 5 | \$8,619 | 86% | 0.0 |
| DLC | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Warehouse | Cooling Central | Existing | building | 2,286 | 19% | 0.2 | 15 | \$6,551 | 26% | 0.1 |
| DLC | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Warehouse | Cooling Central | New | building | 2,286 | 0.6% | 0.01 | 15 | \$5,025 | 94% | 0.0 |
| DLC | <65k BTU/hr 14 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Warehouse | Cooling Unitary | Early | ton | 5,057 | 16% | 0.2 | 15 | \$1,545 | 28% | 0.4 |
| DLC | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Warehouse | Cooling Unitary | New | ton | 4,580 | 7.1% | 0.07 | 15 | \$339 | 28% | 0.8 |
| DLC | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Warehouse | Cooling Unitary | ROB | ton | 4,580 | 7.1% | 0.07 | 15 | \$339 | 28% | 0.8 |
| DLC | <65k BTU/hr 15 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Warehouse | Cooling Unitary | Early | ton | 5,057 | 22% | 0.2 | 15 | \$1,821 | 28% | 0.5 |
| DLC | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Warehouse | Cooling Unitary | New | ton | 4,580 | 13% | 0.1 | 15 | \$714 | 28% | 0.7 |
| DLC | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Warehouse | Cooling Unitary | ROB | ton | 4,580 | 13% | 0.1 | 15 | \$714 | 28% | 0.7 |
| DLC | <65k BTU/hr 16 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Warehouse | Cooling Unitary | Early | ton | 5,057 | 26% | 0.3 | 15 | \$2,098 | 29% | 0.5 |
| DLC | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Warehouse | Cooling Unitary | New | ton | 4,580 | 19% | 0.2 | 15 | \$1,089 | 29% | 0.6 |
| DLC | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Warehouse | Cooling Unitary | ROB | ton | 4,580 | 19% | 0.2 | 15 | \$1,089 | 29% | 0.6 |
| DLC | >760k min 10.2 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Warehouse | Cooling Unitary | Early | ton | 127,951 | 3.7% | 1.1 | 15 | \$68,066 | 35% | 0.1 |
| DLC | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Warehouse | Cooling Unitary | New | ton | 129,592 | 4.9% | 1.4 | 15 | \$6,231 | 35% | 0.8 |
| DLC | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Warehouse | Cooling Unitary | ROB | ton | 129,592 | 4.9% | 1.4 | 15 | \$6,231 | 35% | 0.8 |
| DLC | 135-240k min 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Warehouse | Cooling Unitary | Early | ton | 31,483 | 18% | 1.3 | 15 | \$18,135 | 35% | 0.3 |
| DLC | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Warehouse | Cooling Unitary | New | ton | 28,639 | 10.0% | 0.6 | 15 | \$1,948 | 35% | 1.2 |
| DLC | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Warehouse | Cooling Unitary | ROB | ton | 28,639 | 10.0% | 0.6 | 15 | \$1,948 | 35% | 1.2 |
| DLC | 240k-760k min 11 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Warehouse | Cooling Unitary | Early | ton | 84,178 | 9.0% | 1.7 | 15 | \$44,809 | 35% | 0.1 |
| DLC | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Warehouse | Cooling Unitary | New | ton | 84,388 | 9.3% | 1.7 | 15 | \$4,813 | 35% | 1.3 |
| DLC | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Warehouse | Cooling Unitary | ROB | ton | 84,388 | 9.3% | 1.7 | 15 | \$4,813 | 35% | 1.3 |
| DLC | 65k-135k BTU/hr 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Warehouse | Cooling Unitary | Early | ton | 18,559 | 17% | 0.7 | 15 | \$10,946 | 35% | 0.2 |
| DLC | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Warehouse | Cooling Unitary | New | ton | 16,540 | 6.7% | 0.2 | 15 | \$1,392 | 35% | 0.7 |
| DLC | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Warehouse | Cooling Unitary | ROB | ton | 16,540 | 6.7% | 0.2 | 15 | \$1,392 | 35% | 0.7 |
| DLC | Adding reflective roof treatment | Std color roof | Warehouse | Cooling Unitary | Existing | building | 21,208 | 7.0% | 0.07 | 6 | \$20,110 | 82% | 0.0 |
| DLC | Adding reflective roof treatment | Std color roof | Warehouse | Cooling Unitary | New | building | 21,208 | 7.0% | 0.07 | 6 | \$20,110 | 82% | 0.0 |
| DLC | Adding window shade film | No shade film | Warehouse | Cooling Unitary | Existing | building | 21,208 | 1.3% | 0.4 | 10 | \$258 | 12% | 1.4 |
| DLC | Adding window shade film | No shade film | Warehouse | Cooling Unitary | New | building | 21,208 | 1.3% | 0.4 | 10 | \$258 | 13% | 1.4 |
| DLC | Adding window shade screen | No shade screen | Warehouse | Cooling Unitary | Existing | building | 21,208 | 1.1% | 0.01 | 10 | \$100 | 12% | 1.0 |
| DLC | Adding window shade screen | No shade screen | Warehouse | Cooling Unitary | New | building | 21,208 | 1.1% | 0.01 | 10 | \$100 | 13% | 1.0 |
| DLC | Automated control system | Manual Controls | Warehouse | Cooling Unitary | Existing | building | 21,208 | 17% | 0.2 | 15 | \$23,218 | 51% | 0.1 |
| DLC | Automated control system | Manual Controls | Warehouse | Cooling Unitary | New | building | 21,208 | 17% | 0.2 | 15 | \$23,218 | 94% | 0.1 |
| DLC | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Warehouse | Cooling Unitary | Existing | building | 21,208 | 5.9% | 0.06 | 15 | \$27,901 | 71% | 0.0 |
| DLC | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Warehouse | Cooling Unitary | New | building | 21,208 | 3.7% | 0.04 | 15 | \$26,520 | 94% | 0.0 |
| DLC | Duct Insulation, Add R8 | No Insulation | Warehouse | Cooling Unitary | Existing | building | 21,208 | 1.4% | 0.04 | 15 | \$168 | 20% | 1.3 |
| DLC | Duct Insulation, Add R8 | No Insulation | Warehouse | Cooling Unitary | New | building | 21,208 | 1.4% | 0.04 | 15 | \$168 | 10% | 1.3 |
| DLC | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Warehouse | Cooling Unitary | Existing | building | 11,664 | 13% | 0.1 | 1 | \$112 | 73% | 0.6 |
| DLC | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Warehouse | Cooling Unitary | New | building | 11,664 | 13% | 0.1 | 1 | \$112 | 73% | 0.6 |
| DLC | ECM Motors for split systems | Std Shaded Pole Motor | Warehouse | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 35% | 3.2 |
| DLC | ECM Motors for split systems | Std Shaded Pole Motor | Warehouse | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 35% | 3.2 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Warehouse | Cooling Unitary | Existing | building | 21,208 | 7.1% | 0.07 | 15 | \$94,074 | 25% | 0.0 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Warehouse | Cooling Unitary | New | building | 21,208 | 7.1% | 0.07 | 15 | \$94,074 | 35% | 0.0 |
| DLC | Hi Eff HVAC System Design | No HVAC Design | Warehouse | Cooling Unitary | New | building | 21,208 | 12% | 0.1 | 10 | \$10,177 | 51% | 0.1 |
| DLC | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Warehouse | Cooling Unitary | Existing | building | 21,208 | 5.0% | 0.05 | 5 | \$225 | 59% | 0.9 |
| DLC | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Warehouse | Cooling Unitary | Existing | building | 21,208 | 0.7% | 0.05 | 5 | \$225 | 51% | 0.2 |
| DLC | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Warehouse | Cooling Unitary | New | building | 21,208 | 0.6% | 0.05 | 5 | \$135 | 51% | 0.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|--|-----------|-----------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Warehouse | Cooling Unitary | Existing | building | 21,208 | 1.1% | 0.01 | 10 | \$45,236 | 86% | 0.0 |
| DLC | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Warehouse | Cooling Unitary | New | building | 21,208 | 1.1% | 0.01 | 10 | \$45,236 | 86% | 0.0 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) | Warehouse | Cooling Unitary | Existing | building | 21,208 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.7 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Warehouse | Cooling Unitary | New | building | 21,208 | 1.7% | 0.02 | 11 | \$146 | 49% | 1.2 |
| DLC | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Warehouse | Cooling Unitary | Early | unit | 180 | 19% | 0.08 | 15 | \$849 | 80% | 0.1 |
| DLC | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Warehouse | Cooling Unitary | New | unit | 182 | 20% | 0.08 | 15 | \$356 | 80% | 0.3 |
| DLC | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Warehouse | Cooling Unitary | ROB | unit | 182 | 20% | 0.08 | 15 | \$356 | 80% | 0.3 |
| DLC | Re-Commissioning (Existing Construction) | No Re-Commissioning | Warehouse | Cooling Unitary | Existing | building | 21,208 | 16% | 0.2 | 5 | \$8,619 | 86% | 0.1 |
| DLC | Room AC (w/ louvered sides) | Existing efficiency Room AC in Pennsylvania (2000 Federal Standards) | Warehouse | Cooling Unitary | Early | ton | 2,384 | 13% | 0.1 | 9 | \$348 | 78% | 0.5 |
| DLC | Room AC (w/ louvered sides) | Std Room AC (Code Min. Federal Standards) | Warehouse | Cooling Unitary | New | ton | 2,161 | 4.5% | 0.03 | 9 | \$17 | 78% | 3.2 |
| DLC | Room AC (w/ louvered sides) | Std Room AC (Code Min. Federal Standards) | Warehouse | Cooling Unitary | ROB | ton | 2,161 | 4.5% | 0.03 | 9 | \$17 | 78% | 3.2 |
| DLC | Wall Insualtions (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Warehouse | Cooling Unitary | Existing | building | 21,208 | 19% | 0.2 | 15 | \$6,551 | 26% | 0.4 |
| DLC | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Warehouse | Cooling Unitary | New | building | 21,208 | 0.6% | 0.01 | 15 | \$5,025 | 94% | 0.0 |
| DLC | 80W Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Warehouse | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 0% | 0.2 |
| DLC | 80W Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Warehouse | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| DLC | 80W Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Warehouse | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| DLC | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Warehouse | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 1.2 |
| DLC | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Warehouse | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.7 |
| DLC | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Warehouse | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.7 |
| DLC | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Warehouse | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 48% | 0.3 |
| DLC | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Warehouse | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 48% | 0.2 |
| DLC | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Warehouse | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 48% | 3.1 |
| DLC | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Warehouse | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 48% | 2.3 |
| DLC | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Warehouse | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 48% | 3.1 |
| DLC | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Warehouse | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 48% | 2.3 |
| DLC | Photocell Controls (Outdoor) | Lighting w/ No Controls | Warehouse | Ext. Lighting | Existing | building | 148 | 28% | 0.3 | 8 | \$3,718 | 88% | 0.0 |
| DLC | Photocell Controls (Outdoor) | Lighting w/ No Controls | Warehouse | Ext. Lighting | New | building | 148 | 28% | 0.3 | 8 | \$3,718 | 0% | 0.0 |
| DLC | Adding reflective roof treatment | Std color roof | Warehouse | Heat Pump | Existing | building | 2,164 | 6.9% | 0.07 | 6 | \$20,110 | 82% | 0.0 |
| DLC | Adding reflective roof treatment | Std color roof | Warehouse | Heat Pump | New | building | 2,164 | 6.9% | 0.07 | 6 | \$20,110 | 82% | 0.0 |
| DLC | Adding window shade film | No shade film | Warehouse | Heat Pump | Existing | building | 2,164 | 3.9% | 0.4 | 10 | \$26 | 12% | 11.2 |
| DLC | Adding window shade film | No shade film | Warehouse | Heat Pump | New | building | 2,164 | 3.9% | 0.4 | 10 | \$26 | 12% | 11.2 |
| DLC | Adding window shade screen | No shade screen | Warehouse | Heat Pump | Existing | building | 2,164 | 0.3% | 0.01 | 10 | \$3.4 | 12% | 2.9 |
| DLC | Adding window shade screen | No shade screen | Warehouse | Heat Pump | New | building | 2,164 | 0.3% | 0.01 | 10 | \$3.4 | 12% | 2.9 |
| DLC | Automated control system | Manual Controls | Warehouse | Heat Pump | Existing | building | 2,164 | 17% | 0.2 | 15 | \$2,369 | 51% | 0.2 |
| DLC | Automated control system | Manual Controls | Warehouse | Heat Pump | New | building | 2,164 | 17% | 0.2 | 15 | \$2,369 | 94% | 0.2 |
| DLC | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Warehouse | Heat Pump | Existing | building | 2,164 | 5.9% | 0.06 | 15 | \$27,901 | 71% | 0.0 |
| DLC | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Warehouse | Heat Pump | New | building | 2,164 | 3.7% | 0.04 | 15 | \$26,520 | 94% | 0.0 |
| DLC | Duct Insulation, Add R8 | No Insulation | Warehouse | Heat Pump | Existing | building | 2,164 | 4.0% | 0.04 | 15 | \$17 | 12% | 5.3 |
| DLC | Duct Insulation, Add R8 | No Insulation | Warehouse | Heat Pump | New | building | 2,164 | 4.0% | 0.04 | 15 | \$17 | 6% | 5.3 |
| DLC | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Warehouse | Heat Pump | Early | heat pump | 2,875 | 14% | 0.03 | 15 | \$4,070 | 83% | 0.1 |
| DLC | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Warehouse | Heat Pump | New | heat pump | 2,672 | 7.5% | 0.02 | 15 | \$1,097 | 83% | 0.1 |
| DLC | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Warehouse | Heat Pump | ROB | heat pump | 2,672 | 7.5% | 0.02 | 15 | \$1,097 | 83% | 0.1 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Warehouse | Heat Pump | Existing | building | 2,164 | 7.0% | 0.07 | 15 | \$9,599 | 25% | 0.0 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Warehouse | Heat Pump | New | building | 2,164 | 7.0% | 0.07 | 15 | \$9,599 | 35% | 0.0 |
| DLC | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Warehouse | Heat Pump | Early | heat pump | 30,914 | 22% | 0.6 | 15 | \$91,117 | 19% | 0.1 |
| DLC | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Warehouse | Heat Pump | New | heat pump | 29,192 | 17% | 0.4 | 15 | \$33,927 | 19% | 0.1 |
| DLC | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Warehouse | Heat Pump | ROB | heat pump | 29,192 | 17% | 0.4 | 15 | \$33,927 | 19% | 0.1 |
| DLC | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Warehouse | Heat Pump | Early | heat pump | 30,914 | 22% | 0.6 | 15 | \$58,356 | 19% | 0.1 |
| DLC | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Warehouse | Heat Pump | New | heat pump | 29,192 | 17% | 0.4 | 15 | \$1,167 | 19% | 3.0 |
| DLC | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Warehouse | Heat Pump | ROB | heat pump | 29,192 | 17% | 0.4 | 15 | \$1,167 | 19% | 3.0 |
| DLC | Hi Eff HVAC System Design | No HVAC Design | Warehouse | Heat Pump | New | building | 2,164 | 12% | 0.1 | 10 | \$126,024 | 51% | 0.0 |
| DLC | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Warehouse | Heat Pump | Early | heat pump | 7,668 | 19% | 0.1 | 12 | \$4,298 | 81% | 0.2 |
| DLC | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Warehouse | Heat Pump | New | heat pump | 7,126 | 13% | 0.08 | 12 | \$852 | 81% | 0.6 |
| DLC | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Warehouse | Heat Pump | ROB | heat pump | 7,126 | 13% | 0.08 | 12 | \$852 | 81% | 0.6 |
| DLC | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Warehouse | Heat Pump | Existing | building | 2,164 | 5.0% | 0.01 | 5 | \$90 | 51% | 0.3 |
| DLC | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Warehouse | Heat Pump | New | building | 2,164 | 5.0% | 0.01 | 5 | \$90 | 51% | 0.3 |
| DLC | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Warehouse | Heat Pump | Existing | building | 2,164 | 1.1% | 0.01 | 10 | \$40,275 | 81% | 0.0 |
| DLC | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Warehouse | Heat Pump | New | building | 2,164 | 1.1% | 0.01 | 10 | \$40,275 | 81% | 0.0 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Warehouse | Heat Pump | Existing | building | 2,164 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|---|-----------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Warehouse | Heat Pump | New | building | 2,164 | 2.1% | 0.02 | 11 | \$146 | 49% | 0.2 |
| DLC | Re-Commissioning (Existing Construction) | No Re-Commissioning | Warehouse | Heat Pump | Existing | building | 2,164 | 16% | 0.2 | 5 | \$8,619 | 86% | 0.0 |
| DLC | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Warehouse | Heat Pump | New | measure | 290,645 | 2.0% | 0.7 | 13 | \$36,589 | 43% | 0.1 |
| DLC | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Warehouse | Heat Pump | ROB | measure | 290,645 | 2.0% | 0.7 | 13 | \$36,589 | 43% | 0.1 |
| DLC | Wall Insualtions (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Warehouse | Heat Pump | Existing | building | 2,164 | 19% | 0.2 | 15 | \$6,551 | 26% | 0.1 |
| DLC | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Warehouse | Heat Pump | New | building | 2,164 | 0.6% | 0.01 | 15 | \$5,025 | 94% | 0.0 |
| DLC | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Warehouse | Heat Pump | Early | heat pump | 11,656 | 27% | 0.3 | 15 | \$35,347 | 28% | 0.1 |
| DLC | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Warehouse | Heat Pump | New | heat pump | 10,677 | 20% | 0.2 | 15 | \$15,739 | 28% | 0.1 |
| DLC | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Warehouse | Heat Pump | ROB | heat pump | 10,677 | 20% | 0.2 | 15 | \$15,739 | 28% | 0.1 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | Early | Fixture | 536 | 9.6% | 0.01 | 13 | \$850 | 39% | 0.0 |
| DLC | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Warehouse | High Bay Lighting | Early | Fixture | 535 | 9.5% | 0.01 | 13 | \$850 | 28% | 0.0 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Warehouse | High Bay Lighting | Early | Fixture | 827 | 41% | 0.08 | 13 | \$850 | 36% | 0.3 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | New | Fixture | 407 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Warehouse | High Bay Lighting | New | Fixture | 379 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Warehouse | High Bay Lighting | New | Fixture | 628 | 41% | 0.06 | 13 | \$397 | 36% | 0.5 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 536 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 499 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| DLC | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 827 | 41% | 0.08 | 13 | \$397 | 36% | 0.6 |
| DLC | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | Early | Fixture | 1,040 | 19% | 0.05 | 13 | \$851 | 38% | 0.2 |
| DLC | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Warehouse | High Bay Lighting | Early | Fixture | 1,053 | 20% | 0.05 | 13 | \$851 | 38% | 0.2 |
| DLC | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | Early | Fixture | 3,064 | 73% | 0.5 | 13 | \$851 | 38% | 1.9 |
| DLC | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | New | Fixture | 791 | 19% | 0.03 | 13 | \$372 | 38% | 0.3 |
| DLC | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | New | Fixture | 2,329 | 73% | 0.4 | 13 | \$383 | 38% | 3.2 |
| DLC | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 1,040 | 19% | 0.05 | 13 | \$372 | 38% | 0.4 |
| DLC | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 3,064 | 73% | 0.5 | 13 | \$383 | 38% | 4.2 |
| DLC | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | Early | Fixture | 1,040 | 25% | 0.06 | 13 | \$554 | 29% | 0.3 |
| DLC | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Warehouse | High Bay Lighting | Early | Fixture | 1,021 | 23% | 0.05 | 13 | \$554 | 28% | 0.3 |
| DLC | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | Early | Fixture | 3,064 | 74% | 0.5 | 13 | \$554 | 36% | 3.0 |
| DLC | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | New | Fixture | 791 | 25% | 0.04 | 13 | \$75 | 29% | 1.9 |
| DLC | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | New | Fixture | 2,329 | 74% | 0.4 | 13 | \$86 | 36% | 14.6 |
| DLC | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 1,040 | 25% | 0.06 | 13 | \$75 | 29% | 2.5 |
| DLC | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 3,064 | 74% | 0.5 | 13 | \$86 | 36% | 19.2 |
| DLC | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Warehouse | High Bay Lighting | Early | Fixture | 271 | 0.2% | 0.00 | 13 | \$835 | 38% | 0.0 |
| DLC | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Warehouse | High Bay Lighting | Early | Fixture | 584 | 54% | 0.07 | 13 | \$835 | 38% | 0.3 |
| DLC | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Warehouse | High Bay Lighting | New | Fixture | 444 | 54% | 0.05 | 13 | \$382 | 38% | 0.5 |
| DLC | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 584 | 54% | 0.07 | 13 | \$382 | 38% | 0.6 |
| DLC | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | Early | Fixture | 1,325 | 18% | 0.05 | 13 | \$487 | 25% | 0.4 |
| DLC | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Warehouse | High Bay Lighting | Early | Fixture | 1,386 | 22% | 0.07 | 13 | \$487 | 28% | 0.5 |
| DLC | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | Early | Fixture | 3,064 | 65% | 0.4 | 13 | \$487 | 36% | 2.9 |
| DLC | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | New | Fixture | 1,007 | 18% | 0.04 | 13 | \$16 | 25% | 8.2 |
| DLC | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | New | Fixture | 2,329 | 65% | 0.3 | 13 | \$18 | 36% | 59.2 |
| DLC | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 1,325 | 18% | 0.05 | 13 | \$16 | 25% | 10.8 |
| DLC | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 3,064 | 65% | 0.4 | 13 | \$18 | 36% | 77.9 |
| DLC | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | Early | Fixture | 1,325 | 1.5% | 0.00 | 13 | \$557 | 19% | 0.0 |
| DLC | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Warehouse | High Bay Lighting | Early | Fixture | 1,364 | 4.3% | 0.01 | 13 | \$557 | 19% | 0.1 |
| DLC | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | Early | Fixture | 3,064 | 57% | 0.4 | 13 | \$557 | 19% | 2.3 |
| DLC | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | New | Fixture | 1,007 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| DLC | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | New | Fixture | 2,329 | 57% | 0.3 | 13 | \$88 | 19% | 11.0 |
| DLC | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 1,325 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.2 |
| DLC | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 3,064 | 57% | 0.4 | 13 | \$88 | 19% | 14.4 |
| DLC | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Warehouse | High Bay Lighting | Early | Fixture | 563 | 29% | 0.03 | 13 | \$492 | 71% | 0.2 |
| DLC | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | Early | Fixture | 471 | 15% | 0.01 | 13 | \$492 | 95% | 0.1 |
| DLC | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Warehouse | High Bay Lighting | Early | Fixture | 699 | 43% | 0.05 | 13 | \$492 | 95% | 0.4 |
| DLC | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Warehouse | High Bay Lighting | Early | Fixture | 648 | 38% | 0.04 | 13 | \$492 | 95% | 0.3 |
| DLC | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | New | Fixture | 358 | 15% | 0.01 | 13 | \$25 | 95% | 1.4 |
| DLC | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Warehouse | High Bay Lighting | New | Fixture | 531 | 43% | 0.04 | 13 | \$51 | 95% | 2.9 |
| DLC | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 471 | 15% | 0.01 | 13 | \$25 | 95% | 1.9 |
| DLC | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 699 | 43% | 0.05 | 13 | \$51 | 95% | 3.9 |
| DLC | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Warehouse | High Bay Lighting | Early | lamp | 77 | 16% | 0.00 | 14 | \$7.7 | 99% | 1.3 |
| DLC | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Warehouse | High Bay Lighting | New | lamp | 46 | 13% | 0.00 | 14 | \$1.6 | 91% | 2.8 |
| DLC | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Warehouse | High Bay Lighting | ROB | lamp | 74 | 13% | 0.00 | 14 | \$1.6 | 91% | 4.5 |
| DLC | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | Early | Fixture | 3,135 | 23% | 0.2 | 13 | \$613 | 5% | 0.8 |
| DLC | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Warehouse | High Bay Lighting | Early | Fixture | 2,463 | 1.6% | 0.01 | 13 | \$613 | 28% | 0.0 |
| DLC | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | Early | Fixture | 6,128 | 60% | 0.8 | 13 | \$613 | 18% | 4.4 |
| DLC | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | New | Fixture | 2,383 | 23% | 0.1 | 13 | \$96 | 5% | 4.1 |
| DLC | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 3,135 | 23% | 0.2 | 13 | \$96 | 5% | 5.4 |
| DLC | 85W Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | Early | Fixture | 3,135 | 92% | 0.7 | 13 | \$1,916 | 95% | 1.1 |
| DLC | 85W Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | Early | Fixture | 6,128 | 96% | 1.3 | 13 | \$1,916 | 95% | 2.2 |
| DLC | 85W Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | New | Fixture | 2,383 | 92% | 0.5 | 13 | \$1,468 | 95% | 1.1 |
| DLC | 85W Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | New | Fixture | 4,658 | 96% | 1.0 | 13 | \$1,149 | 95% | 2.8 |
| DLC | 85W Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 3,135 | 92% | 0.7 | 13 | \$1,468 | 95% | 1.4 |
| DLC | 85W Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 6,128 | 96% | 1.3 | 13 | \$1,149 | 95% | 3.7 |
| DLC | Auto Off Time Switch | Lighting w/ No Controls | Warehouse | High Bay Lighting | Existing | building | 7,760 | 24% | 0.2 | 8 | \$755 | 13% | 0.9 |
| DLC | Auto Off Time Switch | Lighting w/ No Controls | Warehouse | High Bay Lighting | New | building | 7,760 | 6.9% | 0.07 | 8 | \$755 | 0% | 0.3 |
| DLC | Central Lighting Control System | Lighting w/ No Controls | Warehouse | High Bay Lighting | Existing | building | 7,760 | 38% | 0.4 | 8 | \$755 | 13% | 1.4 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|--|-----------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Central Lighting Control System | Lighting w/ No Controls | Warehouse | High Bay Lighting | New | building | 7,760 | 14% | 0.1 | 8 | \$755 | 13% | 0.5 |
| DLC | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Warehouse | High Bay Lighting | New | building | 7,760 | 10% | 0.1 | 15 | \$31,316 | 32% | 0.0 |
| DLC | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Warehouse | High Bay Lighting | New | building | 7,760 | 15% | 0.2 | 15 | \$78,291 | 32% | 0.0 |
| DLC | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Warehouse | High Bay Lighting | New | building | 7,760 | 30% | 0.3 | 15 | \$112,217 | 32% | 0.0 |
| DLC | Indoor Daylight Sensors | Lighting w/ No Controls | Warehouse | High Bay Lighting | Existing | building | 7,760 | 28% | 0.3 | 8 | \$3,718 | 13% | 0.2 |
| DLC | Indoor Daylight Sensors | Lighting w/ No Controls | Warehouse | High Bay Lighting | New | building | 7,760 | 4.1% | 0.04 | 8 | \$3,718 | 0% | 0.0 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 365 W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | Early | Fixture | 1,040 | 67% | 0.2 | 13 | \$960 | 95% | 0.5 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 1075 W Mercury Vapor Fixture | Warehouse | High Bay Lighting | Early | Fixture | 3,064 | 89% | 0.6 | 13 | \$960 | 95% | 2.0 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 295 W Metal Halide Fixture | Warehouse | High Bay Lighting | Early | Fixture | 841 | 59% | 0.1 | 13 | \$960 | 95% | 0.4 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 365 W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | New | Fixture | 791 | 67% | 0.1 | 13 | \$480 | 95% | 0.8 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 1075 W Mercury Vapor Fixture | Warehouse | High Bay Lighting | New | Fixture | 2,329 | 89% | 0.5 | 13 | \$491 | 95% | 3.0 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 295 W Metal Halide Fixture | Warehouse | High Bay Lighting | New | Fixture | 639 | 59% | 0.08 | 13 | \$406 | 95% | 0.7 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 365 W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 1,040 | 67% | 0.2 | 13 | \$480 | 95% | 1.0 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 1075 W Mercury Vapor Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 3,064 | 89% | 0.6 | 13 | \$491 | 95% | 4.0 |
| DLC | LED Overhead High Bay Lighting Fixture (122W) | One 295 W Metal Halide Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 841 | 59% | 0.1 | 13 | \$406 | 95% | 0.9 |
| DLC | Occupancy Sensor | Lighting w/ No Controls | Warehouse | High Bay Lighting | Existing | building | 7,760 | 24% | 0.2 | 8 | \$1,138 | 12% | 0.6 |
| DLC | Occupancy Sensor | Lighting w/ No Controls | Warehouse | High Bay Lighting | New | building | 7,760 | 6.9% | 0.07 | 8 | \$1,138 | 0% | 0.2 |
| DLC | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Warehouse | High Bay Lighting | Existing | building | 7,760 | 28% | 0.3 | 8 | \$3,718 | 12% | 0.2 |
| DLC | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Warehouse | High Bay Lighting | New | building | 7,760 | 4.0% | 0.04 | 8 | \$3,718 | 0% | 0.0 |
| DLC | Time Clock Control | Lighting w/ No Controls | Warehouse | High Bay Lighting | Existing | building | 7,760 | 28% | 0.3 | 8 | \$755 | 13% | 1.1 |
| DLC | Time Clock Control | Lighting w/ No Controls | Warehouse | High Bay Lighting | New | building | 7,760 | 4.0% | 0.04 | 8 | \$755 | 0% | 0.2 |
| DLC | Auto Off Time Switch | Lighting w/ No Controls | Warehouse | Lin. Fluor. Lighting | Existing | building | 4,098 | 24% | 0.2 | 8 | \$755 | 13% | 0.6 |
| DLC | Auto Off Time Switch | Lighting w/ No Controls | Warehouse | Lin. Fluor. Lighting | New | building | 4,098 | 6.9% | 0.07 | 8 | \$755 | 0% | 0.2 |
| DLC | Central Lighting Control System | Lighting w/ No Controls | Warehouse | Lin. Fluor. Lighting | Existing | building | 4,098 | 38% | 0.4 | 8 | \$755 | 12% | 0.9 |
| DLC | Central Lighting Control System | Lighting w/ No Controls | Warehouse | Lin. Fluor. Lighting | New | building | 4,098 | 14% | 0.1 | 8 | \$755 | 12% | 0.3 |
| DLC | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Warehouse | Lin. Fluor. Lighting | New | building | 4,098 | 10% | 0.1 | 15 | \$31,316 | 32% | 0.0 |
| DLC | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Warehouse | Lin. Fluor. Lighting | New | building | 4,098 | 15% | 0.2 | 15 | \$78,291 | 32% | 0.0 |
| DLC | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Warehouse | Lin. Fluor. Lighting | New | building | 4,098 | 30% | 0.3 | 15 | \$112,217 | 32% | 0.0 |
| DLC | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Warehouse | Lin. Fluor. Lighting | Early | Lamp | 155 | 38% | 0.01 | 14 | \$7.3 | 94% | 6.0 |
| DLC | Indoor Daylight Sensors | Lighting w/ No Controls | Warehouse | Lin. Fluor. Lighting | Existing | building | 4,098 | 28% | 0.3 | 8 | \$3,718 | 13% | 0.1 |
| DLC | Indoor Daylight Sensors | Lighting w/ No Controls | Warehouse | Lin. Fluor. Lighting | New | building | 4,098 | 4.1% | 0.04 | 8 | \$3,718 | 0% | 0.0 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 28W T8 Lamp, Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | Early | Lamp | 68 | 19% | 0.00 | 15 | \$35 | 94% | 0.3 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 40W T12 Lamp, Magnetic Ballast | Warehouse | Lin. Fluor. Lighting | Early | Lamp | 149 | 63% | 0.02 | 15 | \$35 | 94% | 2.2 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 28W T5 Lamp, Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | Early | Lamp | 84 | 34% | 0.01 | 15 | \$35 | 94% | 0.7 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 32W T8 Lamp, Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | Early | Lamp | 81 | 32% | 0.01 | 15 | \$35 | 94% | 0.6 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 28W T8 Lamp, Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | New | Lamp | 52 | 19% | 0.00 | 15 | \$28 | 94% | 0.3 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 32W T8 Lamp, Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | New | Lamp | 62 | 32% | 0.00 | 15 | \$29 | 94% | 0.6 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 28W T5 Lamp, Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | New | Lamp | 64 | 34% | 0.00 | 15 | \$22 | 94% | 0.8 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 32W T8 Lamp, Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | New | Lamp | 62 | 32% | 0.00 | 15 | \$29 | 94% | 0.6 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 28W T8 Lamp, Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | ROB | Lamp | 68 | 19% | 0.00 | 15 | \$28 | 94% | 0.4 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 32W T8 Lamp, Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | ROB | Lamp | 81 | 32% | 0.01 | 15 | \$29 | 94% | 0.7 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 28W T5 Lamp, Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | ROB | Lamp | 84 | 34% | 0.01 | 15 | \$22 | 94% | 1.1 |
| DLC | LED Retrofit Linear Fluorescent Lamp (21W) | One 32W T8 Lamp, Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | ROB | Lamp | 81 | 32% | 0.01 | 15 | \$29 | 94% | 0.7 |
| DLC | Occupancy Sensor | Lighting w/ No Controls | Warehouse | Lin. Fluor. Lighting | Existing | building | 4,098 | 24% | 0.2 | 8 | \$1,138 | 13% | 0.4 |
| DLC | Occupancy Sensor | Lighting w/ No Controls | Warehouse | Lin. Fluor. Lighting | New | building | 4,098 | 7.0% | 0.07 | 8 | \$1,138 | 0% | 0.1 |
| DLC | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Warehouse | Lin. Fluor. Lighting | Existing | building | 4,098 | 28% | 0.3 | 8 | \$3,718 | 12% | 0.1 |
| DLC | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Warehouse | Lin. Fluor. Lighting | New | building | 4,098 | 4.1% | 0.04 | 8 | \$3,718 | 0% | 0.0 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 40W T12 w/ Magnetic Ballast | Warehouse | Lin. Fluor. Lighting | Early | Lamp | 155 | 54% | 0.02 | 14 | \$9.1 | 94% | 6.9 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | Early | Lamp | 99 | 28% | 0.01 | 14 | \$9.1 | 24% | 2.3 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | Early | Lamp | 96 | 26% | 0.00 | 14 | \$9.1 | 94% | 2.0 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | New | Lamp | 73 | 26% | 0.00 | 14 | \$2.5 | 94% | 5.6 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | New | Lamp | 73 | 26% | 0.00 | 14 | \$2.5 | 94% | 5.6 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | New | Lamp | 75 | 28% | 0.00 | 14 | \$2.5 | 24% | 6.3 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | New | Lamp | 73 | 26% | 0.00 | 14 | \$2.5 | 94% | 5.6 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | ROB | Lamp | 96 | 26% | 0.00 | 14 | \$2.5 | 94% | 7.4 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | ROB | Lamp | 96 | 26% | 0.00 | 14 | \$2.5 | 94% | 7.4 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | ROB | Lamp | 99 | 28% | 0.01 | 14 | \$2.5 | 24% | 8.3 |
| DLC | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | ROB | Lamp | 96 | 26% | 0.00 | 14 | \$2.5 | 94% | 7.4 |
| DLC | T8 Lamp (any length) Electronic Ballast | Standard T12 lamp (any length) | Warehouse | Lin. Fluor. Lighting | Early | Lamp | 182 | 42% | 0.01 | 14 | \$14 | 94% | 4.1 |
| DLC | Time Clock Control | Lighting w/ No Controls | Warehouse | Lin. Fluor. Lighting | Existing | building | 4,098 | 28% | 0.3 | 8 | \$755 | 14% | 0.7 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|--|-----------|---------|---------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | New | motor | 142,796 | 0.5% | 0.10 | 15 | \$431 | 70% | 1.3 |
| DLC | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | New | motor | 142,796 | 0.5% | 0.10 | 15 | \$431 | 70% | 1.3 |
| DLC | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | New | motor | 142,796 | 0.5% | 0.10 | 15 | \$431 | 70% | 1.3 |
| DLC | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | New | motor | 142,796 | 0.5% | 0.1 | 15 | \$431 | 70% | 1.3 |
| DLC | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | New | motor | 142,796 | 0.5% | 0.09 | 15 | \$431 | 70% | 1.3 |
| DLC | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | ROB | motor | 142,796 | 0.5% | 0.10 | 15 | \$431 | 70% | 1.3 |
| DLC | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | ROB | motor | 142,796 | 0.5% | 0.10 | 15 | \$431 | 70% | 1.3 |
| DLC | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | ROB | motor | 142,796 | 0.5% | 0.10 | 15 | \$431 | 70% | 1.3 |
| DLC | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | ROB | motor | 142,796 | 0.5% | 0.09 | 15 | \$431 | 70% | 1.2 |
| DLC | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | Early | motor | 19,090 | 2.9% | 0.07 | 15 | \$802 | 83% | 0.5 |
| DLC | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | Early | motor | 19,090 | 2.9% | 0.07 | 15 | \$802 | 83% | 0.5 |
| DLC | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | Early | motor | 19,090 | 2.9% | 0.07 | 15 | \$802 | 83% | 0.5 |
| DLC | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | Early | motor | 19,090 | 2.9% | 0.08 | 15 | \$802 | 83% | 0.5 |
| DLC | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | Early | motor | 19,090 | 2.9% | 0.07 | 15 | \$802 | 83% | 0.5 |
| DLC | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | New | motor | 18,634 | 0.5% | 0.01 | 15 | \$123 | 83% | 0.6 |
| DLC | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | New | motor | 18,634 | 0.5% | 0.01 | 15 | \$123 | 83% | 0.6 |
| DLC | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | New | motor | 18,634 | 0.5% | 0.01 | 15 | \$123 | 83% | 0.6 |
| DLC | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | New | motor | 18,634 | 0.5% | 0.01 | 15 | \$123 | 83% | 0.6 |
| DLC | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | ROB | motor | 18,634 | 0.5% | 0.01 | 15 | \$123 | 83% | 0.6 |
| DLC | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | ROB | motor | 18,634 | 0.5% | 0.01 | 15 | \$123 | 83% | 0.6 |
| DLC | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | ROB | motor | 18,634 | 0.5% | 0.01 | 15 | \$123 | 83% | 0.6 |
| DLC | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | ROB | motor | 18,634 | 0.5% | 0.01 | 15 | \$123 | 83% | 0.6 |
| DLC | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | ROB | motor | 18,634 | 0.5% | 0.01 | 15 | \$123 | 83% | 0.6 |
| DLC | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | ROB | motor | 18,634 | 0.5% | 0.01 | 15 | \$123 | 83% | 0.6 |
| DLC | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | ROB | motor | 18,634 | 0.5% | 0.01 | 15 | \$123 | 83% | 0.6 |
| DLC | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | ROB | motor | 18,634 | 0.5% | 0.01 | 15 | \$123 | 83% | 0.6 |
| DLC | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | Early | motor | 179,979 | 1.3% | 0.3 | 15 | \$3,955 | 61% | 0.4 |
| DLC | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | Early | motor | 179,979 | 1.3% | 0.3 | 15 | \$3,955 | 61% | 0.4 |
| DLC | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | Early | motor | 179,979 | 1.3% | 0.3 | 15 | \$3,955 | 61% | 0.4 |
| DLC | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | Early | motor | 179,979 | 1.3% | 0.4 | 15 | \$3,955 | 61% | 0.5 |
| DLC | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | Early | motor | 179,979 | 1.3% | 0.3 | 15 | \$3,955 | 61% | 0.4 |
| DLC | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | New | motor | 178,495 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.2 |
| DLC | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | New | motor | 178,495 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.2 |
| DLC | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | New | motor | 178,495 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.2 |
| DLC | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | New | motor | 178,495 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.2 |
| DLC | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | ROB | motor | 178,495 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.2 |
| DLC | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | ROB | motor | 178,495 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.2 |
| DLC | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | ROB | motor | 178,495 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.2 |
| DLC | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | ROB | motor | 178,495 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.2 |
| DLC | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | ROB | motor | 178,495 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.2 |
| DLC | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | ROB | motor | 178,495 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.2 |
| DLC | ASD HVAC Fan | Std. HVAC Fan | Warehouse | Motors | New | measure | 2,003 | 9.1% | 0.02 | 15 | \$3,702 | 85% | 0.0 |
| DLC | ASD HVAC Fan | Std. HVAC Fan | Warehouse | Motors | ROB | measure | 2,003 | 9.1% | 0.02 | 15 | \$3,702 | 85% | 0.0 |
| DLC | Downsizing motor during retrofit | Larger hp standard motor | Warehouse | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 25.0 |
| DLC | Downsizing motor during retrofit | Larger hp standard motor | Warehouse | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 25.8 |
| DLC | Downsizing motor during retrofit | Larger hp standard motor | Warehouse | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 25.9 |
| DLC | Downsizing motor during retrofit | Larger hp standard motor | Warehouse | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 26.3 |
| DLC | Downsizing motor during retrofit | Larger hp standard motor | Warehouse | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 27.4 |
| DLC | Downsizing motor during retrofit | Larger hp standard motor | Warehouse | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 25.2 |
| DLC | Downsizing motor during retrofit | Larger hp standard motor | Warehouse | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 25.7 |
| DLC | Downsizing motor during retrofit | Larger hp standard motor | Warehouse | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 26.0 |
| DLC | Downsizing motor during retrofit | Larger hp standard motor | Warehouse | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 26.4 |
| DLC | Downsizing motor during retrofit | Larger hp standard motor | Warehouse | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 27.4 |
| DLC | Escalator Motor Controller | Constant power control | Warehouse | Motors | New | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 67% | 7.0 |
| DLC | Escalator Motor Controller | Constant power control | Warehouse | Motors | ROB | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 67% | 7.0 |
| DLC | Variable Speed Drive Control, 15HP | Existing Motors w/out VSD Drive | Warehouse | Motors | Early | motor | 37,268 | 70% | 3.8 | 15 | \$731 | 86% | 26.8 |
| DLC | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Warehouse | Motors | New | motor | 36,467 | 72% | 3.8 | 15 | \$731 | 86% | 26.8 |
| DLC | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Warehouse | Motors | ROB | motor | 36,467 | 72% | 3.8 | 15 | \$731 | 86% | 26.8 |
| DLC | Variable Speed Drive Control, 40HP | Existing Motors w/out VSD Drive | Warehouse | Motors | Early | motor | 97,245 | 71% | 10.1 | 15 | \$4,666 | 86% | 11.1 |
| DLC | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Warehouse | Motors | New | motor | 96,108 | 71% | 10.1 | 15 | \$4,666 | 86% | 11.1 |
| DLC | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Warehouse | Motors | ROB | motor | 96,108 | 72% | 10.1 | 15 | \$4,666 | 86% | 11.1 |
| DLC | Variable Speed Drive Control, 5HP | Existing Motors w/out VFD Drive | Warehouse | Motors | Early | motor | 12,920 | 71% | 1.4 | 15 | \$2,243 | 86% | 3.1 |
| DLC | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Warehouse | Motors | New | motor | 12,631 | 71% | 1.3 | 15 | \$2,243 | 86% | 3.0 |
| DLC | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Warehouse | Motors | ROB | motor | 12,631 | 71% | 1.3 | 15 | \$2,243 | 86% | 3.0 |
| DLC | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Warehouse | Motors | Early | motor | 3,717 | 30% | 0.1 | 15 | \$268 | 13% | 3.1 |
| DLC | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Warehouse | Motors | New | motor | 3,717 | 30% | 0.1 | 15 | \$268 | 13% | 3.1 |
| DLC | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Warehouse | Motors | ROB | motor | 3,717 | 30% | 0.1 | 15 | \$268 | 13% | 3.1 |
| DLC | VFD on Chilled Water Pump | Motor w/out VFD Drive | Warehouse | Motors | Early | motor | 16,590 | 55% | 2.7 | 15 | \$2,903 | 86% | 2.8 |
| DLC | VFD on Chilled Water Pump | Motor w/out VFD Drive | Warehouse | Motors | New | motor | 16,280 | 55% | 2.7 | 15 | \$2,843 | 86% | 2.8 |
| DLC | VFD on Chilled Water Pump | Motor w/out VFD Drive | Warehouse | Motors | ROB | motor | 16,280 | 55% | 2.7 | 15 | \$2,843 | 86% | 2.8 |
| DLC | VFD on Condenser Water Pump | Motor w/out VFD Drive | Warehouse | Motors | Early | motor | 18,641 | 32% | 3.2 | 15 | \$2,903 | 86% | 2.3 |
| DLC | VFD on Condenser Water Pump | Motor w/out VFD Drive | Warehouse | Motors | New | motor | 18,292 | 33% | 3.1 | 15 | \$2,843 | 86% | 2.3 |
| DLC | VFD on Condenser Water Pump | Motor w/out VFD Drive | Warehouse | Motors | ROB | motor | 18,292 | 33% | 3.1 | 15 | \$2,843 | 86% | 2.3 |
| DLC | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Warehouse | Motors | Early | motor | 27,718 | 56% | 0.00 | 15 | \$2,903 | 86% | 3.2 |
| DLC | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Warehouse | Motors | New | motor | 27,199 | 57% | 0.00 | 15 | \$2,843 | 86% | 3.3 |
| DLC | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Warehouse | Motors | ROB | motor | 27,199 | 57% | 0.00 | 15 | \$2,843 | 86% | 3.3 |
| DLC | VFD on HVAC Fan | Motor w/out VFD | Warehouse | Motors | Early | motor | 18,724 | 70% | 3.4 | 15 | \$2,903 | 86% | 3.9 |
| DLC | VFD on HVAC Fan | Motor w/out VFD | Warehouse | Motors | New | motor | 18,373 | 72% | 3.3 | 15 | \$2,843 | 86% | 3.9 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|--|-----------|---------------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | VFD on HVAC Fan | Motor w/out VFD | Warehouse | Motors | ROB | motor | 18,373 | 71% | 3.3 | 15 | \$2,843 | 86% | 3.9 |
| DLC | Elevators | Std. Eff Elevator | Warehouse | Other | ROB | measure | 89,016 | 0.3% | 0.00 | 15 | \$86 | 63% | 1.9 |
| DLC | Variable Speed Drives on Process Equipment | Constant speed control | Warehouse | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 9% | 11.6 |
| DLC | Variable Speed Drives on Process Equipment | Constant speed control | Warehouse | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 9% | 11.6 |
| DLC | 9W Exit Sign Retrofit: CFL replacing Incandescent | One 23W Single Sided Incandescent Exit Sign | Warehouse | Other Int. Lighting | Early | exit sign | 140 | 42% | 0.01 | 15 | \$48 | 22% | 0.9 |
| DLC | Auto Off Time Switch | Lighting w/ No Controls | Warehouse | Other Int. Lighting | Existing | building | 9,380 | 24% | 0.2 | 8 | \$755 | 13% | 1.1 |
| DLC | Auto Off Time Switch | Lighting w/ No Controls | Warehouse | Other Int. Lighting | New | building | 9,380 | 7.0% | 0.07 | 8 | \$755 | 0% | 0.3 |
| DLC | Central Lighting Control System | Lighting w/ No Controls | Warehouse | Other Int. Lighting | Existing | building | 9,380 | 38% | 0.4 | 8 | \$755 | 13% | 1.7 |
| DLC | Central Lighting Control System | Lighting w/ No Controls | Warehouse | Other Int. Lighting | New | building | 9,380 | 14% | 0.1 | 8 | \$755 | 13% | 0.6 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 40W Incandescent Bulb | Warehouse | Other Int. Lighting | Early | lamp | 157 | 87% | 0.03 | 10 | \$30 | 14% | 2.5 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Warehouse | Other Int. Lighting | Early | lamp | 112 | 81% | 0.02 | 10 | \$30 | 11% | 1.7 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Warehouse | Other Int. Lighting | New | lamp | 85 | 81% | 0.02 | 10 | \$21 | 14% | 1.8 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Warehouse | Other Int. Lighting | New | lamp | 85 | 81% | 0.02 | 10 | \$23 | 14% | 1.7 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Warehouse | Other Int. Lighting | New | lamp | 85 | 81% | 0.02 | 10 | \$22 | 11% | 1.7 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Warehouse | Other Int. Lighting | ROB | lamp | 112 | 81% | 0.02 | 10 | \$21 | 14% | 2.4 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Warehouse | Other Int. Lighting | ROB | lamp | 112 | 81% | 0.02 | 10 | \$23 | 14% | 2.2 |
| DLC | Cold Cathode Screw-In Bulb (8W) | 43W Incandescent Bulb | Warehouse | Other Int. Lighting | ROB | lamp | 112 | 81% | 0.02 | 10 | \$22 | 11% | 2.3 |
| DLC | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Warehouse | Other Int. Lighting | Early | lamp | 157 | 75% | 0.03 | 4 | \$73 | 24% | 0.3 |
| DLC | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Warehouse | Other Int. Lighting | New | fixture | 171 | 65% | 0.02 | 13 | \$29 | 28% | 2.8 |
| DLC | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Warehouse | Other Int. Lighting | New | lamp | 85 | 65% | 0.01 | 4 | \$29 | 28% | 0.4 |
| DLC | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Warehouse | Other Int. Lighting | ROB | fixture | 225 | 65% | 0.03 | 13 | \$29 | 24% | 3.7 |
| DLC | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Warehouse | Other Int. Lighting | ROB | lamp | 112 | 65% | 0.02 | 4 | \$29 | 24% | 0.6 |
| DLC | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Warehouse | Other Int. Lighting | Early | lamp | 157 | 75% | 0.03 | 4 | \$3.2 | 24% | 8.0 |
| DLC | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Warehouse | Other Int. Lighting | New | lamp | 85 | 65% | 0.01 | 4 | \$1.8 | 24% | 6.8 |
| DLC | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Warehouse | Other Int. Lighting | ROB | lamp | 112 | 65% | 0.02 | 4 | \$1.8 | 24% | 8.9 |
| DLC | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Warehouse | Other Int. Lighting | ROB | lamp | 112 | 65% | 0.02 | 4 | \$1.8 | 24% | 8.9 |
| DLC | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Warehouse | Other Int. Lighting | New | building | 9,380 | 10% | 0.1 | 15 | \$31,316 | 32% | 0.0 |
| DLC | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Warehouse | Other Int. Lighting | New | building | 9,380 | 15% | 0.2 | 15 | \$78,291 | 32% | 0.0 |
| DLC | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Warehouse | Other Int. Lighting | New | building | 9,380 | 30% | 0.3 | 15 | \$112,217 | 32% | 0.0 |
| DLC | Indoor Daylight Sensors | Lighting w/ No Controls | Warehouse | Other Int. Lighting | Existing | building | 9,380 | 28% | 0.3 | 8 | \$3,718 | 13% | 0.3 |
| DLC | Indoor Daylight Sensors | Lighting w/ No Controls | Warehouse | Other Int. Lighting | New | building | 9,380 | 4.1% | 0.04 | 8 | \$3,718 | 0% | 0.0 |
| DLC | LED Exit Signs Single-sided (5W) | Existing Single-Sided Exit Signs (Average: 16 W) | Warehouse | Other Int. Lighting | Early | sign | 153 | 87% | 0.02 | 15 | \$48 | 16% | 2.0 |
| DLC | LED Exit Signs Single-sided (5W) | One 9W Single-Sided CFL Exit Sign | Warehouse | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 2.2 |
| DLC | LED Exit Signs Single-sided (5W) | One 9W Single-Sided CFL Exit Sign | Warehouse | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 2.2 |
| DLC | LED Task Lighting/Screw-In (10W) | 1 15W CFL bulb | Warehouse | Other Int. Lighting | Early | lamp | 43 | 33% | 0.00 | 9 | \$9.6 | 24% | 0.7 |
| DLC | LED Task Lighting/Screw-In (10W) | 1 60W Incandescent Bulb | Warehouse | Other Int. Lighting | Early | lamp | 173 | 83% | 0.03 | 9 | \$9.6 | 24% | 7.2 |
| DLC | LED Task Lighting/Screw-In (10W) | 1 43W EISA Compliant bulb | Warehouse | Other Int. Lighting | New | lamp | 94 | 77% | 0.01 | 9 | \$7.9 | 24% | 4.4 |
| DLC | LED Task Lighting/Screw-In (10W) | 1 43W EISA Compliant bulb | Warehouse | Other Int. Lighting | New | lamp | 94 | 77% | 0.01 | 9 | \$7.9 | 24% | 4.4 |
| DLC | LED Task Lighting/Screw-In (10W) | 1 43W EISA Compliant bulb | Warehouse | Other Int. Lighting | ROB | lamp | 124 | 77% | 0.02 | 9 | \$7.9 | 24% | 5.8 |
| DLC | LED Task Lighting/Screw-In (10W) | 1 43W EISA Compliant bulb | Warehouse | Other Int. Lighting | ROB | lamp | 124 | 77% | 0.02 | 9 | \$7.9 | 24% | 5.8 |
| DLC | Occupancy Sensor | Lighting w/ No Controls | Warehouse | Other Int. Lighting | Existing | building | 9,380 | 24% | 0.2 | 8 | \$1,138 | 12% | 0.7 |
| DLC | Occupancy Sensor | Lighting w/ No Controls | Warehouse | Other Int. Lighting | New | building | 9,380 | 7.0% | 0.07 | 8 | \$1,138 | 0% | 0.2 |
| DLC | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Warehouse | Other Int. Lighting | Existing | building | 9,380 | 28% | 0.3 | 8 | \$3,718 | 12% | 0.3 |
| DLC | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Warehouse | Other Int. Lighting | New | building | 9,380 | 4.1% | 0.04 | 8 | \$3,718 | 0% | 0.0 |
| DLC | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Warehouse | Other Int. Lighting | Early | exit sign | 140 | 100% | 0.02 | 15 | \$173 | 26% | 0.6 |
| DLC | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Warehouse | Other Int. Lighting | New | exit sign | 81 | 100% | 0.01 | 15 | \$148 | 31% | 0.4 |
| DLC | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Warehouse | Other Int. Lighting | ROB | exit sign | 81 | 100% | 0.01 | 15 | \$148 | 26% | 0.4 |
| DLC | Time Clock Control | Lighting w/ No Controls | Warehouse | Other Int. Lighting | Existing | building | 9,380 | 28% | 0.3 | 8 | \$755 | 13% | 1.2 |
| DLC | Time Clock Control | Lighting w/ No Controls | Warehouse | Other Int. Lighting | New | building | 9,380 | 4.1% | 0.04 | 8 | \$755 | 0% | 0.2 |
| DLC | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Warehouse | Plug Load | Existing | building | 1,111 | 46% | 0.5 | 5 | \$189 | 4% | 1.4 |
| DLC | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Warehouse | Plug Load | New | building | 1,111 | 46% | 0.5 | 5 | \$189 | 4% | 1.4 |
| DLC | Data Center - Server/Storage Consolidation | No Consolidation | Warehouse | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| DLC | Data Center - Server/Storage Consolidation | No Consolidation | Warehouse | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| DLC | Data Center - Server/Storage Virtualization | No Virtualization | Warehouse | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| DLC | Data Center - Server/Storage Virtualization | No Virtualization | Warehouse | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| DLC | Energy Star - Scanners | Std Scanner | Warehouse | Plug Load | New | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| DLC | Energy Star - Scanners | Std Scanner | Warehouse | Plug Load | ROB | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| DLC | Energy Star Dishwasher | Existing Dishwasher units | Warehouse | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,580 | 1% | 1.1 |
| DLC | Energy Star Dishwasher | Standard Dishwasher unit | Warehouse | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 1% | 3.5 |
| DLC | Energy Star Dishwasher | Standard Dishwasher unit | Warehouse | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 1% | 3.5 |
| DLC | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Warehouse | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 16% | 0.2 |
| DLC | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Warehouse | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 16% | 2.1 |
| DLC | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Warehouse | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 16% | 2.1 |
| DLC | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Warehouse | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 9% | 0.7 |
| DLC | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Warehouse | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.5 |
| DLC | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Warehouse | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.5 |
| DLC | ENERGY STAR® Copiers | 10% Less Efficient Copier | Warehouse | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 17% | 0.0 |
| DLC | ENERGY STAR® Copiers | One Conventional Copier | Warehouse | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 17% | 0.0 |
| DLC | ENERGY STAR® Copiers | One Conventional Copier | Warehouse | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 17% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|---|-----------|---------------|----------|-------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | ENERGY STAR® desktop | Standard computer | Warehouse | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 69% | 0.1 |
| DLC | ENERGY STAR® desktop | Standard computer | Warehouse | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.1 |
| DLC | ENERGY STAR® desktop | Standard computer | Warehouse | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.1 |
| DLC | ENERGY STAR® Fax | 10% Less Efficient Fax | Warehouse | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 15% | 0.0 |
| DLC | ENERGY STAR® Fax | One Conventional Fax | Warehouse | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.1 |
| DLC | ENERGY STAR® Fax | One Conventional Fax | Warehouse | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.1 |
| DLC | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Warehouse | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 69% | 0.0 |
| DLC | ENERGY STAR® Monitors | One Conventional Monitor | Warehouse | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 69% | 0.0 |
| DLC | ENERGY STAR® Monitors | One Conventional Monitor | Warehouse | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 69% | 0.0 |
| DLC | ENERGY STAR® Printers | 10% Less Efficient Printer | Warehouse | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 43% | 0.0 |
| DLC | ENERGY STAR® Printers | One Conventional Printer | Warehouse | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 43% | 0.3 |
| DLC | ENERGY STAR® Printers | One Conventional Printer | Warehouse | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$130 | 43% | 0.3 |
| DLC | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Warehouse | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 43% | 0.1 |
| DLC | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Warehouse | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.8 |
| DLC | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Warehouse | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.8 |
| DLC | ENERGY STAR® Televisions | 10% Less Efficient Television | Warehouse | Plug Load | Early | Unit | 199 | 38% | 0.01 | 6 | \$672 | 41% | 0.0 |
| DLC | ENERGY STAR® Televisions | One Conventional Television | Warehouse | Plug Load | New | Unit | 181 | 32% | 0.01 | 6 | \$206 | 41% | 0.1 |
| DLC | ENERGY STAR® Televisions | One Conventional Television | Warehouse | Plug Load | ROB | Unit | 181 | 32% | 0.01 | 6 | \$206 | 41% | 0.1 |
| DLC | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Warehouse | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 24% | 0.3 |
| DLC | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Warehouse | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.7 |
| DLC | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Warehouse | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.7 |
| DLC | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Warehouse | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.3 |
| DLC | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Warehouse | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.3 |
| DLC | Network PC Power Management | No PC Power Management | Warehouse | Plug Load | Existing | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 6.9 |
| DLC | Network PC Power Management | No PC Power Management | Warehouse | Plug Load | New | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 6.9 |
| DLC | Smart Strip Plug Outlets | Standard plug strip/outlet | Warehouse | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.2 |
| DLC | Smart Strip Plug Outlets | Standard plug strip/outlet | Warehouse | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.2 |
| DLC | Smart Strip Plug Outlets | Standard plug strip/outlet | Warehouse | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| DLC | Smart Strip Plug Outlets | Standard plug strip/outlet | Warehouse | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| DLC | Smart Strip Plug Outlets | Standard plug strip/outlet | Warehouse | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| DLC | Smart Strip Plug Outlets | Standard plug strip/outlet | Warehouse | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| DLC | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Warehouse | Plug Load | Existing | building | 1,111 | 46% | 0.5 | 5 | \$180 | 3% | 1.5 |
| DLC | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Warehouse | Plug Load | New | building | 1,111 | 46% | 0.5 | 5 | \$180 | 3% | 1.5 |
| DLC | Auto Closer on Refrigerator Door | Door w/out Autocloser | Warehouse | Refrigeration | Existing | building | 5,780 | 8.2% | 0.08 | 8 | \$642 | 40% | 0.3 |
| DLC | Auto Closer on Refrigerator Door | Door w/out Autocloser | Warehouse | Refrigeration | Existing | building | 19,362 | 3.4% | 0.03 | 8 | \$476 | 40% | 0.4 |
| DLC | Auto Closer on Refrigerator Door | Door w/out Autocloser | Warehouse | Refrigeration | New | building | 5,780 | 8.2% | 0.08 | 8 | \$642 | 40% | 0.3 |
| DLC | Auto Closer on Refrigerator Door | Door w/out Autocloser | Warehouse | Refrigeration | New | building | 19,362 | 3.4% | 0.03 | 8 | \$476 | 40% | 0.4 |
| DLC | Door Gasket- Freezer | Door w/out Gasket | Warehouse | Refrigeration | Existing | building | 5,780 | 4.4% | 0.04 | 4 | \$66 | 29% | 0.8 |
| DLC | Door Gasket- Freezer | Door w/out Gasket | Warehouse | Refrigeration | New | building | 5,780 | 4.4% | 0.04 | 4 | \$66 | 29% | 0.8 |
| DLC | Door Gasket- Refrigerator | Door w/out Gasket | Warehouse | Refrigeration | Existing | building | 19,362 | 1.1% | 0.01 | 4 | \$66 | 45% | 0.5 |
| DLC | Door Gasket- Refrigerator | Door w/out Gasket | Warehouse | Refrigeration | New | building | 19,362 | 1.1% | 0.01 | 4 | \$66 | 45% | 0.5 |
| DLC | eCube | Refrigeration unit w/out eCube | Warehouse | Refrigeration | Existing | building | 19,362 | 15% | 0.2 | 15 | \$144 | 57% | 13.2 |
| DLC | eCube | Refrigeration unit w/out eCube | Warehouse | Refrigeration | New | building | 19,362 | 15% | 0.2 | 15 | \$144 | 57% | 13.2 |
| DLC | Efficient compressor motor | Base Refrigeration System - Grocery | Warehouse | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.3 |
| DLC | Efficient compressor motor | Base Refrigeration System - Grocery | Warehouse | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.3 |
| DLC | Efficient compressor motor | Base Refrigeration System - Grocery | Warehouse | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.3 |
| DLC | Efficient compressor motor | Base Refrigeration System - Grocery | Warehouse | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.3 |
| DLC | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Warehouse | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.6 |
| DLC | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Warehouse | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| DLC | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Warehouse | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| DLC | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Warehouse | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.3 |
| DLC | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Warehouse | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.8 |
| DLC | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Warehouse | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.8 |
| DLC | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Warehouse | Refrigeration | Existing | building | 19,362 | 0.6% | 0.01 | 10 | \$369 | 77% | 0.1 |
| DLC | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Warehouse | Refrigeration | New | building | 19,362 | 0.6% | 0.01 | 10 | \$369 | 77% | 0.1 |
| DLC | Floating head pressure controller | System w/out FHPC | Warehouse | Refrigeration | Existing | building | 5,780 | 4.0% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| DLC | Floating head pressure controller | System w/out FHPC | Warehouse | Refrigeration | Existing | building | 19,362 | 0.4% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| DLC | Floating head pressure controller | System w/out FHPC | Warehouse | Refrigeration | New | building | 5,780 | 4.0% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| DLC | Floating head pressure controller | System w/out FHPC | Warehouse | Refrigeration | New | building | 19,362 | 0.4% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| DLC | High Efficiency Commercial Freezer | Std. Commercial Freezer | Warehouse | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 86% | 0.4 |
| DLC | High Efficiency Commercial Freezer | Std. Commercial Freezer | Warehouse | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 4.4 |
| DLC | High Efficiency Commercial Freezer | Std. Commercial Freezer | Warehouse | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 4.4 |
| DLC | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Warehouse | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 2% | 0.1 |
| DLC | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Warehouse | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$406 | 2% | 1.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|--|-----------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Warehouse | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$406 | 2% | 1.0 |
| DLC | High Efficiency Ice Maker | Existing Standard Efficiency Ice Maker in Pennsylvania | Warehouse | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 73% | 0.2 |
| DLC | High Efficiency Ice Maker | Standard code minimum Ice Maker | Warehouse | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| DLC | High Efficiency Ice Maker | Standard code minimum Ice Maker | Warehouse | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| DLC | High Efficiency Ice Making Head | Standard Ice Making Head | Warehouse | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 4.1 |
| DLC | High Efficiency Ice Making Head | Standard Ice Making Head | Warehouse | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 4.1 |
| DLC | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Warehouse | Refrigeration | Early | Fixture | 373 | 56% | 0.02 | 8 | \$448 | 47% | 0.2 |
| DLC | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Warehouse | Refrigeration | New | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 47% | 0.3 |
| DLC | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Warehouse | Refrigeration | ROB | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 47% | 0.3 |
| DLC | Quick acting freezer doors | Std. Freezer Doors | Warehouse | Refrigeration | Existing | building | 5,780 | 13% | 0.1 | 10 | \$2,293 | 56% | 0.2 |
| DLC | Quick acting freezer doors | Std. Freezer Doors | Warehouse | Refrigeration | New | building | 5,780 | 13% | 0.1 | 10 | \$2,293 | 56% | 0.2 |
| DLC | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Warehouse | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 30% | 0.5 |
| DLC | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Warehouse | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.8 |
| DLC | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Warehouse | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.8 |
| DLC | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 30% | 1.8 |
| DLC | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 3.3 |
| DLC | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 3.3 |
| DLC | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 30% | 1.9 |
| DLC | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 4.4 |
| DLC | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 4.4 |
| DLC | Refrigeration Commissioning | Non-commissioned refrigeration system | Warehouse | Refrigeration | Existing | building | 28,899 | 9.5% | 0.10 | 3 | \$4,963 | 85% | 0.1 |
| DLC | Refrigeration Commissioning | Non-commissioned refrigeration system | Warehouse | Refrigeration | New | building | 28,899 | 9.5% | 0.10 | 3 | \$4,963 | 85% | 0.1 |
| DLC | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Warehouse | Refrigeration | Existing | building | 5,780 | 11% | 0.1 | 4 | \$80 | 22% | 1.5 |
| DLC | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Warehouse | Refrigeration | Existing | building | 19,362 | 1.5% | 0.02 | 4 | \$80 | 22% | 0.6 |
| DLC | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Warehouse | Refrigeration | New | building | 5,780 | 11% | 0.1 | 4 | \$80 | 22% | 1.5 |
| DLC | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Warehouse | Refrigeration | New | building | 19,362 | 1.5% | 0.02 | 4 | \$80 | 22% | 0.6 |
| DLC | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Warehouse | Refrigeration | Existing | building | 5,780 | 2.6% | 0.03 | 11 | \$152 | 80% | 0.6 |
| DLC | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Warehouse | Refrigeration | New | building | 5,780 | 2.6% | 0.03 | 11 | \$152 | 80% | 0.6 |
| DLC | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Warehouse | Refrigeration | Existing | building | 19,362 | 2.0% | 0.02 | 11 | \$152 | 80% | 1.2 |
| DLC | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Warehouse | Refrigeration | New | building | 19,362 | 2.0% | 0.02 | 11 | \$152 | 80% | 1.2 |
| DLC | VSD Controlled Compressor | Compressor w/out VSD | Warehouse | Refrigeration | Early | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.2 |
| DLC | VSD Controlled Compressor | Compressor w/out VSD | Warehouse | Refrigeration | New | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.2 |
| DLC | VSD Controlled Compressor | Compressor w/out VSD | Warehouse | Refrigeration | ROB | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.2 |
| DLC | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Warehouse | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$268 | 35% | 1.0 |
| DLC | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Warehouse | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$268 | 35% | 1.0 |
| DLC | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Warehouse | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.5 |
| DLC | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Warehouse | Refrigeration | New | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 3.3 |
| DLC | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Warehouse | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.5 |
| DLC | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Warehouse | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 3.3 |
| DLC | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 35% | 2.7 |
| DLC | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 35% | 2.5 |
| DLC | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 5.7 |
| DLC | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 5.4 |
| DLC | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 5.7 |
| DLC | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 5.4 |
| DLC | Adding reflective roof treatment | Std color roof | Warehouse | Space Heating | Existing | building | 11,177 | 7.1% | 0.07 | 6 | \$20,110 | 82% | 0.0 |
| DLC | Adding reflective roof treatment | Std color roof | Warehouse | Space Heating | New | building | 11,177 | 7.1% | 0.07 | 6 | \$20,110 | 82% | 0.0 |
| DLC | Adding window shade film | No shade film | Warehouse | Space Heating | Existing | building | 11,177 | 1.3% | 0.4 | 10 | \$136 | 13% | 2.3 |
| DLC | Adding window shade film | No shade film | Warehouse | Space Heating | New | building | 11,177 | 1.3% | 0.4 | 10 | \$136 | 13% | 2.3 |
| DLC | Adding window shade screen | No shade screen | Warehouse | Space Heating | Existing | building | 11,177 | 1.1% | 0.01 | 10 | \$53 | 13% | 1.1 |
| DLC | Adding window shade screen | No shade screen | Warehouse | Space Heating | New | building | 11,177 | 1.1% | 0.01 | 10 | \$53 | 13% | 1.1 |
| DLC | Automated control system | Manual Controls | Warehouse | Space Heating | Existing | building | 11,177 | 17% | 0.2 | 15 | \$12,236 | 51% | 0.1 |
| DLC | Automated control system | Manual Controls | Warehouse | Space Heating | New | building | 11,177 | 17% | 0.2 | 15 | \$12,236 | 94% | 0.1 |
| DLC | Ceiling Insulations (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Warehouse | Space Heating | Existing | building | 11,177 | 5.9% | 0.06 | 15 | \$27,901 | 71% | 0.0 |
| DLC | Ceiling Insulations (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Warehouse | Space Heating | New | building | 11,177 | 3.7% | 0.04 | 15 | \$26,520 | 94% | 0.0 |
| DLC | Duct Insulation, Add R8 | No Insulation | Warehouse | Space Heating | Existing | building | 11,177 | 1.4% | 0.04 | 15 | \$89 | 20% | 1.5 |
| DLC | Duct Insulation, Add R8 | No Insulation | Warehouse | Space Heating | New | building | 11,177 | 1.4% | 0.04 | 15 | \$89 | 10% | 1.5 |
| DLC | Efficient Unit Heating System | Existing Unit Heaters in PA | Warehouse | Space Heating | Early | heater | 18,988 | 23% | 0.03 | 15 | \$3,289 | 83% | 0.8 |
| DLC | Efficient Unit Heating System | Std. Unit Heater | Warehouse | Space Heating | New | heater | 16,852 | 13% | 0.02 | 15 | \$1,991 | 83% | 0.7 |
| DLC | Efficient Unit Heating System | Std. Unit Heater | Warehouse | Space Heating | ROB | heater | 16,852 | 13% | 0.02 | 15 | \$1,991 | 83% | 0.7 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Warehouse | Space Heating | Existing | building | 11,177 | 7.1% | 0.07 | 15 | \$49,577 | 25% | 0.0 |
| DLC | Green Roof (New construction or roof replacement) | Std Roof | Warehouse | Space Heating | New | building | 11,177 | 7.1% | 0.07 | 15 | \$49,577 | 35% | 0.0 |
| DLC | Hi Eff HVAC System Design | No HVAC Design | Warehouse | Space Heating | New | building | 11,177 | 12% | 0.1 | 10 | \$126,024 | 51% | 0.0 |
| DLC | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Warehouse | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 1.1 |
| DLC | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Warehouse | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 1.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|---|-----------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Warehouse | Space Heating | Existing | building | 11,177 | 1.1% | 0.01 | 10 | \$7,735 | 81% | 0.0 |
| DLC | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Warehouse | Space Heating | New | building | 11,177 | 1.1% | 0.01 | 10 | \$7,735 | 81% | 0.0 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Warehouse | Space Heating | Existing | building | 11,177 | 3.6% | 0.04 | 11 | \$286 | 49% | 0.7 |
| DLC | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Warehouse | Space Heating | New | building | 11,177 | 3.1% | 0.03 | 11 | \$146 | 49% | 1.2 |
| DLC | Re-Commissioning (Existing Construction) | No Re-Commissioning | Warehouse | Space Heating | Existing | building | 11,177 | 16% | 0.2 | 5 | \$8,619 | 86% | 0.0 |
| DLC | VFD on Cooling Tower Fan | Motor w/out VFD | Warehouse | Space Heating | Early | motor | 18,724 | 70% | 3.4 | 15 | \$2,843 | 88% | 3.9 |
| DLC | VFD on Cooling Tower Fan | Motor w/out VFD | Warehouse | Space Heating | New | motor | 18,373 | 72% | 3.3 | 15 | \$2,843 | 88% | 3.9 |
| DLC | VFD on Cooling Tower Fan | Motor w/out VFD | Warehouse | Space Heating | ROB | motor | 18,373 | 72% | 3.3 | 15 | \$2,843 | 88% | 3.9 |
| DLC | Wall Insualtions (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Warehouse | Space Heating | Existing | building | 11,177 | 19% | 0.2 | 15 | \$6,551 | 26% | 0.2 |
| DLC | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Warehouse | Space Heating | New | building | 11,177 | 0.6% | 0.01 | 15 | \$5,025 | 94% | 0.0 |
| DLC | 80W Induction Street Lighting | One 100W HPS Street Light Fixture | Warehouse | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 0% | 0.3 |
| DLC | 80W Induction Street Lighting | One 100W HPS Street Light Fixture | Warehouse | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.9 |
| DLC | 80W Induction Street Lighting | One 100W HPS Street Light Fixture | Warehouse | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.9 |
| DLC | Green LED Traffic Light | Green Incandescent Traffic Light | Warehouse | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 0% | 1.3 |
| DLC | Green LED Traffic Light | Green Incandescent Traffic Light | Warehouse | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.2 |
| DLC | Green LED Traffic Light | Green Incandescent Traffic Light | Warehouse | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.2 |
| DLC | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Warehouse | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 0% | 3.1 |
| DLC | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Warehouse | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| DLC | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Warehouse | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| DLC | LED Street Lighting (67W) | One 100W HPS Street Light | Warehouse | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 0% | 0.2 |
| DLC | LED Street Lighting (67W) | One 100W HPS Street Light | Warehouse | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.4 |
| DLC | LED Street Lighting (67W) | One 100W HPS Street Light | Warehouse | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.4 |
| DLC | Red LED Traffic Light | One Red Incandescent Traffic Light | Warehouse | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 0% | 1.7 |
| DLC | Red LED Traffic Light | One Red Incandescent Traffic Light | Warehouse | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| DLC | Red LED Traffic Light | One Red Incandescent Traffic Light | Warehouse | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| DLC | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Warehouse | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 0% | 0.1 |
| DLC | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Warehouse | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| DLC | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Warehouse | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| DLC | Demand controlled Circulating Systems | Constant circulation system | Warehouse | Water Heating | Existing | building | 2,399 | 20% | 0.2 | 15 | \$435 | 59% | 1.1 |
| DLC | Demand controlled Circulating Systems | Constant circulation system | Warehouse | Water Heating | New | building | 2,399 | 20% | 0.2 | 15 | \$435 | 59% | 1.1 |
| DLC | Drainwater Heat Recovery Water Heater | No heat recovery | Warehouse | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 2.1 |
| DLC | Drainwater Heat Recovery Water Heater | No heat recovery | Warehouse | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 2.1 |
| DLC | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Warehouse | Water Heating | Existing | building | 2,399 | 5.9% | 0.06 | 12 | \$14 | 85% | 8.3 |
| DLC | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Warehouse | Water Heating | New | building | 2,399 | 5.9% | 0.06 | 12 | \$4.0 | 85% | 29.2 |
| DLC | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Warehouse | Water Heating | Early | water heater | 7,897 | 66% | 0.9 | 10 | \$1,187 | 29% | 2.3 |
| DLC | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Warehouse | Water Heating | Early | water heater | 7,897 | 66% | 0.9 | 10 | \$1,187 | 29% | 2.3 |
| DLC | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Warehouse | Water Heating | New | water heater | 7,897 | 66% | 0.9 | 10 | \$1,187 | 29% | 2.3 |
| DLC | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Warehouse | Water Heating | New | water heater | 7,897 | 66% | 0.9 | 10 | \$1,187 | 29% | 2.3 |
| DLC | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Warehouse | Water Heating | ROB | water heater | 7,678 | 65% | 0.9 | 10 | \$1,187 | 29% | 2.2 |
| DLC | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Warehouse | Water Heating | ROB | water heater | 7,678 | 65% | 0.9 | 10 | \$1,187 | 29% | 2.2 |
| DLC | Heat Recovery Unit | Base Water Heating | Warehouse | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.8 |
| DLC | Heat Recovery Unit | Base Water Heating | Warehouse | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.8 |
| DLC | Heat Trap | No Heat Trap | Warehouse | Water Heating | New | building | 2,399 | 22% | 0.2 | 11 | \$2.4 | 21% | 166.3 |
| DLC | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Warehouse | Water Heating | Early | water heater | 7,897 | 5.9% | 0.08 | 15 | \$307 | 36% | 1.2 |
| DLC | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Warehouse | Water Heating | Early | water heater | 7,897 | 5.9% | 0.08 | 15 | \$307 | 36% | 1.2 |
| DLC | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Warehouse | Water Heating | New | water heater | 7,678 | 3.2% | 0.04 | 15 | \$307 | 36% | 0.6 |
| DLC | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Warehouse | Water Heating | New | water heater | 7,678 | 3.2% | 0.04 | 15 | \$307 | 36% | 0.6 |
| DLC | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Warehouse | Water Heating | ROB | water heater | 7,678 | 3.2% | 0.04 | 15 | \$307 | 36% | 0.6 |
| DLC | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Warehouse | Water Heating | ROB | water heater | 7,678 | 3.2% | 0.04 | 15 | \$307 | 36% | 0.6 |
| DLC | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Warehouse | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$466 | 81% | 43.7 |
| DLC | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Warehouse | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 22.8 |
| DLC | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Warehouse | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 22.8 |
| DLC | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Warehouse | Water Heating | Existing | building | 2,399 | 0.8% | 0.01 | 13 | \$3.0 | 30% | 5.7 |
| DLC | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Warehouse | Water Heating | New | building | 2,399 | 0.8% | 0.01 | 13 | \$3.0 | 0% | 5.7 |
| DLC | Hot Water Circulation Pump Time-Clock | Constant circulation system | Warehouse | Water Heating | Existing | building | 2,399 | 5.3% | 0.05 | 10 | \$9.7 | 72% | 9.0 |
| DLC | Hot Water Circulation Pump Time-Clock | Constant circulation system | Warehouse | Water Heating | New | building | 2,399 | 5.3% | 0.05 | 10 | \$9.7 | 72% | 9.1 |
| DLC | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Warehouse | Water Heating | Existing | building | 2,399 | 1.2% | 0.01 | 7 | \$22 | 35% | 0.6 |
| DLC | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Warehouse | Water Heating | New | building | 2,399 | 1.1% | 0.01 | 7 | \$0.5 | 35% | 24.7 |
| DLC | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Warehouse | Water Heating | Existing | building | 2,399 | 8.0% | 0.08 | 5 | \$300 | 0% | 0.2 |
| DLC | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Warehouse | Water Heating | New | building | 2,399 | 5.3% | 0.05 | 5 | \$194 | 0% | 0.2 |
| DLC | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Warehouse | Water Heating | Existing | building | 2,399 | 6.5% | 0.07 | 9 | \$25 | 2% | 3.8 |
| DLC | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Warehouse | Water Heating | New | building | 2,399 | 6.5% | 0.07 | 9 | \$6.0 | 2% | 16.0 |
| DLC | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Warehouse | Water Heating | Early | water heater | 7,897 | 52% | 0.3 | 15 | \$6,222 | 14% | 0.5 |
| DLC | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Warehouse | Water Heating | New | water heater | 7,678 | 51% | 0.3 | 15 | \$6,222 | 14% | 0.4 |
| DLC | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Warehouse | Water Heating | ROB | water heater | 7,678 | 51% | 0.3 | 15 | \$6,222 | 14% | 0.4 |
| DLC | Ultrasonic Faucet Control | Manual Faucet Control | Warehouse | Water Heating | Existing | building | 2,399 | 3.1% | 0.03 | 10 | \$415 | 54% | 0.1 |
| DLC | Ultrasonic Faucet Control | Manual Faucet Control | Warehouse | Water Heating | New | building | 2,399 | 3.1% | 0.03 | 10 | \$415 | 54% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|--|---|-----------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Warehouse | Water Heating | Existing | building | 2,399 | 2.2% | 0.02 | 4 | \$28 | 35% | 0.5 |
| DLC | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Warehouse | Water Heating | New | building | 2,399 | 2.3% | 0.02 | 4 | \$28 | 35% | 0.6 |
| FE-Met Ed | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Education | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.2 |
| FE-Met Ed | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Education | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.2 |
| FE-Met Ed | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Education | Cooking | Early | steamer | 43 | 48% | 0.00 | 12 | \$5,053 | 81% | 0.0 |
| FE-Met Ed | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Education | Cooking | New | steamer | 34 | 34% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-Met Ed | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Education | Cooking | ROB | steamer | 34 | 34% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-Met Ed | Electric combination oven (Energy Star) | Standard Oven | Education | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 3.1 |
| FE-Met Ed | Electric combination oven (Energy Star) | Standard Oven | Education | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 3.1 |
| FE-Met Ed | Electric Convection Oven | Conventional convection oven w/ 65% efficiency | Education | Cooking | Early | oven | 6,481 | 37% | 0.5 | 12 | \$4,119 | 81% | 0.4 |
| FE-Met Ed | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Education | Cooking | New | oven | 5,186 | 22% | 0.2 | 12 | \$1,113 | 81% | 0.6 |
| FE-Met Ed | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Education | Cooking | ROB | oven | 5,186 | 22% | 0.2 | 12 | \$1,113 | 81% | 0.6 |
| FE-Met Ed | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Education | Cooking | Early | fryer | 4,591 | 24% | 0.2 | 12 | \$9,241 | 86% | 0.1 |
| FE-Met Ed | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Education | Cooking | New | fryer | 4,591 | 24% | 0.2 | 12 | \$2,366 | 86% | 0.3 |
| FE-Met Ed | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Education | Cooking | ROB | fryer | 4,591 | 24% | 0.2 | 12 | \$2,366 | 86% | 0.3 |
| FE-Met Ed | High Efficiency Griddle (ENERGY STAR) | Efficiency code minimum griddle (70% eff) | Education | Cooking | Early | griddle | 8,725 | 67% | 1.1 | 12 | \$4,977 | 86% | 0.7 |
| FE-Met Ed | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Education | Cooking | New | griddle | 5,556 | 48% | 0.5 | 12 | \$1,700 | 86% | 0.9 |
| FE-Met Ed | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Education | Cooking | ROB | griddle | 5,556 | 48% | 0.5 | 12 | \$1,700 | 86% | 0.9 |
| FE-Met Ed | High Efficiency Induction Cooking | Standard Cooking | Education | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-Met Ed | High Efficiency Induction Cooking | Standard Cooking | Education | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Education | Cooling Central | Existing | building | 9,497 | 7.0% | 0.07 | 6 | \$19,312 | 82% | 0.0 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Education | Cooling Central | New | building | 9,497 | 7.0% | 0.07 | 6 | \$19,312 | 82% | 0.0 |
| FE-Met Ed | Adding window shade film | No shade film | Education | Cooling Central | Existing | building | 9,497 | 1.3% | 0.4 | 10 | \$116 | 12% | 2.7 |
| FE-Met Ed | Adding window shade film | No shade film | Education | Cooling Central | New | building | 9,497 | 1.3% | 0.4 | 10 | \$116 | 13% | 2.7 |
| FE-Met Ed | Adding window shade screen | No shade screen | Education | Cooling Central | Existing | building | 9,497 | 1.0% | 0.01 | 10 | \$45 | 13% | 1.0 |
| FE-Met Ed | Adding window shade screen | No shade screen | Education | Cooling Central | New | building | 9,497 | 1.1% | 0.01 | 10 | \$45 | 13% | 1.1 |
| FE-Met Ed | Automated control system | Manual Controls | Education | Cooling Central | Existing | building | 9,497 | 17% | 0.2 | 15 | \$10,397 | 51% | 0.1 |
| FE-Met Ed | Automated control system | Manual Controls | Education | Cooling Central | New | building | 9,497 | 17% | 0.2 | 15 | \$10,397 | 94% | 0.1 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Education | Cooling Central | Existing | building | 9,497 | 1.6% | 0.02 | 15 | \$26,439 | 71% | 0.0 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Education | Cooling Central | New | building | 9,497 | 0.5% | 0.01 | 15 | \$25,131 | 94% | 0.0 |
| FE-Met Ed | Chiller Tuneup/Diagnostics | No tuneup | Education | Cooling Central | Existing | building | 9,497 | 8.0% | 0.08 | 10 | \$24,250 | 59% | 0.0 |
| FE-Met Ed | Chiller Tuneup/Diagnostics | No tuneup | Education | Cooling Central | New | building | 9,497 | 8.0% | 0.08 | 10 | \$24,250 | 59% | 0.0 |
| FE-Met Ed | Commercial energy recovery ventilation systems | No Commercial Recovery System | Education | Cooling Central | Existing | building | 9,497 | 16% | 0.2 | 14 | \$8,582 | 71% | 0.1 |
| FE-Met Ed | Cooling Tower Optimization | No Cooling Tower Optimization | Education | Cooling Central | Existing | building | 9,497 | 20% | 0.2 | 10 | \$58 | 69% | 15.0 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Education | Cooling Central | Existing | building | 9,497 | 1.4% | 0.04 | 15 | \$75 | 20% | 1.5 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Education | Cooling Central | New | building | 9,497 | 1.4% | 0.04 | 15 | \$75 | 10% | 1.5 |
| FE-Met Ed | Facility Commissioning | No Facility Commissioning | Education | Cooling Central | New | building | 9,497 | 16% | 0.2 | 10 | \$5,244 | 89% | 0.1 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Education | Cooling Central | Existing | building | 9,497 | 7.0% | 0.07 | 15 | \$42,126 | 25% | 0.0 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Education | Cooling Central | New | building | 9,497 | 7.0% | 0.07 | 15 | \$42,126 | 35% | 0.0 |
| FE-Met Ed | Hi Eff HVAC System Design | No HVAC Design | Education | Cooling Central | New | building | 9,497 | 14% | 0.1 | 10 | \$77,827 | 51% | 0.0 |
| FE-Met Ed | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Education | Cooling Central | Early | ton | 5,660 | 24% | 0.5 | 15 | \$108,550 | 88% | 0.0 |
| FE-Met Ed | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Education | Cooling Central | New | ton | 4,627 | 6.7% | 0.1 | 15 | \$12,927 | 88% | 0.0 |
| FE-Met Ed | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Education | Cooling Central | ROB | ton | 4,627 | 6.7% | 0.1 | 15 | \$12,927 | 88% | 0.0 |
| FE-Met Ed | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Education | Cooling Central | Early | ton | 8,457 | 23% | 0.7 | 15 | \$140,105 | 88% | 0.0 |
| FE-Met Ed | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Education | Cooling Central | New | ton | 6,804 | 4.9% | 0.1 | 15 | \$9,336 | 88% | 0.0 |
| FE-Met Ed | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Education | Cooling Central | ROB | ton | 6,804 | 4.9% | 0.1 | 15 | \$9,336 | 88% | 0.0 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Education | Cooling Central | Early | ton | 69,231 | 26% | 6.2 | 15 | \$105,354 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Education | Cooling Central | New | ton | 60,320 | 15% | 3.1 | 15 | \$30,530 | 88% | 0.3 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Education | Cooling Central | ROB | ton | 60,320 | 15% | 3.1 | 15 | \$30,530 | 88% | 0.3 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Education | Cooling Central | Early | ton | 103,689 | 23% | 8.2 | 15 | \$154,107 | 88% | 0.1 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Education | Cooling Central | New | ton | 95,252 | 16% | 5.3 | 15 | \$27,646 | 88% | 0.5 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Education | Cooling Central | ROB | ton | 95,252 | 16% | 5.3 | 15 | \$27,646 | 88% | 0.5 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Education | Cooling Central | Early | ton | 172,208 | 23% | 13.5 | 15 | \$302,924 | 88% | 0.1 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Education | Cooling Central | New | ton | 155,861 | 14% | 7.8 | 15 | \$115,432 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Education | Cooling Central | ROB | ton | 155,861 | 14% | 7.8 | 15 | \$115,432 | 88% | 0.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|--|--|-----------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Education | Cooling Central | Early | ton | 206,650 | 23% | 16.2 | 15 | \$350,154 | 88% | 0.1 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Education | Cooling Central | New | ton | 187,033 | 14% | 9.4 | 15 | \$120,406 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Education | Cooling Central | ROB | ton | 187,033 | 14% | 9.4 | 15 | \$120,406 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Education | Cooling Central | Early | ton | 45,806 | 29% | 4.7 | 15 | \$83,632 | 88% | 0.1 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Education | Cooling Central | New | ton | 35,568 | 9.0% | 1.1 | 15 | \$40,211 | 88% | 0.1 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Education | Cooling Central | ROB | ton | 35,568 | 9.0% | 1.1 | 15 | \$40,211 | 88% | 0.1 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Education | Cooling Central | Early | ton | 78,706 | 35% | 9.5 | 15 | \$132,173 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Education | Cooling Central | New | ton | 58,701 | 13% | 2.6 | 15 | \$39,556 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Education | Cooling Central | ROB | ton | 58,701 | 13% | 2.6 | 15 | \$39,556 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Education | Cooling Central | Early | ton | 131,405 | 39% | 17.9 | 15 | \$187,029 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Education | Cooling Central | New | ton | 93,690 | 15% | 4.8 | 15 | \$33,554 | 88% | 0.4 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Education | Cooling Central | ROB | ton | 93,690 | 15% | 4.8 | 15 | \$33,554 | 88% | 0.4 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Education | Cooling Central | Early | ton | 22,994 | 30% | 2.4 | 15 | \$32,398 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Education | Cooling Central | New | ton | 18,218 | 11% | 0.7 | 15 | \$7,188 | 88% | 0.3 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Education | Cooling Central | ROB | ton | 18,218 | 11% | 0.7 | 15 | \$7,188 | 88% | 0.3 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Education | Cooling Central | Existing | building | 9,497 | 3.5% | 0.04 | 10 | \$1,851 | 81% | 0.1 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Education | Cooling Central | New | building | 9,497 | 3.5% | 0.04 | 10 | \$1,851 | 81% | 0.1 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Education | Cooling Central | Existing | building | 9,497 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.3 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Education | Cooling Central | New | building | 9,497 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.6 |
| FE-Met Ed | Re-Commissioning (Existing Construction) | No Re-Commissioning | Education | Cooling Central | Existing | building | 9,497 | 16% | 0.2 | 5 | \$9,680 | 86% | 0.0 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Education | Cooling Central | Existing | building | 9,497 | 3.6% | 0.04 | 15 | \$6,377 | 26% | 0.0 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Education | Cooling Central | New | building | 9,497 | 0.1% | 0.00 | 15 | \$4,891 | 94% | 0.0 |
| FE-Met Ed | <65k BTU/hr 14 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Education | Cooling Unitary | Early | ton | 1,372 | 16% | 0.1 | 15 | \$1,545 | 29% | 0.2 |
| FE-Met Ed | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Education | Cooling Unitary | New | ton | 1,242 | 7.1% | 0.06 | 15 | \$339 | 29% | 0.3 |
| FE-Met Ed | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Education | Cooling Unitary | ROB | ton | 1,242 | 7.1% | 0.06 | 15 | \$339 | 29% | 0.3 |
| FE-Met Ed | <65k BTU/hr 15 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Education | Cooling Unitary | Early | ton | 1,372 | 22% | 0.2 | 15 | \$1,821 | 30% | 0.2 |
| FE-Met Ed | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Education | Cooling Unitary | New | ton | 1,242 | 13% | 0.1 | 15 | \$714 | 30% | 0.3 |
| FE-Met Ed | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Education | Cooling Unitary | ROB | ton | 1,242 | 13% | 0.1 | 15 | \$714 | 30% | 0.3 |
| FE-Met Ed | <65k BTU/hr 16 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Education | Cooling Unitary | Early | ton | 1,372 | 26% | 0.2 | 15 | \$2,098 | 31% | 0.2 |
| FE-Met Ed | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Education | Cooling Unitary | New | ton | 1,242 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.3 |
| FE-Met Ed | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Education | Cooling Unitary | ROB | ton | 1,242 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.3 |
| FE-Met Ed | >760k min 10.2 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Education | Cooling Unitary | Early | ton | 34,703 | 3.7% | 0.9 | 15 | \$68,066 | 56% | 0.0 |
| FE-Met Ed | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Education | Cooling Unitary | New | ton | 35,148 | 4.9% | 1.2 | 15 | \$6,231 | 56% | 0.3 |
| FE-Met Ed | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Education | Cooling Unitary | ROB | ton | 35,148 | 4.9% | 1.2 | 15 | \$6,231 | 56% | 0.3 |
| FE-Met Ed | 135-240k min 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Education | Cooling Unitary | Early | ton | 8,539 | 18% | 1.0 | 15 | \$18,135 | 79% | 0.1 |
| FE-Met Ed | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Education | Cooling Unitary | New | ton | 7,767 | 10.0% | 0.5 | 15 | \$1,948 | 79% | 0.5 |
| FE-Met Ed | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Education | Cooling Unitary | ROB | ton | 7,767 | 10.0% | 0.5 | 15 | \$1,948 | 79% | 0.5 |
| FE-Met Ed | 240k-760k min 11 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Education | Cooling Unitary | Early | ton | 22,831 | 9.0% | 1.4 | 15 | \$44,809 | 66% | 0.1 |
| FE-Met Ed | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Education | Cooling Unitary | New | ton | 22,888 | 9.3% | 1.4 | 15 | \$4,796 | 66% | 0.5 |
| FE-Met Ed | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Education | Cooling Unitary | ROB | ton | 22,888 | 9.3% | 1.4 | 15 | \$4,796 | 66% | 0.5 |
| FE-Met Ed | 65k-135k BTU/hr 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Education | Cooling Unitary | Early | ton | 5,033 | 17% | 0.6 | 15 | \$10,946 | 86% | 0.1 |
| FE-Met Ed | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Education | Cooling Unitary | New | ton | 4,486 | 6.7% | 0.2 | 15 | \$1,392 | 86% | 0.3 |
| FE-Met Ed | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Education | Cooling Unitary | ROB | ton | 4,486 | 6.7% | 0.2 | 15 | \$1,392 | 86% | 0.3 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Education | Cooling Unitary | Existing | building | 140,979 | 7.1% | 0.07 | 6 | \$19,312 | 82% | 0.1 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Education | Cooling Unitary | New | building | 140,979 | 7.0% | 0.07 | 6 | \$19,312 | 82% | 0.1 |
| FE-Met Ed | Adding window shade film | No shade film | Education | Cooling Unitary | Existing | building | 140,979 | 1.3% | 0.4 | 10 | \$1,715 | 12% | 0.6 |
| FE-Met Ed | Adding window shade film | No shade film | Education | Cooling Unitary | New | building | 140,979 | 1.3% | 0.4 | 10 | \$1,715 | 13% | 0.6 |
| FE-Met Ed | Adding window shade screen | No shade screen | Education | Cooling Unitary | Existing | building | 140,979 | 1.1% | 0.01 | 10 | \$664 | 12% | 0.9 |
| FE-Met Ed | Adding window shade screen | No shade screen | Education | Cooling Unitary | New | building | 140,979 | 1.1% | 0.01 | 10 | \$664 | 13% | 0.9 |
| FE-Met Ed | Automated control system | Manual Controls | Education | Cooling Unitary | Existing | building | 140,979 | 17% | 0.2 | 15 | \$154,339 | 51% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|---|-----------|-----------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Automated control system | Manual Controls | Education | Cooling Unitary | New | building | 140,979 | 17% | 0.2 | 15 | \$154,339 | 94% | 0.1 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Education | Cooling Unitary | Existing | building | 140,979 | 1.6% | 0.02 | 15 | \$26,439 | 71% | 0.0 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Education | Cooling Unitary | New | building | 140,979 | 0.5% | 0.01 | 15 | \$25,131 | 94% | 0.0 |
| FE-Met Ed | Commercial energy recovery ventilation systems | No Commercial Recovery System | Education | Cooling Unitary | Existing | building | 140,979 | 16% | 0.2 | 14 | \$127,396 | 71% | 0.1 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Education | Cooling Unitary | Existing | building | 140,979 | 1.4% | 0.04 | 15 | \$1,120 | 20% | 1.0 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Education | Cooling Unitary | New | building | 140,979 | 1.4% | 0.04 | 15 | \$1,120 | 10% | 1.0 |
| FE-Met Ed | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Education | Cooling Unitary | Existing | building | 77,539 | 13% | 0.1 | 1 | \$743 | 73% | 0.7 |
| FE-Met Ed | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Education | Cooling Unitary | New | building | 77,539 | 13% | 0.1 | 1 | \$743 | 73% | 0.7 |
| FE-Met Ed | ECM Motors for split systems | Std Shaded Pole Motor | Education | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 3.0 |
| FE-Met Ed | ECM Motors for split systems | Std Shaded Pole Motor | Education | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 3.0 |
| FE-Met Ed | Facility Commissioning | No Facility Commissioning | Education | Cooling Unitary | New | building | 140,979 | 16% | 0.2 | 10 | \$2,288 | 89% | 4.0 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Education | Cooling Unitary | Existing | building | 140,979 | 7.1% | 0.07 | 15 | \$625,352 | 25% | 0.0 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Education | Cooling Unitary | New | building | 140,979 | 7.1% | 0.07 | 15 | \$625,352 | 35% | 0.0 |
| FE-Met Ed | Hi Eff HVAC System Design | No HVAC Design | Education | Cooling Unitary | New | building | 140,979 | 14% | 0.1 | 10 | \$9,835 | 51% | 0.8 |
| FE-Met Ed | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Education | Cooling Unitary | Existing | building | 140,979 | 5.0% | 0.05 | 5 | \$225 | 59% | 7.0 |
| FE-Met Ed | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Education | Cooling Unitary | Existing | building | 140,979 | 0.0% | 0.02 | 5 | \$225 | 51% | 0.1 |
| FE-Met Ed | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Education | Cooling Unitary | New | building | 140,979 | 0.0% | 0.02 | 5 | \$135 | 51% | 0.2 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Education | Cooling Unitary | Existing | building | 140,979 | 3.5% | 0.04 | 10 | \$1,989 | 86% | 1.0 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Education | Cooling Unitary | New | building | 140,979 | 3.5% | 0.04 | 10 | \$1,989 | 86% | 1.0 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) | Education | Cooling Unitary | Existing | building | 140,979 | 2.0% | 0.02 | 11 | \$286 | 49% | 4.3 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Education | Cooling Unitary | New | building | 140,979 | 1.7% | 0.02 | 11 | \$146 | 49% | 7.2 |
| FE-Met Ed | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Education | Cooling Unitary | Early | unit | 464 | 19% | 0.06 | 15 | \$849 | 85% | 0.1 |
| FE-Met Ed | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Education | Cooling Unitary | New | unit | 469 | 20% | 0.06 | 15 | \$356 | 85% | 0.3 |
| FE-Met Ed | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Education | Cooling Unitary | ROB | unit | 469 | 20% | 0.06 | 15 | \$356 | 85% | 0.3 |
| FE-Met Ed | Re-Commissioning (Existing Construction) | No Re-Commissioning | Education | Cooling Unitary | Existing | building | 140,979 | 16% | 0.2 | 5 | \$9,680 | 86% | 0.5 |
| FE-Met Ed | Room AC (w/ louvered sides) | Exisiting efficiency Room AC in Pennsylvania (2000 Federal Standards) | Education | Cooling Unitary | Early | ton | 647 | 13% | 0.03 | 9 | \$348 | 82% | 0.1 |
| FE-Met Ed | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Education | Cooling Unitary | New | ton | 587 | 4.5% | 0.01 | 9 | \$17 | 82% | 0.9 |
| FE-Met Ed | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Education | Cooling Unitary | ROB | ton | 587 | 4.5% | 0.01 | 9 | \$17 | 82% | 0.9 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Education | Cooling Unitary | Existing | building | 140,979 | 3.6% | 0.04 | 15 | \$6,377 | 26% | 0.5 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Education | Cooling Unitary | New | building | 140,979 | 0.1% | 0.00 | 15 | \$4,891 | 94% | 0.0 |
| FE-Met Ed | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Education | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 1.2 |
| FE-Met Ed | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Education | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.6 |
| FE-Met Ed | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Education | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.6 |
| FE-Met Ed | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Education | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 0% | 0.2 |
| FE-Met Ed | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Education | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-Met Ed | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Education | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-Met Ed | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Education | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 75% | 0.3 |
| FE-Met Ed | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Education | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 75% | 0.2 |
| FE-Met Ed | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Education | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.9 |
| FE-Met Ed | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Education | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.2 |
| FE-Met Ed | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Education | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.9 |
| FE-Met Ed | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Education | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.2 |
| FE-Met Ed | Photocell Controls (Outdoor) | Lighting w/ No Controls | Education | Ext. Lighting | Existing | building | 710 | 28% | 0.3 | 8 | \$15,932 | 88% | 0.0 |
| FE-Met Ed | Photocell Controls (Outdoor) | Lighting w/ No Controls | Education | Ext. Lighting | New | building | 710 | 28% | 0.3 | 8 | \$15,932 | 0% | 0.0 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Education | Heat Pump | Existing | building | 14,646 | 6.9% | 0.07 | 6 | \$19,312 | 82% | 0.0 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Education | Heat Pump | New | building | 14,646 | 6.9% | 0.07 | 6 | \$19,312 | 82% | 0.0 |
| FE-Met Ed | Adding window shade film | No shade film | Education | Heat Pump | Existing | building | 14,646 | 3.9% | 0.4 | 10 | \$178 | 12% | 2.7 |
| FE-Met Ed | Adding window shade film | No shade film | Education | Heat Pump | New | building | 14,646 | 3.9% | 0.4 | 10 | \$178 | 12% | 2.7 |
| FE-Met Ed | Adding window shade screen | No shade screen | Education | Heat Pump | Existing | building | 14,646 | 0.3% | 0.01 | 10 | \$23 | 12% | 1.1 |
| FE-Met Ed | Adding window shade screen | No shade screen | Education | Heat Pump | New | building | 14,646 | 0.3% | 0.01 | 10 | \$23 | 12% | 1.1 |
| FE-Met Ed | Automated control system | Manual Controls | Education | Heat Pump | Existing | building | 14,646 | 17% | 0.2 | 15 | \$16,033 | 51% | 0.1 |
| FE-Met Ed | Automated control system | Manual Controls | Education | Heat Pump | New | building | 14,646 | 17% | 0.2 | 15 | \$16,033 | 94% | 0.1 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Education | Heat Pump | Existing | building | 14,646 | 1.6% | 0.02 | 15 | \$26,439 | 71% | 0.0 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Education | Heat Pump | New | building | 14,646 | 0.5% | 0.01 | 15 | \$25,131 | 94% | 0.0 |
| FE-Met Ed | Commercial energy recovery ventilation systems | No Commercial Recovery System | Education | Heat Pump | Existing | building | 14,646 | 16% | 0.2 | 14 | \$615,734 | 71% | 0.0 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Education | Heat Pump | Existing | building | 14,646 | 4.0% | 0.04 | 15 | \$116 | 12% | 3.0 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Education | Heat Pump | New | building | 14,646 | 4.0% | 0.04 | 15 | \$116 | 6% | 3.0 |
| FE-Met Ed | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Education | Heat Pump | Early | heat pump | 1,397 | 12% | 0.01 | 15 | \$4,070 | 83% | 0.0 |
| FE-Met Ed | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Education | Heat Pump | New | heat pump | 1,338 | 7.9% | 0.01 | 15 | \$1,097 | 83% | 0.1 |
| FE-Met Ed | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Education | Heat Pump | ROB | heat pump | 1,338 | 7.9% | 0.01 | 15 | \$1,097 | 83% | 0.1 |
| FE-Met Ed | Facility Commissioning | No Facility Commissioning | Education | Heat Pump | New | building | 14,646 | 16% | 0.2 | 10 | \$5,244 | 89% | 0.2 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Education | Heat Pump | Existing | building | 14,646 | 7.0% | 0.07 | 15 | \$64,965 | 25% | 0.0 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Education | Heat Pump | New | building | 14,646 | 7.0% | 0.07 | 15 | \$64,965 | 35% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|--|--|-----------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Education | Heat Pump | Early | heat pump | 14,291 | 15% | 0.2 | 15 | \$91,117 | 19% | 0.0 |
| FE-Met Ed | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Education | Heat Pump | New | heat pump | 13,823 | 12% | 0.1 | 15 | \$33,927 | 19% | 0.0 |
| FE-Met Ed | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Education | Heat Pump | ROB | heat pump | 13,823 | 12% | 0.1 | 15 | \$33,927 | 19% | 0.0 |
| FE-Met Ed | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Education | Heat Pump | Early | heat pump | 14,291 | 15% | 0.2 | 15 | \$58,356 | 19% | 0.0 |
| FE-Met Ed | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Education | Heat Pump | New | heat pump | 13,823 | 12% | 0.1 | 15 | \$1,167 | 19% | 0.9 |
| FE-Met Ed | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Education | Heat Pump | ROB | heat pump | 13,823 | 12% | 0.1 | 15 | \$1,167 | 19% | 0.9 |
| FE-Met Ed | Hi Eff HVAC System Design | No HVAC Design | Education | Heat Pump | New | building | 14,646 | 14% | 0.1 | 10 | \$77,827 | 51% | 0.0 |
| FE-Met Ed | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Education | Heat Pump | Early | heat pump | 3,726 | 16% | 0.05 | 12 | \$4,298 | 81% | 0.1 |
| FE-Met Ed | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Education | Heat Pump | New | heat pump | 3,569 | 12% | 0.04 | 12 | \$852 | 81% | 0.3 |
| FE-Met Ed | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Education | Heat Pump | ROB | heat pump | 3,569 | 12% | 0.04 | 12 | \$852 | 81% | 0.3 |
| FE-Met Ed | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Education | Heat Pump | Existing | building | 14,646 | 5.0% | 0.06 | 5 | \$90 | 51% | 2.0 |
| FE-Met Ed | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Education | Heat Pump | New | building | 14,646 | 5.0% | 0.06 | 5 | \$90 | 51% | 2.0 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Education | Heat Pump | Existing | building | 14,646 | 3.5% | 0.04 | 10 | \$1,771 | 81% | 0.1 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Education | Heat Pump | New | building | 14,646 | 3.5% | 0.04 | 10 | \$1,771 | 81% | 0.1 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Education | Heat Pump | Existing | building | 14,646 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.6 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Education | Heat Pump | New | building | 14,646 | 2.1% | 0.02 | 11 | \$146 | 49% | 1.0 |
| FE-Met Ed | Re-Commissioning (Existing Construction) | No Re-Commissioning | Education | Heat Pump | Existing | building | 14,646 | 16% | 0.2 | 5 | \$9,680 | 86% | 0.1 |
| FE-Met Ed | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Education | Heat Pump | New | measure | 1,891,834 | 2.0% | 4.3 | 13 | \$238,160 | 43% | 0.1 |
| FE-Met Ed | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Education | Heat Pump | ROB | measure | 1,891,834 | 2.0% | 4.3 | 13 | \$238,160 | 43% | 0.1 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Education | Heat Pump | Existing | building | 14,646 | 3.6% | 0.04 | 15 | \$6,377 | 26% | 0.0 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Education | Heat Pump | New | building | 14,646 | 0.1% | 0.00 | 15 | \$4,891 | 94% | 0.0 |
| FE-Met Ed | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Education | Heat Pump | Early | heat pump | 6,032 | 36% | 0.2 | 15 | \$35,347 | 28% | 0.0 |
| FE-Met Ed | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Education | Heat Pump | New | heat pump | 5,766 | 33% | 0.2 | 15 | \$15,739 | 28% | 0.1 |
| FE-Met Ed | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Education | Heat Pump | ROB | heat pump | 5,766 | 33% | 0.2 | 15 | \$15,739 | 28% | 0.1 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Education | High Bay Lighting | Early | Fixture | 499 | 9.6% | 0.01 | 13 | \$850 | 39% | 0.0 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Education | High Bay Lighting | Early | Fixture | 499 | 9.5% | 0.01 | 13 | \$850 | 28% | 0.0 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Education | High Bay Lighting | Early | Fixture | 770 | 41% | 0.07 | 13 | \$850 | 36% | 0.3 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Education | High Bay Lighting | New | Fixture | 379 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Education | High Bay Lighting | New | Fixture | 353 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Education | High Bay Lighting | New | Fixture | 585 | 41% | 0.05 | 13 | \$397 | 36% | 0.4 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Education | High Bay Lighting | ROB | Fixture | 499 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Education | High Bay Lighting | ROB | Fixture | 465 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Education | High Bay Lighting | ROB | Fixture | 770 | 41% | 0.07 | 13 | \$397 | 36% | 0.6 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Education | High Bay Lighting | Early | Fixture | 969 | 19% | 0.04 | 13 | \$851 | 38% | 0.1 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Education | High Bay Lighting | Early | Fixture | 981 | 20% | 0.04 | 13 | \$851 | 38% | 0.2 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | Early | Fixture | 2,855 | 73% | 0.5 | 13 | \$851 | 38% | 1.7 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Education | High Bay Lighting | New | Fixture | 737 | 19% | 0.03 | 13 | \$372 | 38% | 0.3 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | New | Fixture | 2,170 | 73% | 0.4 | 13 | \$383 | 38% | 2.8 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Education | High Bay Lighting | ROB | Fixture | 969 | 19% | 0.04 | 13 | \$372 | 38% | 0.3 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | ROB | Fixture | 2,855 | 73% | 0.5 | 13 | \$383 | 38% | 3.7 |
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Education | High Bay Lighting | Early | Fixture | 969 | 25% | 0.05 | 13 | \$554 | 29% | 0.3 |
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Education | High Bay Lighting | Early | Fixture | 951 | 23% | 0.05 | 13 | \$554 | 28% | 0.3 |
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | Early | Fixture | 2,855 | 74% | 0.5 | 13 | \$554 | 36% | 2.6 |
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Education | High Bay Lighting | New | Fixture | 737 | 25% | 0.04 | 13 | \$75 | 29% | 1.7 |
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | New | Fixture | 2,170 | 74% | 0.4 | 13 | \$86 | 36% | 12.9 |
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Education | High Bay Lighting | ROB | Fixture | 969 | 25% | 0.05 | 13 | \$75 | 29% | 2.2 |
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | ROB | Fixture | 2,855 | 74% | 0.5 | 13 | \$86 | 36% | 17.0 |
| FE-Met Ed | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Education | High Bay Lighting | Early | Fixture | 253 | 0.2% | 0.00 | 13 | \$835 | 38% | 0.0 |
| FE-Met Ed | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Education | High Bay Lighting | Early | Fixture | 544 | 54% | 0.07 | 13 | \$835 | 38% | 0.2 |
| FE-Met Ed | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Education | High Bay Lighting | New | Fixture | 414 | 54% | 0.05 | 13 | \$382 | 38% | 0.4 |
| FE-Met Ed | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Education | High Bay Lighting | ROB | Fixture | 544 | 54% | 0.07 | 13 | \$382 | 38% | 0.5 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Education | High Bay Lighting | Early | Fixture | 1,235 | 18% | 0.05 | 13 | \$487 | 25% | 0.3 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Education | High Bay Lighting | Early | Fixture | 1,291 | 22% | 0.06 | 13 | \$487 | 28% | 0.4 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | Early | Fixture | 2,855 | 65% | 0.4 | 13 | \$487 | 36% | 2.6 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Education | High Bay Lighting | New | Fixture | 938 | 18% | 0.04 | 13 | \$16 | 25% | 7.2 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | New | Fixture | 2,170 | 65% | 0.3 | 13 | \$18 | 36% | 52.4 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Education | High Bay Lighting | ROB | Fixture | 1,235 | 18% | 0.05 | 13 | \$16 | 25% | 9.5 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | ROB | Fixture | 2,855 | 65% | 0.4 | 13 | \$18 | 36% | 68.9 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Education | High Bay Lighting | Early | Fixture | 1,235 | 1.5% | 0.00 | 13 | \$557 | 19% | 0.0 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Education | High Bay Lighting | Early | Fixture | 1,271 | 4.3% | 0.01 | 13 | \$557 | 19% | 0.1 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | Early | Fixture | 2,855 | 57% | 0.4 | 13 | \$557 | 19% | 2.0 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Education | High Bay Lighting | New | Fixture | 938 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | New | Fixture | 2,170 | 57% | 0.3 | 13 | \$88 | 19% | 9.7 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Education | High Bay Lighting | ROB | Fixture | 1,235 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | ROB | Fixture | 2,855 | 57% | 0.4 | 13 | \$88 | 19% | 12.8 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Education | High Bay Lighting | Early | Fixture | 524 | 29% | 0.02 | 13 | \$492 | 71% | 0.2 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Education | High Bay Lighting | Early | Fixture | 438 | 15% | 0.01 | 13 | \$492 | 95% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|---|-----------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Education | High Bay Lighting | Early | Fixture | 651 | 43% | 0.04 | 13 | \$492 | 95% | 0.4 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Education | High Bay Lighting | Early | Fixture | 604 | 38% | 0.04 | 13 | \$492 | 95% | 0.3 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Education | High Bay Lighting | New | Fixture | 333 | 15% | 0.01 | 13 | \$25 | 95% | 1.3 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Education | High Bay Lighting | New | Fixture | 495 | 43% | 0.03 | 13 | \$51 | 95% | 2.6 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Education | High Bay Lighting | ROB | Fixture | 438 | 15% | 0.01 | 13 | \$25 | 95% | 1.7 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Education | High Bay Lighting | ROB | Fixture | 651 | 43% | 0.04 | 13 | \$51 | 95% | 3.4 |
| FE-Met Ed | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Education | High Bay Lighting | Early | lamp | 66 | 16% | 0.00 | 15 | \$7.7 | 99% | 1.1 |
| FE-Met Ed | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Education | High Bay Lighting | New | lamp | 39 | 13% | 0.00 | 15 | \$1.6 | 91% | 2.5 |
| FE-Met Ed | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Education | High Bay Lighting | ROB | lamp | 64 | 13% | 0.00 | 15 | \$1.6 | 91% | 4.0 |
| FE-Met Ed | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Education | High Bay Lighting | Early | Fixture | 2,921 | 23% | 0.2 | 13 | \$613 | 5% | 0.7 |
| FE-Met Ed | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Education | High Bay Lighting | Early | Fixture | 2,295 | 1.6% | 0.01 | 13 | \$613 | 28% | 0.0 |
| FE-Met Ed | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Education | High Bay Lighting | Early | Fixture | 5,709 | 60% | 0.8 | 13 | \$613 | 18% | 3.9 |
| FE-Met Ed | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Education | High Bay Lighting | New | Fixture | 2,220 | 23% | 0.1 | 13 | \$96 | 5% | 3.6 |
| FE-Met Ed | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Education | High Bay Lighting | ROB | Fixture | 2,921 | 23% | 0.2 | 13 | \$96 | 5% | 4.7 |
| FE-Met Ed | Auto Off Time Switch | Lighting w/ No Controls | Education | High Bay Lighting | Existing | building | 7,197 | 24% | 0.2 | 8 | \$3,237 | 13% | 0.2 |
| FE-Met Ed | Auto Off Time Switch | Lighting w/ No Controls | Education | High Bay Lighting | New | building | 7,197 | 6.9% | 0.07 | 8 | \$3,237 | 0% | 0.1 |
| FE-Met Ed | Central Lighting Control System | Lighting w/ No Controls | Education | High Bay Lighting | Existing | building | 7,197 | 38% | 0.4 | 8 | \$3,237 | 13% | 0.3 |
| FE-Met Ed | Central Lighting Control System | Lighting w/ No Controls | Education | High Bay Lighting | New | building | 7,197 | 14% | 0.1 | 8 | \$3,237 | 13% | 0.1 |
| FE-Met Ed | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Education | High Bay Lighting | New | building | 7,197 | 10% | 0.1 | 15 | \$35,171 | 32% | 0.0 |
| FE-Met Ed | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Education | High Bay Lighting | New | building | 7,197 | 15% | 0.2 | 15 | \$87,927 | 32% | 0.0 |
| FE-Met Ed | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Education | High Bay Lighting | New | building | 7,197 | 30% | 0.3 | 15 | \$126,028 | 32% | 0.0 |
| FE-Met Ed | Indoor Daylight Sensors | Lighting w/ No Controls | Education | High Bay Lighting | Existing | building | 7,197 | 28% | 0.3 | 8 | \$15,932 | 13% | 0.1 |
| FE-Met Ed | Indoor Daylight Sensors | Lighting w/ No Controls | Education | High Bay Lighting | New | building | 7,197 | 4.0% | 0.04 | 8 | \$15,932 | 0% | 0.0 |
| FE-Met Ed | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Education | High Bay Lighting | Early | Fixture | 2,921 | 92% | 0.6 | 13 | \$1,916 | 95% | 1.0 |
| FE-Met Ed | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | Early | Fixture | 5,709 | 96% | 1.2 | 13 | \$1,916 | 95% | 2.0 |
| FE-Met Ed | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Education | High Bay Lighting | New | Fixture | 2,220 | 92% | 0.5 | 13 | \$1,468 | 95% | 1.0 |
| FE-Met Ed | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | New | Fixture | 4,339 | 96% | 0.9 | 13 | \$1,149 | 95% | 2.5 |
| FE-Met Ed | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Education | High Bay Lighting | ROB | Fixture | 2,921 | 92% | 0.6 | 13 | \$1,468 | 95% | 1.3 |
| FE-Met Ed | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | ROB | Fixture | 5,709 | 96% | 1.2 | 13 | \$1,149 | 95% | 3.3 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Education | High Bay Lighting | Early | Fixture | 969 | 67% | 0.1 | 13 | \$960 | 95% | 0.5 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Education | High Bay Lighting | Early | Fixture | 2,855 | 89% | 0.6 | 13 | \$960 | 95% | 1.8 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Education | High Bay Lighting | Early | Fixture | 783 | 59% | 0.1 | 13 | \$960 | 95% | 0.3 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Education | High Bay Lighting | New | Fixture | 737 | 67% | 0.1 | 13 | \$480 | 95% | 0.7 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Education | High Bay Lighting | New | Fixture | 2,170 | 89% | 0.4 | 13 | \$491 | 95% | 2.7 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Education | High Bay Lighting | New | Fixture | 595 | 59% | 0.08 | 13 | \$406 | 95% | 0.6 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Education | High Bay Lighting | ROB | Fixture | 969 | 67% | 0.1 | 13 | \$480 | 95% | 0.9 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Education | High Bay Lighting | ROB | Fixture | 2,855 | 89% | 0.6 | 13 | \$491 | 95% | 3.5 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Education | High Bay Lighting | ROB | Fixture | 783 | 59% | 0.1 | 13 | \$406 | 95% | 0.8 |
| FE-Met Ed | Occupancy Sensor | Lighting w/ No Controls | Education | High Bay Lighting | Existing | building | 7,197 | 24% | 0.2 | 8 | \$4,877 | 11% | 0.1 |
| FE-Met Ed | Occupancy Sensor | Lighting w/ No Controls | Education | High Bay Lighting | New | building | 7,197 | 6.9% | 0.07 | 8 | \$4,877 | 0% | 0.0 |
| FE-Met Ed | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Education | High Bay Lighting | Existing | building | 7,197 | 28% | 0.3 | 8 | \$15,932 | 11% | 0.1 |
| FE-Met Ed | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Education | High Bay Lighting | New | building | 7,197 | 4.0% | 0.04 | 8 | \$15,932 | 0% | 0.0 |
| FE-Met Ed | Time Clock Control | Lighting w/ No Controls | Education | High Bay Lighting | Existing | building | 7,197 | 28% | 0.3 | 8 | \$3,237 | 13% | 0.3 |
| FE-Met Ed | Time Clock Control | Lighting w/ No Controls | Education | High Bay Lighting | New | building | 7,197 | 4.0% | 0.04 | 8 | \$3,237 | 0% | 0.0 |
| FE-Met Ed | Auto Off Time Switch | Lighting w/ No Controls | Education | Lin. Fluor. Lighting | Existing | building | 86,191 | 24% | 0.2 | 8 | \$3,237 | 13% | 2.1 |
| FE-Met Ed | Auto Off Time Switch | Lighting w/ No Controls | Education | Lin. Fluor. Lighting | New | building | 86,191 | 7.0% | 0.07 | 8 | \$3,237 | 0% | 0.6 |
| FE-Met Ed | Central Lighting Control System | Lighting w/ No Controls | Education | Lin. Fluor. Lighting | Existing | building | 86,191 | 38% | 0.4 | 8 | \$3,237 | 12% | 3.4 |
| FE-Met Ed | Central Lighting Control System | Lighting w/ No Controls | Education | Lin. Fluor. Lighting | New | building | 86,191 | 14% | 0.1 | 8 | \$3,237 | 12% | 1.3 |
| FE-Met Ed | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Education | Lin. Fluor. Lighting | New | building | 86,191 | 10% | 0.1 | 15 | \$35,171 | 32% | 0.1 |
| FE-Met Ed | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Education | Lin. Fluor. Lighting | New | building | 86,191 | 15% | 0.2 | 15 | \$87,927 | 32% | 0.1 |
| FE-Met Ed | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Education | Lin. Fluor. Lighting | New | building | 86,191 | 30% | 0.3 | 15 | \$126,028 | 32% | 0.1 |
| FE-Met Ed | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Education | Lin. Fluor. Lighting | Early | Lamp | 133 | 38% | 0.01 | 15 | \$7.3 | 94% | 5.4 |
| FE-Met Ed | Indoor Daylight Sensors | Lighting w/ No Controls | Education | Lin. Fluor. Lighting | Existing | building | 86,191 | 28% | 0.3 | 8 | \$15,932 | 13% | 0.5 |
| FE-Met Ed | Indoor Daylight Sensors | Lighting w/ No Controls | Education | Lin. Fluor. Lighting | New | building | 86,191 | 4.1% | 0.04 | 8 | \$15,932 | 0% | 0.1 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Education | Lin. Fluor. Lighting | Early | Lamp | 63 | 19% | 0.00 | 15 | \$35 | 94% | 0.3 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 40W T12 Lamp, Magnetic Ballast | Education | Lin. Fluor. Lighting | Early | Lamp | 137 | 63% | 0.02 | 15 | \$35 | 94% | 1.9 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Education | Lin. Fluor. Lighting | Early | Lamp | 77 | 34% | 0.01 | 15 | \$35 | 94% | 0.6 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Education | Lin. Fluor. Lighting | Early | Lamp | 75 | 32% | 0.00 | 15 | \$35 | 94% | 0.5 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Education | Lin. Fluor. Lighting | New | Lamp | 48 | 19% | 0.00 | 15 | \$28 | 94% | 0.3 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Education | Lin. Fluor. Lighting | New | Lamp | 57 | 32% | 0.00 | 15 | \$29 | 94% | 0.5 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Education | Lin. Fluor. Lighting | New | Lamp | 59 | 34% | 0.00 | 15 | \$22 | 94% | 0.7 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Education | Lin. Fluor. Lighting | New | Lamp | 57 | 32% | 0.00 | 15 | \$29 | 94% | 0.5 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Education | Lin. Fluor. Lighting | ROB | Lamp | 63 | 19% | 0.00 | 15 | \$28 | 94% | 0.3 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Education | Lin. Fluor. Lighting | ROB | Lamp | 75 | 32% | 0.00 | 15 | \$29 | 94% | 0.6 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Education | Lin. Fluor. Lighting | ROB | Lamp | 77 | 34% | 0.01 | 15 | \$22 | 94% | 0.9 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Education | Lin. Fluor. Lighting | ROB | Lamp | 75 | 32% | 0.00 | 15 | \$29 | 94% | 0.6 |
| FE-Met Ed | Occupancy Sensor | Lighting w/ No Controls | Education | Lin. Fluor. Lighting | Existing | building | 86,191 | 24% | 0.2 | 8 | \$4,877 | 12% | 1.4 |
| FE-Met Ed | Occupancy Sensor | Lighting w/ No Controls | Education | Lin. Fluor. Lighting | New | building | 86,191 | 7.0% | 0.07 | 8 | \$4,877 | 0% | 0.4 |
| FE-Met Ed | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Education | Lin. Fluor. Lighting | Existing | building | 86,191 | 28% | 0.3 | 8 | \$15,932 | 11% | 0.5 |
| FE-Met Ed | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Education | Lin. Fluor. Lighting | New | building | 86,191 | 4.1% | 0.04 | 8 | \$15,932 | 0% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|--|-----------|---------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Education | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 24.5 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Education | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 24.7 |
| FE-Met Ed | Energy Efficient Laboratory Fume Hood | Std. Fume Hood | Education | Motors | New | measure | 62,400 | 0.4% | 0.00 | 15 | \$62 | 60% | 2.2 |
| FE-Met Ed | Energy Efficient Laboratory Fume Hood | Std. Fume Hood | Education | Motors | ROB | measure | 62,400 | 0.4% | 0.00 | 15 | \$62 | 60% | 2.2 |
| FE-Met Ed | Escalator Motor Controller | Constant power control | Education | Motors | New | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 22% | 6.3 |
| FE-Met Ed | Escalator Motor Controller | Constant power control | Education | Motors | ROB | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 22% | 6.3 |
| FE-Met Ed | Fan Motor - correct sizing | Incorrect Fan Motor Sizing | Education | Motors | ROB | measure | 60,857 | 1.6% | 0.1 | 15 | \$50 | 92% | 13.4 |
| FE-Met Ed | Variable Speed Drive Control, 15HP | Existing Motors w/out VSD Drive | Education | Motors | Early | motor | 38,510 | 70% | 4.0 | 15 | \$731 | 86% | 25.8 |
| FE-Met Ed | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Education | Motors | New | motor | 37,682 | 72% | 4.0 | 15 | \$731 | 86% | 25.8 |
| FE-Met Ed | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Education | Motors | ROB | motor | 37,682 | 72% | 4.0 | 15 | \$731 | 86% | 25.9 |
| FE-Met Ed | Variable Speed Drive Control, 40HP | Existing Motors w/out VSD Drive | Education | Motors | Early | motor | 100,486 | 71% | 10.5 | 15 | \$4,666 | 86% | 10.7 |
| FE-Met Ed | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Education | Motors | New | motor | 99,311 | 72% | 10.5 | 15 | \$4,666 | 86% | 10.7 |
| FE-Met Ed | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Education | Motors | ROB | motor | 99,311 | 72% | 10.5 | 15 | \$4,666 | 86% | 10.7 |
| FE-Met Ed | Variable Speed Drive Control, 5HP | Existing Motors w/out VFD Drive | Education | Motors | Early | motor | 13,350 | 72% | 1.4 | 15 | \$2,243 | 86% | 3.0 |
| FE-Met Ed | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Education | Motors | New | motor | 13,052 | 72% | 1.4 | 15 | \$2,243 | 86% | 2.9 |
| FE-Met Ed | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Education | Motors | ROB | motor | 13,052 | 72% | 1.4 | 15 | \$2,243 | 86% | 2.9 |
| FE-Met Ed | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Education | Motors | Early | motor | 68,319 | 1.6% | 0.1 | 15 | \$268 | 40% | 2.8 |
| FE-Met Ed | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Education | Motors | New | motor | 68,319 | 1.6% | 0.1 | 15 | \$268 | 40% | 2.8 |
| FE-Met Ed | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Education | Motors | ROB | motor | 68,319 | 1.6% | 0.1 | 15 | \$268 | 40% | 2.8 |
| FE-Met Ed | VFD on Chilled Water Pump | Motor w/out VFD Drive | Education | Motors | Early | motor | 33,241 | 55% | 2.7 | 15 | \$2,903 | 86% | 4.3 |
| FE-Met Ed | VFD on Chilled Water Pump | Motor w/out VFD Drive | Education | Motors | New | motor | 32,619 | 55% | 2.7 | 15 | \$2,843 | 86% | 4.3 |
| FE-Met Ed | VFD on Chilled Water Pump | Motor w/out VFD Drive | Education | Motors | ROB | motor | 32,619 | 55% | 2.7 | 15 | \$2,843 | 86% | 4.3 |
| FE-Met Ed | VFD on Condenser Water Pump | Motor w/out VFD Drive | Education | Motors | Early | motor | 34,961 | 32% | 3.2 | 15 | \$2,903 | 86% | 3.2 |
| FE-Met Ed | VFD on Condenser Water Pump | Motor w/out VFD Drive | Education | Motors | New | motor | 34,307 | 33% | 3.1 | 15 | \$2,843 | 86% | 3.2 |
| FE-Met Ed | VFD on Condenser Water Pump | Motor w/out VFD Drive | Education | Motors | ROB | motor | 34,307 | 33% | 3.1 | 15 | \$2,843 | 86% | 3.2 |
| FE-Met Ed | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Education | Motors | Early | motor | 36,760 | 56% | 0.00 | 15 | \$2,903 | 86% | 3.8 |
| FE-Met Ed | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Education | Motors | New | motor | 36,073 | 57% | 0.00 | 15 | \$2,843 | 86% | 3.9 |
| FE-Met Ed | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Education | Motors | ROB | motor | 36,073 | 57% | 0.00 | 15 | \$2,843 | 86% | 3.9 |
| FE-Met Ed | VFD on HVAC Fan | Motor w/out VFD | Education | Motors | Early | motor | 37,199 | 70% | 3.4 | 15 | \$2,903 | 86% | 6.2 |
| FE-Met Ed | VFD on HVAC Fan | Motor w/out VFD | Education | Motors | New | motor | 36,503 | 72% | 3.3 | 15 | \$2,843 | 86% | 6.3 |
| FE-Met Ed | VFD on HVAC Fan | Motor w/out VFD | Education | Motors | ROB | motor | 36,503 | 72% | 3.3 | 15 | \$2,843 | 86% | 6.3 |
| FE-Met Ed | Elevators | Std. Eff Elevator | Education | Other | ROB | measure | 89,016 | 1.8% | 0.1 | 15 | \$379 | 81% | 2.6 |
| FE-Met Ed | Variable Speed Drives on Process Equipment | Constant speed control | Education | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 11.3 |
| FE-Met Ed | Variable Speed Drives on Process Equipment | Constant speed control | Education | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 11.3 |
| FE-Met Ed | Auto Off Time Switch | Lighting w/ No Controls | Education | Other Int. Lighting | Existing | building | 10,285 | 24% | 0.2 | 8 | \$3,237 | 13% | 0.3 |
| FE-Met Ed | Auto Off Time Switch | Lighting w/ No Controls | Education | Other Int. Lighting | New | building | 10,285 | 7.0% | 0.07 | 8 | \$3,237 | 0% | 0.1 |
| FE-Met Ed | Central Lighting Control System | Lighting w/ No Controls | Education | Other Int. Lighting | Existing | building | 10,285 | 38% | 0.4 | 8 | \$3,237 | 13% | 0.5 |
| FE-Met Ed | Central Lighting Control System | Lighting w/ No Controls | Education | Other Int. Lighting | New | building | 10,285 | 14% | 0.1 | 8 | \$3,237 | 13% | 0.2 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 40W Incandescent Bulb | Education | Other Int. Lighting | Early | lamp | 145 | 87% | 0.03 | 11 | \$30 | 14% | 2.4 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Education | Other Int. Lighting | Early | lamp | 104 | 81% | 0.02 | 11 | \$30 | 11% | 1.6 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Education | Other Int. Lighting | New | lamp | 79 | 81% | 0.01 | 11 | \$21 | 14% | 1.8 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Education | Other Int. Lighting | New | lamp | 79 | 81% | 0.01 | 11 | \$23 | 14% | 1.6 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Education | Other Int. Lighting | New | lamp | 79 | 81% | 0.01 | 11 | \$22 | 11% | 1.7 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Education | Other Int. Lighting | ROB | lamp | 104 | 81% | 0.02 | 11 | \$21 | 14% | 2.3 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Education | Other Int. Lighting | ROB | lamp | 104 | 81% | 0.02 | 11 | \$23 | 14% | 2.2 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Education | Other Int. Lighting | ROB | lamp | 104 | 81% | 0.02 | 11 | \$22 | 11% | 2.2 |
| FE-Met Ed | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Education | Other Int. Lighting | Early | lamp | 145 | 75% | 0.02 | 4 | \$73 | 24% | 0.4 |
| FE-Met Ed | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Education | Other Int. Lighting | New | fixture | 157 | 65% | 0.02 | 13 | \$29 | 28% | 2.4 |
| FE-Met Ed | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Education | Other Int. Lighting | New | lamp | 79 | 65% | 0.01 | 4 | \$29 | 28% | 0.4 |
| FE-Met Ed | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Education | Other Int. Lighting | ROB | fixture | 207 | 65% | 0.03 | 13 | \$29 | 24% | 3.1 |
| FE-Met Ed | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Education | Other Int. Lighting | ROB | lamp | 104 | 65% | 0.01 | 4 | \$29 | 24% | 0.6 |
| FE-Met Ed | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Education | Other Int. Lighting | Early | lamp | 145 | 75% | 0.02 | 4 | \$3.2 | 24% | 8.4 |
| FE-Met Ed | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Education | Other Int. Lighting | New | lamp | 79 | 65% | 0.01 | 4 | \$1.8 | 24% | 7.2 |
| FE-Met Ed | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Education | Other Int. Lighting | ROB | lamp | 104 | 65% | 0.01 | 4 | \$1.8 | 24% | 9.4 |
| FE-Met Ed | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Education | Other Int. Lighting | ROB | lamp | 104 | 65% | 0.01 | 4 | \$1.8 | 24% | 9.4 |
| FE-Met Ed | Exit Sign Retrofit: CFL replacing Incandescent | One 23W Single Sided Incandescent Exit Sign | Education | Other Int. Lighting | Early | exit sign | 139 | 42% | 0.01 | 15 | \$48 | 22% | 0.8 |
| FE-Met Ed | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Education | Other Int. Lighting | New | building | 10,285 | 10% | 0.1 | 15 | \$35,171 | 32% | 0.0 |
| FE-Met Ed | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Education | Other Int. Lighting | New | building | 10,285 | 15% | 0.2 | 15 | \$87,927 | 32% | 0.0 |
| FE-Met Ed | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Education | Other Int. Lighting | New | building | 10,285 | 30% | 0.3 | 15 | \$126,028 | 32% | 0.0 |
| FE-Met Ed | Indoor Daylight Sensors | Lighting w/ No Controls | Education | Other Int. Lighting | Existing | building | 10,285 | 28% | 0.3 | 8 | \$15,932 | 13% | 0.1 |
| FE-Met Ed | Indoor Daylight Sensors | Lighting w/ No Controls | Education | Other Int. Lighting | New | building | 10,285 | 4.1% | 0.04 | 8 | \$15,932 | 0% | 0.0 |
| FE-Met Ed | LED Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Education | Other Int. Lighting | Early | sign | 153 | 87% | 0.02 | 15 | \$48 | 16% | 1.9 |
| FE-Met Ed | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Education | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 2.1 |
| FE-Met Ed | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Education | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 2.1 |
| FE-Met Ed | LED Task Lighting/Screw-In | 1 15W CFL bulb | Education | Other Int. Lighting | Early | lamp | 45 | 33% | 0.00 | 8 | \$9.6 | 24% | 0.6 |
| FE-Met Ed | LED Task Lighting/Screw-In | 1 60W Incandescent Bulb | Education | Other Int. Lighting | Early | lamp | 179 | 83% | 0.02 | 8 | \$9.6 | 24% | 6.5 |
| FE-Met Ed | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Education | Other Int. Lighting | New | lamp | 98 | 77% | 0.01 | 8 | \$7.9 | 24% | 3.9 |
| FE-Met Ed | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Education | Other Int. Lighting | New | lamp | 98 | 77% | 0.01 | 8 | \$7.9 | 24% | 3.9 |
| FE-Met Ed | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Education | Other Int. Lighting | ROB | lamp | 129 | 77% | 0.01 | 8 | \$7.9 | 24% | 5.2 |
| FE-Met Ed | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Education | Other Int. Lighting | ROB | lamp | 129 | 77% | 0.01 | 8 | \$7.9 | 24% | 5.2 |
| FE-Met Ed | Occupancy Sensor | Lighting w/ No Controls | Education | Other Int. Lighting | Existing | building | 10,285 | 24% | 0.2 | 8 | \$4,877 | 11% | 0.2 |
| FE-Met Ed | Occupancy Sensor | Lighting w/ No Controls | Education | Other Int. Lighting | New | building | 10,285 | 7.0% | 0.07 | 8 | \$4,877 | 0% | 0.1 |
| FE-Met Ed | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Education | Other Int. Lighting | Existing | building | 10,285 | 28% | 0.3 | 8 | \$15,932 | 11% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|--|---|-----------|---------------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Education | Other Int. Lighting | New | building | 10,285 | 4.1% | 0.04 | 8 | \$15,932 | 0% | 0.0 |
| FE-Met Ed | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Education | Other Int. Lighting | Early | exit sign | 139 | 100% | 0.02 | 15 | \$173 | 26% | 0.5 |
| FE-Met Ed | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Education | Other Int. Lighting | New | exit sign | 80 | 100% | 0.01 | 15 | \$148 | 31% | 0.4 |
| FE-Met Ed | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Education | Other Int. Lighting | ROB | exit sign | 80 | 100% | 0.01 | 15 | \$148 | 26% | 0.4 |
| FE-Met Ed | Time Clock Control | Lighting w/ No Controls | Education | Other Int. Lighting | Existing | building | 10,285 | 28% | 0.3 | 8 | \$3,237 | 13% | 0.3 |
| FE-Met Ed | Time Clock Control | Lighting w/ No Controls | Education | Other Int. Lighting | New | building | 10,285 | 4.1% | 0.04 | 8 | \$3,237 | 0% | 0.1 |
| FE-Met Ed | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Education | Plug Load | Existing | building | 5,323 | 46% | 0.5 | 5 | \$189 | 4% | 3.7 |
| FE-Met Ed | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Education | Plug Load | New | building | 5,323 | 46% | 0.5 | 5 | \$189 | 4% | 3.7 |
| FE-Met Ed | Data Center - Server/Storage Consolidation | No Consolidation | Education | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Met Ed | Data Center - Server/Storage Consolidation | No Consolidation | Education | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Met Ed | Data Center - Server/Storage Virtualization | No Virtualization | Education | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Met Ed | Data Center - Server/Storage Virtualization | No Virtualization | Education | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Met Ed | Energy Star - Scanners | Std Scanner | Education | Plug Load | New | measure | 68 | 3.9% | 0.04 | 4 | \$777 | 7% | 0.0 |
| FE-Met Ed | Energy Star - Scanners | Std Scanner | Education | Plug Load | ROB | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| FE-Met Ed | Energy Star Dishwasher | Existing Dishwasher units | Education | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,580 | 6% | 1.1 |
| FE-Met Ed | Energy Star Dishwasher | Standard Dishwasher unit | Education | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 6% | 3.5 |
| FE-Met Ed | Energy Star Dishwasher | Standard Dishwasher unit | Education | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 6% | 3.5 |
| FE-Met Ed | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Education | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 17% | 0.2 |
| FE-Met Ed | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Education | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.1 |
| FE-Met Ed | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Education | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.1 |
| FE-Met Ed | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Education | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 9% | 0.8 |
| FE-Met Ed | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Education | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.7 |
| FE-Met Ed | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Education | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.7 |
| FE-Met Ed | ENERGY STAR® Copiers | 10% Less Efficient Copier | Education | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 18% | 0.0 |
| FE-Met Ed | ENERGY STAR® Copiers | One Conventional Copier | Education | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| FE-Met Ed | ENERGY STAR® Copiers | One Conventional Copier | Education | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| FE-Met Ed | ENERGY STAR® desktop | Standard computer | Education | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 69% | 0.1 |
| FE-Met Ed | ENERGY STAR® desktop | Standard computer | Education | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.4 |
| FE-Met Ed | ENERGY STAR® desktop | Standard computer | Education | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.4 |
| FE-Met Ed | ENERGY STAR® Fax | 10% Less Efficient Fax | Education | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 15% | 0.0 |
| FE-Met Ed | ENERGY STAR® Fax | One Conventional Fax | Education | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| FE-Met Ed | ENERGY STAR® Fax | One Conventional Fax | Education | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| FE-Met Ed | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Education | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 70% | 0.0 |
| FE-Met Ed | ENERGY STAR® Monitors | One Conventional Monitor | Education | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| FE-Met Ed | ENERGY STAR® Monitors | One Conventional Monitor | Education | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| FE-Met Ed | ENERGY STAR® Printers | 10% Less Efficient Printer | Education | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 44% | 0.0 |
| FE-Met Ed | ENERGY STAR® Printers | One Conventional Printer | Education | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.4 |
| FE-Met Ed | ENERGY STAR® Printers | One Conventional Printer | Education | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$1,426 | 44% | 0.0 |
| FE-Met Ed | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Education | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 43% | 0.1 |
| FE-Met Ed | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Education | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.8 |
| FE-Met Ed | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Education | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.8 |
| FE-Met Ed | ENERGY STAR® Televisions | 10% Less Efficient Television | Education | Plug Load | Early | Unit | 185 | 38% | 0.01 | 6 | \$672 | 40% | 0.0 |
| FE-Met Ed | ENERGY STAR® Televisions | One Conventional Television | Education | Plug Load | New | Unit | 168 | 32% | 0.01 | 6 | \$206 | 40% | 0.1 |
| FE-Met Ed | ENERGY STAR® Televisions | One Conventional Television | Education | Plug Load | ROB | Unit | 168 | 32% | 0.01 | 6 | \$206 | 40% | 0.1 |
| FE-Met Ed | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Education | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 24% | 0.3 |
| FE-Met Ed | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Education | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.7 |
| FE-Met Ed | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Education | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.7 |
| FE-Met Ed | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Education | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.3 |
| FE-Met Ed | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Education | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.3 |
| FE-Met Ed | Network PC Power Management | No PC Power Management | Education | Plug Load | Existing | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 51.6 |
| FE-Met Ed | Network PC Power Management | No PC Power Management | Education | Plug Load | New | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 51.6 |
| FE-Met Ed | Smart Strip Plug Outlets | Standard plug strip/outlet | Education | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.5 |
| FE-Met Ed | Smart Strip Plug Outlets | Standard plug strip/outlet | Education | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.5 |
| FE-Met Ed | Smart Strip Plug Outlets | Standard plug strip/outlet | Education | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Met Ed | Smart Strip Plug Outlets | Standard plug strip/outlet | Education | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Met Ed | Smart Strip Plug Outlets | Standard plug strip/outlet | Education | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Met Ed | Smart Strip Plug Outlets | Standard plug strip/outlet | Education | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Met Ed | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Education | Plug Load | Existing | building | 5,323 | 46% | 0.5 | 5 | \$180 | 3% | 3.9 |
| FE-Met Ed | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Education | Plug Load | New | building | 5,323 | 46% | 0.5 | 5 | \$180 | 3% | 3.9 |
| FE-Met Ed | Air curtain technology | Strip plastic curtain | Education | Refrigeration | New | building | 21,560 | 6.8% | 0.07 | 8 | \$2,604 | 35% | 0.2 |
| FE-Met Ed | Air curtain technology | Strip plastic curtain | Education | Refrigeration | New | building | 12,377 | 6.8% | 0.07 | 8 | \$2,653 | 35% | 0.1 |
| FE-Met Ed | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Education | Refrigeration | Existing | building | 4,392 | 0.7% | 0.01 | 12 | \$70 | 11% | 0.3 |
| FE-Met Ed | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Education | Refrigeration | New | building | 4,392 | 0.7% | 0.01 | 12 | \$70 | 11% | 0.3 |
| FE-Met Ed | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Education | Refrigeration | Existing | building | 4,392 | 7.0% | 0.07 | 12 | \$70 | 11% | 2.7 |
| FE-Met Ed | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Education | Refrigeration | New | building | 4,392 | 7.0% | 0.07 | 12 | \$70 | 11% | 2.7 |
| FE-Met Ed | Auto Closer on Refrigerator Door | Door w/out Autocloser | Education | Refrigeration | Existing | building | 12,377 | 6.4% | 0.06 | 8 | \$698 | 40% | 0.4 |
| FE-Met Ed | Auto Closer on Refrigerator Door | Door w/out Autocloser | Education | Refrigeration | Existing | building | 21,560 | 2.9% | 0.03 | 8 | \$559 | 40% | 0.4 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|--|-----------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Auto Closer on Refrigerator Door | Door w/out Autocloser | Education | Refrigeration | New | building | 12,377 | 6.4% | 0.06 | 8 | \$698 | 40% | 0.4 |
| FE-Met Ed | Auto Closer on Refrigerator Door | Door w/out Autocloser | Education | Refrigeration | New | building | 21,560 | 2.9% | 0.03 | 8 | \$559 | 40% | 0.4 |
| FE-Met Ed | Demand Hot Gas Defrost | Base Refrigeration System | Education | Refrigeration | Existing | measure | 4,392 | 3.0% | 0.03 | 10 | \$1,287 | 0% | 0.1 |
| FE-Met Ed | Demand Hot Gas Defrost | Base Refrigeration System | Education | Refrigeration | New | measure | 4,392 | 3.0% | 0.03 | 10 | \$1,287 | 0% | 0.1 |
| FE-Met Ed | Door Gasket- Freezer | Door w/out Gasket | Education | Refrigeration | Existing | building | 12,377 | 3.5% | 0.04 | 4 | \$72 | 29% | 1.2 |
| FE-Met Ed | Door Gasket- Freezer | Door w/out Gasket | Education | Refrigeration | New | building | 12,377 | 3.7% | 0.04 | 4 | \$72 | 29% | 1.3 |
| FE-Met Ed | Door Gasket- Refrigerator | Door w/out Gasket | Education | Refrigeration | Existing | building | 21,560 | 0.9% | 0.01 | 4 | \$77 | 45% | 0.5 |
| FE-Met Ed | Door Gasket- Refrigerator | Door w/out Gasket | Education | Refrigeration | New | building | 21,560 | 0.9% | 0.01 | 4 | \$77 | 45% | 0.5 |
| FE-Met Ed | Economizer for Walk-in Coolers | No Economizer | Education | Refrigeration | Early | measure | 39,466 | 6.6% | 0.4 | 10 | \$459 | 72% | 2.7 |
| FE-Met Ed | Economizer for Walk-in Coolers | No Economizer | Education | Refrigeration | Early | measure | 39,466 | 6.6% | 0.4 | 10 | \$459 | 72% | 2.7 |
| FE-Met Ed | Economizer for Walk-in Coolers | No Economizer | Education | Refrigeration | Early | measure | 39,466 | 6.6% | 0.4 | 10 | \$459 | 72% | 2.7 |
| FE-Met Ed | Economizer for Walk-in Coolers | No Economizer | Education | Refrigeration | New | measure | 39,466 | 6.6% | 0.4 | 10 | \$54 | 72% | 23.1 |
| FE-Met Ed | Economizer for Walk-in Coolers | No Economizer | Education | Refrigeration | New | measure | 39,466 | 6.6% | 0.4 | 10 | \$54 | 72% | 23.2 |
| FE-Met Ed | Economizer for Walk-in Coolers | No Economizer | Education | Refrigeration | New | measure | 39,466 | 6.6% | 0.4 | 10 | \$54 | 72% | 23.2 |
| FE-Met Ed | Economizer for Walk-in Coolers | No Economizer | Education | Refrigeration | ROB | measure | 39,466 | 6.6% | 0.4 | 10 | \$54 | 72% | 23.1 |
| FE-Met Ed | Economizer for Walk-in Coolers | No Economizer | Education | Refrigeration | ROB | measure | 39,466 | 6.6% | 0.4 | 10 | \$54 | 72% | 23.2 |
| FE-Met Ed | Economizer for Walk-in Coolers | No Economizer | Education | Refrigeration | ROB | measure | 39,466 | 6.6% | 0.4 | 10 | \$54 | 72% | 23.2 |
| FE-Met Ed | eCube | Refrigeration unit w/out eCube | Education | Refrigeration | Existing | building | 21,560 | 15% | 0.2 | 15 | \$1,164 | 57% | 1.6 |
| FE-Met Ed | eCube | Refrigeration unit w/out eCube | Education | Refrigeration | New | building | 21,560 | 15% | 0.2 | 15 | \$1,164 | 57% | 1.6 |
| FE-Met Ed | Efficient compressor motor | Base Refrigeration System - Grocery | Education | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| FE-Met Ed | Efficient compressor motor | Base Refrigeration System - Grocery | Education | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| FE-Met Ed | Efficient compressor motor | Base Refrigeration System - Grocery | Education | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| FE-Met Ed | Efficient compressor motor | Base Refrigeration System - Grocery | Education | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| FE-Met Ed | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Education | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.6 |
| FE-Met Ed | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Education | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| FE-Met Ed | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Education | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| FE-Met Ed | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Education | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.3 |
| FE-Met Ed | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Education | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.8 |
| FE-Met Ed | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Education | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.8 |
| FE-Met Ed | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Education | Refrigeration | Existing | building | 21,560 | 1.3% | 0.01 | 10 | \$369 | 77% | 0.3 |
| FE-Met Ed | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Education | Refrigeration | New | building | 21,560 | 1.3% | 0.01 | 10 | \$369 | 77% | 0.3 |
| FE-Met Ed | Floating head pressure controller | System w/out FHPC | Education | Refrigeration | Existing | building | 12,377 | 1.9% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-Met Ed | Floating head pressure controller | System w/out FHPC | Education | Refrigeration | Existing | building | 4,392 | 2.1% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| FE-Met Ed | Floating head pressure controller | System w/out FHPC | Education | Refrigeration | Existing | building | 21,560 | 0.4% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| FE-Met Ed | Floating head pressure controller | System w/out FHPC | Education | Refrigeration | New | building | 12,377 | 1.9% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-Met Ed | Floating head pressure controller | System w/out FHPC | Education | Refrigeration | New | building | 4,392 | 2.1% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| FE-Met Ed | Floating head pressure controller | System w/out FHPC | Education | Refrigeration | New | building | 21,560 | 0.4% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| FE-Met Ed | High Efficiency Commercial Freezer | Std. Commercial Freezer | Education | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 86% | 0.3 |
| FE-Met Ed | High Efficiency Commercial Freezer | Std. Commercial Freezer | Education | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 4.1 |
| FE-Met Ed | High Efficiency Commercial Freezer | Std. Commercial Freezer | Education | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 4.1 |
| FE-Met Ed | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Education | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 21% | 0.1 |
| FE-Met Ed | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Education | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 21% | 0.9 |
| FE-Met Ed | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Education | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 21% | 0.9 |
| FE-Met Ed | High Efficiency Ice Maker | Existing Standard Efficiency Ice Maker in Pennsylvania | Education | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 73% | 0.2 |
| FE-Met Ed | High Efficiency Ice Maker | Standard code minimum Ice Maker | Education | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| FE-Met Ed | High Efficiency Ice Maker | Standard code minimum Ice Maker | Education | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| FE-Met Ed | High Efficiency Ice Making Head | Standard Ice Making Head | Education | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 4.0 |
| FE-Met Ed | High Efficiency Ice Making Head | Standard Ice Making Head | Education | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 4.0 |
| FE-Met Ed | High R-Value Glass Doors | Base Refrigeration System - Grocery | Education | Refrigeration | Existing | building | 4,392 | 0.7% | 0.01 | 10 | \$57 | 0% | 0.3 |
| FE-Met Ed | High R-Value Glass Doors | Base Refrigeration System - Grocery | Education | Refrigeration | New | building | 4,392 | 0.7% | 0.01 | 10 | \$57 | 0% | 0.3 |
| FE-Met Ed | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Education | Refrigeration | Early | Fixture | 373 | 56% | 0.02 | 8 | \$448 | 66% | 0.2 |
| FE-Met Ed | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Education | Refrigeration | New | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 66% | 0.3 |
| FE-Met Ed | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Education | Refrigeration | ROB | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 66% | 0.3 |
| FE-Met Ed | No-heat glass doors | Standard low-temp reach-in | Education | Refrigeration | Existing | building | 4,392 | 20% | 0.2 | 10 | \$5,212 | 8% | 0.1 |
| FE-Met Ed | No-heat glass doors | Standard low-temp reach-in | Education | Refrigeration | New | building | 4,392 | 20% | 0.2 | 10 | \$5,212 | 8% | 0.1 |
| FE-Met Ed | Quick acting freezer doors | Std. Freezer Doors | Education | Refrigeration | Existing | building | 12,377 | 13% | 0.1 | 10 | \$3,201 | 56% | 0.2 |
| FE-Met Ed | Quick acting freezer doors | Std. Freezer Doors | Education | Refrigeration | New | building | 12,377 | 13% | 0.1 | 10 | \$3,201 | 56% | 0.2 |
| FE-Met Ed | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Education | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 30% | 0.4 |
| FE-Met Ed | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Education | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.6 |
| FE-Met Ed | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Education | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.6 |
| FE-Met Ed | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 30% | 1.7 |
| FE-Met Ed | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 3.0 |
| FE-Met Ed | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 3.0 |
| FE-Met Ed | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 30% | 1.7 |
| FE-Met Ed | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 4.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|---|-----------|-----------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 4.0 |
| FE-Met Ed | Refrigeration Commissioning | Non-commissioned refrigeration system | Education | Refrigeration | Existing | building | 39,926 | 9.5% | 0.10 | 3 | \$8,955 | 85% | 0.1 |
| FE-Met Ed | Refrigeration Commissioning | Non-commissioned refrigeration system | Education | Refrigeration | New | building | 39,926 | 9.5% | 0.10 | 3 | \$8,955 | 85% | 0.1 |
| FE-Met Ed | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Education | Refrigeration | Existing | building | 12,377 | 8.2% | 0.08 | 4 | \$87 | 22% | 2.3 |
| FE-Met Ed | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Education | Refrigeration | Existing | building | 21,560 | 1.3% | 0.01 | 4 | \$94 | 22% | 0.6 |
| FE-Met Ed | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Education | Refrigeration | New | building | 12,377 | 8.2% | 0.08 | 4 | \$87 | 22% | 2.3 |
| FE-Met Ed | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Education | Refrigeration | New | building | 21,560 | 1.3% | 0.01 | 4 | \$94 | 22% | 0.6 |
| FE-Met Ed | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Education | Refrigeration | Existing | building | 12,377 | 1.9% | 0.02 | 11 | \$148 | 79% | 0.7 |
| FE-Met Ed | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Education | Refrigeration | New | building | 12,377 | 1.9% | 0.02 | 11 | \$148 | 79% | 0.7 |
| FE-Met Ed | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Education | Refrigeration | Existing | building | 21,560 | 1.4% | 0.01 | 11 | \$148 | 79% | 0.9 |
| FE-Met Ed | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Education | Refrigeration | New | building | 21,560 | 1.4% | 0.01 | 11 | \$148 | 79% | 0.9 |
| FE-Met Ed | Vertical Night Covers | Display cases w/out night covers-High Temperature | Education | Refrigeration | Existing | building | 4,392 | 0.2% | 0.00 | 5 | \$66 | 9% | 0.0 |
| FE-Met Ed | Vertical Night Covers | Display cases w/out night covers-High Temperature | Education | Refrigeration | New | building | 4,392 | 0.2% | 0.00 | 5 | \$66 | 9% | 0.0 |
| FE-Met Ed | VSD Controlled Compressor | Compressor w/out VSD | Education | Refrigeration | Early | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 63% | 0.2 |
| FE-Met Ed | VSD Controlled Compressor | Compressor w/out VSD | Education | Refrigeration | New | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 63% | 0.2 |
| FE-Met Ed | VSD Controlled Compressor | Compressor w/out VSD | Education | Refrigeration | ROB | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 63% | 0.2 |
| FE-Met Ed | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Education | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$269 | 35% | 0.9 |
| FE-Met Ed | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Education | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$269 | 35% | 0.9 |
| FE-Met Ed | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Education | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.2 |
| FE-Met Ed | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Education | Refrigeration | New | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 3.0 |
| FE-Met Ed | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Education | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.2 |
| FE-Met Ed | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Education | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 3.0 |
| FE-Met Ed | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 35% | 2.4 |
| FE-Met Ed | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 35% | 2.3 |
| FE-Met Ed | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 5.2 |
| FE-Met Ed | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.9 |
| FE-Met Ed | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 5.2 |
| FE-Met Ed | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.9 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Education | Space Heating | Existing | building | 31,735 | 7.1% | 0.07 | 6 | \$19,312 | 82% | 0.0 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Education | Space Heating | New | building | 31,735 | 7.1% | 0.07 | 6 | \$19,312 | 82% | 0.0 |
| FE-Met Ed | Adding window shade film | No shade film | Education | Space Heating | Existing | building | 31,735 | 1.3% | 0.4 | 10 | \$386 | 13% | 1.1 |
| FE-Met Ed | Adding window shade film | No shade film | Education | Space Heating | New | building | 31,735 | 1.3% | 0.4 | 10 | \$386 | 13% | 1.1 |
| FE-Met Ed | Adding window shade screen | No shade screen | Education | Space Heating | Existing | building | 31,735 | 1.1% | 0.01 | 10 | \$149 | 13% | 0.9 |
| FE-Met Ed | Adding window shade screen | No shade screen | Education | Space Heating | New | building | 31,735 | 1.1% | 0.01 | 10 | \$149 | 13% | 0.9 |
| FE-Met Ed | Automated control system | Manual Controls | Education | Space Heating | Existing | building | 31,735 | 17% | 0.2 | 15 | \$34,743 | 51% | 0.1 |
| FE-Met Ed | Automated control system | Manual Controls | Education | Space Heating | New | building | 31,735 | 17% | 0.2 | 15 | \$34,743 | 94% | 0.1 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Education | Space Heating | Existing | building | 31,735 | 1.6% | 0.02 | 15 | \$26,439 | 71% | 0.0 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Education | Space Heating | New | building | 31,735 | 0.5% | 0.01 | 15 | \$25,131 | 94% | 0.0 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Education | Space Heating | Existing | building | 31,735 | 1.4% | 0.04 | 15 | \$252 | 20% | 1.1 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Education | Space Heating | New | building | 31,735 | 1.4% | 0.04 | 15 | \$252 | 10% | 1.1 |
| FE-Met Ed | Efficient Unit Heating System | Existing Unit Heaters in PA | Education | Space Heating | Early | heater | 20,342 | 23% | 0.03 | 15 | \$3,289 | 83% | 0.8 |
| FE-Met Ed | Efficient Unit Heating System | Std. Unit Heater | Education | Space Heating | New | heater | 18,054 | 13% | 0.02 | 15 | \$1,991 | 83% | 0.6 |
| FE-Met Ed | Efficient Unit Heating System | Std. Unit Heater | Education | Space Heating | ROB | heater | 18,054 | 13% | 0.02 | 15 | \$1,991 | 83% | 0.6 |
| FE-Met Ed | Facility Commissioning | No Facility Commissioning | Education | Space Heating | New | building | 31,735 | 16% | 0.2 | 10 | \$5,244 | 89% | 0.4 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Education | Space Heating | Existing | building | 31,735 | 7.1% | 0.07 | 15 | \$140,771 | 25% | 0.0 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Education | Space Heating | New | building | 31,735 | 7.1% | 0.07 | 15 | \$140,771 | 35% | 0.0 |
| FE-Met Ed | Hi Eff HVAC System Design | No HVAC Design | Education | Space Heating | New | building | 31,735 | 14% | 0.1 | 10 | \$77,827 | 51% | 0.0 |
| FE-Met Ed | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Education | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 1.1 |
| FE-Met Ed | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Education | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 1.0 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Education | Space Heating | Existing | building | 31,735 | 3.5% | 0.04 | 10 | \$7,735 | 81% | 0.1 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Education | Space Heating | New | building | 31,735 | 3.5% | 0.04 | 10 | \$7,735 | 81% | 0.1 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Education | Space Heating | Existing | building | 31,735 | 3.6% | 0.04 | 11 | \$286 | 49% | 1.7 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Education | Space Heating | New | building | 31,735 | 3.1% | 0.03 | 11 | \$146 | 49% | 2.9 |
| FE-Met Ed | Re-Commissioning (Existing Construction) | No Re-Commissioning | Education | Space Heating | Existing | building | 31,735 | 16% | 0.2 | 5 | \$9,680 | 86% | 0.1 |
| FE-Met Ed | VFD on Cooling Tower Fan | Motor w/out VFD | Education | Space Heating | Early | motor | 37,199 | 70% | 3.4 | 15 | \$2,843 | 88% | 6.0 |
| FE-Met Ed | VFD on Cooling Tower Fan | Motor w/out VFD | Education | Space Heating | New | motor | 36,503 | 72% | 3.3 | 15 | \$2,843 | 88% | 5.9 |
| FE-Met Ed | VFD on Cooling Tower Fan | Motor w/out VFD | Education | Space Heating | ROB | motor | 36,503 | 72% | 3.3 | 15 | \$2,843 | 88% | 5.9 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Education | Space Heating | Existing | building | 31,735 | 3.6% | 0.04 | 15 | \$6,377 | 26% | 0.1 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Education | Space Heating | New | building | 31,735 | 0.1% | 0.00 | 15 | \$4,891 | 94% | 0.0 |
| FE-Met Ed | Green LED Traffic Light | Green Incandescent Traffic Light | Education | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 0% | 1.3 |
| FE-Met Ed | Green LED Traffic Light | Green Incandescent Traffic Light | Education | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.2 |
| FE-Met Ed | Green LED Traffic Light | Green Incandescent Traffic Light | Education | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.2 |
| FE-Met Ed | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Education | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 0% | 3.1 |
| FE-Met Ed | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Education | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|--|---|-----------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Education | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-Met Ed | Induction Street Lighting | One 100W HPS Street Light Fixture | Education | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 0% | 0.3 |
| FE-Met Ed | Induction Street Lighting | One 100W HPS Street Light Fixture | Education | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.8 |
| FE-Met Ed | Induction Street Lighting | One 100W HPS Street Light Fixture | Education | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.8 |
| FE-Met Ed | LED Street Lighting | One 100W HPS Street Light | Education | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 0% | 0.2 |
| FE-Met Ed | LED Street Lighting | One 100W HPS Street Light | Education | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-Met Ed | LED Street Lighting | One 100W HPS Street Light | Education | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-Met Ed | Red LED Traffic Light | One Red Incandescent Traffic Light | Education | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 0% | 1.7 |
| FE-Met Ed | Red LED Traffic Light | One Red Incandescent Traffic Light | Education | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| FE-Met Ed | Red LED Traffic Light | One Red Incandescent Traffic Light | Education | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| FE-Met Ed | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Education | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 0% | 0.1 |
| FE-Met Ed | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Education | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-Met Ed | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Education | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-Met Ed | Demand controlled Circulating Systems | Constant circulation system | Education | Water Heating | Existing | building | 29,722 | 20% | 0.2 | 15 | \$5,393 | 59% | 0.7 |
| FE-Met Ed | Demand controlled Circulating Systems | Constant circulation system | Education | Water Heating | New | building | 29,722 | 20% | 0.2 | 15 | \$7,244 | 59% | 0.5 |
| FE-Met Ed | Drainwater Heat Recovery Water Heater | No heat recovery | Education | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 2.0 |
| FE-Met Ed | Drainwater Heat Recovery Water Heater | No heat recovery | Education | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 2.0 |
| FE-Met Ed | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Education | Water Heating | Existing | building | 29,722 | 5.9% | 0.06 | 12 | \$210 | 85% | 4.0 |
| FE-Met Ed | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Education | Water Heating | New | building | 29,722 | 5.9% | 0.06 | 12 | \$60 | 85% | 14.2 |
| FE-Met Ed | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Education | Water Heating | Early | water heater | 46,899 | 66% | 5.5 | 10 | \$2,375 | 68% | 6.8 |
| FE-Met Ed | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Education | Water Heating | Early | water heater | 46,899 | 66% | 5.5 | 10 | \$2,375 | 68% | 6.8 |
| FE-Met Ed | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Education | Water Heating | New | water heater | 46,899 | 66% | 5.5 | 10 | \$2,375 | 68% | 6.8 |
| FE-Met Ed | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Education | Water Heating | New | water heater | 46,899 | 66% | 5.5 | 10 | \$2,375 | 68% | 6.8 |
| FE-Met Ed | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Education | Water Heating | ROB | water heater | 45,596 | 65% | 5.3 | 10 | \$2,375 | 68% | 6.5 |
| FE-Met Ed | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Education | Water Heating | ROB | water heater | 45,596 | 65% | 5.3 | 10 | \$2,375 | 68% | 6.5 |
| FE-Met Ed | Heat Recovery Unit | Base Water Heating | Education | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.7 |
| FE-Met Ed | Heat Recovery Unit | Base Water Heating | Education | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.7 |
| FE-Met Ed | Heat Trap | No Heat Trap | Education | Water Heating | Existing | building | 29,722 | 22% | 0.2 | 11 | \$202 | 50% | 14.7 |
| FE-Met Ed | Heat Trap | No Heat Trap | Education | Water Heating | New | building | 29,722 | 22% | 0.2 | 11 | \$30 | 50% | 98.6 |
| FE-Met Ed | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Education | Water Heating | Early | water heater | 46,899 | 5.9% | 0.5 | 15 | \$614 | 79% | 3.3 |
| FE-Met Ed | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Education | Water Heating | Early | water heater | 46,899 | 5.9% | 0.5 | 15 | \$614 | 79% | 3.3 |
| FE-Met Ed | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Education | Water Heating | New | water heater | 45,596 | 3.2% | 0.3 | 15 | \$614 | 79% | 1.7 |
| FE-Met Ed | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Education | Water Heating | New | water heater | 45,596 | 3.2% | 0.3 | 15 | \$614 | 79% | 1.7 |
| FE-Met Ed | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Education | Water Heating | ROB | water heater | 45,596 | 3.2% | 0.3 | 15 | \$614 | 79% | 1.7 |
| FE-Met Ed | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Education | Water Heating | ROB | water heater | 45,596 | 3.2% | 0.3 | 15 | \$614 | 79% | 1.7 |
| FE-Met Ed | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Education | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$466 | 81% | 41.0 |
| FE-Met Ed | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Education | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 21.4 |
| FE-Met Ed | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Education | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 21.4 |
| FE-Met Ed | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Education | Water Heating | Existing | building | 29,722 | 0.4% | 0.00 | 13 | \$16 | 68% | 3.9 |
| FE-Met Ed | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Education | Water Heating | New | building | 29,722 | 0.4% | 0.00 | 13 | \$16 | 0% | 4.0 |
| FE-Met Ed | Hot Water Circulation Pump Time-Clock | Constant circulation system | Education | Water Heating | Existing | building | 29,722 | 5.3% | 0.05 | 10 | \$120 | 72% | 5.5 |
| FE-Met Ed | Hot Water Circulation Pump Time-Clock | Constant circulation system | Education | Water Heating | New | building | 29,722 | 5.3% | 0.05 | 10 | \$120 | 72% | 5.5 |
| FE-Met Ed | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Education | Water Heating | Existing | building | 29,722 | 0.2% | 0.00 | 7 | \$22 | 78% | 0.9 |
| FE-Met Ed | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Education | Water Heating | New | building | 29,722 | 0.2% | 0.00 | 7 | \$0.5 | 78% | 40.0 |
| FE-Met Ed | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Education | Water Heating | Existing | building | 29,722 | 0.6% | 0.01 | 5 | \$300 | 20% | 0.1 |
| FE-Met Ed | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Education | Water Heating | New | building | 29,722 | 0.4% | 0.00 | 5 | \$194 | 20% | 0.1 |
| FE-Met Ed | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Education | Water Heating | Existing | building | 29,722 | 6.5% | 0.07 | 9 | \$200 | 2% | 3.7 |
| FE-Met Ed | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Education | Water Heating | New | building | 29,722 | 6.5% | 0.07 | 9 | \$48 | 2% | 15.5 |
| FE-Met Ed | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Education | Water Heating | Early | water heater | 46,899 | 52% | 2.0 | 15 | \$12,444 | 32% | 1.3 |
| FE-Met Ed | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Education | Water Heating | New | water heater | 45,596 | 51% | 1.9 | 15 | \$12,444 | 32% | 1.2 |
| FE-Met Ed | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Education | Water Heating | ROB | water heater | 45,596 | 51% | 1.9 | 15 | \$12,444 | 32% | 1.2 |
| FE-Met Ed | Ultrasonic Faucet Control | Manual Faucet Control | Education | Water Heating | Existing | building | 29,722 | 3.0% | 0.03 | 10 | \$5,140 | 77% | 0.1 |
| FE-Met Ed | Ultrasonic Faucet Control | Manual Faucet Control | Education | Water Heating | New | building | 29,722 | 3.0% | 0.03 | 10 | \$5,140 | 77% | 0.1 |
| FE-Met Ed | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Education | Water Heating | Existing | building | 29,722 | 2.2% | 0.02 | 4 | \$28 | 83% | 4.6 |
| FE-Met Ed | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Education | Water Heating | New | building | 29,722 | 2.3% | 0.02 | 4 | \$28 | 83% | 4.8 |
| FE-Met Ed | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Gov't | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.2 |
| FE-Met Ed | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Gov't | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.2 |
| FE-Met Ed | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Gov't | Cooking | Early | steamer | 51 | 46% | 0.00 | 12 | \$5,053 | 81% | 0.0 |
| FE-Met Ed | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Gov't | Cooking | New | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-Met Ed | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Gov't | Cooking | ROB | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-Met Ed | Electric combination oven (Energy Star) | Standard Oven | Gov't | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 3.1 |
| FE-Met Ed | Electric combination oven (Energy Star) | Standard Oven | Gov't | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 3.1 |
| FE-Met Ed | Electric Convection Oven | Conventional convection oven w/ 65% efficiency | Gov't | Cooking | Early | oven | 8,641 | 37% | 0.6 | 12 | \$4,119 | 81% | 0.5 |
| FE-Met Ed | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Gov't | Cooking | New | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.8 |
| FE-Met Ed | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Gov't | Cooking | ROB | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.8 |
| FE-Met Ed | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Gov't | Cooking | Early | fryer | 6,105 | 23% | 0.3 | 12 | \$9,241 | 86% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|--|---|---------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Gov't | Cooking | New | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.4 |
| FE-Met Ed | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Gov't | Cooking | ROB | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.4 |
| FE-Met Ed | High Efficiency Griddle (ENERGY STAR) | Efficiency code minimum griddle (70% eff) | Gov't | Cooking | Early | griddle | 11,317 | 65% | 1.4 | 12 | \$4,977 | 86% | 0.9 |
| FE-Met Ed | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Gov't | Cooking | New | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.3 |
| FE-Met Ed | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Gov't | Cooking | ROB | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.3 |
| FE-Met Ed | High Efficiency Induction Cooking | Standard Cooking | Gov't | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-Met Ed | High Efficiency Induction Cooking | Standard Cooking | Gov't | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-Met Ed | Active chilled beam cooling | No Active Chilled beam cooling | Gov't | Cooling Central | New | building | 2,798 | 5.3% | 0.05 | 15 | \$731 | 72% | 0.2 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Gov't | Cooling Central | Existing | building | 2,945 | 7.0% | 0.07 | 6 | \$12,513 | 82% | 0.0 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Gov't | Cooling Central | New | building | 2,945 | 7.0% | 0.07 | 6 | \$12,513 | 82% | 0.0 |
| FE-Met Ed | Adding window shade film | No shade film | Gov't | Cooling Central | Existing | building | 2,945 | 1.3% | 0.4 | 10 | \$36 | 12% | 7.8 |
| FE-Met Ed | Adding window shade film | No shade film | Gov't | Cooling Central | New | building | 2,945 | 1.3% | 0.4 | 10 | \$36 | 13% | 7.8 |
| FE-Met Ed | Adding window shade screen | No shade screen | Gov't | Cooling Central | Existing | building | 2,945 | 1.1% | 0.01 | 10 | \$14 | 13% | 1.4 |
| FE-Met Ed | Adding window shade screen | No shade screen | Gov't | Cooling Central | New | building | 2,945 | 1.0% | 0.01 | 10 | \$14 | 13% | 1.4 |
| FE-Met Ed | Automated control system | Manual Controls | Gov't | Cooling Central | Existing | building | 2,945 | 17% | 0.2 | 15 | \$3,224 | 51% | 0.1 |
| FE-Met Ed | Automated control system | Manual Controls | Gov't | Cooling Central | New | building | 2,945 | 17% | 0.2 | 15 | \$3,224 | 94% | 0.1 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Gov't | Cooling Central | Existing | building | 2,945 | 3.4% | 0.03 | 15 | \$17,130 | 71% | 0.0 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Gov't | Cooling Central | New | building | 2,945 | 1.1% | 0.01 | 15 | \$16,283 | 94% | 0.0 |
| FE-Met Ed | Chilled Water Reset, Optimizer System for Chiller(s) | No Chilled Water Reset | Gov't | Cooling Central | Existing | building | 2,945 | 3.7% | 0.04 | 10 | \$13 | 69% | 5.2 |
| FE-Met Ed | Chiller Tune Up Diagnostics | No Chiller Tune Up | Gov't | Cooling Central | Existing | building | 2,945 | 2.3% | 0.02 | 10 | \$2.9 | 59% | 14.6 |
| FE-Met Ed | Chiller Tuneup/Diagnostics | No tuneup | Gov't | Cooling Central | Existing | building | 2,945 | 8.0% | 0.08 | 10 | \$7,520 | 59% | 0.0 |
| FE-Met Ed | Chiller Tuneup/Diagnostics | No tuneup | Gov't | Cooling Central | New | building | 2,945 | 8.0% | 0.08 | 10 | \$7,520 | 59% | 0.0 |
| FE-Met Ed | Cooling Tower Optimization | No Cooling Tower Optimization | Gov't | Cooling Central | Existing | building | 2,945 | 4.9% | 0.05 | 10 | \$13 | 73% | 6.9 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Gov't | Cooling Central | Existing | building | 2,945 | 1.4% | 0.04 | 15 | \$23 | 20% | 2.6 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Gov't | Cooling Central | New | building | 2,945 | 1.4% | 0.04 | 15 | \$23 | 10% | 2.6 |
| FE-Met Ed | Facility Commissioning | No Facility Commissioning | Gov't | Cooling Central | New | building | 2,945 | 16% | 0.2 | 10 | \$140,548 | 89% | 0.0 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Gov't | Cooling Central | Existing | building | 2,945 | 7.0% | 0.07 | 15 | \$13,063 | 25% | 0.0 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Gov't | Cooling Central | New | building | 2,945 | 7.0% | 0.07 | 15 | \$13,063 | 35% | 0.0 |
| FE-Met Ed | Hi Eff HVAC System Design | No HVAC Design | Gov't | Cooling Central | New | building | 2,945 | 7.3% | 0.07 | 10 | \$1,034,775 | 51% | 0.0 |
| FE-Met Ed | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Gov't | Cooling Central | Early | ton | 5,094 | 24% | 0.4 | 15 | \$108,550 | 88% | 0.0 |
| FE-Met Ed | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Gov't | Cooling Central | New | ton | 4,164 | 6.7% | 0.10 | 15 | \$12,927 | 88% | 0.0 |
| FE-Met Ed | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Gov't | Cooling Central | ROB | ton | 4,164 | 6.7% | 0.10 | 15 | \$12,927 | 88% | 0.0 |
| FE-Met Ed | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Gov't | Cooling Central | Early | ton | 7,611 | 23% | 0.6 | 15 | \$140,105 | 88% | 0.0 |
| FE-Met Ed | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Gov't | Cooling Central | New | ton | 6,124 | 4.9% | 0.1 | 15 | \$9,336 | 88% | 0.0 |
| FE-Met Ed | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Gov't | Cooling Central | ROB | ton | 6,124 | 4.9% | 0.1 | 15 | \$9,336 | 88% | 0.0 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Gov't | Cooling Central | Early | ton | 62,308 | 26% | 5.6 | 15 | \$105,354 | 88% | 0.1 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Gov't | Cooling Central | New | ton | 54,288 | 15% | 2.8 | 15 | \$30,530 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Gov't | Cooling Central | ROB | ton | 54,288 | 15% | 2.8 | 15 | \$30,530 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Gov't | Cooling Central | Early | ton | 93,320 | 23% | 7.4 | 15 | \$154,107 | 88% | 0.1 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Gov't | Cooling Central | New | ton | 85,726 | 16% | 4.8 | 15 | \$27,646 | 88% | 0.4 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Gov't | Cooling Central | ROB | ton | 93,320 | 23% | 7.4 | 15 | \$27,646 | 88% | 0.7 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Gov't | Cooling Central | Early | ton | 154,988 | 23% | 12.2 | 15 | \$302,924 | 88% | 0.1 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Gov't | Cooling Central | New | ton | 140,275 | 14% | 7.0 | 15 | \$115,432 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Gov't | Cooling Central | ROB | ton | 154,988 | 23% | 12.2 | 15 | \$115,432 | 88% | 0.3 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Gov't | Cooling Central | Early | ton | 185,985 | 23% | 14.6 | 15 | \$350,154 | 88% | 0.1 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Gov't | Cooling Central | New | ton | 168,330 | 14% | 8.5 | 15 | \$120,406 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Gov't | Cooling Central | ROB | ton | 185,985 | 23% | 14.6 | 15 | \$120,406 | 88% | 0.3 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Gov't | Cooling Central | Early | ton | 41,225 | 29% | 4.2 | 15 | \$83,632 | 88% | 0.1 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Gov't | Cooling Central | New | ton | 32,011 | 8.9% | 1.0 | 15 | \$40,211 | 88% | 0.1 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Gov't | Cooling Central | ROB | ton | 41,225 | 29% | 4.2 | 15 | \$40,211 | 88% | 0.3 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Gov't | Cooling Central | Early | ton | 70,835 | 35% | 8.6 | 15 | \$132,173 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Gov't | Cooling Central | New | ton | 52,831 | 13% | 2.3 | 15 | \$39,556 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Gov't | Cooling Central | ROB | ton | 52,831 | 13% | 2.3 | 15 | \$39,556 | 88% | 0.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|--|---|---------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Gov't | Cooling Central | Early | ton | 118,265 | 39% | 16.1 | 15 | \$187,029 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Gov't | Cooling Central | New | ton | 84,321 | 15% | 4.3 | 15 | \$33,554 | 88% | 0.3 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Gov't | Cooling Central | ROB | ton | 118,265 | 39% | 16.1 | 15 | \$33,554 | 88% | 1.2 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Gov't | Cooling Central | Early | ton | 20,695 | 30% | 2.1 | 15 | \$32,398 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Gov't | Cooling Central | New | ton | 16,396 | 11% | 0.6 | 15 | \$7,188 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Gov't | Cooling Central | ROB | ton | 20,695 | 30% | 2.1 | 15 | \$7,188 | 88% | 0.8 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Gov't | Cooling Central | Existing | building | 2,945 | 1.0% | 0.01 | 10 | \$41,268 | 81% | 0.0 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Gov't | Cooling Central | New | building | 2,945 | 1.0% | 0.01 | 10 | \$41,268 | 81% | 0.0 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Gov't | Cooling Central | Existing | building | 2,945 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.1 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Gov't | Cooling Central | New | building | 2,945 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.2 |
| FE-Met Ed | Re-Commissioning (Existing Construction) | No Re-Commissioning | Gov't | Cooling Central | Existing | building | 2,945 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Gov't | Cooling Central | Existing | building | 2,945 | 6.0% | 0.06 | 15 | \$3,285 | 26% | 0.0 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Gov't | Cooling Central | New | building | 2,945 | 0.2% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| FE-Met Ed | <65k BTU/hr 14 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Gov't | Cooling Unitary | Early | ton | 2,507 | 16% | 0.3 | 15 | \$1,545 | 29% | 0.3 |
| FE-Met Ed | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Gov't | Cooling Unitary | New | ton | 2,271 | 7.1% | 0.1 | 15 | \$339 | 29% | 0.6 |
| FE-Met Ed | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Gov't | Cooling Unitary | ROB | ton | 2,271 | 7.1% | 0.1 | 15 | \$339 | 29% | 0.6 |
| FE-Met Ed | <65k BTU/hr 15 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Gov't | Cooling Unitary | Early | ton | 2,507 | 22% | 0.4 | 15 | \$1,821 | 30% | 0.4 |
| FE-Met Ed | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Gov't | Cooling Unitary | New | ton | 2,271 | 13% | 0.2 | 15 | \$714 | 30% | 0.5 |
| FE-Met Ed | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Gov't | Cooling Unitary | ROB | ton | 2,271 | 13% | 0.2 | 15 | \$714 | 30% | 0.5 |
| FE-Met Ed | <65k BTU/hr 16 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Gov't | Cooling Unitary | Early | ton | 2,507 | 26% | 0.5 | 15 | \$2,098 | 31% | 0.4 |
| FE-Met Ed | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Gov't | Cooling Unitary | New | ton | 2,271 | 19% | 0.3 | 15 | \$1,089 | 31% | 0.5 |
| FE-Met Ed | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Gov't | Cooling Unitary | ROB | ton | 2,271 | 19% | 0.3 | 15 | \$1,089 | 31% | 0.5 |
| FE-Met Ed | >760k min 10.2 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Gov't | Cooling Unitary | Early | ton | 63,434 | 3.7% | 1.7 | 15 | \$68,066 | 56% | 0.0 |
| FE-Met Ed | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Gov't | Cooling Unitary | New | ton | 64,247 | 4.9% | 2.3 | 15 | \$6,231 | 56% | 0.6 |
| FE-Met Ed | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Gov't | Cooling Unitary | ROB | ton | 64,247 | 4.9% | 2.3 | 15 | \$6,231 | 56% | 0.6 |
| FE-Met Ed | 135-240k min 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Gov't | Cooling Unitary | Early | ton | 15,608 | 18% | 2.1 | 15 | \$18,135 | 79% | 0.2 |
| FE-Met Ed | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Gov't | Cooling Unitary | New | ton | 14,198 | 10.0% | 1.0 | 15 | \$1,948 | 79% | 0.9 |
| FE-Met Ed | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Gov't | Cooling Unitary | ROB | ton | 14,198 | 10.0% | 1.0 | 15 | \$1,948 | 79% | 0.9 |
| FE-Met Ed | 240k-760k min 11 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Gov't | Cooling Unitary | Early | ton | 41,733 | 9.0% | 2.8 | 15 | \$44,809 | 66% | 0.1 |
| FE-Met Ed | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Gov't | Cooling Unitary | New | ton | 41,837 | 9.3% | 2.8 | 15 | \$4,796 | 66% | 1.0 |
| FE-Met Ed | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Gov't | Cooling Unitary | ROB | ton | 41,837 | 9.3% | 2.8 | 15 | \$4,796 | 66% | 1.0 |
| FE-Met Ed | 65k-135k BTU/hr 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Gov't | Cooling Unitary | Early | ton | 9,201 | 17% | 1.1 | 15 | \$10,946 | 86% | 0.2 |
| FE-Met Ed | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Gov't | Cooling Unitary | New | ton | 8,200 | 6.7% | 0.4 | 15 | \$1,392 | 86% | 0.5 |
| FE-Met Ed | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Gov't | Cooling Unitary | ROB | ton | 8,200 | 6.7% | 0.4 | 15 | \$1,392 | 86% | 0.5 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Gov't | Cooling Unitary | Existing | building | 43,716 | 7.1% | 0.07 | 6 | \$12,513 | 82% | 0.1 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Gov't | Cooling Unitary | New | building | 43,716 | 7.1% | 0.07 | 6 | \$12,513 | 82% | 0.1 |
| FE-Met Ed | Adding window shade film | No shade film | Gov't | Cooling Unitary | Existing | building | 43,716 | 1.3% | 0.4 | 10 | \$532 | 12% | 0.9 |
| FE-Met Ed | Adding window shade film | No shade film | Gov't | Cooling Unitary | New | building | 43,716 | 1.3% | 0.4 | 10 | \$532 | 13% | 0.9 |
| FE-Met Ed | Adding window shade screen | No shade screen | Gov't | Cooling Unitary | Existing | building | 43,716 | 1.1% | 0.01 | 10 | \$206 | 12% | 0.9 |
| FE-Met Ed | Adding window shade screen | No shade screen | Gov't | Cooling Unitary | New | building | 43,716 | 1.1% | 0.01 | 10 | \$206 | 13% | 0.9 |
| FE-Met Ed | Automated control system | Manual Controls | Gov't | Cooling Unitary | Existing | building | 43,716 | 17% | 0.2 | 15 | \$47,859 | 51% | 0.1 |
| FE-Met Ed | Automated control system | Manual Controls | Gov't | Cooling Unitary | New | building | 43,716 | 17% | 0.2 | 15 | \$47,859 | 94% | 0.1 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Gov't | Cooling Unitary | Existing | building | 43,716 | 3.4% | 0.03 | 15 | \$17,130 | 71% | 0.1 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Gov't | Cooling Unitary | New | building | 43,716 | 1.1% | 0.01 | 15 | \$16,283 | 94% | 0.0 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Gov't | Cooling Unitary | Existing | building | 43,716 | 1.4% | 0.04 | 15 | \$347 | 20% | 1.1 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Gov't | Cooling Unitary | New | building | 43,716 | 1.4% | 0.04 | 15 | \$347 | 10% | 1.1 |
| FE-Met Ed | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Gov't | Cooling Unitary | Existing | building | 24,044 | 13% | 0.1 | 1 | \$230 | 73% | 0.8 |
| FE-Met Ed | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Gov't | Cooling Unitary | New | building | 24,044 | 13% | 0.1 | 1 | \$230 | 73% | 0.7 |
| FE-Met Ed | ECM Motors for split systems | Std Shaded Pole Motor | Gov't | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 3.0 |
| FE-Met Ed | ECM Motors for split systems | Std Shaded Pole Motor | Gov't | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 3.0 |
| FE-Met Ed | Facility Commissioning | No Facility Commissioning | Gov't | Cooling Unitary | New | building | 43,716 | 16% | 0.2 | 10 | \$1,297 | 89% | 2.2 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Gov't | Cooling Unitary | Existing | building | 43,716 | 7.1% | 0.07 | 15 | \$193,916 | 25% | 0.0 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Gov't | Cooling Unitary | New | building | 43,716 | 7.1% | 0.07 | 15 | \$193,916 | 35% | 0.0 |
| FE-Met Ed | Hi Eff HVAC System Design | No HVAC Design | Gov't | Cooling Unitary | New | building | 43,716 | 7.3% | 0.07 | 10 | \$13,063 | 51% | 0.1 |
| FE-Met Ed | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Gov't | Cooling Unitary | Existing | building | 43,716 | 5.0% | 0.05 | 5 | \$225 | 59% | 2.2 |
| FE-Met Ed | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Gov't | Cooling Unitary | Existing | building | 43,716 | 0.3% | 0.04 | 5 | \$225 | 51% | 0.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|--|---|---------|-----------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Gov't | Cooling Unitary | New | building | 43,716 | 0.2% | 0.04 | 5 | \$135 | 51% | 0.3 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Gov't | Cooling Unitary | Existing | building | 43,716 | 1.1% | 0.01 | 10 | \$44,351 | 86% | 0.0 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Gov't | Cooling Unitary | New | building | 43,716 | 1.1% | 0.01 | 10 | \$44,351 | 86% | 0.0 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) | Gov't | Cooling Unitary | Existing | building | 43,716 | 2.0% | 0.02 | 11 | \$286 | 49% | 1.4 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Gov't | Cooling Unitary | New | building | 43,716 | 1.7% | 0.02 | 11 | \$146 | 49% | 2.3 |
| FE-Met Ed | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Gov't | Cooling Unitary | Early | unit | 677 | 19% | 0.1 | 15 | \$849 | 85% | 0.2 |
| FE-Met Ed | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Gov't | Cooling Unitary | New | unit | 683 | 20% | 0.1 | 15 | \$356 | 85% | 0.6 |
| FE-Met Ed | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Gov't | Cooling Unitary | ROB | unit | 683 | 20% | 0.1 | 15 | \$356 | 85% | 0.6 |
| FE-Met Ed | Re-Commissioning (Existing Construction) | No Re-Commissioning | Gov't | Cooling Unitary | Existing | building | 43,716 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.2 |
| FE-Met Ed | Room AC (w/ louvered sides) | Existing efficiency Room AC in Pennsylvania (2000 Federal Standards) | Gov't | Cooling Unitary | Early | ton | 1,087 | 13% | 0.05 | 9 | \$348 | 82% | 0.2 |
| FE-Met Ed | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Gov't | Cooling Unitary | New | ton | 985 | 4.5% | 0.02 | 9 | \$17 | 82% | 1.5 |
| FE-Met Ed | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Gov't | Cooling Unitary | ROB | ton | 985 | 4.5% | 0.02 | 9 | \$17 | 82% | 1.5 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Gov't | Cooling Unitary | Existing | building | 43,716 | 6.0% | 0.06 | 15 | \$3,285 | 26% | 0.5 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Gov't | Cooling Unitary | New | building | 43,716 | 0.2% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| FE-Met Ed | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Gov't | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 1.2 |
| FE-Met Ed | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Gov't | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.6 |
| FE-Met Ed | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Gov't | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.6 |
| FE-Met Ed | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Gov't | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 80% | 0.2 |
| FE-Met Ed | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Gov't | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 80% | 0.2 |
| FE-Met Ed | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Gov't | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 80% | 0.2 |
| FE-Met Ed | LED exterior lighting | 250 Watt Incandescent | Gov't | Ext. Lighting | ROB | measure | 282 | 83% | 0.04 | 15 | \$104 | 89% | 1.6 |
| FE-Met Ed | LED exterior lighting | 250 Watt Incandescent | Gov't | Ext. Lighting | ROB | measure | 282 | 83% | 0.04 | 15 | \$104 | 89% | 1.6 |
| FE-Met Ed | LED exterior lighting | 250 Watt Incandescent | Gov't | Ext. Lighting | ROB | measure | 282 | 83% | 0.04 | 15 | \$104 | 89% | 1.6 |
| FE-Met Ed | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Gov't | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 75% | 0.3 |
| FE-Met Ed | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Gov't | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 75% | 0.2 |
| FE-Met Ed | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Gov't | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.9 |
| FE-Met Ed | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Gov't | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.2 |
| FE-Met Ed | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Gov't | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.9 |
| FE-Met Ed | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Gov't | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.2 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Gov't | Heat Pump | Existing | building | 4,541 | 6.9% | 0.07 | 6 | \$12,513 | 82% | 0.0 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Gov't | Heat Pump | New | building | 4,541 | 6.9% | 0.07 | 6 | \$12,513 | 82% | 0.0 |
| FE-Met Ed | Adding window shade film | No shade film | Gov't | Heat Pump | Existing | building | 4,541 | 3.9% | 0.4 | 10 | \$55 | 12% | 6.0 |
| FE-Met Ed | Adding window shade film | No shade film | Gov't | Heat Pump | New | building | 4,541 | 3.9% | 0.4 | 10 | \$55 | 12% | 6.0 |
| FE-Met Ed | Adding window shade screen | No shade screen | Gov't | Heat Pump | Existing | building | 4,541 | 0.3% | 0.01 | 10 | \$7.1 | 12% | 1.8 |
| FE-Met Ed | Adding window shade screen | No shade screen | Gov't | Heat Pump | New | building | 4,541 | 0.3% | 0.01 | 10 | \$7.1 | 12% | 1.8 |
| FE-Met Ed | Automated control system | Manual Controls | Gov't | Heat Pump | Existing | building | 4,541 | 17% | 0.2 | 15 | \$4,972 | 51% | 0.1 |
| FE-Met Ed | Automated control system | Manual Controls | Gov't | Heat Pump | New | building | 4,541 | 17% | 0.2 | 15 | \$4,972 | 94% | 0.1 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Gov't | Heat Pump | Existing | building | 4,541 | 3.4% | 0.03 | 15 | \$17,130 | 71% | 0.0 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Gov't | Heat Pump | New | building | 4,541 | 1.1% | 0.01 | 15 | \$16,283 | 94% | 0.0 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Gov't | Heat Pump | Existing | building | 4,541 | 4.0% | 0.04 | 15 | \$36 | 12% | 3.7 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Gov't | Heat Pump | New | building | 4,541 | 4.0% | 0.04 | 15 | \$36 | 6% | 3.8 |
| FE-Met Ed | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Gov't | Heat Pump | Early | heat pump | 2,431 | 12% | 0.02 | 15 | \$4,070 | 83% | 0.0 |
| FE-Met Ed | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Gov't | Heat Pump | New | heat pump | 2,332 | 7.9% | 0.02 | 15 | \$1,097 | 83% | 0.1 |
| FE-Met Ed | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Gov't | Heat Pump | ROB | heat pump | 2,332 | 7.9% | 0.02 | 15 | \$1,097 | 83% | 0.1 |
| FE-Met Ed | Facility Commissioning | No Facility Commissioning | Gov't | Heat Pump | New | building | 4,541 | 16% | 0.2 | 10 | \$140,548 | 89% | 0.0 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Gov't | Heat Pump | Existing | building | 4,541 | 7.0% | 0.07 | 15 | \$20,145 | 25% | 0.0 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Gov't | Heat Pump | New | building | 4,541 | 7.0% | 0.07 | 15 | \$20,145 | 35% | 0.0 |
| FE-Met Ed | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Gov't | Heat Pump | Early | heat pump | 24,809 | 15% | 0.3 | 15 | \$91,117 | 19% | 0.0 |
| FE-Met Ed | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Gov't | Heat Pump | New | heat pump | 24,024 | 12% | 0.3 | 15 | \$33,927 | 19% | 0.1 |
| FE-Met Ed | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Gov't | Heat Pump | ROB | heat pump | 24,024 | 12% | 0.3 | 15 | \$33,927 | 19% | 0.1 |
| FE-Met Ed | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Gov't | Heat Pump | Early | heat pump | 24,809 | 15% | 0.3 | 15 | \$58,356 | 19% | 0.0 |
| FE-Met Ed | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Gov't | Heat Pump | New | heat pump | 24,024 | 12% | 0.3 | 15 | \$1,167 | 19% | 1.5 |
| FE-Met Ed | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Gov't | Heat Pump | ROB | heat pump | 24,024 | 12% | 0.3 | 15 | \$1,167 | 19% | 1.5 |
| FE-Met Ed | Hi Eff HVAC System Design | No HVAC Design | Gov't | Heat Pump | New | building | 4,541 | 7.3% | 0.07 | 10 | \$1,034,775 | 51% | 0.0 |
| FE-Met Ed | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Gov't | Heat Pump | Early | heat pump | 6,483 | 16% | 0.09 | 12 | \$4,298 | 81% | 0.1 |
| FE-Met Ed | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Gov't | Heat Pump | New | heat pump | 6,218 | 12% | 0.07 | 12 | \$852 | 81% | 0.5 |
| FE-Met Ed | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Gov't | Heat Pump | ROB | heat pump | 6,218 | 12% | 0.07 | 12 | \$852 | 81% | 0.5 |
| FE-Met Ed | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Gov't | Heat Pump | Existing | building | 4,541 | 5.0% | 0.02 | 5 | \$90 | 51% | 0.6 |
| FE-Met Ed | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Gov't | Heat Pump | New | building | 4,541 | 5.0% | 0.02 | 5 | \$90 | 51% | 0.6 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Gov't | Heat Pump | Existing | building | 4,541 | 1.0% | 0.01 | 10 | \$39,486 | 81% | 0.0 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Gov't | Heat Pump | New | building | 4,541 | 1.0% | 0.01 | 10 | \$39,486 | 81% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|---|---------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Gov't | Heat Pump | Existing | building | 4,541 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.2 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Gov't | Heat Pump | New | building | 4,541 | 2.1% | 0.02 | 11 | \$146 | 49% | 0.4 |
| FE-Met Ed | Re-Commissioning (Existing Construction) | No Re-Commissioning | Gov't | Heat Pump | Existing | building | 4,541 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Gov't | Heat Pump | Existing | building | 4,541 | 6.0% | 0.06 | 15 | \$3,285 | 26% | 0.1 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Gov't | Heat Pump | New | building | 4,541 | 0.2% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| FE-Met Ed | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Gov't | Heat Pump | Early | heat pump | 10,524 | 36% | 0.3 | 15 | \$35,347 | 28% | 0.1 |
| FE-Met Ed | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Gov't | Heat Pump | New | heat pump | 10,078 | 34% | 0.3 | 15 | \$15,739 | 28% | 0.1 |
| FE-Met Ed | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Gov't | Heat Pump | ROB | heat pump | 10,078 | 34% | 0.3 | 15 | \$15,739 | 28% | 0.1 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Gov't | High Bay Lighting | Early | Fixture | 299 | 9.6% | 0.01 | 13 | \$850 | 39% | 0.0 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Gov't | High Bay Lighting | Early | Fixture | 299 | 9.5% | 0.01 | 13 | \$850 | 28% | 0.0 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Gov't | High Bay Lighting | Early | Fixture | 461 | 41% | 0.04 | 13 | \$850 | 36% | 0.1 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Gov't | High Bay Lighting | New | Fixture | 227 | 9.6% | 0.00 | 13 | \$372 | 39% | 0.0 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Gov't | High Bay Lighting | New | Fixture | 211 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Gov't | High Bay Lighting | New | Fixture | 350 | 41% | 0.03 | 13 | \$397 | 36% | 0.2 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Gov't | High Bay Lighting | ROB | Fixture | 299 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Gov't | High Bay Lighting | ROB | Fixture | 278 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Gov't | High Bay Lighting | ROB | Fixture | 461 | 41% | 0.04 | 13 | \$397 | 36% | 0.3 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Gov't | High Bay Lighting | Early | Fixture | 580 | 19% | 0.02 | 13 | \$851 | 38% | 0.1 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Gov't | High Bay Lighting | Early | Fixture | 587 | 20% | 0.02 | 13 | \$851 | 38% | 0.1 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | Early | Fixture | 1,708 | 73% | 0.2 | 13 | \$851 | 38% | 1.0 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Gov't | High Bay Lighting | New | Fixture | 441 | 19% | 0.02 | 13 | \$372 | 38% | 0.1 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | New | Fixture | 1,298 | 73% | 0.2 | 13 | \$383 | 38% | 1.6 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Gov't | High Bay Lighting | ROB | Fixture | 580 | 19% | 0.02 | 13 | \$372 | 38% | 0.2 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | ROB | Fixture | 1,708 | 73% | 0.2 | 13 | \$383 | 38% | 2.1 |
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Gov't | High Bay Lighting | Early | Fixture | 580 | 25% | 0.03 | 13 | \$554 | 29% | 0.2 |
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Gov't | High Bay Lighting | Early | Fixture | 569 | 23% | 0.03 | 13 | \$554 | 28% | 0.2 |
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | Early | Fixture | 1,708 | 74% | 0.2 | 13 | \$554 | 36% | 1.5 |
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Gov't | High Bay Lighting | New | Fixture | 441 | 25% | 0.02 | 13 | \$75 | 29% | 1.0 |
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | New | Fixture | 1,298 | 74% | 0.2 | 13 | \$86 | 36% | 7.4 |
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Gov't | High Bay Lighting | ROB | Fixture | 580 | 25% | 0.03 | 13 | \$75 | 29% | 1.3 |
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | ROB | Fixture | 1,708 | 74% | 0.2 | 13 | \$86 | 36% | 9.8 |
| FE-Met Ed | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Gov't | High Bay Lighting | Early | Fixture | 151 | 0.2% | 0.00 | 13 | \$835 | 38% | 0.0 |
| FE-Met Ed | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Gov't | High Bay Lighting | Early | Fixture | 326 | 54% | 0.03 | 13 | \$835 | 38% | 0.1 |
| FE-Met Ed | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Gov't | High Bay Lighting | New | Fixture | 248 | 54% | 0.03 | 13 | \$382 | 38% | 0.2 |
| FE-Met Ed | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Gov't | High Bay Lighting | ROB | Fixture | 326 | 54% | 0.03 | 13 | \$382 | 38% | 0.3 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Gov't | High Bay Lighting | Early | Fixture | 739 | 18% | 0.03 | 13 | \$487 | 25% | 0.2 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Gov't | High Bay Lighting | Early | Fixture | 773 | 22% | 0.03 | 13 | \$487 | 28% | 0.2 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | Early | Fixture | 1,708 | 65% | 0.2 | 13 | \$487 | 36% | 1.5 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Gov't | High Bay Lighting | New | Fixture | 562 | 18% | 0.02 | 13 | \$16 | 25% | 4.1 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | New | Fixture | 1,298 | 65% | 0.2 | 13 | \$18 | 36% | 30.0 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Gov't | High Bay Lighting | ROB | Fixture | 739 | 18% | 0.03 | 13 | \$16 | 25% | 5.5 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | ROB | Fixture | 1,708 | 65% | 0.2 | 13 | \$18 | 36% | 39.5 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Gov't | High Bay Lighting | Early | Fixture | 739 | 1.5% | 0.00 | 13 | \$557 | 19% | 0.0 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Gov't | High Bay Lighting | Early | Fixture | 761 | 4.3% | 0.01 | 13 | \$557 | 19% | 0.0 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | Early | Fixture | 1,708 | 57% | 0.2 | 13 | \$557 | 19% | 1.2 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Gov't | High Bay Lighting | New | Fixture | 562 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | New | Fixture | 1,298 | 57% | 0.1 | 13 | \$88 | 19% | 5.6 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Gov't | High Bay Lighting | ROB | Fixture | 739 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | ROB | Fixture | 1,708 | 57% | 0.2 | 13 | \$88 | 19% | 7.3 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Gov't | High Bay Lighting | Early | Fixture | 314 | 29% | 0.01 | 13 | \$492 | 71% | 0.1 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Gov't | High Bay Lighting | Early | Fixture | 262 | 15% | 0.01 | 13 | \$492 | 95% | 0.0 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Gov't | High Bay Lighting | Early | Fixture | 390 | 43% | 0.02 | 13 | \$492 | 95% | 0.2 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Gov't | High Bay Lighting | Early | Fixture | 361 | 38% | 0.02 | 13 | \$492 | 95% | 0.2 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Gov't | High Bay Lighting | New | Fixture | 199 | 15% | 0.00 | 13 | \$25 | 95% | 0.7 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Gov't | High Bay Lighting | New | Fixture | 296 | 43% | 0.02 | 13 | \$51 | 95% | 1.5 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Gov't | High Bay Lighting | ROB | Fixture | 262 | 15% | 0.01 | 13 | \$25 | 95% | 1.0 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Gov't | High Bay Lighting | ROB | Fixture | 390 | 43% | 0.02 | 13 | \$51 | 95% | 2.0 |
| FE-Met Ed | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Gov't | High Bay Lighting | Early | lamp | 114 | 16% | 0.00 | 9 | \$7.7 | 99% | 1.1 |
| FE-Met Ed | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Gov't | High Bay Lighting | New | lamp | 68 | 13% | 0.00 | 9 | \$1.6 | 91% | 2.5 |
| FE-Met Ed | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Gov't | High Bay Lighting | ROB | lamp | 110 | 13% | 0.00 | 9 | \$1.6 | 91% | 4.1 |
| FE-Met Ed | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Gov't | High Bay Lighting | Early | Fixture | 1,748 | 23% | 0.08 | 13 | \$613 | 5% | 0.4 |
| FE-Met Ed | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Gov't | High Bay Lighting | Early | Fixture | 1,373 | 1.6% | 0.00 | 13 | \$613 | 28% | 0.0 |
| FE-Met Ed | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | Early | Fixture | 3,417 | 60% | 0.4 | 13 | \$613 | 18% | 2.2 |
| FE-Met Ed | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Gov't | High Bay Lighting | New | Fixture | 1,329 | 23% | 0.06 | 13 | \$96 | 5% | 2.1 |
| FE-Met Ed | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Gov't | High Bay Lighting | ROB | Fixture | 1,748 | 23% | 0.08 | 13 | \$96 | 5% | 2.7 |
| FE-Met Ed | Auto Off Time Switch | Lighting w/ No Controls | Gov't | High Bay Lighting | Existing | building | 527 | 24% | 0.2 | 8 | \$1,034 | 13% | 0.2 |
| FE-Met Ed | Auto Off Time Switch | Lighting w/ No Controls | Gov't | High Bay Lighting | New | building | 527 | 6.9% | 0.07 | 8 | \$1,034 | 0% | 0.1 |
| FE-Met Ed | Central Lighting Control System | Lighting w/ No Controls | Gov't | High Bay Lighting | Existing | building | 527 | 38% | 0.4 | 8 | \$1,034 | 13% | 0.3 |
| FE-Met Ed | Central Lighting Control System | Lighting w/ No Controls | Gov't | High Bay Lighting | New | building | 527 | 14% | 0.1 | 8 | \$1,034 | 13% | 0.1 |
| FE-Met Ed | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Gov't | High Bay Lighting | New | building | 527 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.0 |
| FE-Met Ed | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Gov't | High Bay Lighting | New | building | 527 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|--|---------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Gov't | High Bay Lighting | New | building | 527 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| FE-Met Ed | Indoor Daylight Sensors | Lighting w/ No Controls | Gov't | High Bay Lighting | Existing | building | 527 | 28% | 0.3 | 8 | \$5,088 | 13% | 0.0 |
| FE-Met Ed | Indoor Daylight Sensors | Lighting w/ No Controls | Gov't | High Bay Lighting | New | building | 527 | 4.0% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| FE-Met Ed | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Gov't | High Bay Lighting | Early | Fixture | 1,748 | 92% | 0.3 | 13 | \$1,916 | 95% | 0.6 |
| FE-Met Ed | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | Early | Fixture | 3,417 | 96% | 0.6 | 13 | \$1,916 | 95% | 1.1 |
| FE-Met Ed | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Gov't | High Bay Lighting | New | Fixture | 1,329 | 92% | 0.2 | 13 | \$1,468 | 95% | 0.5 |
| FE-Met Ed | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | New | Fixture | 2,597 | 96% | 0.5 | 13 | \$1,149 | 95% | 1.4 |
| FE-Met Ed | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Gov't | High Bay Lighting | ROB | Fixture | 1,748 | 92% | 0.3 | 13 | \$1,468 | 95% | 0.7 |
| FE-Met Ed | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | ROB | Fixture | 3,417 | 96% | 0.6 | 13 | \$1,149 | 95% | 1.9 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Gov't | High Bay Lighting | Early | Fixture | 580 | 67% | 0.07 | 13 | \$960 | 95% | 0.3 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Gov't | High Bay Lighting | Early | Fixture | 1,708 | 89% | 0.3 | 13 | \$960 | 95% | 1.0 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Gov't | High Bay Lighting | Early | Fixture | 469 | 59% | 0.05 | 13 | \$960 | 95% | 0.2 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Gov't | High Bay Lighting | New | Fixture | 441 | 67% | 0.06 | 13 | \$480 | 95% | 0.4 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Gov't | High Bay Lighting | New | Fixture | 1,298 | 89% | 0.2 | 13 | \$491 | 95% | 1.5 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Gov't | High Bay Lighting | New | Fixture | 356 | 59% | 0.04 | 13 | \$406 | 95% | 0.3 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Gov't | High Bay Lighting | ROB | Fixture | 580 | 67% | 0.07 | 13 | \$480 | 95% | 0.5 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Gov't | High Bay Lighting | ROB | Fixture | 1,708 | 89% | 0.3 | 13 | \$491 | 95% | 2.0 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Gov't | High Bay Lighting | ROB | Fixture | 469 | 59% | 0.05 | 13 | \$406 | 95% | 0.4 |
| FE-Met Ed | Occupancy Sensor | Lighting w/ No Controls | Gov't | High Bay Lighting | Existing | building | 527 | 24% | 0.2 | 8 | \$1,558 | 11% | 0.1 |
| FE-Met Ed | Occupancy Sensor | Lighting w/ No Controls | Gov't | High Bay Lighting | New | building | 527 | 6.9% | 0.07 | 8 | \$1,558 | 0% | 0.0 |
| FE-Met Ed | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Gov't | High Bay Lighting | Existing | building | 527 | 28% | 0.3 | 8 | \$5,088 | 11% | 0.0 |
| FE-Met Ed | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Gov't | High Bay Lighting | New | building | 527 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| FE-Met Ed | Time Clock Control | Lighting w/ No Controls | Gov't | High Bay Lighting | Existing | building | 527 | 28% | 0.3 | 8 | \$1,034 | 13% | 0.2 |
| FE-Met Ed | Time Clock Control | Lighting w/ No Controls | Gov't | High Bay Lighting | New | building | 527 | 4.1% | 0.04 | 8 | \$1,034 | 0% | 0.0 |
| FE-Met Ed | Auto Off Time Switch | Lighting w/ No Controls | Gov't | Lin. Fluor. Lighting | Existing | building | 18,692 | 24% | 0.2 | 8 | \$1,034 | 13% | 1.6 |
| FE-Met Ed | Auto Off Time Switch | Lighting w/ No Controls | Gov't | Lin. Fluor. Lighting | New | building | 18,692 | 7.0% | 0.07 | 8 | \$1,034 | 0% | 0.5 |
| FE-Met Ed | Central Lighting Control System | Lighting w/ No Controls | Gov't | Lin. Fluor. Lighting | Existing | building | 18,692 | 38% | 0.4 | 8 | \$1,034 | 12% | 2.5 |
| FE-Met Ed | Central Lighting Control System | Lighting w/ No Controls | Gov't | Lin. Fluor. Lighting | New | building | 18,692 | 14% | 0.1 | 8 | \$1,034 | 12% | 0.9 |
| FE-Met Ed | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Gov't | Lin. Fluor. Lighting | New | building | 18,692 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.0 |
| FE-Met Ed | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Gov't | Lin. Fluor. Lighting | New | building | 18,692 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |
| FE-Met Ed | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Gov't | Lin. Fluor. Lighting | New | building | 18,692 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| FE-Met Ed | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Gov't | Lin. Fluor. Lighting | Early | Lamp | 229 | 38% | 0.01 | 9 | \$7.3 | 94% | 5.5 |
| FE-Met Ed | Indoor Daylight Sensors | Lighting w/ No Controls | Gov't | Lin. Fluor. Lighting | Existing | building | 18,692 | 28% | 0.3 | 8 | \$5,088 | 13% | 0.4 |
| FE-Met Ed | Indoor Daylight Sensors | Lighting w/ No Controls | Gov't | Lin. Fluor. Lighting | New | building | 18,692 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.1 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | Early | Lamp | 38 | 19% | 0.00 | 15 | \$35 | 94% | 0.2 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 40W T12 Lamp, Magnetic Ballast | Gov't | Lin. Fluor. Lighting | Early | Lamp | 83 | 63% | 0.01 | 15 | \$35 | 94% | 1.1 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | Early | Lamp | 46 | 34% | 0.00 | 15 | \$35 | 94% | 0.3 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | Early | Lamp | 45 | 32% | 0.00 | 15 | \$35 | 94% | 0.3 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | New | Lamp | 29 | 19% | 0.00 | 15 | \$28 | 94% | 0.1 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | New | Lamp | 34 | 32% | 0.00 | 15 | \$29 | 94% | 0.3 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | New | Lamp | 35 | 34% | 0.00 | 15 | \$22 | 94% | 0.4 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | New | Lamp | 34 | 32% | 0.00 | 15 | \$29 | 94% | 0.3 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | ROB | Lamp | 38 | 19% | 0.00 | 15 | \$28 | 94% | 0.2 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | ROB | Lamp | 45 | 32% | 0.00 | 15 | \$29 | 94% | 0.4 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | ROB | Lamp | 46 | 34% | 0.00 | 15 | \$22 | 94% | 0.5 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | ROB | Lamp | 45 | 32% | 0.00 | 15 | \$29 | 94% | 0.4 |
| FE-Met Ed | Occupancy Sensor | Lighting w/ No Controls | Gov't | Lin. Fluor. Lighting | Existing | building | 18,692 | 24% | 0.2 | 8 | \$1,558 | 12% | 1.0 |
| FE-Met Ed | Occupancy Sensor | Lighting w/ No Controls | Gov't | Lin. Fluor. Lighting | New | building | 18,692 | 7.0% | 0.07 | 8 | \$1,558 | 0% | 0.3 |
| FE-Met Ed | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Gov't | Lin. Fluor. Lighting | Existing | building | 18,692 | 28% | 0.3 | 8 | \$5,088 | 11% | 0.4 |
| FE-Met Ed | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Gov't | Lin. Fluor. Lighting | New | building | 18,692 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.1 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 40W T12 w/ Magnetic Ballast | Gov't | Lin. Fluor. Lighting | Early | Lamp | 229 | 54% | 0.02 | 9 | \$9.1 | 94% | 6.3 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | Early | Lamp | 147 | 28% | 0.01 | 9 | \$9.1 | 24% | 2.1 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | Early | Lamp | 142 | 26% | 0.01 | 9 | \$9.1 | 94% | 1.9 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | New | Lamp | 108 | 26% | 0.00 | 9 | \$2.5 | 94% | 5.1 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | New | Lamp | 108 | 26% | 0.00 | 9 | \$2.5 | 94% | 5.1 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | New | Lamp | 112 | 28% | 0.00 | 9 | \$2.5 | 24% | 5.8 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | New | Lamp | 108 | 26% | 0.00 | 9 | \$2.5 | 94% | 5.1 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | ROB | Lamp | 142 | 26% | 0.01 | 9 | \$2.5 | 94% | 6.7 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | ROB | Lamp | 142 | 26% | 0.01 | 9 | \$2.5 | 94% | 6.7 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | ROB | Lamp | 147 | 28% | 0.01 | 9 | \$2.5 | 24% | 7.6 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | ROB | Lamp | 142 | 26% | 0.01 | 9 | \$2.5 | 94% | 6.7 |
| FE-Met Ed | T8 Lamp (any length) Electronic Ballast | Standard T12 lamp (any length) | Gov't | Lin. Fluor. Lighting | Early | Lamp | 270 | 42% | 0.02 | 9 | \$14 | 94% | 3.8 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|--|---------|---------|---------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | Early | motor | 185,136 | 1.8% | 0.4 | 15 | \$4,430 | 70% | 0.5 |
| FE-Met Ed | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | New | motor | 182,762 | 0.6% | 0.1 | 15 | \$431 | 70% | 1.5 |
| FE-Met Ed | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | New | motor | 182,762 | 0.6% | 0.1 | 15 | \$431 | 70% | 1.6 |
| FE-Met Ed | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | New | motor | 182,762 | 0.6% | 0.1 | 15 | \$431 | 70% | 1.6 |
| FE-Met Ed | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | New | motor | 182,762 | 0.6% | 0.1 | 15 | \$431 | 70% | 1.6 |
| FE-Met Ed | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | ROB | motor | 182,762 | 0.6% | 0.1 | 15 | \$431 | 70% | 1.6 |
| FE-Met Ed | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | ROB | motor | 182,762 | 0.6% | 0.1 | 15 | \$431 | 70% | 1.6 |
| FE-Met Ed | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | ROB | motor | 182,762 | 0.6% | 0.1 | 15 | \$431 | 70% | 1.6 |
| FE-Met Ed | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | ROB | motor | 182,762 | 0.6% | 0.1 | 15 | \$431 | 70% | 1.6 |
| FE-Met Ed | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | ROB | motor | 182,762 | 0.6% | 0.1 | 15 | \$431 | 70% | 1.6 |
| FE-Met Ed | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | Early | motor | 24,433 | 2.9% | 0.09 | 15 | \$802 | 83% | 0.6 |
| FE-Met Ed | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | Early | motor | 24,433 | 2.9% | 0.09 | 15 | \$802 | 83% | 0.6 |
| FE-Met Ed | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | Early | motor | 24,433 | 3.0% | 0.09 | 15 | \$802 | 83% | 0.6 |
| FE-Met Ed | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | Early | motor | 24,433 | 3.0% | 0.1 | 15 | \$802 | 83% | 0.6 |
| FE-Met Ed | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | Early | motor | 24,433 | 3.0% | 0.09 | 15 | \$802 | 83% | 0.6 |
| FE-Met Ed | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | New | motor | 23,849 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.7 |
| FE-Met Ed | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | New | motor | 23,849 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.7 |
| FE-Met Ed | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | New | motor | 23,849 | 0.6% | 0.02 | 15 | \$123 | 83% | 0.7 |
| FE-Met Ed | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | New | motor | 23,849 | 0.6% | 0.02 | 15 | \$123 | 83% | 0.7 |
| FE-Met Ed | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | New | motor | 23,849 | 0.6% | 0.02 | 15 | \$123 | 83% | 0.7 |
| FE-Met Ed | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | ROB | motor | 23,849 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.7 |
| FE-Met Ed | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | ROB | motor | 23,849 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.7 |
| FE-Met Ed | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | ROB | motor | 23,849 | 0.6% | 0.02 | 15 | \$123 | 83% | 0.7 |
| FE-Met Ed | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | ROB | motor | 23,849 | 0.6% | 0.02 | 15 | \$123 | 83% | 0.7 |
| FE-Met Ed | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | ROB | motor | 23,849 | 0.6% | 0.02 | 15 | \$123 | 83% | 0.7 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | Early | motor | 230,351 | 1.4% | 0.4 | 15 | \$3,955 | 61% | 0.5 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | Early | motor | 230,351 | 1.4% | 0.4 | 15 | \$3,955 | 61% | 0.5 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | Early | motor | 230,351 | 1.4% | 0.4 | 15 | \$3,955 | 61% | 0.5 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | Early | motor | 230,351 | 1.4% | 0.4 | 15 | \$3,955 | 61% | 0.6 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | Early | motor | 230,351 | 1.4% | 0.4 | 15 | \$3,955 | 61% | 0.5 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | New | motor | 228,453 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.4 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | New | motor | 228,453 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.4 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | New | motor | 228,453 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.5 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | New | motor | 228,453 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.5 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | ROB | motor | 228,453 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.4 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | ROB | motor | 228,453 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.4 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | ROB | motor | 228,453 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.4 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | ROB | motor | 228,453 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.5 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | ROB | motor | 228,453 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.5 |
| FE-Met Ed | ASD HVAC Fan | Std. HVAC Fan | Gov't | Motors | New | measure | 18,873 | 9.1% | 0.2 | 15 | \$55,530 | 85% | 0.0 |
| FE-Met Ed | ASD HVAC Fan | Std. HVAC Fan | Gov't | Motors | ROB | measure | 18,873 | 9.1% | 0.2 | 15 | \$55,530 | 85% | 0.0 |
| FE-Met Ed | CO sensors for parking garage exhaust fans | No CO Sensors | Gov't | Motors | New | building | 3,169 | 28% | 0.3 | 8 | \$273 | 4% | 1.6 |
| FE-Met Ed | demand controlled ventilation | Absence of Demand Controlled Ventilation | Gov't | Motors | Early | measure | 18,873 | 5.9% | 0.1 | 10 | \$127,693 | 92% | 0.0 |
| FE-Met Ed | demand controlled ventilation | Office building thermostat | Gov't | Motors | New | measure | 18,873 | 5.9% | 0.1 | 10 | \$95,339 | 92% | 0.0 |
| FE-Met Ed | demand controlled ventilation | Office building thermostat | Gov't | Motors | ROB | measure | 18,873 | 5.9% | 0.1 | 10 | \$95,339 | 92% | 0.0 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Gov't | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 23.1 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Gov't | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 23.6 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Gov't | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 24.1 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Gov't | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 24.5 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Gov't | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 25.0 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Gov't | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 22.9 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Gov't | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 23.3 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Gov't | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 24.2 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Gov't | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 24.3 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Gov't | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 25.1 |
| FE-Met Ed | Energy Efficient Laboratory Fume Hood | Std. Fume Hood | Gov't | Motors | New | measure | 22,500 | 1.1% | 0.03 | 15 | \$111 | 17% | 1.4 |
| FE-Met Ed | Energy Efficient Laboratory Fume Hood | Std. Fume Hood | Gov't | Motors | ROB | measure | 22,500 | 1.1% | 0.03 | 15 | \$111 | 17% | 1.4 |
| FE-Met Ed | Escalator Motor Controller | Constant power control | Gov't | Motors | New | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 45% | 6.3 |
| FE-Met Ed | Escalator Motor Controller | Constant power control | Gov't | Motors | ROB | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 45% | 6.3 |
| FE-Met Ed | Fan Motor - correct sizing | Incorrect Fan Motor Sizing | Gov't | Motors | ROB | measure | 18,873 | 2.9% | 0.06 | 15 | \$36,818 | 92% | 0.0 |
| FE-Met Ed | Variable Speed Drive Control, 15HP | Existing Motors w/out VSD Drive | Gov't | Motors | Early | motor | 47,699 | 70% | 4.9 | 15 | \$731 | 86% | 32.0 |
| FE-Met Ed | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Gov't | Motors | New | motor | 46,673 | 72% | 4.9 | 15 | \$731 | 86% | 32.0 |
| FE-Met Ed | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Gov't | Motors | ROB | motor | 46,673 | 72% | 4.9 | 15 | \$731 | 86% | 32.0 |
| FE-Met Ed | Variable Speed Drive Control, 40HP | Existing Motors w/out VSD Drive | Gov't | Motors | Early | motor | 124,462 | 71% | 13.0 | 15 | \$4,666 | 86% | 13.2 |
| FE-Met Ed | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Gov't | Motors | New | motor | 123,007 | 72% | 12.9 | 15 | \$4,666 | 86% | 13.2 |
| FE-Met Ed | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Gov't | Motors | ROB | motor | 123,007 | 72% | 12.9 | 15 | \$4,666 | 86% | 13.2 |
| FE-Met Ed | Variable Speed Drive Control, 5HP | Existing Motors w/out VFD Drive | Gov't | Motors | Early | motor | 16,536 | 72% | 1.7 | 15 | \$2,243 | 86% | 3.7 |
| FE-Met Ed | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Gov't | Motors | New | motor | 16,166 | 72% | 1.7 | 15 | \$2,243 | 86% | 3.6 |
| FE-Met Ed | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Gov't | Motors | ROB | motor | 16,166 | 72% | 1.7 | 15 | \$2,243 | 86% | 3.6 |
| FE-Met Ed | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Gov't | Motors | Early | motor | 16,851 | 6.7% | 0.1 | 15 | \$268 | 13% | 2.8 |
| FE-Met Ed | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Gov't | Motors | New | motor | 16,851 | 6.7% | 0.1 | 15 | \$268 | 13% | 2.8 |
| FE-Met Ed | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Gov't | Motors | ROB | motor | 16,851 | 6.7% | 0.1 | 15 | \$268 | 13% | 2.8 |
| FE-Met Ed | VFD on Chilled Water Pump | Motor w/out VFD Drive | Gov't | Motors | Early | motor | 16,590 | 55% | 1.2 | 15 | \$2,903 | 86% | 2.1 |
| FE-Met Ed | VFD on Chilled Water Pump | Motor w/out VFD Drive | Gov't | Motors | New | motor | 16,280 | 55% | 1.2 | 15 | \$2,843 | 86% | 2.1 |
| FE-Met Ed | VFD on Chilled Water Pump | Motor w/out VFD Drive | Gov't | Motors | ROB | motor | 16,280 | 55% | 1.2 | 15 | \$2,843 | 86% | 2.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|--|---------|---------------------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | VFD on Condenser Water Pump | Motor w/out VFD Drive | Gov't | Motors | Early | motor | 18,641 | 32% | 0.8 | 15 | \$2,903 | 86% | 1.4 |
| FE-Met Ed | VFD on Condenser Water Pump | Motor w/out VFD Drive | Gov't | Motors | New | motor | 18,292 | 33% | 0.8 | 15 | \$2,843 | 86% | 1.4 |
| FE-Met Ed | VFD on Condenser Water Pump | Motor w/out VFD Drive | Gov't | Motors | ROB | motor | 18,292 | 33% | 0.8 | 15 | \$2,843 | 86% | 1.4 |
| FE-Met Ed | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Gov't | Motors | Early | motor | 27,718 | 56% | 2.0 | 15 | \$2,903 | 86% | 3.6 |
| FE-Met Ed | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Gov't | Motors | New | motor | 27,199 | 57% | 2.0 | 15 | \$2,843 | 86% | 3.6 |
| FE-Met Ed | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Gov't | Motors | ROB | motor | 27,199 | 57% | 2.0 | 15 | \$2,843 | 86% | 3.6 |
| FE-Met Ed | VFD on HVAC Fan | Motor w/out VFD | Gov't | Motors | Early | motor | 18,724 | 70% | 1.9 | 15 | \$2,903 | 86% | 3.2 |
| FE-Met Ed | VFD on HVAC Fan | Motor w/out VFD | Gov't | Motors | New | motor | 18,373 | 72% | 1.9 | 15 | \$2,843 | 86% | 3.2 |
| FE-Met Ed | VFD on HVAC Fan | Motor w/out VFD | Gov't | Motors | ROB | motor | 18,373 | 72% | 1.9 | 15 | \$2,843 | 86% | 3.2 |
| FE-Met Ed | Elevators | Std. Eff Elevator | Gov't | Other | ROB | measure | 89,016 | 1.5% | 0.05 | 15 | \$116 | 63% | 6.7 |
| FE-Met Ed | Variable Speed Drives on Process Equipment | Constant speed control | Gov't | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 11.3 |
| FE-Met Ed | Variable Speed Drives on Process Equipment | Constant speed control | Gov't | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 11.3 |
| FE-Met Ed | Auto Off Time Switch | Lighting w/ No Controls | Gov't | Other Int. Lighting | Existing | building | 2,117 | 24% | 0.2 | 8 | \$1,034 | 13% | 0.3 |
| FE-Met Ed | Auto Off Time Switch | Lighting w/ No Controls | Gov't | Other Int. Lighting | New | building | 2,117 | 7.0% | 0.07 | 8 | \$1,034 | 0% | 0.1 |
| FE-Met Ed | Central Lighting Control System | Lighting w/ No Controls | Gov't | Other Int. Lighting | Existing | building | 2,117 | 38% | 0.4 | 8 | \$1,034 | 13% | 0.5 |
| FE-Met Ed | Central Lighting Control System | Lighting w/ No Controls | Gov't | Other Int. Lighting | New | building | 2,117 | 14% | 0.1 | 8 | \$1,034 | 13% | 0.2 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 40W Incandescent Bulb | Gov't | Other Int. Lighting | Early | lamp | 87 | 87% | 0.01 | 15 | \$30 | 14% | 1.8 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Gov't | Other Int. Lighting | Early | lamp | 62 | 81% | 0.01 | 15 | \$30 | 11% | 1.2 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Gov't | Other Int. Lighting | New | lamp | 47 | 81% | 0.01 | 15 | \$21 | 14% | 1.3 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Gov't | Other Int. Lighting | New | lamp | 47 | 81% | 0.01 | 15 | \$23 | 14% | 1.2 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Gov't | Other Int. Lighting | New | lamp | 47 | 81% | 0.01 | 15 | \$22 | 11% | 1.3 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Gov't | Other Int. Lighting | ROB | lamp | 62 | 81% | 0.01 | 15 | \$21 | 14% | 1.7 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Gov't | Other Int. Lighting | ROB | lamp | 62 | 81% | 0.01 | 15 | \$23 | 14% | 1.6 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Gov't | Other Int. Lighting | ROB | lamp | 62 | 81% | 0.01 | 15 | \$22 | 11% | 1.7 |
| FE-Met Ed | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Gov't | Other Int. Lighting | Early | lamp | 87 | 75% | 0.01 | 7 | \$73 | 24% | 0.3 |
| FE-Met Ed | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Gov't | Other Int. Lighting | New | fixture | 95 | 65% | 0.01 | 13 | \$29 | 28% | 1.4 |
| FE-Met Ed | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Gov't | Other Int. Lighting | New | lamp | 47 | 65% | 0.01 | 7 | \$29 | 28% | 0.4 |
| FE-Met Ed | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Gov't | Other Int. Lighting | ROB | fixture | 125 | 65% | 0.01 | 13 | \$29 | 24% | 1.8 |
| FE-Met Ed | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Gov't | Other Int. Lighting | ROB | lamp | 62 | 65% | 0.01 | 7 | \$29 | 24% | 0.6 |
| FE-Met Ed | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Gov't | Other Int. Lighting | Early | lamp | 87 | 75% | 0.01 | 7 | \$3.2 | 24% | 8.0 |
| FE-Met Ed | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Gov't | Other Int. Lighting | New | lamp | 47 | 65% | 0.01 | 7 | \$1.8 | 24% | 6.8 |
| FE-Met Ed | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Gov't | Other Int. Lighting | ROB | lamp | 62 | 65% | 0.01 | 7 | \$1.8 | 24% | 8.9 |
| FE-Met Ed | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Gov't | Other Int. Lighting | ROB | lamp | 62 | 65% | 0.01 | 7 | \$1.8 | 24% | 8.9 |
| FE-Met Ed | Exit Sign Retrofit: CFL replacing Incandescent | One 23W Single Sided Incandescent Exit Sign | Gov't | Other Int. Lighting | Early | exit sign | 139 | 42% | 0.01 | 15 | \$48 | 22% | 0.8 |
| FE-Met Ed | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Gov't | Other Int. Lighting | New | building | 2,117 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.0 |
| FE-Met Ed | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Gov't | Other Int. Lighting | New | building | 2,117 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |
| FE-Met Ed | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Gov't | Other Int. Lighting | New | building | 2,117 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| FE-Met Ed | Indoor Daylight Sensors | Lighting w/ No Controls | Gov't | Other Int. Lighting | Existing | building | 2,117 | 28% | 0.3 | 8 | \$5,088 | 13% | 0.1 |
| FE-Met Ed | Indoor Daylight Sensors | Lighting w/ No Controls | Gov't | Other Int. Lighting | New | building | 2,117 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| FE-Met Ed | LED Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Gov't | Other Int. Lighting | Early | sign | 153 | 87% | 0.02 | 15 | \$48 | 16% | 1.9 |
| FE-Met Ed | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Gov't | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 2.1 |
| FE-Met Ed | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Gov't | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 2.1 |
| FE-Met Ed | LED Task Lighting/Screw-In | 1 15W CFL bulb | Gov't | Other Int. Lighting | Early | lamp | 22 | 33% | 0.00 | 15 | \$9.6 | 24% | 0.6 |
| FE-Met Ed | LED Task Lighting/Screw-In | 1 60W Incandescent Bulb | Gov't | Other Int. Lighting | Early | lamp | 89 | 83% | 0.01 | 15 | \$9.6 | 24% | 5.6 |
| FE-Met Ed | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Gov't | Other Int. Lighting | New | lamp | 49 | 77% | 0.01 | 15 | \$7.9 | 24% | 3.4 |
| FE-Met Ed | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Gov't | Other Int. Lighting | New | lamp | 49 | 77% | 0.01 | 15 | \$7.9 | 24% | 3.4 |
| FE-Met Ed | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Gov't | Other Int. Lighting | ROB | lamp | 64 | 77% | 0.01 | 15 | \$7.9 | 24% | 4.5 |
| FE-Met Ed | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Gov't | Other Int. Lighting | ROB | lamp | 64 | 77% | 0.01 | 15 | \$7.9 | 24% | 4.5 |
| FE-Met Ed | Occupancy Sensor | Lighting w/ No Controls | Gov't | Other Int. Lighting | Existing | building | 2,117 | 24% | 0.2 | 8 | \$1,558 | 11% | 0.2 |
| FE-Met Ed | Occupancy Sensor | Lighting w/ No Controls | Gov't | Other Int. Lighting | New | building | 2,117 | 7.0% | 0.07 | 8 | \$1,558 | 0% | 0.1 |
| FE-Met Ed | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Gov't | Other Int. Lighting | Existing | building | 2,117 | 28% | 0.3 | 8 | \$5,088 | 11% | 0.1 |
| FE-Met Ed | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Gov't | Other Int. Lighting | New | building | 2,117 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| FE-Met Ed | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Gov't | Other Int. Lighting | Early | exit sign | 139 | 100% | 0.02 | 15 | \$173 | 26% | 0.5 |
| FE-Met Ed | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Gov't | Other Int. Lighting | New | exit sign | 80 | 100% | 0.01 | 15 | \$148 | 31% | 0.4 |
| FE-Met Ed | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Gov't | Other Int. Lighting | ROB | exit sign | 80 | 100% | 0.01 | 15 | \$148 | 26% | 0.4 |
| FE-Met Ed | Time Clock Control | Lighting w/ No Controls | Gov't | Other Int. Lighting | Existing | building | 2,117 | 28% | 0.3 | 8 | \$1,034 | 13% | 0.4 |
| FE-Met Ed | Time Clock Control | Lighting w/ No Controls | Gov't | Other Int. Lighting | New | building | 2,117 | 4.1% | 0.04 | 8 | \$1,034 | 0% | 0.1 |
| FE-Met Ed | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Gov't | Plug Load | Existing | building | 1,347 | 46% | 0.5 | 5 | \$189 | 4% | 1.7 |
| FE-Met Ed | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Gov't | Plug Load | New | building | 1,347 | 46% | 0.5 | 5 | \$189 | 4% | 1.7 |
| FE-Met Ed | Data Center - Server/Storage Consolidation | No Consolidation | Gov't | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Met Ed | Data Center - Server/Storage Consolidation | No Consolidation | Gov't | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Met Ed | Data Center - Server/Storage Virtualization | No Virtualization | Gov't | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Met Ed | Data Center - Server/Storage Virtualization | No Virtualization | Gov't | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Met Ed | Energy Star - Scanners | Std Scanner | Gov't | Plug Load | New | measure | 68 | 3.8% | 0.04 | 4 | \$130 | 7% | 0.1 |
| FE-Met Ed | Energy Star - Scanners | Std Scanner | Gov't | Plug Load | ROB | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| FE-Met Ed | Energy Star Battery Charging System (for small cordless products) | Std. Battery Charging System | Gov't | Plug Load | ROB | measure | 593 | 2.3% | 0.5 | 5 | \$65 | 4% | 3.2 |
| FE-Met Ed | Energy Star Dishwasher | Existing Dishwasher units | Gov't | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,580 | 1% | 1.1 |
| FE-Met Ed | Energy Star Dishwasher | Standard Dishwasher unit | Gov't | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 1% | 3.5 |
| FE-Met Ed | Energy Star Dishwasher | Standard Dishwasher unit | Gov't | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 1% | 3.5 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|---|---------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Energy Star External Power Adapter | Std. Power Adapter | Gov't | Plug Load | New | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| FE-Met Ed | Energy Star External Power Adapter | Std. Power Adapter | Gov't | Plug Load | ROB | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| FE-Met Ed | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Gov't | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 17% | 0.2 |
| FE-Met Ed | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Gov't | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.1 |
| FE-Met Ed | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Gov't | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.1 |
| FE-Met Ed | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Gov't | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 9% | 0.8 |
| FE-Met Ed | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Gov't | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.7 |
| FE-Met Ed | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Gov't | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.7 |
| FE-Met Ed | ENERGY STAR® Copiers | 10% Less Efficient Copier | Gov't | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 18% | 0.0 |
| FE-Met Ed | ENERGY STAR® Copiers | One Conventional Copier | Gov't | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| FE-Met Ed | ENERGY STAR® Copiers | One Conventional Copier | Gov't | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| FE-Met Ed | ENERGY STAR® desktop | Standard computer | Gov't | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 69% | 0.1 |
| FE-Met Ed | ENERGY STAR® desktop | Standard computer | Gov't | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.4 |
| FE-Met Ed | ENERGY STAR® desktop | Standard computer | Gov't | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.4 |
| FE-Met Ed | ENERGY STAR® Fax | 10% Less Efficient Fax | Gov't | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 15% | 0.0 |
| FE-Met Ed | ENERGY STAR® Fax | One Conventional Fax | Gov't | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| FE-Met Ed | ENERGY STAR® Fax | One Conventional Fax | Gov't | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| FE-Met Ed | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Gov't | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 70% | 0.0 |
| FE-Met Ed | ENERGY STAR® Monitors | One Conventional Monitor | Gov't | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| FE-Met Ed | ENERGY STAR® Monitors | One Conventional Monitor | Gov't | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| FE-Met Ed | ENERGY STAR® Printers | 10% Less Efficient Printer | Gov't | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 44% | 0.0 |
| FE-Met Ed | ENERGY STAR® Printers | One Conventional Printer | Gov't | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.4 |
| FE-Met Ed | ENERGY STAR® Printers | One Conventional Printer | Gov't | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.4 |
| FE-Met Ed | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Gov't | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 43% | 0.1 |
| FE-Met Ed | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Gov't | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.8 |
| FE-Met Ed | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Gov't | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.8 |
| FE-Met Ed | ENERGY STAR® Televisions | 10% Less Efficient Television | Gov't | Plug Load | Early | Unit | 111 | 38% | 0.01 | 6 | \$672 | 40% | 0.0 |
| FE-Met Ed | ENERGY STAR® Televisions | One Conventional Television | Gov't | Plug Load | New | Unit | 101 | 32% | 0.01 | 6 | \$206 | 40% | 0.1 |
| FE-Met Ed | ENERGY STAR® Televisions | One Conventional Television | Gov't | Plug Load | ROB | Unit | 101 | 32% | 0.01 | 6 | \$206 | 40% | 0.1 |
| FE-Met Ed | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Gov't | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 24% | 0.3 |
| FE-Met Ed | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Gov't | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.7 |
| FE-Met Ed | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Gov't | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.7 |
| FE-Met Ed | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Gov't | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.3 |
| FE-Met Ed | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Gov't | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.3 |
| FE-Met Ed | Network PC Power Management | No PC Power Management | Gov't | Plug Load | Existing | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 16.4 |
| FE-Met Ed | Network PC Power Management | No PC Power Management | Gov't | Plug Load | New | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 16.4 |
| FE-Met Ed | Smart Strip Plug Outlets | Standard plug strip/outlet | Gov't | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.5 |
| FE-Met Ed | Smart Strip Plug Outlets | Standard plug strip/outlet | Gov't | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.5 |
| FE-Met Ed | Smart Strip Plug Outlets | Standard plug strip/outlet | Gov't | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Met Ed | Smart Strip Plug Outlets | Standard plug strip/outlet | Gov't | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Met Ed | Smart Strip Plug Outlets | Standard plug strip/outlet | Gov't | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Met Ed | Smart Strip Plug Outlets | Standard plug strip/outlet | Gov't | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Met Ed | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Gov't | Plug Load | Existing | building | 1,347 | 46% | 0.5 | 5 | \$180 | 3% | 1.8 |
| FE-Met Ed | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Gov't | Plug Load | New | building | 1,347 | 46% | 0.5 | 5 | \$180 | 3% | 1.8 |
| FE-Met Ed | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Gov't | Refrigeration | Existing | building | 707 | 1.1% | 0.01 | 12 | \$70 | 11% | 0.2 |
| FE-Met Ed | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Gov't | Refrigeration | New | building | 707 | 1.1% | 0.01 | 12 | \$70 | 11% | 0.2 |
| FE-Met Ed | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Gov't | Refrigeration | Existing | building | 707 | 7.0% | 0.07 | 12 | \$70 | 11% | 1.1 |
| FE-Met Ed | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Gov't | Refrigeration | New | building | 707 | 7.0% | 0.07 | 12 | \$70 | 11% | 1.1 |
| FE-Met Ed | Auto Closer on Refrigerator Door | Door w/out Autocloser | Gov't | Refrigeration | Existing | building | 3,636 | 27% | 0.3 | 8 | \$747 | 40% | 0.6 |
| FE-Met Ed | Auto Closer on Refrigerator Door | Door w/out Autocloser | Gov't | Refrigeration | Existing | building | 5,454 | 15% | 0.2 | 8 | \$763 | 40% | 0.5 |
| FE-Met Ed | Auto Closer on Refrigerator Door | Door w/out Autocloser | Gov't | Refrigeration | New | building | 3,636 | 27% | 0.3 | 8 | \$747 | 40% | 0.6 |
| FE-Met Ed | Auto Closer on Refrigerator Door | Door w/out Autocloser | Gov't | Refrigeration | New | building | 5,454 | 15% | 0.2 | 8 | \$763 | 40% | 0.5 |
| FE-Met Ed | Demand Hot Gas Defrost | Base Refrigeration System | Gov't | Refrigeration | Existing | measure | 707 | 3.0% | 0.03 | 10 | \$1,300 | 0% | 0.0 |
| FE-Met Ed | Demand Hot Gas Defrost | Base Refrigeration System | Gov't | Refrigeration | New | measure | 707 | 3.0% | 0.03 | 10 | \$1,300 | 0% | 0.0 |
| FE-Met Ed | Door Gasket- Freezer | Door w/out Gasket | Gov't | Refrigeration | Existing | building | 3,636 | 15% | 0.1 | 4 | \$77 | 29% | 1.8 |
| FE-Met Ed | Door Gasket- Freezer | Door w/out Gasket | Gov't | Refrigeration | New | building | 3,636 | 15% | 0.1 | 4 | \$77 | 29% | 1.8 |
| FE-Met Ed | Door Gasket- Refrigerator | Door w/out Gasket | Gov't | Refrigeration | Existing | building | 5,454 | 4.8% | 0.05 | 4 | \$105 | 45% | 0.6 |
| FE-Met Ed | Door Gasket- Refrigerator | Door w/out Gasket | Gov't | Refrigeration | New | building | 5,454 | 4.8% | 0.05 | 4 | \$105 | 45% | 0.6 |
| FE-Met Ed | eCube | Refrigeration unit w/out eCube | Gov't | Refrigeration | Existing | building | 5,454 | 15% | 0.2 | 15 | \$504 | 57% | 1.2 |
| FE-Met Ed | eCube | Refrigeration unit w/out eCube | Gov't | Refrigeration | New | building | 5,454 | 15% | 0.2 | 15 | \$504 | 57% | 1.2 |
| FE-Met Ed | Efficient compressor motor | Base Refrigeration System - Grocery | Gov't | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| FE-Met Ed | Efficient compressor motor | Base Refrigeration System - Grocery | Gov't | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| FE-Met Ed | Efficient compressor motor | Base Refrigeration System - Grocery | Gov't | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| FE-Met Ed | Efficient compressor motor | Base Refrigeration System - Grocery | Gov't | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| FE-Met Ed | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Gov't | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.6 |
| FE-Met Ed | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Gov't | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| FE-Met Ed | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Gov't | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|--|---------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Gov't | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.3 |
| FE-Met Ed | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Gov't | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.8 |
| FE-Met Ed | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Gov't | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.8 |
| FE-Met Ed | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Gov't | Refrigeration | Existing | building | 5,454 | 1.7% | 0.02 | 10 | \$369 | 77% | 0.1 |
| FE-Met Ed | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Gov't | Refrigeration | New | building | 5,454 | 1.7% | 0.02 | 10 | \$369 | 77% | 0.1 |
| FE-Met Ed | Floating head pressure controller | System w/out FHPC | Gov't | Refrigeration | Existing | building | 3,636 | 6.4% | 0.03 | 15 | \$8,682 | 41% | 0.0 |
| FE-Met Ed | Floating head pressure controller | System w/out FHPC | Gov't | Refrigeration | Existing | building | 707 | 13% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-Met Ed | Floating head pressure controller | System w/out FHPC | Gov't | Refrigeration | Existing | building | 5,454 | 1.5% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-Met Ed | Floating head pressure controller | System w/out FHPC | Gov't | Refrigeration | New | building | 3,636 | 6.4% | 0.03 | 15 | \$8,682 | 41% | 0.0 |
| FE-Met Ed | Floating head pressure controller | System w/out FHPC | Gov't | Refrigeration | New | building | 707 | 13% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-Met Ed | Floating head pressure controller | System w/out FHPC | Gov't | Refrigeration | New | building | 5,454 | 1.5% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-Met Ed | High Efficiency Commercial Freezer | Std. Commercial Freezer | Gov't | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 86% | 0.3 |
| FE-Met Ed | High Efficiency Commercial Freezer | Std. Commercial Freezer | Gov't | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 4.1 |
| FE-Met Ed | High Efficiency Commercial Freezer | Std. Commercial Freezer | Gov't | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 4.1 |
| FE-Met Ed | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Gov't | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 2% | 0.1 |
| FE-Met Ed | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Gov't | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.9 |
| FE-Met Ed | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Gov't | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.9 |
| FE-Met Ed | High Efficiency Ice Maker | Existing Standard Efficiency Ice Maker in Pennsylvania | Gov't | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 73% | 0.2 |
| FE-Met Ed | High Efficiency Ice Maker | Standard code minimum Ice Maker | Gov't | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| FE-Met Ed | High Efficiency Ice Maker | Standard code minimum Ice Maker | Gov't | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| FE-Met Ed | High Efficiency Ice Making Head | Standard Ice Making Head | Gov't | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 4.0 |
| FE-Met Ed | High Efficiency Ice Making Head | Standard Ice Making Head | Gov't | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 4.0 |
| FE-Met Ed | High R-Value Glass Doors | Base Refrigeration System - Grocery | Gov't | Refrigeration | Existing | building | 707 | 0.7% | 0.01 | 10 | \$15 | 0% | 0.5 |
| FE-Met Ed | High R-Value Glass Doors | Base Refrigeration System - Grocery | Gov't | Refrigeration | New | building | 707 | 0.7% | 0.01 | 10 | \$15 | 0% | 0.5 |
| FE-Met Ed | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Gov't | Refrigeration | Early | Fixture | 373 | 56% | 0.01 | 8 | \$448 | 47% | 0.2 |
| FE-Met Ed | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Gov't | Refrigeration | New | Fixture | 291 | 44% | 0.00 | 8 | \$139 | 47% | 0.3 |
| FE-Met Ed | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Gov't | Refrigeration | ROB | Fixture | 291 | 44% | 0.00 | 8 | \$139 | 47% | 0.3 |
| FE-Met Ed | No-heat glass doors | Standard low-temp reach-in | Gov't | Refrigeration | Existing | building | 707 | 20% | 0.2 | 10 | \$1,335 | 8% | 0.1 |
| FE-Met Ed | No-heat glass doors | Standard low-temp reach-in | Gov't | Refrigeration | New | building | 707 | 20% | 0.2 | 10 | \$1,335 | 8% | 0.1 |
| FE-Met Ed | Quick acting freezer doors | Std. Freezer Doors | Gov't | Refrigeration | Existing | building | 3,636 | 13% | 0.1 | 10 | \$808 | 56% | 0.3 |
| FE-Met Ed | Quick acting freezer doors | Std. Freezer Doors | Gov't | Refrigeration | New | building | 3,636 | 13% | 0.1 | 10 | \$808 | 56% | 0.3 |
| FE-Met Ed | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Gov't | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 30% | 0.4 |
| FE-Met Ed | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Gov't | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.6 |
| FE-Met Ed | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Gov't | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.6 |
| FE-Met Ed | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 30% | 1.7 |
| FE-Met Ed | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 3.0 |
| FE-Met Ed | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 3.0 |
| FE-Met Ed | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 30% | 1.7 |
| FE-Met Ed | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 4.0 |
| FE-Met Ed | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 4.0 |
| FE-Met Ed | Refrigeration Commissioning | Non-commissioned refrigeration system | Gov't | Refrigeration | Existing | building | 10,099 | 9.5% | 0.10 | 3 | \$3,613 | 85% | 0.0 |
| FE-Met Ed | Refrigeration Commissioning | Non-commissioned refrigeration system | Gov't | Refrigeration | New | building | 10,099 | 9.5% | 0.10 | 3 | \$3,613 | 85% | 0.0 |
| FE-Met Ed | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Gov't | Refrigeration | Existing | building | 3,636 | 35% | 0.3 | 4 | \$93 | 22% | 3.6 |
| FE-Met Ed | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Gov't | Refrigeration | Existing | building | 5,454 | 6.8% | 0.07 | 4 | \$128 | 22% | 0.7 |
| FE-Met Ed | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Gov't | Refrigeration | New | building | 3,636 | 35% | 0.3 | 4 | \$93 | 22% | 3.6 |
| FE-Met Ed | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Gov't | Refrigeration | New | building | 5,454 | 6.8% | 0.07 | 4 | \$128 | 22% | 0.7 |
| FE-Met Ed | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Gov't | Refrigeration | Existing | building | 3,636 | 5.9% | 0.06 | 11 | \$119 | 79% | 1.1 |
| FE-Met Ed | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Gov't | Refrigeration | New | building | 3,636 | 5.9% | 0.06 | 11 | \$119 | 79% | 1.1 |
| FE-Met Ed | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Gov't | Refrigeration | Existing | building | 5,454 | 4.5% | 0.05 | 11 | \$119 | 79% | 1.1 |
| FE-Met Ed | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Gov't | Refrigeration | New | building | 5,454 | 4.5% | 0.05 | 11 | \$119 | 79% | 1.1 |
| FE-Met Ed | Vertical Night Covers | Display cases w/out night covers-High Temperature | Gov't | Refrigeration | Existing | building | 707 | 0.6% | 0.01 | 5 | \$52 | 9% | 0.1 |
| FE-Met Ed | Vertical Night Covers | Display cases w/out night covers-High Temperature | Gov't | Refrigeration | New | building | 707 | 0.6% | 0.01 | 5 | \$52 | 9% | 0.1 |
| FE-Met Ed | VSD Controlled Compressor | Compressor w/out VSD | Gov't | Refrigeration | Early | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.2 |
| FE-Met Ed | VSD Controlled Compressor | Compressor w/out VSD | Gov't | Refrigeration | New | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.2 |
| FE-Met Ed | VSD Controlled Compressor | Compressor w/out VSD | Gov't | Refrigeration | ROB | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.2 |
| FE-Met Ed | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Gov't | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$269 | 35% | 0.9 |
| FE-Met Ed | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Gov't | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$269 | 35% | 0.9 |
| FE-Met Ed | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Gov't | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.2 |
| FE-Met Ed | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Gov't | Refrigeration | New | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 3.0 |
| FE-Met Ed | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Gov't | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.2 |
| FE-Met Ed | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Gov't | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 3.0 |
| FE-Met Ed | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 35% | 2.4 |
| FE-Met Ed | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 35% | 2.3 |
| FE-Met Ed | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 5.2 |
| FE-Met Ed | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.9 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|---|---------|-----------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 5.2 |
| FE-Met Ed | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.9 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Gov't | Space Heating | Existing | building | 9,841 | 7.1% | 0.07 | 6 | \$12,513 | 82% | 0.0 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Gov't | Space Heating | New | building | 9,841 | 7.1% | 0.07 | 6 | \$12,513 | 82% | 0.0 |
| FE-Met Ed | Adding window shade film | No shade film | Gov't | Space Heating | Existing | building | 9,841 | 1.3% | 0.4 | 10 | \$120 | 13% | 2.6 |
| FE-Met Ed | Adding window shade film | No shade film | Gov't | Space Heating | New | building | 9,841 | 1.3% | 0.4 | 10 | \$120 | 13% | 2.6 |
| FE-Met Ed | Adding window shade screen | No shade screen | Gov't | Space Heating | Existing | building | 9,841 | 1.1% | 0.01 | 10 | \$46 | 13% | 1.0 |
| FE-Met Ed | Adding window shade screen | No shade screen | Gov't | Space Heating | New | building | 9,841 | 1.1% | 0.01 | 10 | \$46 | 13% | 1.0 |
| FE-Met Ed | Automated control system | Manual Controls | Gov't | Space Heating | Existing | building | 9,841 | 17% | 0.2 | 15 | \$10,773 | 51% | 0.1 |
| FE-Met Ed | Automated control system | Manual Controls | Gov't | Space Heating | New | building | 9,841 | 17% | 0.2 | 15 | \$10,773 | 94% | 0.1 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Gov't | Space Heating | Existing | building | 9,841 | 3.4% | 0.03 | 15 | \$17,130 | 71% | 0.0 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Gov't | Space Heating | New | building | 9,841 | 1.1% | 0.01 | 15 | \$16,283 | 94% | 0.0 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Gov't | Space Heating | Existing | building | 9,841 | 1.4% | 0.04 | 15 | \$78 | 20% | 1.4 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Gov't | Space Heating | New | building | 9,841 | 1.4% | 0.04 | 15 | \$78 | 10% | 1.4 |
| FE-Met Ed | Efficient Unit Heating System | Existing Unit Heaters in PA | Gov't | Space Heating | Early | heater | 36,260 | 23% | 0.06 | 15 | \$3,289 | 83% | 1.3 |
| FE-Met Ed | Efficient Unit Heating System | Std. Unit Heater | Gov't | Space Heating | New | heater | 32,181 | 13% | 0.03 | 15 | \$1,991 | 83% | 1.1 |
| FE-Met Ed | Efficient Unit Heating System | Std. Unit Heater | Gov't | Space Heating | ROB | heater | 32,181 | 13% | 0.03 | 15 | \$1,991 | 83% | 1.1 |
| FE-Met Ed | Facility Commissioning | No Facility Commissioning | Gov't | Space Heating | New | building | 9,841 | 16% | 0.2 | 10 | \$140,548 | 89% | 0.0 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Gov't | Space Heating | Existing | building | 9,841 | 7.1% | 0.07 | 15 | \$43,652 | 25% | 0.0 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Gov't | Space Heating | New | building | 9,841 | 7.1% | 0.07 | 15 | \$43,652 | 35% | 0.0 |
| FE-Met Ed | Hi Eff HVAC System Design | No HVAC Design | Gov't | Space Heating | New | building | 9,841 | 7.4% | 0.07 | 10 | \$1,034,775 | 51% | 0.0 |
| FE-Met Ed | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Gov't | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 1.1 |
| FE-Met Ed | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Gov't | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 1.1 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Gov't | Space Heating | Existing | building | 9,841 | 1.1% | 0.01 | 10 | \$7,735 | 81% | 0.0 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Gov't | Space Heating | New | building | 9,841 | 1.1% | 0.01 | 10 | \$7,735 | 81% | 0.0 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Gov't | Space Heating | Existing | building | 9,841 | 3.6% | 0.04 | 11 | \$286 | 49% | 0.6 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Gov't | Space Heating | New | building | 9,841 | 3.1% | 0.03 | 11 | \$146 | 49% | 1.0 |
| FE-Met Ed | Re-Commissioning (Existing Construction) | No Re-Commissioning | Gov't | Space Heating | Existing | building | 9,841 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |
| FE-Met Ed | VFD on Cooling Tower Fan | Motor w/out VFD | Gov't | Space Heating | Early | motor | 18,724 | 70% | 0.10 | 15 | \$2,843 | 88% | 2.5 |
| FE-Met Ed | VFD on Cooling Tower Fan | Motor w/out VFD | Gov't | Space Heating | New | motor | 18,373 | 72% | 0.10 | 15 | \$2,843 | 88% | 2.5 |
| FE-Met Ed | VFD on Cooling Tower Fan | Motor w/out VFD | Gov't | Space Heating | ROB | motor | 18,373 | 72% | 0.10 | 15 | \$2,843 | 88% | 2.5 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Gov't | Space Heating | Existing | building | 9,841 | 6.0% | 0.06 | 15 | \$3,285 | 26% | 0.1 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Gov't | Space Heating | New | building | 9,841 | 0.2% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| FE-Met Ed | Green LED Traffic Light | Green Incandescent Traffic Light | Gov't | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 0% | 1.3 |
| FE-Met Ed | Green LED Traffic Light | Green Incandescent Traffic Light | Gov't | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.2 |
| FE-Met Ed | Green LED Traffic Light | Green Incandescent Traffic Light | Gov't | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.2 |
| FE-Met Ed | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Gov't | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 0% | 3.1 |
| FE-Met Ed | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Gov't | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-Met Ed | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Gov't | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-Met Ed | Induction Street Lighting | One 100W HPS Street Light Fixture | Gov't | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 0% | 0.3 |
| FE-Met Ed | Induction Street Lighting | One 100W HPS Street Light Fixture | Gov't | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.8 |
| FE-Met Ed | Induction Street Lighting | One 100W HPS Street Light Fixture | Gov't | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.8 |
| FE-Met Ed | LED Street Lighting | One 100W HPS Street Light | Gov't | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 0% | 0.2 |
| FE-Met Ed | LED Street Lighting | One 100W HPS Street Light | Gov't | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-Met Ed | LED Street Lighting | One 100W HPS Street Light | Gov't | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-Met Ed | Red LED Traffic Light | One Red Incandescent Traffic Light | Gov't | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 0% | 1.7 |
| FE-Met Ed | Red LED Traffic Light | One Red Incandescent Traffic Light | Gov't | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| FE-Met Ed | Red LED Traffic Light | One Red Incandescent Traffic Light | Gov't | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| FE-Met Ed | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Gov't | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 0% | 0.1 |
| FE-Met Ed | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Gov't | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-Met Ed | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Gov't | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-Met Ed | Demand controlled Circulating Systems | Constant circulation system | Gov't | Water Heating | Existing | building | 8,458 | 20% | 0.2 | 15 | \$1,535 | 59% | 0.7 |
| FE-Met Ed | Demand controlled Circulating Systems | Constant circulation system | Gov't | Water Heating | New | building | 8,458 | 20% | 0.2 | 15 | \$1,535 | 59% | 0.7 |
| FE-Met Ed | Drainwater Heat Recovery Water Heater | No heat recovery | Gov't | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 2.0 |
| FE-Met Ed | Drainwater Heat Recovery Water Heater | No heat recovery | Gov't | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 2.0 |
| FE-Met Ed | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Gov't | Water Heating | Existing | building | 8,458 | 5.9% | 0.06 | 12 | \$42 | 85% | 6.6 |
| FE-Met Ed | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Gov't | Water Heating | New | building | 8,458 | 5.9% | 0.06 | 12 | \$12 | 85% | 23.0 |
| FE-Met Ed | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Gov't | Water Heating | Early | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 3.1 |
| FE-Met Ed | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Gov't | Water Heating | Early | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 3.1 |
| FE-Met Ed | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Gov't | Water Heating | New | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 3.1 |
| FE-Met Ed | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Gov't | Water Heating | New | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 3.1 |
| FE-Met Ed | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Gov't | Water Heating | ROB | water heater | 10,350 | 65% | 1.2 | 10 | \$1,187 | 68% | 2.9 |
| FE-Met Ed | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Gov't | Water Heating | ROB | water heater | 10,350 | 65% | 1.2 | 10 | \$1,187 | 68% | 2.9 |
| FE-Met Ed | Heat Recovery Unit | Base Water Heating | Gov't | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.7 |
| FE-Met Ed | Heat Recovery Unit | Base Water Heating | Gov't | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.7 |
| FE-Met Ed | Heat Trap | No Heat Trap | Gov't | Water Heating | Existing | building | 8,458 | 22% | 0.2 | 11 | \$58 | 50% | 16.8 |
| FE-Met Ed | Heat Trap | No Heat Trap | Gov't | Water Heating | New | building | 8,458 | 22% | 0.2 | 11 | \$8.6 | 50% | 112.8 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|--|---|---------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Gov't | Water Heating | Early | water heater | 10,645 | 5.9% | 0.1 | 15 | \$307 | 79% | 1.5 |
| FE-Met Ed | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Gov't | Water Heating | Early | water heater | 10,645 | 5.9% | 0.1 | 15 | \$307 | 79% | 1.5 |
| FE-Met Ed | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Gov't | Water Heating | New | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.8 |
| FE-Met Ed | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Gov't | Water Heating | New | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.8 |
| FE-Met Ed | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Gov't | Water Heating | ROB | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.8 |
| FE-Met Ed | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Gov't | Water Heating | ROB | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.8 |
| FE-Met Ed | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Gov't | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$466 | 81% | 41.0 |
| FE-Met Ed | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Gov't | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 21.4 |
| FE-Met Ed | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Gov't | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 21.4 |
| FE-Met Ed | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Gov't | Water Heating | Existing | building | 8,458 | 0.4% | 0.00 | 13 | \$4.9 | 68% | 4.3 |
| FE-Met Ed | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Gov't | Water Heating | New | building | 8,458 | 0.4% | 0.00 | 13 | \$4.9 | 0% | 4.3 |
| FE-Met Ed | Hot Water Circulation Pump Time-Clock | Constant circulation system | Gov't | Water Heating | Existing | building | 8,458 | 5.3% | 0.05 | 10 | \$34 | 72% | 6.3 |
| FE-Met Ed | Hot Water Circulation Pump Time-Clock | Constant circulation system | Gov't | Water Heating | New | building | 8,458 | 5.3% | 0.05 | 10 | \$34 | 72% | 6.3 |
| FE-Met Ed | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Gov't | Water Heating | Existing | building | 8,458 | 0.9% | 0.01 | 7 | \$22 | 78% | 1.3 |
| FE-Met Ed | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Gov't | Water Heating | New | building | 8,458 | 0.8% | 0.01 | 7 | \$0.5 | 78% | 48.4 |
| FE-Met Ed | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Gov't | Water Heating | Existing | building | 8,458 | 2.3% | 0.02 | 5 | \$300 | 20% | 0.2 |
| FE-Met Ed | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Gov't | Water Heating | New | building | 8,458 | 1.5% | 0.02 | 5 | \$194 | 20% | 0.2 |
| FE-Met Ed | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Gov't | Water Heating | Existing | building | 8,458 | 6.5% | 0.07 | 9 | \$25 | 2% | 9.7 |
| FE-Met Ed | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Gov't | Water Heating | New | building | 8,458 | 6.5% | 0.07 | 9 | \$6.0 | 2% | 40.4 |
| FE-Met Ed | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Gov't | Water Heating | Early | water heater | 10,645 | 52% | 0.4 | 15 | \$6,222 | 32% | 0.6 |
| FE-Met Ed | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Gov't | Water Heating | New | water heater | 10,350 | 51% | 0.4 | 15 | \$6,222 | 32% | 0.5 |
| FE-Met Ed | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Gov't | Water Heating | ROB | water heater | 10,350 | 51% | 0.4 | 15 | \$6,222 | 32% | 0.5 |
| FE-Met Ed | Ultrasonic Faucet Control | Manual Faucet Control | Gov't | Water Heating | Existing | building | 8,458 | 3.0% | 0.03 | 10 | \$1,463 | 77% | 0.1 |
| FE-Met Ed | Ultrasonic Faucet Control | Manual Faucet Control | Gov't | Water Heating | New | building | 8,458 | 3.1% | 0.03 | 10 | \$1,463 | 77% | 0.1 |
| FE-Met Ed | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Gov't | Water Heating | Existing | building | 8,458 | 2.2% | 0.02 | 4 | \$28 | 83% | 1.5 |
| FE-Met Ed | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Gov't | Water Heating | New | building | 8,458 | 2.3% | 0.02 | 4 | \$28 | 83% | 1.6 |
| FE-Met Ed | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Grocery | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.2 |
| FE-Met Ed | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Grocery | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.2 |
| FE-Met Ed | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Grocery | Cooking | Early | steamer | 51 | 46% | 0.00 | 12 | \$5,053 | 81% | 0.0 |
| FE-Met Ed | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Grocery | Cooking | New | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-Met Ed | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Grocery | Cooking | ROB | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-Met Ed | Electric combination oven (Energy Star) | Standard Oven | Grocery | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 3.1 |
| FE-Met Ed | Electric combination oven (Energy Star) | Standard Oven | Grocery | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 3.1 |
| FE-Met Ed | Electric Convection Oven | Conventional convection oven w/ 65% efficiency | Grocery | Cooking | Early | oven | 8,641 | 37% | 0.6 | 12 | \$4,119 | 81% | 0.5 |
| FE-Met Ed | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Grocery | Cooking | New | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.8 |
| FE-Met Ed | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Grocery | Cooking | ROB | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.8 |
| FE-Met Ed | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Grocery | Cooking | Early | fryer | 6,105 | 23% | 0.3 | 12 | \$9,241 | 86% | 0.1 |
| FE-Met Ed | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Grocery | Cooking | New | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.4 |
| FE-Met Ed | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Grocery | Cooking | ROB | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.4 |
| FE-Met Ed | High Efficiency Griddle (ENERGY STAR) | Efficiency code minimum griddle (70% eff) | Grocery | Cooking | Early | griddle | 11,317 | 65% | 1.4 | 12 | \$4,977 | 86% | 0.9 |
| FE-Met Ed | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Grocery | Cooking | New | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.3 |
| FE-Met Ed | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Grocery | Cooking | ROB | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.3 |
| FE-Met Ed | High Efficiency Induction Cooking | Standard Cooking | Grocery | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-Met Ed | High Efficiency Induction Cooking | Standard Cooking | Grocery | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-Met Ed | Solid-state temperature controls | No Solid State Controls | Grocery | Cooking | Existing | building | 4,564 | 3.6% | 0.04 | 12 | \$20 | 34% | 5.0 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Grocery | Cooling Central | Existing | building | 3,201 | 7.0% | 0.07 | 6 | \$24,774 | 82% | 0.0 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Grocery | Cooling Central | New | building | 3,201 | 7.0% | 0.07 | 6 | \$24,774 | 82% | 0.0 |
| FE-Met Ed | Adding window shade film | No shade film | Grocery | Cooling Central | Existing | building | 3,201 | 1.3% | 0.4 | 10 | \$39 | 12% | 7.2 |
| FE-Met Ed | Adding window shade film | No shade film | Grocery | Cooling Central | New | building | 3,201 | 1.3% | 0.4 | 10 | \$39 | 13% | 7.2 |
| FE-Met Ed | Adding window shade screen | No shade screen | Grocery | Cooling Central | Existing | building | 3,201 | 1.1% | 0.01 | 10 | \$15 | 13% | 1.4 |
| FE-Met Ed | Adding window shade screen | No shade screen | Grocery | Cooling Central | New | building | 3,201 | 1.1% | 0.01 | 10 | \$15 | 13% | 1.4 |
| FE-Met Ed | Automated control system | Manual Controls | Grocery | Cooling Central | Existing | building | 3,201 | 17% | 0.2 | 15 | \$3,505 | 51% | 0.1 |
| FE-Met Ed | Automated control system | Manual Controls | Grocery | Cooling Central | New | building | 3,201 | 17% | 0.2 | 15 | \$3,505 | 94% | 0.1 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Grocery | Cooling Central | Existing | building | 3,201 | 9.8% | 0.10 | 15 | \$33,930 | 71% | 0.0 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Grocery | Cooling Central | New | building | 3,201 | 3.3% | 0.03 | 15 | \$32,251 | 94% | 0.0 |
| FE-Met Ed | Chiller Tuneup/Diagnostics | No tuneup | Grocery | Cooling Central | Existing | building | 3,201 | 8.0% | 0.08 | 10 | \$8,175 | 59% | 0.0 |
| FE-Met Ed | Chiller Tuneup/Diagnostics | No tuneup | Grocery | Cooling Central | New | building | 3,201 | 8.0% | 0.08 | 10 | \$8,175 | 59% | 0.0 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Grocery | Cooling Central | Existing | building | 3,201 | 1.4% | 0.04 | 15 | \$25 | 20% | 2.5 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Grocery | Cooling Central | New | building | 3,201 | 1.4% | 0.04 | 15 | \$25 | 10% | 2.5 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Grocery | Cooling Central | Existing | building | 3,201 | 7.0% | 0.07 | 15 | \$14,201 | 25% | 0.0 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Grocery | Cooling Central | New | building | 3,201 | 7.0% | 0.07 | 15 | \$14,201 | 35% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|--|--|---------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Hi Eff HVAC System Design | No HVAC Design | Grocery | Cooling Central | New | building | 3,201 | 9.3% | 0.09 | 10 | \$928,740 | 51% | 0.0 |
| FE-Met Ed | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Grocery | Cooling Central | Early | ton | 5,094 | 24% | 0.4 | 15 | \$108,550 | 88% | 0.0 |
| FE-Met Ed | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Grocery | Cooling Central | New | ton | 4,164 | 6.7% | 0.10 | 15 | \$12,927 | 88% | 0.0 |
| FE-Met Ed | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Grocery | Cooling Central | ROB | ton | 4,164 | 6.7% | 0.10 | 15 | \$12,927 | 88% | 0.0 |
| FE-Met Ed | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Grocery | Cooling Central | Early | ton | 7,611 | 23% | 0.6 | 15 | \$140,105 | 88% | 0.0 |
| FE-Met Ed | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Grocery | Cooling Central | New | ton | 6,124 | 4.9% | 0.1 | 15 | \$9,336 | 88% | 0.0 |
| FE-Met Ed | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Grocery | Cooling Central | ROB | ton | 6,124 | 4.9% | 0.1 | 15 | \$9,336 | 88% | 0.0 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Grocery | Cooling Central | Early | ton | 62,308 | 26% | 5.6 | 15 | \$105,354 | 88% | 0.1 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Grocery | Cooling Central | New | ton | 54,288 | 15% | 2.8 | 15 | \$30,530 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Grocery | Cooling Central | ROB | ton | 54,288 | 15% | 2.8 | 15 | \$30,530 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Grocery | Cooling Central | Early | ton | 93,320 | 23% | 7.4 | 15 | \$154,107 | 88% | 0.1 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Grocery | Cooling Central | New | ton | 85,726 | 16% | 4.8 | 15 | \$27,646 | 88% | 0.4 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Grocery | Cooling Central | ROB | ton | 93,320 | 23% | 7.4 | 15 | \$27,646 | 88% | 0.7 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Grocery | Cooling Central | Early | ton | 154,988 | 23% | 12.2 | 15 | \$302,924 | 88% | 0.1 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Grocery | Cooling Central | New | ton | 140,275 | 14% | 7.0 | 15 | \$115,432 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Grocery | Cooling Central | ROB | ton | 154,988 | 23% | 12.2 | 15 | \$115,432 | 88% | 0.3 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Grocery | Cooling Central | Early | ton | 185,985 | 23% | 14.6 | 15 | \$350,154 | 88% | 0.1 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Grocery | Cooling Central | New | ton | 168,330 | 14% | 8.5 | 15 | \$120,406 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Grocery | Cooling Central | ROB | ton | 185,985 | 23% | 14.6 | 15 | \$120,406 | 88% | 0.3 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Grocery | Cooling Central | Early | ton | 41,225 | 29% | 4.2 | 15 | \$83,632 | 88% | 0.1 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Grocery | Cooling Central | New | ton | 32,011 | 8.9% | 1.0 | 15 | \$40,211 | 88% | 0.1 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Grocery | Cooling Central | ROB | ton | 41,225 | 29% | 4.2 | 15 | \$40,211 | 88% | 0.3 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Grocery | Cooling Central | Early | ton | 70,835 | 35% | 8.6 | 15 | \$132,173 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Grocery | Cooling Central | New | ton | 52,831 | 13% | 2.3 | 15 | \$39,556 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Grocery | Cooling Central | ROB | ton | 52,831 | 13% | 2.3 | 15 | \$39,556 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Grocery | Cooling Central | Early | ton | 118,265 | 39% | 16.1 | 15 | \$187,029 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Grocery | Cooling Central | New | ton | 84,321 | 15% | 4.3 | 15 | \$33,554 | 88% | 0.3 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Grocery | Cooling Central | ROB | ton | 118,265 | 39% | 16.1 | 15 | \$33,554 | 88% | 1.2 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Grocery | Cooling Central | Early | ton | 20,695 | 30% | 2.1 | 15 | \$32,398 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Grocery | Cooling Central | New | ton | 16,396 | 11% | 0.6 | 15 | \$7,188 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Grocery | Cooling Central | ROB | ton | 20,695 | 30% | 2.1 | 15 | \$7,188 | 88% | 0.8 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Grocery | Cooling Central | Existing | building | 3,201 | 1.1% | 0.01 | 10 | \$94,032 | 81% | 0.0 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Grocery | Cooling Central | New | building | 3,201 | 1.1% | 0.01 | 10 | \$94,032 | 81% | 0.0 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Grocery | Cooling Central | Existing | building | 3,201 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.2 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Grocery | Cooling Central | New | building | 3,201 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.3 |
| FE-Met Ed | Re-Commissioning (Existing Construction) | No Re-Commissioning | Grocery | Cooling Central | Existing | building | 3,201 | 16% | 0.2 | 5 | \$19,254 | 86% | 0.0 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Grocery | Cooling Central | Existing | building | 3,201 | 19% | 0.2 | 15 | \$7,224 | 26% | 0.1 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Grocery | Cooling Central | New | building | 3,201 | 0.5% | 0.01 | 15 | \$5,541 | 94% | 0.0 |
| FE-Met Ed | <65k BTU/hr 14 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Grocery | Cooling Unitary | Early | ton | 1,385 | 16% | 0.1 | 15 | \$1,545 | 29% | 0.2 |
| FE-Met Ed | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Grocery | Cooling Unitary | New | ton | 1,254 | 7.1% | 0.05 | 15 | \$339 | 29% | 0.3 |
| FE-Met Ed | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Grocery | Cooling Unitary | ROB | ton | 1,254 | 7.1% | 0.05 | 15 | \$339 | 29% | 0.3 |
| FE-Met Ed | <65k BTU/hr 15 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Grocery | Cooling Unitary | Early | ton | 1,385 | 22% | 0.2 | 15 | \$1,821 | 30% | 0.2 |
| FE-Met Ed | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Grocery | Cooling Unitary | New | ton | 1,254 | 13% | 0.09 | 15 | \$714 | 30% | 0.3 |
| FE-Met Ed | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Grocery | Cooling Unitary | ROB | ton | 1,254 | 13% | 0.09 | 15 | \$714 | 30% | 0.3 |
| FE-Met Ed | <65k BTU/hr 16 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Grocery | Cooling Unitary | Early | ton | 1,385 | 26% | 0.2 | 15 | \$2,098 | 31% | 0.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|--|---------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Grocery | Cooling Unitary | New | ton | 1,254 | 19% | 0.1 | 15 | \$1,089 | 31% | 0.2 |
| FE-Met Ed | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Grocery | Cooling Unitary | ROB | ton | 1,254 | 19% | 0.1 | 15 | \$1,089 | 31% | 0.2 |
| FE-Met Ed | >760k min 10.2 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Grocery | Cooling Unitary | Early | ton | 35,043 | 3.7% | 0.7 | 15 | \$68,066 | 56% | 0.0 |
| FE-Met Ed | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Grocery | Cooling Unitary | New | ton | 35,493 | 4.9% | 0.9 | 15 | \$6,231 | 56% | 0.3 |
| FE-Met Ed | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Grocery | Cooling Unitary | ROB | ton | 35,493 | 4.9% | 0.9 | 15 | \$6,231 | 56% | 0.3 |
| FE-Met Ed | 135-240k min 12 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Grocery | Cooling Unitary | Early | ton | 8,623 | 18% | 0.8 | 15 | \$18,135 | 79% | 0.1 |
| FE-Met Ed | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Grocery | Cooling Unitary | New | ton | 7,844 | 10.0% | 0.4 | 15 | \$1,948 | 79% | 0.4 |
| FE-Met Ed | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Grocery | Cooling Unitary | ROB | ton | 7,844 | 10.0% | 0.4 | 15 | \$1,948 | 79% | 0.4 |
| FE-Met Ed | 240k-760k min 11 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Grocery | Cooling Unitary | Early | ton | 23,055 | 9.0% | 1.1 | 15 | \$44,809 | 66% | 0.0 |
| FE-Met Ed | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Grocery | Cooling Unitary | New | ton | 23,112 | 9.3% | 1.1 | 15 | \$4,796 | 66% | 0.5 |
| FE-Met Ed | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Grocery | Cooling Unitary | ROB | ton | 23,112 | 9.3% | 1.1 | 15 | \$4,796 | 66% | 0.5 |
| FE-Met Ed | 65k-135k BTU/hr 12 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Grocery | Cooling Unitary | Early | ton | 5,083 | 17% | 0.5 | 15 | \$10,946 | 86% | 0.1 |
| FE-Met Ed | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Grocery | Cooling Unitary | New | ton | 4,530 | 6.7% | 0.2 | 15 | \$1,392 | 86% | 0.2 |
| FE-Met Ed | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Grocery | Cooling Unitary | ROB | ton | 4,530 | 6.7% | 0.2 | 15 | \$1,392 | 86% | 0.2 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Grocery | Cooling Unitary | Existing | building | 29,702 | 7.0% | 0.07 | 6 | \$24,774 | 82% | 0.0 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Grocery | Cooling Unitary | New | building | 29,702 | 7.0% | 0.07 | 6 | \$24,774 | 82% | 0.0 |
| FE-Met Ed | Adding window shade film | No shade film | Grocery | Cooling Unitary | Existing | building | 29,702 | 1.3% | 0.4 | 10 | \$361 | 12% | 1.2 |
| FE-Met Ed | Adding window shade film | No shade film | Grocery | Cooling Unitary | New | building | 29,702 | 1.3% | 0.4 | 10 | \$361 | 13% | 1.2 |
| FE-Met Ed | Adding window shade screen | No shade screen | Grocery | Cooling Unitary | Existing | building | 29,702 | 1.1% | 0.01 | 10 | \$140 | 12% | 1.0 |
| FE-Met Ed | Adding window shade screen | No shade screen | Grocery | Cooling Unitary | New | building | 29,702 | 1.1% | 0.01 | 10 | \$140 | 13% | 1.0 |
| FE-Met Ed | Automated control system | Manual Controls | Grocery | Cooling Unitary | Existing | building | 29,702 | 17% | 0.2 | 15 | \$32,517 | 51% | 0.1 |
| FE-Met Ed | Automated control system | Manual Controls | Grocery | Cooling Unitary | New | building | 29,702 | 17% | 0.2 | 15 | \$32,517 | 94% | 0.1 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Grocery | Cooling Unitary | Existing | building | 29,702 | 9.8% | 0.10 | 15 | \$33,930 | 71% | 0.1 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Grocery | Cooling Unitary | New | building | 29,702 | 3.3% | 0.03 | 15 | \$32,251 | 94% | 0.0 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Grocery | Cooling Unitary | Existing | building | 29,702 | 1.4% | 0.04 | 15 | \$236 | 20% | 1.1 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Grocery | Cooling Unitary | New | building | 29,702 | 1.4% | 0.04 | 15 | \$236 | 10% | 1.1 |
| FE-Met Ed | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Grocery | Cooling Unitary | Existing | building | 16,336 | 13% | 0.1 | 1 | \$157 | 73% | 0.8 |
| FE-Met Ed | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Grocery | Cooling Unitary | New | building | 16,336 | 13% | 0.1 | 1 | \$157 | 73% | 0.8 |
| FE-Met Ed | ECM Motors for split systems | Std Shaded Pole Motor | Grocery | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 3.0 |
| FE-Met Ed | ECM Motors for split systems | Std Shaded Pole Motor | Grocery | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 3.0 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Grocery | Cooling Unitary | Existing | building | 29,702 | 7.1% | 0.07 | 15 | \$131,753 | 25% | 0.0 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Grocery | Cooling Unitary | New | building | 29,702 | 7.1% | 0.07 | 15 | \$131,753 | 35% | 0.0 |
| FE-Met Ed | Hi Eff HVAC System Design | No HVAC Design | Grocery | Cooling Unitary | New | building | 29,702 | 9.3% | 0.09 | 10 | \$11,226 | 51% | 0.1 |
| FE-Met Ed | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Grocery | Cooling Unitary | Existing | building | 29,702 | 5.0% | 0.05 | 5 | \$225 | 59% | 1.6 |
| FE-Met Ed | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Grocery | Cooling Unitary | Existing | building | 29,702 | 0.5% | 0.05 | 5 | \$225 | 51% | 0.2 |
| FE-Met Ed | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Grocery | Cooling Unitary | New | building | 29,702 | 0.5% | 0.05 | 5 | \$135 | 51% | 0.4 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Grocery | Cooling Unitary | Existing | building | 29,702 | 1.1% | 0.01 | 10 | \$101,057 | 86% | 0.0 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Grocery | Cooling Unitary | New | building | 29,702 | 1.1% | 0.01 | 10 | \$101,057 | 86% | 0.0 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) | Grocery | Cooling Unitary | Existing | building | 29,702 | 2.0% | 0.02 | 11 | \$286 | 49% | 1.0 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Grocery | Cooling Unitary | New | building | 29,702 | 1.7% | 0.02 | 11 | \$146 | 49% | 1.6 |
| FE-Met Ed | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Grocery | Cooling Unitary | Early | unit | 180 | 19% | 0.05 | 15 | \$849 | 85% | 0.1 |
| FE-Met Ed | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Grocery | Cooling Unitary | New | unit | 182 | 20% | 0.05 | 15 | \$356 | 85% | 0.2 |
| FE-Met Ed | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Grocery | Cooling Unitary | ROB | unit | 182 | 20% | 0.05 | 15 | \$356 | 85% | 0.2 |
| FE-Met Ed | Re-Commissioning (Existing Construction) | No Re-Commissioning | Grocery | Cooling Unitary | Existing | building | 29,702 | 16% | 0.2 | 5 | \$19,254 | 86% | 0.1 |
| FE-Met Ed | Room AC (w/ louvered sides) | Existing efficiency Room AC in Pennsylvania (2000 Federal Standards) | Grocery | Cooling Unitary | Early | ton | 944 | 13% | 0.04 | 9 | \$348 | 82% | 0.2 |
| FE-Met Ed | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Grocery | Cooling Unitary | New | ton | 856 | 4.5% | 0.01 | 9 | \$17 | 82% | 1.3 |
| FE-Met Ed | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Grocery | Cooling Unitary | ROB | ton | 856 | 4.5% | 0.01 | 9 | \$17 | 82% | 1.3 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Grocery | Cooling Unitary | Existing | building | 29,702 | 19% | 0.2 | 15 | \$7,224 | 26% | 0.5 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Grocery | Cooling Unitary | New | building | 29,702 | 0.5% | 0.01 | 15 | \$5,541 | 94% | 0.0 |
| FE-Met Ed | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Grocery | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 1.2 |
| FE-Met Ed | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Grocery | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.6 |
| FE-Met Ed | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Grocery | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.6 |
| FE-Met Ed | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Grocery | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 0% | 0.2 |
| FE-Met Ed | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Grocery | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-Met Ed | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Grocery | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-Met Ed | LED exterior lighting | 250 Watt Incandescent | Grocery | Ext. Lighting | ROB | measure | 1,456 | 83% | 0.2 | 15 | \$104 | 89% | 8.2 |
| FE-Met Ed | LED exterior lighting | 250 Watt Incandescent | Grocery | Ext. Lighting | ROB | measure | 1,456 | 83% | 0.2 | 15 | \$104 | 89% | 8.2 |
| FE-Met Ed | LED exterior lighting | 250 Watt Incandescent | Grocery | Ext. Lighting | ROB | measure | 1,456 | 83% | 0.2 | 15 | \$104 | 89% | 8.2 |
| FE-Met Ed | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Grocery | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 75% | 0.3 |
| FE-Met Ed | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Grocery | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 75% | 0.2 |
| FE-Met Ed | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Grocery | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.9 |
| FE-Met Ed | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Grocery | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.2 |
| FE-Met Ed | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Grocery | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.9 |
| FE-Met Ed | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Grocery | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|--|---|---------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Photocell Controls (Outdoor) | Lighting w/ No Controls | Grocery | Ext. Lighting | Existing | building | 371 | 28% | 0.3 | 8 | \$1,459 | 88% | 0.1 |
| FE-Met Ed | Photocell Controls (Outdoor) | Lighting w/ No Controls | Grocery | Ext. Lighting | New | building | 371 | 28% | 0.3 | 8 | \$1,459 | 0% | 0.1 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Grocery | Heat Pump | Existing | building | 3,055 | 6.9% | 0.07 | 6 | \$24,774 | 82% | 0.0 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Grocery | Heat Pump | New | building | 3,055 | 6.9% | 0.07 | 6 | \$24,774 | 82% | 0.0 |
| FE-Met Ed | Adding window shade film | No shade film | Grocery | Heat Pump | Existing | building | 3,055 | 3.9% | 0.4 | 10 | \$37 | 12% | 8.3 |
| FE-Met Ed | Adding window shade film | No shade film | Grocery | Heat Pump | New | building | 3,055 | 3.9% | 0.4 | 10 | \$37 | 12% | 8.3 |
| FE-Met Ed | Adding window shade screen | No shade screen | Grocery | Heat Pump | Existing | building | 3,055 | 0.3% | 0.01 | 10 | \$4.8 | 12% | 2.3 |
| FE-Met Ed | Adding window shade screen | No shade screen | Grocery | Heat Pump | New | building | 3,055 | 0.3% | 0.01 | 10 | \$4.8 | 12% | 2.3 |
| FE-Met Ed | Automated control system | Manual Controls | Grocery | Heat Pump | Existing | building | 3,055 | 17% | 0.2 | 15 | \$3,344 | 51% | 0.1 |
| FE-Met Ed | Automated control system | Manual Controls | Grocery | Heat Pump | New | building | 3,055 | 17% | 0.2 | 15 | \$3,344 | 94% | 0.1 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Grocery | Heat Pump | Existing | building | 3,055 | 9.8% | 0.10 | 15 | \$33,930 | 71% | 0.0 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Grocery | Heat Pump | New | building | 3,055 | 3.3% | 0.03 | 15 | \$32,251 | 94% | 0.0 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Grocery | Heat Pump | Existing | building | 3,055 | 4.0% | 0.04 | 15 | \$24 | 12% | 4.3 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Grocery | Heat Pump | New | building | 3,055 | 4.0% | 0.04 | 15 | \$24 | 6% | 4.3 |
| FE-Met Ed | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Grocery | Heat Pump | Early | heat pump | 2,534 | 11% | 0.02 | 15 | \$4,070 | 83% | 0.0 |
| FE-Met Ed | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Grocery | Heat Pump | New | heat pump | 2,445 | 8.0% | 0.02 | 15 | \$1,097 | 83% | 0.1 |
| FE-Met Ed | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Grocery | Heat Pump | ROB | heat pump | 2,445 | 8.0% | 0.02 | 15 | \$1,097 | 83% | 0.1 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Grocery | Heat Pump | Existing | building | 3,055 | 7.0% | 0.07 | 15 | \$13,551 | 25% | 0.0 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Grocery | Heat Pump | New | building | 3,055 | 7.0% | 0.07 | 15 | \$13,551 | 35% | 0.0 |
| FE-Met Ed | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Grocery | Heat Pump | Early | heat pump | 25,591 | 13% | 0.3 | 15 | \$91,117 | 19% | 0.0 |
| FE-Met Ed | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Grocery | Heat Pump | New | heat pump | 24,909 | 11% | 0.2 | 15 | \$33,927 | 19% | 0.1 |
| FE-Met Ed | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Grocery | Heat Pump | ROB | heat pump | 24,909 | 11% | 0.2 | 15 | \$33,927 | 19% | 0.1 |
| FE-Met Ed | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Grocery | Heat Pump | Early | heat pump | 25,591 | 13% | 0.3 | 15 | \$58,356 | 19% | 0.0 |
| FE-Met Ed | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Grocery | Heat Pump | New | heat pump | 24,909 | 11% | 0.2 | 15 | \$1,167 | 19% | 1.5 |
| FE-Met Ed | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Grocery | Heat Pump | ROB | heat pump | 24,909 | 11% | 0.2 | 15 | \$1,167 | 19% | 1.5 |
| FE-Met Ed | Hi Eff HVAC System Design | No HVAC Design | Grocery | Heat Pump | New | building | 3,055 | 9.3% | 0.09 | 10 | \$928,740 | 51% | 0.0 |
| FE-Met Ed | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Grocery | Heat Pump | Early | heat pump | 6,758 | 15% | 0.09 | 12 | \$4,298 | 81% | 0.1 |
| FE-Met Ed | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Grocery | Heat Pump | New | heat pump | 6,520 | 12% | 0.07 | 12 | \$852 | 81% | 0.5 |
| FE-Met Ed | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Grocery | Heat Pump | ROB | heat pump | 6,520 | 12% | 0.07 | 12 | \$852 | 81% | 0.5 |
| FE-Met Ed | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Grocery | Heat Pump | Existing | building | 3,055 | 5.0% | 0.01 | 5 | \$90 | 51% | 0.4 |
| FE-Met Ed | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Grocery | Heat Pump | New | building | 3,055 | 5.0% | 0.01 | 5 | \$90 | 51% | 0.4 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Grocery | Heat Pump | Existing | building | 3,055 | 1.1% | 0.01 | 10 | \$89,973 | 81% | 0.0 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Grocery | Heat Pump | New | building | 3,055 | 1.1% | 0.01 | 10 | \$89,973 | 81% | 0.0 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Grocery | Heat Pump | Existing | building | 3,055 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.2 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Grocery | Heat Pump | New | building | 3,055 | 2.1% | 0.02 | 11 | \$146 | 49% | 0.3 |
| FE-Met Ed | Re-Commissioning (Existing Construction) | No Re-Commissioning | Grocery | Heat Pump | Existing | building | 3,055 | 16% | 0.2 | 5 | \$19,254 | 86% | 0.0 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Grocery | Heat Pump | Existing | building | 3,055 | 19% | 0.2 | 15 | \$7,224 | 26% | 0.1 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Grocery | Heat Pump | New | building | 3,055 | 0.5% | 0.01 | 15 | \$5,541 | 94% | 0.0 |
| FE-Met Ed | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Grocery | Heat Pump | Early | heat pump | 11,106 | 38% | 0.4 | 15 | \$35,347 | 28% | 0.1 |
| FE-Met Ed | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Grocery | Heat Pump | New | heat pump | 10,719 | 36% | 0.3 | 15 | \$15,739 | 28% | 0.2 |
| FE-Met Ed | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Grocery | Heat Pump | ROB | heat pump | 10,719 | 36% | 0.3 | 15 | \$15,739 | 28% | 0.2 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Grocery | High Bay Lighting | Early | Fixture | 1,363 | 9.6% | 0.02 | 13 | \$850 | 39% | 0.1 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Grocery | High Bay Lighting | Early | Fixture | 1,362 | 9.5% | 0.02 | 13 | \$850 | 28% | 0.1 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Grocery | High Bay Lighting | Early | Fixture | 2,102 | 41% | 0.1 | 13 | \$850 | 36% | 0.7 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Grocery | High Bay Lighting | New | Fixture | 1,036 | 9.6% | 0.02 | 13 | \$372 | 39% | 0.2 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Grocery | High Bay Lighting | New | Fixture | 964 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.1 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Grocery | High Bay Lighting | New | Fixture | 1,597 | 41% | 0.1 | 13 | \$397 | 36% | 1.1 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Grocery | High Bay Lighting | ROB | Fixture | 1,363 | 9.6% | 0.02 | 13 | \$372 | 39% | 0.2 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Grocery | High Bay Lighting | ROB | Fixture | 1,268 | 2.9% | 0.01 | 13 | \$338 | 28% | 0.1 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Grocery | High Bay Lighting | ROB | Fixture | 2,102 | 41% | 0.1 | 13 | \$397 | 36% | 1.4 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Grocery | High Bay Lighting | Early | Fixture | 2,645 | 19% | 0.09 | 13 | \$851 | 38% | 0.4 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Grocery | High Bay Lighting | Early | Fixture | 2,678 | 20% | 0.09 | 13 | \$851 | 38% | 0.4 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | Early | Fixture | 7,791 | 73% | 1.0 | 13 | \$851 | 38% | 4.2 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Grocery | High Bay Lighting | New | Fixture | 2,010 | 19% | 0.07 | 13 | \$372 | 38% | 0.7 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | New | Fixture | 5,921 | 73% | 0.7 | 13 | \$383 | 38% | 7.2 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Grocery | High Bay Lighting | ROB | Fixture | 2,645 | 19% | 0.09 | 13 | \$372 | 38% | 0.9 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | ROB | Fixture | 7,791 | 73% | 1.0 | 13 | \$383 | 38% | 9.4 |
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Grocery | High Bay Lighting | Early | Fixture | 2,645 | 25% | 0.1 | 13 | \$554 | 29% | 0.8 |
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Grocery | High Bay Lighting | Early | Fixture | 2,597 | 23% | 0.1 | 13 | \$554 | 28% | 0.7 |
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | Early | Fixture | 7,791 | 74% | 1.0 | 13 | \$554 | 36% | 6.7 |
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Grocery | High Bay Lighting | New | Fixture | 2,010 | 25% | 0.09 | 13 | \$75 | 29% | 4.2 |
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | New | Fixture | 5,921 | 74% | 0.8 | 13 | \$86 | 36% | 32.8 |
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Grocery | High Bay Lighting | ROB | Fixture | 2,645 | 25% | 0.1 | 13 | \$75 | 29% | 5.6 |
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | ROB | Fixture | 7,791 | 74% | 1.0 | 13 | \$86 | 36% | 43.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|---|---------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Grocery | High Bay Lighting | Early | Fixture | 690 | 0.2% | 0.00 | 13 | \$835 | 38% | 0.0 |
| FE-Met Ed | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Grocery | High Bay Lighting | Early | Fixture | 1,486 | 54% | 0.1 | 13 | \$835 | 38% | 0.6 |
| FE-Met Ed | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Grocery | High Bay Lighting | New | Fixture | 1,129 | 54% | 0.1 | 13 | \$382 | 38% | 1.0 |
| FE-Met Ed | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Grocery | High Bay Lighting | ROB | Fixture | 1,486 | 54% | 0.1 | 13 | \$382 | 38% | 1.3 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Grocery | High Bay Lighting | Early | Fixture | 3,370 | 18% | 0.1 | 13 | \$487 | 25% | 0.8 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Grocery | High Bay Lighting | Early | Fixture | 3,524 | 22% | 0.1 | 13 | \$487 | 28% | 1.0 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | Early | Fixture | 7,791 | 65% | 0.9 | 13 | \$487 | 36% | 6.6 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Grocery | High Bay Lighting | New | Fixture | 2,561 | 18% | 0.08 | 13 | \$16 | 25% | 18.4 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | New | Fixture | 5,921 | 65% | 0.7 | 13 | \$18 | 36% | 133.0 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Grocery | High Bay Lighting | ROB | Fixture | 3,370 | 18% | 0.1 | 13 | \$16 | 25% | 24.2 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | ROB | Fixture | 7,791 | 65% | 0.9 | 13 | \$18 | 36% | 174.9 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Grocery | High Bay Lighting | Early | Fixture | 3,370 | 1.5% | 0.01 | 13 | \$557 | 19% | 0.1 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Grocery | High Bay Lighting | Early | Fixture | 3,469 | 4.3% | 0.03 | 13 | \$557 | 19% | 0.2 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | Early | Fixture | 7,791 | 57% | 0.8 | 13 | \$557 | 19% | 5.1 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Grocery | High Bay Lighting | New | Fixture | 2,561 | 1.5% | 0.01 | 13 | \$86 | 19% | 0.3 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | New | Fixture | 5,921 | 57% | 0.6 | 13 | \$88 | 19% | 24.6 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Grocery | High Bay Lighting | ROB | Fixture | 3,370 | 1.5% | 0.01 | 13 | \$86 | 19% | 0.4 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | ROB | Fixture | 7,791 | 57% | 0.8 | 13 | \$88 | 19% | 32.4 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Grocery | High Bay Lighting | Early | Fixture | 1,431 | 29% | 0.05 | 13 | \$492 | 71% | 0.5 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Grocery | High Bay Lighting | Early | Fixture | 1,197 | 15% | 0.02 | 13 | \$492 | 95% | 0.2 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Grocery | High Bay Lighting | Early | Fixture | 1,778 | 43% | 0.09 | 13 | \$492 | 95% | 0.9 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Grocery | High Bay Lighting | Early | Fixture | 1,648 | 38% | 0.08 | 13 | \$492 | 95% | 0.8 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Grocery | High Bay Lighting | New | Fixture | 909 | 15% | 0.02 | 13 | \$25 | 95% | 3.3 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Grocery | High Bay Lighting | New | Fixture | 1,351 | 43% | 0.07 | 13 | \$51 | 95% | 6.7 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Grocery | High Bay Lighting | ROB | Fixture | 1,197 | 15% | 0.02 | 13 | \$25 | 95% | 4.3 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Grocery | High Bay Lighting | ROB | Fixture | 1,778 | 43% | 0.09 | 13 | \$51 | 95% | 8.8 |
| FE-Met Ed | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Grocery | High Bay Lighting | Early | lamp | 155 | 16% | 0.00 | 7 | \$7.7 | 99% | 1.3 |
| FE-Met Ed | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Grocery | High Bay Lighting | New | lamp | 92 | 13% | 0.00 | 7 | \$1.6 | 91% | 2.8 |
| FE-Met Ed | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Grocery | High Bay Lighting | ROB | lamp | 149 | 13% | 0.00 | 7 | \$1.6 | 91% | 4.5 |
| FE-Met Ed | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Grocery | High Bay Lighting | Early | Fixture | 7,972 | 23% | 0.3 | 13 | \$613 | 5% | 1.9 |
| FE-Met Ed | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Grocery | High Bay Lighting | Early | Fixture | 6,263 | 1.6% | 0.02 | 13 | \$613 | 28% | 0.1 |
| FE-Met Ed | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | Early | Fixture | 15,582 | 60% | 1.6 | 13 | \$613 | 18% | 9.8 |
| FE-Met Ed | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Grocery | High Bay Lighting | New | Fixture | 6,059 | 23% | 0.2 | 13 | \$96 | 5% | 9.1 |
| FE-Met Ed | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Grocery | High Bay Lighting | ROB | Fixture | 7,972 | 23% | 0.3 | 13 | \$96 | 5% | 12.0 |
| FE-Met Ed | Auto Off Time Switch | Lighting w/ No Controls | Grocery | High Bay Lighting | Existing | building | 5,210 | 24% | 0.2 | 8 | \$296 | 13% | 1.9 |
| FE-Met Ed | Auto Off Time Switch | Lighting w/ No Controls | Grocery | High Bay Lighting | New | building | 5,210 | 6.9% | 0.07 | 8 | \$296 | 0% | 0.5 |
| FE-Met Ed | Central Lighting Control System | Lighting w/ No Controls | Grocery | High Bay Lighting | Existing | building | 5,210 | 38% | 0.4 | 8 | \$296 | 13% | 3.0 |
| FE-Met Ed | Central Lighting Control System | Lighting w/ No Controls | Grocery | High Bay Lighting | New | building | 5,210 | 14% | 0.1 | 8 | \$296 | 13% | 1.1 |
| FE-Met Ed | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Grocery | High Bay Lighting | New | building | 5,210 | 10.0% | 0.1 | 15 | \$69,961 | 32% | 0.0 |
| FE-Met Ed | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Grocery | High Bay Lighting | New | building | 5,210 | 15% | 0.2 | 15 | \$174,902 | 32% | 0.0 |
| FE-Met Ed | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Grocery | High Bay Lighting | New | building | 5,210 | 30% | 0.3 | 15 | \$250,693 | 32% | 0.0 |
| FE-Met Ed | Indoor Daylight Sensors | Lighting w/ No Controls | Grocery | High Bay Lighting | Existing | building | 5,210 | 28% | 0.3 | 8 | \$1,459 | 13% | 0.4 |
| FE-Met Ed | Indoor Daylight Sensors | Lighting w/ No Controls | Grocery | High Bay Lighting | New | building | 5,210 | 4.0% | 0.04 | 8 | \$1,459 | 0% | 0.1 |
| FE-Met Ed | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Grocery | High Bay Lighting | Early | Fixture | 7,972 | 92% | 1.3 | 13 | \$1,916 | 95% | 2.5 |
| FE-Met Ed | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | Early | Fixture | 15,582 | 96% | 2.6 | 13 | \$1,916 | 95% | 5.0 |
| FE-Met Ed | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Grocery | High Bay Lighting | New | Fixture | 6,059 | 92% | 1.0 | 13 | \$1,468 | 95% | 2.4 |
| FE-Met Ed | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | New | Fixture | 11,842 | 96% | 2.0 | 13 | \$1,149 | 95% | 6.3 |
| FE-Met Ed | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Grocery | High Bay Lighting | ROB | Fixture | 7,972 | 92% | 1.3 | 13 | \$1,468 | 95% | 3.2 |
| FE-Met Ed | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | ROB | Fixture | 15,582 | 96% | 2.6 | 13 | \$1,149 | 95% | 8.3 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Grocery | High Bay Lighting | Early | Fixture | 2,645 | 67% | 0.3 | 13 | \$960 | 95% | 1.2 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Grocery | High Bay Lighting | Early | Fixture | 7,791 | 89% | 1.2 | 13 | \$960 | 95% | 4.6 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Grocery | High Bay Lighting | Early | Fixture | 2,138 | 59% | 0.2 | 13 | \$960 | 95% | 0.8 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Grocery | High Bay Lighting | New | Fixture | 2,010 | 67% | 0.2 | 13 | \$480 | 95% | 1.8 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Grocery | High Bay Lighting | New | Fixture | 5,921 | 89% | 0.9 | 13 | \$491 | 95% | 6.8 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Grocery | High Bay Lighting | New | Fixture | 1,625 | 59% | 0.2 | 13 | \$406 | 95% | 1.5 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Grocery | High Bay Lighting | ROB | Fixture | 2,645 | 67% | 0.3 | 13 | \$480 | 95% | 2.3 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Grocery | High Bay Lighting | ROB | Fixture | 7,791 | 89% | 1.2 | 13 | \$491 | 95% | 9.0 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Grocery | High Bay Lighting | ROB | Fixture | 2,138 | 59% | 0.2 | 13 | \$406 | 95% | 2.0 |
| FE-Met Ed | Occupancy Sensor | Lighting w/ No Controls | Grocery | High Bay Lighting | Existing | building | 5,210 | 24% | 0.2 | 8 | \$447 | 12% | 1.2 |
| FE-Met Ed | Occupancy Sensor | Lighting w/ No Controls | Grocery | High Bay Lighting | New | building | 5,210 | 6.9% | 0.07 | 8 | \$447 | 0% | 0.4 |
| FE-Met Ed | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Grocery | High Bay Lighting | Existing | building | 5,210 | 28% | 0.3 | 8 | \$1,459 | 12% | 0.4 |
| FE-Met Ed | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Grocery | High Bay Lighting | New | building | 5,210 | 4.0% | 0.04 | 8 | \$1,459 | 0% | 0.1 |
| FE-Met Ed | Time Clock Control | Lighting w/ No Controls | Grocery | High Bay Lighting | Existing | building | 5,210 | 28% | 0.3 | 8 | \$296 | 13% | 2.2 |
| FE-Met Ed | Time Clock Control | Lighting w/ No Controls | Grocery | High Bay Lighting | New | building | 5,210 | 4.0% | 0.04 | 8 | \$296 | 0% | 0.3 |
| FE-Met Ed | Auto Off Time Switch | Lighting w/ No Controls | Grocery | Lin. Fluor. Lighting | Existing | building | 43,557 | 24% | 0.2 | 8 | \$296 | 13% | 12.1 |
| FE-Met Ed | Auto Off Time Switch | Lighting w/ No Controls | Grocery | Lin. Fluor. Lighting | New | building | 43,557 | 7.0% | 0.07 | 8 | \$296 | 0% | 3.5 |
| FE-Met Ed | Central Lighting Control System | Lighting w/ No Controls | Grocery | Lin. Fluor. Lighting | Existing | building | 43,557 | 38% | 0.4 | 8 | \$296 | 12% | 19.1 |
| FE-Met Ed | Central Lighting Control System | Lighting w/ No Controls | Grocery | Lin. Fluor. Lighting | New | building | 43,557 | 14% | 0.1 | 8 | \$296 | 12% | 7.1 |
| FE-Met Ed | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Grocery | Lin. Fluor. Lighting | New | building | 43,557 | 10% | 0.1 | 15 | \$69,961 | 32% | 0.0 |
| FE-Met Ed | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Grocery | Lin. Fluor. Lighting | New | building | 43,557 | 15% | 0.2 | 15 | \$174,902 | 32% | 0.0 |
| FE-Met Ed | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Grocery | Lin. Fluor. Lighting | New | building | 43,557 | 30% | 0.3 | 15 | \$250,693 | 32% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|--|--|---------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Grocery | Lin. Fluor. Lighting | Early | Lamp | 312 | 38% | 0.02 | 7 | \$7.3 | 94% | 6.1 |
| FE-Met Ed | Indoor Daylight Sensors | Lighting w/ No Controls | Grocery | Lin. Fluor. Lighting | Existing | building | 43,557 | 28% | 0.3 | 8 | \$1,459 | 13% | 2.9 |
| FE-Met Ed | Indoor Daylight Sensors | Lighting w/ No Controls | Grocery | Lin. Fluor. Lighting | New | building | 43,557 | 4.1% | 0.04 | 8 | \$1,459 | 0% | 0.4 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | Early | Lamp | 165 | 19% | 0.01 | 8 | \$35 | 94% | 0.4 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 40W T12 Lamp, Magnetic Ballast | Grocery | Lin. Fluor. Lighting | Early | Lamp | 363 | 63% | 0.04 | 8 | \$35 | 94% | 2.8 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | Early | Lamp | 204 | 34% | 0.01 | 8 | \$35 | 94% | 0.9 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | Early | Lamp | 197 | 32% | 0.01 | 8 | \$35 | 94% | 0.8 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | New | Lamp | 126 | 19% | 0.00 | 8 | \$28 | 94% | 0.4 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | New | Lamp | 150 | 32% | 0.01 | 8 | \$29 | 94% | 0.7 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | New | Lamp | 155 | 34% | 0.01 | 8 | \$22 | 94% | 1.1 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | New | Lamp | 150 | 32% | 0.01 | 8 | \$29 | 94% | 0.7 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | ROB | Lamp | 165 | 19% | 0.01 | 8 | \$28 | 94% | 0.5 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | ROB | Lamp | 197 | 32% | 0.01 | 8 | \$29 | 94% | 0.9 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | ROB | Lamp | 204 | 34% | 0.01 | 8 | \$22 | 94% | 1.4 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | ROB | Lamp | 197 | 32% | 0.01 | 8 | \$29 | 94% | 0.9 |
| FE-Met Ed | Occupancy Sensor | Lighting w/ No Controls | Grocery | Lin. Fluor. Lighting | Existing | building | 43,557 | 24% | 0.2 | 8 | \$447 | 13% | 8.0 |
| FE-Met Ed | Occupancy Sensor | Lighting w/ No Controls | Grocery | Lin. Fluor. Lighting | New | building | 43,557 | 7.0% | 0.07 | 8 | \$447 | 0% | 2.3 |
| FE-Met Ed | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Grocery | Lin. Fluor. Lighting | Existing | building | 43,557 | 28% | 0.3 | 8 | \$1,459 | 12% | 2.9 |
| FE-Met Ed | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Grocery | Lin. Fluor. Lighting | New | building | 43,557 | 4.1% | 0.04 | 8 | \$1,459 | 0% | 0.4 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 40W T12 w/ Magnetic Ballast | Grocery | Lin. Fluor. Lighting | Early | Lamp | 312 | 54% | 0.03 | 7 | \$9.1 | 94% | 7.0 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | Early | Lamp | 200 | 28% | 0.01 | 7 | \$9.1 | 24% | 2.3 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | Early | Lamp | 194 | 26% | 0.01 | 7 | \$9.1 | 94% | 2.1 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | New | Lamp | 147 | 26% | 0.01 | 7 | \$2.5 | 94% | 5.7 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | New | Lamp | 147 | 26% | 0.01 | 7 | \$2.5 | 94% | 5.7 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | New | Lamp | 152 | 28% | 0.01 | 7 | \$2.5 | 24% | 6.4 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | New | Lamp | 147 | 26% | 0.01 | 7 | \$2.5 | 94% | 5.7 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | ROB | Lamp | 194 | 26% | 0.01 | 7 | \$2.5 | 94% | 7.5 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | ROB | Lamp | 194 | 26% | 0.01 | 7 | \$2.5 | 94% | 7.5 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | ROB | Lamp | 200 | 28% | 0.01 | 7 | \$2.5 | 24% | 8.4 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | ROB | Lamp | 194 | 26% | 0.01 | 7 | \$2.5 | 94% | 7.5 |
| FE-Met Ed | T8 Lamp (any length) Electronic Ballast | Standard T12 lamp (any length) | Grocery | Lin. Fluor. Lighting | Early | Lamp | 367 | 42% | 0.02 | 7 | \$14 | 94% | 4.2 |
| FE-Met Ed | Time Clock Control | Lighting w/ No Controls | Grocery | Lin. Fluor. Lighting | Existing | building | 43,557 | 28% | 0.3 | 8 | \$296 | 14% | 14.1 |
| FE-Met Ed | Time Clock Control | Lighting w/ No Controls | Grocery | Lin. Fluor. Lighting | New | building | 43,557 | 4.1% | 0.04 | 8 | \$296 | 0% | 2.0 |
| FE-Met Ed | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | Early | motor | 4,517 | 3.7% | 0.02 | 15 | \$374 | 76% | 0.3 |
| FE-Met Ed | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | Early | motor | 4,517 | 3.7% | 0.02 | 15 | \$374 | 76% | 0.3 |
| FE-Met Ed | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | Early | motor | 4,517 | 3.7% | 0.02 | 15 | \$374 | 76% | 0.3 |
| FE-Met Ed | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | Early | motor | 4,517 | 3.7% | 0.02 | 15 | \$374 | 76% | 0.3 |
| FE-Met Ed | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | Early | motor | 4,517 | 3.7% | 0.02 | 15 | \$374 | 76% | 0.3 |
| FE-Met Ed | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | New | motor | 4,379 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| FE-Met Ed | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | New | motor | 4,379 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| FE-Met Ed | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | New | motor | 4,379 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| FE-Met Ed | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | New | motor | 4,379 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| FE-Met Ed | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | ROB | motor | 4,379 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| FE-Met Ed | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | ROB | motor | 4,379 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| FE-Met Ed | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | ROB | motor | 4,379 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| FE-Met Ed | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | ROB | motor | 4,379 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| FE-Met Ed | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | ROB | motor | 4,379 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| FE-Met Ed | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | ROB | motor | 4,379 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| FE-Met Ed | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | Early | motor | 6,660 | 3.1% | 0.03 | 15 | \$402 | 76% | 0.3 |
| FE-Met Ed | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | Early | motor | 6,660 | 3.1% | 0.03 | 15 | \$402 | 76% | 0.3 |
| FE-Met Ed | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | Early | motor | 6,660 | 3.1% | 0.03 | 15 | \$402 | 76% | 0.3 |
| FE-Met Ed | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | Early | motor | 6,660 | 3.1% | 0.03 | 15 | \$402 | 76% | 0.3 |
| FE-Met Ed | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | Early | motor | 6,660 | 3.1% | 0.03 | 15 | \$402 | 76% | 0.3 |
| FE-Met Ed | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | New | motor | 6,493 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.4 |
| FE-Met Ed | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | New | motor | 6,493 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.4 |
| FE-Met Ed | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | New | motor | 6,493 | 0.6% | 0.01 | 15 | \$60 | 76% | 0.4 |
| FE-Met Ed | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | New | motor | 6,493 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.4 |
| FE-Met Ed | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | ROB | motor | 6,493 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.4 |
| FE-Met Ed | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | ROB | motor | 6,493 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.4 |
| FE-Met Ed | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | ROB | motor | 6,493 | 0.6% | 0.01 | 15 | \$60 | 76% | 0.4 |
| FE-Met Ed | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | ROB | motor | 6,493 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.4 |
| FE-Met Ed | 100 HP Motor, Ultra-PE | 100 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | Early | motor | 397,180 | 1.7% | 0.9 | 15 | \$5,100 | 47% | 0.9 |
| FE-Met Ed | 100 HP Motor, Ultra-PE | 100 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | Early | motor | 397,180 | 1.7% | 0.9 | 15 | \$5,100 | 47% | 0.9 |
| FE-Met Ed | 100 HP Motor, Ultra-PE | 100 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | Early | motor | 397,180 | 1.7% | 0.9 | 15 | \$5,100 | 47% | 0.9 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|---|---------|---------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | New | motor | 295,593 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.9 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | ROB | motor | 295,593 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.9 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | ROB | motor | 295,593 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.9 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | ROB | motor | 295,593 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.9 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | ROB | motor | 295,593 | 0.5% | 0.2 | 15 | \$554 | 61% | 2.0 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | ROB | motor | 295,593 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.9 |
| FE-Met Ed | ASD HVAC Fan | Std. HVAC Fan | Grocery | Motors | New | measure | 2,699 | 9.1% | 0.03 | 15 | \$49,801 | 85% | 0.0 |
| FE-Met Ed | ASD HVAC Fan | Std. HVAC Fan | Grocery | Motors | ROB | measure | 2,699 | 9.1% | 0.03 | 15 | \$49,801 | 85% | 0.0 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Grocery | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 23.0 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Grocery | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 23.5 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Grocery | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 24.1 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Grocery | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 24.6 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Grocery | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 25.1 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Grocery | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 22.8 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Grocery | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 23.7 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Grocery | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 23.9 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Grocery | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 24.7 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Grocery | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 25.0 |
| FE-Met Ed | Escalator Motor Controller | Constant power control | Grocery | Motors | New | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 22% | 6.3 |
| FE-Met Ed | Escalator Motor Controller | Constant power control | Grocery | Motors | ROB | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 22% | 6.3 |
| FE-Met Ed | Variable Speed Drive Control, 15HP | Existing Motors w/out VSD Drive | Grocery | Motors | Early | motor | 61,717 | 70% | 6.3 | 15 | \$731 | 86% | 41.4 |
| FE-Met Ed | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Grocery | Motors | New | motor | 60,390 | 72% | 6.4 | 15 | \$731 | 86% | 41.4 |
| FE-Met Ed | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Grocery | Motors | ROB | motor | 60,390 | 72% | 6.4 | 15 | \$731 | 86% | 41.4 |
| FE-Met Ed | Variable Speed Drive Control, 40HP | Existing Motors w/out VSD Drive | Grocery | Motors | Early | motor | 161,040 | 71% | 16.8 | 15 | \$4,666 | 86% | 17.1 |
| FE-Met Ed | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Grocery | Motors | New | motor | 159,157 | 72% | 16.7 | 15 | \$4,666 | 86% | 17.1 |
| FE-Met Ed | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Grocery | Motors | ROB | motor | 159,157 | 72% | 16.7 | 15 | \$4,666 | 86% | 17.1 |
| FE-Met Ed | Variable Speed Drive Control, 5HP | Existing Motors w/out VFD Drive | Grocery | Motors | Early | motor | 21,395 | 72% | 2.3 | 15 | \$2,243 | 86% | 4.8 |
| FE-Met Ed | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Grocery | Motors | New | motor | 20,917 | 72% | 2.2 | 15 | \$2,243 | 86% | 4.7 |
| FE-Met Ed | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Grocery | Motors | ROB | motor | 20,917 | 72% | 2.2 | 15 | \$2,243 | 86% | 4.7 |
| FE-Met Ed | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Grocery | Motors | Early | motor | 3,452 | 32% | 0.1 | 15 | \$268 | 86% | 2.8 |
| FE-Met Ed | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Grocery | Motors | New | motor | 3,452 | 32% | 0.1 | 15 | \$268 | 86% | 2.8 |
| FE-Met Ed | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Grocery | Motors | ROB | motor | 3,452 | 32% | 0.1 | 15 | \$268 | 86% | 2.8 |
| FE-Met Ed | VFD on Chilled Water Pump | Motor w/out VFD Drive | Grocery | Motors | Early | motor | 16,590 | 55% | 2.7 | 15 | \$2,903 | 86% | 2.6 |
| FE-Met Ed | VFD on Chilled Water Pump | Motor w/out VFD Drive | Grocery | Motors | New | motor | 16,280 | 55% | 2.7 | 15 | \$2,843 | 86% | 2.6 |
| FE-Met Ed | VFD on Chilled Water Pump | Motor w/out VFD Drive | Grocery | Motors | ROB | motor | 16,280 | 55% | 2.7 | 15 | \$2,843 | 86% | 2.6 |
| FE-Met Ed | VFD on Condenser Water Pump | Motor w/out VFD Drive | Grocery | Motors | Early | motor | 18,641 | 32% | 3.2 | 15 | \$2,903 | 86% | 2.2 |
| FE-Met Ed | VFD on Condenser Water Pump | Motor w/out VFD Drive | Grocery | Motors | New | motor | 18,292 | 33% | 3.1 | 15 | \$2,843 | 86% | 2.2 |
| FE-Met Ed | VFD on Condenser Water Pump | Motor w/out VFD Drive | Grocery | Motors | ROB | motor | 18,292 | 33% | 3.1 | 15 | \$2,843 | 86% | 2.2 |
| FE-Met Ed | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Grocery | Motors | Early | motor | 27,718 | 56% | 0.00 | 15 | \$2,903 | 86% | 2.9 |
| FE-Met Ed | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Grocery | Motors | New | motor | 27,199 | 57% | 0.00 | 15 | \$2,843 | 86% | 3.0 |
| FE-Met Ed | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Grocery | Motors | ROB | motor | 27,199 | 57% | 0.00 | 15 | \$2,843 | 86% | 3.0 |
| FE-Met Ed | VFD on HVAC Fan | Motor w/out VFD | Grocery | Motors | Early | motor | 18,724 | 70% | 3.4 | 15 | \$2,903 | 86% | 3.7 |
| FE-Met Ed | VFD on HVAC Fan | Motor w/out VFD | Grocery | Motors | New | motor | 18,373 | 72% | 3.3 | 15 | \$2,843 | 86% | 3.7 |
| FE-Met Ed | VFD on HVAC Fan | Motor w/out VFD | Grocery | Motors | ROB | motor | 18,373 | 72% | 3.3 | 15 | \$2,843 | 86% | 3.7 |
| FE-Met Ed | Variable Speed Drives on Process Equipment | Constant speed control | Grocery | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 11.3 |
| FE-Met Ed | Variable Speed Drives on Process Equipment | Constant speed control | Grocery | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 11.3 |
| FE-Met Ed | Auto Off Time Switch | Lighting w/ No Controls | Grocery | Other Int. Lighting | Existing | building | 5,371 | 24% | 0.2 | 8 | \$296 | 13% | 1.9 |
| FE-Met Ed | Auto Off Time Switch | Lighting w/ No Controls | Grocery | Other Int. Lighting | New | building | 5,371 | 7.0% | 0.07 | 8 | \$296 | 0% | 0.6 |
| FE-Met Ed | Central Lighting Control System | Lighting w/ No Controls | Grocery | Other Int. Lighting | Existing | building | 5,371 | 38% | 0.4 | 8 | \$296 | 13% | 3.0 |
| FE-Met Ed | Central Lighting Control System | Lighting w/ No Controls | Grocery | Other Int. Lighting | New | building | 5,371 | 14% | 0.1 | 8 | \$296 | 13% | 1.1 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 40W Incandescent Bulb | Grocery | Other Int. Lighting | Early | lamp | 382 | 87% | 0.06 | 4 | \$30 | 14% | 2.6 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Grocery | Other Int. Lighting | Early | lamp | 274 | 81% | 0.04 | 4 | \$30 | 11% | 1.8 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Grocery | Other Int. Lighting | New | lamp | 208 | 81% | 0.03 | 4 | \$21 | 14% | 1.9 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Grocery | Other Int. Lighting | New | lamp | 208 | 81% | 0.03 | 4 | \$23 | 14% | 1.7 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Grocery | Other Int. Lighting | New | lamp | 208 | 81% | 0.03 | 4 | \$22 | 11% | 1.8 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Grocery | Other Int. Lighting | ROB | lamp | 274 | 81% | 0.04 | 4 | \$21 | 14% | 2.5 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Grocery | Other Int. Lighting | ROB | lamp | 274 | 81% | 0.04 | 4 | \$23 | 14% | 2.3 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Grocery | Other Int. Lighting | ROB | lamp | 274 | 81% | 0.04 | 4 | \$22 | 11% | 2.4 |
| FE-Met Ed | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Grocery | Other Int. Lighting | Early | lamp | 382 | 75% | 0.05 | 2 | \$73 | 24% | 0.5 |
| FE-Met Ed | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Grocery | Other Int. Lighting | New | fixture | 416 | 65% | 0.05 | 13 | \$29 | 28% | 6.0 |
| FE-Met Ed | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Grocery | Other Int. Lighting | New | lamp | 208 | 65% | 0.02 | 2 | \$29 | 28% | 0.6 |
| FE-Met Ed | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Grocery | Other Int. Lighting | ROB | fixture | 547 | 65% | 0.06 | 13 | \$29 | 24% | 7.9 |
| FE-Met Ed | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Grocery | Other Int. Lighting | ROB | lamp | 274 | 65% | 0.03 | 2 | \$29 | 24% | 0.8 |
| FE-Met Ed | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Grocery | Other Int. Lighting | Early | lamp | 382 | 75% | 0.05 | 2 | \$3.2 | 24% | 11.2 |
| FE-Met Ed | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Grocery | Other Int. Lighting | New | lamp | 208 | 65% | 0.02 | 2 | \$1.8 | 24% | 9.5 |
| FE-Met Ed | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Grocery | Other Int. Lighting | ROB | lamp | 274 | 65% | 0.03 | 2 | \$1.8 | 24% | 12.5 |
| FE-Met Ed | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Grocery | Other Int. Lighting | ROB | lamp | 274 | 65% | 0.03 | 2 | \$1.8 | 24% | 12.5 |
| FE-Met Ed | Exit Sign Retrofit: CFL replacing Incandescent | One 23W Single Sided Incandescent Exit Sign | Grocery | Other Int. Lighting | Early | exit sign | 134 | 42% | 0.01 | 15 | \$48 | 22% | 0.8 |
| FE-Met Ed | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Grocery | Other Int. Lighting | New | building | 5,371 | 10% | 0.1 | 15 | \$69,961 | 32% | 0.0 |
| FE-Met Ed | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Grocery | Other Int. Lighting | New | building | 5,371 | 15% | 0.2 | 15 | \$174,902 | 32% | 0.0 |
| FE-Met Ed | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Grocery | Other Int. Lighting | New | building | 5,371 | 30% | 0.3 | 15 | \$250,693 | 32% | 0.0 |
| FE-Met Ed | Indoor Daylight Sensors | Lighting w/ No Controls | Grocery | Other Int. Lighting | Existing | building | 5,371 | 28% | 0.3 | 8 | \$1,459 | 13% | 0.5 |
| FE-Met Ed | Indoor Daylight Sensors | Lighting w/ No Controls | Grocery | Other Int. Lighting | New | building | 5,371 | 4.1% | 0.04 | 8 | \$1,459 | 0% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|---|---------|---------------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | LED Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Grocery | Other Int. Lighting | Early | sign | 153 | 87% | 0.02 | 15 | \$48 | 16% | 1.9 |
| FE-Met Ed | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Grocery | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 2.1 |
| FE-Met Ed | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Grocery | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 2.1 |
| FE-Met Ed | LED Task Lighting/Screw-In | 1 15W CFL bulb | Grocery | Other Int. Lighting | Early | lamp | 115 | 33% | 0.01 | 3 | \$9.6 | 24% | 0.7 |
| FE-Met Ed | LED Task Lighting/Screw-In | 1 60W Incandescent Bulb | Grocery | Other Int. Lighting | Early | lamp | 460 | 83% | 0.06 | 3 | \$9.6 | 24% | 7.0 |
| FE-Met Ed | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Grocery | Other Int. Lighting | New | lamp | 251 | 77% | 0.03 | 3 | \$7.9 | 24% | 4.3 |
| FE-Met Ed | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Grocery | Other Int. Lighting | New | lamp | 251 | 77% | 0.03 | 3 | \$7.9 | 24% | 4.3 |
| FE-Met Ed | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Grocery | Other Int. Lighting | ROB | lamp | 330 | 77% | 0.04 | 3 | \$7.9 | 24% | 5.6 |
| FE-Met Ed | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Grocery | Other Int. Lighting | ROB | lamp | 330 | 77% | 0.04 | 3 | \$7.9 | 24% | 5.6 |
| FE-Met Ed | Occupancy Sensor | Lighting w/ No Controls | Grocery | Other Int. Lighting | Existing | building | 5,371 | 24% | 0.2 | 8 | \$447 | 12% | 1.3 |
| FE-Met Ed | Occupancy Sensor | Lighting w/ No Controls | Grocery | Other Int. Lighting | New | building | 5,371 | 7.0% | 0.07 | 8 | \$447 | 0% | 0.4 |
| FE-Met Ed | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Grocery | Other Int. Lighting | Existing | building | 5,371 | 28% | 0.3 | 8 | \$1,459 | 12% | 0.5 |
| FE-Met Ed | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Grocery | Other Int. Lighting | New | building | 5,371 | 4.1% | 0.04 | 8 | \$1,459 | 0% | 0.1 |
| FE-Met Ed | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Grocery | Other Int. Lighting | Early | exit sign | 134 | 100% | 0.02 | 15 | \$173 | 26% | 0.5 |
| FE-Met Ed | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Grocery | Other Int. Lighting | New | exit sign | 77 | 100% | 0.01 | 15 | \$148 | 31% | 0.4 |
| FE-Met Ed | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Grocery | Other Int. Lighting | ROB | exit sign | 77 | 100% | 0.01 | 15 | \$148 | 26% | 0.4 |
| FE-Met Ed | Time Clock Control | Lighting w/ No Controls | Grocery | Other Int. Lighting | Existing | building | 5,371 | 28% | 0.3 | 8 | \$296 | 13% | 2.2 |
| FE-Met Ed | Time Clock Control | Lighting w/ No Controls | Grocery | Other Int. Lighting | New | building | 5,371 | 4.1% | 0.04 | 8 | \$296 | 0% | 0.3 |
| FE-Met Ed | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Grocery | Plug Load | Existing | building | 1,514 | 46% | 0.5 | 5 | \$189 | 4% | 1.8 |
| FE-Met Ed | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Grocery | Plug Load | New | building | 1,514 | 46% | 0.5 | 5 | \$189 | 4% | 1.8 |
| FE-Met Ed | Data Center - Server/Storage Consolidation | No Consolidation | Grocery | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Met Ed | Data Center - Server/Storage Consolidation | No Consolidation | Grocery | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Met Ed | Data Center - Server/Storage Virtualization | No Virtualization | Grocery | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Met Ed | Data Center - Server/Storage Virtualization | No Virtualization | Grocery | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Met Ed | Energy Star - Scanners | Std Scanner | Grocery | Plug Load | New | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| FE-Met Ed | Energy Star - Scanners | Std Scanner | Grocery | Plug Load | ROB | measure | 68 | 3.8% | 0.04 | 4 | \$130 | 7% | 0.1 |
| FE-Met Ed | Energy Star Battery Charging System (for small cordless products) | Std. Battery Charging System | Grocery | Plug Load | ROB | measure | 593 | 2.3% | 0.10 | 5 | \$65 | 4% | 0.6 |
| FE-Met Ed | Energy Star Dishwasher | Existing Dishwasher units | Grocery | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,580 | 16% | 1.1 |
| FE-Met Ed | Energy Star Dishwasher | Standard Dishwasher unit | Grocery | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 16% | 3.5 |
| FE-Met Ed | Energy Star Dishwasher | Standard Dishwasher unit | Grocery | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 16% | 3.5 |
| FE-Met Ed | Energy Star External Power Adapter | Std. Power Adapter | Grocery | Plug Load | New | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| FE-Met Ed | Energy Star External Power Adapter | Std. Power Adapter | Grocery | Plug Load | ROB | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| FE-Met Ed | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Grocery | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 17% | 0.2 |
| FE-Met Ed | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Grocery | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.1 |
| FE-Met Ed | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Grocery | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.1 |
| FE-Met Ed | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Grocery | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 9% | 0.8 |
| FE-Met Ed | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Grocery | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.7 |
| FE-Met Ed | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Grocery | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.7 |
| FE-Met Ed | ENERGY STAR® Copiers | 10% Less Efficient Copier | Grocery | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 18% | 0.0 |
| FE-Met Ed | ENERGY STAR® Copiers | One Conventional Copier | Grocery | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| FE-Met Ed | ENERGY STAR® Copiers | One Conventional Copier | Grocery | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| FE-Met Ed | ENERGY STAR® desktop | Standard computer | Grocery | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 69% | 0.1 |
| FE-Met Ed | ENERGY STAR® desktop | Standard computer | Grocery | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.4 |
| FE-Met Ed | ENERGY STAR® desktop | Standard computer | Grocery | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.4 |
| FE-Met Ed | ENERGY STAR® Fax | 10% Less Efficient Fax | Grocery | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 15% | 0.0 |
| FE-Met Ed | ENERGY STAR® Fax | One Conventional Fax | Grocery | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| FE-Met Ed | ENERGY STAR® Fax | One Conventional Fax | Grocery | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| FE-Met Ed | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Grocery | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 70% | 0.0 |
| FE-Met Ed | ENERGY STAR® Monitors | One Conventional Monitor | Grocery | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| FE-Met Ed | ENERGY STAR® Monitors | One Conventional Monitor | Grocery | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| FE-Met Ed | ENERGY STAR® Printers | 10% Less Efficient Printer | Grocery | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 44% | 0.0 |
| FE-Met Ed | ENERGY STAR® Printers | One Conventional Printer | Grocery | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.4 |
| FE-Met Ed | ENERGY STAR® Printers | One Conventional Printer | Grocery | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.4 |
| FE-Met Ed | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Grocery | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 43% | 0.1 |
| FE-Met Ed | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Grocery | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.8 |
| FE-Met Ed | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Grocery | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.8 |
| FE-Met Ed | ENERGY STAR® Televisions | 10% Less Efficient Television | Grocery | Plug Load | Early | Unit | 505 | 38% | 0.03 | 6 | \$672 | 40% | 0.1 |
| FE-Met Ed | ENERGY STAR® Televisions | One Conventional Television | Grocery | Plug Load | New | Unit | 459 | 32% | 0.02 | 6 | \$206 | 40% | 0.2 |
| FE-Met Ed | ENERGY STAR® Televisions | One Conventional Television | Grocery | Plug Load | ROB | Unit | 459 | 32% | 0.02 | 6 | \$206 | 40% | 0.2 |
| FE-Met Ed | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Grocery | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 24% | 0.3 |
| FE-Met Ed | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Grocery | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.7 |
| FE-Met Ed | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Grocery | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.7 |
| FE-Met Ed | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Grocery | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.3 |
| FE-Met Ed | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Grocery | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.3 |
| FE-Met Ed | Network PC Power Management | No PC Power Management | Grocery | Plug Load | Existing | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 8.8 |
| FE-Met Ed | Network PC Power Management | No PC Power Management | Grocery | Plug Load | New | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 8.8 |
| FE-Met Ed | Smart Strip Plug Outlets | Standard plug strip/outlet | Grocery | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.5 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|--|---------|---------------|----------|-------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Smart Strip Plug Outlets | Standard plug strip/outlet | Grocery | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.5 |
| FE-Met Ed | Smart Strip Plug Outlets | Standard plug strip/outlet | Grocery | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Met Ed | Smart Strip Plug Outlets | Standard plug strip/outlet | Grocery | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Met Ed | Smart Strip Plug Outlets | Standard plug strip/outlet | Grocery | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Met Ed | Smart Strip Plug Outlets | Standard plug strip/outlet | Grocery | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Met Ed | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Grocery | Plug Load | Existing | building | 1,514 | 46% | 0.5 | 5 | \$180 | 3% | 1.9 |
| FE-Met Ed | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Grocery | Plug Load | New | building | 1,514 | 46% | 0.5 | 5 | \$180 | 3% | 1.9 |
| FE-Met Ed | Air curtain technology | Strip plastic curtain | Grocery | Refrigeration | New | building | 74,837 | 3.1% | 0.03 | 8 | \$131 | 35% | 5.7 |
| FE-Met Ed | Air curtain technology | Strip plastic curtain | Grocery | Refrigeration | New | building | 40,626 | 3.1% | 0.03 | 8 | \$133 | 35% | 3.1 |
| FE-Met Ed | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Grocery | Refrigeration | Existing | building | 89,805 | 0.7% | 0.01 | 12 | \$70 | 11% | 4.2 |
| FE-Met Ed | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Grocery | Refrigeration | New | building | 89,805 | 0.7% | 0.01 | 12 | \$70 | 11% | 4.2 |
| FE-Met Ed | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Grocery | Refrigeration | Existing | building | 89,805 | 1.5% | 0.02 | 12 | \$70 | 11% | 8.7 |
| FE-Met Ed | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Grocery | Refrigeration | New | building | 89,805 | 1.5% | 0.02 | 12 | \$70 | 11% | 8.6 |
| FE-Met Ed | Auto Closer on Refrigerator Door | Door w/out Autocloser | Grocery | Refrigeration | Existing | building | 74,837 | 1.4% | 0.01 | 8 | \$817 | 40% | 0.4 |
| FE-Met Ed | Auto Closer on Refrigerator Door | Door w/out Autocloser | Grocery | Refrigeration | Existing | building | 40,626 | 1.1% | 0.01 | 8 | \$1,208 | 40% | 0.1 |
| FE-Met Ed | Auto Closer on Refrigerator Door | Door w/out Autocloser | Grocery | Refrigeration | New | building | 74,837 | 1.4% | 0.01 | 8 | \$817 | 40% | 0.4 |
| FE-Met Ed | Auto Closer on Refrigerator Door | Door w/out Autocloser | Grocery | Refrigeration | New | building | 40,626 | 1.1% | 0.01 | 8 | \$1,208 | 40% | 0.1 |
| FE-Met Ed | Demand Hot Gas Defrost | Base Refrigeration System | Grocery | Refrigeration | Existing | measure | 89,805 | 3.0% | 0.03 | 10 | \$1,307 | 83% | 0.8 |
| FE-Met Ed | Demand Hot Gas Defrost | Base Refrigeration System | Grocery | Refrigeration | New | measure | 89,805 | 3.0% | 0.03 | 10 | \$1,307 | 79% | 0.8 |
| FE-Met Ed | Door Gasket- Freezer | Door w/out Gasket | Grocery | Refrigeration | Existing | building | 74,837 | 0.9% | 0.01 | 4 | \$84 | 29% | 1.4 |
| FE-Met Ed | Door Gasket- Freezer | Door w/out Gasket | Grocery | Refrigeration | New | building | 74,837 | 0.9% | 0.01 | 4 | \$84 | 29% | 1.4 |
| FE-Met Ed | Door Gasket- Refrigerator | Door w/out Gasket | Grocery | Refrigeration | Existing | building | 40,626 | 0.4% | 0.00 | 4 | \$167 | 45% | 0.2 |
| FE-Met Ed | Door Gasket- Refrigerator | Door w/out Gasket | Grocery | Refrigeration | New | building | 40,626 | 0.4% | 0.00 | 4 | \$167 | 45% | 0.2 |
| FE-Met Ed | Economizer for Walk-in Coolers | No Economizer | Grocery | Refrigeration | Early | measure | 213,168 | 12% | 3.6 | 10 | \$2,237 | 72% | 5.5 |
| FE-Met Ed | Economizer for Walk-in Coolers | No Economizer | Grocery | Refrigeration | Early | measure | 213,168 | 12% | 3.6 | 10 | \$2,237 | 72% | 5.5 |
| FE-Met Ed | Economizer for Walk-in Coolers | No Economizer | Grocery | Refrigeration | Early | measure | 213,168 | 12% | 3.6 | 10 | \$2,237 | 72% | 5.5 |
| FE-Met Ed | Economizer for Walk-in Coolers | No Economizer | Grocery | Refrigeration | New | measure | 213,168 | 12% | 3.6 | 10 | \$176 | 72% | 70.1 |
| FE-Met Ed | Economizer for Walk-in Coolers | No Economizer | Grocery | Refrigeration | New | measure | 213,168 | 12% | 3.6 | 10 | \$176 | 72% | 70.1 |
| FE-Met Ed | Economizer for Walk-in Coolers | No Economizer | Grocery | Refrigeration | New | measure | 213,168 | 12% | 3.6 | 10 | \$176 | 72% | 70.2 |
| FE-Met Ed | Economizer for Walk-in Coolers | No Economizer | Grocery | Refrigeration | ROB | measure | 213,168 | 12% | 3.6 | 10 | \$176 | 72% | 70.1 |
| FE-Met Ed | Economizer for Walk-in Coolers | No Economizer | Grocery | Refrigeration | ROB | measure | 213,168 | 12% | 3.6 | 10 | \$176 | 72% | 70.1 |
| FE-Met Ed | Economizer for Walk-in Coolers | No Economizer | Grocery | Refrigeration | ROB | measure | 213,168 | 12% | 3.6 | 10 | \$176 | 72% | 70.2 |
| FE-Met Ed | eCube | Refrigeration unit w/out eCube | Grocery | Refrigeration | Existing | building | 40,626 | 15% | 0.2 | 15 | \$637 | 57% | 5.4 |
| FE-Met Ed | eCube | Refrigeration unit w/out eCube | Grocery | Refrigeration | New | building | 40,626 | 15% | 0.2 | 15 | \$637 | 57% | 5.4 |
| FE-Met Ed | Efficient compressor motor | Base Refrigeration System - Grocery | Grocery | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 83% | 2.7 |
| FE-Met Ed | Efficient compressor motor | Base Refrigeration System - Grocery | Grocery | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 83% | 2.7 |
| FE-Met Ed | Efficient compressor motor | Base Refrigeration System - Grocery | Grocery | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 83% | 2.7 |
| FE-Met Ed | Efficient compressor motor | Base Refrigeration System - Grocery | Grocery | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 83% | 2.7 |
| FE-Met Ed | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Grocery | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.6 |
| FE-Met Ed | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Grocery | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| FE-Met Ed | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Grocery | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| FE-Met Ed | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Grocery | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.3 |
| FE-Met Ed | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Grocery | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.8 |
| FE-Met Ed | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Grocery | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.8 |
| FE-Met Ed | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Grocery | Refrigeration | Existing | building | 40,626 | 0.2% | 0.00 | 10 | \$369 | 77% | 0.1 |
| FE-Met Ed | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Grocery | Refrigeration | New | building | 40,626 | 0.2% | 0.00 | 10 | \$369 | 77% | 0.1 |
| FE-Met Ed | Floating head pressure controller | System w/out FHPC | Grocery | Refrigeration | Existing | building | 74,837 | 1.8% | 0.01 | 15 | \$8,682 | 41% | 0.1 |
| FE-Met Ed | Floating head pressure controller | System w/out FHPC | Grocery | Refrigeration | Existing | building | 40,626 | 1.2% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| FE-Met Ed | Floating head pressure controller | System w/out FHPC | Grocery | Refrigeration | Existing | building | 89,805 | 0.6% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| FE-Met Ed | Floating head pressure controller | System w/out FHPC | Grocery | Refrigeration | New | building | 74,837 | 1.8% | 0.01 | 15 | \$8,682 | 41% | 0.1 |
| FE-Met Ed | Floating head pressure controller | System w/out FHPC | Grocery | Refrigeration | New | building | 40,626 | 1.2% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| FE-Met Ed | Floating head pressure controller | System w/out FHPC | Grocery | Refrigeration | New | building | 89,805 | 0.6% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| FE-Met Ed | High Efficiency Commercial Freezer | Std. Commercial Freezer | Grocery | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 79% | 0.3 |
| FE-Met Ed | High Efficiency Commercial Freezer | Std. Commercial Freezer | Grocery | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 79% | 4.1 |
| FE-Met Ed | High Efficiency Commercial Freezer | Std. Commercial Freezer | Grocery | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 79% | 4.1 |
| FE-Met Ed | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Grocery | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 79% | 0.1 |
| FE-Met Ed | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Grocery | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 79% | 0.9 |
| FE-Met Ed | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Grocery | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 79% | 0.9 |
| FE-Met Ed | High Efficiency Ice Maker | Existing Standard Efficiency Ice Maker in Pennsylvania | Grocery | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 69% | 0.2 |
| FE-Met Ed | High Efficiency Ice Maker | Standard code minimum Ice Maker | Grocery | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 69% | 0.2 |
| FE-Met Ed | High Efficiency Ice Maker | Standard code minimum Ice Maker | Grocery | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 69% | 0.2 |
| FE-Met Ed | High Efficiency Ice Making Head | Standard Ice Making Head | Grocery | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 4.0 |
| FE-Met Ed | High Efficiency Ice Making Head | Standard Ice Making Head | Grocery | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 4.0 |
| FE-Met Ed | High R-Value Glass Doors | Base Refrigeration System - Grocery | Grocery | Refrigeration | Existing | building | 89,805 | 0.7% | 0.01 | 10 | \$313 | 90% | 0.8 |
| FE-Met Ed | High R-Value Glass Doors | Base Refrigeration System - Grocery | Grocery | Refrigeration | New | building | 89,805 | 0.7% | 0.01 | 10 | \$313 | 90% | 0.8 |
| FE-Met Ed | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Grocery | Refrigeration | Early | Fixture | 373 | 56% | 0.03 | 8 | \$448 | 89% | 0.2 |
| FE-Met Ed | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Grocery | Refrigeration | New | Fixture | 291 | 44% | 0.02 | 8 | \$139 | 89% | 0.4 |
| FE-Met Ed | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Grocery | Refrigeration | ROB | Fixture | 291 | 44% | 0.02 | 8 | \$139 | 89% | 0.4 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|--|---------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | No-heat glass doors | Standard low-temp reach-in | Grocery | Refrigeration | Existing | building | 89,805 | 20% | 0.2 | 10 | \$28,594 | 8% | 0.2 |
| FE-Met Ed | No-heat glass doors | Standard low-temp reach-in | Grocery | Refrigeration | New | building | 89,805 | 20% | 0.2 | 10 | \$28,594 | 8% | 0.2 |
| FE-Met Ed | Quick acting freezer doors | Std. Freezer Doors | Grocery | Refrigeration | Existing | building | 74,837 | 13% | 0.1 | 10 | \$16,826 | 56% | 0.2 |
| FE-Met Ed | Quick acting freezer doors | Std. Freezer Doors | Grocery | Refrigeration | New | building | 74,837 | 13% | 0.1 | 10 | \$16,826 | 56% | 0.2 |
| FE-Met Ed | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Grocery | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 29% | 0.4 |
| FE-Met Ed | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Grocery | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 29% | 1.6 |
| FE-Met Ed | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Grocery | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 29% | 1.6 |
| FE-Met Ed | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 29% | 1.7 |
| FE-Met Ed | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 29% | 3.0 |
| FE-Met Ed | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 29% | 3.0 |
| FE-Met Ed | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 29% | 1.7 |
| FE-Met Ed | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 29% | 4.0 |
| FE-Met Ed | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 29% | 4.0 |
| FE-Met Ed | Refrigeration Commissioning | Non-commissioned refrigeration system | Grocery | Refrigeration | Existing | building | 213,821 | 9.5% | 0.10 | 3 | \$35,188 | 85% | 0.1 |
| FE-Met Ed | Refrigeration Commissioning | Non-commissioned refrigeration system | Grocery | Refrigeration | New | building | 213,821 | 9.5% | 0.10 | 3 | \$35,188 | 85% | 0.1 |
| FE-Met Ed | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Grocery | Refrigeration | Existing | building | 74,837 | 1.8% | 0.02 | 4 | \$102 | 22% | 2.4 |
| FE-Met Ed | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Grocery | Refrigeration | Existing | building | 40,626 | 0.5% | 0.01 | 4 | \$203 | 22% | 0.2 |
| FE-Met Ed | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Grocery | Refrigeration | New | building | 74,837 | 1.8% | 0.02 | 4 | \$102 | 22% | 2.4 |
| FE-Met Ed | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Grocery | Refrigeration | New | building | 40,626 | 0.5% | 0.01 | 4 | \$203 | 22% | 0.2 |
| FE-Met Ed | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Grocery | Refrigeration | Existing | building | 74,837 | 0.4% | 0.00 | 11 | \$167 | 77% | 0.8 |
| FE-Met Ed | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Grocery | Refrigeration | New | building | 74,837 | 0.4% | 0.00 | 11 | \$167 | 77% | 0.8 |
| FE-Met Ed | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Grocery | Refrigeration | Existing | building | 40,626 | 0.3% | 0.00 | 11 | \$167 | 77% | 0.3 |
| FE-Met Ed | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Grocery | Refrigeration | New | building | 40,626 | 0.3% | 0.00 | 11 | \$167 | 77% | 0.3 |
| FE-Met Ed | Vendor Miser | No Vendor Miser | Grocery | Refrigeration | Existing | machine | 8,553 | 0.5% | 0.00 | 8 | \$38 | 7% | 0.4 |
| FE-Met Ed | Vertical Night Covers | Display cases w/out night covers-High Temperature | Grocery | Refrigeration | Existing | building | 89,805 | 0.1% | 0.00 | 5 | \$242 | 9% | 0.1 |
| FE-Met Ed | Vertical Night Covers | Display cases w/out night covers-High Temperature | Grocery | Refrigeration | New | building | 89,805 | 0.1% | 0.00 | 5 | \$242 | 9% | 0.1 |
| FE-Met Ed | VSD Controlled Compressor | Compressor w/out VSD | Grocery | Refrigeration | Early | Refrigerator | 7,487 | 14% | 0.1 | 15 | \$731 | 73% | 0.9 |
| FE-Met Ed | VSD Controlled Compressor | Compressor w/out VSD | Grocery | Refrigeration | New | Refrigerator | 7,487 | 14% | 0.1 | 15 | \$731 | 73% | 1.0 |
| FE-Met Ed | VSD Controlled Compressor | Compressor w/out VSD | Grocery | Refrigeration | ROB | Refrigerator | 7,487 | 14% | 0.1 | 15 | \$731 | 73% | 0.9 |
| FE-Met Ed | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Grocery | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$269 | 35% | 0.9 |
| FE-Met Ed | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Grocery | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$269 | 35% | 0.9 |
| FE-Met Ed | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Grocery | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.2 |
| FE-Met Ed | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Grocery | Refrigeration | New | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 3.0 |
| FE-Met Ed | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Grocery | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.2 |
| FE-Met Ed | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Grocery | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 3.0 |
| FE-Met Ed | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 35% | 2.4 |
| FE-Met Ed | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 35% | 2.3 |
| FE-Met Ed | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 5.2 |
| FE-Met Ed | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.9 |
| FE-Met Ed | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 5.2 |
| FE-Met Ed | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.9 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Grocery | Space Heating | Existing | building | 16,154 | 7.1% | 0.07 | 6 | \$24,774 | 82% | 0.0 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Grocery | Space Heating | New | building | 16,154 | 7.1% | 0.07 | 6 | \$24,774 | 82% | 0.0 |
| FE-Met Ed | Adding window shade film | No shade film | Grocery | Space Heating | Existing | building | 16,154 | 1.3% | 0.4 | 10 | \$197 | 13% | 1.7 |
| FE-Met Ed | Adding window shade film | No shade film | Grocery | Space Heating | New | building | 16,154 | 1.3% | 0.4 | 10 | \$197 | 13% | 1.7 |
| FE-Met Ed | Adding window shade screen | No shade screen | Grocery | Space Heating | Existing | building | 16,154 | 1.1% | 0.01 | 10 | \$76 | 13% | 1.0 |
| FE-Met Ed | Adding window shade screen | No shade screen | Grocery | Space Heating | New | building | 16,154 | 1.1% | 0.01 | 10 | \$76 | 13% | 1.0 |
| FE-Met Ed | Automated control system | Manual Controls | Grocery | Space Heating | Existing | building | 16,154 | 17% | 0.2 | 15 | \$17,684 | 51% | 0.1 |
| FE-Met Ed | Automated control system | Manual Controls | Grocery | Space Heating | New | building | 16,154 | 17% | 0.2 | 15 | \$17,684 | 94% | 0.1 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Grocery | Space Heating | Existing | building | 16,154 | 9.8% | 0.10 | 15 | \$33,930 | 71% | 0.0 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Grocery | Space Heating | New | building | 16,154 | 3.3% | 0.03 | 15 | \$32,251 | 94% | 0.0 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Grocery | Space Heating | Existing | building | 16,154 | 1.4% | 0.04 | 15 | \$128 | 20% | 1.2 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Grocery | Space Heating | New | building | 16,154 | 1.4% | 0.04 | 15 | \$128 | 10% | 1.2 |
| FE-Met Ed | Efficient Unit Heating System | Existing Unit Heaters in PA | Grocery | Space Heating | Early | heater | 41,907 | 23% | 0.07 | 15 | \$3,289 | 83% | 1.5 |
| FE-Met Ed | Efficient Unit Heating System | Std. Unit Heater | Grocery | Space Heating | New | heater | 37,192 | 13% | 0.04 | 15 | \$1,991 | 83% | 1.3 |
| FE-Met Ed | Efficient Unit Heating System | Std. Unit Heater | Grocery | Space Heating | ROB | heater | 37,192 | 13% | 0.04 | 15 | \$1,991 | 83% | 1.3 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Grocery | Space Heating | Existing | building | 16,154 | 7.1% | 0.07 | 15 | \$71,654 | 25% | 0.0 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Grocery | Space Heating | New | building | 16,154 | 7.1% | 0.07 | 15 | \$71,654 | 35% | 0.0 |
| FE-Met Ed | Hi Eff HVAC System Design | No HVAC Design | Grocery | Space Heating | New | building | 16,154 | 9.3% | 0.09 | 10 | \$928,740 | 51% | 0.0 |
| FE-Met Ed | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Grocery | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 1.1 |
| FE-Met Ed | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Grocery | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 1.1 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Grocery | Space Heating | Existing | building | 16,154 | 1.1% | 0.01 | 10 | \$7,735 | 81% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|--|--|---------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Grocery | Space Heating | New | building | 16,154 | 1.1% | 0.01 | 10 | \$7,735 | 81% | 0.0 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Grocery | Space Heating | Existing | building | 16,154 | 3.6% | 0.04 | 11 | \$286 | 49% | 0.9 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Grocery | Space Heating | New | building | 16,154 | 3.1% | 0.03 | 11 | \$146 | 49% | 1.5 |
| FE-Met Ed | Re-Commissioning (Existing Construction) | No Re-Commissioning | Grocery | Space Heating | Existing | building | 16,154 | 16% | 0.2 | 5 | \$19,254 | 86% | 0.0 |
| FE-Met Ed | VFD on Cooling Tower Fan | Motor w/out VFD | Grocery | Space Heating | Early | motor | 18,724 | 70% | 3.4 | 15 | \$2,843 | 88% | 3.6 |
| FE-Met Ed | VFD on Cooling Tower Fan | Motor w/out VFD | Grocery | Space Heating | New | motor | 18,373 | 72% | 3.3 | 15 | \$2,843 | 88% | 3.6 |
| FE-Met Ed | VFD on Cooling Tower Fan | Motor w/out VFD | Grocery | Space Heating | ROB | motor | 18,373 | 72% | 3.3 | 15 | \$2,843 | 88% | 3.6 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Grocery | Space Heating | Existing | building | 16,154 | 19% | 0.2 | 15 | \$7,224 | 26% | 0.3 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Grocery | Space Heating | New | building | 16,154 | 0.5% | 0.01 | 15 | \$5,541 | 94% | 0.0 |
| FE-Met Ed | Green LED Traffic Light | Green Incandescent Traffic Light | Grocery | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 0% | 1.3 |
| FE-Met Ed | Green LED Traffic Light | Green Incandescent Traffic Light | Grocery | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.2 |
| FE-Met Ed | Green LED Traffic Light | Green Incandescent Traffic Light | Grocery | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.2 |
| FE-Met Ed | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Grocery | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 0% | 3.1 |
| FE-Met Ed | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Grocery | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-Met Ed | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Grocery | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-Met Ed | Induction Street Lighting | One 100W HPS Street Light Fixture | Grocery | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 0% | 0.3 |
| FE-Met Ed | Induction Street Lighting | One 100W HPS Street Light Fixture | Grocery | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.8 |
| FE-Met Ed | Induction Street Lighting | One 100W HPS Street Light Fixture | Grocery | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.8 |
| FE-Met Ed | LED Street Lighting | One 100W HPS Street Light | Grocery | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 0% | 0.2 |
| FE-Met Ed | LED Street Lighting | One 100W HPS Street Light | Grocery | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-Met Ed | LED Street Lighting | One 100W HPS Street Light | Grocery | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-Met Ed | Red LED Traffic Light | One Red Incandescent Traffic Light | Grocery | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 0% | 1.7 |
| FE-Met Ed | Red LED Traffic Light | One Red Incandescent Traffic Light | Grocery | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| FE-Met Ed | Red LED Traffic Light | One Red Incandescent Traffic Light | Grocery | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| FE-Met Ed | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Grocery | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 0% | 0.1 |
| FE-Met Ed | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Grocery | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-Met Ed | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Grocery | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-Met Ed | Demand controlled Circulating Systems | Constant circulation system | Grocery | Water Heating | Existing | building | 1,421 | 20% | 0.2 | 15 | \$258 | 59% | 1.4 |
| FE-Met Ed | Demand controlled Circulating Systems | Constant circulation system | Grocery | Water Heating | New | building | 1,421 | 20% | 0.2 | 15 | \$258 | 59% | 1.4 |
| FE-Met Ed | Drainwater Heat Recovery Water Heater | No heat recovery | Grocery | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 2.0 |
| FE-Met Ed | Drainwater Heat Recovery Water Heater | No heat recovery | Grocery | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 2.0 |
| FE-Met Ed | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Grocery | Water Heating | Existing | building | 1,421 | 5.9% | 0.06 | 12 | \$28 | 85% | 3.1 |
| FE-Met Ed | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Grocery | Water Heating | New | building | 1,421 | 5.9% | 0.06 | 12 | \$8.0 | 85% | 10.8 |
| FE-Met Ed | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Grocery | Water Heating | Early | water heater | 86,559 | 66% | 10.1 | 10 | \$3,562 | 68% | 8.3 |
| FE-Met Ed | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Grocery | Water Heating | Early | water heater | 86,559 | 66% | 10.1 | 10 | \$3,562 | 68% | 8.3 |
| FE-Met Ed | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Grocery | Water Heating | New | water heater | 86,559 | 66% | 10.1 | 10 | \$3,562 | 68% | 8.3 |
| FE-Met Ed | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Grocery | Water Heating | New | water heater | 86,559 | 66% | 10.1 | 10 | \$3,562 | 68% | 8.3 |
| FE-Met Ed | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Grocery | Water Heating | ROB | water heater | 84,155 | 65% | 9.7 | 10 | \$3,562 | 68% | 8.0 |
| FE-Met Ed | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Grocery | Water Heating | ROB | water heater | 84,155 | 65% | 9.7 | 10 | \$3,562 | 68% | 8.0 |
| FE-Met Ed | Heat Recovery Unit | Base Water Heating | Grocery | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.7 |
| FE-Met Ed | Heat Recovery Unit | Base Water Heating | Grocery | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.7 |
| FE-Met Ed | Heat Trap | No Heat Trap | Grocery | Water Heating | Existing | building | 1,421 | 22% | 0.2 | 11 | \$9.7 | 50% | 31.5 |
| FE-Met Ed | Heat Trap | No Heat Trap | Grocery | Water Heating | New | building | 1,421 | 22% | 0.2 | 11 | \$1.4 | 50% | 211.3 |
| FE-Met Ed | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Grocery | Water Heating | Early | water heater | 86,559 | 5.9% | 0.9 | 15 | \$921 | 79% | 4.1 |
| FE-Met Ed | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Grocery | Water Heating | Early | water heater | 86,559 | 5.9% | 0.9 | 15 | \$921 | 79% | 4.1 |
| FE-Met Ed | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Grocery | Water Heating | New | water heater | 84,155 | 3.2% | 0.5 | 15 | \$921 | 79% | 2.2 |
| FE-Met Ed | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Grocery | Water Heating | New | water heater | 84,155 | 3.2% | 0.5 | 15 | \$921 | 79% | 2.2 |
| FE-Met Ed | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Grocery | Water Heating | ROB | water heater | 84,155 | 3.2% | 0.5 | 15 | \$921 | 79% | 2.2 |
| FE-Met Ed | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Grocery | Water Heating | ROB | water heater | 84,155 | 3.2% | 0.5 | 15 | \$921 | 79% | 2.2 |
| FE-Met Ed | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Grocery | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$466 | 81% | 41.0 |
| FE-Met Ed | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Grocery | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 21.4 |
| FE-Met Ed | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Grocery | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 21.4 |
| FE-Met Ed | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Grocery | Water Heating | Existing | building | 1,421 | 4.3% | 0.04 | 13 | \$9.2 | 68% | 7.3 |
| FE-Met Ed | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Grocery | Water Heating | New | building | 1,421 | 4.3% | 0.04 | 13 | \$9.2 | 0% | 7.3 |
| FE-Met Ed | Hot Water Circulation Pump Time-Clock | Constant circulation system | Grocery | Water Heating | Existing | building | 1,421 | 5.3% | 0.05 | 10 | \$5.7 | 72% | 11.8 |
| FE-Met Ed | Hot Water Circulation Pump Time-Clock | Constant circulation system | Grocery | Water Heating | New | building | 1,421 | 5.3% | 0.05 | 10 | \$5.7 | 72% | 11.8 |
| FE-Met Ed | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Grocery | Water Heating | Existing | building | 1,308 | 0.1% | 0.00 | 7 | \$22 | 78% | 0.0 |
| FE-Met Ed | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Grocery | Water Heating | New | building | 1,308 | 0.1% | 0.00 | 7 | \$0.5 | 78% | 2.0 |
| FE-Met Ed | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Grocery | Water Heating | Existing | building | 1,421 | 13% | 0.1 | 5 | \$300 | 20% | 0.3 |
| FE-Met Ed | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Grocery | Water Heating | New | building | 1,421 | 8.9% | 0.09 | 5 | \$194 | 20% | 0.3 |
| FE-Met Ed | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Grocery | Water Heating | Existing | building | 1,421 | 6.5% | 0.07 | 9 | \$25 | 2% | 3.1 |
| FE-Met Ed | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Grocery | Water Heating | New | building | 1,421 | 6.5% | 0.07 | 9 | \$6.0 | 2% | 12.7 |
| FE-Met Ed | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Grocery | Water Heating | Early | water heater | 86,559 | 52% | 3.7 | 15 | \$18,666 | 32% | 1.5 |
| FE-Met Ed | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Grocery | Water Heating | New | water heater | 84,155 | 51% | 3.5 | 15 | \$18,666 | 32% | 1.5 |
| FE-Met Ed | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Grocery | Water Heating | ROB | water heater | 84,155 | 51% | 3.5 | 15 | \$18,666 | 32% | 1.5 |
| FE-Met Ed | Ultrasonic Faucet Control | Manual Faucet Control | Grocery | Water Heating | Existing | building | 1,421 | 3.0% | 0.03 | 10 | \$246 | 77% | 0.2 |
| FE-Met Ed | Ultrasonic Faucet Control | Manual Faucet Control | Grocery | Water Heating | New | building | 1,421 | 3.1% | 0.03 | 10 | \$246 | 77% | 0.2 |
| FE-Met Ed | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Grocery | Water Heating | Existing | building | 1,421 | 2.2% | 0.02 | 4 | \$28 | 83% | 0.5 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|--|---|------------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Grocery | Water Heating | New | building | 1,421 | 2.3% | 0.02 | 4 | \$28 | 83% | 0.5 |
| FE-Met Ed | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Healthcare | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.2 |
| FE-Met Ed | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Healthcare | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.2 |
| FE-Met Ed | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Healthcare | Cooking | Early | steamer | 51 | 46% | 0.00 | 12 | \$5,053 | 81% | 0.0 |
| FE-Met Ed | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Healthcare | Cooking | New | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-Met Ed | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Healthcare | Cooking | ROB | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-Met Ed | Electric combination oven (Energy Star) | Standard Oven | Healthcare | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 3.1 |
| FE-Met Ed | Electric combination oven (Energy Star) | Standard Oven | Healthcare | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 3.1 |
| FE-Met Ed | Electric Convection Oven | Conventional convection oven w/ 65% efficiency | Healthcare | Cooking | Early | oven | 8,641 | 37% | 0.6 | 12 | \$4,119 | 81% | 0.5 |
| FE-Met Ed | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Healthcare | Cooking | New | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.8 |
| FE-Met Ed | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Healthcare | Cooking | ROB | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.8 |
| FE-Met Ed | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Healthcare | Cooking | Early | fryer | 6,105 | 23% | 0.3 | 12 | \$9,241 | 86% | 0.1 |
| FE-Met Ed | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Healthcare | Cooking | New | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.4 |
| FE-Met Ed | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Healthcare | Cooking | ROB | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.4 |
| FE-Met Ed | High Efficiency Griddle (ENERGY STAR) | Efficiency code minimum griddle (70% eff) | Healthcare | Cooking | Early | griddle | 11,317 | 65% | 1.4 | 12 | \$4,977 | 86% | 0.9 |
| FE-Met Ed | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Healthcare | Cooking | New | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.3 |
| FE-Met Ed | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Healthcare | Cooking | ROB | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.3 |
| FE-Met Ed | High Efficiency Induction Cooking | Standard Cooking | Healthcare | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-Met Ed | High Efficiency Induction Cooking | Standard Cooking | Healthcare | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-Met Ed | Solid-state temperature controls | No Solid State Controls | Healthcare | Cooking | Existing | building | 15,500 | 3.6% | 0.04 | 12 | \$69 | 34% | 4.0 |
| FE-Met Ed | Active chilled beam cooling | No Active Chilled beam cooling | Healthcare | Cooling Central | New | building | 10,134 | 5.3% | 0.05 | 15 | \$2,649 | 72% | 0.1 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Healthcare | Cooling Central | Existing | building | 10,668 | 7.0% | 0.07 | 6 | \$15,140 | 82% | 0.0 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Healthcare | Cooling Central | New | building | 10,668 | 7.0% | 0.07 | 6 | \$15,140 | 82% | 0.0 |
| FE-Met Ed | Adding window shade film | No shade film | Healthcare | Cooling Central | Existing | building | 10,668 | 1.3% | 0.4 | 10 | \$130 | 12% | 2.5 |
| FE-Met Ed | Adding window shade film | No shade film | Healthcare | Cooling Central | New | building | 10,668 | 1.3% | 0.4 | 10 | \$130 | 13% | 2.5 |
| FE-Met Ed | Adding window shade screen | No shade screen | Healthcare | Cooling Central | Existing | building | 10,668 | 1.0% | 0.01 | 10 | \$50 | 13% | 1.0 |
| FE-Met Ed | Adding window shade screen | No shade screen | Healthcare | Cooling Central | New | building | 10,668 | 1.1% | 0.01 | 10 | \$50 | 13% | 1.0 |
| FE-Met Ed | Automated control system | Manual Controls | Healthcare | Cooling Central | Existing | building | 10,668 | 17% | 0.2 | 15 | \$11,679 | 51% | 0.1 |
| FE-Met Ed | Automated control system | Manual Controls | Healthcare | Cooling Central | New | building | 10,668 | 17% | 0.2 | 15 | \$11,679 | 94% | 0.1 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Healthcare | Cooling Central | Existing | building | 10,668 | 1.0% | 0.01 | 15 | \$20,566 | 71% | 0.0 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Healthcare | Cooling Central | New | building | 10,668 | 0.3% | 0.00 | 15 | \$19,549 | 94% | 0.0 |
| FE-Met Ed | Chilled Water Reset, Optimizer System for Chiller(s) | No Chilled Water Reset | Healthcare | Cooling Central | Existing | building | 10,668 | 3.7% | 0.04 | 10 | \$49 | 69% | 3.8 |
| FE-Met Ed | Chiller Tune Up Diagnostics | No Chiller Tune Up | Healthcare | Cooling Central | Existing | building | 10,668 | 2.3% | 0.02 | 10 | \$11 | 59% | 10.6 |
| FE-Met Ed | Chiller Tuneup/Diagnostics | No tuneup | Healthcare | Cooling Central | Existing | building | 10,668 | 8.0% | 0.08 | 10 | \$27,240 | 59% | 0.0 |
| FE-Met Ed | Chiller Tuneup/Diagnostics | No tuneup | Healthcare | Cooling Central | New | building | 10,668 | 8.0% | 0.08 | 10 | \$27,240 | 59% | 0.0 |
| FE-Met Ed | Cooling Tower Optimization | No Cooling Tower Optimization | Healthcare | Cooling Central | Existing | building | 10,668 | 4.9% | 0.05 | 10 | \$49 | 73% | 5.0 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Healthcare | Cooling Central | Existing | building | 10,668 | 1.4% | 0.04 | 15 | \$85 | 20% | 1.4 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Healthcare | Cooling Central | New | building | 10,668 | 1.4% | 0.04 | 15 | \$85 | 10% | 1.4 |
| FE-Met Ed | Facility Commissioning | No Facility Commissioning | Healthcare | Cooling Central | New | building | 10,668 | 16% | 0.2 | 10 | \$68,025 | 89% | 0.0 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Healthcare | Cooling Central | Existing | building | 10,668 | 7.0% | 0.07 | 15 | \$47,320 | 25% | 0.0 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Healthcare | Cooling Central | New | building | 10,668 | 7.0% | 0.07 | 15 | \$47,320 | 35% | 0.0 |
| FE-Met Ed | Hi Eff HVAC System Design | No HVAC Design | Healthcare | Cooling Central | New | building | 10,668 | 8.6% | 0.09 | 10 | \$661,579 | 51% | 0.0 |
| FE-Met Ed | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | Early | ton | 9,209 | 24% | 0.8 | 15 | \$108,550 | 88% | 0.0 |
| FE-Met Ed | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | New | ton | 7,528 | 6.7% | 0.2 | 15 | \$12,927 | 88% | 0.0 |
| FE-Met Ed | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | ROB | ton | 7,528 | 6.7% | 0.2 | 15 | \$12,927 | 88% | 0.0 |
| FE-Met Ed | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | Early | ton | 13,760 | 23% | 1.1 | 15 | \$140,105 | 88% | 0.0 |
| FE-Met Ed | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | New | ton | 11,071 | 4.9% | 0.2 | 15 | \$9,336 | 88% | 0.1 |
| FE-Met Ed | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | ROB | ton | 11,071 | 4.9% | 0.2 | 15 | \$9,336 | 88% | 0.1 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | Early | ton | 112,645 | 26% | 10.1 | 15 | \$105,354 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | New | ton | 98,146 | 15% | 5.1 | 15 | \$30,530 | 88% | 0.4 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | ROB | ton | 98,146 | 15% | 5.1 | 15 | \$30,530 | 88% | 0.4 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | Early | ton | 168,712 | 23% | 13.4 | 15 | \$154,107 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | New | ton | 154,983 | 16% | 8.6 | 15 | \$27,646 | 88% | 0.8 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | ROB | ton | 168,712 | 23% | 13.4 | 15 | \$27,646 | 88% | 1.2 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | Early | ton | 280,198 | 23% | 22.0 | 15 | \$302,924 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | New | ton | 253,600 | 14% | 12.7 | 15 | \$115,432 | 88% | 0.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|--|--|------------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | ROB | ton | 280,198 | 23% | 22.0 | 15 | \$115,432 | 88% | 0.5 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | Early | ton | 336,238 | 23% | 26.4 | 15 | \$350,154 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | New | ton | 304,319 | 14% | 15.3 | 15 | \$120,406 | 88% | 0.3 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | ROB | ton | 336,238 | 23% | 26.4 | 15 | \$120,406 | 88% | 0.6 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | Early | ton | 74,530 | 29% | 7.6 | 15 | \$83,632 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | New | ton | 57,872 | 9.0% | 1.8 | 15 | \$40,211 | 88% | 0.1 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | ROB | ton | 74,530 | 29% | 7.6 | 15 | \$40,211 | 88% | 0.5 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | Early | ton | 128,061 | 35% | 15.5 | 15 | \$132,173 | 88% | 0.3 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | New | ton | 95,512 | 13% | 4.2 | 15 | \$39,556 | 88% | 0.3 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | ROB | ton | 95,512 | 13% | 4.2 | 15 | \$39,556 | 88% | 0.3 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | Early | ton | 213,808 | 39% | 29.1 | 15 | \$187,029 | 88% | 0.4 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | New | ton | 152,442 | 15% | 7.7 | 15 | \$33,554 | 88% | 0.6 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | ROB | ton | 213,808 | 39% | 29.1 | 15 | \$33,554 | 88% | 2.2 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | Early | ton | 37,413 | 30% | 3.8 | 15 | \$32,398 | 88% | 0.3 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | New | ton | 29,642 | 11% | 1.1 | 15 | \$7,188 | 88% | 0.4 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | ROB | ton | 37,413 | 30% | 3.8 | 15 | \$7,188 | 88% | 1.4 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Healthcare | Cooling Central | Existing | building | 10,668 | 2.1% | 0.02 | 10 | \$22,450 | 81% | 0.0 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Healthcare | Cooling Central | New | building | 10,668 | 2.1% | 0.02 | 10 | \$22,450 | 81% | 0.0 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Healthcare | Cooling Central | Existing | building | 10,668 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.4 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Healthcare | Cooling Central | New | building | 10,668 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.6 |
| FE-Met Ed | Re-Commissioning (Existing Construction) | No Re-Commissioning | Healthcare | Cooling Central | Existing | building | 10,668 | 16% | 0.2 | 5 | \$8,847 | 86% | 0.0 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Healthcare | Cooling Central | Existing | building | 10,668 | 2.6% | 0.03 | 15 | \$5,624 | 26% | 0.0 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Healthcare | Cooling Central | New | building | 10,668 | 0.1% | 0.00 | 15 | \$4,314 | 94% | 0.0 |
| FE-Met Ed | <65k BTU/hr 14 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Healthcare | Cooling Unitary | Early | ton | 2,189 | 16% | 0.2 | 15 | \$1,545 | 29% | 0.2 |
| FE-Met Ed | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Healthcare | Cooling Unitary | New | ton | 1,983 | 7.1% | 0.07 | 15 | \$339 | 29% | 0.4 |
| FE-Met Ed | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Healthcare | Cooling Unitary | ROB | ton | 1,983 | 7.1% | 0.07 | 15 | \$339 | 29% | 0.4 |
| FE-Met Ed | <65k BTU/hr 15 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Healthcare | Cooling Unitary | Early | ton | 2,189 | 22% | 0.2 | 15 | \$1,821 | 30% | 0.3 |
| FE-Met Ed | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Healthcare | Cooling Unitary | New | ton | 1,983 | 13% | 0.1 | 15 | \$714 | 30% | 0.4 |
| FE-Met Ed | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Healthcare | Cooling Unitary | ROB | ton | 1,983 | 13% | 0.1 | 15 | \$714 | 30% | 0.4 |
| FE-Met Ed | <65k BTU/hr 16 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Healthcare | Cooling Unitary | Early | ton | 2,189 | 26% | 0.3 | 15 | \$2,098 | 31% | 0.3 |
| FE-Met Ed | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Healthcare | Cooling Unitary | New | ton | 1,983 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.3 |
| FE-Met Ed | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Healthcare | Cooling Unitary | ROB | ton | 1,983 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.3 |
| FE-Met Ed | >760k min 10.2 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Healthcare | Cooling Unitary | Early | ton | 55,389 | 3.7% | 1.0 | 15 | \$68,066 | 56% | 0.0 |
| FE-Met Ed | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Healthcare | Cooling Unitary | New | ton | 56,099 | 4.9% | 1.3 | 15 | \$6,231 | 56% | 0.5 |
| FE-Met Ed | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Healthcare | Cooling Unitary | ROB | ton | 56,099 | 4.9% | 1.3 | 15 | \$6,231 | 56% | 0.5 |
| FE-Met Ed | 135-240k min 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Healthcare | Cooling Unitary | Early | ton | 13,629 | 18% | 1.2 | 15 | \$18,135 | 79% | 0.1 |
| FE-Met Ed | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Healthcare | Cooling Unitary | New | ton | 12,397 | 10.0% | 0.6 | 15 | \$1,948 | 79% | 0.7 |
| FE-Met Ed | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Healthcare | Cooling Unitary | ROB | ton | 12,397 | 10.0% | 0.6 | 15 | \$1,948 | 79% | 0.7 |
| FE-Met Ed | 240k-760k min 11 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Healthcare | Cooling Unitary | Early | ton | 36,440 | 9.0% | 1.6 | 15 | \$44,809 | 66% | 0.1 |
| FE-Met Ed | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Healthcare | Cooling Unitary | New | ton | 36,531 | 9.3% | 1.6 | 15 | \$4,796 | 66% | 0.7 |
| FE-Met Ed | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Healthcare | Cooling Unitary | ROB | ton | 36,531 | 9.3% | 1.6 | 15 | \$4,796 | 66% | 0.7 |
| FE-Met Ed | 65k-135k BTU/hr 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Healthcare | Cooling Unitary | Early | ton | 8,034 | 17% | 0.7 | 15 | \$10,946 | 86% | 0.1 |
| FE-Met Ed | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Healthcare | Cooling Unitary | New | ton | 7,160 | 6.7% | 0.2 | 15 | \$1,392 | 86% | 0.4 |
| FE-Met Ed | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Healthcare | Cooling Unitary | ROB | ton | 7,160 | 6.7% | 0.2 | 15 | \$1,392 | 86% | 0.4 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Healthcare | Cooling Unitary | Existing | building | 173,206 | 7.0% | 0.07 | 6 | \$15,140 | 82% | 0.2 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Healthcare | Cooling Unitary | New | building | 173,206 | 7.0% | 0.07 | 6 | \$15,140 | 82% | 0.2 |
| FE-Met Ed | Adding window shade film | No shade film | Healthcare | Cooling Unitary | Existing | building | 173,206 | 1.3% | 0.4 | 10 | \$2,108 | 12% | 0.5 |
| FE-Met Ed | Adding window shade film | No shade film | Healthcare | Cooling Unitary | New | building | 173,206 | 1.3% | 0.4 | 10 | \$2,108 | 13% | 0.5 |
| FE-Met Ed | Adding window shade screen | No shade screen | Healthcare | Cooling Unitary | Existing | building | 173,206 | 1.1% | 0.01 | 10 | \$815 | 12% | 0.9 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|---|------------|-----------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Adding window shade screen | No shade screen | Healthcare | Cooling Unitary | New | building | 173,206 | 1.1% | 0.01 | 10 | \$815 | 13% | 0.9 |
| FE-Met Ed | Automated control system | Manual Controls | Healthcare | Cooling Unitary | Existing | building | 173,206 | 17% | 0.2 | 15 | \$189,620 | 51% | 0.1 |
| FE-Met Ed | Automated control system | Manual Controls | Healthcare | Cooling Unitary | New | building | 173,206 | 17% | 0.2 | 15 | \$189,620 | 94% | 0.1 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Healthcare | Cooling Unitary | Existing | building | 173,206 | 1.1% | 0.01 | 15 | \$20,566 | 71% | 0.1 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Healthcare | Cooling Unitary | New | building | 173,206 | 0.3% | 0.00 | 15 | \$19,549 | 94% | 0.0 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Healthcare | Cooling Unitary | Existing | building | 173,206 | 1.4% | 0.04 | 15 | \$1,376 | 20% | 1.0 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Healthcare | Cooling Unitary | New | building | 173,206 | 1.4% | 0.04 | 15 | \$1,376 | 10% | 1.0 |
| FE-Met Ed | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Healthcare | Cooling Unitary | Existing | building | 95,263 | 13% | 0.1 | 1 | \$913 | 73% | 0.7 |
| FE-Met Ed | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Healthcare | Cooling Unitary | New | building | 95,263 | 13% | 0.1 | 1 | \$913 | 73% | 0.7 |
| FE-Met Ed | ECM Motors for split systems | Std Shaded Pole Motor | Healthcare | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 3.0 |
| FE-Met Ed | ECM Motors for split systems | Std Shaded Pole Motor | Healthcare | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 3.0 |
| FE-Met Ed | Facility Commissioning | No Facility Commissioning | Healthcare | Cooling Unitary | New | building | 173,206 | 16% | 0.2 | 10 | \$5,137 | 89% | 2.1 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Healthcare | Cooling Unitary | Existing | building | 173,206 | 7.1% | 0.07 | 15 | \$768,305 | 25% | 0.0 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Healthcare | Cooling Unitary | New | building | 173,206 | 7.1% | 0.07 | 15 | \$768,305 | 35% | 0.0 |
| FE-Met Ed | Hi Eff HVAC System Design | No HVAC Design | Healthcare | Cooling Unitary | New | building | 173,206 | 8.6% | 0.09 | 10 | \$60,293 | 51% | 0.1 |
| FE-Met Ed | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Healthcare | Cooling Unitary | Existing | building | 173,206 | 5.0% | 0.05 | 5 | \$225 | 59% | 8.6 |
| FE-Met Ed | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Healthcare | Cooling Unitary | Existing | building | 173,206 | 0.1% | 0.04 | 5 | \$225 | 51% | 0.2 |
| FE-Met Ed | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Healthcare | Cooling Unitary | New | building | 173,206 | 0.1% | 0.04 | 5 | \$135 | 51% | 0.3 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Healthcare | Cooling Unitary | Existing | building | 173,206 | 2.1% | 0.02 | 10 | \$24,127 | 86% | 0.1 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Healthcare | Cooling Unitary | New | building | 173,206 | 2.1% | 0.02 | 10 | \$24,127 | 86% | 0.1 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) | Healthcare | Cooling Unitary | Existing | building | 173,206 | 2.0% | 0.02 | 11 | \$286 | 49% | 5.3 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Healthcare | Cooling Unitary | New | building | 173,206 | 1.7% | 0.02 | 11 | \$146 | 49% | 8.8 |
| FE-Met Ed | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Healthcare | Cooling Unitary | Early | unit | 779 | 19% | 0.07 | 15 | \$849 | 85% | 0.2 |
| FE-Met Ed | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Healthcare | Cooling Unitary | New | unit | 787 | 20% | 0.07 | 15 | \$356 | 85% | 0.4 |
| FE-Met Ed | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Healthcare | Cooling Unitary | ROB | unit | 787 | 20% | 0.07 | 15 | \$356 | 85% | 0.4 |
| FE-Met Ed | Re-Commissioning (Existing Construction) | No Re-Commissioning | Healthcare | Cooling Unitary | Existing | building | 173,206 | 16% | 0.2 | 5 | \$8,847 | 86% | 0.7 |
| FE-Met Ed | Room AC (w/ louvered sides) | Exisiting efficiency Room AC in Pennsylvania (2000 Federal Standards) | Healthcare | Cooling Unitary | Early | ton | 1,088 | 13% | 0.05 | 9 | \$348 | 82% | 0.2 |
| FE-Met Ed | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Healthcare | Cooling Unitary | New | ton | 986 | 4.5% | 0.02 | 9 | \$17 | 82% | 1.5 |
| FE-Met Ed | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Healthcare | Cooling Unitary | ROB | ton | 986 | 4.5% | 0.02 | 9 | \$17 | 82% | 1.5 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Healthcare | Cooling Unitary | Existing | building | 173,206 | 2.6% | 0.03 | 15 | \$5,624 | 26% | 0.5 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Healthcare | Cooling Unitary | New | building | 173,206 | 0.1% | 0.00 | 15 | \$4,314 | 94% | 0.0 |
| FE-Met Ed | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Healthcare | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 1.2 |
| FE-Met Ed | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Healthcare | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.6 |
| FE-Met Ed | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Healthcare | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.6 |
| FE-Met Ed | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Healthcare | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 0% | 0.2 |
| FE-Met Ed | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Healthcare | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-Met Ed | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Healthcare | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-Met Ed | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Healthcare | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 75% | 0.3 |
| FE-Met Ed | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Healthcare | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 75% | 0.2 |
| FE-Met Ed | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Healthcare | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.9 |
| FE-Met Ed | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Healthcare | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.2 |
| FE-Met Ed | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Healthcare | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.9 |
| FE-Met Ed | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Healthcare | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.2 |
| FE-Met Ed | Photocell Controls (Outdoor) | Lighting w/ No Controls | Healthcare | Ext. Lighting | Existing | building | 2,684 | 28% | 0.3 | 8 | \$5,444 | 88% | 0.1 |
| FE-Met Ed | Photocell Controls (Outdoor) | Lighting w/ No Controls | Healthcare | Ext. Lighting | New | building | 2,684 | 28% | 0.3 | 8 | \$5,444 | 0% | 0.1 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Healthcare | Heat Pump | Existing | building | 20,220 | 6.9% | 0.07 | 6 | \$15,140 | 82% | 0.0 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Healthcare | Heat Pump | New | building | 20,220 | 6.9% | 0.07 | 6 | \$15,140 | 82% | 0.0 |
| FE-Met Ed | Adding window shade film | No shade film | Healthcare | Heat Pump | Existing | building | 20,220 | 3.9% | 0.4 | 10 | \$246 | 12% | 2.3 |
| FE-Met Ed | Adding window shade film | No shade film | Healthcare | Heat Pump | New | building | 20,220 | 3.9% | 0.4 | 10 | \$246 | 12% | 2.3 |
| FE-Met Ed | Adding window shade screen | No shade screen | Healthcare | Heat Pump | Existing | building | 20,220 | 0.3% | 0.01 | 10 | \$32 | 12% | 1.0 |
| FE-Met Ed | Adding window shade screen | No shade screen | Healthcare | Heat Pump | New | building | 20,220 | 0.3% | 0.01 | 10 | \$32 | 12% | 1.0 |
| FE-Met Ed | Automated control system | Manual Controls | Healthcare | Heat Pump | Existing | building | 20,220 | 17% | 0.2 | 15 | \$22,136 | 51% | 0.1 |
| FE-Met Ed | Automated control system | Manual Controls | Healthcare | Heat Pump | New | building | 20,220 | 17% | 0.2 | 15 | \$22,136 | 94% | 0.1 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Healthcare | Heat Pump | Existing | building | 20,220 | 1.0% | 0.01 | 15 | \$20,566 | 71% | 0.0 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Healthcare | Heat Pump | New | building | 20,220 | 0.3% | 0.00 | 15 | \$19,549 | 94% | 0.0 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Healthcare | Heat Pump | Existing | building | 20,220 | 4.0% | 0.04 | 15 | \$161 | 12% | 2.9 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Healthcare | Heat Pump | New | building | 20,220 | 4.0% | 0.04 | 15 | \$161 | 6% | 2.9 |
| FE-Met Ed | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Healthcare | Heat Pump | Early | heat pump | 1,774 | 13% | 0.02 | 15 | \$4,070 | 83% | 0.0 |
| FE-Met Ed | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Healthcare | Heat Pump | New | heat pump | 1,679 | 7.7% | 0.01 | 15 | \$1,097 | 83% | 0.1 |
| FE-Met Ed | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Healthcare | Heat Pump | ROB | heat pump | 1,679 | 7.7% | 0.01 | 15 | \$1,097 | 83% | 0.1 |
| FE-Met Ed | Facility Commissioning | No Facility Commissioning | Healthcare | Heat Pump | New | building | 20,220 | 16% | 0.2 | 10 | \$68,025 | 89% | 0.0 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Healthcare | Heat Pump | Existing | building | 20,220 | 7.0% | 0.07 | 15 | \$89,690 | 25% | 0.0 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Healthcare | Heat Pump | New | building | 20,220 | 7.0% | 0.07 | 15 | \$89,690 | 35% | 0.0 |
| FE-Met Ed | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Healthcare | Heat Pump | Early | heat pump | 18,527 | 18% | 0.3 | 15 | \$91,117 | 19% | 0.0 |
| FE-Met Ed | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Healthcare | Heat Pump | New | heat pump | 17,741 | 14% | 0.2 | 15 | \$33,927 | 19% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|--|--|------------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Healthcare | Heat Pump | ROB | heat pump | 17,741 | 14% | 0.2 | 15 | \$33,927 | 19% | 0.0 |
| FE-Met Ed | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Healthcare | Heat Pump | Early | heat pump | 18,527 | 18% | 0.3 | 15 | \$58,356 | 19% | 0.0 |
| FE-Met Ed | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Healthcare | Heat Pump | New | heat pump | 17,741 | 14% | 0.2 | 15 | \$1,167 | 19% | 1.3 |
| FE-Met Ed | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Healthcare | Heat Pump | ROB | heat pump | 17,741 | 14% | 0.2 | 15 | \$1,167 | 19% | 1.3 |
| FE-Met Ed | Hi Eff HVAC System Design | No HVAC Design | Healthcare | Heat Pump | New | building | 20,220 | 8.6% | 0.09 | 10 | \$661,579 | 51% | 0.0 |
| FE-Met Ed | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Healthcare | Heat Pump | Early | heat pump | 4,731 | 17% | 0.07 | 12 | \$4,298 | 81% | 0.1 |
| FE-Met Ed | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Healthcare | Heat Pump | New | heat pump | 4,477 | 13% | 0.05 | 12 | \$852 | 81% | 0.3 |
| FE-Met Ed | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Healthcare | Heat Pump | ROB | heat pump | 4,477 | 13% | 0.05 | 12 | \$852 | 81% | 0.3 |
| FE-Met Ed | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Healthcare | Heat Pump | Existing | building | 20,220 | 5.0% | 0.09 | 5 | \$90 | 51% | 2.7 |
| FE-Met Ed | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Healthcare | Heat Pump | New | building | 20,220 | 5.0% | 0.09 | 5 | \$90 | 51% | 2.7 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Healthcare | Heat Pump | Existing | building | 20,220 | 2.1% | 0.02 | 10 | \$21,481 | 81% | 0.0 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Healthcare | Heat Pump | New | building | 20,220 | 2.1% | 0.02 | 10 | \$21,481 | 81% | 0.0 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Healthcare | Heat Pump | Existing | building | 20,220 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.8 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Healthcare | Heat Pump | New | building | 20,220 | 2.1% | 0.02 | 11 | \$146 | 49% | 1.3 |
| FE-Met Ed | Re-Commissioning (Existing Construction) | No Re-Commissioning | Healthcare | Heat Pump | Existing | building | 20,220 | 16% | 0.2 | 5 | \$8,847 | 86% | 0.1 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Healthcare | Heat Pump | Existing | building | 20,220 | 2.6% | 0.03 | 15 | \$5,624 | 26% | 0.1 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Healthcare | Heat Pump | New | building | 20,220 | 0.1% | 0.00 | 15 | \$4,314 | 94% | 0.0 |
| FE-Met Ed | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Healthcare | Heat Pump | Early | heat pump | 7,468 | 32% | 0.2 | 15 | \$35,347 | 28% | 0.0 |
| FE-Met Ed | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Healthcare | Heat Pump | New | heat pump | 7,022 | 28% | 0.2 | 15 | \$15,739 | 28% | 0.1 |
| FE-Met Ed | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Healthcare | Heat Pump | ROB | heat pump | 7,022 | 28% | 0.2 | 15 | \$15,739 | 28% | 0.1 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | Early | Fixture | 620 | 9.6% | 0.01 | 13 | \$850 | 39% | 0.0 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Healthcare | High Bay Lighting | Early | Fixture | 619 | 9.5% | 0.01 | 13 | \$850 | 28% | 0.0 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Healthcare | High Bay Lighting | Early | Fixture | 956 | 41% | 0.08 | 13 | \$850 | 36% | 0.3 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | New | Fixture | 471 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Healthcare | High Bay Lighting | New | Fixture | 438 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Healthcare | High Bay Lighting | New | Fixture | 726 | 41% | 0.06 | 13 | \$397 | 36% | 0.5 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 620 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 577 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 956 | 41% | 0.08 | 13 | \$397 | 36% | 0.7 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | Early | Fixture | 1,203 | 19% | 0.05 | 13 | \$851 | 38% | 0.2 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Healthcare | High Bay Lighting | Early | Fixture | 1,218 | 20% | 0.05 | 13 | \$851 | 38% | 0.2 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | Early | Fixture | 3,543 | 73% | 0.5 | 13 | \$851 | 38% | 2.0 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | New | Fixture | 914 | 19% | 0.04 | 13 | \$372 | 38% | 0.3 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | New | Fixture | 2,693 | 73% | 0.4 | 13 | \$383 | 38% | 3.4 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 1,203 | 19% | 0.05 | 13 | \$372 | 38% | 0.4 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 3,543 | 73% | 0.5 | 13 | \$383 | 38% | 4.5 |
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | Early | Fixture | 1,203 | 25% | 0.06 | 13 | \$554 | 29% | 0.4 |
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Healthcare | High Bay Lighting | Early | Fixture | 1,181 | 23% | 0.06 | 13 | \$554 | 28% | 0.3 |
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | Early | Fixture | 3,543 | 74% | 0.6 | 13 | \$554 | 36% | 3.2 |
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | New | Fixture | 914 | 25% | 0.05 | 13 | \$75 | 29% | 2.0 |
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | New | Fixture | 2,693 | 74% | 0.4 | 13 | \$86 | 36% | 15.7 |
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 1,203 | 25% | 0.06 | 13 | \$75 | 29% | 2.7 |
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 3,543 | 74% | 0.6 | 13 | \$86 | 36% | 20.7 |
| FE-Met Ed | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Healthcare | High Bay Lighting | Early | Fixture | 314 | 0.2% | 0.00 | 13 | \$835 | 38% | 0.0 |
| FE-Met Ed | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Healthcare | High Bay Lighting | Early | Fixture | 676 | 54% | 0.08 | 13 | \$835 | 38% | 0.3 |
| FE-Met Ed | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Healthcare | High Bay Lighting | New | Fixture | 514 | 54% | 0.06 | 13 | \$382 | 38% | 0.5 |
| FE-Met Ed | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 676 | 54% | 0.08 | 13 | \$382 | 38% | 0.6 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | Early | Fixture | 1,533 | 18% | 0.06 | 13 | \$487 | 25% | 0.4 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Healthcare | High Bay Lighting | Early | Fixture | 1,603 | 22% | 0.07 | 13 | \$487 | 28% | 0.5 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | Early | Fixture | 3,543 | 65% | 0.5 | 13 | \$487 | 36% | 3.2 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | New | Fixture | 1,165 | 18% | 0.05 | 13 | \$16 | 25% | 8.8 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | New | Fixture | 2,693 | 65% | 0.4 | 13 | \$18 | 36% | 63.7 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 1,533 | 18% | 0.06 | 13 | \$16 | 25% | 11.6 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 3,543 | 65% | 0.5 | 13 | \$18 | 36% | 83.8 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | Early | Fixture | 1,533 | 1.5% | 0.00 | 13 | \$557 | 19% | 0.0 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Healthcare | High Bay Lighting | Early | Fixture | 1,578 | 4.3% | 0.01 | 13 | \$557 | 19% | 0.1 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | Early | Fixture | 3,543 | 57% | 0.4 | 13 | \$557 | 19% | 2.5 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | New | Fixture | 1,165 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | New | Fixture | 2,693 | 57% | 0.3 | 13 | \$88 | 19% | 11.8 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 1,533 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.2 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 3,543 | 57% | 0.4 | 13 | \$88 | 19% | 15.5 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Healthcare | High Bay Lighting | Early | Fixture | 651 | 29% | 0.03 | 13 | \$492 | 71% | 0.2 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | Early | Fixture | 544 | 15% | 0.01 | 13 | \$492 | 95% | 0.1 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Healthcare | High Bay Lighting | Early | Fixture | 808 | 43% | 0.05 | 13 | \$492 | 95% | 0.4 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Healthcare | High Bay Lighting | Early | Fixture | 749 | 38% | 0.04 | 13 | \$492 | 95% | 0.4 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | New | Fixture | 414 | 15% | 0.01 | 13 | \$25 | 95% | 1.5 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Healthcare | High Bay Lighting | New | Fixture | 614 | 43% | 0.04 | 13 | \$51 | 95% | 3.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|---|------------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 544 | 15% | 0.01 | 13 | \$25 | 95% | 2.0 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 808 | 43% | 0.05 | 13 | \$51 | 95% | 4.2 |
| FE-Met Ed | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Healthcare | High Bay Lighting | Early | lamp | 107 | 16% | 0.00 | 10 | \$7.7 | 99% | 1.3 |
| FE-Met Ed | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Healthcare | High Bay Lighting | New | lamp | 64 | 13% | 0.00 | 10 | \$1.6 | 91% | 2.8 |
| FE-Met Ed | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Healthcare | High Bay Lighting | ROB | lamp | 103 | 13% | 0.00 | 10 | \$1.6 | 91% | 4.5 |
| FE-Met Ed | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | Early | Fixture | 3,626 | 23% | 0.2 | 13 | \$613 | 5% | 0.9 |
| FE-Met Ed | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Healthcare | High Bay Lighting | Early | Fixture | 2,849 | 1.6% | 0.01 | 13 | \$613 | 28% | 0.1 |
| FE-Met Ed | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | Early | Fixture | 7,087 | 60% | 0.9 | 13 | \$613 | 18% | 4.7 |
| FE-Met Ed | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | New | Fixture | 2,756 | 23% | 0.1 | 13 | \$96 | 5% | 4.4 |
| FE-Met Ed | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 3,626 | 23% | 0.2 | 13 | \$96 | 5% | 5.8 |
| FE-Met Ed | Auto Off Time Switch | Lighting w/ No Controls | Healthcare | High Bay Lighting | Existing | building | 6,190 | 24% | 0.2 | 8 | \$1,106 | 13% | 0.6 |
| FE-Met Ed | Auto Off Time Switch | Lighting w/ No Controls | Healthcare | High Bay Lighting | New | building | 6,190 | 6.9% | 0.07 | 8 | \$1,106 | 0% | 0.2 |
| FE-Met Ed | Central Lighting Control System | Lighting w/ No Controls | Healthcare | High Bay Lighting | Existing | building | 6,190 | 38% | 0.4 | 8 | \$1,106 | 13% | 0.9 |
| FE-Met Ed | Central Lighting Control System | Lighting w/ No Controls | Healthcare | High Bay Lighting | New | building | 6,190 | 14% | 0.1 | 8 | \$1,106 | 13% | 0.3 |
| FE-Met Ed | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Healthcare | High Bay Lighting | New | building | 6,190 | 10% | 0.1 | 15 | \$32,147 | 32% | 0.0 |
| FE-Met Ed | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Healthcare | High Bay Lighting | New | building | 6,190 | 15% | 0.2 | 15 | \$80,367 | 32% | 0.0 |
| FE-Met Ed | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Healthcare | High Bay Lighting | New | building | 6,190 | 30% | 0.3 | 15 | \$115,193 | 32% | 0.0 |
| FE-Met Ed | Indoor Daylight Sensors | Lighting w/ No Controls | Healthcare | High Bay Lighting | Existing | building | 6,190 | 28% | 0.3 | 8 | \$5,444 | 13% | 0.1 |
| FE-Met Ed | Indoor Daylight Sensors | Lighting w/ No Controls | Healthcare | High Bay Lighting | New | building | 6,190 | 4.0% | 0.04 | 8 | \$5,444 | 0% | 0.0 |
| FE-Met Ed | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | Early | Fixture | 3,626 | 92% | 0.7 | 13 | \$1,916 | 95% | 1.2 |
| FE-Met Ed | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | Early | Fixture | 7,087 | 96% | 1.4 | 13 | \$1,916 | 95% | 2.4 |
| FE-Met Ed | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | New | Fixture | 2,756 | 92% | 0.5 | 13 | \$1,468 | 95% | 1.2 |
| FE-Met Ed | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | New | Fixture | 5,386 | 96% | 1.1 | 13 | \$1,149 | 95% | 3.0 |
| FE-Met Ed | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 3,626 | 92% | 0.7 | 13 | \$1,468 | 95% | 1.5 |
| FE-Met Ed | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 7,087 | 96% | 1.4 | 13 | \$1,149 | 95% | 4.0 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | Early | Fixture | 1,203 | 67% | 0.2 | 13 | \$960 | 95% | 0.6 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Healthcare | High Bay Lighting | Early | Fixture | 3,543 | 89% | 0.7 | 13 | \$960 | 95% | 2.2 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Healthcare | High Bay Lighting | Early | Fixture | 972 | 59% | 0.1 | 13 | \$960 | 95% | 0.4 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | New | Fixture | 914 | 67% | 0.1 | 13 | \$480 | 95% | 0.9 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Healthcare | High Bay Lighting | New | Fixture | 2,693 | 89% | 0.5 | 13 | \$491 | 95% | 3.3 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Healthcare | High Bay Lighting | New | Fixture | 739 | 59% | 0.09 | 13 | \$406 | 95% | 0.7 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 1,203 | 67% | 0.2 | 13 | \$480 | 95% | 1.1 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 3,543 | 89% | 0.7 | 13 | \$491 | 95% | 4.3 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 972 | 59% | 0.1 | 13 | \$406 | 95% | 0.9 |
| FE-Met Ed | Occupancy Sensor | Lighting w/ No Controls | Healthcare | High Bay Lighting | Existing | building | 6,190 | 24% | 0.2 | 8 | \$1,666 | 11% | 0.4 |
| FE-Met Ed | Occupancy Sensor | Lighting w/ No Controls | Healthcare | High Bay Lighting | New | building | 6,190 | 6.9% | 0.07 | 8 | \$1,666 | 0% | 0.1 |
| FE-Met Ed | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Healthcare | High Bay Lighting | Existing | building | 6,190 | 28% | 0.3 | 8 | \$5,444 | 11% | 0.1 |
| FE-Met Ed | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Healthcare | High Bay Lighting | New | building | 6,190 | 4.0% | 0.04 | 8 | \$5,444 | 0% | 0.0 |
| FE-Met Ed | Time Clock Control | Lighting w/ No Controls | Healthcare | High Bay Lighting | Existing | building | 6,190 | 28% | 0.3 | 8 | \$1,106 | 13% | 0.7 |
| FE-Met Ed | Time Clock Control | Lighting w/ No Controls | Healthcare | High Bay Lighting | New | building | 6,190 | 4.0% | 0.04 | 8 | \$1,106 | 0% | 0.1 |
| FE-Met Ed | Auto Off Time Switch | Lighting w/ No Controls | Healthcare | Lin. Fluor. Lighting | Existing | building | 347,093 | 24% | 0.2 | 8 | \$1,106 | 13% | 24.9 |
| FE-Met Ed | Auto Off Time Switch | Lighting w/ No Controls | Healthcare | Lin. Fluor. Lighting | New | building | 347,093 | 7.0% | 0.07 | 8 | \$1,106 | 0% | 7.2 |
| FE-Met Ed | Central Lighting Control System | Lighting w/ No Controls | Healthcare | Lin. Fluor. Lighting | Existing | building | 347,093 | 38% | 0.4 | 8 | \$1,106 | 12% | 39.4 |
| FE-Met Ed | Central Lighting Control System | Lighting w/ No Controls | Healthcare | Lin. Fluor. Lighting | New | building | 347,093 | 14% | 0.1 | 8 | \$1,106 | 12% | 14.5 |
| FE-Met Ed | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Healthcare | Lin. Fluor. Lighting | New | building | 347,093 | 10% | 0.1 | 15 | \$32,147 | 32% | 0.6 |
| FE-Met Ed | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Healthcare | Lin. Fluor. Lighting | New | building | 347,093 | 15% | 0.2 | 15 | \$80,367 | 32% | 0.4 |
| FE-Met Ed | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Healthcare | Lin. Fluor. Lighting | New | building | 347,093 | 30% | 0.3 | 15 | \$115,193 | 32% | 0.5 |
| FE-Met Ed | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Healthcare | Lin. Fluor. Lighting | Early | Lamp | 215 | 38% | 0.02 | 10 | \$7.3 | 94% | 6.0 |
| FE-Met Ed | Indoor Daylight Sensors | Lighting w/ No Controls | Healthcare | Lin. Fluor. Lighting | Existing | building | 347,093 | 28% | 0.3 | 8 | \$5,444 | 13% | 5.9 |
| FE-Met Ed | Indoor Daylight Sensors | Lighting w/ No Controls | Healthcare | Lin. Fluor. Lighting | New | building | 347,093 | 4.1% | 0.04 | 8 | \$5,444 | 0% | 0.9 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | Early | Lamp | 77 | 19% | 0.00 | 15 | \$35 | 94% | 0.3 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 40W T12 Lamp, Magnetic Ballast | Healthcare | Lin. Fluor. Lighting | Early | Lamp | 169 | 63% | 0.02 | 15 | \$35 | 94% | 2.3 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | Early | Lamp | 95 | 34% | 0.01 | 15 | \$35 | 94% | 0.7 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | Early | Lamp | 92 | 32% | 0.01 | 15 | \$35 | 94% | 0.6 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | New | Lamp | 59 | 19% | 0.00 | 15 | \$28 | 94% | 0.3 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | New | Lamp | 70 | 32% | 0.00 | 15 | \$29 | 94% | 0.6 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | New | Lamp | 72 | 34% | 0.01 | 15 | \$22 | 94% | 0.9 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | New | Lamp | 70 | 32% | 0.00 | 15 | \$29 | 94% | 0.6 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | ROB | Lamp | 77 | 19% | 0.00 | 15 | \$28 | 94% | 0.4 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | ROB | Lamp | 92 | 32% | 0.01 | 15 | \$29 | 94% | 0.8 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | ROB | Lamp | 95 | 34% | 0.01 | 15 | \$22 | 94% | 1.2 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | ROB | Lamp | 92 | 32% | 0.01 | 15 | \$29 | 94% | 0.8 |
| FE-Met Ed | Occupancy Sensor | Lighting w/ No Controls | Healthcare | Lin. Fluor. Lighting | Existing | building | 347,093 | 24% | 0.2 | 8 | \$1,666 | 12% | 16.5 |
| FE-Met Ed | Occupancy Sensor | Lighting w/ No Controls | Healthcare | Lin. Fluor. Lighting | New | building | 347,093 | 7.0% | 0.07 | 8 | \$1,666 | 0% | 4.8 |
| FE-Met Ed | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Healthcare | Lin. Fluor. Lighting | Existing | building | 347,093 | 28% | 0.3 | 8 | \$5,444 | 11% | 5.9 |
| FE-Met Ed | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Healthcare | Lin. Fluor. Lighting | New | building | 347,093 | 4.1% | 0.04 | 8 | \$5,444 | 0% | 0.9 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 40W T12 w/ Magnetic Ballast | Healthcare | Lin. Fluor. Lighting | Early | Lamp | 215 | 54% | 0.02 | 10 | \$9.1 | 94% | 6.9 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | Early | Lamp | 138 | 28% | 0.01 | 10 | \$9.1 | 24% | 2.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|--|------------|---------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Escalator Motor Controller | Constant power control | Healthcare | Motors | New | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 67% | 6.3 |
| FE-Met Ed | Escalator Motor Controller | Constant power control | Healthcare | Motors | ROB | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 67% | 6.3 |
| FE-Met Ed | Fan Motor - correct sizing | Incorrect Fan Motor Sizing | Healthcare | Motors | ROB | measure | 106,370 | 2.9% | 0.4 | 15 | \$50 | 92% | 39.9 |
| FE-Met Ed | Variable Speed Drive Control, 15HP | Existing Motors w/out VSD Drive | Healthcare | Motors | Early | motor | 54,557 | 70% | 5.6 | 15 | \$731 | 86% | 36.6 |
| FE-Met Ed | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Healthcare | Motors | New | motor | 53,384 | 72% | 5.6 | 15 | \$731 | 86% | 36.6 |
| FE-Met Ed | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Healthcare | Motors | ROB | motor | 53,384 | 72% | 5.6 | 15 | \$731 | 86% | 36.6 |
| FE-Met Ed | Variable Speed Drive Control, 40HP | Existing Motors w/out VSD Drive | Healthcare | Motors | Early | motor | 142,356 | 71% | 14.8 | 15 | \$4,666 | 86% | 15.1 |
| FE-Met Ed | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Healthcare | Motors | New | motor | 140,692 | 72% | 14.8 | 15 | \$4,666 | 86% | 15.1 |
| FE-Met Ed | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Healthcare | Motors | ROB | motor | 140,692 | 72% | 14.8 | 15 | \$4,666 | 86% | 15.1 |
| FE-Met Ed | Variable Speed Drive Control, 5HP | Existing Motors w/out VFD Drive | Healthcare | Motors | Early | motor | 18,913 | 72% | 2.0 | 15 | \$2,243 | 86% | 4.2 |
| FE-Met Ed | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Healthcare | Motors | New | motor | 18,490 | 72% | 1.9 | 15 | \$2,243 | 86% | 4.1 |
| FE-Met Ed | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Healthcare | Motors | ROB | motor | 18,490 | 72% | 1.9 | 15 | \$2,243 | 86% | 4.1 |
| FE-Met Ed | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Healthcare | Motors | Early | motor | 141,406 | 0.8% | 0.1 | 15 | \$268 | 40% | 2.8 |
| FE-Met Ed | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Healthcare | Motors | New | motor | 141,406 | 0.8% | 0.1 | 15 | \$268 | 40% | 2.8 |
| FE-Met Ed | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Healthcare | Motors | ROB | motor | 141,406 | 0.8% | 0.1 | 15 | \$268 | 40% | 2.8 |
| FE-Met Ed | VFD on Chilled Water Pump | Motor w/out VFD Drive | Healthcare | Motors | Early | motor | 45,158 | 55% | 2.7 | 15 | \$2,903 | 86% | 5.6 |
| FE-Met Ed | VFD on Chilled Water Pump | Motor w/out VFD Drive | Healthcare | Motors | New | motor | 44,313 | 55% | 2.7 | 15 | \$2,843 | 86% | 5.6 |
| FE-Met Ed | VFD on Chilled Water Pump | Motor w/out VFD Drive | Healthcare | Motors | ROB | motor | 44,313 | 55% | 2.7 | 15 | \$2,843 | 86% | 5.6 |
| FE-Met Ed | VFD on Condenser Water Pump | Motor w/out VFD Drive | Healthcare | Motors | Early | motor | 38,955 | 32% | 3.2 | 15 | \$2,903 | 86% | 3.4 |
| FE-Met Ed | VFD on Condenser Water Pump | Motor w/out VFD Drive | Healthcare | Motors | New | motor | 38,226 | 33% | 3.1 | 15 | \$2,843 | 86% | 3.5 |
| FE-Met Ed | VFD on Condenser Water Pump | Motor w/out VFD Drive | Healthcare | Motors | ROB | motor | 38,226 | 33% | 3.1 | 15 | \$2,843 | 86% | 3.5 |
| FE-Met Ed | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Healthcare | Motors | Early | motor | 67,054 | 56% | 0.00 | 15 | \$2,903 | 86% | 7.0 |
| FE-Met Ed | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Healthcare | Motors | New | motor | 65,800 | 57% | 0.00 | 15 | \$2,843 | 86% | 7.1 |
| FE-Met Ed | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Healthcare | Motors | ROB | motor | 65,800 | 57% | 0.00 | 15 | \$2,843 | 86% | 7.2 |
| FE-Met Ed | VFD on HVAC Fan | Motor w/out VFD | Healthcare | Motors | Early | motor | 48,837 | 70% | 3.4 | 15 | \$2,903 | 86% | 7.7 |
| FE-Met Ed | VFD on HVAC Fan | Motor w/out VFD | Healthcare | Motors | New | motor | 47,923 | 72% | 3.3 | 15 | \$2,843 | 86% | 7.9 |
| FE-Met Ed | VFD on HVAC Fan | Motor w/out VFD | Healthcare | Motors | ROB | motor | 47,923 | 72% | 3.3 | 15 | \$2,843 | 86% | 7.9 |
| FE-Met Ed | Elevators | Std. Eff Elevator | Healthcare | Other | ROB | measure | 89,016 | 2.0% | 0.7 | 15 | \$2,110 | 81% | 0.8 |
| FE-Met Ed | Variable Speed Drives on Process Equipment | Constant speed control | Healthcare | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 11.3 |
| FE-Met Ed | Variable Speed Drives on Process Equipment | Constant speed control | Healthcare | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 11.3 |
| FE-Met Ed | Auto Off Time Switch | Lighting w/ No Controls | Healthcare | Other Int. Lighting | Existing | building | 38,906 | 24% | 0.2 | 8 | \$1,106 | 13% | 2.9 |
| FE-Met Ed | Auto Off Time Switch | Lighting w/ No Controls | Healthcare | Other Int. Lighting | New | building | 38,906 | 7.0% | 0.07 | 8 | \$1,106 | 0% | 0.8 |
| FE-Met Ed | Central Lighting Control System | Lighting w/ No Controls | Healthcare | Other Int. Lighting | Existing | building | 38,906 | 38% | 0.4 | 8 | \$1,106 | 13% | 4.6 |
| FE-Met Ed | Central Lighting Control System | Lighting w/ No Controls | Healthcare | Other Int. Lighting | New | building | 38,906 | 14% | 0.1 | 8 | \$1,106 | 13% | 1.7 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 40W Incandescent Bulb | Healthcare | Other Int. Lighting | Early | lamp | 178 | 87% | 0.03 | 8 | \$30 | 14% | 2.4 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Healthcare | Other Int. Lighting | Early | lamp | 128 | 81% | 0.02 | 8 | \$30 | 11% | 1.6 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Healthcare | Other Int. Lighting | New | lamp | 97 | 81% | 0.02 | 8 | \$21 | 14% | 1.7 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Healthcare | Other Int. Lighting | New | lamp | 97 | 81% | 0.02 | 8 | \$23 | 14% | 1.6 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Healthcare | Other Int. Lighting | New | lamp | 97 | 81% | 0.02 | 8 | \$22 | 11% | 1.6 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Healthcare | Other Int. Lighting | ROB | lamp | 128 | 81% | 0.02 | 8 | \$21 | 14% | 2.2 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Healthcare | Other Int. Lighting | ROB | lamp | 128 | 81% | 0.02 | 8 | \$23 | 14% | 2.1 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Healthcare | Other Int. Lighting | ROB | lamp | 128 | 81% | 0.02 | 8 | \$22 | 11% | 2.1 |
| FE-Met Ed | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Healthcare | Other Int. Lighting | Early | lamp | 178 | 75% | 0.03 | 3 | \$73 | 24% | 0.4 |
| FE-Met Ed | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Healthcare | Other Int. Lighting | New | fixture | 194 | 65% | 0.03 | 13 | \$29 | 28% | 3.0 |
| FE-Met Ed | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Healthcare | Other Int. Lighting | New | lamp | 97 | 65% | 0.01 | 3 | \$29 | 28% | 0.4 |
| FE-Met Ed | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Healthcare | Other Int. Lighting | ROB | fixture | 255 | 65% | 0.03 | 13 | \$29 | 24% | 3.9 |
| FE-Met Ed | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Healthcare | Other Int. Lighting | ROB | lamp | 128 | 65% | 0.02 | 3 | \$29 | 24% | 0.6 |
| FE-Met Ed | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Healthcare | Other Int. Lighting | Early | lamp | 178 | 75% | 0.03 | 3 | \$3.2 | 24% | 8.0 |
| FE-Met Ed | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Healthcare | Other Int. Lighting | New | lamp | 97 | 65% | 0.01 | 3 | \$1.8 | 24% | 6.8 |
| FE-Met Ed | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Healthcare | Other Int. Lighting | ROB | lamp | 128 | 65% | 0.02 | 3 | \$1.8 | 24% | 9.0 |
| FE-Met Ed | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Healthcare | Other Int. Lighting | ROB | lamp | 128 | 65% | 0.02 | 3 | \$1.8 | 24% | 9.0 |
| FE-Met Ed | Exit Sign Retrofit: CFL replacing Incandescent | One 23W Single Sided Incandescent Exit Sign | Healthcare | Other Int. Lighting | Early | exit sign | 138 | 42% | 0.01 | 15 | \$48 | 22% | 0.8 |
| FE-Met Ed | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Healthcare | Other Int. Lighting | New | building | 38,906 | 10% | 0.1 | 15 | \$32,147 | 32% | 0.1 |
| FE-Met Ed | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Healthcare | Other Int. Lighting | New | building | 38,906 | 15% | 0.2 | 15 | \$80,367 | 32% | 0.0 |
| FE-Met Ed | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Healthcare | Other Int. Lighting | New | building | 38,906 | 30% | 0.3 | 15 | \$115,193 | 32% | 0.1 |
| FE-Met Ed | Indoor Daylight Sensors | Lighting w/ No Controls | Healthcare | Other Int. Lighting | Existing | building | 38,906 | 28% | 0.3 | 8 | \$5,444 | 13% | 0.7 |
| FE-Met Ed | Indoor Daylight Sensors | Lighting w/ No Controls | Healthcare | Other Int. Lighting | New | building | 38,906 | 4.1% | 0.04 | 8 | \$5,444 | 0% | 0.1 |
| FE-Met Ed | LED Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Healthcare | Other Int. Lighting | Early | sign | 153 | 87% | 0.02 | 15 | \$48 | 16% | 1.9 |
| FE-Met Ed | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Healthcare | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 2.1 |
| FE-Met Ed | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Healthcare | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 2.1 |
| FE-Met Ed | LED Task Lighting/Screw-In | 1 15W CFL bulb | Healthcare | Other Int. Lighting | Early | lamp | 37 | 33% | 0.00 | 10 | \$9.6 | 24% | 0.7 |
| FE-Met Ed | LED Task Lighting/Screw-In | 1 60W Incandescent Bulb | Healthcare | Other Int. Lighting | Early | lamp | 150 | 83% | 0.03 | 10 | \$9.6 | 24% | 7.2 |
| FE-Met Ed | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Healthcare | Other Int. Lighting | New | lamp | 82 | 77% | 0.01 | 10 | \$7.9 | 24% | 4.4 |
| FE-Met Ed | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Healthcare | Other Int. Lighting | New | lamp | 82 | 77% | 0.01 | 10 | \$7.9 | 24% | 4.4 |
| FE-Met Ed | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Healthcare | Other Int. Lighting | ROB | lamp | 107 | 77% | 0.02 | 10 | \$7.9 | 24% | 5.8 |
| FE-Met Ed | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Healthcare | Other Int. Lighting | ROB | lamp | 107 | 77% | 0.02 | 10 | \$7.9 | 24% | 5.8 |
| FE-Met Ed | Occupancy Sensor | Lighting w/ No Controls | Healthcare | Other Int. Lighting | Existing | building | 38,906 | 24% | 0.2 | 8 | \$1,666 | 11% | 1.9 |
| FE-Met Ed | Occupancy Sensor | Lighting w/ No Controls | Healthcare | Other Int. Lighting | New | building | 38,906 | 7.0% | 0.07 | 8 | \$1,666 | 0% | 0.6 |
| FE-Met Ed | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Healthcare | Other Int. Lighting | Existing | building | 38,906 | 28% | 0.3 | 8 | \$5,444 | 11% | 0.7 |
| FE-Met Ed | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Healthcare | Other Int. Lighting | New | building | 38,906 | 4.1% | 0.04 | 8 | \$5,444 | 0% | 0.1 |
| FE-Met Ed | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Healthcare | Other Int. Lighting | Early | exit sign | 138 | 100% | 0.02 | 15 | \$173 | 26% | 0.5 |
| FE-Met Ed | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Healthcare | Other Int. Lighting | New | exit sign | 80 | 100% | 0.01 | 15 | \$148 | 31% | 0.4 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|---|------------|---------------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Healthcare | Other Int. Lighting | ROB | exit sign | 80 | 100% | 0.01 | 15 | \$148 | 26% | 0.4 |
| FE-Met Ed | Time Clock Control | Lighting w/ No Controls | Healthcare | Other Int. Lighting | Existing | building | 38,906 | 28% | 0.3 | 8 | \$1,106 | 13% | 3.4 |
| FE-Met Ed | Time Clock Control | Lighting w/ No Controls | Healthcare | Other Int. Lighting | New | building | 38,906 | 4.1% | 0.04 | 8 | \$1,106 | 0% | 0.5 |
| FE-Met Ed | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Healthcare | Plug Load | Existing | building | 6,394 | 46% | 0.5 | 5 | \$189 | 4% | 4.3 |
| FE-Met Ed | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Healthcare | Plug Load | New | building | 6,394 | 46% | 0.5 | 5 | \$189 | 4% | 4.3 |
| FE-Met Ed | Data Center - Server/Storage Consolidation | No Consolidation | Healthcare | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Met Ed | Data Center - Server/Storage Consolidation | No Consolidation | Healthcare | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Met Ed | Data Center - Server/Storage Virtualization | No Virtualization | Healthcare | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Met Ed | Data Center - Server/Storage Virtualization | No Virtualization | Healthcare | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Met Ed | Energy Star - Scanners | Std Scanner | Healthcare | Plug Load | New | measure | 68 | 3.9% | 0.04 | 4 | \$777 | 7% | 0.0 |
| FE-Met Ed | Energy Star - Scanners | Std Scanner | Healthcare | Plug Load | ROB | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| FE-Met Ed | Energy Star Battery Charging System (for small cordless products) | Std. Battery Charging System | Healthcare | Plug Load | ROB | measure | 593 | 2.3% | 4.8 | 5 | \$65 | 4% | 29.9 |
| FE-Met Ed | Energy Star Dishwasher | Existing Dishwasher units | Healthcare | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,580 | 6% | 1.1 |
| FE-Met Ed | Energy Star Dishwasher | Standard Dishwasher unit | Healthcare | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 6% | 3.5 |
| FE-Met Ed | Energy Star Dishwasher | Standard Dishwasher unit | Healthcare | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 6% | 3.5 |
| FE-Met Ed | Energy Star External Power Adapter | Std. Power Adapter | Healthcare | Plug Load | New | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| FE-Met Ed | Energy Star External Power Adapter | Std. Power Adapter | Healthcare | Plug Load | ROB | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| FE-Met Ed | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Healthcare | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 17% | 0.2 |
| FE-Met Ed | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Healthcare | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.1 |
| FE-Met Ed | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Healthcare | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.1 |
| FE-Met Ed | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Healthcare | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 9% | 0.8 |
| FE-Met Ed | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Healthcare | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.7 |
| FE-Met Ed | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Healthcare | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.7 |
| FE-Met Ed | ENERGY STAR® Copiers | 10% Less Efficient Copier | Healthcare | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 80% | 0.0 |
| FE-Met Ed | ENERGY STAR® Copiers | One Conventional Copier | Healthcare | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 80% | 0.0 |
| FE-Met Ed | ENERGY STAR® Copiers | One Conventional Copier | Healthcare | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 80% | 0.0 |
| FE-Met Ed | ENERGY STAR® desktop | Standard computer | Healthcare | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 69% | 0.1 |
| FE-Met Ed | ENERGY STAR® desktop | Standard computer | Healthcare | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.4 |
| FE-Met Ed | ENERGY STAR® desktop | Standard computer | Healthcare | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.4 |
| FE-Met Ed | ENERGY STAR® Fax | 10% Less Efficient Fax | Healthcare | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 15% | 0.0 |
| FE-Met Ed | ENERGY STAR® Fax | One Conventional Fax | Healthcare | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| FE-Met Ed | ENERGY STAR® Fax | One Conventional Fax | Healthcare | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| FE-Met Ed | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Healthcare | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 70% | 0.0 |
| FE-Met Ed | ENERGY STAR® Monitors | One Conventional Monitor | Healthcare | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| FE-Met Ed | ENERGY STAR® Monitors | One Conventional Monitor | Healthcare | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| FE-Met Ed | ENERGY STAR® Printers | 10% Less Efficient Printer | Healthcare | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 44% | 0.0 |
| FE-Met Ed | ENERGY STAR® Printers | One Conventional Printer | Healthcare | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.4 |
| FE-Met Ed | ENERGY STAR® Printers | One Conventional Printer | Healthcare | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.4 |
| FE-Met Ed | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Healthcare | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 43% | 0.1 |
| FE-Met Ed | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Healthcare | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.8 |
| FE-Met Ed | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Healthcare | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.8 |
| FE-Met Ed | ENERGY STAR® Televisions | 10% Less Efficient Television | Healthcare | Plug Load | Early | Unit | 230 | 38% | 0.02 | 6 | \$672 | 40% | 0.0 |
| FE-Met Ed | ENERGY STAR® Televisions | One Conventional Television | Healthcare | Plug Load | New | Unit | 209 | 32% | 0.01 | 6 | \$206 | 40% | 0.1 |
| FE-Met Ed | ENERGY STAR® Televisions | One Conventional Television | Healthcare | Plug Load | ROB | Unit | 209 | 32% | 0.01 | 6 | \$206 | 40% | 0.1 |
| FE-Met Ed | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Healthcare | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 24% | 0.3 |
| FE-Met Ed | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Healthcare | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.7 |
| FE-Met Ed | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Healthcare | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.7 |
| FE-Met Ed | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Healthcare | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 73% | 0.3 |
| FE-Met Ed | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Healthcare | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 73% | 0.3 |
| FE-Met Ed | Network PC Power Management | No PC Power Management | Healthcare | Plug Load | Existing | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 61.0 |
| FE-Met Ed | Network PC Power Management | No PC Power Management | Healthcare | Plug Load | New | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 61.0 |
| FE-Met Ed | Smart Strip Plug Outlets | Standard plug strip/outlet | Healthcare | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.5 |
| FE-Met Ed | Smart Strip Plug Outlets | Standard plug strip/outlet | Healthcare | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.5 |
| FE-Met Ed | Smart Strip Plug Outlets | Standard plug strip/outlet | Healthcare | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Met Ed | Smart Strip Plug Outlets | Standard plug strip/outlet | Healthcare | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Met Ed | Smart Strip Plug Outlets | Standard plug strip/outlet | Healthcare | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Met Ed | Smart Strip Plug Outlets | Standard plug strip/outlet | Healthcare | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Met Ed | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Healthcare | Plug Load | Existing | building | 6,394 | 46% | 0.5 | 5 | \$180 | 3% | 4.5 |
| FE-Met Ed | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Healthcare | Plug Load | New | building | 6,394 | 46% | 0.5 | 5 | \$180 | 3% | 4.5 |
| FE-Met Ed | Air curtain technology | Strip plastic curtain | Healthcare | Refrigeration | New | building | 2,029 | 6.8% | 0.07 | 8 | \$1,735 | 35% | 0.0 |
| FE-Met Ed | Air curtain technology | Strip plastic curtain | Healthcare | Refrigeration | New | building | 22,574 | 6.8% | 0.07 | 8 | \$1,672 | 35% | 0.3 |
| FE-Met Ed | Auto Closer on Refrigerator Door | Door w/out Autocloser | Healthcare | Refrigeration | Existing | building | 2,029 | 11% | 0.1 | 8 | \$749 | 40% | 0.2 |
| FE-Met Ed | Auto Closer on Refrigerator Door | Door w/out Autocloser | Healthcare | Refrigeration | Existing | building | 22,574 | 6.7% | 0.07 | 8 | \$833 | 40% | 0.6 |
| FE-Met Ed | Auto Closer on Refrigerator Door | Door w/out Autocloser | Healthcare | Refrigeration | New | building | 2,029 | 11% | 0.1 | 8 | \$749 | 40% | 0.2 |
| FE-Met Ed | Auto Closer on Refrigerator Door | Door w/out Autocloser | Healthcare | Refrigeration | New | building | 22,574 | 6.7% | 0.07 | 8 | \$833 | 40% | 0.6 |
| FE-Met Ed | Door Gasket- Freezer | Door w/out Gasket | Healthcare | Refrigeration | Existing | building | 2,029 | 5.8% | 0.06 | 4 | \$77 | 29% | 0.5 |
| FE-Met Ed | Door Gasket- Freezer | Door w/out Gasket | Healthcare | Refrigeration | New | building | 2,029 | 5.8% | 0.06 | 4 | \$77 | 29% | 0.5 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|--|------------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Door Gasket- Refrigerator | Door w/out Gasket | Healthcare | Refrigeration | Existing | building | 22,574 | 2.1% | 0.02 | 4 | \$115 | 45% | 0.8 |
| FE-Met Ed | Door Gasket- Refrigerator | Door w/out Gasket | Healthcare | Refrigeration | New | building | 22,574 | 2.1% | 0.02 | 4 | \$115 | 45% | 0.8 |
| FE-Met Ed | Economizer for Walk-in Coolers | No Economizer | Healthcare | Refrigeration | Early | measure | 25,239 | 6.6% | 0.2 | 10 | \$293 | 72% | 2.7 |
| FE-Met Ed | Economizer for Walk-in Coolers | No Economizer | Healthcare | Refrigeration | Early | measure | 25,239 | 6.6% | 0.2 | 10 | \$293 | 72% | 2.7 |
| FE-Met Ed | Economizer for Walk-in Coolers | No Economizer | Healthcare | Refrigeration | Early | measure | 25,239 | 6.6% | 0.2 | 10 | \$293 | 72% | 2.7 |
| FE-Met Ed | Economizer for Walk-in Coolers | No Economizer | Healthcare | Refrigeration | Early | measure | 25,239 | 6.6% | 0.2 | 10 | \$293 | 72% | 2.7 |
| FE-Met Ed | Economizer for Walk-in Coolers | No Economizer | Healthcare | Refrigeration | New | measure | 25,239 | 6.6% | 0.2 | 10 | \$35 | 72% | 23.2 |
| FE-Met Ed | Economizer for Walk-in Coolers | No Economizer | Healthcare | Refrigeration | New | measure | 25,239 | 6.6% | 0.2 | 10 | \$35 | 72% | 23.2 |
| FE-Met Ed | Economizer for Walk-in Coolers | No Economizer | Healthcare | Refrigeration | New | measure | 25,239 | 6.6% | 0.2 | 10 | \$35 | 72% | 23.2 |
| FE-Met Ed | Economizer for Walk-in Coolers | No Economizer | Healthcare | Refrigeration | New | measure | 25,239 | 6.6% | 0.2 | 10 | \$35 | 72% | 23.2 |
| FE-Met Ed | Economizer for Walk-in Coolers | No Economizer | Healthcare | Refrigeration | ROB | measure | 25,239 | 6.6% | 0.2 | 10 | \$35 | 72% | 23.2 |
| FE-Met Ed | Economizer for Walk-in Coolers | No Economizer | Healthcare | Refrigeration | ROB | measure | 25,239 | 6.6% | 0.2 | 10 | \$35 | 72% | 23.2 |
| FE-Met Ed | Economizer for Walk-in Coolers | No Economizer | Healthcare | Refrigeration | ROB | measure | 25,239 | 6.6% | 0.2 | 10 | \$35 | 72% | 23.2 |
| FE-Met Ed | eCube | Refrigeration unit w/out eCube | Healthcare | Refrigeration | Existing | building | 22,574 | 15% | 0.2 | 15 | \$443 | 57% | 4.5 |
| FE-Met Ed | eCube | Refrigeration unit w/out eCube | Healthcare | Refrigeration | New | building | 22,574 | 15% | 0.2 | 15 | \$443 | 57% | 4.5 |
| FE-Met Ed | Efficient compressor motor | Base Refrigeration System - Grocery | Healthcare | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| FE-Met Ed | Efficient compressor motor | Base Refrigeration System - Grocery | Healthcare | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| FE-Met Ed | Efficient compressor motor | Base Refrigeration System - Grocery | Healthcare | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| FE-Met Ed | Efficient compressor motor | Base Refrigeration System - Grocery | Healthcare | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| FE-Met Ed | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Healthcare | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.6 |
| FE-Met Ed | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Healthcare | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| FE-Met Ed | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Healthcare | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| FE-Met Ed | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Healthcare | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.3 |
| FE-Met Ed | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Healthcare | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.8 |
| FE-Met Ed | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Healthcare | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.8 |
| FE-Met Ed | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Healthcare | Refrigeration | Existing | building | 22,574 | 0.7% | 0.01 | 10 | \$369 | 77% | 0.2 |
| FE-Met Ed | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Healthcare | Refrigeration | New | building | 22,574 | 0.7% | 0.01 | 10 | \$369 | 77% | 0.2 |
| FE-Met Ed | Floating head pressure controller | System w/out FHPC | Healthcare | Refrigeration | Existing | building | 2,029 | 12% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-Met Ed | Floating head pressure controller | System w/out FHPC | Healthcare | Refrigeration | Existing | building | 22,574 | 0.4% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| FE-Met Ed | Floating head pressure controller | System w/out FHPC | Healthcare | Refrigeration | New | building | 2,029 | 12% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-Met Ed | Floating head pressure controller | System w/out FHPC | Healthcare | Refrigeration | New | building | 22,574 | 0.4% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| FE-Met Ed | High Efficiency Commercial Freezer | Std. Commercial Freezer | Healthcare | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 84% | 0.3 |
| FE-Met Ed | High Efficiency Commercial Freezer | Std. Commercial Freezer | Healthcare | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 84% | 4.1 |
| FE-Met Ed | High Efficiency Commercial Freezer | Std. Commercial Freezer | Healthcare | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 84% | 4.1 |
| FE-Met Ed | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Healthcare | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 21% | 0.1 |
| FE-Met Ed | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Healthcare | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 21% | 0.9 |
| FE-Met Ed | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Healthcare | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 21% | 0.9 |
| FE-Met Ed | High Efficiency Ice Maker | Existing Standard Efficiency Ice Maker in Pennsylvania | Healthcare | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 69% | 0.2 |
| FE-Met Ed | High Efficiency Ice Maker | Standard code minimum Ice Maker | Healthcare | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 69% | 0.2 |
| FE-Met Ed | High Efficiency Ice Maker | Standard code minimum Ice Maker | Healthcare | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 69% | 0.2 |
| FE-Met Ed | High Efficiency Ice Making Head | Standard Ice Making Head | Healthcare | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 4.0 |
| FE-Met Ed | High Efficiency Ice Making Head | Standard Ice Making Head | Healthcare | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 4.0 |
| FE-Met Ed | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Healthcare | Refrigeration | Early | Fixture | 373 | 56% | 0.02 | 8 | \$448 | 86% | 0.2 |
| FE-Met Ed | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Healthcare | Refrigeration | New | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 86% | 0.3 |
| FE-Met Ed | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Healthcare | Refrigeration | ROB | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 86% | 0.3 |
| FE-Met Ed | Quick acting freezer doors | Std. Freezer Doors | Healthcare | Refrigeration | Existing | building | 2,029 | 13% | 0.1 | 10 | \$2,093 | 56% | 0.1 |
| FE-Met Ed | Quick acting freezer doors | Std. Freezer Doors | Healthcare | Refrigeration | New | building | 2,029 | 13% | 0.1 | 10 | \$2,093 | 56% | 0.1 |
| FE-Met Ed | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Healthcare | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 29% | 0.4 |
| FE-Met Ed | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Healthcare | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 29% | 1.6 |
| FE-Met Ed | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Healthcare | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 29% | 1.6 |
| FE-Met Ed | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 29% | 1.7 |
| FE-Met Ed | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 29% | 3.0 |
| FE-Met Ed | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 29% | 3.0 |
| FE-Met Ed | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 29% | 1.7 |
| FE-Met Ed | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 29% | 4.0 |
| FE-Met Ed | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 29% | 4.0 |
| FE-Met Ed | Refrigeration Commissioning | Non-commissioned refrigeration system | Healthcare | Refrigeration | Existing | building | 25,364 | 9.5% | 0.10 | 3 | \$1,147 | 85% | 0.3 |
| FE-Met Ed | Refrigeration Commissioning | Non-commissioned refrigeration system | Healthcare | Refrigeration | New | building | 25,364 | 9.5% | 0.10 | 3 | \$1,147 | 85% | 0.3 |
| FE-Met Ed | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Healthcare | Refrigeration | Existing | building | 2,029 | 14% | 0.1 | 4 | \$93 | 22% | 1.0 |
| FE-Met Ed | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Healthcare | Refrigeration | Existing | building | 22,574 | 2.9% | 0.03 | 4 | \$140 | 22% | 0.9 |
| FE-Met Ed | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Healthcare | Refrigeration | New | building | 2,029 | 14% | 0.1 | 4 | \$93 | 22% | 1.0 |
| FE-Met Ed | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Healthcare | Refrigeration | New | building | 22,574 | 2.9% | 0.03 | 4 | \$140 | 22% | 0.9 |
| FE-Met Ed | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Healthcare | Refrigeration | Existing | building | 2,029 | 2.6% | 0.03 | 11 | \$130 | 77% | 0.3 |
| FE-Met Ed | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Healthcare | Refrigeration | New | building | 2,029 | 2.6% | 0.03 | 11 | \$130 | 77% | 0.3 |
| FE-Met Ed | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Healthcare | Refrigeration | Existing | building | 22,574 | 2.0% | 0.02 | 11 | \$130 | 77% | 1.5 |
| FE-Met Ed | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Healthcare | Refrigeration | New | building | 22,574 | 2.0% | 0.02 | 11 | \$130 | 77% | 1.5 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|---|------------|-----------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Vendor Miser | No Vendor Miser | Healthcare | Refrigeration | Existing | machine | 1,015 | 12% | 0.1 | 8 | \$101 | 7% | 1.1 |
| FE-Met Ed | VSD Controlled Compressor | Compressor w/out VSD | Healthcare | Refrigeration | Early | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 73% | 0.2 |
| FE-Met Ed | VSD Controlled Compressor | Compressor w/out VSD | Healthcare | Refrigeration | New | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 73% | 0.2 |
| FE-Met Ed | VSD Controlled Compressor | Compressor w/out VSD | Healthcare | Refrigeration | ROB | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 73% | 0.2 |
| FE-Met Ed | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Healthcare | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$269 | 35% | 0.9 |
| FE-Met Ed | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Healthcare | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$269 | 35% | 0.9 |
| FE-Met Ed | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Healthcare | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.2 |
| FE-Met Ed | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Healthcare | Refrigeration | New | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 3.0 |
| FE-Met Ed | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Healthcare | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.2 |
| FE-Met Ed | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Healthcare | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 3.0 |
| FE-Met Ed | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 35% | 2.4 |
| FE-Met Ed | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 35% | 2.3 |
| FE-Met Ed | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 5.2 |
| FE-Met Ed | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.9 |
| FE-Met Ed | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 5.2 |
| FE-Met Ed | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.9 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Healthcare | Space Heating | Existing | building | 33,728 | 7.1% | 0.07 | 6 | \$15,140 | 82% | 0.0 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Healthcare | Space Heating | New | building | 33,728 | 7.1% | 0.07 | 6 | \$15,140 | 82% | 0.0 |
| FE-Met Ed | Adding window shade film | No shade film | Healthcare | Space Heating | Existing | building | 33,728 | 1.3% | 0.4 | 10 | \$410 | 13% | 1.0 |
| FE-Met Ed | Adding window shade film | No shade film | Healthcare | Space Heating | New | building | 33,728 | 1.3% | 0.4 | 10 | \$410 | 13% | 1.0 |
| FE-Met Ed | Adding window shade screen | No shade screen | Healthcare | Space Heating | Existing | building | 33,728 | 1.1% | 0.01 | 10 | \$159 | 13% | 0.9 |
| FE-Met Ed | Adding window shade screen | No shade screen | Healthcare | Space Heating | New | building | 33,728 | 1.1% | 0.01 | 10 | \$159 | 13% | 0.9 |
| FE-Met Ed | Automated control system | Manual Controls | Healthcare | Space Heating | Existing | building | 33,728 | 17% | 0.2 | 15 | \$36,924 | 51% | 0.1 |
| FE-Met Ed | Automated control system | Manual Controls | Healthcare | Space Heating | New | building | 33,728 | 17% | 0.2 | 15 | \$36,924 | 94% | 0.1 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Healthcare | Space Heating | Existing | building | 33,728 | 1.1% | 0.01 | 15 | \$20,566 | 71% | 0.0 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Healthcare | Space Heating | New | building | 33,728 | 0.3% | 0.00 | 15 | \$19,549 | 94% | 0.0 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Healthcare | Space Heating | Existing | building | 33,728 | 1.4% | 0.04 | 15 | \$268 | 20% | 1.1 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Healthcare | Space Heating | New | building | 33,728 | 1.4% | 0.04 | 15 | \$268 | 10% | 1.1 |
| FE-Met Ed | Efficient Unit Heating System | Existing Unit Heaters in PA | Healthcare | Space Heating | Early | heater | 20,078 | 23% | 0.03 | 15 | \$3,289 | 83% | 0.7 |
| FE-Met Ed | Efficient Unit Heating System | Std. Unit Heater | Healthcare | Space Heating | New | heater | 17,819 | 13% | 0.02 | 15 | \$1,991 | 83% | 0.6 |
| FE-Met Ed | Efficient Unit Heating System | Std. Unit Heater | Healthcare | Space Heating | ROB | heater | 17,819 | 13% | 0.02 | 15 | \$1,991 | 83% | 0.6 |
| FE-Met Ed | Facility Commissioning | No Facility Commissioning | Healthcare | Space Heating | New | building | 33,728 | 16% | 0.2 | 10 | \$68,025 | 89% | 0.0 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Healthcare | Space Heating | Existing | building | 33,728 | 7.1% | 0.07 | 15 | \$149,611 | 25% | 0.0 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Healthcare | Space Heating | New | building | 33,728 | 7.1% | 0.07 | 15 | \$149,611 | 35% | 0.0 |
| FE-Met Ed | Hi Eff HVAC System Design | No HVAC Design | Healthcare | Space Heating | New | building | 33,728 | 8.6% | 0.09 | 10 | \$661,579 | 51% | 0.0 |
| FE-Met Ed | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Healthcare | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 1.0 |
| FE-Met Ed | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Healthcare | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 1.0 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Healthcare | Space Heating | Existing | building | 33,728 | 2.1% | 0.02 | 10 | \$7,735 | 81% | 0.0 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Healthcare | Space Heating | New | building | 33,728 | 2.1% | 0.02 | 10 | \$7,735 | 81% | 0.0 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Healthcare | Space Heating | Existing | building | 33,728 | 3.6% | 0.04 | 11 | \$286 | 49% | 1.8 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Healthcare | Space Heating | New | building | 33,728 | 3.1% | 0.03 | 11 | \$146 | 49% | 3.0 |
| FE-Met Ed | Re-Commissioning (Existing Construction) | No Re-Commissioning | Healthcare | Space Heating | Existing | building | 33,728 | 16% | 0.2 | 5 | \$8,847 | 86% | 0.1 |
| FE-Met Ed | VFD on Cooling Tower Fan | Motor w/out VFD | Healthcare | Space Heating | Early | motor | 48,837 | 70% | 3.4 | 15 | \$2,843 | 88% | 7.5 |
| FE-Met Ed | VFD on Cooling Tower Fan | Motor w/out VFD | Healthcare | Space Heating | New | motor | 47,923 | 72% | 3.3 | 15 | \$2,843 | 88% | 7.5 |
| FE-Met Ed | VFD on Cooling Tower Fan | Motor w/out VFD | Healthcare | Space Heating | ROB | motor | 47,923 | 72% | 3.3 | 15 | \$2,843 | 88% | 7.5 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Healthcare | Space Heating | Existing | building | 33,728 | 2.6% | 0.03 | 15 | \$5,624 | 26% | 0.1 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Healthcare | Space Heating | New | building | 33,728 | 0.1% | 0.00 | 15 | \$4,314 | 94% | 0.0 |
| FE-Met Ed | Green LED Traffic Light | Green Incandescent Traffic Light | Healthcare | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 0% | 1.3 |
| FE-Met Ed | Green LED Traffic Light | Green Incandescent Traffic Light | Healthcare | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.2 |
| FE-Met Ed | Green LED Traffic Light | Green Incandescent Traffic Light | Healthcare | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.2 |
| FE-Met Ed | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Healthcare | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 0% | 3.1 |
| FE-Met Ed | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Healthcare | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-Met Ed | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Healthcare | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-Met Ed | Induction Street Lighting | One 100W HPS Street Light Fixture | Healthcare | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 0% | 0.3 |
| FE-Met Ed | Induction Street Lighting | One 100W HPS Street Light Fixture | Healthcare | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.8 |
| FE-Met Ed | Induction Street Lighting | One 100W HPS Street Light Fixture | Healthcare | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.8 |
| FE-Met Ed | LED Street Lighting | One 100W HPS Street Light | Healthcare | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 0% | 0.2 |
| FE-Met Ed | LED Street Lighting | One 100W HPS Street Light | Healthcare | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-Met Ed | LED Street Lighting | One 100W HPS Street Light | Healthcare | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-Met Ed | Red LED Traffic Light | One Red Incandescent Traffic Light | Healthcare | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 0% | 1.7 |
| FE-Met Ed | Red LED Traffic Light | One Red Incandescent Traffic Light | Healthcare | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| FE-Met Ed | Red LED Traffic Light | One Red Incandescent Traffic Light | Healthcare | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| FE-Met Ed | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Healthcare | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 0% | 0.1 |
| FE-Met Ed | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Healthcare | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-Met Ed | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Healthcare | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-Met Ed | Demand controlled Circulating Systems | Constant circulation system | Healthcare | Water Heating | Existing | building | 1,973 | 20% | 0.2 | 15 | \$358 | 59% | 1.1 |
| FE-Met Ed | Demand controlled Circulating Systems | Constant circulation system | Healthcare | Water Heating | New | building | 1,973 | 20% | 0.2 | 15 | \$358 | 59% | 1.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|--|---|------------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Drainwater Heat Recovery Water Heater | No heat recovery | Healthcare | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 2.0 |
| FE-Met Ed | Drainwater Heat Recovery Water Heater | No heat recovery | Healthcare | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 2.0 |
| FE-Met Ed | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Healthcare | Water Heating | Existing | building | 1,973 | 5.9% | 0.06 | 12 | \$140 | 85% | 0.7 |
| FE-Met Ed | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Healthcare | Water Heating | New | building | 1,973 | 5.9% | 0.06 | 12 | \$40 | 85% | 2.5 |
| FE-Met Ed | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Healthcare | Water Heating | Early | water heater | 96,871 | 66% | 11.3 | 10 | \$3,562 | 68% | 9.3 |
| FE-Met Ed | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Healthcare | Water Heating | Early | water heater | 96,871 | 66% | 11.3 | 10 | \$3,562 | 68% | 9.3 |
| FE-Met Ed | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Healthcare | Water Heating | New | water heater | 96,871 | 66% | 11.3 | 10 | \$3,562 | 68% | 9.3 |
| FE-Met Ed | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Healthcare | Water Heating | New | water heater | 96,871 | 66% | 11.3 | 10 | \$3,562 | 68% | 9.3 |
| FE-Met Ed | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Healthcare | Water Heating | ROB | water heater | 94,180 | 65% | 10.9 | 10 | \$3,562 | 68% | 8.9 |
| FE-Met Ed | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Healthcare | Water Heating | ROB | water heater | 94,180 | 65% | 10.9 | 10 | \$3,562 | 68% | 8.9 |
| FE-Met Ed | Heat Recovery Unit | Base Water Heating | Healthcare | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.7 |
| FE-Met Ed | Heat Recovery Unit | Base Water Heating | Healthcare | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.7 |
| FE-Met Ed | Heat Trap | No Heat Trap | Healthcare | Water Heating | Existing | building | 1,973 | 1.0% | 0.01 | 11 | \$0.4 | 50% | 42.7 |
| FE-Met Ed | Heat Trap | No Heat Trap | Healthcare | Water Heating | New | building | 1,973 | 1.0% | 0.01 | 11 | \$0.1 | 50% | 111.5 |
| FE-Met Ed | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Healthcare | Water Heating | Early | water heater | 96,871 | 5.9% | 1.0 | 15 | \$921 | 79% | 4.5 |
| FE-Met Ed | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Healthcare | Water Heating | Early | water heater | 96,871 | 5.9% | 1.0 | 15 | \$921 | 79% | 4.5 |
| FE-Met Ed | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Healthcare | Water Heating | New | water heater | 94,180 | 3.2% | 0.5 | 15 | \$921 | 79% | 2.4 |
| FE-Met Ed | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Healthcare | Water Heating | New | water heater | 94,180 | 3.2% | 0.5 | 15 | \$921 | 79% | 2.4 |
| FE-Met Ed | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Healthcare | Water Heating | ROB | water heater | 94,180 | 3.2% | 0.5 | 15 | \$921 | 79% | 2.4 |
| FE-Met Ed | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Healthcare | Water Heating | ROB | water heater | 94,180 | 3.2% | 0.5 | 15 | \$921 | 79% | 2.4 |
| FE-Met Ed | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Healthcare | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$466 | 81% | 41.0 |
| FE-Met Ed | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Healthcare | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 21.4 |
| FE-Met Ed | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Healthcare | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 21.4 |
| FE-Met Ed | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Healthcare | Water Heating | Existing | building | 1,973 | 3.1% | 0.03 | 13 | \$9.2 | 68% | 6.2 |
| FE-Met Ed | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Healthcare | Water Heating | New | building | 1,973 | 3.1% | 0.03 | 13 | \$9.2 | 0% | 6.2 |
| FE-Met Ed | Hot Water Circulation Pump Time-Clock | Constant circulation system | Healthcare | Water Heating | Existing | building | 1,973 | 5.3% | 0.05 | 10 | \$8.0 | 72% | 9.9 |
| FE-Met Ed | Hot Water Circulation Pump Time-Clock | Constant circulation system | Healthcare | Water Heating | New | building | 1,973 | 5.3% | 0.05 | 10 | \$8.0 | 72% | 9.9 |
| FE-Met Ed | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Healthcare | Water Heating | Existing | building | 1,756 | 0.1% | 0.00 | 7 | \$22 | 78% | 0.1 |
| FE-Met Ed | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Healthcare | Water Heating | New | building | 1,756 | 0.1% | 0.00 | 7 | \$0.5 | 78% | 2.3 |
| FE-Met Ed | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Healthcare | Water Heating | Existing | building | 1,973 | 9.7% | 0.10 | 5 | \$300 | 20% | 0.3 |
| FE-Met Ed | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Healthcare | Water Heating | New | building | 1,973 | 6.4% | 0.06 | 5 | \$194 | 20% | 0.3 |
| FE-Met Ed | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Healthcare | Water Heating | Existing | building | 1,973 | 6.5% | 0.07 | 9 | \$250 | 9% | 0.4 |
| FE-Met Ed | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Healthcare | Water Heating | New | building | 1,973 | 6.5% | 0.07 | 9 | \$60 | 9% | 1.5 |
| FE-Met Ed | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Healthcare | Water Heating | Early | water heater | 96,871 | 52% | 4.1 | 15 | \$18,666 | 32% | 1.7 |
| FE-Met Ed | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Healthcare | Water Heating | New | water heater | 94,180 | 51% | 3.9 | 15 | \$18,666 | 32% | 1.6 |
| FE-Met Ed | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Healthcare | Water Heating | ROB | water heater | 94,180 | 51% | 3.9 | 15 | \$18,666 | 32% | 1.6 |
| FE-Met Ed | Ultrasonic Faucet Control | Manual Faucet Control | Healthcare | Water Heating | Existing | building | 1,973 | 3.0% | 0.03 | 10 | \$341 | 77% | 0.1 |
| FE-Met Ed | Ultrasonic Faucet Control | Manual Faucet Control | Healthcare | Water Heating | New | building | 1,973 | 3.1% | 0.03 | 10 | \$341 | 77% | 0.1 |
| FE-Met Ed | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Healthcare | Water Heating | Existing | building | 1,973 | 2.2% | 0.02 | 4 | \$28 | 83% | 0.6 |
| FE-Met Ed | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Healthcare | Water Heating | New | building | 1,973 | 2.3% | 0.02 | 4 | \$28 | 83% | 0.6 |
| FE-Met Ed | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Lodging | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.2 |
| FE-Met Ed | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Lodging | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.2 |
| FE-Met Ed | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Lodging | Cooking | Early | steamer | 51 | 46% | 0.00 | 12 | \$5,053 | 81% | 0.0 |
| FE-Met Ed | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Lodging | Cooking | New | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-Met Ed | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Lodging | Cooking | ROB | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-Met Ed | Electric combination oven (Energy Star) | Standard Oven | Lodging | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 3.1 |
| FE-Met Ed | Electric combination oven (Energy Star) | Standard Oven | Lodging | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 3.1 |
| FE-Met Ed | Electric Convection Oven | Conventional convection oven w/ 65% efficiency | Lodging | Cooking | Early | oven | 8,641 | 37% | 0.6 | 12 | \$4,119 | 81% | 0.5 |
| FE-Met Ed | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Lodging | Cooking | New | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.8 |
| FE-Met Ed | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Lodging | Cooking | ROB | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.8 |
| FE-Met Ed | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Lodging | Cooking | Early | fryer | 6,105 | 23% | 0.3 | 12 | \$9,241 | 86% | 0.1 |
| FE-Met Ed | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Lodging | Cooking | New | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.4 |
| FE-Met Ed | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Lodging | Cooking | ROB | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.4 |
| FE-Met Ed | High Efficiency Griddle (ENERGY STAR) | Efficiency code minimum griddle (70% eff) | Lodging | Cooking | Early | griddle | 11,317 | 65% | 1.4 | 12 | \$4,977 | 86% | 0.9 |
| FE-Met Ed | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Lodging | Cooking | New | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.3 |
| FE-Met Ed | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Lodging | Cooking | ROB | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.3 |
| FE-Met Ed | High Efficiency Induction Cooking | Standard Cooking | Lodging | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-Met Ed | High Efficiency Induction Cooking | Standard Cooking | Lodging | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Lodging | Cooling Central | Existing | building | 5,070 | 7.0% | 0.07 | 6 | \$17,641 | 82% | 0.0 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Lodging | Cooling Central | New | building | 5,070 | 7.0% | 0.07 | 6 | \$17,641 | 82% | 0.0 |
| FE-Met Ed | Adding window shade film | No shade film | Lodging | Cooling Central | Existing | building | 5,070 | 1.3% | 0.4 | 10 | \$62 | 12% | 4.7 |
| FE-Met Ed | Adding window shade film | No shade film | Lodging | Cooling Central | New | building | 5,070 | 1.3% | 0.4 | 10 | \$62 | 13% | 4.7 |
| FE-Met Ed | Adding window shade screen | No shade screen | Lodging | Cooling Central | Existing | building | 5,070 | 1.1% | 0.01 | 10 | \$24 | 13% | 1.2 |
| FE-Met Ed | Adding window shade screen | No shade screen | Lodging | Cooling Central | New | building | 5,070 | 1.1% | 0.01 | 10 | \$24 | 13% | 1.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|--|---|---------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Automated control system | Manual Controls | Lodging | Cooling Central | Existing | building | 5,070 | 17% | 0.2 | 15 | \$5,551 | 51% | 0.1 |
| FE-Met Ed | Automated control system | Manual Controls | Lodging | Cooling Central | New | building | 5,070 | 17% | 0.2 | 15 | \$5,551 | 94% | 0.1 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Lodging | Cooling Central | Existing | building | 5,070 | 3.3% | 0.03 | 15 | \$23,552 | 71% | 0.0 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Lodging | Cooling Central | New | building | 5,070 | 1.1% | 0.01 | 15 | \$22,387 | 94% | 0.0 |
| FE-Met Ed | Chiller Tuneup/Diagnostics | No tuneup | Lodging | Cooling Central | Existing | building | 5,070 | 8.0% | 0.08 | 10 | \$12,947 | 59% | 0.0 |
| FE-Met Ed | Chiller Tuneup/Diagnostics | No tuneup | Lodging | Cooling Central | New | building | 5,070 | 8.0% | 0.08 | 10 | \$12,947 | 59% | 0.0 |
| FE-Met Ed | Commercial energy recovery ventilation systems | No Commercial Recovery System | Lodging | Cooling Central | Existing | building | 5,070 | 16% | 0.2 | 14 | \$4,582 | 71% | 0.1 |
| FE-Met Ed | Cooling Tower Optimization | No Cooling Tower Optimization | Lodging | Cooling Central | Existing | building | 5,070 | 20% | 0.2 | 10 | \$31 | 69% | 17.1 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Lodging | Cooling Central | Existing | building | 5,070 | 1.4% | 0.04 | 15 | \$40 | 20% | 1.9 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Lodging | Cooling Central | New | building | 5,070 | 1.4% | 0.04 | 15 | \$40 | 10% | 1.9 |
| FE-Met Ed | Facility Commissioning | No Facility Commissioning | Lodging | Cooling Central | New | building | 5,070 | 16% | 0.2 | 10 | \$2,317 | 89% | 0.2 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Lodging | Cooling Central | Existing | building | 5,070 | 7.0% | 0.07 | 15 | \$22,490 | 25% | 0.0 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Lodging | Cooling Central | New | building | 5,070 | 7.0% | 0.07 | 15 | \$22,490 | 35% | 0.0 |
| FE-Met Ed | Hi Eff HVAC System Design | No HVAC Design | Lodging | Cooling Central | New | building | 5,070 | 7.3% | 0.07 | 10 | \$66,318 | 51% | 0.0 |
| FE-Met Ed | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Lodging | Cooling Central | Early | ton | 14,787 | 24% | 1.2 | 15 | \$108,550 | 88% | 0.0 |
| FE-Met Ed | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Lodging | Cooling Central | New | ton | 12,088 | 6.7% | 0.3 | 15 | \$12,927 | 88% | 0.1 |
| FE-Met Ed | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Lodging | Cooling Central | ROB | ton | 12,088 | 6.7% | 0.3 | 15 | \$12,927 | 88% | 0.1 |
| FE-Met Ed | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Lodging | Cooling Central | Early | ton | 22,095 | 23% | 1.8 | 15 | \$140,105 | 88% | 0.0 |
| FE-Met Ed | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Lodging | Cooling Central | New | ton | 17,776 | 4.9% | 0.3 | 15 | \$9,336 | 88% | 0.1 |
| FE-Met Ed | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Lodging | Cooling Central | ROB | ton | 17,776 | 4.9% | 0.3 | 15 | \$9,336 | 88% | 0.1 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Lodging | Cooling Central | Early | ton | 180,879 | 26% | 16.3 | 15 | \$105,354 | 88% | 0.4 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Lodging | Cooling Central | New | ton | 157,597 | 15% | 8.2 | 15 | \$30,530 | 88% | 0.7 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Lodging | Cooling Central | ROB | ton | 157,597 | 15% | 8.2 | 15 | \$30,530 | 88% | 0.7 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Lodging | Cooling Central | Early | ton | 270,907 | 23% | 21.5 | 15 | \$154,107 | 88% | 0.4 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Lodging | Cooling Central | New | ton | 248,862 | 16% | 13.9 | 15 | \$27,646 | 88% | 1.3 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Lodging | Cooling Central | ROB | ton | 270,907 | 23% | 21.5 | 15 | \$27,646 | 88% | 2.0 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Lodging | Cooling Central | Early | ton | 449,925 | 23% | 35.3 | 15 | \$302,924 | 88% | 0.3 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Lodging | Cooling Central | New | ton | 407,215 | 14% | 20.4 | 15 | \$115,432 | 88% | 0.5 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Lodging | Cooling Central | ROB | ton | 449,925 | 23% | 35.3 | 15 | \$115,432 | 88% | 0.8 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Lodging | Cooling Central | Early | ton | 539,911 | 23% | 42.4 | 15 | \$350,154 | 88% | 0.3 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Lodging | Cooling Central | New | ton | 488,657 | 14% | 24.6 | 15 | \$120,406 | 88% | 0.5 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Lodging | Cooling Central | ROB | ton | 539,911 | 23% | 42.4 | 15 | \$120,406 | 88% | 0.9 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Lodging | Cooling Central | Early | ton | 119,676 | 29% | 12.2 | 15 | \$83,632 | 88% | 0.4 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Lodging | Cooling Central | New | ton | 92,927 | 8.9% | 2.9 | 15 | \$40,211 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Lodging | Cooling Central | ROB | ton | 119,676 | 29% | 12.2 | 15 | \$40,211 | 88% | 0.8 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Lodging | Cooling Central | Early | ton | 205,633 | 35% | 24.9 | 15 | \$132,173 | 88% | 0.5 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Lodging | Cooling Central | New | ton | 153,367 | 13% | 6.7 | 15 | \$39,556 | 88% | 0.4 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Lodging | Cooling Central | ROB | ton | 153,367 | 13% | 6.7 | 15 | \$39,556 | 88% | 0.4 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Lodging | Cooling Central | Early | ton | 343,320 | 39% | 46.7 | 15 | \$187,029 | 88% | 0.6 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Lodging | Cooling Central | New | ton | 244,782 | 15% | 12.4 | 15 | \$33,554 | 88% | 1.0 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Lodging | Cooling Central | ROB | ton | 343,320 | 39% | 46.7 | 15 | \$33,554 | 88% | 3.6 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Lodging | Cooling Central | Early | ton | 60,076 | 30% | 6.2 | 15 | \$32,398 | 88% | 0.5 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Lodging | Cooling Central | New | ton | 47,597 | 11% | 1.8 | 15 | \$7,188 | 88% | 0.7 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Lodging | Cooling Central | ROB | ton | 60,076 | 30% | 6.2 | 15 | \$7,188 | 88% | 2.2 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Lodging | Cooling Central | Existing | building | 5,070 | 3.5% | 0.04 | 10 | \$2,396 | 81% | 0.0 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Lodging | Cooling Central | New | building | 5,070 | 3.5% | 0.04 | 10 | \$2,396 | 81% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|---|---------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Lodging | Cooling Central | Existing | building | 5,070 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.2 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Lodging | Cooling Central | New | building | 5,070 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.3 |
| FE-Met Ed | Re-Commissioning (Existing Construction) | No Re-Commissioning | Lodging | Cooling Central | Existing | building | 5,070 | 16% | 0.2 | 5 | \$12,530 | 86% | 0.0 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Lodging | Cooling Central | Existing | building | 5,070 | 8.0% | 0.08 | 15 | \$6,019 | 26% | 0.1 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Lodging | Cooling Central | New | building | 5,070 | 0.2% | 0.00 | 15 | \$4,617 | 94% | 0.0 |
| FE-Met Ed | <65k BTU/hr 14 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Lodging | Cooling Unitary | Early | ton | 4,657 | 16% | 0.4 | 15 | \$1,545 | 29% | 0.5 |
| FE-Met Ed | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Lodging | Cooling Unitary | New | ton | 4,218 | 7.1% | 0.2 | 15 | \$339 | 29% | 0.9 |
| FE-Met Ed | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Lodging | Cooling Unitary | ROB | ton | 4,218 | 7.1% | 0.2 | 15 | \$339 | 29% | 0.9 |
| FE-Met Ed | <65k BTU/hr 15 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Lodging | Cooling Unitary | Early | ton | 4,657 | 22% | 0.5 | 15 | \$1,821 | 30% | 0.6 |
| FE-Met Ed | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Lodging | Cooling Unitary | New | ton | 4,218 | 13% | 0.3 | 15 | \$714 | 30% | 0.8 |
| FE-Met Ed | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Lodging | Cooling Unitary | ROB | ton | 4,218 | 13% | 0.3 | 15 | \$714 | 30% | 0.8 |
| FE-Met Ed | <65k BTU/hr 16 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Lodging | Cooling Unitary | Early | ton | 4,657 | 26% | 0.6 | 15 | \$2,098 | 31% | 0.6 |
| FE-Met Ed | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Lodging | Cooling Unitary | New | ton | 4,218 | 19% | 0.4 | 15 | \$1,089 | 31% | 0.8 |
| FE-Met Ed | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Lodging | Cooling Unitary | ROB | ton | 4,218 | 19% | 0.4 | 15 | \$1,089 | 31% | 0.8 |
| FE-Met Ed | >760k min 10.2 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Lodging | Cooling Unitary | Early | ton | 117,817 | 3.7% | 2.2 | 15 | \$68,066 | 56% | 0.1 |
| FE-Met Ed | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Lodging | Cooling Unitary | New | ton | 119,328 | 4.9% | 3.0 | 15 | \$6,231 | 56% | 1.0 |
| FE-Met Ed | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Lodging | Cooling Unitary | ROB | ton | 119,328 | 4.9% | 3.0 | 15 | \$6,231 | 56% | 1.0 |
| FE-Met Ed | 135-240k min 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Lodging | Cooling Unitary | Early | ton | 28,989 | 18% | 2.7 | 15 | \$18,135 | 79% | 0.3 |
| FE-Met Ed | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Lodging | Cooling Unitary | New | ton | 26,370 | 10.0% | 1.4 | 15 | \$1,948 | 79% | 1.4 |
| FE-Met Ed | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Lodging | Cooling Unitary | ROB | ton | 26,370 | 10.0% | 1.4 | 15 | \$1,948 | 79% | 1.4 |
| FE-Met Ed | 240k-760k min 11 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Lodging | Cooling Unitary | Early | ton | 77,511 | 9.0% | 3.6 | 15 | \$44,809 | 66% | 0.2 |
| FE-Met Ed | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Lodging | Cooling Unitary | New | ton | 77,704 | 9.3% | 3.7 | 15 | \$4,796 | 66% | 1.6 |
| FE-Met Ed | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Lodging | Cooling Unitary | ROB | ton | 77,704 | 9.3% | 3.7 | 15 | \$4,796 | 66% | 1.6 |
| FE-Met Ed | 65k-135k BTU/hr 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Lodging | Cooling Unitary | Early | ton | 17,089 | 17% | 1.5 | 15 | \$10,946 | 86% | 0.3 |
| FE-Met Ed | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Lodging | Cooling Unitary | New | ton | 15,230 | 6.7% | 0.5 | 15 | \$1,392 | 86% | 0.8 |
| FE-Met Ed | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Lodging | Cooling Unitary | ROB | ton | 15,230 | 6.7% | 0.5 | 15 | \$1,392 | 86% | 0.8 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Lodging | Cooling Unitary | Existing | building | 60,481 | 7.1% | 0.07 | 6 | \$17,641 | 82% | 0.1 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Lodging | Cooling Unitary | New | building | 60,481 | 7.1% | 0.07 | 6 | \$17,641 | 82% | 0.1 |
| FE-Met Ed | Adding window shade film | No shade film | Lodging | Cooling Unitary | Existing | building | 60,481 | 1.3% | 0.4 | 10 | \$736 | 12% | 0.8 |
| FE-Met Ed | Adding window shade film | No shade film | Lodging | Cooling Unitary | New | building | 60,481 | 1.3% | 0.4 | 10 | \$736 | 13% | 0.8 |
| FE-Met Ed | Adding window shade screen | No shade screen | Lodging | Cooling Unitary | Existing | building | 60,481 | 1.1% | 0.01 | 10 | \$285 | 12% | 0.9 |
| FE-Met Ed | Adding window shade screen | No shade screen | Lodging | Cooling Unitary | New | building | 60,481 | 1.1% | 0.01 | 10 | \$285 | 13% | 0.9 |
| FE-Met Ed | Automated control system | Manual Controls | Lodging | Cooling Unitary | Existing | building | 60,481 | 17% | 0.2 | 15 | \$66,213 | 51% | 0.1 |
| FE-Met Ed | Automated control system | Manual Controls | Lodging | Cooling Unitary | New | building | 60,481 | 17% | 0.2 | 15 | \$66,213 | 94% | 0.1 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Lodging | Cooling Unitary | Existing | building | 60,481 | 3.4% | 0.03 | 15 | \$23,552 | 71% | 0.1 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Lodging | Cooling Unitary | New | building | 60,481 | 1.1% | 0.01 | 15 | \$22,387 | 94% | 0.0 |
| FE-Met Ed | Commercial energy recovery ventilation systems | No Commercial Recovery System | Lodging | Cooling Unitary | Existing | building | 60,481 | 16% | 0.2 | 14 | \$54,654 | 71% | 0.1 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Lodging | Cooling Unitary | Existing | building | 60,481 | 1.4% | 0.04 | 15 | \$480 | 20% | 1.1 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Lodging | Cooling Unitary | New | building | 60,481 | 1.4% | 0.04 | 15 | \$480 | 10% | 1.1 |
| FE-Met Ed | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Lodging | Cooling Unitary | Existing | building | 33,265 | 13% | 0.1 | 1 | \$319 | 73% | 0.7 |
| FE-Met Ed | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Lodging | Cooling Unitary | New | building | 33,265 | 13% | 0.1 | 1 | \$319 | 73% | 0.7 |
| FE-Met Ed | ECM Motors for split systems | Std Shaded Pole Motor | Lodging | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 3.0 |
| FE-Met Ed | ECM Motors for split systems | Std Shaded Pole Motor | Lodging | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 3.0 |
| FE-Met Ed | Facility Commissioning | No Facility Commissioning | Lodging | Cooling Unitary | New | building | 60,481 | 16% | 0.2 | 10 | \$982 | 89% | 4.1 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Lodging | Cooling Unitary | Existing | building | 60,481 | 7.1% | 0.07 | 15 | \$268,281 | 25% | 0.0 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Lodging | Cooling Unitary | New | building | 60,481 | 7.1% | 0.07 | 15 | \$268,281 | 35% | 0.0 |
| FE-Met Ed | Hi Eff HVAC System Design | No HVAC Design | Lodging | Cooling Unitary | New | building | 60,481 | 7.3% | 0.07 | 10 | \$6,768 | 51% | 0.3 |
| FE-Met Ed | Hotel Occupancy Sensor | HVAC system w/out Occupancy Sensors | Lodging | Cooling Unitary | Existing | building | 60,481 | 3.5% | 0.04 | 15 | \$11,644 | 89% | 0.1 |
| FE-Met Ed | Hotel Occupancy Sensor | HVAC system w/out Occupancy Sensors | Lodging | Cooling Unitary | New | building | 60,481 | 3.5% | 0.04 | 15 | \$11,644 | 94% | 0.1 |
| FE-Met Ed | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Lodging | Cooling Unitary | Existing | building | 60,481 | 5.0% | 0.05 | 5 | \$225 | 59% | 3.1 |
| FE-Met Ed | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Lodging | Cooling Unitary | Existing | building | 60,481 | 0.2% | 0.04 | 5 | \$225 | 51% | 0.2 |
| FE-Met Ed | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Lodging | Cooling Unitary | New | building | 60,481 | 0.2% | 0.04 | 5 | \$135 | 51% | 0.3 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Lodging | Cooling Unitary | Existing | building | 60,481 | 3.5% | 0.04 | 10 | \$2,575 | 86% | 0.3 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Lodging | Cooling Unitary | New | building | 60,481 | 3.5% | 0.04 | 10 | \$2,575 | 86% | 0.3 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) | Lodging | Cooling Unitary | Existing | building | 60,481 | 2.0% | 0.02 | 11 | \$286 | 49% | 1.9 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Lodging | Cooling Unitary | New | building | 60,481 | 1.7% | 0.02 | 11 | \$146 | 49% | 3.1 |
| FE-Met Ed | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Lodging | Cooling Unitary | Early | unit | 473 | 19% | 0.2 | 15 | \$849 | 85% | 0.2 |
| FE-Met Ed | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Lodging | Cooling Unitary | New | unit | 478 | 20% | 0.2 | 15 | \$356 | 85% | 0.6 |
| FE-Met Ed | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Lodging | Cooling Unitary | ROB | unit | 478 | 20% | 0.2 | 15 | \$356 | 85% | 0.6 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|--|--|---------|-----------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Re-Commissioning (Existing Construction) | No Re-Commissioning | Lodging | Cooling Unitary | Existing | building | 60,481 | 16% | 0.2 | 5 | \$12,530 | 86% | 0.2 |
| FE-Met Ed | Room AC (w/ louvered sides) | Existing efficiency Room AC in Pennsylvania (2000 Federal Standards) | Lodging | Cooling Unitary | Early | ton | 2,000 | 13% | 0.09 | 9 | \$348 | 82% | 0.5 |
| FE-Met Ed | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Lodging | Cooling Unitary | New | ton | 1,813 | 4.5% | 0.03 | 9 | \$17 | 82% | 2.8 |
| FE-Met Ed | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Lodging | Cooling Unitary | ROB | ton | 1,813 | 4.5% | 0.03 | 9 | \$17 | 82% | 2.8 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Lodging | Cooling Unitary | Existing | building | 60,481 | 8.2% | 0.08 | 15 | \$6,019 | 26% | 0.5 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Lodging | Cooling Unitary | New | building | 60,481 | 0.2% | 0.00 | 15 | \$4,617 | 94% | 0.0 |
| FE-Met Ed | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Lodging | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 1.2 |
| FE-Met Ed | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Lodging | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.6 |
| FE-Met Ed | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Lodging | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.6 |
| FE-Met Ed | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Lodging | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 0% | 0.2 |
| FE-Met Ed | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Lodging | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-Met Ed | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Lodging | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-Met Ed | LED exterior lighting | 250 Watt Incandescent | Lodging | Ext. Lighting | ROB | measure | 529 | 83% | 0.07 | 15 | \$104 | 89% | 3.0 |
| FE-Met Ed | LED exterior lighting | 250 Watt Incandescent | Lodging | Ext. Lighting | ROB | measure | 529 | 83% | 0.07 | 15 | \$104 | 89% | 3.0 |
| FE-Met Ed | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Lodging | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 75% | 0.3 |
| FE-Met Ed | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Lodging | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 75% | 0.2 |
| FE-Met Ed | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Lodging | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.9 |
| FE-Met Ed | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Lodging | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.2 |
| FE-Met Ed | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Lodging | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.9 |
| FE-Met Ed | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Lodging | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.2 |
| FE-Met Ed | Photocell Controls (Outdoor) | Lighting w/ No Controls | Lodging | Ext. Lighting | Existing | building | 254 | 28% | 0.3 | 8 | \$4,117 | 88% | 0.0 |
| FE-Met Ed | Photocell Controls (Outdoor) | Lighting w/ No Controls | Lodging | Ext. Lighting | New | building | 254 | 28% | 0.3 | 8 | \$4,117 | 0% | 0.0 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Lodging | Heat Pump | Existing | building | 5,457 | 6.9% | 0.07 | 6 | \$17,641 | 82% | 0.0 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Lodging | Heat Pump | New | building | 5,457 | 6.9% | 0.07 | 6 | \$17,641 | 82% | 0.0 |
| FE-Met Ed | Adding window shade film | No shade film | Lodging | Heat Pump | Existing | building | 5,457 | 3.9% | 0.4 | 10 | \$66 | 12% | 5.2 |
| FE-Met Ed | Adding window shade film | No shade film | Lodging | Heat Pump | New | building | 5,457 | 3.9% | 0.4 | 10 | \$66 | 12% | 5.2 |
| FE-Met Ed | Adding window shade screen | No shade screen | Lodging | Heat Pump | Existing | building | 5,457 | 0.3% | 0.01 | 10 | \$8.6 | 12% | 1.6 |
| FE-Met Ed | Adding window shade screen | No shade screen | Lodging | Heat Pump | New | building | 5,457 | 0.3% | 0.01 | 10 | \$8.6 | 12% | 1.6 |
| FE-Met Ed | Automated control system | Manual Controls | Lodging | Heat Pump | Existing | building | 5,457 | 17% | 0.2 | 15 | \$5,975 | 51% | 0.1 |
| FE-Met Ed | Automated control system | Manual Controls | Lodging | Heat Pump | New | building | 5,457 | 17% | 0.2 | 15 | \$5,975 | 94% | 0.1 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Lodging | Heat Pump | Existing | building | 5,457 | 3.3% | 0.03 | 15 | \$23,552 | 71% | 0.0 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Lodging | Heat Pump | New | building | 5,457 | 1.1% | 0.01 | 15 | \$22,387 | 94% | 0.0 |
| FE-Met Ed | Commercial energy recovery ventilation systems | No Commercial Recovery System | Lodging | Heat Pump | Existing | building | 5,457 | 16% | 0.2 | 14 | \$336,173 | 71% | 0.0 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Lodging | Heat Pump | Existing | building | 5,457 | 4.0% | 0.04 | 15 | \$43 | 12% | 3.6 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Lodging | Heat Pump | New | building | 5,457 | 4.0% | 0.04 | 15 | \$43 | 6% | 3.6 |
| FE-Met Ed | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Lodging | Heat Pump | Early | heat pump | 4,660 | 12% | 0.05 | 15 | \$4,070 | 83% | 0.1 |
| FE-Met Ed | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Lodging | Heat Pump | New | heat pump | 4,475 | 7.9% | 0.03 | 15 | \$1,097 | 83% | 0.2 |
| FE-Met Ed | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Lodging | Heat Pump | ROB | heat pump | 4,475 | 7.9% | 0.03 | 15 | \$1,097 | 83% | 0.2 |
| FE-Met Ed | Facility Commissioning | No Facility Commissioning | Lodging | Heat Pump | New | building | 5,457 | 16% | 0.2 | 10 | \$2,317 | 89% | 0.2 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Lodging | Heat Pump | Existing | building | 5,457 | 7.0% | 0.07 | 15 | \$24,208 | 25% | 0.0 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Lodging | Heat Pump | New | building | 5,457 | 7.0% | 0.07 | 15 | \$24,208 | 35% | 0.0 |
| FE-Met Ed | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Lodging | Heat Pump | Early | heat pump | 47,434 | 15% | 0.6 | 15 | \$91,117 | 19% | 0.0 |
| FE-Met Ed | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Lodging | Heat Pump | New | heat pump | 45,989 | 12% | 0.5 | 15 | \$33,927 | 19% | 0.1 |
| FE-Met Ed | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Lodging | Heat Pump | ROB | heat pump | 45,989 | 12% | 0.5 | 15 | \$33,927 | 19% | 0.1 |
| FE-Met Ed | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Lodging | Heat Pump | Early | heat pump | 47,434 | 15% | 0.6 | 15 | \$58,356 | 19% | 0.1 |
| FE-Met Ed | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Lodging | Heat Pump | New | heat pump | 45,989 | 12% | 0.5 | 15 | \$1,167 | 19% | 2.9 |
| FE-Met Ed | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Lodging | Heat Pump | ROB | heat pump | 45,989 | 12% | 0.5 | 15 | \$1,167 | 19% | 2.9 |
| FE-Met Ed | Hi Eff HVAC System Design | No HVAC Design | Lodging | Heat Pump | New | building | 5,457 | 7.3% | 0.07 | 10 | \$66,318 | 51% | 0.0 |
| FE-Met Ed | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Lodging | Heat Pump | Early | heat pump | 12,425 | 16% | 0.2 | 12 | \$4,298 | 81% | 0.2 |
| FE-Met Ed | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Lodging | Heat Pump | New | heat pump | 11,935 | 12% | 0.1 | 12 | \$852 | 81% | 0.9 |
| FE-Met Ed | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Lodging | Heat Pump | ROB | heat pump | 11,935 | 12% | 0.1 | 12 | \$852 | 81% | 0.9 |
| FE-Met Ed | Hotel Occupancy Sensor | HVAC system w/out Occupancy Sensors | Lodging | Heat Pump | Existing | building | 5,457 | 3.5% | 0.04 | 15 | \$11,644 | 89% | 0.0 |
| FE-Met Ed | Hotel Occupancy Sensor | HVAC system w/out Occupancy Sensors | Lodging | Heat Pump | New | building | 5,457 | 3.5% | 0.04 | 15 | \$11,644 | 94% | 0.0 |
| FE-Met Ed | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Lodging | Heat Pump | Existing | building | 5,457 | 5.0% | 0.02 | 5 | \$90 | 51% | 0.7 |
| FE-Met Ed | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Lodging | Heat Pump | New | building | 5,457 | 5.0% | 0.02 | 5 | \$90 | 51% | 0.7 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Lodging | Heat Pump | Existing | building | 5,457 | 3.5% | 0.04 | 10 | \$2,292 | 81% | 0.0 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Lodging | Heat Pump | New | building | 5,457 | 3.5% | 0.04 | 10 | \$2,292 | 81% | 0.0 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Lodging | Heat Pump | Existing | building | 5,457 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.3 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Lodging | Heat Pump | New | building | 5,457 | 2.1% | 0.02 | 11 | \$146 | 49% | 0.4 |
| FE-Met Ed | Re-Commissioning (Existing Construction) | No Re-Commissioning | Lodging | Heat Pump | Existing | building | 5,457 | 16% | 0.2 | 5 | \$12,530 | 86% | 0.0 |
| FE-Met Ed | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Lodging | Heat Pump | New | measure | 763,332 | 2.0% | 1.7 | 13 | \$96,095 | 43% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|---|---------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Lodging | Heat Pump | ROB | measure | 763,332 | 2.0% | 1.7 | 13 | \$96,095 | 43% | 0.1 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Lodging | Heat Pump | Existing | building | 5,457 | 8.0% | 0.08 | 15 | \$6,019 | 26% | 0.1 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Lodging | Heat Pump | New | building | 5,457 | 0.2% | 0.00 | 15 | \$4,617 | 94% | 0.0 |
| FE-Met Ed | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Lodging | Heat Pump | Early | heat pump | 20,230 | 37% | 0.6 | 15 | \$35,347 | 28% | 0.1 |
| FE-Met Ed | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Lodging | Heat Pump | New | heat pump | 19,409 | 34% | 0.6 | 15 | \$15,739 | 28% | 0.3 |
| FE-Met Ed | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Lodging | Heat Pump | ROB | heat pump | 19,409 | 34% | 0.6 | 15 | \$15,739 | 28% | 0.3 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Lodging | High Bay Lighting | Early | Fixture | 754 | 9.6% | 0.01 | 13 | \$850 | 39% | 0.1 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Lodging | High Bay Lighting | Early | Fixture | 753 | 9.5% | 0.01 | 13 | \$850 | 28% | 0.1 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Lodging | High Bay Lighting | Early | Fixture | 1,162 | 41% | 0.07 | 13 | \$850 | 36% | 0.4 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Lodging | High Bay Lighting | New | Fixture | 573 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Lodging | High Bay Lighting | New | Fixture | 533 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Lodging | High Bay Lighting | New | Fixture | 883 | 41% | 0.05 | 13 | \$397 | 36% | 0.6 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Lodging | High Bay Lighting | ROB | Fixture | 754 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Lodging | High Bay Lighting | ROB | Fixture | 701 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Lodging | High Bay Lighting | ROB | Fixture | 1,162 | 41% | 0.07 | 13 | \$397 | 36% | 0.8 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Lodging | High Bay Lighting | Early | Fixture | 1,463 | 19% | 0.04 | 13 | \$851 | 38% | 0.2 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Lodging | High Bay Lighting | Early | Fixture | 1,481 | 20% | 0.04 | 13 | \$851 | 38% | 0.2 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | Early | Fixture | 4,309 | 73% | 0.5 | 13 | \$851 | 38% | 2.3 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Lodging | High Bay Lighting | New | Fixture | 1,112 | 19% | 0.03 | 13 | \$372 | 38% | 0.4 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | New | Fixture | 3,275 | 73% | 0.4 | 13 | \$383 | 38% | 3.9 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Lodging | High Bay Lighting | ROB | Fixture | 1,463 | 19% | 0.04 | 13 | \$372 | 38% | 0.5 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | ROB | Fixture | 4,309 | 73% | 0.5 | 13 | \$383 | 38% | 5.1 |
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Lodging | High Bay Lighting | Early | Fixture | 1,463 | 25% | 0.05 | 13 | \$554 | 29% | 0.4 |
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Lodging | High Bay Lighting | Early | Fixture | 1,436 | 23% | 0.05 | 13 | \$554 | 28% | 0.4 |
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | Early | Fixture | 4,309 | 74% | 0.5 | 13 | \$554 | 36% | 3.6 |
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Lodging | High Bay Lighting | New | Fixture | 1,112 | 25% | 0.04 | 13 | \$75 | 29% | 2.3 |
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | New | Fixture | 3,275 | 74% | 0.4 | 13 | \$86 | 36% | 17.6 |
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Lodging | High Bay Lighting | ROB | Fixture | 1,463 | 25% | 0.05 | 13 | \$75 | 29% | 3.0 |
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | ROB | Fixture | 4,309 | 74% | 0.5 | 13 | \$86 | 36% | 23.2 |
| FE-Met Ed | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Lodging | High Bay Lighting | Early | Fixture | 381 | 0.2% | 0.00 | 13 | \$835 | 38% | 0.0 |
| FE-Met Ed | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Lodging | High Bay Lighting | Early | Fixture | 822 | 54% | 0.07 | 13 | \$835 | 38% | 0.3 |
| FE-Met Ed | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Lodging | High Bay Lighting | New | Fixture | 625 | 54% | 0.05 | 13 | \$382 | 38% | 0.5 |
| FE-Met Ed | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Lodging | High Bay Lighting | ROB | Fixture | 822 | 54% | 0.07 | 13 | \$382 | 38% | 0.7 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Lodging | High Bay Lighting | Early | Fixture | 1,864 | 18% | 0.05 | 13 | \$487 | 25% | 0.4 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Lodging | High Bay Lighting | Early | Fixture | 1,949 | 22% | 0.06 | 13 | \$487 | 28% | 0.5 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | Early | Fixture | 4,309 | 65% | 0.4 | 13 | \$487 | 36% | 3.6 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Lodging | High Bay Lighting | New | Fixture | 1,417 | 18% | 0.04 | 13 | \$16 | 25% | 9.9 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | New | Fixture | 3,275 | 65% | 0.3 | 13 | \$18 | 36% | 71.4 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Lodging | High Bay Lighting | ROB | Fixture | 1,864 | 18% | 0.05 | 13 | \$16 | 25% | 13.0 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | ROB | Fixture | 4,309 | 65% | 0.4 | 13 | \$18 | 36% | 93.9 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Lodging | High Bay Lighting | Early | Fixture | 1,864 | 1.5% | 0.00 | 13 | \$557 | 19% | 0.0 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Lodging | High Bay Lighting | Early | Fixture | 1,919 | 4.3% | 0.01 | 13 | \$557 | 19% | 0.1 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | Early | Fixture | 4,309 | 57% | 0.4 | 13 | \$557 | 19% | 2.8 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Lodging | High Bay Lighting | New | Fixture | 1,417 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.2 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | New | Fixture | 3,275 | 57% | 0.3 | 13 | \$88 | 19% | 13.2 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Lodging | High Bay Lighting | ROB | Fixture | 1,864 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.2 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | ROB | Fixture | 4,309 | 57% | 0.4 | 13 | \$88 | 19% | 17.4 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Lodging | High Bay Lighting | Early | Fixture | 791 | 29% | 0.02 | 13 | \$492 | 71% | 0.3 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Lodging | High Bay Lighting | Early | Fixture | 662 | 15% | 0.01 | 13 | \$492 | 95% | 0.1 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Lodging | High Bay Lighting | Early | Fixture | 983 | 43% | 0.04 | 13 | \$492 | 95% | 0.5 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Lodging | High Bay Lighting | Early | Fixture | 911 | 38% | 0.04 | 13 | \$492 | 95% | 0.4 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Lodging | High Bay Lighting | New | Fixture | 503 | 15% | 0.01 | 13 | \$25 | 95% | 1.8 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Lodging | High Bay Lighting | New | Fixture | 747 | 43% | 0.03 | 13 | \$51 | 95% | 3.6 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Lodging | High Bay Lighting | ROB | Fixture | 662 | 15% | 0.01 | 13 | \$25 | 95% | 2.3 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Lodging | High Bay Lighting | ROB | Fixture | 983 | 43% | 0.04 | 13 | \$51 | 95% | 4.8 |
| FE-Met Ed | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Lodging | High Bay Lighting | Early | lamp | 147 | 16% | 0.00 | 7 | \$7.7 | 99% | 1.2 |
| FE-Met Ed | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Lodging | High Bay Lighting | New | lamp | 87 | 13% | 0.00 | 7 | \$1.6 | 91% | 2.7 |
| FE-Met Ed | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Lodging | High Bay Lighting | ROB | lamp | 141 | 13% | 0.00 | 7 | \$1.6 | 91% | 4.4 |
| FE-Met Ed | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Lodging | High Bay Lighting | Early | Fixture | 4,409 | 23% | 0.2 | 13 | \$613 | 5% | 1.0 |
| FE-Met Ed | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Lodging | High Bay Lighting | Early | Fixture | 3,464 | 1.6% | 0.01 | 13 | \$613 | 28% | 0.1 |
| FE-Met Ed | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | Early | Fixture | 8,618 | 60% | 0.8 | 13 | \$613 | 18% | 5.3 |
| FE-Met Ed | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Lodging | High Bay Lighting | New | Fixture | 3,351 | 23% | 0.1 | 13 | \$96 | 5% | 4.9 |
| FE-Met Ed | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Lodging | High Bay Lighting | ROB | Fixture | 4,409 | 23% | 0.2 | 13 | \$96 | 5% | 6.5 |
| FE-Met Ed | Auto Off Time Switch | Lighting w/ No Controls | Lodging | High Bay Lighting | Existing | building | 586 | 24% | 0.2 | 8 | \$837 | 13% | 0.2 |
| FE-Met Ed | Auto Off Time Switch | Lighting w/ No Controls | Lodging | High Bay Lighting | New | building | 586 | 6.9% | 0.07 | 8 | \$837 | 0% | 0.1 |
| FE-Met Ed | Central Lighting Control System | Lighting w/ No Controls | Lodging | High Bay Lighting | Existing | building | 586 | 38% | 0.4 | 8 | \$837 | 13% | 0.4 |
| FE-Met Ed | Central Lighting Control System | Lighting w/ No Controls | Lodging | High Bay Lighting | New | building | 586 | 14% | 0.1 | 8 | \$837 | 13% | 0.1 |
| FE-Met Ed | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Lodging | High Bay Lighting | New | building | 586 | 10% | 0.1 | 15 | \$45,527 | 32% | 0.0 |
| FE-Met Ed | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Lodging | High Bay Lighting | New | building | 586 | 15% | 0.2 | 15 | \$113,817 | 32% | 0.0 |
| FE-Met Ed | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Lodging | High Bay Lighting | New | building | 586 | 30% | 0.3 | 15 | \$163,138 | 32% | 0.0 |
| FE-Met Ed | Indoor Daylight Sensors | Lighting w/ No Controls | Lodging | High Bay Lighting | Existing | building | 586 | 28% | 0.3 | 8 | \$4,117 | 13% | 0.1 |
| FE-Met Ed | Indoor Daylight Sensors | Lighting w/ No Controls | Lodging | High Bay Lighting | New | building | 586 | 4.1% | 0.04 | 8 | \$4,117 | 0% | 0.0 |
| FE-Met Ed | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Lodging | High Bay Lighting | Early | Fixture | 4,409 | 92% | 0.6 | 13 | \$1,916 | 95% | 1.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|--|---------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | Early | Fixture | 8,618 | 96% | 1.2 | 13 | \$1,916 | 95% | 2.7 |
| FE-Met Ed | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Lodging | High Bay Lighting | New | Fixture | 3,351 | 92% | 0.5 | 13 | \$1,468 | 95% | 1.3 |
| FE-Met Ed | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | New | Fixture | 6,550 | 96% | 0.9 | 13 | \$1,149 | 95% | 3.4 |
| FE-Met Ed | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Lodging | High Bay Lighting | ROB | Fixture | 4,409 | 92% | 0.6 | 13 | \$1,468 | 95% | 1.7 |
| FE-Met Ed | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | ROB | Fixture | 8,618 | 96% | 1.2 | 13 | \$1,149 | 95% | 4.5 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Lodging | High Bay Lighting | Early | Fixture | 1,463 | 67% | 0.1 | 13 | \$960 | 95% | 0.6 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Lodging | High Bay Lighting | Early | Fixture | 4,309 | 89% | 0.6 | 13 | \$960 | 95% | 2.5 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Lodging | High Bay Lighting | Early | Fixture | 1,183 | 59% | 0.1 | 13 | \$960 | 95% | 0.4 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Lodging | High Bay Lighting | New | Fixture | 1,112 | 67% | 0.1 | 13 | \$480 | 95% | 1.0 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Lodging | High Bay Lighting | New | Fixture | 3,275 | 89% | 0.4 | 13 | \$491 | 95% | 3.7 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Lodging | High Bay Lighting | New | Fixture | 899 | 59% | 0.08 | 13 | \$406 | 95% | 0.8 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Lodging | High Bay Lighting | ROB | Fixture | 1,463 | 67% | 0.1 | 13 | \$480 | 95% | 1.3 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Lodging | High Bay Lighting | ROB | Fixture | 4,309 | 89% | 0.6 | 13 | \$491 | 95% | 4.8 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Lodging | High Bay Lighting | ROB | Fixture | 1,183 | 59% | 0.1 | 13 | \$406 | 95% | 1.1 |
| FE-Met Ed | Occupancy Sensor | Lighting w/ No Controls | Lodging | High Bay Lighting | Existing | building | 586 | 24% | 0.2 | 8 | \$1,260 | 12% | 0.2 |
| FE-Met Ed | Occupancy Sensor | Lighting w/ No Controls | Lodging | High Bay Lighting | New | building | 586 | 6.9% | 0.07 | 8 | \$1,260 | 0% | 0.0 |
| FE-Met Ed | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Lodging | High Bay Lighting | Existing | building | 586 | 28% | 0.3 | 8 | \$4,117 | 12% | 0.1 |
| FE-Met Ed | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Lodging | High Bay Lighting | New | building | 586 | 4.1% | 0.04 | 8 | \$4,117 | 0% | 0.0 |
| FE-Met Ed | Time Clock Control | Lighting w/ No Controls | Lodging | High Bay Lighting | Existing | building | 586 | 28% | 0.3 | 8 | \$837 | 13% | 0.3 |
| FE-Met Ed | Time Clock Control | Lighting w/ No Controls | Lodging | High Bay Lighting | New | building | 586 | 4.0% | 0.04 | 8 | \$837 | 0% | 0.0 |
| FE-Met Ed | Auto Off Time Switch | Lighting w/ No Controls | Lodging | Lin. Fluor. Lighting | Existing | building | 32,835 | 24% | 0.2 | 8 | \$837 | 13% | 3.3 |
| FE-Met Ed | Auto Off Time Switch | Lighting w/ No Controls | Lodging | Lin. Fluor. Lighting | New | building | 32,835 | 7.0% | 0.07 | 8 | \$837 | 0% | 0.9 |
| FE-Met Ed | Central Lighting Control System | Lighting w/ No Controls | Lodging | Lin. Fluor. Lighting | Existing | building | 32,835 | 38% | 0.4 | 8 | \$837 | 12% | 5.2 |
| FE-Met Ed | Central Lighting Control System | Lighting w/ No Controls | Lodging | Lin. Fluor. Lighting | New | building | 32,835 | 14% | 0.1 | 8 | \$837 | 12% | 1.9 |
| FE-Met Ed | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Lodging | Lin. Fluor. Lighting | New | building | 32,835 | 10% | 0.1 | 15 | \$45,527 | 32% | 0.0 |
| FE-Met Ed | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Lodging | Lin. Fluor. Lighting | New | building | 32,835 | 15% | 0.2 | 15 | \$113,817 | 32% | 0.0 |
| FE-Met Ed | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Lodging | Lin. Fluor. Lighting | New | building | 32,835 | 30% | 0.3 | 15 | \$163,138 | 32% | 0.0 |
| FE-Met Ed | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Lodging | Lin. Fluor. Lighting | Early | Lamp | 295 | 38% | 0.02 | 7 | \$7.3 | 94% | 5.9 |
| FE-Met Ed | Indoor Daylight Sensors | Lighting w/ No Controls | Lodging | Lin. Fluor. Lighting | Existing | building | 32,835 | 28% | 0.3 | 8 | \$4,117 | 13% | 0.8 |
| FE-Met Ed | Indoor Daylight Sensors | Lighting w/ No Controls | Lodging | Lin. Fluor. Lighting | New | building | 32,835 | 4.1% | 0.04 | 8 | \$4,117 | 0% | 0.1 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | Early | Lamp | 88 | 19% | 0.00 | 14 | \$35 | 94% | 0.3 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 40W T12 Lamp, Magnetic Ballast | Lodging | Lin. Fluor. Lighting | Early | Lamp | 194 | 63% | 0.02 | 14 | \$35 | 94% | 2.3 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | Early | Lamp | 109 | 34% | 0.01 | 14 | \$35 | 94% | 0.7 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | Early | Lamp | 106 | 32% | 0.01 | 14 | \$35 | 94% | 0.6 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | New | Lamp | 67 | 19% | 0.00 | 14 | \$28 | 94% | 0.3 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | New | Lamp | 80 | 32% | 0.00 | 14 | \$29 | 94% | 0.6 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | New | Lamp | 83 | 34% | 0.00 | 14 | \$22 | 94% | 0.9 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | New | Lamp | 80 | 32% | 0.00 | 14 | \$29 | 94% | 0.6 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | ROB | Lamp | 88 | 19% | 0.00 | 14 | \$28 | 94% | 0.4 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | ROB | Lamp | 106 | 32% | 0.01 | 14 | \$29 | 94% | 0.8 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | ROB | Lamp | 109 | 34% | 0.01 | 14 | \$22 | 94% | 1.2 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | ROB | Lamp | 106 | 32% | 0.01 | 14 | \$29 | 94% | 0.8 |
| FE-Met Ed | Occupancy Sensor | Lighting w/ No Controls | Lodging | Lin. Fluor. Lighting | Existing | building | 32,835 | 24% | 0.2 | 8 | \$1,260 | 13% | 2.2 |
| FE-Met Ed | Occupancy Sensor | Lighting w/ No Controls | Lodging | Lin. Fluor. Lighting | New | building | 32,835 | 7.0% | 0.07 | 8 | \$1,260 | 0% | 0.6 |
| FE-Met Ed | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Lodging | Lin. Fluor. Lighting | Existing | building | 32,835 | 28% | 0.3 | 8 | \$4,117 | 12% | 0.8 |
| FE-Met Ed | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Lodging | Lin. Fluor. Lighting | New | building | 32,835 | 4.1% | 0.04 | 8 | \$4,117 | 0% | 0.1 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 40W T12 w/ Magnetic Ballast | Lodging | Lin. Fluor. Lighting | Early | Lamp | 295 | 54% | 0.03 | 7 | \$9.1 | 94% | 6.8 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | Early | Lamp | 189 | 28% | 0.01 | 7 | \$9.1 | 24% | 2.3 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | Early | Lamp | 183 | 26% | 0.01 | 7 | \$9.1 | 94% | 2.0 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | New | Lamp | 139 | 26% | 0.01 | 7 | \$2.5 | 94% | 5.5 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | New | Lamp | 139 | 26% | 0.01 | 7 | \$2.5 | 94% | 5.5 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | New | Lamp | 143 | 28% | 0.01 | 7 | \$2.5 | 24% | 6.2 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | New | Lamp | 139 | 26% | 0.01 | 7 | \$2.5 | 94% | 5.5 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | ROB | Lamp | 183 | 26% | 0.01 | 7 | \$2.5 | 94% | 7.2 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | ROB | Lamp | 183 | 26% | 0.01 | 7 | \$2.5 | 94% | 7.2 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | ROB | Lamp | 189 | 28% | 0.01 | 7 | \$2.5 | 24% | 8.1 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | ROB | Lamp | 183 | 26% | 0.01 | 7 | \$2.5 | 94% | 7.2 |
| FE-Met Ed | T8 Lamp (any length) Electronic Ballast | Standard T12 lamp (any length) | Lodging | Lin. Fluor. Lighting | Early | Lamp | 347 | 42% | 0.02 | 7 | \$14 | 94% | 4.0 |
| FE-Met Ed | Time Clock Control | Lighting w/ No Controls | Lodging | Lin. Fluor. Lighting | Existing | building | 32,835 | 28% | 0.3 | 8 | \$837 | 14% | 3.8 |
| FE-Met Ed | Time Clock Control | Lighting w/ No Controls | Lodging | Lin. Fluor. Lighting | New | building | 32,835 | 4.1% | 0.04 | 8 | \$837 | 0% | 0.6 |
| FE-Met Ed | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | Early | motor | 4,397 | 3.7% | 0.02 | 15 | \$374 | 76% | 0.3 |
| FE-Met Ed | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | Early | motor | 4,397 | 3.7% | 0.02 | 15 | \$374 | 76% | 0.3 |
| FE-Met Ed | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | Early | motor | 4,397 | 3.7% | 0.02 | 15 | \$374 | 76% | 0.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|--|---------|---------|---------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | New | motor | 230,198 | 0.5% | 0.1 | 15 | \$431 | 70% | 1.9 |
| FE-Met Ed | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | ROB | motor | 230,198 | 0.5% | 0.1 | 15 | \$431 | 70% | 1.8 |
| FE-Met Ed | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | ROB | motor | 230,198 | 0.5% | 0.1 | 15 | \$431 | 70% | 1.9 |
| FE-Met Ed | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | ROB | motor | 230,198 | 0.5% | 0.1 | 15 | \$431 | 70% | 1.9 |
| FE-Met Ed | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | ROB | motor | 230,198 | 0.5% | 0.2 | 15 | \$431 | 70% | 1.9 |
| FE-Met Ed | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | ROB | motor | 230,198 | 0.5% | 0.1 | 15 | \$431 | 70% | 1.9 |
| FE-Met Ed | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | Early | motor | 30,775 | 2.9% | 0.1 | 15 | \$802 | 83% | 0.8 |
| FE-Met Ed | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | Early | motor | 30,775 | 2.9% | 0.1 | 15 | \$802 | 83% | 0.8 |
| FE-Met Ed | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | Early | motor | 30,775 | 2.9% | 0.1 | 15 | \$802 | 83% | 0.8 |
| FE-Met Ed | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | Early | motor | 30,775 | 2.9% | 0.1 | 15 | \$802 | 83% | 0.8 |
| FE-Met Ed | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | Early | motor | 30,775 | 2.9% | 0.1 | 15 | \$802 | 83% | 0.8 |
| FE-Met Ed | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | New | motor | 30,040 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.9 |
| FE-Met Ed | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | New | motor | 30,040 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.9 |
| FE-Met Ed | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | New | motor | 30,040 | 0.6% | 0.02 | 15 | \$123 | 83% | 0.9 |
| FE-Met Ed | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | New | motor | 30,040 | 0.6% | 0.02 | 15 | \$123 | 83% | 0.9 |
| FE-Met Ed | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | ROB | motor | 30,040 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.9 |
| FE-Met Ed | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | ROB | motor | 30,040 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.9 |
| FE-Met Ed | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | ROB | motor | 30,040 | 0.6% | 0.02 | 15 | \$123 | 83% | 0.9 |
| FE-Met Ed | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | ROB | motor | 30,040 | 0.6% | 0.02 | 15 | \$123 | 83% | 0.9 |
| FE-Met Ed | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | ROB | motor | 30,040 | 0.6% | 0.02 | 15 | \$123 | 83% | 0.9 |
| FE-Met Ed | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | ROB | motor | 30,040 | 0.6% | 0.02 | 15 | \$123 | 83% | 0.9 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | Early | motor | 290,139 | 1.4% | 0.5 | 15 | \$3,955 | 61% | 0.7 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | Early | motor | 290,139 | 1.4% | 0.5 | 15 | \$3,955 | 61% | 0.7 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | Early | motor | 290,139 | 1.4% | 0.6 | 15 | \$3,955 | 61% | 0.7 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | Early | motor | 290,139 | 1.4% | 0.5 | 15 | \$3,955 | 61% | 0.7 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | New | motor | 287,748 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.8 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | New | motor | 287,748 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.8 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | New | motor | 287,748 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.9 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | New | motor | 287,748 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.8 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | ROB | motor | 287,748 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.8 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | ROB | motor | 287,748 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.8 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | ROB | motor | 287,748 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.8 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | ROB | motor | 287,748 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.9 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | ROB | motor | 287,748 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.8 |
| FE-Met Ed | ASD HVAC Fan | Std. HVAC Fan | Lodging | Motors | New | measure | 10,530 | 6.0% | 0.07 | 15 | \$2,225 | 85% | 0.2 |
| FE-Met Ed | ASD HVAC Fan | Std. HVAC Fan | Lodging | Motors | ROB | measure | 10,530 | 6.0% | 0.07 | 15 | \$2,225 | 85% | 0.2 |
| FE-Met Ed | demand controlled ventilation | Absence of Demand Controlled Ventilation | Lodging | Motors | Early | measure | 10,530 | 14% | 0.2 | 10 | \$5,189 | 92% | 0.1 |
| FE-Met Ed | demand controlled ventilation | Office building thermostat | Lodging | Motors | New | measure | 10,530 | 14% | 0.2 | 10 | \$4,048 | 92% | 0.2 |
| FE-Met Ed | demand controlled ventilation | Office building thermostat | Lodging | Motors | ROB | measure | 10,530 | 14% | 0.2 | 10 | \$4,048 | 92% | 0.2 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Lodging | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 22.8 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Lodging | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 23.3 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Lodging | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 23.9 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Lodging | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 24.3 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Lodging | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 24.8 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Lodging | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 22.9 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Lodging | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 23.3 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Lodging | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 23.9 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Lodging | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 24.4 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Lodging | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 24.8 |
| FE-Met Ed | Escalator Motor Controller | Constant power control | Lodging | Motors | New | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 36% | 6.3 |
| FE-Met Ed | Escalator Motor Controller | Constant power control | Lodging | Motors | ROB | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 36% | 6.3 |
| FE-Met Ed | Fan Motor - correct sizing | Incorrect Fan Motor Sizing | Lodging | Motors | ROB | measure | 10,530 | 1.6% | 0.02 | 15 | \$50 | 92% | 2.3 |
| FE-Met Ed | Variable Speed Drive Control, 15HP | Existing Motors w/out VSD Drive | Lodging | Motors | Early | motor | 60,079 | 70% | 6.2 | 15 | \$731 | 86% | 40.3 |
| FE-Met Ed | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Lodging | Motors | New | motor | 58,787 | 72% | 6.2 | 15 | \$731 | 86% | 40.3 |
| FE-Met Ed | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Lodging | Motors | ROB | motor | 58,787 | 72% | 6.2 | 15 | \$731 | 86% | 40.3 |
| FE-Met Ed | Variable Speed Drive Control, 40HP | Existing Motors w/out VSD Drive | Lodging | Motors | Early | motor | 156,766 | 71% | 16.3 | 15 | \$4,666 | 86% | 16.6 |
| FE-Met Ed | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Lodging | Motors | New | motor | 154,933 | 72% | 16.3 | 15 | \$4,666 | 86% | 16.6 |
| FE-Met Ed | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Lodging | Motors | ROB | motor | 154,933 | 72% | 16.3 | 15 | \$4,666 | 86% | 16.6 |
| FE-Met Ed | Variable Speed Drive Control, 5HP | Existing Motors w/out VFD Drive | Lodging | Motors | Early | motor | 20,827 | 72% | 2.2 | 15 | \$2,243 | 86% | 4.7 |
| FE-Met Ed | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Lodging | Motors | New | motor | 20,362 | 72% | 2.1 | 15 | \$2,243 | 86% | 4.6 |
| FE-Met Ed | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Lodging | Motors | ROB | motor | 20,362 | 72% | 2.1 | 15 | \$2,243 | 86% | 4.5 |
| FE-Met Ed | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Lodging | Motors | Early | motor | 24,832 | 4.5% | 0.1 | 15 | \$268 | 40% | 2.8 |
| FE-Met Ed | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Lodging | Motors | New | motor | 24,832 | 4.5% | 0.1 | 15 | \$268 | 40% | 2.8 |
| FE-Met Ed | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Lodging | Motors | ROB | motor | 24,832 | 4.5% | 0.1 | 15 | \$268 | 40% | 2.8 |
| FE-Met Ed | VFD on Chilled Water Pump | Motor w/out VFD Drive | Lodging | Motors | Early | motor | 55,591 | 55% | 2.7 | 15 | \$2,903 | 86% | 6.6 |
| FE-Met Ed | VFD on Chilled Water Pump | Motor w/out VFD Drive | Lodging | Motors | New | motor | 54,551 | 55% | 2.7 | 15 | \$2,843 | 86% | 6.6 |
| FE-Met Ed | VFD on Chilled Water Pump | Motor w/out VFD Drive | Lodging | Motors | ROB | motor | 54,551 | 55% | 2.7 | 15 | \$2,843 | 86% | 6.6 |
| FE-Met Ed | VFD on Condenser Water Pump | Motor w/out VFD Drive | Lodging | Motors | Early | motor | 54,129 | 33% | 3.2 | 15 | \$2,903 | 86% | 4.3 |
| FE-Met Ed | VFD on Condenser Water Pump | Motor w/out VFD Drive | Lodging | Motors | New | motor | 53,116 | 33% | 3.1 | 15 | \$2,843 | 86% | 4.4 |
| FE-Met Ed | VFD on Condenser Water Pump | Motor w/out VFD Drive | Lodging | Motors | ROB | motor | 53,116 | 33% | 3.1 | 15 | \$2,843 | 86% | 4.4 |
| FE-Met Ed | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Lodging | Motors | Early | motor | 56,603 | 56% | 0.00 | 15 | \$2,903 | 86% | 5.9 |
| FE-Met Ed | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Lodging | Motors | New | motor | 55,544 | 57% | 0.00 | 15 | \$2,843 | 86% | 6.0 |
| FE-Met Ed | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Lodging | Motors | ROB | motor | 55,544 | 57% | 0.00 | 15 | \$2,843 | 86% | 6.0 |
| FE-Met Ed | VFD on HVAC Fan | Motor w/out VFD | Lodging | Motors | Early | motor | 56,640 | 70% | 3.4 | 15 | \$2,903 | 86% | 8.8 |
| FE-Met Ed | VFD on HVAC Fan | Motor w/out VFD | Lodging | Motors | New | motor | 55,580 | 72% | 3.3 | 15 | \$2,843 | 86% | 9.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|--|---------|---------------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | VFD on HVAC Fan | Motor w/out VFD | Lodging | Motors | ROB | motor | 55,580 | 72% | 3.3 | 15 | \$2,843 | 86% | 9.0 |
| FE-Met Ed | Elevators | Std. Eff Elevator | Lodging | Other | ROB | measure | 89,016 | 18% | 1.1 | 15 | \$3,382 | 81% | 2.9 |
| FE-Met Ed | Variable Speed Drives on Process Equipment | Constant speed control | Lodging | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 11.3 |
| FE-Met Ed | Variable Speed Drives on Process Equipment | Constant speed control | Lodging | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 11.3 |
| FE-Met Ed | Auto Off Time Switch | Lighting w/ No Controls | Lodging | Other Int. Lighting | Existing | building | 3,681 | 24% | 0.2 | 8 | \$837 | 13% | 0.5 |
| FE-Met Ed | Auto Off Time Switch | Lighting w/ No Controls | Lodging | Other Int. Lighting | New | building | 3,681 | 7.0% | 0.07 | 8 | \$837 | 0% | 0.2 |
| FE-Met Ed | Central Lighting Control System | Lighting w/ No Controls | Lodging | Other Int. Lighting | Existing | building | 3,681 | 38% | 0.4 | 8 | \$837 | 13% | 0.8 |
| FE-Met Ed | Central Lighting Control System | Lighting w/ No Controls | Lodging | Other Int. Lighting | New | building | 3,681 | 14% | 0.1 | 8 | \$837 | 13% | 0.3 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 40W Incandescent Bulb | Lodging | Other Int. Lighting | Early | lamp | 204 | 87% | 0.03 | 7 | \$30 | 14% | 2.2 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Lodging | Other Int. Lighting | Early | lamp | 146 | 81% | 0.02 | 7 | \$30 | 11% | 1.5 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Lodging | Other Int. Lighting | New | lamp | 111 | 81% | 0.01 | 7 | \$21 | 14% | 1.6 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Lodging | Other Int. Lighting | New | lamp | 111 | 81% | 0.01 | 7 | \$23 | 14% | 1.5 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Lodging | Other Int. Lighting | New | lamp | 111 | 81% | 0.01 | 7 | \$22 | 11% | 1.5 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Lodging | Other Int. Lighting | ROB | lamp | 146 | 81% | 0.02 | 7 | \$21 | 14% | 2.1 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Lodging | Other Int. Lighting | ROB | lamp | 146 | 81% | 0.02 | 7 | \$23 | 14% | 2.0 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Lodging | Other Int. Lighting | ROB | lamp | 146 | 81% | 0.02 | 7 | \$22 | 11% | 2.0 |
| FE-Met Ed | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Lodging | Other Int. Lighting | Early | lamp | 204 | 75% | 0.02 | 3 | \$73 | 24% | 0.4 |
| FE-Met Ed | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Lodging | Other Int. Lighting | New | fixture | 222 | 65% | 0.02 | 13 | \$29 | 28% | 3.2 |
| FE-Met Ed | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Lodging | Other Int. Lighting | New | lamp | 111 | 65% | 0.01 | 3 | \$29 | 28% | 0.4 |
| FE-Met Ed | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Lodging | Other Int. Lighting | ROB | fixture | 293 | 65% | 0.03 | 13 | \$29 | 24% | 4.1 |
| FE-Met Ed | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Lodging | Other Int. Lighting | ROB | lamp | 146 | 65% | 0.01 | 3 | \$29 | 24% | 0.6 |
| FE-Met Ed | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Lodging | Other Int. Lighting | Early | lamp | 204 | 75% | 0.02 | 3 | \$3.2 | 24% | 8.5 |
| FE-Met Ed | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Lodging | Other Int. Lighting | New | lamp | 111 | 65% | 0.01 | 3 | \$1.8 | 24% | 7.3 |
| FE-Met Ed | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Lodging | Other Int. Lighting | ROB | lamp | 146 | 65% | 0.01 | 3 | \$1.8 | 24% | 9.6 |
| FE-Met Ed | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Lodging | Other Int. Lighting | ROB | lamp | 146 | 65% | 0.01 | 3 | \$1.8 | 24% | 9.6 |
| FE-Met Ed | Exit Sign Retrofit: CFL replacing Incandescent | One 23W Single Sided Incandescent Exit Sign | Lodging | Other Int. Lighting | Early | exit sign | 130 | 42% | 0.01 | 15 | \$48 | 22% | 0.8 |
| FE-Met Ed | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Lodging | Other Int. Lighting | New | building | 3,681 | 10% | 0.1 | 15 | \$45,527 | 32% | 0.0 |
| FE-Met Ed | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Lodging | Other Int. Lighting | New | building | 3,681 | 15% | 0.2 | 15 | \$113,817 | 32% | 0.0 |
| FE-Met Ed | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Lodging | Other Int. Lighting | New | building | 3,681 | 30% | 0.3 | 15 | \$163,138 | 32% | 0.0 |
| FE-Met Ed | Indoor Daylight Sensors | Lighting w/ No Controls | Lodging | Other Int. Lighting | Existing | building | 3,681 | 28% | 0.3 | 8 | \$4,117 | 13% | 0.1 |
| FE-Met Ed | Indoor Daylight Sensors | Lighting w/ No Controls | Lodging | Other Int. Lighting | New | building | 3,681 | 4.1% | 0.04 | 8 | \$4,117 | 0% | 0.0 |
| FE-Met Ed | LED Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Lodging | Other Int. Lighting | Early | sign | 153 | 87% | 0.02 | 15 | \$48 | 16% | 1.9 |
| FE-Met Ed | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Lodging | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 2.1 |
| FE-Met Ed | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Lodging | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 2.1 |
| FE-Met Ed | LED Task Lighting/Screw-In | 1 15W CFL bulb | Lodging | Other Int. Lighting | Early | lamp | 42 | 33% | 0.00 | 9 | \$9.6 | 24% | 0.7 |
| FE-Met Ed | LED Task Lighting/Screw-In | 1 60W Incandescent Bulb | Lodging | Other Int. Lighting | Early | lamp | 167 | 83% | 0.02 | 9 | \$9.6 | 24% | 6.8 |
| FE-Met Ed | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Lodging | Other Int. Lighting | New | lamp | 91 | 77% | 0.01 | 9 | \$7.9 | 24% | 4.1 |
| FE-Met Ed | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Lodging | Other Int. Lighting | New | lamp | 91 | 77% | 0.01 | 9 | \$7.9 | 24% | 4.1 |
| FE-Met Ed | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Lodging | Other Int. Lighting | ROB | lamp | 120 | 77% | 0.01 | 9 | \$7.9 | 24% | 5.4 |
| FE-Met Ed | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Lodging | Other Int. Lighting | ROB | lamp | 120 | 77% | 0.01 | 9 | \$7.9 | 24% | 5.4 |
| FE-Met Ed | Occupancy Sensor | Lighting w/ No Controls | Lodging | Other Int. Lighting | Existing | building | 3,681 | 24% | 0.2 | 8 | \$1,260 | 12% | 0.3 |
| FE-Met Ed | Occupancy Sensor | Lighting w/ No Controls | Lodging | Other Int. Lighting | New | building | 3,681 | 7.0% | 0.07 | 8 | \$1,260 | 0% | 0.1 |
| FE-Met Ed | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Lodging | Other Int. Lighting | Existing | building | 3,681 | 28% | 0.3 | 8 | \$4,117 | 12% | 0.1 |
| FE-Met Ed | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Lodging | Other Int. Lighting | New | building | 3,681 | 4.1% | 0.04 | 8 | \$4,117 | 0% | 0.0 |
| FE-Met Ed | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Lodging | Other Int. Lighting | Early | exit sign | 130 | 100% | 0.02 | 15 | \$173 | 26% | 0.5 |
| FE-Met Ed | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Lodging | Other Int. Lighting | New | exit sign | 75 | 100% | 0.01 | 15 | \$148 | 31% | 0.4 |
| FE-Met Ed | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Lodging | Other Int. Lighting | ROB | exit sign | 75 | 100% | 0.01 | 15 | \$148 | 26% | 0.4 |
| FE-Met Ed | Time Clock Control | Lighting w/ No Controls | Lodging | Other Int. Lighting | Existing | building | 3,681 | 28% | 0.3 | 8 | \$837 | 13% | 0.6 |
| FE-Met Ed | Time Clock Control | Lighting w/ No Controls | Lodging | Other Int. Lighting | New | building | 3,681 | 4.1% | 0.04 | 8 | \$837 | 0% | 0.1 |
| FE-Met Ed | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Lodging | Plug Load | Existing | building | 2,015 | 46% | 0.5 | 5 | \$189 | 4% | 2.0 |
| FE-Met Ed | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Lodging | Plug Load | New | building | 2,015 | 46% | 0.5 | 5 | \$189 | 4% | 2.0 |
| FE-Met Ed | Data Center - Server/Storage Consolidation | No Consolidation | Lodging | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Met Ed | Data Center - Server/Storage Consolidation | No Consolidation | Lodging | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Met Ed | Data Center - Server/Storage Virtualization | No Virtualization | Lodging | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Met Ed | Data Center - Server/Storage Virtualization | No Virtualization | Lodging | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Met Ed | Energy Star - Scanners | Std Scanner | Lodging | Plug Load | New | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| FE-Met Ed | Energy Star - Scanners | Std Scanner | Lodging | Plug Load | ROB | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| FE-Met Ed | Energy Star Battery Charging System (for small cordless products) | Std. Battery Charging System | Lodging | Plug Load | ROB | measure | 593 | 2.3% | 0.2 | 5 | \$65 | 4% | 1.3 |
| FE-Met Ed | Energy Star Dishwasher | Existing Dishwasher units | Lodging | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,580 | 23% | 1.1 |
| FE-Met Ed | Energy Star Dishwasher | Standard Dishwasher unit | Lodging | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 23% | 3.5 |
| FE-Met Ed | Energy Star Dishwasher | Standard Dishwasher unit | Lodging | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 23% | 3.5 |
| FE-Met Ed | Energy Star External Power Adapter | Std. Power Adapter | Lodging | Plug Load | New | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| FE-Met Ed | Energy Star External Power Adapter | Std. Power Adapter | Lodging | Plug Load | ROB | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| FE-Met Ed | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Lodging | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 17% | 0.2 |
| FE-Met Ed | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Lodging | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.1 |
| FE-Met Ed | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Lodging | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.1 |
| FE-Met Ed | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Lodging | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 64% | 0.8 |
| FE-Met Ed | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Lodging | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 64% | 1.7 |
| FE-Met Ed | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Lodging | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 64% | 1.7 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|---|---------|---------------|----------|-------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | ENERGY STAR® Copiers | 10% Less Efficient Copier | Lodging | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 18% | 0.0 |
| FE-Met Ed | ENERGY STAR® Copiers | One Conventional Copier | Lodging | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| FE-Met Ed | ENERGY STAR® Copiers | One Conventional Copier | Lodging | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| FE-Met Ed | ENERGY STAR® desktop | Standard computer | Lodging | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 69% | 0.1 |
| FE-Met Ed | ENERGY STAR® desktop | Standard computer | Lodging | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.4 |
| FE-Met Ed | ENERGY STAR® desktop | Standard computer | Lodging | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.4 |
| FE-Met Ed | ENERGY STAR® Fax | 10% Less Efficient Fax | Lodging | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 15% | 0.0 |
| FE-Met Ed | ENERGY STAR® Fax | One Conventional Fax | Lodging | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| FE-Met Ed | ENERGY STAR® Fax | One Conventional Fax | Lodging | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| FE-Met Ed | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Lodging | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 70% | 0.0 |
| FE-Met Ed | ENERGY STAR® Monitors | One Conventional Monitor | Lodging | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| FE-Met Ed | ENERGY STAR® Monitors | One Conventional Monitor | Lodging | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| FE-Met Ed | ENERGY STAR® Printers | 10% Less Efficient Printer | Lodging | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 44% | 0.0 |
| FE-Met Ed | ENERGY STAR® Printers | One Conventional Printer | Lodging | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.4 |
| FE-Met Ed | ENERGY STAR® Printers | One Conventional Printer | Lodging | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.4 |
| FE-Met Ed | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Lodging | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 43% | 0.1 |
| FE-Met Ed | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Lodging | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.8 |
| FE-Met Ed | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Lodging | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.8 |
| FE-Met Ed | ENERGY STAR® Televisions | 10% Less Efficient Television | Lodging | Plug Load | Early | Unit | 280 | 38% | 0.01 | 6 | \$672 | 40% | 0.0 |
| FE-Met Ed | ENERGY STAR® Televisions | One Conventional Television | Lodging | Plug Load | New | Unit | 254 | 32% | 0.01 | 6 | \$206 | 40% | 0.1 |
| FE-Met Ed | ENERGY STAR® Televisions | One Conventional Television | Lodging | Plug Load | ROB | Unit | 254 | 32% | 0.01 | 6 | \$206 | 40% | 0.1 |
| FE-Met Ed | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Lodging | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 24% | 0.3 |
| FE-Met Ed | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Lodging | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.7 |
| FE-Met Ed | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Lodging | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.7 |
| FE-Met Ed | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Lodging | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 73% | 0.3 |
| FE-Met Ed | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Lodging | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 73% | 0.3 |
| FE-Met Ed | Network PC Power Management | No PC Power Management | Lodging | Plug Load | Existing | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 10.2 |
| FE-Met Ed | Network PC Power Management | No PC Power Management | Lodging | Plug Load | New | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 10.2 |
| FE-Met Ed | Smart Strip Plug Outlets | Standard plug strip/outlet | Lodging | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.5 |
| FE-Met Ed | Smart Strip Plug Outlets | Standard plug strip/outlet | Lodging | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.5 |
| FE-Met Ed | Smart Strip Plug Outlets | Standard plug strip/outlet | Lodging | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Met Ed | Smart Strip Plug Outlets | Standard plug strip/outlet | Lodging | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Met Ed | Smart Strip Plug Outlets | Standard plug strip/outlet | Lodging | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Met Ed | Smart Strip Plug Outlets | Standard plug strip/outlet | Lodging | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Met Ed | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Lodging | Plug Load | Existing | building | 2,015 | 46% | 0.5 | 5 | \$180 | 3% | 2.1 |
| FE-Met Ed | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Lodging | Plug Load | New | building | 2,015 | 46% | 0.5 | 5 | \$180 | 3% | 2.1 |
| FE-Met Ed | Air curtain technology | Strip plastic curtain | Lodging | Refrigeration | New | building | 7,554 | 6.8% | 0.07 | 8 | \$1,103 | 35% | 0.2 |
| FE-Met Ed | Air curtain technology | Strip plastic curtain | Lodging | Refrigeration | New | building | 7,718 | 6.8% | 0.07 | 8 | \$1,119 | 35% | 0.2 |
| FE-Met Ed | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Lodging | Refrigeration | Existing | building | 657 | 2.3% | 0.02 | 12 | \$70 | 11% | 0.4 |
| FE-Met Ed | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Lodging | Refrigeration | New | building | 657 | 2.3% | 0.02 | 12 | \$70 | 11% | 0.4 |
| FE-Met Ed | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Lodging | Refrigeration | Existing | building | 657 | 0.9% | 0.01 | 12 | \$70 | 11% | 0.1 |
| FE-Met Ed | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Lodging | Refrigeration | New | building | 657 | 0.9% | 0.01 | 12 | \$70 | 11% | 0.1 |
| FE-Met Ed | Auto Closer on Refrigerator Door | Door w/out Autocloser | Lodging | Refrigeration | Existing | building | 7,554 | 18% | 0.2 | 8 | \$803 | 40% | 0.7 |
| FE-Met Ed | Auto Closer on Refrigerator Door | Door w/out Autocloser | Lodging | Refrigeration | Existing | building | 7,718 | 9.1% | 0.09 | 8 | \$714 | 40% | 0.4 |
| FE-Met Ed | Auto Closer on Refrigerator Door | Door w/out Autocloser | Lodging | Refrigeration | New | building | 7,554 | 18% | 0.2 | 8 | \$803 | 40% | 0.7 |
| FE-Met Ed | Auto Closer on Refrigerator Door | Door w/out Autocloser | Lodging | Refrigeration | New | building | 7,718 | 9.1% | 0.09 | 8 | \$714 | 40% | 0.4 |
| FE-Met Ed | Demand Hot Gas Defrost | Base Refrigeration System | Lodging | Refrigeration | Existing | measure | 657 | 3.0% | 0.03 | 10 | \$1,424 | 0% | 0.0 |
| FE-Met Ed | Demand Hot Gas Defrost | Base Refrigeration System | Lodging | Refrigeration | New | measure | 657 | 3.0% | 0.03 | 10 | \$1,424 | 0% | 0.0 |
| FE-Met Ed | Door Gasket- Freezer | Door w/out Gasket | Lodging | Refrigeration | Existing | building | 7,554 | 10% | 0.1 | 4 | \$82 | 29% | 2.0 |
| FE-Met Ed | Door Gasket- Freezer | Door w/out Gasket | Lodging | Refrigeration | New | building | 7,554 | 9.3% | 0.09 | 4 | \$82 | 29% | 1.9 |
| FE-Met Ed | Door Gasket- Refrigerator | Door w/out Gasket | Lodging | Refrigeration | Existing | building | 7,718 | 2.9% | 0.03 | 4 | \$99 | 45% | 0.5 |
| FE-Met Ed | Door Gasket- Refrigerator | Door w/out Gasket | Lodging | Refrigeration | New | building | 7,718 | 2.9% | 0.03 | 4 | \$99 | 45% | 0.5 |
| FE-Met Ed | Economizer for Walk-in Coolers | No Economizer | Lodging | Refrigeration | Early | measure | 16,150 | 6.6% | 0.1 | 10 | \$188 | 72% | 2.7 |
| FE-Met Ed | Economizer for Walk-in Coolers | No Economizer | Lodging | Refrigeration | Early | measure | 16,150 | 6.6% | 0.1 | 10 | \$188 | 72% | 2.7 |
| FE-Met Ed | Economizer for Walk-in Coolers | No Economizer | Lodging | Refrigeration | Early | measure | 16,150 | 6.6% | 0.1 | 10 | \$188 | 72% | 2.7 |
| FE-Met Ed | Economizer for Walk-in Coolers | No Economizer | Lodging | Refrigeration | New | measure | 16,150 | 6.6% | 0.1 | 10 | \$22 | 72% | 23.1 |
| FE-Met Ed | Economizer for Walk-in Coolers | No Economizer | Lodging | Refrigeration | New | measure | 16,150 | 6.6% | 0.1 | 10 | \$22 | 72% | 23.1 |
| FE-Met Ed | Economizer for Walk-in Coolers | No Economizer | Lodging | Refrigeration | New | measure | 16,150 | 6.6% | 0.1 | 10 | \$22 | 72% | 23.2 |
| FE-Met Ed | Economizer for Walk-in Coolers | No Economizer | Lodging | Refrigeration | ROB | measure | 16,150 | 6.6% | 0.1 | 10 | \$22 | 72% | 23.1 |
| FE-Met Ed | Economizer for Walk-in Coolers | No Economizer | Lodging | Refrigeration | ROB | measure | 16,150 | 6.6% | 0.1 | 10 | \$22 | 72% | 23.2 |
| FE-Met Ed | Economizer for Walk-in Coolers | No Economizer | Lodging | Refrigeration | ROB | measure | 16,150 | 6.6% | 0.1 | 10 | \$22 | 72% | 23.2 |
| FE-Met Ed | eCube | Refrigeration unit w/out eCube | Lodging | Refrigeration | Existing | building | 7,718 | 15% | 0.2 | 15 | \$601 | 57% | 1.3 |
| FE-Met Ed | eCube | Refrigeration unit w/out eCube | Lodging | Refrigeration | New | building | 7,718 | 15% | 0.2 | 15 | \$601 | 57% | 1.3 |
| FE-Met Ed | Efficient compressor motor | Base Refrigeration System - Grocery | Lodging | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| FE-Met Ed | Efficient compressor motor | Base Refrigeration System - Grocery | Lodging | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| FE-Met Ed | Efficient compressor motor | Base Refrigeration System - Grocery | Lodging | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| FE-Met Ed | Efficient compressor motor | Base Refrigeration System - Grocery | Lodging | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| FE-Met Ed | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Lodging | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.6 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|---|---------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Lodging | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| FE-Met Ed | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Lodging | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| FE-Met Ed | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Lodging | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.3 |
| FE-Met Ed | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Lodging | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.8 |
| FE-Met Ed | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Lodging | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.8 |
| FE-Met Ed | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Lodging | Refrigeration | Existing | building | 7,718 | 1.1% | 0.01 | 10 | \$369 | 77% | 0.1 |
| FE-Met Ed | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Lodging | Refrigeration | New | building | 7,718 | 1.1% | 0.01 | 10 | \$369 | 77% | 0.1 |
| FE-Met Ed | Floating head pressure controller | System w/out FHPC | Lodging | Refrigeration | Existing | building | 7,554 | 3.0% | 0.02 | 15 | \$8,682 | 41% | 0.0 |
| FE-Met Ed | Floating head pressure controller | System w/out FHPC | Lodging | Refrigeration | Existing | building | 657 | 15% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-Met Ed | Floating head pressure controller | System w/out FHPC | Lodging | Refrigeration | Existing | building | 7,718 | 1.0% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-Met Ed | Floating head pressure controller | System w/out FHPC | Lodging | Refrigeration | New | building | 7,554 | 3.0% | 0.02 | 15 | \$8,682 | 41% | 0.0 |
| FE-Met Ed | Floating head pressure controller | System w/out FHPC | Lodging | Refrigeration | New | building | 657 | 15% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-Met Ed | Floating head pressure controller | System w/out FHPC | Lodging | Refrigeration | New | building | 7,718 | 1.0% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-Met Ed | High Efficiency Commercial Freezer | Std. Commercial Freezer | Lodging | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 84% | 0.3 |
| FE-Met Ed | High Efficiency Commercial Freezer | Std. Commercial Freezer | Lodging | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 84% | 4.1 |
| FE-Met Ed | High Efficiency Commercial Freezer | Std. Commercial Freezer | Lodging | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 84% | 4.1 |
| FE-Met Ed | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Lodging | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 21% | 0.1 |
| FE-Met Ed | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Lodging | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 21% | 0.9 |
| FE-Met Ed | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Lodging | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 21% | 0.9 |
| FE-Met Ed | High Efficiency Ice Maker | Exisiting Standard Efficiency Ice Maker in Pennsylvania | Lodging | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 69% | 0.2 |
| FE-Met Ed | High Efficiency Ice Maker | Standard code minimum Ice Maker | Lodging | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| FE-Met Ed | High Efficiency Ice Maker | Standard code minimum Ice Maker | Lodging | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 69% | 0.2 |
| FE-Met Ed | High Efficiency Ice Making Head | Standard Ice Making Head | Lodging | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 4.0 |
| FE-Met Ed | High Efficiency Ice Making Head | Standard Ice Making Head | Lodging | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 4.0 |
| FE-Met Ed | High R-Value Glass Doors | Base Refrigeration System - Grocery | Lodging | Refrigeration | Existing | building | 657 | 0.7% | 0.01 | 10 | \$25 | 0% | 0.3 |
| FE-Met Ed | High R-Value Glass Doors | Base Refrigeration System - Grocery | Lodging | Refrigeration | New | building | 657 | 0.7% | 0.01 | 10 | \$25 | 0% | 0.3 |
| FE-Met Ed | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Lodging | Refrigeration | Early | Fixture | 373 | 56% | 0.02 | 8 | \$448 | 86% | 0.2 |
| FE-Met Ed | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Lodging | Refrigeration | New | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 86% | 0.3 |
| FE-Met Ed | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Lodging | Refrigeration | ROB | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 86% | 0.3 |
| FE-Met Ed | No-heat glass doors | Standard low-temp reach-in | Lodging | Refrigeration | Existing | building | 657 | 20% | 0.2 | 10 | \$2,303 | 8% | 0.1 |
| FE-Met Ed | No-heat glass doors | Standard low-temp reach-in | Lodging | Refrigeration | New | building | 657 | 20% | 0.2 | 10 | \$2,303 | 8% | 0.1 |
| FE-Met Ed | Quick acting freezer doors | Std. Freezer Doors | Lodging | Refrigeration | Existing | building | 7,554 | 13% | 0.1 | 10 | \$1,299 | 56% | 0.4 |
| FE-Met Ed | Quick acting freezer doors | Std. Freezer Doors | Lodging | Refrigeration | New | building | 7,554 | 13% | 0.1 | 10 | \$1,299 | 56% | 0.4 |
| FE-Met Ed | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Lodging | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 29% | 0.4 |
| FE-Met Ed | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Lodging | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 29% | 1.6 |
| FE-Met Ed | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Lodging | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 29% | 1.6 |
| FE-Met Ed | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 29% | 1.7 |
| FE-Met Ed | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 29% | 3.0 |
| FE-Met Ed | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 29% | 3.0 |
| FE-Met Ed | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 29% | 1.7 |
| FE-Met Ed | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 29% | 4.0 |
| FE-Met Ed | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 29% | 4.0 |
| FE-Met Ed | Refrigeration Commissioning | Non-commissioned refrigeration system | Lodging | Refrigeration | Existing | building | 16,421 | 9.5% | 0.10 | 3 | \$4,029 | 85% | 0.1 |
| FE-Met Ed | Refrigeration Commissioning | Non-commissioned refrigeration system | Lodging | Refrigeration | New | building | 16,421 | 9.5% | 0.10 | 3 | \$4,029 | 85% | 0.1 |
| FE-Met Ed | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Lodging | Refrigeration | Existing | building | 7,554 | 24% | 0.2 | 4 | \$100 | 22% | 3.9 |
| FE-Met Ed | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Lodging | Refrigeration | Existing | building | 7,718 | 4.1% | 0.04 | 4 | \$120 | 22% | 0.6 |
| FE-Met Ed | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Lodging | Refrigeration | New | building | 7,554 | 24% | 0.2 | 4 | \$100 | 22% | 3.9 |
| FE-Met Ed | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Lodging | Refrigeration | New | building | 7,718 | 4.1% | 0.04 | 4 | \$120 | 22% | 0.6 |
| FE-Met Ed | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Lodging | Refrigeration | Existing | building | 7,554 | 4.4% | 0.04 | 11 | \$140 | 79% | 1.2 |
| FE-Met Ed | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Lodging | Refrigeration | New | building | 7,554 | 4.4% | 0.04 | 11 | \$140 | 79% | 1.2 |
| FE-Met Ed | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Lodging | Refrigeration | Existing | building | 7,718 | 3.3% | 0.03 | 11 | \$140 | 79% | 0.9 |
| FE-Met Ed | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Lodging | Refrigeration | New | building | 7,718 | 3.3% | 0.03 | 11 | \$140 | 79% | 0.9 |
| FE-Met Ed | Vendor Miser | No Vendor Miser | Lodging | Refrigeration | Existing | machine | 657 | 12% | 0.1 | 8 | \$67 | 7% | 1.5 |
| FE-Met Ed | Vertical Night Covers | Display cases w/out night covers-High Temperature | Lodging | Refrigeration | Existing | building | 657 | 0.4% | 0.00 | 5 | \$52 | 9% | 0.0 |
| FE-Met Ed | Vertical Night Covers | Display cases w/out night covers-High Temperature | Lodging | Refrigeration | New | building | 657 | 0.4% | 0.00 | 5 | \$52 | 9% | 0.0 |
| FE-Met Ed | VSD Controlled Compressor | Compressor w/out VSD | Lodging | Refrigeration | Early | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 73% | 0.2 |
| FE-Met Ed | VSD Controlled Compressor | Compressor w/out VSD | Lodging | Refrigeration | New | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 73% | 0.2 |
| FE-Met Ed | VSD Controlled Compressor | Compressor w/out VSD | Lodging | Refrigeration | ROB | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 73% | 0.2 |
| FE-Met Ed | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Lodging | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$269 | 35% | 0.9 |
| FE-Met Ed | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Lodging | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$269 | 35% | 0.9 |
| FE-Met Ed | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Lodging | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.2 |
| FE-Met Ed | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Lodging | Refrigeration | New | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 3.0 |
| FE-Met Ed | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Lodging | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|---|---------|-----------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Lodging | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 3.0 |
| FE-Met Ed | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 35% | 2.4 |
| FE-Met Ed | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 35% | 2.3 |
| FE-Met Ed | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 5.2 |
| FE-Met Ed | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.9 |
| FE-Met Ed | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 5.2 |
| FE-Met Ed | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.9 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Lodging | Space Heating | Existing | building | 11,109 | 7.1% | 0.07 | 6 | \$17,641 | 82% | 0.0 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Lodging | Space Heating | New | building | 11,109 | 7.1% | 0.07 | 6 | \$17,641 | 82% | 0.0 |
| FE-Met Ed | Adding window shade film | No shade film | Lodging | Space Heating | Existing | building | 11,109 | 1.3% | 0.4 | 10 | \$135 | 13% | 2.4 |
| FE-Met Ed | Adding window shade film | No shade film | Lodging | Space Heating | New | building | 11,109 | 1.3% | 0.4 | 10 | \$135 | 13% | 2.4 |
| FE-Met Ed | Adding window shade screen | No shade screen | Lodging | Space Heating | Existing | building | 11,109 | 1.1% | 0.01 | 10 | \$52 | 13% | 1.0 |
| FE-Met Ed | Adding window shade screen | No shade screen | Lodging | Space Heating | New | building | 11,109 | 1.1% | 0.01 | 10 | \$52 | 13% | 1.0 |
| FE-Met Ed | Automated control system | Manual Controls | Lodging | Space Heating | Existing | building | 11,109 | 17% | 0.2 | 15 | \$12,162 | 51% | 0.1 |
| FE-Met Ed | Automated control system | Manual Controls | Lodging | Space Heating | New | building | 11,109 | 17% | 0.2 | 15 | \$12,162 | 94% | 0.1 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Lodging | Space Heating | Existing | building | 11,109 | 3.3% | 0.03 | 15 | \$23,552 | 71% | 0.0 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Lodging | Space Heating | New | building | 11,109 | 1.1% | 0.01 | 15 | \$22,387 | 94% | 0.0 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Lodging | Space Heating | Existing | building | 11,109 | 1.4% | 0.04 | 15 | \$88 | 20% | 1.4 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Lodging | Space Heating | New | building | 11,109 | 1.4% | 0.04 | 15 | \$88 | 10% | 1.4 |
| FE-Met Ed | Efficient Unit Heating System | Existing Unit Heaters in PA | Lodging | Space Heating | Early | heater | 71,298 | 23% | 0.1 | 15 | \$3,289 | 83% | 2.6 |
| FE-Met Ed | Efficient Unit Heating System | Std. Unit Heater | Lodging | Space Heating | New | heater | 63,277 | 13% | 0.06 | 15 | \$1,991 | 83% | 2.2 |
| FE-Met Ed | Efficient Unit Heating System | Std. Unit Heater | Lodging | Space Heating | ROB | heater | 63,277 | 13% | 0.06 | 15 | \$1,991 | 83% | 2.2 |
| FE-Met Ed | Facility Commissioning | No Facility Commissioning | Lodging | Space Heating | New | building | 11,109 | 16% | 0.2 | 10 | \$2,317 | 89% | 0.3 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Lodging | Space Heating | Existing | building | 11,109 | 7.1% | 0.07 | 15 | \$49,277 | 25% | 0.0 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Lodging | Space Heating | New | building | 11,109 | 7.1% | 0.07 | 15 | \$49,277 | 35% | 0.0 |
| FE-Met Ed | Hi Eff HVAC System Design | No HVAC Design | Lodging | Space Heating | New | building | 11,109 | 7.3% | 0.07 | 10 | \$66,318 | 51% | 0.0 |
| FE-Met Ed | Hotel Occupancy Sensor | HVAC system w/out Occupancy Sensors | Lodging | Space Heating | Existing | building | 11,109 | 3.5% | 0.04 | 15 | \$11,644 | 89% | 0.0 |
| FE-Met Ed | Hotel Occupancy Sensor | HVAC system w/out Occupancy Sensors | Lodging | Space Heating | New | building | 11,109 | 3.5% | 0.04 | 15 | \$11,644 | 94% | 0.0 |
| FE-Met Ed | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Lodging | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 1.1 |
| FE-Met Ed | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Lodging | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 1.0 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Lodging | Space Heating | Existing | building | 11,109 | 3.5% | 0.04 | 10 | \$7,735 | 81% | 0.0 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Lodging | Space Heating | New | building | 11,109 | 3.5% | 0.04 | 10 | \$7,735 | 81% | 0.0 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Lodging | Space Heating | Existing | building | 11,109 | 3.6% | 0.04 | 11 | \$286 | 49% | 0.7 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Lodging | Space Heating | New | building | 11,109 | 3.1% | 0.03 | 11 | \$146 | 49% | 1.1 |
| FE-Met Ed | Re-Commissioning (Existing Construction) | No Re-Commissioning | Lodging | Space Heating | Existing | building | 11,109 | 16% | 0.2 | 5 | \$12,530 | 86% | 0.0 |
| FE-Met Ed | VFD on Cooling Tower Fan | Motor w/out VFD | Lodging | Space Heating | Early | motor | 56,640 | 70% | 3.4 | 15 | \$2,843 | 88% | 8.5 |
| FE-Met Ed | VFD on Cooling Tower Fan | Motor w/out VFD | Lodging | Space Heating | New | motor | 55,580 | 72% | 3.3 | 15 | \$2,843 | 88% | 8.5 |
| FE-Met Ed | VFD on Cooling Tower Fan | Motor w/out VFD | Lodging | Space Heating | ROB | motor | 55,580 | 72% | 3.3 | 15 | \$2,843 | 88% | 8.5 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Lodging | Space Heating | Existing | building | 11,109 | 8.0% | 0.08 | 15 | \$6,019 | 26% | 0.1 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Lodging | Space Heating | New | building | 11,109 | 0.2% | 0.00 | 15 | \$4,617 | 94% | 0.0 |
| FE-Met Ed | Green LED Traffic Light | Green Incandescent Traffic Light | Lodging | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 0% | 1.3 |
| FE-Met Ed | Green LED Traffic Light | Green Incandescent Traffic Light | Lodging | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.2 |
| FE-Met Ed | Green LED Traffic Light | Green Incandescent Traffic Light | Lodging | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.2 |
| FE-Met Ed | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Lodging | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 0% | 3.1 |
| FE-Met Ed | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Lodging | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-Met Ed | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Lodging | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-Met Ed | Induction Street Lighting | One 100W HPS Street Light Fixture | Lodging | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 0% | 0.3 |
| FE-Met Ed | Induction Street Lighting | One 100W HPS Street Light Fixture | Lodging | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.8 |
| FE-Met Ed | Induction Street Lighting | One 100W HPS Street Light Fixture | Lodging | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.8 |
| FE-Met Ed | LED Street Lighting | One 100W HPS Street Light | Lodging | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 0% | 0.2 |
| FE-Met Ed | LED Street Lighting | One 100W HPS Street Light | Lodging | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-Met Ed | LED Street Lighting | One 100W HPS Street Light | Lodging | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-Met Ed | Red LED Traffic Light | One Red Incandescent Traffic Light | Lodging | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 0% | 1.7 |
| FE-Met Ed | Red LED Traffic Light | One Red Incandescent Traffic Light | Lodging | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| FE-Met Ed | Red LED Traffic Light | One Red Incandescent Traffic Light | Lodging | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| FE-Met Ed | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Lodging | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 0% | 0.1 |
| FE-Met Ed | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Lodging | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-Met Ed | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Lodging | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-Met Ed | Demand controlled Circulating Systems | Constant circulation system | Lodging | Water Heating | Existing | building | 467 | 20% | 0.2 | 15 | \$85 | 59% | 2.9 |
| FE-Met Ed | Demand controlled Circulating Systems | Constant circulation system | Lodging | Water Heating | New | building | 467 | 20% | 0.2 | 15 | \$85 | 59% | 2.9 |
| FE-Met Ed | Drainwater Heat Recovery Water Heater | No heat recovery | Lodging | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 2.0 |
| FE-Met Ed | Drainwater Heat Recovery Water Heater | No heat recovery | Lodging | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 2.0 |
| FE-Met Ed | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Lodging | Water Heating | Existing | building | 467 | 5.9% | 0.06 | 12 | \$182 | 85% | 0.3 |
| FE-Met Ed | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Lodging | Water Heating | New | building | 467 | 5.9% | 0.06 | 12 | \$52 | 85% | 1.2 |
| FE-Met Ed | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Lodging | Water Heating | Early | water heater | 48,207 | 66% | 5.6 | 10 | \$2,375 | 68% | 6.9 |
| FE-Met Ed | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Lodging | Water Heating | Early | water heater | 48,207 | 66% | 5.6 | 10 | \$2,375 | 68% | 6.9 |
| FE-Met Ed | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Lodging | Water Heating | New | water heater | 48,207 | 66% | 5.6 | 10 | \$2,375 | 68% | 6.9 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|--|---|---------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Lodging | Water Heating | New | water heater | 48,207 | 66% | 5.6 | 10 | \$2,375 | 68% | 7.0 |
| FE-Met Ed | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Lodging | Water Heating | ROB | water heater | 46,868 | 65% | 5.4 | 10 | \$2,375 | 68% | 6.7 |
| FE-Met Ed | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Lodging | Water Heating | ROB | water heater | 46,868 | 65% | 5.4 | 10 | \$2,375 | 68% | 6.7 |
| FE-Met Ed | Heat Recovery Unit | Base Water Heating | Lodging | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.7 |
| FE-Met Ed | Heat Recovery Unit | Base Water Heating | Lodging | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.7 |
| FE-Met Ed | Heat Trap | No Heat Trap | Lodging | Water Heating | Existing | building | 467 | 21% | 0.2 | 11 | \$2.7 | 50% | 72.2 |
| FE-Met Ed | Heat Trap | No Heat Trap | Lodging | Water Heating | New | building | 467 | 21% | 0.2 | 11 | \$0.8 | 50% | 234.3 |
| FE-Met Ed | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Lodging | Water Heating | Early | water heater | 48,207 | 5.9% | 0.5 | 15 | \$614 | 79% | 3.4 |
| FE-Met Ed | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Lodging | Water Heating | Early | water heater | 48,207 | 5.9% | 0.5 | 15 | \$614 | 79% | 3.4 |
| FE-Met Ed | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Lodging | Water Heating | New | water heater | 46,868 | 3.2% | 0.3 | 15 | \$614 | 79% | 1.8 |
| FE-Met Ed | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Lodging | Water Heating | New | water heater | 46,868 | 3.2% | 0.3 | 15 | \$614 | 79% | 1.8 |
| FE-Met Ed | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Lodging | Water Heating | ROB | water heater | 46,868 | 3.2% | 0.3 | 15 | \$614 | 79% | 1.8 |
| FE-Met Ed | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Lodging | Water Heating | ROB | water heater | 46,868 | 3.2% | 0.3 | 15 | \$614 | 79% | 1.8 |
| FE-Met Ed | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Lodging | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$466 | 81% | 41.0 |
| FE-Met Ed | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Lodging | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 21.4 |
| FE-Met Ed | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Lodging | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 21.4 |
| FE-Met Ed | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Lodging | Water Heating | Existing | building | 467 | 1.3% | 0.01 | 13 | \$8.7 | 68% | 1.6 |
| FE-Met Ed | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Lodging | Water Heating | New | building | 467 | 1.3% | 0.01 | 13 | \$8.7 | 0% | 1.6 |
| FE-Met Ed | Hot Water Circulation Pump Time-Clock | Constant circulation system | Lodging | Water Heating | Existing | building | 467 | 5.3% | 0.05 | 10 | \$1.9 | 72% | 25.3 |
| FE-Met Ed | Hot Water Circulation Pump Time-Clock | Constant circulation system | Lodging | Water Heating | New | building | 467 | 5.3% | 0.05 | 10 | \$1.9 | 72% | 25.3 |
| FE-Met Ed | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Lodging | Water Heating | Existing | building | 467 | 0.2% | 0.00 | 7 | \$22 | 78% | 0.1 |
| FE-Met Ed | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Lodging | Water Heating | New | building | 467 | 0.2% | 0.00 | 7 | \$0.5 | 78% | 2.8 |
| FE-Met Ed | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Lodging | Water Heating | Existing | building | 467 | 4.2% | 0.04 | 5 | \$300 | 20% | 0.1 |
| FE-Met Ed | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Lodging | Water Heating | New | building | 467 | 2.8% | 0.03 | 5 | \$194 | 20% | 0.1 |
| FE-Met Ed | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Lodging | Water Heating | Existing | building | 467 | 6.5% | 0.07 | 9 | \$625 | 85% | 0.1 |
| FE-Met Ed | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Lodging | Water Heating | New | building | 467 | 6.5% | 0.07 | 9 | \$150 | 85% | 0.4 |
| FE-Met Ed | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Lodging | Water Heating | Early | water heater | 48,207 | 52% | 2.0 | 15 | \$12,444 | 32% | 1.3 |
| FE-Met Ed | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Lodging | Water Heating | New | water heater | 46,868 | 51% | 1.9 | 15 | \$12,444 | 32% | 1.2 |
| FE-Met Ed | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Lodging | Water Heating | ROB | water heater | 46,868 | 51% | 1.9 | 15 | \$12,444 | 32% | 1.2 |
| FE-Met Ed | Ultrasonic Faucet Control | Manual Faucet Control | Lodging | Water Heating | Existing | building | 467 | 3.0% | 0.03 | 10 | \$81 | 77% | 0.3 |
| FE-Met Ed | Ultrasonic Faucet Control | Manual Faucet Control | Lodging | Water Heating | New | building | 467 | 3.0% | 0.03 | 10 | \$81 | 77% | 0.3 |
| FE-Met Ed | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Lodging | Water Heating | Existing | building | 467 | 2.2% | 0.02 | 4 | \$28 | 83% | 0.3 |
| FE-Met Ed | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Lodging | Water Heating | New | building | 467 | 2.3% | 0.02 | 4 | \$28 | 83% | 0.3 |
| FE-Met Ed | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Misc. | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.2 |
| FE-Met Ed | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Misc. | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.2 |
| FE-Met Ed | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Misc. | Cooking | Early | steamer | 51 | 46% | 0.00 | 12 | \$5,053 | 81% | 0.0 |
| FE-Met Ed | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Misc. | Cooking | New | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-Met Ed | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Misc. | Cooking | ROB | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-Met Ed | Electric combination oven (Energy Star) | Standard Oven | Misc. | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 3.1 |
| FE-Met Ed | Electric combination oven (Energy Star) | Standard Oven | Misc. | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 3.1 |
| FE-Met Ed | Electric Convection Oven | Conventional convection oven w/ 65% efficiency | Misc. | Cooking | Early | oven | 8,641 | 37% | 0.6 | 12 | \$4,119 | 81% | 0.5 |
| FE-Met Ed | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Misc. | Cooking | New | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.8 |
| FE-Met Ed | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Misc. | Cooking | ROB | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.8 |
| FE-Met Ed | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Misc. | Cooking | Early | fryer | 6,105 | 23% | 0.3 | 12 | \$9,241 | 86% | 0.1 |
| FE-Met Ed | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Misc. | Cooking | New | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.4 |
| FE-Met Ed | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Misc. | Cooking | ROB | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.4 |
| FE-Met Ed | High Efficiency Griddle (ENERGY STAR) | Efficiency code minimum griddle (70% eff) | Misc. | Cooking | Early | griddle | 11,317 | 65% | 1.4 | 12 | \$4,977 | 86% | 0.9 |
| FE-Met Ed | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Misc. | Cooking | New | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.3 |
| FE-Met Ed | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Misc. | Cooking | ROB | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.3 |
| FE-Met Ed | High Efficiency Induction Cooking | Standard Cooking | Misc. | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-Met Ed | High Efficiency Induction Cooking | Standard Cooking | Misc. | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Misc. | Cooling Central | Existing | building | 2,465 | 7.0% | 0.07 | 6 | \$12,345 | 82% | 0.0 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Misc. | Cooling Central | New | building | 2,465 | 7.0% | 0.07 | 6 | \$12,345 | 82% | 0.0 |
| FE-Met Ed | Adding window shade film | No shade film | Misc. | Cooling Central | Existing | building | 2,465 | 1.3% | 0.4 | 10 | \$30 | 13% | 9.2 |
| FE-Met Ed | Adding window shade film | No shade film | Misc. | Cooling Central | New | building | 2,465 | 1.3% | 0.4 | 10 | \$30 | 13% | 9.2 |
| FE-Met Ed | Adding window shade screen | No shade screen | Misc. | Cooling Central | Existing | building | 2,465 | 1.1% | 0.01 | 10 | \$12 | 13% | 1.5 |
| FE-Met Ed | Adding window shade screen | No shade screen | Misc. | Cooling Central | New | building | 2,465 | 1.0% | 0.01 | 10 | \$12 | 13% | 1.5 |
| FE-Met Ed | Automated control system | Manual Controls | Misc. | Cooling Central | Existing | building | 2,465 | 17% | 0.2 | 15 | \$2,698 | 51% | 0.1 |
| FE-Met Ed | Automated control system | Manual Controls | Misc. | Cooling Central | New | building | 2,465 | 17% | 0.2 | 15 | \$2,698 | 94% | 0.1 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Misc. | Cooling Central | Existing | building | 2,465 | 4.9% | 0.05 | 15 | \$17,130 | 71% | 0.0 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Misc. | Cooling Central | New | building | 2,465 | 1.7% | 0.02 | 15 | \$16,283 | 94% | 0.0 |
| FE-Met Ed | Chiller Tuneup/Diagnostics | No tuneup | Misc. | Cooling Central | Existing | building | 2,465 | 8.0% | 0.08 | 10 | \$6,293 | 59% | 0.0 |
| FE-Met Ed | Chiller Tuneup/Diagnostics | No tuneup | Misc. | Cooling Central | New | building | 2,465 | 8.0% | 0.08 | 10 | \$6,293 | 59% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|--|---|---------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Misc. | Cooling Central | Existing | building | 2,465 | 1.4% | 0.04 | 15 | \$20 | 20% | 2.9 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Misc. | Cooling Central | New | building | 2,465 | 1.4% | 0.04 | 15 | \$20 | 10% | 2.9 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Misc. | Cooling Central | Existing | building | 2,465 | 7.0% | 0.07 | 15 | \$10,932 | 25% | 0.0 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Misc. | Cooling Central | New | building | 2,465 | 7.0% | 0.07 | 15 | \$10,932 | 35% | 0.0 |
| FE-Met Ed | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Misc. | Cooling Central | Early | ton | 5,094 | 24% | 0.4 | 15 | \$108,550 | 88% | 0.0 |
| FE-Met Ed | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Misc. | Cooling Central | New | ton | 4,164 | 6.7% | 0.10 | 15 | \$12,927 | 88% | 0.0 |
| FE-Met Ed | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Misc. | Cooling Central | ROB | ton | 4,164 | 6.7% | 0.10 | 15 | \$12,927 | 88% | 0.0 |
| FE-Met Ed | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Misc. | Cooling Central | Early | ton | 7,611 | 23% | 0.6 | 15 | \$140,105 | 88% | 0.0 |
| FE-Met Ed | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Misc. | Cooling Central | New | ton | 6,124 | 4.9% | 0.1 | 15 | \$9,336 | 88% | 0.0 |
| FE-Met Ed | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Misc. | Cooling Central | ROB | ton | 6,124 | 4.9% | 0.1 | 15 | \$9,336 | 88% | 0.0 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Misc. | Cooling Central | Early | ton | 62,308 | 26% | 5.6 | 15 | \$105,354 | 88% | 0.1 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Misc. | Cooling Central | New | ton | 54,288 | 15% | 2.8 | 15 | \$30,530 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Misc. | Cooling Central | ROB | ton | 54,288 | 15% | 2.8 | 15 | \$30,530 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Misc. | Cooling Central | Early | ton | 93,320 | 23% | 7.4 | 15 | \$154,107 | 88% | 0.1 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Misc. | Cooling Central | New | ton | 85,726 | 16% | 4.8 | 15 | \$27,646 | 88% | 0.4 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Misc. | Cooling Central | ROB | ton | 93,320 | 23% | 7.4 | 15 | \$27,646 | 88% | 0.7 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Misc. | Cooling Central | Early | ton | 154,988 | 23% | 12.2 | 15 | \$302,924 | 88% | 0.1 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Misc. | Cooling Central | New | ton | 140,275 | 14% | 7.0 | 15 | \$115,432 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Misc. | Cooling Central | ROB | ton | 154,988 | 23% | 12.2 | 15 | \$115,432 | 88% | 0.3 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Misc. | Cooling Central | Early | ton | 185,985 | 23% | 14.6 | 15 | \$350,154 | 88% | 0.1 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Misc. | Cooling Central | New | ton | 168,330 | 14% | 8.5 | 15 | \$120,406 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Misc. | Cooling Central | ROB | ton | 185,985 | 23% | 14.6 | 15 | \$120,406 | 88% | 0.3 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Misc. | Cooling Central | Early | ton | 41,225 | 29% | 4.2 | 15 | \$83,632 | 88% | 0.1 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Misc. | Cooling Central | New | ton | 32,011 | 9.0% | 1.0 | 15 | \$40,211 | 88% | 0.1 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Misc. | Cooling Central | ROB | ton | 41,225 | 29% | 4.2 | 15 | \$40,211 | 88% | 0.3 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Misc. | Cooling Central | Early | ton | 70,835 | 35% | 8.6 | 15 | \$132,173 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Misc. | Cooling Central | New | ton | 52,831 | 13% | 2.3 | 15 | \$39,556 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Misc. | Cooling Central | ROB | ton | 52,831 | 13% | 2.3 | 15 | \$39,556 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Misc. | Cooling Central | Early | ton | 118,265 | 39% | 16.1 | 15 | \$187,029 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Misc. | Cooling Central | New | ton | 84,321 | 15% | 4.3 | 15 | \$33,554 | 88% | 0.3 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Misc. | Cooling Central | ROB | ton | 118,265 | 39% | 16.1 | 15 | \$33,554 | 88% | 1.2 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Misc. | Cooling Central | Early | ton | 20,695 | 30% | 2.1 | 15 | \$32,398 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Misc. | Cooling Central | New | ton | 16,396 | 11% | 0.6 | 15 | \$7,188 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Misc. | Cooling Central | ROB | ton | 20,695 | 30% | 2.1 | 15 | \$7,188 | 88% | 0.8 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Misc. | Cooling Central | Existing | building | 2,465 | 2.2% | 0.02 | 10 | \$41,718 | 81% | 0.0 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Misc. | Cooling Central | New | building | 2,465 | 2.2% | 0.02 | 10 | \$41,718 | 81% | 0.0 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Misc. | Cooling Central | Existing | building | 2,465 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.1 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Misc. | Cooling Central | New | building | 2,465 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.2 |
| FE-Met Ed | Re-Commissioning (Existing Construction) | No Re-Commissioning | Misc. | Cooling Central | Existing | building | 2,465 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |
| FE-Met Ed | Wall Insulations (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Misc. | Cooling Central | Existing | building | 2,465 | 14% | 0.1 | 15 | \$5,133 | 26% | 0.1 |
| FE-Met Ed | Wall Insulations (Going upto R 21) | Code minimum Wall Insulations | Misc. | Cooling Central | New | building | 2,465 | 0.4% | 0.00 | 15 | \$3,937 | 94% | 0.0 |
| FE-Met Ed | <65k BTU/hr 14 SEER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Misc. | Cooling Unitary | Early | ton | 2,567 | 16% | 0.2 | 15 | \$1,545 | 29% | 0.3 |
| FE-Met Ed | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Misc. | Cooling Unitary | New | ton | 2,325 | 7.1% | 0.09 | 15 | \$339 | 29% | 0.5 |
| FE-Met Ed | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Misc. | Cooling Unitary | ROB | ton | 2,325 | 7.1% | 0.09 | 15 | \$339 | 29% | 0.5 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|--|---------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | <65k BTU/hr 15 SEER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Misc. | Cooling Unitary | Early | ton | 2,567 | 22% | 0.3 | 15 | \$1,821 | 30% | 0.3 |
| FE-Met Ed | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Misc. | Cooling Unitary | New | ton | 2,325 | 13% | 0.2 | 15 | \$714 | 30% | 0.5 |
| FE-Met Ed | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Misc. | Cooling Unitary | ROB | ton | 2,325 | 13% | 0.2 | 15 | \$714 | 30% | 0.5 |
| FE-Met Ed | <65k BTU/hr 16 SEER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Misc. | Cooling Unitary | Early | ton | 2,567 | 26% | 0.4 | 15 | \$2,098 | 31% | 0.3 |
| FE-Met Ed | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Misc. | Cooling Unitary | New | ton | 2,325 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.4 |
| FE-Met Ed | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Misc. | Cooling Unitary | ROB | ton | 2,325 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.4 |
| FE-Met Ed | >760k min 10.2 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Misc. | Cooling Unitary | Early | ton | 64,948 | 3.7% | 1.3 | 15 | \$68,066 | 56% | 0.0 |
| FE-Met Ed | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Misc. | Cooling Unitary | New | ton | 65,780 | 4.9% | 1.7 | 15 | \$6,231 | 56% | 0.6 |
| FE-Met Ed | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Misc. | Cooling Unitary | ROB | ton | 65,780 | 4.9% | 1.7 | 15 | \$6,231 | 56% | 0.6 |
| FE-Met Ed | 135-240k min 12 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Misc. | Cooling Unitary | Early | ton | 15,981 | 18% | 1.5 | 15 | \$18,135 | 79% | 0.2 |
| FE-Met Ed | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Misc. | Cooling Unitary | New | ton | 14,537 | 10.0% | 0.8 | 15 | \$1,948 | 65% | 0.8 |
| FE-Met Ed | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Misc. | Cooling Unitary | ROB | ton | 14,537 | 10.0% | 0.8 | 15 | \$1,948 | 79% | 0.8 |
| FE-Met Ed | 240k-760k min 11 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Misc. | Cooling Unitary | Early | ton | 42,835 | 9.3% | 2.0 | 15 | \$44,809 | 66% | 0.1 |
| FE-Met Ed | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Misc. | Cooling Unitary | New | ton | 42,835 | 9.3% | 2.1 | 15 | \$4,796 | 66% | 0.9 |
| FE-Met Ed | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Misc. | Cooling Unitary | ROB | ton | 42,835 | 9.3% | 2.1 | 15 | \$4,796 | 66% | 0.9 |
| FE-Met Ed | 65k-135k BTU/hr 12 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Misc. | Cooling Unitary | Early | ton | 9,420 | 17% | 0.8 | 15 | \$10,946 | 86% | 0.2 |
| FE-Met Ed | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Misc. | Cooling Unitary | New | ton | 8,396 | 6.7% | 0.3 | 15 | \$1,392 | 86% | 0.4 |
| FE-Met Ed | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Misc. | Cooling Unitary | ROB | ton | 8,396 | 6.7% | 0.3 | 15 | \$1,392 | 86% | 0.4 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Misc. | Cooling Unitary | Existing | building | 29,399 | 7.0% | 0.07 | 6 | \$12,345 | 82% | 0.0 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Misc. | Cooling Unitary | New | building | 29,399 | 7.0% | 0.07 | 6 | \$12,345 | 82% | 0.0 |
| FE-Met Ed | Adding window shade film | No shade film | Misc. | Cooling Unitary | Existing | building | 29,399 | 1.3% | 0.4 | 10 | \$358 | 12% | 1.2 |
| FE-Met Ed | Adding window shade film | No shade film | Misc. | Cooling Unitary | New | building | 29,399 | 1.3% | 0.4 | 10 | \$358 | 13% | 1.2 |
| FE-Met Ed | Adding window shade screen | No shade screen | Misc. | Cooling Unitary | Existing | building | 29,399 | 1.1% | 0.01 | 10 | \$138 | 12% | 1.0 |
| FE-Met Ed | Adding window shade screen | No shade screen | Misc. | Cooling Unitary | New | building | 29,399 | 1.1% | 0.01 | 10 | \$138 | 13% | 1.0 |
| FE-Met Ed | Automated control system | Manual Controls | Misc. | Cooling Unitary | Existing | building | 29,399 | 17% | 0.2 | 15 | \$32,185 | 51% | 0.1 |
| FE-Met Ed | Automated control system | Manual Controls | Misc. | Cooling Unitary | New | building | 29,399 | 17% | 0.2 | 15 | \$32,185 | 94% | 0.1 |
| FE-Met Ed | Ceiling Insulations (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Misc. | Cooling Unitary | Existing | building | 29,399 | 4.9% | 0.05 | 15 | \$17,130 | 71% | 0.1 |
| FE-Met Ed | Ceiling Insulations (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Misc. | Cooling Unitary | New | building | 29,399 | 1.7% | 0.02 | 15 | \$16,283 | 94% | 0.0 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Misc. | Cooling Unitary | Existing | building | 29,399 | 1.4% | 0.04 | 15 | \$234 | 20% | 1.2 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Misc. | Cooling Unitary | New | building | 29,399 | 1.4% | 0.04 | 15 | \$234 | 10% | 1.1 |
| FE-Met Ed | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Misc. | Cooling Unitary | Existing | building | 16,170 | 13% | 0.1 | 1 | \$155 | 73% | 0.8 |
| FE-Met Ed | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Misc. | Cooling Unitary | New | building | 16,170 | 13% | 0.1 | 1 | \$155 | 73% | 0.8 |
| FE-Met Ed | ECM Motors for split systems | Std Shaded Pole Motor | Misc. | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 3.0 |
| FE-Met Ed | ECM Motors for split systems | Std Shaded Pole Motor | Misc. | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 3.0 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Misc. | Cooling Unitary | Existing | building | 29,399 | 7.1% | 0.07 | 15 | \$130,408 | 25% | 0.0 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Misc. | Cooling Unitary | New | building | 29,399 | 7.1% | 0.07 | 15 | \$130,408 | 35% | 0.0 |
| FE-Met Ed | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Misc. | Cooling Unitary | Existing | building | 29,399 | 5.0% | 0.05 | 5 | \$225 | 59% | 1.5 |
| FE-Met Ed | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Misc. | Cooling Unitary | Existing | building | 29,399 | 0.5% | 0.05 | 5 | \$225 | 51% | 0.2 |
| FE-Met Ed | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Misc. | Cooling Unitary | New | building | 29,399 | 0.5% | 0.05 | 5 | \$135 | 51% | 0.4 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Misc. | Cooling Unitary | Existing | building | 29,399 | 2.2% | 0.02 | 10 | \$44,835 | 86% | 0.0 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Misc. | Cooling Unitary | New | building | 29,399 | 2.2% | 0.02 | 10 | \$44,835 | 86% | 0.0 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) | Misc. | Cooling Unitary | Existing | building | 29,399 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.9 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Misc. | Cooling Unitary | New | building | 29,399 | 1.7% | 0.02 | 11 | \$146 | 49% | 1.6 |
| FE-Met Ed | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Misc. | Cooling Unitary | Early | unit | 180 | 19% | 0.09 | 15 | \$849 | 85% | 0.1 |
| FE-Met Ed | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Misc. | Cooling Unitary | New | unit | 182 | 20% | 0.09 | 15 | \$356 | 85% | 0.3 |
| FE-Met Ed | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Misc. | Cooling Unitary | ROB | unit | 182 | 20% | 0.09 | 15 | \$356 | 85% | 0.3 |
| FE-Met Ed | Re-Commissioning (Existing Construction) | No Re-Commissioning | Misc. | Cooling Unitary | Existing | building | 29,399 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.1 |
| FE-Met Ed | Room AC (w/ louvered sides) | Existing efficiency Room AC in Pennsylvania (2000 Federal Standards) | Misc. | Cooling Unitary | Early | ton | 1,185 | 13% | 0.06 | 9 | \$348 | 82% | 0.3 |
| FE-Met Ed | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Misc. | Cooling Unitary | New | ton | 1,074 | 4.5% | 0.02 | 9 | \$17 | 82% | 1.6 |
| FE-Met Ed | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Misc. | Cooling Unitary | ROB | ton | 1,074 | 4.5% | 0.02 | 9 | \$17 | 82% | 1.6 |
| FE-Met Ed | Wall Insulations (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Misc. | Cooling Unitary | Existing | building | 29,399 | 14% | 0.1 | 15 | \$5,133 | 26% | 0.5 |
| FE-Met Ed | Wall Insulations (Going upto R 21) | Code minimum Wall Insulations | Misc. | Cooling Unitary | New | building | 29,399 | 0.4% | 0.00 | 15 | \$3,937 | 94% | 0.0 |
| FE-Met Ed | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Misc. | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 1.2 |
| FE-Met Ed | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Misc. | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.6 |
| FE-Met Ed | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Misc. | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.6 |
| FE-Met Ed | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Misc. | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 0% | 0.2 |
| FE-Met Ed | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Misc. | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-Met Ed | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Misc. | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-Met Ed | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Misc. | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 53% | 0.3 |
| FE-Met Ed | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Misc. | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 53% | 0.2 |
| FE-Met Ed | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Misc. | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 53% | 2.9 |
| FE-Met Ed | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Misc. | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 53% | 2.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|--|--|---------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Misc. | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 53% | 2.9 |
| FE-Met Ed | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Misc. | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 53% | 2.2 |
| FE-Met Ed | Photocell Controls (Outdoor) | Lighting w/ No Controls | Misc. | Ext. Lighting | Existing | building | 236 | 28% | 0.3 | 8 | \$4,908 | 88% | 0.0 |
| FE-Met Ed | Photocell Controls (Outdoor) | Lighting w/ No Controls | Misc. | Ext. Lighting | New | building | 236 | 28% | 0.3 | 8 | \$4,908 | 0% | 0.0 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Misc. | Heat Pump | Existing | building | 2,506 | 6.9% | 0.07 | 6 | \$12,345 | 82% | 0.0 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Misc. | Heat Pump | New | building | 2,506 | 6.9% | 0.07 | 6 | \$12,345 | 82% | 0.0 |
| FE-Met Ed | Adding window shade film | No shade film | Misc. | Heat Pump | Existing | building | 2,506 | 3.9% | 0.4 | 10 | \$30 | 12% | 9.9 |
| FE-Met Ed | Adding window shade film | No shade film | Misc. | Heat Pump | New | building | 2,506 | 3.9% | 0.4 | 10 | \$30 | 12% | 9.9 |
| FE-Met Ed | Adding window shade screen | No shade screen | Misc. | Heat Pump | Existing | building | 2,506 | 0.3% | 0.01 | 10 | \$3.9 | 12% | 2.6 |
| FE-Met Ed | Adding window shade screen | No shade screen | Misc. | Heat Pump | New | building | 2,506 | 0.3% | 0.01 | 10 | \$3.9 | 12% | 2.6 |
| FE-Met Ed | Automated control system | Manual Controls | Misc. | Heat Pump | Existing | building | 2,506 | 17% | 0.2 | 15 | \$2,744 | 51% | 0.1 |
| FE-Met Ed | Automated control system | Manual Controls | Misc. | Heat Pump | New | building | 2,506 | 17% | 0.2 | 15 | \$2,744 | 94% | 0.1 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Misc. | Heat Pump | Existing | building | 2,506 | 4.9% | 0.05 | 15 | \$17,130 | 71% | 0.0 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Misc. | Heat Pump | New | building | 2,506 | 1.7% | 0.02 | 15 | \$16,283 | 94% | 0.0 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Misc. | Heat Pump | Existing | building | 2,506 | 4.0% | 0.04 | 15 | \$20 | 12% | 4.6 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Misc. | Heat Pump | New | building | 2,506 | 4.0% | 0.04 | 15 | \$20 | 6% | 4.6 |
| FE-Met Ed | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Misc. | Heat Pump | Early | heat pump | 2,281 | 12% | 0.02 | 15 | \$4,070 | 83% | 0.0 |
| FE-Met Ed | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Misc. | Heat Pump | New | heat pump | 2,182 | 7.8% | 0.01 | 15 | \$1,097 | 83% | 0.1 |
| FE-Met Ed | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Misc. | Heat Pump | ROB | heat pump | 2,182 | 7.8% | 0.01 | 15 | \$1,097 | 83% | 0.1 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Misc. | Heat Pump | Existing | building | 2,506 | 7.0% | 0.07 | 15 | \$11,118 | 25% | 0.0 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Misc. | Heat Pump | New | building | 2,506 | 7.0% | 0.07 | 15 | \$11,118 | 35% | 0.0 |
| FE-Met Ed | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Misc. | Heat Pump | Early | heat pump | 23,587 | 16% | 0.3 | 15 | \$91,117 | 19% | 0.0 |
| FE-Met Ed | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Misc. | Heat Pump | New | heat pump | 22,730 | 13% | 0.3 | 15 | \$33,927 | 19% | 0.1 |
| FE-Met Ed | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Misc. | Heat Pump | ROB | heat pump | 22,730 | 13% | 0.3 | 15 | \$33,927 | 19% | 0.1 |
| FE-Met Ed | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Misc. | Heat Pump | Early | heat pump | 23,587 | 16% | 0.3 | 15 | \$58,356 | 19% | 0.0 |
| FE-Met Ed | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Misc. | Heat Pump | New | heat pump | 22,730 | 13% | 0.3 | 15 | \$1,167 | 19% | 1.6 |
| FE-Met Ed | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Misc. | Heat Pump | ROB | heat pump | 22,730 | 13% | 0.3 | 15 | \$1,167 | 19% | 1.6 |
| FE-Met Ed | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Misc. | Heat Pump | Early | heat pump | 6,103 | 17% | 0.09 | 12 | \$4,298 | 81% | 0.1 |
| FE-Met Ed | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Misc. | Heat Pump | New | heat pump | 5,819 | 12% | 0.06 | 12 | \$852 | 81% | 0.4 |
| FE-Met Ed | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Misc. | Heat Pump | ROB | heat pump | 5,819 | 12% | 0.06 | 12 | \$852 | 81% | 0.4 |
| FE-Met Ed | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Misc. | Heat Pump | Existing | building | 2,506 | 5.0% | 0.01 | 5 | \$90 | 51% | 0.3 |
| FE-Met Ed | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Misc. | Heat Pump | New | building | 2,506 | 5.0% | 0.01 | 5 | \$90 | 51% | 0.3 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Misc. | Heat Pump | Existing | building | 2,506 | 2.2% | 0.02 | 10 | \$39,918 | 81% | 0.0 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Misc. | Heat Pump | New | building | 2,506 | 2.2% | 0.02 | 10 | \$39,918 | 81% | 0.0 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Misc. | Heat Pump | Existing | building | 2,506 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.1 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Misc. | Heat Pump | New | building | 2,506 | 2.1% | 0.02 | 11 | \$146 | 49% | 0.3 |
| FE-Met Ed | Re-Commissioning (Existing Construction) | No Re-Commissioning | Misc. | Heat Pump | Existing | building | 2,506 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Misc. | Heat Pump | Existing | building | 2,506 | 14% | 0.1 | 15 | \$5,133 | 26% | 0.1 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Misc. | Heat Pump | New | building | 2,506 | 0.4% | 0.00 | 15 | \$3,937 | 94% | 0.0 |
| FE-Met Ed | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Misc. | Heat Pump | Early | heat pump | 9,790 | 35% | 0.3 | 15 | \$35,347 | 28% | 0.1 |
| FE-Met Ed | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Misc. | Heat Pump | New | heat pump | 9,304 | 31% | 0.3 | 15 | \$15,739 | 28% | 0.1 |
| FE-Met Ed | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Misc. | Heat Pump | ROB | heat pump | 9,304 | 31% | 0.3 | 15 | \$15,739 | 28% | 0.1 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Misc. | High Bay Lighting | Early | Fixture | 596 | 9.6% | 0.01 | 13 | \$850 | 39% | 0.0 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Misc. | High Bay Lighting | Early | Fixture | 595 | 9.5% | 0.01 | 13 | \$850 | 28% | 0.0 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Misc. | High Bay Lighting | Early | Fixture | 919 | 41% | 0.09 | 13 | \$850 | 36% | 0.3 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Misc. | High Bay Lighting | New | Fixture | 453 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Misc. | High Bay Lighting | New | Fixture | 422 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Misc. | High Bay Lighting | New | Fixture | 699 | 41% | 0.07 | 13 | \$397 | 36% | 0.5 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Misc. | High Bay Lighting | ROB | Fixture | 596 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Misc. | High Bay Lighting | ROB | Fixture | 555 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Misc. | High Bay Lighting | ROB | Fixture | 919 | 41% | 0.09 | 13 | \$397 | 36% | 0.7 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Misc. | High Bay Lighting | Early | Fixture | 1,157 | 19% | 0.05 | 13 | \$851 | 38% | 0.2 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Misc. | High Bay Lighting | Early | Fixture | 1,171 | 20% | 0.06 | 13 | \$851 | 38% | 0.2 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | Early | Fixture | 3,407 | 73% | 0.6 | 13 | \$851 | 38% | 2.0 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Misc. | High Bay Lighting | New | Fixture | 879 | 19% | 0.04 | 13 | \$372 | 38% | 0.3 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | New | Fixture | 2,590 | 73% | 0.5 | 13 | \$383 | 38% | 3.4 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Misc. | High Bay Lighting | ROB | Fixture | 1,157 | 19% | 0.05 | 13 | \$372 | 38% | 0.4 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | ROB | Fixture | 3,407 | 73% | 0.6 | 13 | \$383 | 38% | 4.5 |
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Misc. | High Bay Lighting | Early | Fixture | 1,157 | 25% | 0.07 | 13 | \$554 | 29% | 0.4 |
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Misc. | High Bay Lighting | Early | Fixture | 1,136 | 23% | 0.06 | 13 | \$554 | 28% | 0.3 |
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | Early | Fixture | 3,407 | 74% | 0.6 | 13 | \$554 | 36% | 3.2 |
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Misc. | High Bay Lighting | New | Fixture | 879 | 25% | 0.05 | 13 | \$75 | 29% | 2.0 |
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | New | Fixture | 2,590 | 74% | 0.5 | 13 | \$86 | 36% | 15.8 |
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Misc. | High Bay Lighting | ROB | Fixture | 1,157 | 25% | 0.07 | 13 | \$75 | 29% | 2.7 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|---|---------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | ROB | Fixture | 3,407 | 74% | 0.6 | 13 | \$86 | 36% | 20.8 |
| FE-Met Ed | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Misc. | High Bay Lighting | Early | Fixture | 302 | 0.2% | 0.00 | 13 | \$835 | 38% | 0.0 |
| FE-Met Ed | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Misc. | High Bay Lighting | Early | Fixture | 650 | 54% | 0.09 | 13 | \$835 | 38% | 0.3 |
| FE-Met Ed | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Misc. | High Bay Lighting | New | Fixture | 494 | 54% | 0.06 | 13 | \$382 | 38% | 0.5 |
| FE-Met Ed | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Misc. | High Bay Lighting | ROB | Fixture | 650 | 54% | 0.09 | 13 | \$382 | 38% | 0.6 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Misc. | High Bay Lighting | Early | Fixture | 1,474 | 18% | 0.07 | 13 | \$487 | 25% | 0.4 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Misc. | High Bay Lighting | Early | Fixture | 1,541 | 22% | 0.08 | 13 | \$487 | 28% | 0.5 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | Early | Fixture | 3,407 | 65% | 0.5 | 13 | \$487 | 36% | 3.2 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Misc. | High Bay Lighting | New | Fixture | 1,120 | 18% | 0.05 | 13 | \$16 | 25% | 8.8 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | New | Fixture | 2,590 | 65% | 0.4 | 13 | \$18 | 36% | 63.9 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Misc. | High Bay Lighting | ROB | Fixture | 1,474 | 18% | 0.07 | 13 | \$16 | 25% | 11.6 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | ROB | Fixture | 3,407 | 65% | 0.5 | 13 | \$18 | 36% | 84.1 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Misc. | High Bay Lighting | Early | Fixture | 1,474 | 1.5% | 0.01 | 13 | \$557 | 19% | 0.0 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Misc. | High Bay Lighting | Early | Fixture | 1,517 | 4.3% | 0.02 | 13 | \$557 | 19% | 0.1 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | Early | Fixture | 3,407 | 57% | 0.5 | 13 | \$557 | 19% | 2.5 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Misc. | High Bay Lighting | New | Fixture | 1,120 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | New | Fixture | 2,590 | 57% | 0.4 | 13 | \$88 | 19% | 11.8 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Misc. | High Bay Lighting | ROB | Fixture | 1,474 | 1.5% | 0.01 | 13 | \$86 | 19% | 0.2 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | ROB | Fixture | 3,407 | 57% | 0.5 | 13 | \$88 | 19% | 15.6 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Misc. | High Bay Lighting | Early | Fixture | 626 | 29% | 0.03 | 13 | \$492 | 71% | 0.2 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Misc. | High Bay Lighting | Early | Fixture | 523 | 15% | 0.01 | 13 | \$492 | 95% | 0.1 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Misc. | High Bay Lighting | Early | Fixture | 777 | 43% | 0.06 | 13 | \$492 | 95% | 0.4 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Misc. | High Bay Lighting | Early | Fixture | 721 | 38% | 0.05 | 13 | \$492 | 95% | 0.4 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Misc. | High Bay Lighting | New | Fixture | 398 | 15% | 0.01 | 13 | \$25 | 95% | 1.5 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Misc. | High Bay Lighting | New | Fixture | 591 | 43% | 0.04 | 13 | \$51 | 95% | 3.1 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Misc. | High Bay Lighting | ROB | Fixture | 523 | 15% | 0.01 | 13 | \$25 | 95% | 2.0 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Misc. | High Bay Lighting | ROB | Fixture | 777 | 43% | 0.06 | 13 | \$51 | 95% | 4.1 |
| FE-Met Ed | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Misc. | High Bay Lighting | Early | lamp | 104 | 16% | 0.00 | 10 | \$7.7 | 99% | 1.2 |
| FE-Met Ed | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Misc. | High Bay Lighting | New | lamp | 62 | 13% | 0.00 | 10 | \$1.6 | 91% | 2.6 |
| FE-Met Ed | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Misc. | High Bay Lighting | ROB | lamp | 99 | 13% | 0.00 | 10 | \$1.6 | 91% | 4.1 |
| FE-Met Ed | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Misc. | High Bay Lighting | Early | Fixture | 3,487 | 23% | 0.2 | 13 | \$613 | 5% | 0.9 |
| FE-Met Ed | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Misc. | High Bay Lighting | Early | Fixture | 2,739 | 1.6% | 0.01 | 13 | \$613 | 28% | 0.1 |
| FE-Met Ed | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | Early | Fixture | 6,815 | 60% | 1.0 | 13 | \$613 | 18% | 4.7 |
| FE-Met Ed | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Misc. | High Bay Lighting | New | Fixture | 2,650 | 23% | 0.1 | 13 | \$96 | 5% | 4.4 |
| FE-Met Ed | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Misc. | High Bay Lighting | ROB | Fixture | 3,487 | 23% | 0.2 | 13 | \$96 | 5% | 5.8 |
| FE-Met Ed | Auto Off Time Switch | Lighting w/ No Controls | Misc. | High Bay Lighting | Existing | building | 2,085 | 24% | 0.2 | 8 | \$997 | 13% | 0.3 |
| FE-Met Ed | Auto Off Time Switch | Lighting w/ No Controls | Misc. | High Bay Lighting | New | building | 2,085 | 6.9% | 0.07 | 8 | \$997 | 0% | 0.1 |
| FE-Met Ed | Central Lighting Control System | Lighting w/ No Controls | Misc. | High Bay Lighting | Existing | building | 2,085 | 38% | 0.4 | 8 | \$997 | 13% | 0.5 |
| FE-Met Ed | Central Lighting Control System | Lighting w/ No Controls | Misc. | High Bay Lighting | New | building | 2,085 | 14% | 0.1 | 8 | \$997 | 13% | 0.2 |
| FE-Met Ed | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Misc. | High Bay Lighting | New | building | 2,085 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.0 |
| FE-Met Ed | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Misc. | High Bay Lighting | New | building | 2,085 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |
| FE-Met Ed | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Misc. | High Bay Lighting | New | building | 2,085 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| FE-Met Ed | Indoor Daylight Sensors | Lighting w/ No Controls | Misc. | High Bay Lighting | Existing | building | 2,085 | 28% | 0.3 | 8 | \$4,908 | 13% | 0.1 |
| FE-Met Ed | Indoor Daylight Sensors | Lighting w/ No Controls | Misc. | High Bay Lighting | New | building | 2,085 | 4.0% | 0.04 | 8 | \$4,908 | 0% | 0.0 |
| FE-Met Ed | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Misc. | High Bay Lighting | Early | Fixture | 3,487 | 92% | 0.8 | 13 | \$1,916 | 95% | 1.2 |
| FE-Met Ed | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | Early | Fixture | 6,815 | 96% | 1.6 | 13 | \$1,916 | 95% | 2.4 |
| FE-Met Ed | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Misc. | High Bay Lighting | New | Fixture | 2,650 | 92% | 0.6 | 13 | \$1,468 | 95% | 1.2 |
| FE-Met Ed | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | New | Fixture | 5,179 | 96% | 1.2 | 13 | \$1,149 | 95% | 3.0 |
| FE-Met Ed | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Misc. | High Bay Lighting | ROB | Fixture | 3,487 | 92% | 0.8 | 13 | \$1,468 | 95% | 1.5 |
| FE-Met Ed | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | ROB | Fixture | 6,815 | 96% | 1.6 | 13 | \$1,149 | 95% | 4.0 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Misc. | High Bay Lighting | Early | Fixture | 1,157 | 67% | 0.2 | 13 | \$960 | 95% | 0.6 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Misc. | High Bay Lighting | Early | Fixture | 3,407 | 89% | 0.7 | 13 | \$960 | 95% | 2.2 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Misc. | High Bay Lighting | Early | Fixture | 935 | 59% | 0.1 | 13 | \$960 | 95% | 0.4 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Misc. | High Bay Lighting | New | Fixture | 879 | 67% | 0.1 | 13 | \$480 | 95% | 0.9 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Misc. | High Bay Lighting | New | Fixture | 2,590 | 89% | 0.6 | 13 | \$491 | 95% | 3.3 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Misc. | High Bay Lighting | New | Fixture | 711 | 59% | 0.1 | 13 | \$406 | 95% | 0.7 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Misc. | High Bay Lighting | ROB | Fixture | 1,157 | 67% | 0.2 | 13 | \$480 | 95% | 1.1 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Misc. | High Bay Lighting | ROB | Fixture | 3,407 | 89% | 0.7 | 13 | \$491 | 95% | 4.3 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Misc. | High Bay Lighting | ROB | Fixture | 935 | 59% | 0.1 | 13 | \$406 | 95% | 0.9 |
| FE-Met Ed | Occupancy Sensor | Lighting w/ No Controls | Misc. | High Bay Lighting | Existing | building | 2,085 | 24% | 0.2 | 8 | \$1,503 | 12% | 0.2 |
| FE-Met Ed | Occupancy Sensor | Lighting w/ No Controls | Misc. | High Bay Lighting | New | building | 2,085 | 6.9% | 0.07 | 8 | \$1,503 | 0% | 0.1 |
| FE-Met Ed | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Misc. | High Bay Lighting | Existing | building | 2,085 | 28% | 0.3 | 8 | \$4,908 | 12% | 0.1 |
| FE-Met Ed | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Misc. | High Bay Lighting | New | building | 2,085 | 4.0% | 0.04 | 8 | \$4,908 | 0% | 0.0 |
| FE-Met Ed | Time Clock Control | Lighting w/ No Controls | Misc. | High Bay Lighting | Existing | building | 2,085 | 28% | 0.3 | 8 | \$997 | 13% | 0.4 |
| FE-Met Ed | Time Clock Control | Lighting w/ No Controls | Misc. | High Bay Lighting | New | building | 2,085 | 4.0% | 0.04 | 8 | \$997 | 0% | 0.1 |
| FE-Met Ed | Auto Off Time Switch | Lighting w/ No Controls | Misc. | Lin. Fluor. Lighting | Existing | building | 28,964 | 24% | 0.2 | 8 | \$997 | 13% | 2.4 |
| FE-Met Ed | Auto Off Time Switch | Lighting w/ No Controls | Misc. | Lin. Fluor. Lighting | New | building | 28,964 | 7.0% | 0.07 | 8 | \$997 | 0% | 0.7 |
| FE-Met Ed | Central Lighting Control System | Lighting w/ No Controls | Misc. | Lin. Fluor. Lighting | Existing | building | 28,964 | 38% | 0.4 | 8 | \$997 | 12% | 3.9 |
| FE-Met Ed | Central Lighting Control System | Lighting w/ No Controls | Misc. | Lin. Fluor. Lighting | New | building | 28,964 | 14% | 0.1 | 8 | \$997 | 12% | 1.4 |
| FE-Met Ed | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Misc. | Lin. Fluor. Lighting | New | building | 28,964 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.1 |
| FE-Met Ed | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Misc. | Lin. Fluor. Lighting | New | building | 28,964 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|--|---------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Misc. | Lin. Fluor. Lighting | New | building | 28,964 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| FE-Met Ed | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Misc. | Lin. Fluor. Lighting | Early | Lamp | 208 | 38% | 0.01 | 10 | \$7.3 | 94% | 5.5 |
| FE-Met Ed | Indoor Daylight Sensors | Lighting w/ No Controls | Misc. | Lin. Fluor. Lighting | Existing | building | 28,964 | 28% | 0.3 | 8 | \$4,908 | 13% | 0.6 |
| FE-Met Ed | Indoor Daylight Sensors | Lighting w/ No Controls | Misc. | Lin. Fluor. Lighting | New | building | 28,964 | 4.1% | 0.04 | 8 | \$4,908 | 0% | 0.1 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | Early | Lamp | 73 | 19% | 0.00 | 15 | \$35 | 94% | 0.3 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 40W T12 Lamp, Magnetic Ballast | Misc. | Lin. Fluor. Lighting | Early | Lamp | 161 | 63% | 0.03 | 15 | \$35 | 94% | 2.3 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | Early | Lamp | 90 | 34% | 0.01 | 15 | \$35 | 94% | 0.7 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | Early | Lamp | 87 | 32% | 0.01 | 15 | \$35 | 94% | 0.6 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | New | Lamp | 56 | 19% | 0.00 | 15 | \$28 | 94% | 0.3 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | New | Lamp | 66 | 32% | 0.01 | 15 | \$29 | 94% | 0.6 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | New | Lamp | 68 | 34% | 0.01 | 15 | \$22 | 94% | 0.9 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | New | Lamp | 66 | 32% | 0.01 | 15 | \$29 | 94% | 0.6 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | ROB | Lamp | 73 | 19% | 0.00 | 15 | \$28 | 94% | 0.4 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | ROB | Lamp | 87 | 32% | 0.01 | 15 | \$29 | 94% | 0.8 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | ROB | Lamp | 90 | 34% | 0.01 | 15 | \$22 | 94% | 1.1 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | ROB | Lamp | 87 | 32% | 0.01 | 15 | \$29 | 94% | 0.8 |
| FE-Met Ed | Occupancy Sensor | Lighting w/ No Controls | Misc. | Lin. Fluor. Lighting | Existing | building | 28,964 | 24% | 0.2 | 8 | \$1,503 | 13% | 1.6 |
| FE-Met Ed | Occupancy Sensor | Lighting w/ No Controls | Misc. | Lin. Fluor. Lighting | New | building | 28,964 | 7.0% | 0.07 | 8 | \$1,503 | 0% | 0.5 |
| FE-Met Ed | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Misc. | Lin. Fluor. Lighting | Existing | building | 28,964 | 28% | 0.3 | 8 | \$4,908 | 12% | 0.6 |
| FE-Met Ed | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Misc. | Lin. Fluor. Lighting | New | building | 28,964 | 4.1% | 0.04 | 8 | \$4,908 | 0% | 0.1 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 40W T12 w/ Magnetic Ballast | Misc. | Lin. Fluor. Lighting | Early | Lamp | 208 | 54% | 0.02 | 10 | \$9.1 | 94% | 6.4 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | Early | Lamp | 133 | 28% | 0.01 | 10 | \$9.1 | 24% | 2.1 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | Early | Lamp | 129 | 26% | 0.01 | 10 | \$9.1 | 94% | 1.9 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | New | Lamp | 98 | 26% | 0.00 | 10 | \$2.5 | 94% | 5.2 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | New | Lamp | 98 | 26% | 0.00 | 10 | \$2.5 | 94% | 5.2 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | New | Lamp | 101 | 28% | 0.00 | 10 | \$2.5 | 24% | 5.8 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | New | Lamp | 98 | 26% | 0.00 | 10 | \$2.5 | 94% | 5.2 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | ROB | Lamp | 129 | 26% | 0.01 | 10 | \$2.5 | 94% | 6.8 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | ROB | Lamp | 129 | 26% | 0.01 | 10 | \$2.5 | 94% | 6.8 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | ROB | Lamp | 133 | 28% | 0.01 | 10 | \$2.5 | 24% | 7.6 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | ROB | Lamp | 129 | 26% | 0.01 | 10 | \$2.5 | 94% | 6.8 |
| FE-Met Ed | T8 Lamp (any length) Electronic Ballast | Standard T12 lamp (any length) | Misc. | Lin. Fluor. Lighting | Early | Lamp | 245 | 42% | 0.02 | 10 | \$14 | 94% | 3.8 |
| FE-Met Ed | Time Clock Control | Lighting w/ No Controls | Misc. | Lin. Fluor. Lighting | Existing | building | 28,964 | 28% | 0.3 | 8 | \$997 | 14% | 2.8 |
| FE-Met Ed | Time Clock Control | Lighting w/ No Controls | Misc. | Lin. Fluor. Lighting | New | building | 28,964 | 4.1% | 0.04 | 8 | \$997 | 0% | 0.4 |
| FE-Met Ed | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | Early | motor | 3,361 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| FE-Met Ed | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | Early | motor | 3,361 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| FE-Met Ed | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | Early | motor | 3,361 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| FE-Met Ed | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | Early | motor | 3,361 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| FE-Met Ed | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | New | motor | 3,259 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-Met Ed | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | New | motor | 3,259 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-Met Ed | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | New | motor | 3,259 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-Met Ed | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | New | motor | 3,259 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-Met Ed | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 3,259 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-Met Ed | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 3,259 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-Met Ed | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 3,259 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-Met Ed | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 3,259 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-Met Ed | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | Early | motor | 4,956 | 3.1% | 0.02 | 15 | \$402 | 76% | 0.3 |
| FE-Met Ed | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | Early | motor | 4,956 | 3.1% | 0.02 | 15 | \$402 | 76% | 0.3 |
| FE-Met Ed | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | Early | motor | 4,956 | 3.1% | 0.02 | 15 | \$402 | 76% | 0.3 |
| FE-Met Ed | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | Early | motor | 4,956 | 3.1% | 0.02 | 15 | \$402 | 76% | 0.3 |
| FE-Met Ed | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | Early | motor | 4,956 | 3.1% | 0.02 | 15 | \$402 | 76% | 0.3 |
| FE-Met Ed | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | New | motor | 4,832 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.3 |
| FE-Met Ed | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | New | motor | 4,832 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.3 |
| FE-Met Ed | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | New | motor | 4,832 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.3 |
| FE-Met Ed | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | New | motor | 4,832 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.3 |
| FE-Met Ed | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | New | motor | 4,832 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.3 |
| FE-Met Ed | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 4,832 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.3 |
| FE-Met Ed | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 4,832 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.3 |
| FE-Met Ed | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 4,832 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.3 |
| FE-Met Ed | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 4,832 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.3 |
| FE-Met Ed | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 4,832 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.3 |
| FE-Met Ed | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 4,832 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.3 |
| FE-Met Ed | 100 HP Motor, Ultra-PE | 100 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | Early | motor | 295,570 | 1.7% | 0.6 | 15 | \$5,100 | 47% | 0.7 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|---|---------|---------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | New | motor | 219,972 | 0.6% | 0.1 | 15 | \$554 | 61% | 1.5 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | New | motor | 219,972 | 0.6% | 0.2 | 15 | \$554 | 61% | 1.6 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | New | motor | 219,972 | 0.6% | 0.1 | 15 | \$554 | 61% | 1.5 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 219,972 | 0.6% | 0.1 | 15 | \$554 | 61% | 1.5 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 219,972 | 0.6% | 0.1 | 15 | \$554 | 61% | 1.5 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 219,972 | 0.6% | 0.2 | 15 | \$554 | 61% | 1.6 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 219,972 | 0.6% | 0.1 | 15 | \$554 | 61% | 1.5 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Misc. | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 23.1 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Misc. | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 23.4 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Misc. | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 23.8 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Misc. | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 24.2 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Misc. | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 25.0 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Misc. | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 22.9 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Misc. | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 23.6 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Misc. | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 24.0 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Misc. | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 24.5 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Misc. | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 24.9 |
| FE-Met Ed | Escalator Motor Controller | Constant power control | Misc. | Motors | New | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 45% | 6.3 |
| FE-Met Ed | Escalator Motor Controller | Constant power control | Misc. | Motors | ROB | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 45% | 6.3 |
| FE-Met Ed | Variable Speed Drive Control, 15HP | Existing Motors w/out VSD Drive | Misc. | Motors | Early | motor | 45,928 | 70% | 4.7 | 15 | \$731 | 86% | 30.8 |
| FE-Met Ed | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Misc. | Motors | New | motor | 44,940 | 72% | 4.7 | 15 | \$731 | 86% | 30.8 |
| FE-Met Ed | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Misc. | Motors | ROB | motor | 44,940 | 72% | 4.7 | 15 | \$731 | 86% | 30.8 |
| FE-Met Ed | Variable Speed Drive Control, 40HP | Existing Motors w/out VSD Drive | Misc. | Motors | Early | motor | 119,841 | 71% | 12.5 | 15 | \$4,666 | 86% | 12.7 |
| FE-Met Ed | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Misc. | Motors | New | motor | 118,440 | 72% | 12.5 | 15 | \$4,666 | 86% | 12.7 |
| FE-Met Ed | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Misc. | Motors | ROB | motor | 118,440 | 72% | 12.5 | 15 | \$4,666 | 86% | 12.7 |
| FE-Met Ed | Variable Speed Drive Control, 5HP | Existing Motors w/out VFD Drive | Misc. | Motors | Early | motor | 15,922 | 72% | 1.7 | 15 | \$2,243 | 86% | 3.6 |
| FE-Met Ed | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Misc. | Motors | New | motor | 15,566 | 72% | 1.6 | 15 | \$2,243 | 86% | 3.5 |
| FE-Met Ed | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Misc. | Motors | ROB | motor | 15,566 | 72% | 1.6 | 15 | \$2,243 | 86% | 3.5 |
| FE-Met Ed | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Misc. | Motors | Early | motor | 4,943 | 23% | 0.1 | 15 | \$268 | 13% | 2.8 |
| FE-Met Ed | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Misc. | Motors | New | motor | 4,943 | 23% | 0.1 | 15 | \$268 | 13% | 2.8 |
| FE-Met Ed | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Misc. | Motors | ROB | motor | 4,943 | 23% | 0.1 | 15 | \$268 | 13% | 2.8 |
| FE-Met Ed | VFD on Chilled Water Pump | Motor w/out VFD Drive | Misc. | Motors | Early | motor | 16,590 | 55% | 1.2 | 15 | \$2,903 | 86% | 2.1 |
| FE-Met Ed | VFD on Chilled Water Pump | Motor w/out VFD Drive | Misc. | Motors | New | motor | 16,280 | 55% | 1.2 | 15 | \$2,843 | 86% | 2.1 |
| FE-Met Ed | VFD on Chilled Water Pump | Motor w/out VFD Drive | Misc. | Motors | ROB | motor | 16,280 | 55% | 1.2 | 15 | \$2,843 | 86% | 2.1 |
| FE-Met Ed | VFD on Condenser Water Pump | Motor w/out VFD Drive | Misc. | Motors | Early | motor | 18,641 | 32% | 0.8 | 15 | \$2,903 | 86% | 1.4 |
| FE-Met Ed | VFD on Condenser Water Pump | Motor w/out VFD Drive | Misc. | Motors | New | motor | 18,292 | 33% | 0.8 | 15 | \$2,843 | 86% | 1.4 |
| FE-Met Ed | VFD on Condenser Water Pump | Motor w/out VFD Drive | Misc. | Motors | ROB | motor | 18,292 | 33% | 0.8 | 15 | \$2,843 | 86% | 1.4 |
| FE-Met Ed | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Misc. | Motors | Early | motor | 27,718 | 56% | 2.0 | 15 | \$2,903 | 86% | 3.6 |
| FE-Met Ed | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Misc. | Motors | New | motor | 27,199 | 57% | 2.0 | 15 | \$2,843 | 86% | 3.6 |
| FE-Met Ed | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Misc. | Motors | ROB | motor | 27,199 | 57% | 2.0 | 15 | \$2,843 | 86% | 3.6 |
| FE-Met Ed | VFD on HVAC Fan | Motor w/out VFD | Misc. | Motors | Early | motor | 18,724 | 70% | 1.9 | 15 | \$2,903 | 86% | 3.2 |
| FE-Met Ed | VFD on HVAC Fan | Motor w/out VFD | Misc. | Motors | New | motor | 18,373 | 72% | 1.9 | 15 | \$2,843 | 86% | 3.2 |
| FE-Met Ed | VFD on HVAC Fan | Motor w/out VFD | Misc. | Motors | ROB | motor | 18,373 | 72% | 1.9 | 15 | \$2,843 | 86% | 3.2 |
| FE-Met Ed | Variable Speed Drives on Process Equipment | Constant speed control | Misc. | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 9% | 11.3 |
| FE-Met Ed | Variable Speed Drives on Process Equipment | Constant speed control | Misc. | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 9% | 11.3 |
| FE-Met Ed | Auto Off Time Switch | Lighting w/ No Controls | Misc. | Other Int. Lighting | Existing | building | 3,419 | 24% | 0.2 | 8 | \$997 | 13% | 0.4 |
| FE-Met Ed | Auto Off Time Switch | Lighting w/ No Controls | Misc. | Other Int. Lighting | New | building | 3,419 | 7.0% | 0.07 | 8 | \$997 | 0% | 0.1 |
| FE-Met Ed | Central Lighting Control System | Lighting w/ No Controls | Misc. | Other Int. Lighting | Existing | building | 3,419 | 38% | 0.4 | 8 | \$997 | 13% | 0.7 |
| FE-Met Ed | Central Lighting Control System | Lighting w/ No Controls | Misc. | Other Int. Lighting | New | building | 3,419 | 14% | 0.1 | 8 | \$997 | 13% | 0.2 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 40W Incandescent Bulb | Misc. | Other Int. Lighting | Early | lamp | 169 | 87% | 0.04 | 9 | \$30 | 14% | 2.6 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Misc. | Other Int. Lighting | Early | lamp | 121 | 81% | 0.02 | 9 | \$30 | 11% | 1.7 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Misc. | Other Int. Lighting | New | lamp | 92 | 81% | 0.02 | 9 | \$21 | 14% | 1.8 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Misc. | Other Int. Lighting | New | lamp | 92 | 81% | 0.02 | 9 | \$23 | 14% | 1.7 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Misc. | Other Int. Lighting | New | lamp | 92 | 81% | 0.02 | 9 | \$22 | 11% | 1.8 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Misc. | Other Int. Lighting | ROB | lamp | 121 | 81% | 0.02 | 9 | \$21 | 14% | 2.4 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Misc. | Other Int. Lighting | ROB | lamp | 121 | 81% | 0.02 | 9 | \$23 | 14% | 2.3 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Misc. | Other Int. Lighting | ROB | lamp | 121 | 81% | 0.02 | 9 | \$22 | 11% | 2.3 |
| FE-Met Ed | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Misc. | Other Int. Lighting | Early | lamp | 169 | 75% | 0.03 | 4 | \$73 | 24% | 0.5 |
| FE-Met Ed | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Misc. | Other Int. Lighting | New | fixture | 184 | 65% | 0.03 | 13 | \$29 | 28% | 2.9 |
| FE-Met Ed | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Misc. | Other Int. Lighting | New | lamp | 92 | 65% | 0.01 | 4 | \$29 | 28% | 0.5 |
| FE-Met Ed | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Misc. | Other Int. Lighting | ROB | fixture | 242 | 65% | 0.04 | 13 | \$29 | 24% | 3.9 |
| FE-Met Ed | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Misc. | Other Int. Lighting | ROB | lamp | 121 | 65% | 0.02 | 4 | \$29 | 24% | 0.7 |
| FE-Met Ed | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Misc. | Other Int. Lighting | Early | lamp | 169 | 75% | 0.03 | 4 | \$3.2 | 24% | 10.4 |
| FE-Met Ed | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Misc. | Other Int. Lighting | New | lamp | 92 | 65% | 0.01 | 4 | \$1.8 | 24% | 8.8 |
| FE-Met Ed | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Misc. | Other Int. Lighting | ROB | lamp | 121 | 65% | 0.02 | 4 | \$1.8 | 24% | 11.6 |
| FE-Met Ed | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Misc. | Other Int. Lighting | ROB | lamp | 121 | 65% | 0.02 | 4 | \$1.8 | 24% | 11.6 |
| FE-Met Ed | Exit Sign Retrofit: CFL replacing Incandescent | One 23W Single Sided Incandescent Exit Sign | Misc. | Other Int. Lighting | Early | exit sign | 136 | 42% | 0.01 | 15 | \$48 | 22% | 0.8 |
| FE-Met Ed | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Misc. | Other Int. Lighting | New | building | 3,419 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.0 |
| FE-Met Ed | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Misc. | Other Int. Lighting | New | building | 3,419 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |
| FE-Met Ed | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Misc. | Other Int. Lighting | New | building | 3,419 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| FE-Met Ed | Indoor Daylight Sensors | Lighting w/ No Controls | Misc. | Other Int. Lighting | Existing | building | 3,419 | 28% | 0.3 | 8 | \$4,908 | 13% | 0.1 |
| FE-Met Ed | Indoor Daylight Sensors | Lighting w/ No Controls | Misc. | Other Int. Lighting | New | building | 3,419 | 4.1% | 0.04 | 8 | \$4,908 | 0% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|--|---|---------|---------------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | LED Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Misc. | Other Int. Lighting | Early | sign | 88 | 78% | 0.01 | 15 | \$48 | 16% | 1.0 |
| FE-Met Ed | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Misc. | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 2.1 |
| FE-Met Ed | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Misc. | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 2.1 |
| FE-Met Ed | LED Task Lighting/Screw-In | 1 15W CFL bulb | Misc. | Other Int. Lighting | Early | lamp | 30 | 33% | 0.00 | 12 | \$9.6 | 24% | 0.6 |
| FE-Met Ed | LED Task Lighting/Screw-In | 1 60W Incandescent Bulb | Misc. | Other Int. Lighting | Early | lamp | 119 | 83% | 0.02 | 12 | \$9.6 | 24% | 6.4 |
| FE-Met Ed | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Misc. | Other Int. Lighting | New | lamp | 65 | 77% | 0.01 | 12 | \$7.9 | 24% | 3.9 |
| FE-Met Ed | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Misc. | Other Int. Lighting | New | lamp | 65 | 77% | 0.01 | 12 | \$7.9 | 24% | 3.9 |
| FE-Met Ed | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Misc. | Other Int. Lighting | ROB | lamp | 86 | 77% | 0.01 | 12 | \$7.9 | 24% | 5.1 |
| FE-Met Ed | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Misc. | Other Int. Lighting | ROB | lamp | 86 | 77% | 0.01 | 12 | \$7.9 | 24% | 5.1 |
| FE-Met Ed | Occupancy Sensor | Lighting w/ No Controls | Misc. | Other Int. Lighting | Existing | building | 3,419 | 24% | 0.2 | 8 | \$1,503 | 12% | 0.3 |
| FE-Met Ed | Occupancy Sensor | Lighting w/ No Controls | Misc. | Other Int. Lighting | New | building | 3,419 | 7.0% | 0.07 | 8 | \$1,503 | 0% | 0.1 |
| FE-Met Ed | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Misc. | Other Int. Lighting | Existing | building | 3,419 | 28% | 0.3 | 8 | \$4,908 | 12% | 0.1 |
| FE-Met Ed | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Misc. | Other Int. Lighting | New | building | 3,419 | 4.1% | 0.04 | 8 | \$4,908 | 0% | 0.0 |
| FE-Met Ed | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Misc. | Other Int. Lighting | Early | exit sign | 136 | 100% | 0.02 | 15 | \$173 | 26% | 0.5 |
| FE-Met Ed | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Misc. | Other Int. Lighting | New | exit sign | 78 | 100% | 0.01 | 15 | \$148 | 31% | 0.4 |
| FE-Met Ed | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Misc. | Other Int. Lighting | ROB | exit sign | 78 | 100% | 0.01 | 15 | \$148 | 26% | 0.4 |
| FE-Met Ed | Time Clock Control | Lighting w/ No Controls | Misc. | Other Int. Lighting | Existing | building | 3,419 | 28% | 0.3 | 8 | \$997 | 13% | 0.5 |
| FE-Met Ed | Time Clock Control | Lighting w/ No Controls | Misc. | Other Int. Lighting | New | building | 3,419 | 4.1% | 0.04 | 8 | \$997 | 0% | 0.1 |
| FE-Met Ed | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Misc. | Plug Load | Existing | building | 1,322 | 46% | 0.5 | 5 | \$189 | 4% | 1.7 |
| FE-Met Ed | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Misc. | Plug Load | New | building | 1,322 | 46% | 0.5 | 5 | \$189 | 4% | 1.7 |
| FE-Met Ed | Data Center - Server/Storage Consolidation | No Consolidation | Misc. | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Met Ed | Data Center - Server/Storage Consolidation | No Consolidation | Misc. | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Met Ed | Data Center - Server/Storage Virtualization | No Virtualization | Misc. | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Met Ed | Data Center - Server/Storage Virtualization | No Virtualization | Misc. | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Met Ed | Energy Star - Scanners | Std Scanner | Misc. | Plug Load | New | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| FE-Met Ed | Energy Star - Scanners | Std Scanner | Misc. | Plug Load | ROB | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| FE-Met Ed | Energy Star Dishwasher | Existing Dishwasher units | Misc. | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,580 | 6% | 1.1 |
| FE-Met Ed | Energy Star Dishwasher | Standard Dishwasher unit | Misc. | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 6% | 3.5 |
| FE-Met Ed | Energy Star Dishwasher | Standard Dishwasher unit | Misc. | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 6% | 3.5 |
| FE-Met Ed | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Misc. | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 17% | 0.2 |
| FE-Met Ed | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Misc. | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.1 |
| FE-Met Ed | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Misc. | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.1 |
| FE-Met Ed | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Misc. | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 64% | 0.8 |
| FE-Met Ed | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Misc. | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 64% | 1.7 |
| FE-Met Ed | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Misc. | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 64% | 1.7 |
| FE-Met Ed | ENERGY STAR® Copiers | 10% Less Efficient Copier | Misc. | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 18% | 0.0 |
| FE-Met Ed | ENERGY STAR® Copiers | One Conventional Copier | Misc. | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| FE-Met Ed | ENERGY STAR® Copiers | One Conventional Copier | Misc. | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| FE-Met Ed | ENERGY STAR® desktop | Standard computer | Misc. | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 69% | 0.1 |
| FE-Met Ed | ENERGY STAR® desktop | Standard computer | Misc. | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.4 |
| FE-Met Ed | ENERGY STAR® desktop | Standard computer | Misc. | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.4 |
| FE-Met Ed | ENERGY STAR® Fax | 10% Less Efficient Fax | Misc. | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 15% | 0.0 |
| FE-Met Ed | ENERGY STAR® Fax | One Conventional Fax | Misc. | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| FE-Met Ed | ENERGY STAR® Fax | One Conventional Fax | Misc. | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| FE-Met Ed | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Misc. | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 70% | 0.0 |
| FE-Met Ed | ENERGY STAR® Monitors | One Conventional Monitor | Misc. | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| FE-Met Ed | ENERGY STAR® Monitors | One Conventional Monitor | Misc. | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| FE-Met Ed | ENERGY STAR® Printers | 10% Less Efficient Printer | Misc. | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 44% | 0.0 |
| FE-Met Ed | ENERGY STAR® Printers | One Conventional Printer | Misc. | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.4 |
| FE-Met Ed | ENERGY STAR® Printers | One Conventional Printer | Misc. | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.4 |
| FE-Met Ed | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Misc. | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 43% | 0.1 |
| FE-Met Ed | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Misc. | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.8 |
| FE-Met Ed | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Misc. | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.8 |
| FE-Met Ed | ENERGY STAR® Televisions | 10% Less Efficient Television | Misc. | Plug Load | Early | Unit | 221 | 38% | 0.02 | 6 | \$672 | 40% | 0.0 |
| FE-Met Ed | ENERGY STAR® Televisions | One Conventional Television | Misc. | Plug Load | New | Unit | 201 | 32% | 0.01 | 6 | \$206 | 40% | 0.1 |
| FE-Met Ed | ENERGY STAR® Televisions | One Conventional Television | Misc. | Plug Load | ROB | Unit | 201 | 32% | 0.01 | 6 | \$206 | 40% | 0.1 |
| FE-Met Ed | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Misc. | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 24% | 0.3 |
| FE-Met Ed | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Misc. | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.7 |
| FE-Met Ed | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Misc. | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.7 |
| FE-Met Ed | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Misc. | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.3 |
| FE-Met Ed | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Misc. | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.3 |
| FE-Met Ed | Network PC Power Management | No PC Power Management | Misc. | Plug Load | Existing | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 8.2 |
| FE-Met Ed | Network PC Power Management | No PC Power Management | Misc. | Plug Load | New | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 8.2 |
| FE-Met Ed | Smart Strip Plug Outlets | Standard plug strip/outlet | Misc. | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.5 |
| FE-Met Ed | Smart Strip Plug Outlets | Standard plug strip/outlet | Misc. | Plug Load | Early | Smart Strip | 378 | 26% | 0.01 | 5 | \$21 | 85% | 1.2 |
| FE-Met Ed | Smart Strip Plug Outlets | Standard plug strip/outlet | Misc. | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Met Ed | Smart Strip Plug Outlets | Standard plug strip/outlet | Misc. | Plug Load | New | Smart Strip | 296 | 42% | 0.01 | 5 | \$21 | 85% | 1.4 |
| FE-Met Ed | Smart Strip Plug Outlets | Standard plug strip/outlet | Misc. | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|--|---------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Smart Strip Plug Outlets | Standard plug strip/outlet | Misc. | Plug Load | ROB | Smart Strip | 296 | 42% | 0.01 | 5 | \$21 | 85% | 1.4 |
| FE-Met Ed | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Misc. | Plug Load | Existing | building | 1,322 | 46% | 0.5 | 5 | \$180 | 3% | 1.8 |
| FE-Met Ed | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Misc. | Plug Load | New | building | 1,322 | 46% | 0.5 | 5 | \$180 | 3% | 1.8 |
| FE-Met Ed | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Misc. | Refrigeration | Existing | building | 925 | 3.6% | 0.04 | 12 | \$70 | 11% | 0.6 |
| FE-Met Ed | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Misc. | Refrigeration | New | building | 925 | 3.6% | 0.04 | 12 | \$70 | 11% | 0.6 |
| FE-Met Ed | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Misc. | Refrigeration | Existing | building | 925 | 1.4% | 0.01 | 12 | \$70 | 11% | 0.2 |
| FE-Met Ed | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Misc. | Refrigeration | New | building | 925 | 1.4% | 0.01 | 12 | \$70 | 11% | 0.2 |
| FE-Met Ed | Auto Closer on Refrigerator Door | Door w/out Autocloser | Misc. | Refrigeration | Existing | building | 3,493 | 23% | 0.2 | 8 | \$642 | 40% | 0.6 |
| FE-Met Ed | Auto Closer on Refrigerator Door | Door w/out Autocloser | Misc. | Refrigeration | Existing | building | 5,856 | 14% | 0.1 | 8 | \$700 | 40% | 0.5 |
| FE-Met Ed | Auto Closer on Refrigerator Door | Door w/out Autocloser | Misc. | Refrigeration | New | building | 3,493 | 23% | 0.2 | 8 | \$642 | 40% | 0.6 |
| FE-Met Ed | Auto Closer on Refrigerator Door | Door w/out Autocloser | Misc. | Refrigeration | New | building | 5,856 | 14% | 0.1 | 8 | \$700 | 40% | 0.5 |
| FE-Met Ed | Demand Hot Gas Defrost | Base Refrigeration System | Misc. | Refrigeration | Existing | measure | 925 | 3.0% | 0.03 | 10 | \$1,406 | 0% | 0.0 |
| FE-Met Ed | Demand Hot Gas Defrost | Base Refrigeration System | Misc. | Refrigeration | New | measure | 925 | 3.0% | 0.03 | 10 | \$1,406 | 0% | 0.0 |
| FE-Met Ed | Door Gasket- Freezer | Door w/out Gasket | Misc. | Refrigeration | Existing | building | 3,493 | 14% | 0.1 | 4 | \$66 | 29% | 1.9 |
| FE-Met Ed | Door Gasket- Freezer | Door w/out Gasket | Misc. | Refrigeration | New | building | 3,493 | 7.0% | 0.07 | 4 | \$66 | 29% | 1.0 |
| FE-Met Ed | Door Gasket- Refrigerator | Door w/out Gasket | Misc. | Refrigeration | Existing | building | 5,856 | 4.4% | 0.04 | 4 | \$97 | 45% | 0.6 |
| FE-Met Ed | Door Gasket- Refrigerator | Door w/out Gasket | Misc. | Refrigeration | New | building | 5,856 | 4.4% | 0.04 | 4 | \$97 | 45% | 0.6 |
| FE-Met Ed | eCube | Refrigeration unit w/out eCube | Misc. | Refrigeration | Existing | building | 5,856 | 15% | 0.2 | 15 | \$601 | 57% | 1.0 |
| FE-Met Ed | eCube | Refrigeration unit w/out eCube | Misc. | Refrigeration | New | building | 5,856 | 15% | 0.2 | 15 | \$601 | 57% | 1.0 |
| FE-Met Ed | Efficient compressor motor | Base Refrigeration System - Grocery | Misc. | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| FE-Met Ed | Efficient compressor motor | Base Refrigeration System - Grocery | Misc. | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| FE-Met Ed | Efficient compressor motor | Base Refrigeration System - Grocery | Misc. | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| FE-Met Ed | Efficient compressor motor | Base Refrigeration System - Grocery | Misc. | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| FE-Met Ed | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Misc. | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.6 |
| FE-Met Ed | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Misc. | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| FE-Met Ed | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Misc. | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| FE-Met Ed | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Misc. | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.3 |
| FE-Met Ed | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Misc. | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.8 |
| FE-Met Ed | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Misc. | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.8 |
| FE-Met Ed | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Misc. | Refrigeration | Existing | building | 5,856 | 1.7% | 0.02 | 10 | \$369 | 77% | 0.1 |
| FE-Met Ed | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Misc. | Refrigeration | New | building | 5,856 | 1.7% | 0.02 | 10 | \$369 | 77% | 0.1 |
| FE-Met Ed | Floating head pressure controller | System w/out FHPC | Misc. | Refrigeration | Existing | building | 3,493 | 6.5% | 0.03 | 15 | \$8,682 | 41% | 0.0 |
| FE-Met Ed | Floating head pressure controller | System w/out FHPC | Misc. | Refrigeration | Existing | building | 925 | 11% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-Met Ed | Floating head pressure controller | System w/out FHPC | Misc. | Refrigeration | Existing | building | 5,856 | 1.3% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-Met Ed | Floating head pressure controller | System w/out FHPC | Misc. | Refrigeration | New | building | 3,493 | 6.5% | 0.03 | 15 | \$8,682 | 41% | 0.0 |
| FE-Met Ed | Floating head pressure controller | System w/out FHPC | Misc. | Refrigeration | New | building | 925 | 11% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-Met Ed | Floating head pressure controller | System w/out FHPC | Misc. | Refrigeration | New | building | 5,856 | 1.3% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-Met Ed | High Efficiency Commercial Freezer | Std. Commercial Freezer | Misc. | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 86% | 0.3 |
| FE-Met Ed | High Efficiency Commercial Freezer | Std. Commercial Freezer | Misc. | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 4.1 |
| FE-Met Ed | High Efficiency Commercial Freezer | Std. Commercial Freezer | Misc. | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 4.1 |
| FE-Met Ed | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Misc. | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 2% | 0.1 |
| FE-Met Ed | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Misc. | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.9 |
| FE-Met Ed | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Misc. | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.9 |
| FE-Met Ed | High Efficiency Ice Maker | Existing Standard Efficiency Ice Maker in Pennsylvania | Misc. | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 73% | 0.2 |
| FE-Met Ed | High Efficiency Ice Maker | Standard code minimum Ice Maker | Misc. | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| FE-Met Ed | High Efficiency Ice Maker | Standard code minimum Ice Maker | Misc. | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| FE-Met Ed | High Efficiency Ice Making Head | Standard Ice Making Head | Misc. | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 4.0 |
| FE-Met Ed | High Efficiency Ice Making Head | Standard Ice Making Head | Misc. | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 4.0 |
| FE-Met Ed | High R-Value Glass Doors | Base Refrigeration System - Grocery | Misc. | Refrigeration | Existing | building | 925 | 0.7% | 0.01 | 10 | \$16 | 0% | 0.5 |
| FE-Met Ed | High R-Value Glass Doors | Base Refrigeration System - Grocery | Misc. | Refrigeration | New | building | 925 | 0.7% | 0.01 | 10 | \$16 | 0% | 0.5 |
| FE-Met Ed | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Misc. | Refrigeration | Early | Fixture | 373 | 56% | 0.02 | 8 | \$448 | 47% | 0.2 |
| FE-Met Ed | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Misc. | Refrigeration | New | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 47% | 0.3 |
| FE-Met Ed | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Misc. | Refrigeration | ROB | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 47% | 0.3 |
| FE-Met Ed | No-heat glass doors | Standard low-temp reach-in | Misc. | Refrigeration | Existing | building | 925 | 20% | 0.2 | 10 | \$1,455 | 8% | 0.1 |
| FE-Met Ed | No-heat glass doors | Standard low-temp reach-in | Misc. | Refrigeration | New | building | 925 | 20% | 0.2 | 10 | \$1,455 | 8% | 0.1 |
| FE-Met Ed | Quick acting freezer doors | Std. Freezer Doors | Misc. | Refrigeration | Existing | building | 3,493 | 13% | 0.1 | 10 | \$808 | 56% | 0.3 |
| FE-Met Ed | Quick acting freezer doors | Std. Freezer Doors | Misc. | Refrigeration | New | building | 3,493 | 13% | 0.1 | 10 | \$808 | 56% | 0.3 |
| FE-Met Ed | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Misc. | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 30% | 0.4 |
| FE-Met Ed | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Misc. | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.6 |
| FE-Met Ed | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Misc. | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.6 |
| FE-Met Ed | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 30% | 1.7 |
| FE-Met Ed | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 3.0 |
| FE-Met Ed | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 3.0 |
| FE-Met Ed | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 30% | 1.7 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|---|---------|-----------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 4.0 |
| FE-Met Ed | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 4.0 |
| FE-Met Ed | Refrigeration Commissioning | Non-commissioned refrigeration system | Misc. | Refrigeration | Existing | building | 10,273 | 9.5% | 0.10 | 3 | \$3,556 | 85% | 0.0 |
| FE-Met Ed | Refrigeration Commissioning | Non-commissioned refrigeration system | Misc. | Refrigeration | New | building | 10,273 | 9.5% | 0.10 | 3 | \$3,556 | 85% | 0.0 |
| FE-Met Ed | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Misc. | Refrigeration | Existing | building | 3,493 | 30% | 0.3 | 4 | \$80 | 22% | 3.5 |
| FE-Met Ed | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Misc. | Refrigeration | Existing | building | 5,856 | 6.2% | 0.06 | 4 | \$117 | 22% | 0.7 |
| FE-Met Ed | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Misc. | Refrigeration | New | building | 3,493 | 30% | 0.3 | 4 | \$80 | 22% | 3.5 |
| FE-Met Ed | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Misc. | Refrigeration | New | building | 5,856 | 6.2% | 0.06 | 4 | \$117 | 22% | 0.7 |
| FE-Met Ed | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Misc. | Refrigeration | Existing | building | 3,493 | 5.8% | 0.06 | 11 | \$119 | 79% | 1.1 |
| FE-Met Ed | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Misc. | Refrigeration | New | building | 3,493 | 5.8% | 0.06 | 11 | \$119 | 79% | 1.1 |
| FE-Met Ed | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Misc. | Refrigeration | Existing | building | 5,856 | 4.5% | 0.05 | 11 | \$119 | 79% | 1.2 |
| FE-Met Ed | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Misc. | Refrigeration | New | building | 5,856 | 4.5% | 0.05 | 11 | \$119 | 79% | 1.2 |
| FE-Met Ed | Vertical Night Covers | Display cases w/out night covers-High Temperature | Misc. | Refrigeration | Existing | building | 925 | 0.6% | 0.01 | 5 | \$50 | 9% | 0.1 |
| FE-Met Ed | Vertical Night Covers | Display cases w/out night covers-High Temperature | Misc. | Refrigeration | New | building | 925 | 0.6% | 0.01 | 5 | \$50 | 9% | 0.1 |
| FE-Met Ed | VSD Controlled Compressor | Compressor w/out VSD | Misc. | Refrigeration | Early | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.2 |
| FE-Met Ed | VSD Controlled Compressor | Compressor w/out VSD | Misc. | Refrigeration | New | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.2 |
| FE-Met Ed | VSD Controlled Compressor | Compressor w/out VSD | Misc. | Refrigeration | ROB | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.2 |
| FE-Met Ed | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Misc. | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$269 | 35% | 0.9 |
| FE-Met Ed | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Misc. | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$269 | 35% | 0.9 |
| FE-Met Ed | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Misc. | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.2 |
| FE-Met Ed | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Misc. | Refrigeration | New | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 3.0 |
| FE-Met Ed | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Misc. | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.2 |
| FE-Met Ed | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Misc. | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 3.0 |
| FE-Met Ed | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 35% | 2.4 |
| FE-Met Ed | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 35% | 2.3 |
| FE-Met Ed | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 5.2 |
| FE-Met Ed | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.9 |
| FE-Met Ed | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 5.2 |
| FE-Met Ed | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.9 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Misc. | Space Heating | Existing | building | 2,523 | 7.1% | 0.07 | 6 | \$12,345 | 82% | 0.0 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Misc. | Space Heating | New | building | 2,523 | 7.1% | 0.07 | 6 | \$12,345 | 82% | 0.0 |
| FE-Met Ed | Adding window shade film | No shade film | Misc. | Space Heating | Existing | building | 2,523 | 1.3% | 0.4 | 10 | \$31 | 13% | 9.0 |
| FE-Met Ed | Adding window shade film | No shade film | Misc. | Space Heating | New | building | 2,523 | 1.3% | 0.4 | 10 | \$31 | 13% | 9.0 |
| FE-Met Ed | Adding window shade screen | No shade screen | Misc. | Space Heating | Existing | building | 2,523 | 1.1% | 0.01 | 10 | \$12 | 13% | 1.5 |
| FE-Met Ed | Adding window shade screen | No shade screen | Misc. | Space Heating | New | building | 2,523 | 1.1% | 0.01 | 10 | \$12 | 13% | 1.5 |
| FE-Met Ed | Automated control system | Manual Controls | Misc. | Space Heating | Existing | building | 2,523 | 17% | 0.2 | 15 | \$2,762 | 51% | 0.1 |
| FE-Met Ed | Automated control system | Manual Controls | Misc. | Space Heating | New | building | 2,523 | 17% | 0.2 | 15 | \$2,762 | 94% | 0.1 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Misc. | Space Heating | Existing | building | 2,523 | 4.9% | 0.05 | 15 | \$17,130 | 71% | 0.0 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Misc. | Space Heating | New | building | 2,523 | 1.7% | 0.02 | 15 | \$16,283 | 94% | 0.0 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Misc. | Space Heating | Existing | building | 2,523 | 1.4% | 0.04 | 15 | \$20 | 20% | 2.8 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Misc. | Space Heating | New | building | 2,523 | 1.4% | 0.04 | 15 | \$20 | 10% | 2.8 |
| FE-Met Ed | Efficient Unit Heating System | Existing Unit Heaters in PA | Misc. | Space Heating | Early | heater | 30,613 | 23% | 0.05 | 15 | \$3,289 | 83% | 1.1 |
| FE-Met Ed | Efficient Unit Heating System | Std. Unit Heater | Misc. | Space Heating | New | heater | 27,169 | 13% | 0.03 | 15 | \$1,991 | 83% | 0.9 |
| FE-Met Ed | Efficient Unit Heating System | Std. Unit Heater | Misc. | Space Heating | ROB | heater | 27,169 | 13% | 0.03 | 15 | \$1,991 | 83% | 0.9 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Misc. | Space Heating | Existing | building | 2,523 | 7.1% | 0.07 | 15 | \$11,189 | 25% | 0.0 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Misc. | Space Heating | New | building | 2,523 | 7.1% | 0.07 | 15 | \$11,189 | 35% | 0.0 |
| FE-Met Ed | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Misc. | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 1.1 |
| FE-Met Ed | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Misc. | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 1.1 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Misc. | Space Heating | Existing | building | 2,523 | 2.2% | 0.02 | 10 | \$7,735 | 81% | 0.0 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Misc. | Space Heating | New | building | 2,523 | 2.2% | 0.02 | 10 | \$7,735 | 81% | 0.0 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Misc. | Space Heating | Existing | building | 2,523 | 3.6% | 0.04 | 11 | \$286 | 49% | 0.2 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Misc. | Space Heating | New | building | 2,523 | 3.1% | 0.03 | 11 | \$146 | 49% | 0.4 |
| FE-Met Ed | Re-Commissioning (Existing Construction) | No Re-Commissioning | Misc. | Space Heating | Existing | building | 2,523 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |
| FE-Met Ed | VFD on Cooling Tower Fan | Motor w/out VFD | Misc. | Space Heating | Early | motor | 18,724 | 70% | 0.10 | 15 | \$2,843 | 88% | 2.5 |
| FE-Met Ed | VFD on Cooling Tower Fan | Motor w/out VFD | Misc. | Space Heating | New | motor | 18,373 | 72% | 0.10 | 15 | \$2,843 | 88% | 2.5 |
| FE-Met Ed | VFD on Cooling Tower Fan | Motor w/out VFD | Misc. | Space Heating | ROB | motor | 18,373 | 72% | 0.10 | 15 | \$2,843 | 88% | 2.5 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Misc. | Space Heating | Existing | building | 2,523 | 14% | 0.1 | 15 | \$5,133 | 26% | 0.1 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Misc. | Space Heating | New | building | 2,523 | 0.4% | 0.00 | 15 | \$3,937 | 94% | 0.0 |
| FE-Met Ed | Green LED Traffic Light | Green Incandescent Traffic Light | Misc. | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 0% | 1.3 |
| FE-Met Ed | Green LED Traffic Light | Green Incandescent Traffic Light | Misc. | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.2 |
| FE-Met Ed | Green LED Traffic Light | Green Incandescent Traffic Light | Misc. | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.2 |
| FE-Met Ed | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Misc. | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 0% | 3.1 |
| FE-Met Ed | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Misc. | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|--|---|---------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Misc. | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-Met Ed | Induction Street Lighting | One 100W HPS Street Light Fixture | Misc. | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 0% | 0.3 |
| FE-Met Ed | Induction Street Lighting | One 100W HPS Street Light Fixture | Misc. | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.8 |
| FE-Met Ed | Induction Street Lighting | One 100W HPS Street Light Fixture | Misc. | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.8 |
| FE-Met Ed | LED Street Lighting | One 100W HPS Street Light | Misc. | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 0% | 0.2 |
| FE-Met Ed | LED Street Lighting | One 100W HPS Street Light | Misc. | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-Met Ed | LED Street Lighting | One 100W HPS Street Light | Misc. | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-Met Ed | Red LED Traffic Light | One Red Incandescent Traffic Light | Misc. | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 0% | 1.7 |
| FE-Met Ed | Red LED Traffic Light | One Red Incandescent Traffic Light | Misc. | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| FE-Met Ed | Red LED Traffic Light | One Red Incandescent Traffic Light | Misc. | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| FE-Met Ed | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Misc. | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 0% | 0.1 |
| FE-Met Ed | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Misc. | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-Met Ed | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Misc. | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-Met Ed | Demand controlled Circulating Systems | Constant circulation system | Misc. | Water Heating | Existing | building | 1,377 | 20% | 0.2 | 15 | \$250 | 59% | 1.4 |
| FE-Met Ed | Demand controlled Circulating Systems | Constant circulation system | Misc. | Water Heating | New | building | 1,377 | 20% | 0.2 | 15 | \$250 | 59% | 1.4 |
| FE-Met Ed | Drainwater Heat Recovery Water Heater | No heat recovery | Misc. | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 2.0 |
| FE-Met Ed | Drainwater Heat Recovery Water Heater | No heat recovery | Misc. | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 2.0 |
| FE-Met Ed | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Misc. | Water Heating | Existing | building | 1,377 | 5.9% | 0.06 | 12 | \$14 | 85% | 6.1 |
| FE-Met Ed | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Misc. | Water Heating | New | building | 1,377 | 5.9% | 0.06 | 12 | \$4.0 | 85% | 21.3 |
| FE-Met Ed | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Misc. | Water Heating | Early | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 3.1 |
| FE-Met Ed | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Misc. | Water Heating | Early | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 3.1 |
| FE-Met Ed | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Misc. | Water Heating | New | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 3.1 |
| FE-Met Ed | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Misc. | Water Heating | New | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 3.1 |
| FE-Met Ed | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Misc. | Water Heating | ROB | water heater | 10,350 | 65% | 1.2 | 10 | \$1,187 | 68% | 2.9 |
| FE-Met Ed | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Misc. | Water Heating | ROB | water heater | 10,350 | 65% | 1.2 | 10 | \$1,187 | 68% | 2.9 |
| FE-Met Ed | Heat Recovery Unit | Base Water Heating | Misc. | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.7 |
| FE-Met Ed | Heat Recovery Unit | Base Water Heating | Misc. | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.7 |
| FE-Met Ed | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Misc. | Water Heating | Early | water heater | 3,246 | 5.9% | 0.03 | 15 | \$307 | 79% | 0.5 |
| FE-Met Ed | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Misc. | Water Heating | Early | water heater | 3,246 | 5.9% | 0.03 | 15 | \$307 | 79% | 0.5 |
| FE-Met Ed | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Misc. | Water Heating | New | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.8 |
| FE-Met Ed | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Misc. | Water Heating | New | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.8 |
| FE-Met Ed | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Misc. | Water Heating | ROB | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.8 |
| FE-Met Ed | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Misc. | Water Heating | ROB | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.8 |
| FE-Met Ed | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Misc. | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$466 | 81% | 41.0 |
| FE-Met Ed | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Misc. | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 21.4 |
| FE-Met Ed | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Misc. | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 21.4 |
| FE-Met Ed | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Misc. | Water Heating | Existing | building | 1,377 | 2.7% | 0.03 | 13 | \$5.4 | 68% | 7.7 |
| FE-Met Ed | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Misc. | Water Heating | New | building | 1,377 | 2.7% | 0.03 | 13 | \$5.4 | 0% | 7.7 |
| FE-Met Ed | Hot Water Circulation Pump Time-Clock | Constant circulation system | Misc. | Water Heating | Existing | building | 1,377 | 5.3% | 0.05 | 10 | \$5.6 | 72% | 12.0 |
| FE-Met Ed | Hot Water Circulation Pump Time-Clock | Constant circulation system | Misc. | Water Heating | New | building | 1,377 | 5.3% | 0.05 | 10 | \$5.6 | 72% | 12.0 |
| FE-Met Ed | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Misc. | Water Heating | Existing | building | 1,267 | 2.9% | 0.03 | 7 | \$22 | 78% | 1.2 |
| FE-Met Ed | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Misc. | Water Heating | New | building | 1,377 | 0.8% | 0.01 | 7 | \$0.5 | 78% | 15.1 |
| FE-Met Ed | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Misc. | Water Heating | Existing | building | 1,377 | 13% | 0.1 | 5 | \$300 | 0% | 0.3 |
| FE-Met Ed | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Misc. | Water Heating | New | building | 1,377 | 9.3% | 0.09 | 5 | \$194 | 0% | 0.3 |
| FE-Met Ed | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Misc. | Water Heating | Existing | building | 1,377 | 6.5% | 0.07 | 9 | \$25 | 2% | 3.0 |
| FE-Met Ed | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Misc. | Water Heating | New | building | 1,377 | 6.5% | 0.07 | 9 | \$6.0 | 2% | 12.6 |
| FE-Met Ed | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Misc. | Water Heating | Early | water heater | 10,645 | 52% | 0.4 | 15 | \$6,222 | 32% | 0.6 |
| FE-Met Ed | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Misc. | Water Heating | New | water heater | 10,350 | 51% | 0.4 | 15 | \$6,222 | 32% | 0.5 |
| FE-Met Ed | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Misc. | Water Heating | ROB | water heater | 10,350 | 51% | 0.4 | 15 | \$6,222 | 32% | 0.5 |
| FE-Met Ed | Ultrasonic Faucet Control | Manual Faucet Control | Misc. | Water Heating | Existing | building | 1,377 | 3.0% | 0.03 | 10 | \$238 | 77% | 0.2 |
| FE-Met Ed | Ultrasonic Faucet Control | Manual Faucet Control | Misc. | Water Heating | New | building | 1,377 | 3.0% | 0.03 | 10 | \$238 | 77% | 0.2 |
| FE-Met Ed | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Misc. | Water Heating | Existing | building | 1,377 | 2.2% | 0.02 | 4 | \$28 | 83% | 0.5 |
| FE-Met Ed | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Misc. | Water Heating | New | building | 1,377 | 2.3% | 0.02 | 4 | \$28 | 83% | 0.5 |
| FE-Met Ed | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Office | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.2 |
| FE-Met Ed | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Office | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.2 |
| FE-Met Ed | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Office | Cooking | Early | steamer | 51 | 46% | 0.00 | 12 | \$5,053 | 81% | 0.0 |
| FE-Met Ed | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Office | Cooking | New | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-Met Ed | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Office | Cooking | ROB | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-Met Ed | Electric combination oven (Energy Star) | Standard Oven | Office | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 3.1 |
| FE-Met Ed | Electric combination oven (Energy Star) | Standard Oven | Office | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 3.1 |
| FE-Met Ed | Electric Convection Oven | Conventional convection oven w/ 65% efficiency | Office | Cooking | Early | oven | 8,641 | 37% | 0.6 | 12 | \$4,119 | 81% | 0.5 |
| FE-Met Ed | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Office | Cooking | New | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.8 |
| FE-Met Ed | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Office | Cooking | ROB | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.8 |
| FE-Met Ed | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Office | Cooking | Early | fryer | 6,105 | 23% | 0.3 | 12 | \$9,241 | 86% | 0.1 |
| FE-Met Ed | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Office | Cooking | New | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.4 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|--|---|---------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Office | Cooking | ROB | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.4 |
| FE-Met Ed | High Efficiency Griddle (ENERGY STAR) | Efficiency code minimum griddle (70% eff) | Office | Cooking | Early | griddle | 11,317 | 65% | 1.4 | 12 | \$4,977 | 86% | 0.9 |
| FE-Met Ed | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Office | Cooking | New | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.3 |
| FE-Met Ed | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Office | Cooking | ROB | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.3 |
| FE-Met Ed | High Efficiency Induction Cooking | Standard Cooking | Office | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-Met Ed | High Efficiency Induction Cooking | Standard Cooking | Office | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-Met Ed | Active chilled beam cooling | No Active Chilled beam cooling | Office | Cooling Central | New | building | 1,162 | 5.3% | 0.05 | 15 | \$304 | 72% | 0.3 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Office | Cooling Central | Existing | building | 1,223 | 7.0% | 0.07 | 6 | \$11,966 | 82% | 0.0 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Office | Cooling Central | New | building | 1,223 | 7.0% | 0.07 | 6 | \$11,966 | 82% | 0.0 |
| FE-Met Ed | Adding window shade film | No shade film | Office | Cooling Central | Existing | building | 1,223 | 1.3% | 0.4 | 10 | \$15 | 12% | 18.2 |
| FE-Met Ed | Adding window shade film | No shade film | Office | Cooling Central | New | building | 1,223 | 1.3% | 0.4 | 10 | \$15 | 13% | 18.2 |
| FE-Met Ed | Adding window shade screen | No shade screen | Office | Cooling Central | Existing | building | 1,223 | 1.1% | 0.01 | 10 | \$5.8 | 13% | 2.1 |
| FE-Met Ed | Adding window shade screen | No shade screen | Office | Cooling Central | New | building | 1,223 | 1.0% | 0.01 | 10 | \$5.8 | 13% | 2.1 |
| FE-Met Ed | Automated control system | Manual Controls | Office | Cooling Central | Existing | building | 1,223 | 17% | 0.2 | 15 | \$1,339 | 51% | 0.2 |
| FE-Met Ed | Automated control system | Manual Controls | Office | Cooling Central | New | building | 1,223 | 17% | 0.2 | 15 | \$1,339 | 94% | 0.2 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Office | Cooling Central | Existing | building | 1,223 | 4.9% | 0.05 | 15 | \$16,437 | 71% | 0.0 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Office | Cooling Central | New | building | 1,223 | 2.3% | 0.02 | 15 | \$15,624 | 94% | 0.0 |
| FE-Met Ed | Chilled Water Reset, Optimizer System for Chiller(s) | No Chilled Water Reset | Office | Cooling Central | Existing | building | 1,223 | 3.7% | 0.04 | 10 | \$5.6 | 69% | 8.0 |
| FE-Met Ed | Chiller Tune Up Diagnostics | No Chiller Tune Up | Office | Cooling Central | Existing | building | 1,223 | 2.3% | 0.02 | 10 | \$1.2 | 59% | 22.4 |
| FE-Met Ed | Chiller Tuneup/Diagnostics | No tuneup | Office | Cooling Central | Existing | building | 1,223 | 8.0% | 0.08 | 10 | \$3,122 | 59% | 0.0 |
| FE-Met Ed | Chiller Tuneup/Diagnostics | No tuneup | Office | Cooling Central | New | building | 1,223 | 8.0% | 0.08 | 10 | \$3,122 | 59% | 0.0 |
| FE-Met Ed | Cooling Tower Optimization | No Cooling Tower Optimization | Office | Cooling Central | Existing | building | 1,223 | 15% | 0.1 | 10 | \$17 | 73% | 10.6 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Office | Cooling Central | Existing | building | 1,223 | 1.4% | 0.04 | 15 | \$9.7 | 20% | 4.9 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Office | Cooling Central | New | building | 1,223 | 1.4% | 0.04 | 15 | \$9.7 | 10% | 4.9 |
| FE-Met Ed | Facility Commissioning | No Facility Commissioning | Office | Cooling Central | New | building | 1,223 | 16% | 0.2 | 10 | \$45,987 | 89% | 0.0 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Office | Cooling Central | Existing | building | 1,223 | 7.0% | 0.07 | 15 | \$5,423 | 25% | 0.0 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Office | Cooling Central | New | building | 1,223 | 7.0% | 0.07 | 15 | \$5,423 | 35% | 0.0 |
| FE-Met Ed | Hi Eff HVAC System Design | No HVAC Design | Office | Cooling Central | New | building | 1,223 | 0.8% | 0.01 | 10 | \$1,042 | 51% | 0.0 |
| FE-Met Ed | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Office | Cooling Central | Early | ton | 5,094 | 24% | 0.4 | 15 | \$108,550 | 88% | 0.0 |
| FE-Met Ed | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Office | Cooling Central | New | ton | 4,164 | 6.7% | 0.10 | 15 | \$12,927 | 88% | 0.0 |
| FE-Met Ed | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Office | Cooling Central | ROB | ton | 4,164 | 6.7% | 0.10 | 15 | \$12,927 | 88% | 0.0 |
| FE-Met Ed | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Office | Cooling Central | Early | ton | 7,611 | 23% | 0.6 | 15 | \$140,105 | 88% | 0.0 |
| FE-Met Ed | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Office | Cooling Central | New | ton | 6,124 | 4.9% | 0.1 | 15 | \$9,336 | 88% | 0.0 |
| FE-Met Ed | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Office | Cooling Central | ROB | ton | 6,124 | 4.9% | 0.1 | 15 | \$9,336 | 88% | 0.0 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Office | Cooling Central | Early | ton | 62,308 | 26% | 5.6 | 15 | \$105,354 | 88% | 0.1 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Office | Cooling Central | New | ton | 54,288 | 15% | 2.8 | 15 | \$30,530 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Office | Cooling Central | ROB | ton | 54,288 | 15% | 2.8 | 15 | \$30,530 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Office | Cooling Central | Early | ton | 93,320 | 23% | 7.4 | 15 | \$154,107 | 88% | 0.1 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Office | Cooling Central | New | ton | 85,726 | 16% | 4.8 | 15 | \$27,646 | 88% | 0.4 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Office | Cooling Central | ROB | ton | 93,320 | 23% | 7.4 | 15 | \$27,646 | 88% | 0.7 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Office | Cooling Central | Early | ton | 154,988 | 23% | 12.2 | 15 | \$302,924 | 88% | 0.1 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Office | Cooling Central | New | ton | 140,275 | 14% | 7.0 | 15 | \$115,432 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Office | Cooling Central | ROB | ton | 154,988 | 23% | 12.2 | 15 | \$115,432 | 88% | 0.3 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Office | Cooling Central | Early | ton | 185,985 | 23% | 14.6 | 15 | \$350,154 | 88% | 0.1 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Office | Cooling Central | New | ton | 168,330 | 14% | 8.5 | 15 | \$120,406 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Office | Cooling Central | ROB | ton | 185,985 | 23% | 14.6 | 15 | \$120,406 | 88% | 0.3 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Office | Cooling Central | Early | ton | 41,225 | 29% | 4.2 | 15 | \$83,632 | 88% | 0.1 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Office | Cooling Central | New | ton | 32,011 | 8.9% | 1.0 | 15 | \$40,211 | 88% | 0.1 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Office | Cooling Central | ROB | ton | 41,225 | 29% | 4.2 | 15 | \$40,211 | 88% | 0.3 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Office | Cooling Central | Early | ton | 70,835 | 35% | 8.6 | 15 | \$132,173 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Office | Cooling Central | New | ton | 52,831 | 13% | 2.3 | 15 | \$39,556 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Office | Cooling Central | ROB | ton | 52,831 | 13% | 2.3 | 15 | \$39,556 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Office | Cooling Central | Early | ton | 118,265 | 39% | 16.1 | 15 | \$187,029 | 88% | 0.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|--|---|---------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Office | Cooling Central | New | ton | 84,321 | 15% | 4.3 | 15 | \$33,554 | 88% | 0.3 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Office | Cooling Central | ROB | ton | 118,265 | 39% | 16.1 | 15 | \$33,554 | 88% | 1.2 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Office | Cooling Central | Early | ton | 20,695 | 30% | 2.1 | 15 | \$32,398 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Office | Cooling Central | New | ton | 16,396 | 11% | 0.6 | 15 | \$7,188 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Office | Cooling Central | ROB | ton | 20,695 | 30% | 2.1 | 15 | \$7,188 | 88% | 0.8 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Office | Cooling Central | Existing | building | 1,223 | 2.8% | 0.03 | 10 | \$5,350 | 81% | 0.0 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Office | Cooling Central | New | building | 1,223 | 2.8% | 0.03 | 10 | \$5,350 | 81% | 0.0 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Office | Cooling Central | Existing | building | 1,223 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.1 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Office | Cooling Central | New | building | 1,223 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.2 |
| FE-Met Ed | Re-Commissioning (Existing Construction) | No Re-Commissioning | Office | Cooling Central | Existing | building | 1,223 | 16% | 0.2 | 5 | \$7,777 | 86% | 0.0 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Office | Cooling Central | Existing | building | 1,223 | 15% | 0.2 | 15 | \$5,028 | 26% | 0.0 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Office | Cooling Central | New | building | 1,223 | 0.5% | 0.01 | 15 | \$3,857 | 94% | 0.0 |
| FE-Met Ed | <65k BTU/hr 14 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Office | Cooling Unitary | Early | ton | 1,728 | 16% | 0.2 | 15 | \$1,545 | 29% | 0.2 |
| FE-Met Ed | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Office | Cooling Unitary | New | ton | 1,565 | 7.1% | 0.08 | 15 | \$339 | 29% | 0.4 |
| FE-Met Ed | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Office | Cooling Unitary | ROB | ton | 1,565 | 7.1% | 0.08 | 15 | \$339 | 29% | 0.4 |
| FE-Met Ed | <65k BTU/hr 15 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Office | Cooling Unitary | Early | ton | 1,728 | 22% | 0.3 | 15 | \$1,821 | 30% | 0.3 |
| FE-Met Ed | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Office | Cooling Unitary | New | ton | 1,565 | 13% | 0.1 | 15 | \$714 | 30% | 0.4 |
| FE-Met Ed | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Office | Cooling Unitary | ROB | ton | 1,565 | 13% | 0.1 | 15 | \$714 | 30% | 0.4 |
| FE-Met Ed | <65k BTU/hr 16 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Office | Cooling Unitary | Early | ton | 1,728 | 26% | 0.3 | 15 | \$2,098 | 31% | 0.3 |
| FE-Met Ed | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Office | Cooling Unitary | New | ton | 1,565 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.3 |
| FE-Met Ed | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Office | Cooling Unitary | ROB | ton | 1,565 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.3 |
| FE-Met Ed | >760k min 10.2 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Office | Cooling Unitary | Early | ton | 43,708 | 3.7% | 1.2 | 15 | \$68,066 | 56% | 0.0 |
| FE-Met Ed | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Office | Cooling Unitary | New | ton | 44,268 | 4.9% | 1.6 | 15 | \$6,231 | 56% | 0.4 |
| FE-Met Ed | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Office | Cooling Unitary | ROB | ton | 44,268 | 4.9% | 1.6 | 15 | \$6,231 | 56% | 0.4 |
| FE-Met Ed | 135-240k min 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Office | Cooling Unitary | Early | ton | 10,754 | 18% | 1.4 | 15 | \$18,135 | 79% | 0.1 |
| FE-Met Ed | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Office | Cooling Unitary | New | ton | 9,783 | 10.0% | 0.7 | 15 | \$1,948 | 79% | 0.6 |
| FE-Met Ed | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Office | Cooling Unitary | ROB | ton | 9,783 | 10.0% | 0.7 | 15 | \$1,948 | 79% | 0.6 |
| FE-Met Ed | 240k-760k min 11 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Office | Cooling Unitary | Early | ton | 28,755 | 9.0% | 1.9 | 15 | \$44,809 | 66% | 0.1 |
| FE-Met Ed | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Office | Cooling Unitary | New | ton | 28,827 | 9.3% | 1.9 | 15 | \$4,796 | 66% | 0.7 |
| FE-Met Ed | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Office | Cooling Unitary | ROB | ton | 28,827 | 9.3% | 1.9 | 15 | \$4,796 | 66% | 0.7 |
| FE-Met Ed | 65k-135k BTU/hr 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Office | Cooling Unitary | Early | ton | 6,340 | 17% | 0.8 | 15 | \$10,946 | 86% | 0.1 |
| FE-Met Ed | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Office | Cooling Unitary | New | ton | 5,650 | 6.7% | 0.3 | 15 | \$1,392 | 86% | 0.3 |
| FE-Met Ed | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Office | Cooling Unitary | ROB | ton | 5,650 | 6.7% | 0.3 | 15 | \$1,392 | 86% | 0.3 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Office | Cooling Unitary | Existing | building | 20,418 | 7.0% | 0.07 | 6 | \$11,966 | 82% | 0.0 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Office | Cooling Unitary | New | building | 20,418 | 7.0% | 0.07 | 6 | \$11,966 | 82% | 0.0 |
| FE-Met Ed | Adding window shade film | No shade film | Office | Cooling Unitary | Existing | building | 20,418 | 1.3% | 0.4 | 10 | \$248 | 12% | 1.5 |
| FE-Met Ed | Adding window shade film | No shade film | Office | Cooling Unitary | New | building | 20,418 | 1.3% | 0.4 | 10 | \$248 | 13% | 1.5 |
| FE-Met Ed | Adding window shade screen | No shade screen | Office | Cooling Unitary | Existing | building | 20,418 | 1.1% | 0.01 | 10 | \$96 | 12% | 1.0 |
| FE-Met Ed | Adding window shade screen | No shade screen | Office | Cooling Unitary | New | building | 20,418 | 1.1% | 0.01 | 10 | \$96 | 13% | 1.0 |
| FE-Met Ed | Automated control system | Manual Controls | Office | Cooling Unitary | Existing | building | 20,418 | 17% | 0.2 | 15 | \$22,353 | 51% | 0.1 |
| FE-Met Ed | Automated control system | Manual Controls | Office | Cooling Unitary | New | building | 20,418 | 17% | 0.2 | 15 | \$22,353 | 94% | 0.1 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Office | Cooling Unitary | Existing | building | 20,418 | 4.9% | 0.05 | 15 | \$16,437 | 71% | 0.0 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Office | Cooling Unitary | New | building | 20,418 | 2.3% | 0.02 | 15 | \$15,624 | 94% | 0.0 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Office | Cooling Unitary | Existing | building | 20,418 | 1.4% | 0.04 | 15 | \$162 | 20% | 1.2 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Office | Cooling Unitary | New | building | 20,418 | 1.4% | 0.04 | 15 | \$162 | 10% | 1.2 |
| FE-Met Ed | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Office | Cooling Unitary | Existing | building | 11,230 | 13% | 0.1 | 1 | \$108 | 73% | 0.8 |
| FE-Met Ed | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Office | Cooling Unitary | New | building | 11,230 | 13% | 0.1 | 1 | \$108 | 73% | 0.8 |
| FE-Met Ed | ECM Motors for split systems | Std Shaded Pole Motor | Office | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 3.0 |
| FE-Met Ed | ECM Motors for split systems | Std Shaded Pole Motor | Office | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 3.0 |
| FE-Met Ed | Facility Commissioning | No Facility Commissioning | Office | Cooling Unitary | New | building | 20,418 | 16% | 0.2 | 10 | \$606 | 89% | 2.3 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Office | Cooling Unitary | Existing | building | 20,418 | 7.1% | 0.07 | 15 | \$90,572 | 25% | 0.0 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Office | Cooling Unitary | New | building | 20,418 | 7.0% | 0.07 | 15 | \$90,572 | 35% | 0.0 |
| FE-Met Ed | Hi Eff HVAC System Design | No HVAC Design | Office | Cooling Unitary | New | building | 20,418 | 0.8% | 0.01 | 10 | \$105 | 51% | 0.6 |
| FE-Met Ed | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Office | Cooling Unitary | Existing | building | 20,418 | 5.0% | 0.05 | 5 | \$225 | 59% | 1.1 |
| FE-Met Ed | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Office | Cooling Unitary | Existing | building | 20,418 | 0.5% | 0.04 | 5 | \$225 | 51% | 0.2 |
| FE-Met Ed | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Office | Cooling Unitary | New | building | 20,418 | 0.5% | 0.04 | 5 | \$135 | 51% | 0.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|--|--|---------|-----------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Office | Cooling Unitary | Existing | building | 20,418 | 2.8% | 0.03 | 10 | \$5,750 | 86% | 0.0 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Office | Cooling Unitary | New | building | 20,418 | 2.8% | 0.03 | 10 | \$5,750 | 86% | 0.0 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) HVAC system w/ Manual Thermostat (Code Min Eff) | Office | Cooling Unitary | Existing | building | 20,418 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.7 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | | Office | Cooling Unitary | New | building | 20,418 | 1.7% | 0.02 | 11 | \$146 | 49% | 1.1 |
| FE-Met Ed | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Office | Cooling Unitary | Early | unit | 569 | 19% | 0.08 | 15 | \$849 | 85% | 0.2 |
| FE-Met Ed | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Office | Cooling Unitary | New | unit | 575 | 20% | 0.09 | 15 | \$356 | 85% | 0.4 |
| FE-Met Ed | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Office | Cooling Unitary | ROB | unit | 575 | 20% | 0.09 | 15 | \$356 | 85% | 0.4 |
| FE-Met Ed | Re-Commissioning (Existing Construction) | No Re-Commissioning | Office | Cooling Unitary | Existing | building | 20,418 | 16% | 0.2 | 5 | \$7,777 | 86% | 0.1 |
| FE-Met Ed | Room AC (w/ louvered sides) | Existing efficiency Room AC in Pennsylvania (2000 Federal Standards) | Office | Cooling Unitary | Early | ton | 660 | 13% | 0.03 | 9 | \$348 | 82% | 0.2 |
| FE-Met Ed | Room AC (w/ louvered sides) | Std Room AC (Code Min. Federal Standards) | Office | Cooling Unitary | New | ton | 599 | 4.5% | 0.01 | 9 | \$17 | 82% | 0.9 |
| FE-Met Ed | Room AC (w/ louvered sides) | Std Room AC (Code Min. Federal Standards) | Office | Cooling Unitary | ROB | ton | 599 | 4.5% | 0.01 | 9 | \$17 | 82% | 0.9 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Office | Cooling Unitary | Existing | building | 20,418 | 15% | 0.2 | 15 | \$5,028 | 26% | 0.4 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Office | Cooling Unitary | New | building | 20,418 | 0.5% | 0.01 | 15 | \$3,857 | 94% | 0.0 |
| FE-Met Ed | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Office | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 1.2 |
| FE-Met Ed | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Office | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.6 |
| FE-Met Ed | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Office | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.6 |
| FE-Met Ed | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Office | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 0% | 0.2 |
| FE-Met Ed | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Office | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-Met Ed | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Office | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-Met Ed | LED exterior lighting | 250 Watt Incandescent | Office | Ext. Lighting | ROB | measure | 262 | 83% | 0.05 | 15 | \$104 | 89% | 1.6 |
| FE-Met Ed | LED exterior lighting | 250 Watt Incandescent | Office | Ext. Lighting | ROB | measure | 277 | 83% | 0.05 | 15 | \$104 | 89% | 1.7 |
| FE-Met Ed | LED exterior lighting | 250 Watt Incandescent | Office | Ext. Lighting | ROB | measure | 277 | 83% | 0.05 | 15 | \$104 | 89% | 1.7 |
| FE-Met Ed | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Office | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 53% | 0.3 |
| FE-Met Ed | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Office | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 53% | 0.2 |
| FE-Met Ed | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Office | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 53% | 2.9 |
| FE-Met Ed | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Office | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 53% | 2.2 |
| FE-Met Ed | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Office | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 53% | 2.9 |
| FE-Met Ed | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Office | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 53% | 2.2 |
| FE-Met Ed | Photocell Controls (Outdoor) | Lighting w/ No Controls | Office | Ext. Lighting | Existing | building | 113 | 28% | 0.3 | 8 | \$3,091 | 88% | 0.1 |
| FE-Met Ed | Photocell Controls (Outdoor) | Lighting w/ No Controls | Office | Ext. Lighting | New | building | 113 | 28% | 0.3 | 8 | \$3,091 | 0% | 0.1 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Office | Heat Pump | Existing | building | 2,296 | 6.9% | 0.07 | 6 | \$11,966 | 82% | 0.0 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Office | Heat Pump | New | building | 2,296 | 6.9% | 0.07 | 6 | \$11,966 | 82% | 0.0 |
| FE-Met Ed | Adding window shade film | No shade film | Office | Heat Pump | Existing | building | 2,296 | 3.9% | 0.4 | 10 | \$28 | 12% | 10.7 |
| FE-Met Ed | Adding window shade film | No shade film | Office | Heat Pump | New | building | 2,296 | 3.9% | 0.4 | 10 | \$28 | 12% | 10.7 |
| FE-Met Ed | Adding window shade screen | No shade screen | Office | Heat Pump | Existing | building | 2,296 | 0.3% | 0.01 | 10 | \$3.6 | 12% | 2.8 |
| FE-Met Ed | Adding window shade screen | No shade screen | Office | Heat Pump | New | building | 2,296 | 0.3% | 0.01 | 10 | \$3.6 | 12% | 2.8 |
| FE-Met Ed | Automated control system | Manual Controls | Office | Heat Pump | Existing | building | 2,296 | 17% | 0.2 | 15 | \$2,513 | 51% | 0.1 |
| FE-Met Ed | Automated control system | Manual Controls | Office | Heat Pump | New | building | 2,296 | 17% | 0.2 | 15 | \$2,513 | 94% | 0.1 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Office | Heat Pump | Existing | building | 2,296 | 4.9% | 0.05 | 15 | \$16,437 | 71% | 0.0 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Office | Heat Pump | New | building | 2,296 | 2.3% | 0.02 | 15 | \$15,624 | 94% | 0.0 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Office | Heat Pump | Existing | building | 2,296 | 4.0% | 0.04 | 15 | \$18 | 12% | 4.8 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Office | Heat Pump | New | building | 2,296 | 4.0% | 0.04 | 15 | \$18 | 6% | 4.8 |
| FE-Met Ed | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Office | Heat Pump | Early | heat pump | 1,025 | 13% | 0.01 | 15 | \$4,070 | 83% | 0.0 |
| FE-Met Ed | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Office | Heat Pump | New | heat pump | 968 | 7.7% | 0.01 | 15 | \$1,097 | 83% | 0.0 |
| FE-Met Ed | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Office | Heat Pump | ROB | heat pump | 968 | 7.7% | 0.01 | 15 | \$1,097 | 83% | 0.0 |
| FE-Met Ed | Facility Commissioning | No Facility Commissioning | Office | Heat Pump | New | building | 2,296 | 16% | 0.2 | 10 | \$45,987 | 89% | 0.0 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Office | Heat Pump | Existing | building | 2,296 | 7.0% | 0.07 | 15 | \$10,184 | 25% | 0.0 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Office | Heat Pump | New | building | 2,296 | 7.0% | 0.07 | 15 | \$10,184 | 35% | 0.0 |
| FE-Met Ed | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Office | Heat Pump | Early | heat pump | 10,751 | 18% | 0.2 | 15 | \$91,117 | 19% | 0.0 |
| FE-Met Ed | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Office | Heat Pump | New | heat pump | 10,274 | 15% | 0.1 | 15 | \$33,927 | 19% | 0.0 |
| FE-Met Ed | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Office | Heat Pump | ROB | heat pump | 10,274 | 15% | 0.1 | 15 | \$33,927 | 19% | 0.0 |
| FE-Met Ed | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Office | Heat Pump | Early | heat pump | 10,751 | 18% | 0.2 | 15 | \$58,356 | 19% | 0.0 |
| FE-Met Ed | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Office | Heat Pump | New | heat pump | 10,274 | 15% | 0.1 | 15 | \$1,167 | 19% | 0.8 |
| FE-Met Ed | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Office | Heat Pump | ROB | heat pump | 10,274 | 15% | 0.1 | 15 | \$1,167 | 19% | 0.8 |
| FE-Met Ed | Hi Eff HVAC System Design | No HVAC Design | Office | Heat Pump | New | building | 2,296 | 0.7% | 0.01 | 10 | \$1,042 | 51% | 0.0 |
| FE-Met Ed | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Office | Heat Pump | Early | heat pump | 2,734 | 18% | 0.04 | 12 | \$4,298 | 81% | 0.1 |
| FE-Met Ed | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Office | Heat Pump | New | heat pump | 2,580 | 13% | 0.03 | 12 | \$852 | 81% | 0.2 |
| FE-Met Ed | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Office | Heat Pump | ROB | heat pump | 2,580 | 13% | 0.03 | 12 | \$852 | 81% | 0.2 |
| FE-Met Ed | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Office | Heat Pump | Existing | building | 2,296 | 5.0% | 0.01 | 5 | \$90 | 51% | 0.3 |
| FE-Met Ed | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Office | Heat Pump | New | building | 2,296 | 5.0% | 0.01 | 5 | \$90 | 51% | 0.3 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Office | Heat Pump | Existing | building | 2,296 | 2.8% | 0.03 | 10 | \$5,119 | 81% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|--|--|---------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Office | Heat Pump | New | building | 2,296 | 2.8% | 0.03 | 10 | \$5,119 | 81% | 0.0 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Office | Heat Pump | Existing | building | 2,296 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.1 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Office | Heat Pump | New | building | 2,296 | 2.1% | 0.02 | 11 | \$146 | 49% | 0.2 |
| FE-Met Ed | Re-Commissioning (Existing Construction) | No Re-Commissioning | Office | Heat Pump | Existing | building | 2,296 | 16% | 0.2 | 5 | \$7,777 | 86% | 0.0 |
| FE-Met Ed | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Office | Heat Pump | New | measure | 1,496,631 | 2.0% | 3.4 | 13 | \$188,409 | 43% | 0.1 |
| FE-Met Ed | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Office | Heat Pump | ROB | measure | 1,496,631 | 2.0% | 3.4 | 13 | \$188,409 | 43% | 0.1 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Office | Heat Pump | Existing | building | 2,296 | 15% | 0.2 | 15 | \$5,028 | 26% | 0.1 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Office | Heat Pump | New | building | 2,296 | 0.5% | 0.01 | 15 | \$3,857 | 94% | 0.0 |
| FE-Met Ed | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Office | Heat Pump | Early | heat pump | 4,292 | 32% | 0.1 | 15 | \$35,347 | 28% | 0.0 |
| FE-Met Ed | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Office | Heat Pump | New | heat pump | 4,021 | 27% | 0.09 | 15 | \$15,739 | 28% | 0.0 |
| FE-Met Ed | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Office | Heat Pump | ROB | heat pump | 4,021 | 27% | 0.09 | 15 | \$15,739 | 28% | 0.0 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Office | High Bay Lighting | Early | Fixture | 483 | 9.6% | 0.01 | 13 | \$850 | 39% | 0.0 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Office | High Bay Lighting | Early | Fixture | 483 | 9.5% | 0.01 | 13 | \$850 | 28% | 0.0 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Office | High Bay Lighting | Early | Fixture | 745 | 41% | 0.08 | 13 | \$850 | 36% | 0.3 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Office | High Bay Lighting | New | Fixture | 367 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Office | High Bay Lighting | New | Fixture | 342 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Office | High Bay Lighting | New | Fixture | 566 | 41% | 0.06 | 13 | \$397 | 36% | 0.4 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Office | High Bay Lighting | ROB | Fixture | 483 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Office | High Bay Lighting | ROB | Fixture | 450 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Office | High Bay Lighting | ROB | Fixture | 745 | 41% | 0.08 | 13 | \$397 | 36% | 0.5 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Office | High Bay Lighting | Early | Fixture | 938 | 19% | 0.05 | 13 | \$851 | 38% | 0.1 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Office | High Bay Lighting | Early | Fixture | 950 | 20% | 0.05 | 13 | \$851 | 38% | 0.2 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | Early | Fixture | 2,762 | 73% | 0.5 | 13 | \$851 | 38% | 1.7 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Office | High Bay Lighting | New | Fixture | 713 | 19% | 0.03 | 13 | \$372 | 38% | 0.3 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | New | Fixture | 2,099 | 73% | 0.4 | 13 | \$383 | 38% | 2.8 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Office | High Bay Lighting | ROB | Fixture | 938 | 19% | 0.05 | 13 | \$372 | 38% | 0.3 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | ROB | Fixture | 2,762 | 73% | 0.5 | 13 | \$383 | 38% | 3.7 |
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Office | High Bay Lighting | Early | Fixture | 938 | 25% | 0.06 | 13 | \$554 | 29% | 0.3 |
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Office | High Bay Lighting | Early | Fixture | 920 | 23% | 0.05 | 13 | \$554 | 28% | 0.3 |
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | Early | Fixture | 2,762 | 74% | 0.5 | 13 | \$554 | 36% | 2.6 |
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Office | High Bay Lighting | New | Fixture | 713 | 25% | 0.04 | 13 | \$75 | 29% | 1.7 |
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | New | Fixture | 2,099 | 74% | 0.4 | 13 | \$86 | 36% | 12.9 |
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Office | High Bay Lighting | ROB | Fixture | 938 | 25% | 0.06 | 13 | \$75 | 29% | 2.2 |
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | ROB | Fixture | 2,762 | 74% | 0.5 | 13 | \$86 | 36% | 16.9 |
| FE-Met Ed | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Office | High Bay Lighting | Early | Fixture | 245 | 0.2% | 0.00 | 13 | \$835 | 38% | 0.0 |
| FE-Met Ed | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Office | High Bay Lighting | Early | Fixture | 527 | 54% | 0.07 | 13 | \$835 | 38% | 0.2 |
| FE-Met Ed | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Office | High Bay Lighting | New | Fixture | 400 | 54% | 0.05 | 13 | \$382 | 38% | 0.4 |
| FE-Met Ed | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Office | High Bay Lighting | ROB | Fixture | 527 | 54% | 0.07 | 13 | \$382 | 38% | 0.5 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Office | High Bay Lighting | Early | Fixture | 1,195 | 18% | 0.05 | 13 | \$487 | 25% | 0.3 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Office | High Bay Lighting | Early | Fixture | 1,249 | 22% | 0.07 | 13 | \$487 | 28% | 0.4 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | Early | Fixture | 2,762 | 65% | 0.4 | 13 | \$487 | 36% | 2.6 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Office | High Bay Lighting | New | Fixture | 908 | 18% | 0.04 | 13 | \$16 | 25% | 7.2 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | New | Fixture | 2,099 | 65% | 0.3 | 13 | \$18 | 36% | 52.1 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Office | High Bay Lighting | ROB | Fixture | 1,195 | 18% | 0.05 | 13 | \$16 | 25% | 9.5 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | ROB | Fixture | 2,762 | 65% | 0.4 | 13 | \$18 | 36% | 68.6 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Office | High Bay Lighting | Early | Fixture | 1,195 | 1.5% | 0.00 | 13 | \$557 | 19% | 0.0 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Office | High Bay Lighting | Early | Fixture | 1,230 | 4.3% | 0.01 | 13 | \$557 | 19% | 0.1 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | Early | Fixture | 2,762 | 57% | 0.4 | 13 | \$557 | 19% | 2.0 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Office | High Bay Lighting | New | Fixture | 908 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | New | Fixture | 2,099 | 57% | 0.3 | 13 | \$88 | 19% | 9.6 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Office | High Bay Lighting | ROB | Fixture | 1,195 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | ROB | Fixture | 2,762 | 57% | 0.4 | 13 | \$88 | 19% | 12.7 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Office | High Bay Lighting | Early | Fixture | 507 | 29% | 0.03 | 13 | \$492 | 71% | 0.2 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Office | High Bay Lighting | Early | Fixture | 424 | 15% | 0.01 | 13 | \$492 | 95% | 0.1 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Office | High Bay Lighting | Early | Fixture | 630 | 43% | 0.05 | 13 | \$492 | 95% | 0.4 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Office | High Bay Lighting | Early | Fixture | 584 | 38% | 0.04 | 13 | \$492 | 95% | 0.3 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Office | High Bay Lighting | New | Fixture | 322 | 15% | 0.01 | 13 | \$25 | 95% | 1.2 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Office | High Bay Lighting | New | Fixture | 479 | 43% | 0.04 | 13 | \$51 | 95% | 2.6 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Office | High Bay Lighting | ROB | Fixture | 424 | 15% | 0.01 | 13 | \$25 | 95% | 1.6 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Office | High Bay Lighting | ROB | Fixture | 630 | 43% | 0.05 | 13 | \$51 | 95% | 3.4 |
| FE-Met Ed | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Office | High Bay Lighting | Early | lamp | 86 | 16% | 0.00 | 12 | \$7.7 | 99% | 1.2 |
| FE-Met Ed | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Office | High Bay Lighting | New | lamp | 51 | 13% | 0.00 | 12 | \$1.6 | 91% | 2.6 |
| FE-Met Ed | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Office | High Bay Lighting | ROB | lamp | 82 | 13% | 0.00 | 12 | \$1.6 | 91% | 4.1 |
| FE-Met Ed | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Office | High Bay Lighting | Early | Fixture | 2,826 | 23% | 0.2 | 13 | \$613 | 5% | 0.7 |
| FE-Met Ed | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Office | High Bay Lighting | Early | Fixture | 2,220 | 1.6% | 0.01 | 13 | \$613 | 28% | 0.0 |
| FE-Met Ed | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Office | High Bay Lighting | Early | Fixture | 5,524 | 60% | 0.8 | 13 | \$613 | 18% | 3.8 |
| FE-Met Ed | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Office | High Bay Lighting | New | Fixture | 2,148 | 23% | 0.1 | 13 | \$96 | 5% | 3.6 |
| FE-Met Ed | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Office | High Bay Lighting | ROB | Fixture | 2,826 | 23% | 0.2 | 13 | \$96 | 5% | 4.7 |
| FE-Met Ed | Auto Off Time Switch | Lighting w/ No Controls | Office | High Bay Lighting | Existing | building | 187 | 24% | 0.2 | 8 | \$628 | 13% | 0.3 |
| FE-Met Ed | Auto Off Time Switch | Lighting w/ No Controls | Office | High Bay Lighting | New | building | 187 | 6.9% | 0.07 | 8 | \$628 | 0% | 0.1 |
| FE-Met Ed | Central Lighting Control System | Lighting w/ No Controls | Office | High Bay Lighting | Existing | building | 187 | 38% | 0.4 | 8 | \$628 | 13% | 0.4 |
| FE-Met Ed | Central Lighting Control System | Lighting w/ No Controls | Office | High Bay Lighting | New | building | 187 | 14% | 0.1 | 8 | \$628 | 13% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|--|---------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Office | High Bay Lighting | New | building | 187 | 10% | 0.1 | 15 | \$28,258 | 32% | 0.0 |
| FE-Met Ed | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Office | High Bay Lighting | New | building | 187 | 15% | 0.2 | 15 | \$70,645 | 32% | 0.0 |
| FE-Met Ed | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Office | High Bay Lighting | New | building | 187 | 30% | 0.3 | 15 | \$101,258 | 32% | 0.0 |
| FE-Met Ed | Indoor Daylight Sensors | Lighting w/ No Controls | Office | High Bay Lighting | Existing | building | 187 | 28% | 0.3 | 8 | \$3,091 | 13% | 0.1 |
| FE-Met Ed | Indoor Daylight Sensors | Lighting w/ No Controls | Office | High Bay Lighting | New | building | 187 | 4.1% | 0.04 | 8 | \$3,091 | 0% | 0.0 |
| FE-Met Ed | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Office | High Bay Lighting | Early | Fixture | 2,826 | 92% | 0.7 | 13 | \$1,916 | 95% | 1.0 |
| FE-Met Ed | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | Early | Fixture | 5,524 | 96% | 1.3 | 13 | \$1,916 | 95% | 2.0 |
| FE-Met Ed | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Office | High Bay Lighting | New | Fixture | 2,148 | 92% | 0.5 | 13 | \$1,468 | 95% | 1.0 |
| FE-Met Ed | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | New | Fixture | 4,198 | 96% | 1.0 | 13 | \$1,149 | 95% | 2.5 |
| FE-Met Ed | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Office | High Bay Lighting | ROB | Fixture | 2,826 | 92% | 0.7 | 13 | \$1,468 | 95% | 1.3 |
| FE-Met Ed | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | ROB | Fixture | 5,524 | 96% | 1.3 | 13 | \$1,149 | 95% | 3.3 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Office | High Bay Lighting | Early | Fixture | 938 | 67% | 0.2 | 13 | \$960 | 95% | 0.5 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Office | High Bay Lighting | Early | Fixture | 2,762 | 89% | 0.6 | 13 | \$960 | 95% | 1.8 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Office | High Bay Lighting | Early | Fixture | 758 | 59% | 0.1 | 13 | \$960 | 95% | 0.3 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Office | High Bay Lighting | New | Fixture | 713 | 67% | 0.1 | 13 | \$480 | 95% | 0.7 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Office | High Bay Lighting | New | Fixture | 2,099 | 89% | 0.5 | 13 | \$491 | 95% | 2.7 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Office | High Bay Lighting | New | Fixture | 576 | 59% | 0.08 | 13 | \$406 | 95% | 0.6 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Office | High Bay Lighting | ROB | Fixture | 938 | 67% | 0.2 | 13 | \$480 | 95% | 0.9 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Office | High Bay Lighting | ROB | Fixture | 2,762 | 89% | 0.6 | 13 | \$491 | 95% | 3.5 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Office | High Bay Lighting | ROB | Fixture | 758 | 59% | 0.1 | 13 | \$406 | 95% | 0.8 |
| FE-Met Ed | Occupancy Sensor | Lighting w/ No Controls | Office | High Bay Lighting | Existing | building | 187 | 24% | 0.2 | 8 | \$946 | 12% | 0.2 |
| FE-Met Ed | Occupancy Sensor | Lighting w/ No Controls | Office | High Bay Lighting | New | building | 187 | 6.9% | 0.07 | 8 | \$946 | 0% | 0.0 |
| FE-Met Ed | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Office | High Bay Lighting | Existing | building | 187 | 28% | 0.3 | 8 | \$3,091 | 12% | 0.1 |
| FE-Met Ed | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Office | High Bay Lighting | New | building | 187 | 4.0% | 0.04 | 8 | \$3,091 | 0% | 0.0 |
| FE-Met Ed | Time Clock Control | Lighting w/ No Controls | Office | High Bay Lighting | Existing | building | 187 | 28% | 0.3 | 8 | \$628 | 13% | 0.3 |
| FE-Met Ed | Time Clock Control | Lighting w/ No Controls | Office | High Bay Lighting | New | building | 187 | 4.1% | 0.04 | 8 | \$628 | 0% | 0.0 |
| FE-Met Ed | Auto Off Time Switch | Lighting w/ No Controls | Office | Lin. Fluor. Lighting | Existing | building | 14,717 | 24% | 0.2 | 8 | \$628 | 13% | 2.1 |
| FE-Met Ed | Auto Off Time Switch | Lighting w/ No Controls | Office | Lin. Fluor. Lighting | New | building | 14,717 | 6.9% | 0.07 | 8 | \$628 | 0% | 0.6 |
| FE-Met Ed | Central Lighting Control System | Lighting w/ No Controls | Office | Lin. Fluor. Lighting | Existing | building | 14,717 | 38% | 0.4 | 8 | \$628 | 12% | 3.3 |
| FE-Met Ed | Central Lighting Control System | Lighting w/ No Controls | Office | Lin. Fluor. Lighting | New | building | 14,717 | 14% | 0.1 | 8 | \$628 | 12% | 1.2 |
| FE-Met Ed | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Office | Lin. Fluor. Lighting | New | building | 14,717 | 10% | 0.1 | 15 | \$28,258 | 32% | 0.0 |
| FE-Met Ed | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Office | Lin. Fluor. Lighting | New | building | 14,717 | 15% | 0.2 | 15 | \$70,645 | 32% | 0.0 |
| FE-Met Ed | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Office | Lin. Fluor. Lighting | New | building | 14,717 | 30% | 0.3 | 15 | \$101,258 | 32% | 0.0 |
| FE-Met Ed | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Office | Lin. Fluor. Lighting | Early | Lamp | 172 | 38% | 0.01 | 12 | \$7.3 | 94% | 5.5 |
| FE-Met Ed | Indoor Daylight Sensors | Lighting w/ No Controls | Office | Lin. Fluor. Lighting | Existing | building | 14,717 | 28% | 0.3 | 8 | \$3,091 | 13% | 0.5 |
| FE-Met Ed | Indoor Daylight Sensors | Lighting w/ No Controls | Office | Lin. Fluor. Lighting | New | building | 14,717 | 4.1% | 0.04 | 8 | \$3,091 | 0% | 0.1 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Office | Lin. Fluor. Lighting | Early | Lamp | 61 | 19% | 0.00 | 15 | \$35 | 94% | 0.3 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 40W T12 Lamp, Magnetic Ballast | Office | Lin. Fluor. Lighting | Early | Lamp | 134 | 63% | 0.02 | 15 | \$35 | 94% | 1.9 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Office | Lin. Fluor. Lighting | Early | Lamp | 75 | 34% | 0.01 | 15 | \$35 | 94% | 0.6 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Office | Lin. Fluor. Lighting | Early | Lamp | 73 | 32% | 0.01 | 15 | \$35 | 94% | 0.5 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Office | Lin. Fluor. Lighting | New | Lamp | 47 | 19% | 0.00 | 15 | \$28 | 94% | 0.3 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Office | Lin. Fluor. Lighting | New | Lamp | 56 | 32% | 0.00 | 15 | \$29 | 94% | 0.5 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Office | Lin. Fluor. Lighting | New | Lamp | 57 | 34% | 0.00 | 15 | \$22 | 94% | 0.7 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Office | Lin. Fluor. Lighting | New | Lamp | 56 | 32% | 0.00 | 15 | \$29 | 94% | 0.5 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Office | Lin. Fluor. Lighting | ROB | Lamp | 61 | 19% | 0.00 | 15 | \$28 | 94% | 0.3 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Office | Lin. Fluor. Lighting | ROB | Lamp | 73 | 32% | 0.01 | 15 | \$29 | 94% | 0.6 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Office | Lin. Fluor. Lighting | ROB | Lamp | 75 | 34% | 0.01 | 15 | \$22 | 94% | 1.0 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Office | Lin. Fluor. Lighting | ROB | Lamp | 73 | 32% | 0.01 | 15 | \$29 | 94% | 0.6 |
| FE-Met Ed | Occupancy Sensor | Lighting w/ No Controls | Office | Lin. Fluor. Lighting | Existing | building | 14,717 | 24% | 0.2 | 8 | \$946 | 13% | 1.4 |
| FE-Met Ed | Occupancy Sensor | Lighting w/ No Controls | Office | Lin. Fluor. Lighting | New | building | 14,717 | 7.0% | 0.07 | 8 | \$946 | 0% | 0.4 |
| FE-Met Ed | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Office | Lin. Fluor. Lighting | Existing | building | 14,717 | 28% | 0.3 | 8 | \$3,091 | 12% | 0.5 |
| FE-Met Ed | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Office | Lin. Fluor. Lighting | New | building | 14,717 | 4.1% | 0.04 | 8 | \$3,091 | 0% | 0.1 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 40W T12 w/ Magnetic Ballast | Office | Lin. Fluor. Lighting | Early | Lamp | 172 | 54% | 0.02 | 12 | \$9.1 | 94% | 6.3 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Office | Lin. Fluor. Lighting | Early | Lamp | 110 | 28% | 0.01 | 12 | \$9.1 | 24% | 2.1 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Office | Lin. Fluor. Lighting | Early | Lamp | 107 | 26% | 0.01 | 12 | \$9.1 | 94% | 1.9 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Office | Lin. Fluor. Lighting | New | Lamp | 81 | 26% | 0.00 | 12 | \$2.5 | 94% | 5.1 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Office | Lin. Fluor. Lighting | New | Lamp | 81 | 26% | 0.00 | 12 | \$2.5 | 94% | 5.1 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Office | Lin. Fluor. Lighting | New | Lamp | 84 | 28% | 0.00 | 12 | \$2.5 | 24% | 5.8 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Office | Lin. Fluor. Lighting | New | Lamp | 81 | 26% | 0.00 | 12 | \$2.5 | 94% | 5.1 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Office | Lin. Fluor. Lighting | ROB | Lamp | 107 | 26% | 0.01 | 12 | \$2.5 | 94% | 6.7 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Office | Lin. Fluor. Lighting | ROB | Lamp | 107 | 26% | 0.01 | 12 | \$2.5 | 94% | 6.8 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|--|---------|---------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | 50 HP Motor, Ultra-PE | 50 HP motor w/ baseline efficiency (4 pole) | Office | Motors | ROB | motor | 74,014 | 0.5% | 0.05 | 15 | \$273 | 79% | 1.0 |
| FE-Met Ed | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Office | Motors | Early | motor | 89,497 | 1.8% | 0.2 | 15 | \$4,430 | 70% | 0.2 |
| FE-Met Ed | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Office | Motors | Early | motor | 89,497 | 1.8% | 0.2 | 15 | \$4,430 | 70% | 0.2 |
| FE-Met Ed | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Office | Motors | Early | motor | 89,497 | 1.8% | 0.2 | 15 | \$4,430 | 70% | 0.2 |
| FE-Met Ed | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Office | Motors | Early | motor | 89,497 | 1.8% | 0.2 | 15 | \$4,430 | 70% | 0.3 |
| FE-Met Ed | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Office | Motors | Early | motor | 89,497 | 1.8% | 0.2 | 15 | \$4,430 | 70% | 0.2 |
| FE-Met Ed | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Office | Motors | New | motor | 88,349 | 0.5% | 0.06 | 15 | \$431 | 70% | 0.7 |
| FE-Met Ed | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Office | Motors | New | motor | 88,349 | 0.5% | 0.06 | 15 | \$431 | 70% | 0.7 |
| FE-Met Ed | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Office | Motors | New | motor | 88,349 | 0.5% | 0.07 | 15 | \$431 | 70% | 0.8 |
| FE-Met Ed | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Office | Motors | New | motor | 88,349 | 0.5% | 0.06 | 15 | \$431 | 70% | 0.7 |
| FE-Met Ed | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Office | Motors | ROB | motor | 88,349 | 0.5% | 0.06 | 15 | \$431 | 70% | 0.7 |
| FE-Met Ed | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Office | Motors | ROB | motor | 88,349 | 0.5% | 0.06 | 15 | \$431 | 70% | 0.7 |
| FE-Met Ed | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Office | Motors | ROB | motor | 88,349 | 0.5% | 0.07 | 15 | \$431 | 70% | 0.8 |
| FE-Met Ed | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Office | Motors | ROB | motor | 88,349 | 0.5% | 0.06 | 15 | \$431 | 70% | 0.7 |
| FE-Met Ed | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Office | Motors | Early | motor | 11,811 | 2.9% | 0.04 | 15 | \$802 | 83% | 0.3 |
| FE-Met Ed | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Office | Motors | Early | motor | 11,811 | 2.9% | 0.04 | 15 | \$802 | 83% | 0.3 |
| FE-Met Ed | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Office | Motors | Early | motor | 11,811 | 2.9% | 0.05 | 15 | \$802 | 83% | 0.3 |
| FE-Met Ed | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Office | Motors | Early | motor | 11,811 | 2.9% | 0.04 | 15 | \$802 | 83% | 0.3 |
| FE-Met Ed | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Office | Motors | New | motor | 11,529 | 0.5% | 0.01 | 15 | \$123 | 83% | 0.3 |
| FE-Met Ed | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Office | Motors | New | motor | 11,529 | 0.5% | 0.01 | 15 | \$123 | 83% | 0.3 |
| FE-Met Ed | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Office | Motors | New | motor | 11,529 | 0.6% | 0.01 | 15 | \$123 | 83% | 0.3 |
| FE-Met Ed | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Office | Motors | New | motor | 11,529 | 0.6% | 0.01 | 15 | \$123 | 83% | 0.4 |
| FE-Met Ed | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Office | Motors | New | motor | 11,529 | 0.6% | 0.01 | 15 | \$123 | 83% | 0.3 |
| FE-Met Ed | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Office | Motors | ROB | motor | 11,529 | 0.5% | 0.01 | 15 | \$123 | 83% | 0.3 |
| FE-Met Ed | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Office | Motors | ROB | motor | 11,529 | 0.5% | 0.01 | 15 | \$123 | 83% | 0.3 |
| FE-Met Ed | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Office | Motors | ROB | motor | 11,529 | 0.6% | 0.01 | 15 | \$123 | 83% | 0.3 |
| FE-Met Ed | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Office | Motors | ROB | motor | 11,529 | 0.6% | 0.01 | 15 | \$123 | 83% | 0.4 |
| FE-Met Ed | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Office | Motors | ROB | motor | 11,529 | 0.6% | 0.01 | 15 | \$123 | 83% | 0.3 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Office | Motors | Early | motor | 111,354 | 1.4% | 0.2 | 15 | \$3,955 | 61% | 0.3 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Office | Motors | Early | motor | 111,354 | 1.4% | 0.2 | 15 | \$3,955 | 61% | 0.3 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Office | Motors | Early | motor | 111,354 | 1.4% | 0.2 | 15 | \$3,955 | 61% | 0.3 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Office | Motors | Early | motor | 111,354 | 1.4% | 0.2 | 15 | \$3,955 | 61% | 0.3 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Office | Motors | New | motor | 110,436 | 0.5% | 0.08 | 15 | \$554 | 61% | 0.7 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Office | Motors | New | motor | 110,436 | 0.5% | 0.07 | 15 | \$554 | 61% | 0.7 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Office | Motors | New | motor | 110,436 | 0.5% | 0.08 | 15 | \$554 | 61% | 0.7 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Office | Motors | New | motor | 110,436 | 0.5% | 0.07 | 15 | \$554 | 61% | 0.7 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Office | Motors | ROB | motor | 110,436 | 0.5% | 0.08 | 15 | \$554 | 61% | 0.7 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Office | Motors | ROB | motor | 110,436 | 0.5% | 0.07 | 15 | \$554 | 61% | 0.7 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Office | Motors | ROB | motor | 110,436 | 0.5% | 0.08 | 15 | \$554 | 61% | 0.7 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Office | Motors | ROB | motor | 110,436 | 0.5% | 0.07 | 15 | \$554 | 61% | 0.7 |
| FE-Met Ed | CO sensors for parking garage exhaust fans | No CO Sensors | Office | Motors | Existing | building | 549 | 25% | 0.3 | 8 | \$64 | 4% | 3.0 |
| FE-Met Ed | CO sensors for parking garage exhaust fans | No CO Sensors | Office | Motors | New | building | 549 | 25% | 0.3 | 8 | \$64 | 4% | 3.0 |
| FE-Met Ed | demand controlled ventilation | Absence of Demand Controlled Ventilation | Office | Motors | Early | measure | 5,088 | 5.9% | 0.03 | 10 | \$41,922 | 92% | 0.0 |
| FE-Met Ed | demand controlled ventilation | Office building thermostat | Office | Motors | New | measure | 5,088 | 5.9% | 0.03 | 10 | \$31,300 | 92% | 0.0 |
| FE-Met Ed | demand controlled ventilation | Office building thermostat | Office | Motors | ROB | measure | 5,088 | 5.9% | 0.03 | 10 | \$31,300 | 92% | 0.0 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Office | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 23.1 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Office | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 23.6 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Office | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 23.9 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Office | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 24.6 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Office | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 24.9 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Office | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 22.8 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Office | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 23.4 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Office | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 23.8 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Office | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 24.4 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Office | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 25.2 |
| FE-Met Ed | Escalator Motor Controller | Constant power control | Office | Motors | New | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 22% | 6.3 |
| FE-Met Ed | Escalator Motor Controller | Constant power control | Office | Motors | ROB | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 22% | 6.3 |
| FE-Met Ed | Fan Motor - correct sizing | Incorrect Fan Motor Sizing | Office | Motors | ROB | measure | 5,088 | 2.9% | 0.02 | 15 | \$50 | 92% | 1.9 |
| FE-Met Ed | Variable Speed Drive Control, 15HP | Existing Motors w/out VSD Drive | Office | Motors | Early | motor | 23,058 | 70% | 2.4 | 15 | \$731 | 86% | 15.5 |
| FE-Met Ed | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Office | Motors | New | motor | 22,562 | 72% | 2.4 | 15 | \$731 | 86% | 15.5 |
| FE-Met Ed | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Office | Motors | ROB | motor | 22,562 | 72% | 2.4 | 15 | \$731 | 86% | 15.5 |
| FE-Met Ed | Variable Speed Drive Control, 40HP | Existing Motors w/out VSD Drive | Office | Motors | Early | motor | 60,166 | 71% | 6.3 | 15 | \$4,666 | 86% | 6.4 |
| FE-Met Ed | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Office | Motors | New | motor | 59,463 | 72% | 6.3 | 15 | \$4,666 | 86% | 6.4 |
| FE-Met Ed | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Office | Motors | ROB | motor | 59,463 | 72% | 6.3 | 15 | \$4,666 | 86% | 6.4 |
| FE-Met Ed | Variable Speed Drive Control, 5HP | Existing Motors w/out VFD Drive | Office | Motors | Early | motor | 7,993 | 72% | 0.8 | 15 | \$2,243 | 86% | 1.8 |
| FE-Met Ed | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Office | Motors | New | motor | 7,815 | 72% | 0.8 | 15 | \$2,243 | 86% | 1.7 |
| FE-Met Ed | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Office | Motors | ROB | motor | 7,815 | 72% | 0.8 | 15 | \$2,243 | 86% | 1.7 |
| FE-Met Ed | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Office | Motors | Early | motor | 4,390 | 26% | 0.1 | 15 | \$268 | 13% | 2.8 |
| FE-Met Ed | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Office | Motors | New | motor | 4,390 | 26% | 0.1 | 15 | \$268 | 13% | 2.8 |
| FE-Met Ed | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Office | Motors | ROB | motor | 4,390 | 26% | 0.1 | 15 | \$268 | 13% | 2.8 |
| FE-Met Ed | VFD on Chilled Water Pump | Motor w/out VFD Drive | Office | Motors | Early | motor | 16,590 | 55% | 2.7 | 15 | \$2,903 | 86% | 2.6 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|--|---------|---------------------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | VFD on Chilled Water Pump | Motor w/out VFD Drive | Office | Motors | New | motor | 16,280 | 55% | 2.7 | 15 | \$2,843 | 86% | 2.6 |
| FE-Met Ed | VFD on Chilled Water Pump | Motor w/out VFD Drive | Office | Motors | ROB | motor | 16,280 | 55% | 2.7 | 15 | \$2,843 | 86% | 2.6 |
| FE-Met Ed | VFD on Condenser Water Pump | Motor w/out VFD Drive | Office | Motors | Early | motor | 18,641 | 32% | 3.2 | 15 | \$2,903 | 86% | 2.2 |
| FE-Met Ed | VFD on Condenser Water Pump | Motor w/out VFD Drive | Office | Motors | New | motor | 18,292 | 33% | 3.1 | 15 | \$2,843 | 86% | 2.2 |
| FE-Met Ed | VFD on Condenser Water Pump | Motor w/out VFD Drive | Office | Motors | ROB | motor | 18,292 | 33% | 3.1 | 15 | \$2,843 | 86% | 2.2 |
| FE-Met Ed | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Office | Motors | Early | motor | 27,718 | 56% | 0.00 | 15 | \$2,903 | 86% | 2.9 |
| FE-Met Ed | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Office | Motors | New | motor | 27,199 | 57% | 0.00 | 15 | \$2,843 | 86% | 3.0 |
| FE-Met Ed | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Office | Motors | ROB | motor | 27,199 | 57% | 0.00 | 15 | \$2,843 | 86% | 3.0 |
| FE-Met Ed | VFD on HVAC Fan | Motor w/out VFD | Office | Motors | Early | motor | 18,724 | 70% | 3.4 | 15 | \$2,903 | 86% | 3.7 |
| FE-Met Ed | VFD on HVAC Fan | Motor w/out VFD | Office | Motors | New | motor | 18,373 | 72% | 3.3 | 15 | \$2,843 | 86% | 3.7 |
| FE-Met Ed | VFD on HVAC Fan | Motor w/out VFD | Office | Motors | ROB | motor | 18,373 | 72% | 3.3 | 15 | \$2,843 | 86% | 3.7 |
| FE-Met Ed | Elevators | Std. Eff Elevator | Office | Other | ROB | measure | 89,016 | 2.8% | 0.4 | 15 | \$1,228 | 63% | 1.5 |
| FE-Met Ed | Variable Speed Drives on Process Equipment | Constant speed control | Office | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 11.3 |
| FE-Met Ed | Variable Speed Drives on Process Equipment | Constant speed control | Office | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 11.3 |
| FE-Met Ed | Auto Off Time Switch | Lighting w/ No Controls | Office | Other Int. Lighting | Existing | building | 1,641 | 24% | 0.2 | 8 | \$628 | 13% | 0.4 |
| FE-Met Ed | Auto Off Time Switch | Lighting w/ No Controls | Office | Other Int. Lighting | New | building | 1,641 | 7.0% | 0.07 | 8 | \$628 | 0% | 0.1 |
| FE-Met Ed | Central Lighting Control System | Lighting w/ No Controls | Office | Other Int. Lighting | Existing | building | 1,641 | 38% | 0.4 | 8 | \$628 | 13% | 0.7 |
| FE-Met Ed | Central Lighting Control System | Lighting w/ No Controls | Office | Other Int. Lighting | New | building | 1,641 | 14% | 0.1 | 8 | \$628 | 13% | 0.3 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 40W Incandescent Bulb | Office | Other Int. Lighting | Early | lamp | 141 | 87% | 0.03 | 11 | \$30 | 14% | 2.5 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Office | Other Int. Lighting | Early | lamp | 101 | 81% | 0.02 | 11 | \$30 | 11% | 1.7 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Office | Other Int. Lighting | New | lamp | 77 | 81% | 0.02 | 11 | \$21 | 14% | 1.8 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Office | Other Int. Lighting | New | lamp | 77 | 81% | 0.02 | 11 | \$23 | 14% | 1.7 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Office | Other Int. Lighting | New | lamp | 77 | 81% | 0.02 | 11 | \$22 | 11% | 1.7 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Office | Other Int. Lighting | ROB | lamp | 101 | 81% | 0.02 | 11 | \$21 | 14% | 2.4 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Office | Other Int. Lighting | ROB | lamp | 101 | 81% | 0.02 | 11 | \$23 | 14% | 2.2 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Office | Other Int. Lighting | ROB | lamp | 101 | 81% | 0.02 | 11 | \$22 | 11% | 2.3 |
| FE-Met Ed | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Office | Other Int. Lighting | Early | lamp | 141 | 75% | 0.03 | 4 | \$73 | 24% | 0.4 |
| FE-Met Ed | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Office | Other Int. Lighting | New | fixture | 154 | 65% | 0.02 | 13 | \$29 | 28% | 2.5 |
| FE-Met Ed | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Office | Other Int. Lighting | New | lamp | 77 | 65% | 0.01 | 4 | \$29 | 28% | 0.5 |
| FE-Met Ed | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Office | Other Int. Lighting | ROB | fixture | 203 | 65% | 0.03 | 13 | \$29 | 24% | 3.2 |
| FE-Met Ed | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Office | Other Int. Lighting | ROB | lamp | 101 | 65% | 0.02 | 4 | \$29 | 24% | 0.6 |
| FE-Met Ed | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Office | Other Int. Lighting | Early | lamp | 141 | 75% | 0.03 | 4 | \$3.2 | 24% | 8.7 |
| FE-Met Ed | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Office | Other Int. Lighting | New | lamp | 77 | 65% | 0.01 | 4 | \$1.8 | 24% | 7.4 |
| FE-Met Ed | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Office | Other Int. Lighting | ROB | lamp | 101 | 65% | 0.02 | 4 | \$1.8 | 24% | 9.8 |
| FE-Met Ed | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Office | Other Int. Lighting | ROB | lamp | 101 | 65% | 0.02 | 4 | \$1.8 | 24% | 9.8 |
| FE-Met Ed | Exit Sign Retrofit: CFL replacing Incandescent | One 23W Single Sided Incandescent Exit Sign | Office | Other Int. Lighting | Early | exit sign | 140 | 42% | 0.01 | 15 | \$48 | 22% | 0.8 |
| FE-Met Ed | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Office | Other Int. Lighting | New | building | 1,641 | 10% | 0.1 | 15 | \$28,258 | 32% | 0.0 |
| FE-Met Ed | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Office | Other Int. Lighting | New | building | 1,641 | 15% | 0.2 | 15 | \$70,645 | 32% | 0.0 |
| FE-Met Ed | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Office | Other Int. Lighting | New | building | 1,641 | 30% | 0.3 | 15 | \$101,258 | 32% | 0.0 |
| FE-Met Ed | Indoor Daylight Sensors | Lighting w/ No Controls | Office | Other Int. Lighting | Existing | building | 1,641 | 28% | 0.3 | 8 | \$3,091 | 13% | 0.1 |
| FE-Met Ed | Indoor Daylight Sensors | Lighting w/ No Controls | Office | Other Int. Lighting | New | building | 1,641 | 4.1% | 0.04 | 8 | \$3,091 | 0% | 0.0 |
| FE-Met Ed | LED Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Office | Other Int. Lighting | Early | sign | 153 | 87% | 0.02 | 15 | \$48 | 16% | 1.9 |
| FE-Met Ed | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Office | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 2.1 |
| FE-Met Ed | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Office | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 2.1 |
| FE-Met Ed | LED Task Lighting/Screw-In | 1 15W CFL bulb | Office | Other Int. Lighting | Early | lamp | 22 | 33% | 0.00 | 15 | \$9.6 | 24% | 0.6 |
| FE-Met Ed | LED Task Lighting/Screw-In | 1 60W Incandescent Bulb | Office | Other Int. Lighting | Early | lamp | 88 | 83% | 0.02 | 15 | \$9.6 | 24% | 5.8 |
| FE-Met Ed | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Office | Other Int. Lighting | New | lamp | 48 | 77% | 0.01 | 15 | \$7.9 | 24% | 3.5 |
| FE-Met Ed | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Office | Other Int. Lighting | New | lamp | 48 | 77% | 0.01 | 15 | \$7.9 | 24% | 3.5 |
| FE-Met Ed | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Office | Other Int. Lighting | ROB | lamp | 63 | 77% | 0.01 | 15 | \$7.9 | 24% | 4.7 |
| FE-Met Ed | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Office | Other Int. Lighting | ROB | lamp | 63 | 77% | 0.01 | 15 | \$7.9 | 24% | 4.7 |
| FE-Met Ed | Occupancy Sensor | Lighting w/ No Controls | Office | Other Int. Lighting | Existing | building | 1,641 | 24% | 0.2 | 8 | \$946 | 12% | 0.3 |
| FE-Met Ed | Occupancy Sensor | Lighting w/ No Controls | Office | Other Int. Lighting | New | building | 1,641 | 7.0% | 0.07 | 8 | \$946 | 0% | 0.1 |
| FE-Met Ed | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Office | Other Int. Lighting | Existing | building | 1,641 | 28% | 0.3 | 8 | \$3,091 | 12% | 0.1 |
| FE-Met Ed | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Office | Other Int. Lighting | New | building | 1,641 | 4.1% | 0.04 | 8 | \$3,091 | 0% | 0.0 |
| FE-Met Ed | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Office | Other Int. Lighting | Early | exit sign | 140 | 100% | 0.02 | 15 | \$173 | 26% | 0.6 |
| FE-Met Ed | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Office | Other Int. Lighting | New | exit sign | 81 | 100% | 0.01 | 15 | \$148 | 31% | 0.4 |
| FE-Met Ed | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Office | Other Int. Lighting | ROB | exit sign | 81 | 100% | 0.01 | 15 | \$148 | 26% | 0.4 |
| FE-Met Ed | Time Clock Control | Lighting w/ No Controls | Office | Other Int. Lighting | Existing | building | 1,641 | 28% | 0.3 | 8 | \$628 | 13% | 0.5 |
| FE-Met Ed | Time Clock Control | Lighting w/ No Controls | Office | Other Int. Lighting | New | building | 1,641 | 4.1% | 0.04 | 8 | \$628 | 0% | 0.1 |
| FE-Met Ed | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Office | Plug Load | Existing | building | 5,128 | 46% | 0.5 | 5 | \$189 | 4% | 3.6 |
| FE-Met Ed | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Office | Plug Load | New | building | 5,128 | 46% | 0.5 | 5 | \$189 | 4% | 3.6 |
| FE-Met Ed | Data Center - Server/Storage Consolidation | No Consolidation | Office | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 36% | 0.0 |
| FE-Met Ed | Data Center - Server/Storage Consolidation | No Consolidation | Office | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 36% | 0.0 |
| FE-Met Ed | Data Center - Server/Storage Virtualization | No Virtualization | Office | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 36% | 0.0 |
| FE-Met Ed | Data Center - Server/Storage Virtualization | No Virtualization | Office | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 36% | 0.0 |
| FE-Met Ed | Energy Star - Scanners | Std Scanner | Office | Plug Load | New | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 88% | 0.1 |
| FE-Met Ed | Energy Star - Scanners | Std Scanner | Office | Plug Load | ROB | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 88% | 0.1 |
| FE-Met Ed | Energy Star Battery Charging System (for small cordless products) | Std. Battery Charging System | Office | Plug Load | ROB | measure | 593 | 2.3% | 1.3 | 5 | \$65 | 4% | 8.0 |
| FE-Met Ed | Energy Star Dishwasher | Existing Dishwasher units | Office | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,580 | 1% | 1.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|---|---------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Energy Star Dishwasher | Standard Dishwasher unit | Office | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 1% | 3.5 |
| FE-Met Ed | Energy Star Dishwasher | Standard Dishwasher unit | Office | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 1% | 3.5 |
| FE-Met Ed | Energy Star External Power Adapter | Std. Power Adapter | Office | Plug Load | New | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| FE-Met Ed | Energy Star External Power Adapter | Std. Power Adapter | Office | Plug Load | ROB | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| FE-Met Ed | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Office | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 17% | 0.2 |
| FE-Met Ed | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Office | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.1 |
| FE-Met Ed | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Office | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.1 |
| FE-Met Ed | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Office | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 9% | 0.8 |
| FE-Met Ed | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Office | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.7 |
| FE-Met Ed | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Office | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.7 |
| FE-Met Ed | ENERGY STAR® Copiers | 10% Less Efficient Copier | Office | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 80% | 0.0 |
| FE-Met Ed | ENERGY STAR® Copiers | One Conventional Copier | Office | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 80% | 0.0 |
| FE-Met Ed | ENERGY STAR® Copiers | One Conventional Copier | Office | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 80% | 0.0 |
| FE-Met Ed | ENERGY STAR® desktop | Standard computer | Office | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 87% | 0.1 |
| FE-Met Ed | ENERGY STAR® desktop | Standard computer | Office | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 87% | 2.4 |
| FE-Met Ed | ENERGY STAR® desktop | Standard computer | Office | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 87% | 2.4 |
| FE-Met Ed | ENERGY STAR® Fax | 10% Less Efficient Fax | Office | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 89% | 0.0 |
| FE-Met Ed | ENERGY STAR® Fax | One Conventional Fax | Office | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 89% | 0.2 |
| FE-Met Ed | ENERGY STAR® Fax | One Conventional Fax | Office | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 89% | 0.2 |
| FE-Met Ed | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Office | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 89% | 0.0 |
| FE-Met Ed | ENERGY STAR® Monitors | One Conventional Monitor | Office | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 89% | 0.0 |
| FE-Met Ed | ENERGY STAR® Monitors | One Conventional Monitor | Office | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 89% | 0.0 |
| FE-Met Ed | ENERGY STAR® Printers | 10% Less Efficient Printer | Office | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 89% | 0.0 |
| FE-Met Ed | ENERGY STAR® Printers | One Conventional Printer | Office | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 89% | 0.4 |
| FE-Met Ed | ENERGY STAR® Printers | One Conventional Printer | Office | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$130 | 89% | 0.4 |
| FE-Met Ed | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Office | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 87% | 0.1 |
| FE-Met Ed | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Office | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 87% | 0.8 |
| FE-Met Ed | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Office | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 87% | 0.8 |
| FE-Met Ed | ENERGY STAR® Televisions | 10% Less Efficient Television | Office | Plug Load | Early | Unit | 179 | 38% | 0.01 | 6 | \$672 | 85% | 0.0 |
| FE-Met Ed | ENERGY STAR® Televisions | One Conventional Television | Office | Plug Load | New | Unit | 163 | 32% | 0.01 | 6 | \$206 | 85% | 0.1 |
| FE-Met Ed | ENERGY STAR® Televisions | One Conventional Television | Office | Plug Load | ROB | Unit | 163 | 32% | 0.01 | 6 | \$206 | 85% | 0.1 |
| FE-Met Ed | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Office | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 81% | 0.3 |
| FE-Met Ed | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Office | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 81% | 0.7 |
| FE-Met Ed | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Office | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 81% | 0.7 |
| FE-Met Ed | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Office | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 51% | 0.3 |
| FE-Met Ed | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Office | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 51% | 0.3 |
| FE-Met Ed | Network PC Power Management | No PC Power Management | Office | Plug Load | Existing | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 19.1 |
| FE-Met Ed | Network PC Power Management | No PC Power Management | Office | Plug Load | New | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 19.1 |
| FE-Met Ed | Smart Strip Plug Outlets | Standard plug strip/outlet | Office | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.5 |
| FE-Met Ed | Smart Strip Plug Outlets | Standard plug strip/outlet | Office | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.5 |
| FE-Met Ed | Smart Strip Plug Outlets | Standard plug strip/outlet | Office | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Met Ed | Smart Strip Plug Outlets | Standard plug strip/outlet | Office | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Met Ed | Smart Strip Plug Outlets | Standard plug strip/outlet | Office | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Met Ed | Smart Strip Plug Outlets | Standard plug strip/outlet | Office | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Met Ed | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Office | Plug Load | Existing | building | 5,128 | 46% | 0.5 | 5 | \$180 | 3% | 3.8 |
| FE-Met Ed | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Office | Plug Load | New | building | 5,128 | 46% | 0.5 | 5 | \$180 | 3% | 3.8 |
| FE-Met Ed | Auto Closer on Refrigerator Door | Door w/out Autocloser | Office | Refrigeration | Existing | building | 1,258 | 55% | 0.5 | 8 | \$747 | 40% | 0.7 |
| FE-Met Ed | Auto Closer on Refrigerator Door | Door w/out Autocloser | Office | Refrigeration | Existing | building | 3,624 | 19% | 0.2 | 8 | \$476 | 40% | 0.7 |
| FE-Met Ed | Auto Closer on Refrigerator Door | Door w/out Autocloser | Office | Refrigeration | New | building | 1,258 | 55% | 0.5 | 8 | \$747 | 40% | 0.7 |
| FE-Met Ed | Auto Closer on Refrigerator Door | Door w/out Autocloser | Office | Refrigeration | New | building | 3,624 | 19% | 0.2 | 8 | \$476 | 40% | 0.7 |
| FE-Met Ed | Door Gasket- Freezer | Door w/out Gasket | Office | Refrigeration | Existing | building | 1,258 | 30% | 0.3 | 4 | \$77 | 29% | 2.1 |
| FE-Met Ed | Door Gasket- Freezer | Door w/out Gasket | Office | Refrigeration | New | building | 1,258 | 31% | 0.3 | 4 | \$77 | 29% | 2.2 |
| FE-Met Ed | Door Gasket- Refrigerator | Door w/out Gasket | Office | Refrigeration | Existing | building | 3,624 | 6.1% | 0.06 | 4 | \$66 | 45% | 0.9 |
| FE-Met Ed | Door Gasket- Refrigerator | Door w/out Gasket | Office | Refrigeration | New | building | 3,624 | 6.1% | 0.06 | 4 | \$66 | 45% | 0.9 |
| FE-Met Ed | eCube | Refrigeration unit w/out eCube | Office | Refrigeration | Existing | building | 3,624 | 15% | 0.2 | 15 | \$38 | 57% | 11.4 |
| FE-Met Ed | eCube | Refrigeration unit w/out eCube | Office | Refrigeration | New | building | 3,624 | 15% | 0.2 | 15 | \$38 | 57% | 11.4 |
| FE-Met Ed | Efficient compressor motor | Base Refrigeration System - Grocery | Office | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| FE-Met Ed | Efficient compressor motor | Base Refrigeration System - Grocery | Office | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| FE-Met Ed | Efficient compressor motor | Base Refrigeration System - Grocery | Office | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| FE-Met Ed | Efficient compressor motor | Base Refrigeration System - Grocery | Office | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| FE-Met Ed | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Office | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.6 |
| FE-Met Ed | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Office | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| FE-Met Ed | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Office | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| FE-Met Ed | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Office | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.3 |
| FE-Met Ed | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Office | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.8 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|---|---------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Office | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.8 |
| FE-Met Ed | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Office | Refrigeration | Existing | building | 3,624 | 3.5% | 0.04 | 10 | \$369 | 77% | 0.2 |
| FE-Met Ed | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Office | Refrigeration | New | building | 3,624 | 3.5% | 0.04 | 10 | \$369 | 77% | 0.2 |
| FE-Met Ed | Floating head pressure controller | System w/out FHPC | Office | Refrigeration | Existing | building | 1,258 | 18% | 0.05 | 15 | \$8,682 | 41% | 0.0 |
| FE-Met Ed | Floating head pressure controller | System w/out FHPC | Office | Refrigeration | Existing | building | 3,624 | 2.2% | 0.02 | 15 | \$8,682 | 41% | 0.0 |
| FE-Met Ed | Floating head pressure controller | System w/out FHPC | Office | Refrigeration | New | building | 1,258 | 18% | 0.05 | 15 | \$8,682 | 41% | 0.0 |
| FE-Met Ed | Floating head pressure controller | System w/out FHPC | Office | Refrigeration | New | building | 3,624 | 2.2% | 0.02 | 15 | \$8,682 | 41% | 0.0 |
| FE-Met Ed | High Efficiency Commercial Freezer | Std. Commercial Freezer | Office | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 86% | 0.3 |
| FE-Met Ed | High Efficiency Commercial Freezer | Std. Commercial Freezer | Office | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 4.1 |
| FE-Met Ed | High Efficiency Commercial Freezer | Std. Commercial Freezer | Office | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 4.1 |
| FE-Met Ed | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Office | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 2% | 0.1 |
| FE-Met Ed | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Office | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.9 |
| FE-Met Ed | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Office | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.9 |
| FE-Met Ed | High Efficiency Ice Maker | Exisiting Standard Efficiency Ice Maker in Pennsylvania | Office | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 73% | 0.2 |
| FE-Met Ed | High Efficiency Ice Maker | Standard code minimum Ice Maker | Office | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| FE-Met Ed | High Efficiency Ice Maker | Standard code minimum Ice Maker | Office | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| FE-Met Ed | High Efficiency Ice Making Head | Standard Ice Making Head | Office | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 4.0 |
| FE-Met Ed | High Efficiency Ice Making Head | Standard Ice Making Head | Office | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 4.0 |
| FE-Met Ed | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Office | Refrigeration | Early | Fixture | 373 | 56% | 0.02 | 8 | \$448 | 47% | 0.2 |
| FE-Met Ed | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Office | Refrigeration | New | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 47% | 0.3 |
| FE-Met Ed | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Office | Refrigeration | ROB | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 47% | 0.3 |
| FE-Met Ed | Quick acting freezer doors | Std. Freezer Doors | Office | Refrigeration | Existing | building | 1,258 | 13% | 0.1 | 10 | \$399 | 56% | 0.4 |
| FE-Met Ed | Quick acting freezer doors | Std. Freezer Doors | Office | Refrigeration | New | building | 1,258 | 13% | 0.1 | 10 | \$399 | 56% | 0.4 |
| FE-Met Ed | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Office | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 30% | 0.4 |
| FE-Met Ed | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Office | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.6 |
| FE-Met Ed | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Office | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.6 |
| FE-Met Ed | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 30% | 1.7 |
| FE-Met Ed | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 3.0 |
| FE-Met Ed | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 3.0 |
| FE-Met Ed | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 30% | 1.7 |
| FE-Met Ed | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 4.0 |
| FE-Met Ed | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 4.0 |
| FE-Met Ed | Refrigeration Commissioning | Non-commissioned refrigeration system | Office | Refrigeration | Existing | building | 5,033 | 9.5% | 0.10 | 3 | \$1,086 | 85% | 0.1 |
| FE-Met Ed | Refrigeration Commissioning | Non-commissioned refrigeration system | Office | Refrigeration | New | building | 5,033 | 9.5% | 0.10 | 3 | \$1,086 | 85% | 0.1 |
| FE-Met Ed | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Office | Refrigeration | Existing | building | 1,258 | 70% | 0.7 | 4 | \$93 | 22% | 4.2 |
| FE-Met Ed | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Office | Refrigeration | Existing | building | 3,624 | 8.5% | 0.09 | 4 | \$80 | 22% | 1.0 |
| FE-Met Ed | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Office | Refrigeration | New | building | 1,258 | 70% | 0.7 | 4 | \$93 | 22% | 4.2 |
| FE-Met Ed | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Office | Refrigeration | New | building | 3,624 | 8.5% | 0.09 | 4 | \$80 | 22% | 1.0 |
| FE-Met Ed | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Office | Refrigeration | Existing | building | 1,258 | 12% | 0.1 | 11 | \$117 | 79% | 1.3 |
| FE-Met Ed | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Office | Refrigeration | New | building | 1,258 | 12% | 0.1 | 11 | \$117 | 79% | 1.3 |
| FE-Met Ed | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Office | Refrigeration | Existing | building | 3,624 | 8.9% | 0.09 | 11 | \$117 | 79% | 1.7 |
| FE-Met Ed | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Office | Refrigeration | New | building | 3,624 | 8.9% | 0.09 | 11 | \$117 | 79% | 1.7 |
| FE-Met Ed | VSD Controlled Compressor | Compressor w/out VSD | Office | Refrigeration | Early | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.2 |
| FE-Met Ed | VSD Controlled Compressor | Compressor w/out VSD | Office | Refrigeration | New | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.2 |
| FE-Met Ed | VSD Controlled Compressor | Compressor w/out VSD | Office | Refrigeration | ROB | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.2 |
| FE-Met Ed | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Office | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$269 | 35% | 0.9 |
| FE-Met Ed | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Office | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$269 | 35% | 0.9 |
| FE-Met Ed | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Office | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.2 |
| FE-Met Ed | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Office | Refrigeration | New | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 3.0 |
| FE-Met Ed | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Office | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.2 |
| FE-Met Ed | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Office | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 3.0 |
| FE-Met Ed | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 35% | 2.4 |
| FE-Met Ed | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 35% | 2.3 |
| FE-Met Ed | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 5.2 |
| FE-Met Ed | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.9 |
| FE-Met Ed | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 5.2 |
| FE-Met Ed | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.9 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Office | Space Heating | Existing | building | 12,659 | 7.1% | 0.07 | 6 | \$11,966 | 82% | 0.0 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Office | Space Heating | New | building | 12,659 | 7.1% | 0.07 | 6 | \$11,966 | 82% | 0.0 |
| FE-Met Ed | Adding window shade film | No shade film | Office | Space Heating | Existing | building | 12,659 | 1.3% | 0.4 | 10 | \$154 | 13% | 2.1 |
| FE-Met Ed | Adding window shade film | No shade film | Office | Space Heating | New | building | 12,659 | 1.3% | 0.4 | 10 | \$154 | 13% | 2.1 |
| FE-Met Ed | Adding window shade screen | No shade screen | Office | Space Heating | Existing | building | 12,659 | 1.1% | 0.01 | 10 | \$60 | 13% | 1.0 |
| FE-Met Ed | Adding window shade screen | No shade screen | Office | Space Heating | New | building | 12,659 | 1.1% | 0.01 | 10 | \$60 | 13% | 1.0 |
| FE-Met Ed | Automated control system | Manual Controls | Office | Space Heating | Existing | building | 12,659 | 17% | 0.2 | 15 | \$13,859 | 51% | 0.1 |
| FE-Met Ed | Automated control system | Manual Controls | Office | Space Heating | New | building | 12,659 | 17% | 0.2 | 15 | \$13,859 | 94% | 0.1 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Office | Space Heating | Existing | building | 12,659 | 4.9% | 0.05 | 15 | \$16,437 | 71% | 0.0 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Office | Space Heating | New | building | 12,659 | 2.3% | 0.02 | 15 | \$15,624 | 94% | 0.0 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Office | Space Heating | Existing | building | 12,659 | 1.4% | 0.04 | 15 | \$101 | 20% | 1.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|--|--|---------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Office | Space Heating | New | building | 12,659 | 1.4% | 0.04 | 15 | \$101 | 10% | 1.3 |
| FE-Met Ed | Efficient Unit Heating System | Existing Unit Heaters in PA | Office | Space Heating | Early | heater | 10,898 | 23% | 0.02 | 15 | \$3,289 | 83% | 0.4 |
| FE-Met Ed | Efficient Unit Heating System | Std. Unit Heater | Office | Space Heating | New | heater | 9,672 | 13% | 0.01 | 15 | \$1,991 | 83% | 0.3 |
| FE-Met Ed | Efficient Unit Heating System | Std. Unit Heater | Office | Space Heating | ROB | heater | 9,672 | 13% | 0.01 | 15 | \$1,991 | 83% | 0.3 |
| FE-Met Ed | Facility Commissioning | No Facility Commissioning | Office | Space Heating | New | building | 12,659 | 16% | 0.2 | 10 | \$45,987 | 89% | 0.0 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Office | Space Heating | Existing | building | 12,659 | 7.1% | 0.07 | 15 | \$56,154 | 25% | 0.0 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Office | Space Heating | New | building | 12,659 | 7.1% | 0.07 | 15 | \$56,154 | 35% | 0.0 |
| FE-Met Ed | Hi Eff HVAC System Design | No HVAC Design | Office | Space Heating | New | building | 12,659 | 0.8% | 0.01 | 10 | \$1,042 | 51% | 0.0 |
| FE-Met Ed | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Office | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 1.1 |
| FE-Met Ed | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Office | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 1.1 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Office | Space Heating | Existing | building | 12,659 | 2.8% | 0.03 | 10 | \$7,735 | 81% | 0.0 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Office | Space Heating | New | building | 12,659 | 2.8% | 0.03 | 10 | \$7,735 | 81% | 0.0 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Office | Space Heating | Existing | building | 12,659 | 3.6% | 0.04 | 11 | \$286 | 49% | 0.7 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Office | Space Heating | New | building | 12,659 | 3.1% | 0.03 | 11 | \$146 | 49% | 1.2 |
| FE-Met Ed | Re-Commissioning (Existing Construction) | No Re-Commissioning | Office | Space Heating | Existing | building | 12,659 | 16% | 0.2 | 5 | \$7,777 | 86% | 0.1 |
| FE-Met Ed | VFD on Cooling Tower Fan | Motor w/out VFD | Office | Space Heating | Early | motor | 18,724 | 70% | 3.4 | 15 | \$2,843 | 88% | 3.6 |
| FE-Met Ed | VFD on Cooling Tower Fan | Motor w/out VFD | Office | Space Heating | New | motor | 18,373 | 72% | 3.3 | 15 | \$2,843 | 88% | 3.6 |
| FE-Met Ed | VFD on Cooling Tower Fan | Motor w/out VFD | Office | Space Heating | ROB | motor | 18,373 | 72% | 3.3 | 15 | \$2,843 | 88% | 3.6 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Office | Space Heating | Existing | building | 12,659 | 15% | 0.2 | 15 | \$5,028 | 26% | 0.2 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Office | Space Heating | New | building | 12,659 | 0.5% | 0.01 | 15 | \$3,857 | 94% | 0.0 |
| FE-Met Ed | Green LED Traffic Light | Green Incandescent Traffic Light | Office | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 0% | 1.3 |
| FE-Met Ed | Green LED Traffic Light | Green Incandescent Traffic Light | Office | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.2 |
| FE-Met Ed | Green LED Traffic Light | Green Incandescent Traffic Light | Office | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.2 |
| FE-Met Ed | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Office | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 0% | 3.1 |
| FE-Met Ed | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Office | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-Met Ed | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Office | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-Met Ed | Induction Street Lighting | One 100W HPS Street Light Fixture | Office | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 0% | 0.3 |
| FE-Met Ed | Induction Street Lighting | One 100W HPS Street Light Fixture | Office | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.8 |
| FE-Met Ed | Induction Street Lighting | One 100W HPS Street Light Fixture | Office | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.8 |
| FE-Met Ed | LED Street Lighting | One 100W HPS Street Light | Office | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 0% | 0.2 |
| FE-Met Ed | LED Street Lighting | One 100W HPS Street Light | Office | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-Met Ed | LED Street Lighting | One 100W HPS Street Light | Office | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-Met Ed | Red LED Traffic Light | One Red Incandescent Traffic Light | Office | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 0% | 1.7 |
| FE-Met Ed | Red LED Traffic Light | One Red Incandescent Traffic Light | Office | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| FE-Met Ed | Red LED Traffic Light | One Red Incandescent Traffic Light | Office | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| FE-Met Ed | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Office | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 0% | 0.1 |
| FE-Met Ed | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Office | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-Met Ed | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Office | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-Met Ed | Demand controlled Circulating Systems | Constant circulation system | Office | Water Heating | Existing | building | 874 | 20% | 0.2 | 15 | \$159 | 59% | 1.8 |
| FE-Met Ed | Demand controlled Circulating Systems | Constant circulation system | Office | Water Heating | New | building | 874 | 20% | 0.2 | 15 | \$159 | 59% | 1.8 |
| FE-Met Ed | Drainwater Heat Recovery Water Heater | No heat recovery | Office | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 2.0 |
| FE-Met Ed | Drainwater Heat Recovery Water Heater | No heat recovery | Office | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 2.0 |
| FE-Met Ed | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Office | Water Heating | Existing | building | 874 | 5.9% | 0.06 | 12 | \$70 | 85% | 1.0 |
| FE-Met Ed | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Office | Water Heating | New | building | 874 | 5.9% | 0.06 | 12 | \$20 | 85% | 3.6 |
| FE-Met Ed | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Office | Water Heating | Early | water heater | 9,692 | 66% | 1.1 | 10 | \$1,187 | 68% | 2.8 |
| FE-Met Ed | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Office | Water Heating | Early | water heater | 9,692 | 66% | 1.1 | 10 | \$1,187 | 68% | 2.8 |
| FE-Met Ed | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Office | Water Heating | New | water heater | 9,692 | 66% | 1.1 | 10 | \$1,187 | 68% | 2.8 |
| FE-Met Ed | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Office | Water Heating | New | water heater | 9,692 | 66% | 1.1 | 10 | \$1,187 | 68% | 2.8 |
| FE-Met Ed | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Office | Water Heating | ROB | water heater | 9,423 | 65% | 1.1 | 10 | \$1,187 | 68% | 2.7 |
| FE-Met Ed | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Office | Water Heating | ROB | water heater | 9,423 | 65% | 1.1 | 10 | \$1,187 | 68% | 2.7 |
| FE-Met Ed | Heat Recovery Unit | Base Water Heating | Office | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.7 |
| FE-Met Ed | Heat Recovery Unit | Base Water Heating | Office | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.7 |
| FE-Met Ed | Heat Trap | No Heat Trap | Office | Water Heating | Existing | building | 874 | 22% | 0.2 | 11 | \$6.0 | 50% | 42.5 |
| FE-Met Ed | Heat Trap | No Heat Trap | Office | Water Heating | New | building | 874 | 22% | 0.2 | 11 | \$0.9 | 50% | 285.5 |
| FE-Met Ed | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Office | Water Heating | Early | water heater | 9,692 | 5.9% | 0.1 | 15 | \$307 | 79% | 1.4 |
| FE-Met Ed | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Office | Water Heating | Early | water heater | 9,692 | 5.9% | 0.1 | 15 | \$307 | 79% | 1.4 |
| FE-Met Ed | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Office | Water Heating | New | water heater | 9,423 | 3.2% | 0.05 | 15 | \$307 | 79% | 0.7 |
| FE-Met Ed | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Office | Water Heating | New | water heater | 9,423 | 3.2% | 0.05 | 15 | \$307 | 79% | 0.7 |
| FE-Met Ed | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Office | Water Heating | ROB | water heater | 9,423 | 3.2% | 0.05 | 15 | \$307 | 79% | 0.7 |
| FE-Met Ed | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Office | Water Heating | ROB | water heater | 9,423 | 3.2% | 0.05 | 15 | \$307 | 79% | 0.7 |
| FE-Met Ed | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Office | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$466 | 81% | 41.0 |
| FE-Met Ed | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Office | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 21.4 |
| FE-Met Ed | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Office | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 21.4 |
| FE-Met Ed | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Office | Water Heating | Existing | building | 874 | 3.9% | 0.04 | 13 | \$5.1 | 68% | 9.9 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|--|--|--------------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Office | Water Heating | New | building | 874 | 3.9% | 0.04 | 13 | \$5.1 | 0% | 9.9 |
| FE-Met Ed | Hot Water Circulation Pump Time-Clock | Constant circulation system | Office | Water Heating | Existing | building | 874 | 5.3% | 0.05 | 10 | \$3.5 | 72% | 15.9 |
| FE-Met Ed | Hot Water Circulation Pump Time-Clock | Constant circulation system | Office | Water Heating | New | building | 874 | 5.3% | 0.05 | 10 | \$3.5 | 72% | 15.9 |
| FE-Met Ed | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Office | Water Heating | Existing | building | 874 | 1.1% | 0.01 | 7 | \$22 | 78% | 0.4 |
| FE-Met Ed | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Office | Water Heating | New | building | 874 | 0.9% | 0.01 | 7 | \$0.5 | 78% | 14.4 |
| FE-Met Ed | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Office | Water Heating | Existing | building | 874 | 13% | 0.1 | 5 | \$300 | 0% | 0.3 |
| FE-Met Ed | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Office | Water Heating | New | building | 874 | 13% | 0.1 | 5 | \$194 | 0% | 0.4 |
| FE-Met Ed | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Office | Water Heating | Existing | building | 874 | 6.5% | 0.07 | 9 | \$25 | 2% | 2.5 |
| FE-Met Ed | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Office | Water Heating | New | building | 874 | 6.5% | 0.07 | 9 | \$6.0 | 2% | 10.6 |
| FE-Met Ed | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Office | Water Heating | Early | water heater | 9,692 | 52% | 0.4 | 15 | \$6,222 | 32% | 0.5 |
| FE-Met Ed | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Office | Water Heating | New | water heater | 9,423 | 51% | 0.4 | 15 | \$6,222 | 32% | 0.5 |
| FE-Met Ed | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Office | Water Heating | ROB | water heater | 9,423 | 51% | 0.4 | 15 | \$6,222 | 32% | 0.5 |
| FE-Met Ed | Ultrasonic Faucet Control | Manual Faucet Control | Office | Water Heating | Existing | building | 874 | 3.0% | 0.03 | 10 | \$151 | 77% | 0.2 |
| FE-Met Ed | Ultrasonic Faucet Control | Manual Faucet Control | Office | Water Heating | New | building | 874 | 3.1% | 0.03 | 10 | \$151 | 77% | 0.2 |
| FE-Met Ed | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Office | Water Heating | Existing | building | 874 | 2.2% | 0.02 | 4 | \$28 | 83% | 0.4 |
| FE-Met Ed | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Office | Water Heating | New | building | 874 | 2.3% | 0.02 | 4 | \$28 | 83% | 0.4 |
| FE-Met Ed | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Other Inst'l | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.2 |
| FE-Met Ed | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Other Inst'l | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.2 |
| FE-Met Ed | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Other Inst'l | Cooking | Early | steamer | 51 | 46% | 0.00 | 12 | \$5,053 | 81% | 0.0 |
| FE-Met Ed | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Other Inst'l | Cooking | New | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-Met Ed | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Other Inst'l | Cooking | ROB | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-Met Ed | Electric combination oven (Energy Star) | Standard Oven | Other Inst'l | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 3.1 |
| FE-Met Ed | Electric combination oven (Energy Star) | Standard Oven | Other Inst'l | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 3.1 |
| FE-Met Ed | Electric Convection Oven | Conventional convection oven w/ 65% efficiency | Other Inst'l | Cooking | Early | oven | 8,641 | 37% | 0.6 | 12 | \$4,119 | 81% | 0.5 |
| FE-Met Ed | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Other Inst'l | Cooking | New | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.8 |
| FE-Met Ed | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Other Inst'l | Cooking | ROB | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.8 |
| FE-Met Ed | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Other Inst'l | Cooking | Early | fryer | 6,105 | 23% | 0.3 | 12 | \$9,241 | 86% | 0.1 |
| FE-Met Ed | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Other Inst'l | Cooking | New | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.4 |
| FE-Met Ed | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Other Inst'l | Cooking | ROB | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.4 |
| FE-Met Ed | High Efficiency Griddle (ENERGY STAR) | Efficiency code minimum griddle (70% eff) | Other Inst'l | Cooking | Early | griddle | 11,317 | 65% | 1.4 | 12 | \$4,977 | 86% | 0.9 |
| FE-Met Ed | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Other Inst'l | Cooking | New | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.3 |
| FE-Met Ed | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Other Inst'l | Cooking | ROB | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.3 |
| FE-Met Ed | High Efficiency Induction Cooking | Standard Cooking | Other Inst'l | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-Met Ed | High Efficiency Induction Cooking | Standard Cooking | Other Inst'l | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Other Inst'l | Cooling Central | Existing | building | 1,705 | 7.0% | 0.07 | 6 | \$12,513 | 82% | 0.0 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Other Inst'l | Cooling Central | New | building | 1,705 | 7.0% | 0.07 | 6 | \$12,513 | 82% | 0.0 |
| FE-Met Ed | Adding window shade film | No shade film | Other Inst'l | Cooling Central | Existing | building | 1,705 | 1.3% | 0.4 | 10 | \$21 | 12% | 13.2 |
| FE-Met Ed | Adding window shade film | No shade film | Other Inst'l | Cooling Central | New | building | 1,705 | 1.3% | 0.4 | 10 | \$21 | 13% | 13.2 |
| FE-Met Ed | Adding window shade screen | No shade screen | Other Inst'l | Cooling Central | Existing | building | 1,705 | 1.1% | 0.01 | 10 | \$8.0 | 13% | 1.8 |
| FE-Met Ed | Adding window shade screen | No shade screen | Other Inst'l | Cooling Central | New | building | 1,705 | 1.1% | 0.01 | 10 | \$8.0 | 13% | 1.8 |
| FE-Met Ed | Automated control system | Manual Controls | Other Inst'l | Cooling Central | Existing | building | 1,705 | 17% | 0.2 | 15 | \$1,866 | 51% | 0.2 |
| FE-Met Ed | Automated control system | Manual Controls | Other Inst'l | Cooling Central | New | building | 1,705 | 17% | 0.2 | 15 | \$1,866 | 94% | 0.2 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Other Inst'l | Cooling Central | Existing | building | 1,705 | 7.2% | 0.07 | 15 | \$17,130 | 71% | 0.0 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Other Inst'l | Cooling Central | New | building | 1,705 | 2.4% | 0.02 | 15 | \$16,283 | 94% | 0.0 |
| FE-Met Ed | Chiller Tuneup/Diagnostics | No tuneup | Other Inst'l | Cooling Central | Existing | building | 1,705 | 8.0% | 0.08 | 10 | \$4,353 | 59% | 0.0 |
| FE-Met Ed | Chiller Tuneup/Diagnostics | No tuneup | Other Inst'l | Cooling Central | New | building | 1,705 | 8.0% | 0.08 | 10 | \$4,353 | 59% | 0.0 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Other Inst'l | Cooling Central | Existing | building | 1,705 | 1.4% | 0.04 | 15 | \$14 | 20% | 3.8 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Other Inst'l | Cooling Central | New | building | 1,705 | 1.4% | 0.04 | 15 | \$14 | 10% | 3.8 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Other Inst'l | Cooling Central | Existing | building | 1,705 | 7.0% | 0.07 | 15 | \$7,563 | 25% | 0.0 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Other Inst'l | Cooling Central | New | building | 1,705 | 7.0% | 0.07 | 15 | \$7,563 | 35% | 0.0 |
| FE-Met Ed | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | Early | ton | 5,094 | 24% | 0.4 | 15 | \$108,550 | 88% | 0.0 |
| FE-Met Ed | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | New | ton | 4,164 | 6.7% | 0.10 | 15 | \$12,927 | 88% | 0.0 |
| FE-Met Ed | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | ROB | ton | 4,164 | 6.7% | 0.10 | 15 | \$12,927 | 88% | 0.0 |
| FE-Met Ed | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | Early | ton | 7,611 | 23% | 0.6 | 15 | \$140,105 | 88% | 0.0 |
| FE-Met Ed | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | New | ton | 6,124 | 4.9% | 0.1 | 15 | \$9,336 | 88% | 0.0 |
| FE-Met Ed | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | ROB | ton | 6,124 | 4.9% | 0.1 | 15 | \$9,336 | 88% | 0.0 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | Early | ton | 62,308 | 26% | 5.6 | 15 | \$105,354 | 88% | 0.1 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | New | ton | 54,288 | 15% | 2.8 | 15 | \$30,530 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | ROB | ton | 54,288 | 15% | 2.8 | 15 | \$30,530 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | Early | ton | 93,320 | 23% | 7.4 | 15 | \$154,107 | 88% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|--|--|--------------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | New | ton | 85,726 | 16% | 4.8 | 15 | \$27,646 | 88% | 0.4 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | ROB | ton | 93,320 | 23% | 7.4 | 15 | \$27,646 | 88% | 0.7 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | Early | ton | 154,988 | 23% | 12.2 | 15 | \$302,924 | 88% | 0.1 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | New | ton | 140,275 | 14% | 7.0 | 15 | \$115,432 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | ROB | ton | 154,988 | 23% | 12.2 | 15 | \$115,432 | 88% | 0.3 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | Early | ton | 185,985 | 23% | 14.6 | 15 | \$350,154 | 88% | 0.1 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | New | ton | 168,330 | 14% | 8.5 | 15 | \$120,406 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | ROB | ton | 185,985 | 23% | 14.6 | 15 | \$120,406 | 88% | 0.3 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | Early | ton | 41,225 | 29% | 4.2 | 15 | \$83,632 | 88% | 0.1 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | New | ton | 32,011 | 8.9% | 1.0 | 15 | \$40,211 | 88% | 0.1 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | ROB | ton | 41,225 | 29% | 4.2 | 15 | \$40,211 | 88% | 0.3 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | Early | ton | 70,835 | 35% | 8.6 | 15 | \$132,173 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | New | ton | 52,831 | 13% | 2.3 | 15 | \$39,556 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | ROB | ton | 52,831 | 13% | 2.3 | 15 | \$39,556 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | Early | ton | 118,265 | 39% | 16.1 | 15 | \$187,029 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | New | ton | 84,321 | 15% | 4.3 | 15 | \$33,554 | 88% | 0.3 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | ROB | ton | 118,265 | 39% | 16.1 | 15 | \$33,554 | 88% | 1.2 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | Early | ton | 20,695 | 30% | 2.1 | 15 | \$32,398 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | New | ton | 16,396 | 11% | 0.6 | 15 | \$7,188 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | ROB | ton | 20,695 | 30% | 2.1 | 15 | \$7,188 | 88% | 0.8 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Other Inst'l | Cooling Central | Existing | building | 1,705 | 1.0% | 0.01 | 10 | \$41,718 | 81% | 0.0 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Other Inst'l | Cooling Central | New | building | 1,705 | 1.1% | 0.01 | 10 | \$41,718 | 81% | 0.0 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Other Inst'l | Cooling Central | Existing | building | 1,705 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.1 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Other Inst'l | Cooling Central | New | building | 1,705 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.2 |
| FE-Met Ed | Re-Commissioning (Existing Construction) | No Re-Commissioning | Other Inst'l | Cooling Central | Existing | building | 1,705 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Other Inst'l | Cooling Central | Existing | building | 1,705 | 13% | 0.1 | 15 | \$3,285 | 26% | 0.1 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Other Inst'l | Cooling Central | New | building | 1,705 | 0.3% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| FE-Met Ed | <65k BTU/hr 14 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Other Inst'l | Cooling Unitary | Early | ton | 2,567 | 16% | 0.2 | 15 | \$1,545 | 29% | 0.3 |
| FE-Met Ed | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Other Inst'l | Cooling Unitary | New | ton | 2,325 | 7.1% | 0.09 | 15 | \$339 | 29% | 0.5 |
| FE-Met Ed | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Other Inst'l | Cooling Unitary | ROB | ton | 2,325 | 7.1% | 0.09 | 15 | \$339 | 29% | 0.5 |
| FE-Met Ed | <65k BTU/hr 15 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Other Inst'l | Cooling Unitary | Early | ton | 2,567 | 22% | 0.3 | 15 | \$1,821 | 30% | 0.3 |
| FE-Met Ed | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Other Inst'l | Cooling Unitary | New | ton | 2,325 | 13% | 0.2 | 15 | \$714 | 30% | 0.5 |
| FE-Met Ed | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Other Inst'l | Cooling Unitary | ROB | ton | 2,325 | 13% | 0.2 | 15 | \$714 | 30% | 0.5 |
| FE-Met Ed | <65k BTU/hr 16 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Other Inst'l | Cooling Unitary | Early | ton | 2,567 | 26% | 0.4 | 15 | \$2,098 | 31% | 0.3 |
| FE-Met Ed | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Other Inst'l | Cooling Unitary | New | ton | 2,325 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.4 |
| FE-Met Ed | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Other Inst'l | Cooling Unitary | ROB | ton | 2,325 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.4 |
| FE-Met Ed | >760k min 10.2 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Other Inst'l | Cooling Unitary | Early | ton | 64,948 | 3.7% | 1.3 | 15 | \$68,066 | 56% | 0.0 |
| FE-Met Ed | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Other Inst'l | Cooling Unitary | New | ton | 65,780 | 4.9% | 1.7 | 15 | \$6,231 | 56% | 0.6 |
| FE-Met Ed | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Other Inst'l | Cooling Unitary | ROB | ton | 65,780 | 4.9% | 1.7 | 15 | \$6,231 | 56% | 0.6 |
| FE-Met Ed | 135-240k min 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Other Inst'l | Cooling Unitary | Early | ton | 15,981 | 18% | 1.5 | 15 | \$18,135 | 79% | 0.2 |
| FE-Met Ed | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Other Inst'l | Cooling Unitary | New | ton | 14,537 | 10.0% | 0.8 | 15 | \$1,948 | 79% | 0.8 |
| FE-Met Ed | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Other Inst'l | Cooling Unitary | ROB | ton | 14,537 | 10.0% | 0.8 | 15 | \$1,948 | 79% | 0.8 |
| FE-Met Ed | 240k-760k min 11 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Other Inst'l | Cooling Unitary | Early | ton | 42,729 | 9.0% | 2.0 | 15 | \$44,809 | 66% | 0.1 |
| FE-Met Ed | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Other Inst'l | Cooling Unitary | New | ton | 42,835 | 9.3% | 2.1 | 15 | \$4,796 | 66% | 0.9 |
| FE-Met Ed | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Other Inst'l | Cooling Unitary | ROB | ton | 42,835 | 9.3% | 2.1 | 15 | \$4,796 | 66% | 0.9 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|--|--------------|-----------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | 65k-135k BTU/hr 12 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Other Inst'l | Cooling Unitary | Early | ton | 9,420 | 17% | 0.8 | 15 | \$10,946 | 86% | 0.2 |
| FE-Met Ed | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Other Inst'l | Cooling Unitary | New | ton | 8,396 | 6.7% | 0.3 | 15 | \$1,392 | 86% | 0.4 |
| FE-Met Ed | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Other Inst'l | Cooling Unitary | ROB | ton | 8,396 | 6.7% | 0.3 | 15 | \$1,392 | 86% | 0.4 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Other Inst'l | Cooling Unitary | Existing | building | 20,338 | 7.1% | 0.07 | 6 | \$12,513 | 82% | 0.0 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Other Inst'l | Cooling Unitary | New | building | 20,338 | 7.0% | 0.07 | 6 | \$12,513 | 82% | 0.0 |
| FE-Met Ed | Adding window shade film | No shade film | Other Inst'l | Cooling Unitary | Existing | building | 20,338 | 1.3% | 0.4 | 10 | \$247 | 12% | 1.5 |
| FE-Met Ed | Adding window shade film | No shade film | Other Inst'l | Cooling Unitary | New | building | 20,338 | 1.3% | 0.4 | 10 | \$247 | 13% | 1.5 |
| FE-Met Ed | Adding window shade screen | No shade screen | Other Inst'l | Cooling Unitary | Existing | building | 20,338 | 1.1% | 0.01 | 10 | \$96 | 12% | 1.0 |
| FE-Met Ed | Adding window shade screen | No shade screen | Other Inst'l | Cooling Unitary | New | building | 20,338 | 1.1% | 0.01 | 10 | \$96 | 13% | 1.0 |
| FE-Met Ed | Automated control system | Manual Controls | Other Inst'l | Cooling Unitary | Existing | building | 20,338 | 17% | 0.2 | 15 | \$22,265 | 51% | 0.1 |
| FE-Met Ed | Automated control system | Manual Controls | Other Inst'l | Cooling Unitary | New | building | 20,338 | 17% | 0.2 | 15 | \$22,265 | 94% | 0.1 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Other Inst'l | Cooling Unitary | Existing | building | 20,338 | 7.2% | 0.07 | 15 | \$17,130 | 71% | 0.1 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Other Inst'l | Cooling Unitary | New | building | 20,338 | 2.4% | 0.02 | 15 | \$16,283 | 94% | 0.0 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Other Inst'l | Cooling Unitary | Existing | building | 20,338 | 1.4% | 0.04 | 15 | \$162 | 20% | 1.2 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Other Inst'l | Cooling Unitary | New | building | 20,338 | 1.4% | 0.04 | 15 | \$162 | 10% | 1.2 |
| FE-Met Ed | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Other Inst'l | Cooling Unitary | Existing | building | 11,186 | 13% | 0.1 | 1 | \$107 | 73% | 0.8 |
| FE-Met Ed | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Other Inst'l | Cooling Unitary | New | building | 11,186 | 13% | 0.1 | 1 | \$107 | 73% | 0.8 |
| FE-Met Ed | ECM Motors for split systems | Std Shaded Pole Motor | Other Inst'l | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 3.0 |
| FE-Met Ed | ECM Motors for split systems | Std Shaded Pole Motor | Other Inst'l | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 3.0 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Other Inst'l | Cooling Unitary | Existing | building | 20,338 | 7.1% | 0.07 | 15 | \$90,213 | 25% | 0.0 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Other Inst'l | Cooling Unitary | New | building | 20,338 | 7.1% | 0.07 | 15 | \$90,213 | 35% | 0.0 |
| FE-Met Ed | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Other Inst'l | Cooling Unitary | Existing | building | 20,338 | 5.0% | 0.05 | 5 | \$225 | 59% | 1.1 |
| FE-Met Ed | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Other Inst'l | Cooling Unitary | Existing | building | 20,338 | 1.3% | 0.09 | 5 | \$225 | 51% | 0.4 |
| FE-Met Ed | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Other Inst'l | Cooling Unitary | New | building | 20,338 | 1.1% | 0.08 | 5 | \$135 | 51% | 0.6 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Other Inst'l | Cooling Unitary | Existing | building | 20,338 | 1.1% | 0.01 | 10 | \$44,835 | 86% | 0.0 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Other Inst'l | Cooling Unitary | New | building | 20,338 | 1.1% | 0.01 | 10 | \$44,835 | 86% | 0.0 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) | Other Inst'l | Cooling Unitary | Existing | building | 20,338 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.7 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Other Inst'l | Cooling Unitary | New | building | 20,338 | 1.7% | 0.02 | 11 | \$146 | 49% | 1.1 |
| FE-Met Ed | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Other Inst'l | Cooling Unitary | Early | unit | 1,434 | 19% | 0.09 | 15 | \$849 | 85% | 0.3 |
| FE-Met Ed | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Other Inst'l | Cooling Unitary | New | unit | 1,448 | 20% | 0.09 | 15 | \$356 | 85% | 0.7 |
| FE-Met Ed | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Other Inst'l | Cooling Unitary | ROB | unit | 1,448 | 20% | 0.09 | 15 | \$356 | 85% | 0.7 |
| FE-Met Ed | Re-Commissioning (Existing Construction) | No Re-Commissioning | Other Inst'l | Cooling Unitary | Existing | building | 20,338 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.1 |
| FE-Met Ed | Room AC (w/ louvered sides) | Existing efficiency Room AC in Pennsylvania (2000 Federal Standards) | Other Inst'l | Cooling Unitary | Early | ton | 1,185 | 13% | 0.06 | 9 | \$348 | 82% | 0.3 |
| FE-Met Ed | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Other Inst'l | Cooling Unitary | New | ton | 1,074 | 4.5% | 0.02 | 9 | \$17 | 82% | 1.6 |
| FE-Met Ed | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Other Inst'l | Cooling Unitary | ROB | ton | 1,074 | 4.5% | 0.02 | 9 | \$17 | 82% | 1.6 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Other Inst'l | Cooling Unitary | Existing | building | 20,338 | 13% | 0.1 | 15 | \$3,285 | 26% | 0.5 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Other Inst'l | Cooling Unitary | New | building | 20,338 | 0.3% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| FE-Met Ed | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Other Inst'l | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 1.2 |
| FE-Met Ed | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Other Inst'l | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.6 |
| FE-Met Ed | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Other Inst'l | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.6 |
| FE-Met Ed | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Other Inst'l | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 0% | 0.2 |
| FE-Met Ed | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Other Inst'l | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-Met Ed | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Other Inst'l | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-Met Ed | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Other Inst'l | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 75% | 0.3 |
| FE-Met Ed | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Other Inst'l | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 75% | 0.2 |
| FE-Met Ed | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Other Inst'l | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.9 |
| FE-Met Ed | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Other Inst'l | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.2 |
| FE-Met Ed | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Other Inst'l | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.9 |
| FE-Met Ed | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Other Inst'l | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.2 |
| FE-Met Ed | Photocell Controls (Outdoor) | Lighting w/ No Controls | Other Inst'l | Ext. Lighting | Existing | building | 169 | 28% | 0.3 | 8 | \$5,088 | 88% | 0.0 |
| FE-Met Ed | Photocell Controls (Outdoor) | Lighting w/ No Controls | Other Inst'l | Ext. Lighting | New | building | 169 | 28% | 0.3 | 8 | \$5,088 | 0% | 0.0 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Other Inst'l | Heat Pump | Existing | building | 1,878 | 6.9% | 0.07 | 6 | \$12,513 | 82% | 0.0 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Other Inst'l | Heat Pump | New | building | 1,878 | 6.9% | 0.07 | 6 | \$12,513 | 82% | 0.0 |
| FE-Met Ed | Adding window shade film | No shade film | Other Inst'l | Heat Pump | Existing | building | 1,878 | 3.9% | 0.4 | 10 | \$23 | 12% | 12.8 |
| FE-Met Ed | Adding window shade film | No shade film | Other Inst'l | Heat Pump | New | building | 1,878 | 3.9% | 0.4 | 10 | \$23 | 12% | 12.8 |
| FE-Met Ed | Adding window shade screen | No shade screen | Other Inst'l | Heat Pump | Existing | building | 1,878 | 0.3% | 0.01 | 10 | \$2.9 | 12% | 3.2 |
| FE-Met Ed | Adding window shade screen | No shade screen | Other Inst'l | Heat Pump | New | building | 1,878 | 0.3% | 0.01 | 10 | \$2.9 | 12% | 3.2 |
| FE-Met Ed | Automated control system | Manual Controls | Other Inst'l | Heat Pump | Existing | building | 1,878 | 17% | 0.2 | 15 | \$2,056 | 51% | 0.2 |
| FE-Met Ed | Automated control system | Manual Controls | Other Inst'l | Heat Pump | New | building | 1,878 | 17% | 0.2 | 15 | \$2,056 | 94% | 0.2 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Other Inst'l | Heat Pump | Existing | building | 1,878 | 7.2% | 0.07 | 15 | \$17,130 | 71% | 0.0 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Other Inst'l | Heat Pump | New | building | 1,878 | 2.4% | 0.02 | 15 | \$16,283 | 94% | 0.0 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Other Inst'l | Heat Pump | Existing | building | 1,878 | 4.0% | 0.04 | 15 | \$15 | 12% | 5.3 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Other Inst'l | Heat Pump | New | building | 1,878 | 4.0% | 0.04 | 15 | \$15 | 6% | 5.3 |
| FE-Met Ed | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Other Inst'l | Heat Pump | Early | heat pump | 2,289 | 12% | 0.02 | 15 | \$4,070 | 83% | 0.0 |
| FE-Met Ed | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Other Inst'l | Heat Pump | New | heat pump | 2,182 | 7.8% | 0.01 | 15 | \$1,097 | 83% | 0.1 |
| FE-Met Ed | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Other Inst'l | Heat Pump | ROB | heat pump | 2,182 | 7.8% | 0.01 | 15 | \$1,097 | 83% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|--|--|--------------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Other Inst'l | Heat Pump | Existing | building | 1,878 | 7.0% | 0.07 | 15 | \$8,330 | 25% | 0.0 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Other Inst'l | Heat Pump | New | building | 1,878 | 7.0% | 0.07 | 15 | \$8,330 | 35% | 0.0 |
| FE-Met Ed | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Other Inst'l | Heat Pump | Early | heat pump | 23,587 | 16% | 0.3 | 15 | \$91,117 | 19% | 0.0 |
| FE-Met Ed | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Other Inst'l | Heat Pump | New | heat pump | 22,730 | 13% | 0.3 | 15 | \$33,927 | 19% | 0.1 |
| FE-Met Ed | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Other Inst'l | Heat Pump | ROB | heat pump | 22,730 | 13% | 0.3 | 15 | \$33,927 | 19% | 0.1 |
| FE-Met Ed | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Other Inst'l | Heat Pump | Early | heat pump | 23,587 | 16% | 0.3 | 15 | \$58,356 | 19% | 0.0 |
| FE-Met Ed | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Other Inst'l | Heat Pump | New | heat pump | 22,730 | 13% | 0.3 | 15 | \$1,167 | 19% | 1.6 |
| FE-Met Ed | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Other Inst'l | Heat Pump | ROB | heat pump | 22,730 | 13% | 0.3 | 15 | \$1,167 | 19% | 1.6 |
| FE-Met Ed | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Other Inst'l | Heat Pump | Early | heat pump | 6,103 | 17% | 0.09 | 12 | \$4,298 | 81% | 0.1 |
| FE-Met Ed | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Other Inst'l | Heat Pump | New | heat pump | 5,819 | 12% | 0.06 | 12 | \$852 | 81% | 0.4 |
| FE-Met Ed | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Other Inst'l | Heat Pump | ROB | heat pump | 5,819 | 12% | 0.06 | 12 | \$852 | 81% | 0.4 |
| FE-Met Ed | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Other Inst'l | Heat Pump | Existing | building | 1,878 | 5.0% | 0.01 | 5 | \$90 | 51% | 0.3 |
| FE-Met Ed | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Other Inst'l | Heat Pump | New | building | 1,878 | 5.0% | 0.01 | 5 | \$90 | 51% | 0.3 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Other Inst'l | Heat Pump | Existing | building | 1,878 | 1.0% | 0.01 | 10 | \$39,918 | 81% | 0.0 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Other Inst'l | Heat Pump | New | building | 1,878 | 1.0% | 0.01 | 10 | \$39,918 | 81% | 0.0 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Other Inst'l | Heat Pump | Existing | building | 1,878 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.1 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Other Inst'l | Heat Pump | New | building | 1,878 | 2.1% | 0.02 | 11 | \$146 | 49% | 0.2 |
| FE-Met Ed | Re-Commissioning (Existing Construction) | No Re-Commissioning | Other Inst'l | Heat Pump | Existing | building | 1,878 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Other Inst'l | Heat Pump | Existing | building | 1,878 | 13% | 0.1 | 15 | \$3,285 | 26% | 0.1 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Other Inst'l | Heat Pump | New | building | 1,878 | 0.3% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| FE-Met Ed | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Other Inst'l | Heat Pump | Early | heat pump | 9,790 | 35% | 0.3 | 15 | \$35,347 | 28% | 0.1 |
| FE-Met Ed | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Other Inst'l | Heat Pump | New | heat pump | 9,304 | 31% | 0.3 | 15 | \$15,739 | 28% | 0.1 |
| FE-Met Ed | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Other Inst'l | Heat Pump | ROB | heat pump | 9,304 | 31% | 0.3 | 15 | \$15,739 | 28% | 0.1 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 299 | 9.6% | 0.01 | 13 | \$850 | 39% | 0.0 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Other Inst'l | High Bay Lighting | Early | Fixture | 299 | 9.5% | 0.01 | 13 | \$850 | 28% | 0.0 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 461 | 41% | 0.04 | 13 | \$850 | 36% | 0.1 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 227 | 9.6% | 0.00 | 13 | \$372 | 39% | 0.0 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 211 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 350 | 41% | 0.03 | 13 | \$397 | 36% | 0.2 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 299 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 278 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 461 | 41% | 0.04 | 13 | \$397 | 36% | 0.3 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 580 | 19% | 0.02 | 13 | \$851 | 38% | 0.1 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Other Inst'l | High Bay Lighting | Early | Fixture | 587 | 20% | 0.02 | 13 | \$851 | 38% | 0.1 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 1,708 | 73% | 0.2 | 13 | \$851 | 38% | 1.0 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 441 | 19% | 0.02 | 13 | \$372 | 38% | 0.1 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 1,298 | 73% | 0.2 | 13 | \$383 | 38% | 1.6 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 580 | 19% | 0.02 | 13 | \$372 | 38% | 0.2 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 1,708 | 73% | 0.2 | 13 | \$383 | 38% | 2.1 |
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 580 | 25% | 0.03 | 13 | \$554 | 29% | 0.2 |
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Other Inst'l | High Bay Lighting | Early | Fixture | 569 | 23% | 0.03 | 13 | \$554 | 28% | 0.2 |
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 1,708 | 74% | 0.2 | 13 | \$554 | 36% | 1.5 |
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 441 | 25% | 0.02 | 13 | \$75 | 29% | 1.0 |
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 1,298 | 74% | 0.2 | 13 | \$86 | 36% | 7.4 |
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 580 | 25% | 0.03 | 13 | \$75 | 29% | 1.3 |
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 1,708 | 74% | 0.2 | 13 | \$86 | 36% | 9.8 |
| FE-Met Ed | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Other Inst'l | High Bay Lighting | Early | Fixture | 151 | 0.2% | 0.00 | 13 | \$835 | 38% | 0.0 |
| FE-Met Ed | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 326 | 54% | 0.03 | 13 | \$835 | 38% | 0.1 |
| FE-Met Ed | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 248 | 54% | 0.03 | 13 | \$382 | 38% | 0.2 |
| FE-Met Ed | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 326 | 54% | 0.03 | 13 | \$382 | 38% | 0.3 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 739 | 18% | 0.03 | 13 | \$487 | 25% | 0.2 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Other Inst'l | High Bay Lighting | Early | Fixture | 773 | 22% | 0.03 | 13 | \$487 | 28% | 0.2 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 1,708 | 65% | 0.2 | 13 | \$487 | 36% | 1.5 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 562 | 18% | 0.02 | 13 | \$16 | 25% | 4.1 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 1,298 | 65% | 0.2 | 13 | \$18 | 36% | 30.0 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 739 | 18% | 0.03 | 13 | \$16 | 25% | 5.5 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 1,708 | 65% | 0.2 | 13 | \$18 | 36% | 39.5 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 739 | 1.5% | 0.00 | 13 | \$557 | 19% | 0.0 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Other Inst'l | High Bay Lighting | Early | Fixture | 761 | 4.3% | 0.01 | 13 | \$557 | 19% | 0.0 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 1,708 | 57% | 0.2 | 13 | \$557 | 19% | 1.2 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 562 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 1,298 | 57% | 0.1 | 13 | \$88 | 19% | 5.6 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 739 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 1,708 | 57% | 0.2 | 13 | \$88 | 19% | 7.3 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 314 | 29% | 0.01 | 13 | \$492 | 71% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|---|--------------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 262 | 15% | 0.01 | 13 | \$492 | 95% | 0.0 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 390 | 43% | 0.02 | 13 | \$492 | 95% | 0.2 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 361 | 38% | 0.02 | 13 | \$492 | 95% | 0.2 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 199 | 15% | 0.00 | 13 | \$25 | 95% | 0.7 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 296 | 43% | 0.02 | 13 | \$51 | 95% | 1.5 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 262 | 15% | 0.01 | 13 | \$25 | 95% | 1.0 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 390 | 43% | 0.02 | 13 | \$51 | 95% | 2.0 |
| FE-Met Ed | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Other Inst'l | High Bay Lighting | Early | lamp | 86 | 16% | 0.00 | 12 | \$7.7 | 99% | 1.2 |
| FE-Met Ed | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Other Inst'l | High Bay Lighting | New | lamp | 51 | 13% | 0.00 | 12 | \$1.6 | 91% | 2.6 |
| FE-Met Ed | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Other Inst'l | High Bay Lighting | ROB | lamp | 82 | 13% | 0.00 | 12 | \$1.6 | 91% | 4.1 |
| FE-Met Ed | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 1,748 | 23% | 0.08 | 13 | \$613 | 5% | 0.4 |
| FE-Met Ed | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Other Inst'l | High Bay Lighting | Early | Fixture | 1,373 | 1.6% | 0.00 | 13 | \$613 | 28% | 0.0 |
| FE-Met Ed | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 3,417 | 60% | 0.4 | 13 | \$613 | 18% | 2.2 |
| FE-Met Ed | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 1,329 | 23% | 0.06 | 13 | \$96 | 5% | 2.1 |
| FE-Met Ed | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 1,748 | 23% | 0.08 | 13 | \$96 | 5% | 2.7 |
| FE-Met Ed | Auto Off Time Switch | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | Existing | building | 612 | 24% | 0.2 | 8 | \$1,034 | 13% | 0.2 |
| FE-Met Ed | Auto Off Time Switch | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | New | building | 612 | 6.9% | 0.07 | 8 | \$1,034 | 0% | 0.1 |
| FE-Met Ed | Central Lighting Control System | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | Existing | building | 612 | 38% | 0.4 | 8 | \$1,034 | 13% | 0.3 |
| FE-Met Ed | Central Lighting Control System | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | New | building | 612 | 14% | 0.1 | 8 | \$1,034 | 13% | 0.1 |
| FE-Met Ed | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Other Inst'l | High Bay Lighting | New | building | 612 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.0 |
| FE-Met Ed | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Other Inst'l | High Bay Lighting | New | building | 612 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |
| FE-Met Ed | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Other Inst'l | High Bay Lighting | New | building | 612 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| FE-Met Ed | Indoor Daylight Sensors | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | Existing | building | 612 | 28% | 0.3 | 8 | \$5,088 | 13% | 0.0 |
| FE-Met Ed | Indoor Daylight Sensors | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | New | building | 612 | 4.0% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| FE-Met Ed | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 1,748 | 92% | 0.3 | 13 | \$1,916 | 95% | 0.6 |
| FE-Met Ed | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 3,417 | 96% | 0.6 | 13 | \$1,916 | 95% | 1.1 |
| FE-Met Ed | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 1,329 | 92% | 0.2 | 13 | \$1,468 | 95% | 0.5 |
| FE-Met Ed | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 2,597 | 96% | 0.5 | 13 | \$1,149 | 95% | 1.4 |
| FE-Met Ed | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 1,748 | 92% | 0.3 | 13 | \$1,468 | 95% | 0.7 |
| FE-Met Ed | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 3,417 | 96% | 0.6 | 13 | \$1,149 | 95% | 1.9 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 580 | 67% | 0.07 | 13 | \$960 | 95% | 0.3 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 1,708 | 89% | 0.3 | 13 | \$960 | 95% | 1.0 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 469 | 59% | 0.05 | 13 | \$960 | 95% | 0.2 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 441 | 67% | 0.06 | 13 | \$480 | 95% | 0.4 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 1,298 | 89% | 0.2 | 13 | \$491 | 95% | 1.5 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 356 | 59% | 0.04 | 13 | \$406 | 95% | 0.3 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 580 | 67% | 0.07 | 13 | \$480 | 95% | 0.5 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 1,708 | 89% | 0.3 | 13 | \$491 | 95% | 2.0 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 469 | 59% | 0.05 | 13 | \$406 | 95% | 0.4 |
| FE-Met Ed | Occupancy Sensor | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | Existing | building | 612 | 24% | 0.2 | 8 | \$1,558 | 11% | 0.1 |
| FE-Met Ed | Occupancy Sensor | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | New | building | 612 | 6.9% | 0.07 | 8 | \$1,558 | 0% | 0.0 |
| FE-Met Ed | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | Existing | building | 612 | 28% | 0.3 | 8 | \$5,088 | 11% | 0.0 |
| FE-Met Ed | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | New | building | 612 | 4.0% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| FE-Met Ed | Time Clock Control | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | Existing | building | 612 | 28% | 0.3 | 8 | \$1,034 | 13% | 0.2 |
| FE-Met Ed | Time Clock Control | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | New | building | 612 | 4.0% | 0.04 | 8 | \$1,034 | 0% | 0.0 |
| FE-Met Ed | Auto Off Time Switch | Lighting w/ No Controls | Other Inst'l | Lin. Fluor. Lighting | Existing | building | 21,675 | 24% | 0.2 | 8 | \$1,034 | 13% | 1.8 |
| FE-Met Ed | Auto Off Time Switch | Lighting w/ No Controls | Other Inst'l | Lin. Fluor. Lighting | New | building | 21,675 | 7.0% | 0.07 | 8 | \$1,034 | 0% | 0.5 |
| FE-Met Ed | Central Lighting Control System | Lighting w/ No Controls | Other Inst'l | Lin. Fluor. Lighting | Existing | building | 21,675 | 38% | 0.4 | 8 | \$1,034 | 12% | 2.8 |
| FE-Met Ed | Central Lighting Control System | Lighting w/ No Controls | Other Inst'l | Lin. Fluor. Lighting | New | building | 21,675 | 14% | 0.1 | 8 | \$1,034 | 12% | 1.0 |
| FE-Met Ed | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Other Inst'l | Lin. Fluor. Lighting | New | building | 21,675 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.0 |
| FE-Met Ed | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Other Inst'l | Lin. Fluor. Lighting | New | building | 21,675 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |
| FE-Met Ed | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Other Inst'l | Lin. Fluor. Lighting | New | building | 21,675 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| FE-Met Ed | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Other Inst'l | Lin. Fluor. Lighting | Early | Lamp | 172 | 38% | 0.01 | 12 | \$7.3 | 94% | 5.5 |
| FE-Met Ed | Indoor Daylight Sensors | Lighting w/ No Controls | Other Inst'l | Lin. Fluor. Lighting | Existing | building | 21,675 | 28% | 0.3 | 8 | \$5,088 | 13% | 0.4 |
| FE-Met Ed | Indoor Daylight Sensors | Lighting w/ No Controls | Other Inst'l | Lin. Fluor. Lighting | New | building | 21,675 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.1 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | Early | Lamp | 38 | 19% | 0.00 | 15 | \$35 | 94% | 0.2 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 40W T12 Lamp, Magnetic Ballast | Other Inst'l | Lin. Fluor. Lighting | Early | Lamp | 83 | 63% | 0.01 | 15 | \$35 | 94% | 1.1 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | Early | Lamp | 46 | 34% | 0.00 | 15 | \$35 | 94% | 0.3 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | Early | Lamp | 45 | 32% | 0.00 | 15 | \$35 | 94% | 0.3 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | New | Lamp | 29 | 19% | 0.00 | 15 | \$28 | 94% | 0.1 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | New | Lamp | 34 | 32% | 0.00 | 15 | \$29 | 94% | 0.3 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | New | Lamp | 35 | 34% | 0.00 | 15 | \$22 | 94% | 0.4 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | New | Lamp | 34 | 32% | 0.00 | 15 | \$29 | 94% | 0.3 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | ROB | Lamp | 38 | 19% | 0.00 | 15 | \$28 | 94% | 0.2 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | ROB | Lamp | 45 | 32% | 0.00 | 15 | \$29 | 94% | 0.4 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | ROB | Lamp | 46 | 34% | 0.00 | 15 | \$22 | 94% | 0.5 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | ROB | Lamp | 45 | 32% | 0.00 | 15 | \$29 | 94% | 0.4 |
| FE-Met Ed | Occupancy Sensor | Lighting w/ No Controls | Other Inst'l | Lin. Fluor. Lighting | Existing | building | 21,675 | 24% | 0.2 | 8 | \$1,558 | 12% | 1.2 |
| FE-Met Ed | Occupancy Sensor | Lighting w/ No Controls | Other Inst'l | Lin. Fluor. Lighting | New | building | 21,675 | 7.0% | 0.07 | 8 | \$1,558 | 0% | 0.3 |
| FE-Met Ed | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Other Inst'l | Lin. Fluor. Lighting | Existing | building | 21,675 | 28% | 0.3 | 8 | \$5,088 | 11% | 0.4 |
| FE-Met Ed | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Other Inst'l | Lin. Fluor. Lighting | New | building | 21,675 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|--|--------------|---------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Other Inst'l | Motors | New | motor | 44,940 | 72% | 4.7 | 15 | \$731 | 86% | 30.8 |
| FE-Met Ed | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Other Inst'l | Motors | ROB | motor | 44,940 | 72% | 4.7 | 15 | \$731 | 86% | 30.8 |
| FE-Met Ed | Variable Speed Drive Control, 40HP | Existing Motors w/out VSD Drive | Other Inst'l | Motors | Early | motor | 119,841 | 71% | 12.5 | 15 | \$4,666 | 86% | 12.7 |
| FE-Met Ed | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Other Inst'l | Motors | New | motor | 118,440 | 72% | 12.5 | 15 | \$4,666 | 86% | 12.7 |
| FE-Met Ed | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Other Inst'l | Motors | ROB | motor | 118,440 | 72% | 12.5 | 15 | \$4,666 | 86% | 12.7 |
| FE-Met Ed | Variable Speed Drive Control, 5HP | Existing Motors w/out VFD Drive | Other Inst'l | Motors | Early | motor | 15,922 | 72% | 1.7 | 15 | \$2,243 | 86% | 3.6 |
| FE-Met Ed | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Other Inst'l | Motors | New | motor | 15,566 | 72% | 1.6 | 15 | \$2,243 | 86% | 3.5 |
| FE-Met Ed | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Other Inst'l | Motors | ROB | motor | 15,566 | 72% | 1.6 | 15 | \$2,243 | 86% | 3.5 |
| FE-Met Ed | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Other Inst'l | Motors | Early | motor | 5,707 | 20% | 0.1 | 15 | \$268 | 13% | 2.8 |
| FE-Met Ed | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Other Inst'l | Motors | New | motor | 5,707 | 20% | 0.1 | 15 | \$268 | 13% | 2.8 |
| FE-Met Ed | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Other Inst'l | Motors | ROB | motor | 5,707 | 20% | 0.1 | 15 | \$268 | 13% | 2.8 |
| FE-Met Ed | VFD on Chilled Water Pump | Motor w/out VFD Drive | Other Inst'l | Motors | Early | motor | 16,590 | 55% | 2.7 | 15 | \$2,903 | 86% | 2.6 |
| FE-Met Ed | VFD on Chilled Water Pump | Motor w/out VFD Drive | Other Inst'l | Motors | New | motor | 16,280 | 55% | 2.7 | 15 | \$2,843 | 86% | 2.6 |
| FE-Met Ed | VFD on Chilled Water Pump | Motor w/out VFD Drive | Other Inst'l | Motors | ROB | motor | 16,280 | 55% | 2.7 | 15 | \$2,843 | 86% | 2.6 |
| FE-Met Ed | VFD on Condenser Water Pump | Motor w/out VFD Drive | Other Inst'l | Motors | Early | motor | 18,641 | 32% | 3.2 | 15 | \$2,903 | 86% | 2.2 |
| FE-Met Ed | VFD on Condenser Water Pump | Motor w/out VFD Drive | Other Inst'l | Motors | New | motor | 18,292 | 33% | 3.1 | 15 | \$2,843 | 86% | 2.2 |
| FE-Met Ed | VFD on Condenser Water Pump | Motor w/out VFD Drive | Other Inst'l | Motors | ROB | motor | 18,292 | 33% | 3.1 | 15 | \$2,843 | 86% | 2.2 |
| FE-Met Ed | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Other Inst'l | Motors | Early | motor | 27,718 | 56% | 0.00 | 15 | \$2,903 | 86% | 2.9 |
| FE-Met Ed | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Other Inst'l | Motors | New | motor | 27,199 | 57% | 0.00 | 15 | \$2,843 | 86% | 3.0 |
| FE-Met Ed | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Other Inst'l | Motors | ROB | motor | 27,199 | 57% | 0.00 | 15 | \$2,843 | 86% | 3.0 |
| FE-Met Ed | VFD on HVAC Fan | Motor w/out VFD | Other Inst'l | Motors | Early | motor | 18,724 | 70% | 3.4 | 15 | \$2,903 | 86% | 3.7 |
| FE-Met Ed | VFD on HVAC Fan | Motor w/out VFD | Other Inst'l | Motors | New | motor | 18,373 | 72% | 3.3 | 15 | \$2,843 | 86% | 3.7 |
| FE-Met Ed | VFD on HVAC Fan | Motor w/out VFD | Other Inst'l | Motors | ROB | motor | 18,373 | 72% | 3.3 | 15 | \$2,843 | 86% | 3.7 |
| FE-Met Ed | Variable Speed Drives on Process Equipment | Constant speed control | Other Inst'l | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 11.3 |
| FE-Met Ed | Variable Speed Drives on Process Equipment | Constant speed control | Other Inst'l | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 11.3 |
| FE-Met Ed | Auto Off Time Switch | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | Existing | building | 2,454 | 24% | 0.2 | 8 | \$1,034 | 13% | 0.3 |
| FE-Met Ed | Auto Off Time Switch | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | New | building | 2,454 | 7.0% | 0.07 | 8 | \$1,034 | 0% | 0.1 |
| FE-Met Ed | Central Lighting Control System | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | Existing | building | 2,454 | 38% | 0.4 | 8 | \$1,034 | 13% | 0.5 |
| FE-Met Ed | Central Lighting Control System | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | New | building | 2,454 | 14% | 0.1 | 8 | \$1,034 | 13% | 0.2 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 40W Incandescent Bulb | Other Inst'l | Other Int. Lighting | Early | lamp | 87 | 87% | 0.01 | 15 | \$30 | 14% | 1.8 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | Early | lamp | 62 | 81% | 0.01 | 15 | \$30 | 11% | 1.2 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | New | lamp | 47 | 81% | 0.01 | 15 | \$21 | 14% | 1.3 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | New | lamp | 47 | 81% | 0.01 | 15 | \$23 | 14% | 1.2 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | New | lamp | 47 | 81% | 0.01 | 15 | \$22 | 11% | 1.3 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | ROB | lamp | 62 | 81% | 0.01 | 15 | \$21 | 14% | 1.7 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | ROB | lamp | 62 | 81% | 0.01 | 15 | \$23 | 14% | 1.6 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | ROB | lamp | 62 | 81% | 0.01 | 15 | \$22 | 11% | 1.7 |
| FE-Met Ed | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Other Inst'l | Other Int. Lighting | Early | lamp | 87 | 75% | 0.01 | 7 | \$73 | 24% | 0.3 |
| FE-Met Ed | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Other Inst'l | Other Int. Lighting | New | fixture | 95 | 65% | 0.01 | 13 | \$29 | 28% | 1.4 |
| FE-Met Ed | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | New | lamp | 47 | 65% | 0.01 | 7 | \$29 | 28% | 0.4 |
| FE-Met Ed | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Other Inst'l | Other Int. Lighting | ROB | fixture | 125 | 65% | 0.01 | 13 | \$29 | 24% | 1.8 |
| FE-Met Ed | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | ROB | lamp | 62 | 65% | 0.01 | 7 | \$29 | 24% | 0.6 |
| FE-Met Ed | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Other Inst'l | Other Int. Lighting | Early | lamp | 87 | 75% | 0.01 | 7 | \$3.2 | 24% | 8.0 |
| FE-Met Ed | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | New | lamp | 47 | 65% | 0.01 | 7 | \$1.8 | 24% | 6.8 |
| FE-Met Ed | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | ROB | lamp | 62 | 65% | 0.01 | 7 | \$1.8 | 24% | 8.9 |
| FE-Met Ed | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | ROB | lamp | 62 | 65% | 0.01 | 7 | \$1.8 | 24% | 8.9 |
| FE-Met Ed | Exit Sign Retrofit: CFL replacing Incandescent | One 23W Single Sided Incandescent Exit Sign | Other Inst'l | Other Int. Lighting | Early | exit sign | 139 | 42% | 0.01 | 15 | \$48 | 22% | 0.8 |
| FE-Met Ed | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Other Inst'l | Other Int. Lighting | New | building | 2,454 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.0 |
| FE-Met Ed | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Other Inst'l | Other Int. Lighting | New | building | 2,454 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |
| FE-Met Ed | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Other Inst'l | Other Int. Lighting | New | building | 2,454 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| FE-Met Ed | Indoor Daylight Sensors | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | Existing | building | 2,454 | 28% | 0.3 | 8 | \$5,088 | 13% | 0.1 |
| FE-Met Ed | Indoor Daylight Sensors | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | New | building | 2,454 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| FE-Met Ed | LED Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Other Inst'l | Other Int. Lighting | Early | sign | 153 | 87% | 0.02 | 15 | \$48 | 16% | 1.9 |
| FE-Met Ed | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Other Inst'l | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 2.1 |
| FE-Met Ed | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Other Inst'l | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 2.1 |
| FE-Met Ed | LED Task Lighting/Screw-In | 1 15W CFL bulb | Other Inst'l | Other Int. Lighting | Early | lamp | 22 | 33% | 0.00 | 15 | \$9.6 | 24% | 0.6 |
| FE-Met Ed | LED Task Lighting/Screw-In | 1 60W Incandescent Bulb | Other Inst'l | Other Int. Lighting | Early | lamp | 89 | 83% | 0.01 | 15 | \$9.6 | 24% | 5.6 |
| FE-Met Ed | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Other Inst'l | Other Int. Lighting | New | lamp | 49 | 77% | 0.01 | 15 | \$7.9 | 24% | 3.4 |
| FE-Met Ed | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Other Inst'l | Other Int. Lighting | New | lamp | 49 | 77% | 0.01 | 15 | \$7.9 | 24% | 3.4 |
| FE-Met Ed | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Other Inst'l | Other Int. Lighting | ROB | lamp | 64 | 77% | 0.01 | 15 | \$7.9 | 24% | 4.5 |
| FE-Met Ed | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Other Inst'l | Other Int. Lighting | ROB | lamp | 64 | 77% | 0.01 | 15 | \$7.9 | 24% | 4.5 |
| FE-Met Ed | Occupancy Sensor | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | Existing | building | 2,454 | 24% | 0.2 | 8 | \$1,558 | 11% | 0.2 |
| FE-Met Ed | Occupancy Sensor | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | New | building | 2,454 | 7.0% | 0.07 | 8 | \$1,558 | 0% | 0.1 |
| FE-Met Ed | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | Existing | building | 2,454 | 28% | 0.3 | 8 | \$5,088 | 11% | 0.1 |
| FE-Met Ed | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | New | building | 2,454 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| FE-Met Ed | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Other Inst'l | Other Int. Lighting | Early | exit sign | 139 | 100% | 0.02 | 15 | \$173 | 26% | 0.5 |
| FE-Met Ed | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Other Inst'l | Other Int. Lighting | New | exit sign | 80 | 100% | 0.01 | 15 | \$148 | 31% | 0.4 |
| FE-Met Ed | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Other Inst'l | Other Int. Lighting | ROB | exit sign | 80 | 100% | 0.01 | 15 | \$148 | 26% | 0.4 |
| FE-Met Ed | Time Clock Control | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | Existing | building | 2,454 | 28% | 0.3 | 8 | \$1,034 | 13% | 0.4 |
| FE-Met Ed | Time Clock Control | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | New | building | 2,454 | 4.1% | 0.04 | 8 | \$1,034 | 0% | 0.1 |
| FE-Met Ed | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Other Inst'l | Plug Load | Existing | building | 680 | 46% | 0.5 | 5 | \$189 | 4% | 1.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|---|--------------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Other Inst'l | Plug Load | New | building | 680 | 46% | 0.5 | 5 | \$189 | 4% | 1.3 |
| FE-Met Ed | Data Center - Server/Storage Consolidation | No Consolidation | Other Inst'l | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Met Ed | Data Center - Server/Storage Consolidation | No Consolidation | Other Inst'l | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Met Ed | Data Center - Server/Storage Virtualization | No Virtualization | Other Inst'l | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Met Ed | Data Center - Server/Storage Virtualization | No Virtualization | Other Inst'l | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Met Ed | Energy Star - Scanners | Std Scanner | Other Inst'l | Plug Load | New | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| FE-Met Ed | Energy Star - Scanners | Std Scanner | Other Inst'l | Plug Load | ROB | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| FE-Met Ed | Energy Star Dishwasher | Existing Dishwasher units | Other Inst'l | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,580 | 1% | 1.1 |
| FE-Met Ed | Energy Star Dishwasher | Standard Dishwasher unit | Other Inst'l | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 1% | 3.5 |
| FE-Met Ed | Energy Star Dishwasher | Standard Dishwasher unit | Other Inst'l | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 1% | 3.5 |
| FE-Met Ed | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Other Inst'l | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 17% | 0.2 |
| FE-Met Ed | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Other Inst'l | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.1 |
| FE-Met Ed | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Other Inst'l | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.1 |
| FE-Met Ed | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Other Inst'l | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 9% | 0.8 |
| FE-Met Ed | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Other Inst'l | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.7 |
| FE-Met Ed | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Other Inst'l | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.7 |
| FE-Met Ed | ENERGY STAR® Copiers | 10% Less Efficient Copier | Other Inst'l | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 18% | 0.0 |
| FE-Met Ed | ENERGY STAR® Copiers | One Conventional Copier | Other Inst'l | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| FE-Met Ed | ENERGY STAR® Copiers | One Conventional Copier | Other Inst'l | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| FE-Met Ed | ENERGY STAR® desktop | Standard computer | Other Inst'l | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 69% | 0.1 |
| FE-Met Ed | ENERGY STAR® desktop | Standard computer | Other Inst'l | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.4 |
| FE-Met Ed | ENERGY STAR® desktop | Standard computer | Other Inst'l | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.4 |
| FE-Met Ed | ENERGY STAR® Fax | 10% Less Efficient Fax | Other Inst'l | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 15% | 0.0 |
| FE-Met Ed | ENERGY STAR® Fax | One Conventional Fax | Other Inst'l | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| FE-Met Ed | ENERGY STAR® Fax | One Conventional Fax | Other Inst'l | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| FE-Met Ed | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Other Inst'l | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 70% | 0.0 |
| FE-Met Ed | ENERGY STAR® Monitors | One Conventional Monitor | Other Inst'l | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| FE-Met Ed | ENERGY STAR® Monitors | One Conventional Monitor | Other Inst'l | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| FE-Met Ed | ENERGY STAR® Printers | 10% Less Efficient Printer | Other Inst'l | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 44% | 0.0 |
| FE-Met Ed | ENERGY STAR® Printers | One Conventional Printer | Other Inst'l | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.4 |
| FE-Met Ed | ENERGY STAR® Printers | One Conventional Printer | Other Inst'l | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.4 |
| FE-Met Ed | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Other Inst'l | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 43% | 0.1 |
| FE-Met Ed | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Other Inst'l | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.8 |
| FE-Met Ed | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Other Inst'l | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.8 |
| FE-Met Ed | ENERGY STAR® Televisions | 10% Less Efficient Television | Other Inst'l | Plug Load | Early | Unit | 111 | 38% | 0.01 | 6 | \$672 | 40% | 0.0 |
| FE-Met Ed | ENERGY STAR® Televisions | One Conventional Television | Other Inst'l | Plug Load | New | Unit | 101 | 32% | 0.01 | 6 | \$206 | 40% | 0.1 |
| FE-Met Ed | ENERGY STAR® Televisions | One Conventional Television | Other Inst'l | Plug Load | ROB | Unit | 101 | 32% | 0.01 | 6 | \$206 | 40% | 0.1 |
| FE-Met Ed | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Other Inst'l | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 24% | 0.3 |
| FE-Met Ed | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Other Inst'l | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.7 |
| FE-Met Ed | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Other Inst'l | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.7 |
| FE-Met Ed | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Other Inst'l | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.3 |
| FE-Met Ed | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Other Inst'l | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.3 |
| FE-Met Ed | Network PC Power Management | No PC Power Management | Other Inst'l | Plug Load | Existing | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 10.5 |
| FE-Met Ed | Network PC Power Management | No PC Power Management | Other Inst'l | Plug Load | New | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 10.5 |
| FE-Met Ed | Smart Strip Plug Outlets | Standard plug strip/outlet | Other Inst'l | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.5 |
| FE-Met Ed | Smart Strip Plug Outlets | Standard plug strip/outlet | Other Inst'l | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.5 |
| FE-Met Ed | Smart Strip Plug Outlets | Standard plug strip/outlet | Other Inst'l | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Met Ed | Smart Strip Plug Outlets | Standard plug strip/outlet | Other Inst'l | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Met Ed | Smart Strip Plug Outlets | Standard plug strip/outlet | Other Inst'l | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Met Ed | Smart Strip Plug Outlets | Standard plug strip/outlet | Other Inst'l | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Met Ed | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Other Inst'l | Plug Load | Existing | building | 680 | 46% | 0.5 | 5 | \$180 | 3% | 1.4 |
| FE-Met Ed | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Other Inst'l | Plug Load | New | building | 680 | 46% | 0.5 | 5 | \$180 | 3% | 1.4 |
| FE-Met Ed | Auto Closer on Refrigerator Door | Door w/out Autocloser | Other Inst'l | Refrigeration | Existing | building | 2,550 | 53% | 0.5 | 8 | \$747 | 40% | 1.0 |
| FE-Met Ed | Auto Closer on Refrigerator Door | Door w/out Autocloser | Other Inst'l | Refrigeration | Existing | building | 2,397 | 31% | 0.3 | 8 | \$763 | 40% | 0.5 |
| FE-Met Ed | Auto Closer on Refrigerator Door | Door w/out Autocloser | Other Inst'l | Refrigeration | New | building | 2,550 | 53% | 0.5 | 8 | \$747 | 40% | 1.0 |
| FE-Met Ed | Auto Closer on Refrigerator Door | Door w/out Autocloser | Other Inst'l | Refrigeration | New | building | 2,397 | 31% | 0.3 | 8 | \$763 | 40% | 0.5 |
| FE-Met Ed | Door Gasket- Freezer | Door w/out Gasket | Other Inst'l | Refrigeration | Existing | building | 2,550 | 29% | 0.3 | 4 | \$77 | 29% | 2.9 |
| FE-Met Ed | Door Gasket- Freezer | Door w/out Gasket | Other Inst'l | Refrigeration | New | building | 2,550 | 32% | 0.3 | 4 | \$77 | 29% | 3.2 |
| FE-Met Ed | Door Gasket- Refrigerator | Door w/out Gasket | Other Inst'l | Refrigeration | Existing | building | 2,397 | 9.5% | 0.10 | 4 | \$105 | 45% | 0.7 |
| FE-Met Ed | Door Gasket- Refrigerator | Door w/out Gasket | Other Inst'l | Refrigeration | New | building | 2,397 | 9.5% | 0.10 | 4 | \$105 | 45% | 0.7 |
| FE-Met Ed | eCube | Refrigeration unit w/out eCube | Other Inst'l | Refrigeration | Existing | building | 2,397 | 15% | 0.2 | 15 | \$700 | 57% | 0.5 |
| FE-Met Ed | eCube | Refrigeration unit w/out eCube | Other Inst'l | Refrigeration | New | building | 2,397 | 15% | 0.2 | 15 | \$700 | 57% | 0.5 |
| FE-Met Ed | Efficient compressor motor | Base Refrigeration System - Grocery | Other Inst'l | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| FE-Met Ed | Efficient compressor motor | Base Refrigeration System - Grocery | Other Inst'l | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| FE-Met Ed | Efficient compressor motor | Base Refrigeration System - Grocery | Other Inst'l | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| FE-Met Ed | Efficient compressor motor | Base Refrigeration System - Grocery | Other Inst'l | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| FE-Met Ed | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Other Inst'l | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.6 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|--|--------------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Other Inst'l | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| FE-Met Ed | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Other Inst'l | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| FE-Met Ed | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Other Inst'l | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.3 |
| FE-Met Ed | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Other Inst'l | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.8 |
| FE-Met Ed | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Other Inst'l | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.8 |
| FE-Met Ed | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Other Inst'l | Refrigeration | Existing | building | 2,397 | 3.4% | 0.03 | 10 | \$369 | 77% | 0.1 |
| FE-Met Ed | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Other Inst'l | Refrigeration | New | building | 2,397 | 3.4% | 0.03 | 10 | \$369 | 77% | 0.1 |
| FE-Met Ed | Floating head pressure controller | System w/out FHPC | Other Inst'l | Refrigeration | Existing | building | 2,550 | 9.0% | 0.05 | 15 | \$8,682 | 41% | 0.0 |
| FE-Met Ed | Floating head pressure controller | System w/out FHPC | Other Inst'l | Refrigeration | Existing | building | 2,397 | 3.4% | 0.02 | 15 | \$8,682 | 41% | 0.0 |
| FE-Met Ed | Floating head pressure controller | System w/out FHPC | Other Inst'l | Refrigeration | New | building | 2,550 | 9.0% | 0.05 | 15 | \$8,682 | 41% | 0.0 |
| FE-Met Ed | Floating head pressure controller | System w/out FHPC | Other Inst'l | Refrigeration | New | building | 2,397 | 3.4% | 0.02 | 15 | \$8,682 | 41% | 0.0 |
| FE-Met Ed | High Efficiency Commercial Freezer | Std. Commercial Freezer | Other Inst'l | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 86% | 0.3 |
| FE-Met Ed | High Efficiency Commercial Freezer | Std. Commercial Freezer | Other Inst'l | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 4.1 |
| FE-Met Ed | High Efficiency Commercial Freezer | Std. Commercial Freezer | Other Inst'l | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 4.1 |
| FE-Met Ed | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Other Inst'l | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 2% | 0.1 |
| FE-Met Ed | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Other Inst'l | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.9 |
| FE-Met Ed | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Other Inst'l | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.9 |
| FE-Met Ed | High Efficiency Ice Maker | Existing Standard Efficiency Ice Maker in Pennsylvania | Other Inst'l | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 73% | 0.2 |
| FE-Met Ed | High Efficiency Ice Maker | Standard code minimum Ice Maker | Other Inst'l | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| FE-Met Ed | High Efficiency Ice Maker | Standard code minimum Ice Maker | Other Inst'l | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| FE-Met Ed | High Efficiency Ice Making Head | Standard Ice Making Head | Other Inst'l | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 4.0 |
| FE-Met Ed | High Efficiency Ice Making Head | Standard Ice Making Head | Other Inst'l | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 4.0 |
| FE-Met Ed | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Other Inst'l | Refrigeration | Early | Fixture | 373 | 56% | 0.01 | 8 | \$448 | 47% | 0.2 |
| FE-Met Ed | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Other Inst'l | Refrigeration | New | Fixture | 291 | 44% | 0.00 | 8 | \$139 | 47% | 0.3 |
| FE-Met Ed | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Other Inst'l | Refrigeration | ROB | Fixture | 291 | 44% | 0.00 | 8 | \$139 | 47% | 0.3 |
| FE-Met Ed | Quick acting freezer doors | Std. Freezer Doors | Other Inst'l | Refrigeration | Existing | building | 2,550 | 13% | 0.1 | 10 | \$405 | 56% | 0.5 |
| FE-Met Ed | Quick acting freezer doors | Std. Freezer Doors | Other Inst'l | Refrigeration | New | building | 2,550 | 13% | 0.1 | 10 | \$405 | 56% | 0.5 |
| FE-Met Ed | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Other Inst'l | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 30% | 0.4 |
| FE-Met Ed | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Other Inst'l | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.6 |
| FE-Met Ed | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Other Inst'l | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.6 |
| FE-Met Ed | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 30% | 1.7 |
| FE-Met Ed | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 3.0 |
| FE-Met Ed | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 3.0 |
| FE-Met Ed | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 30% | 1.7 |
| FE-Met Ed | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 4.0 |
| FE-Met Ed | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 4.0 |
| FE-Met Ed | Refrigeration Commissioning | Non-commissioned refrigeration system | Other Inst'l | Refrigeration | Existing | building | 5,099 | 9.5% | 0.10 | 3 | \$1,204 | 85% | 0.1 |
| FE-Met Ed | Refrigeration Commissioning | Non-commissioned refrigeration system | Other Inst'l | Refrigeration | New | building | 5,099 | 9.5% | 0.10 | 3 | \$1,204 | 85% | 0.1 |
| FE-Met Ed | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Other Inst'l | Refrigeration | Existing | building | 2,550 | 59% | 0.6 | 4 | \$80 | 22% | 5.7 |
| FE-Met Ed | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Other Inst'l | Refrigeration | Existing | building | 2,397 | 12% | 0.1 | 4 | \$117 | 22% | 0.8 |
| FE-Met Ed | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Other Inst'l | Refrigeration | New | building | 2,550 | 59% | 0.6 | 4 | \$80 | 22% | 5.7 |
| FE-Met Ed | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Other Inst'l | Refrigeration | New | building | 2,397 | 12% | 0.1 | 4 | \$117 | 22% | 0.8 |
| FE-Met Ed | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Other Inst'l | Refrigeration | Existing | building | 2,550 | 12% | 0.1 | 11 | \$119 | 79% | 1.8 |
| FE-Met Ed | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Other Inst'l | Refrigeration | New | building | 2,550 | 12% | 0.1 | 11 | \$119 | 79% | 1.8 |
| FE-Met Ed | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Other Inst'l | Refrigeration | Existing | building | 2,397 | 8.9% | 0.09 | 11 | \$119 | 79% | 1.3 |
| FE-Met Ed | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Other Inst'l | Refrigeration | New | building | 2,397 | 8.9% | 0.09 | 11 | \$119 | 79% | 1.3 |
| FE-Met Ed | VSD Controlled Compressor | Compressor w/out VSD | Other Inst'l | Refrigeration | Early | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.2 |
| FE-Met Ed | VSD Controlled Compressor | Compressor w/out VSD | Other Inst'l | Refrigeration | New | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.2 |
| FE-Met Ed | VSD Controlled Compressor | Compressor w/out VSD | Other Inst'l | Refrigeration | ROB | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.2 |
| FE-Met Ed | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Other Inst'l | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$269 | 35% | 0.9 |
| FE-Met Ed | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Other Inst'l | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$269 | 35% | 0.9 |
| FE-Met Ed | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Other Inst'l | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.2 |
| FE-Met Ed | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Other Inst'l | Refrigeration | New | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 3.0 |
| FE-Met Ed | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Other Inst'l | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.2 |
| FE-Met Ed | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Other Inst'l | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 3.0 |
| FE-Met Ed | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 35% | 2.4 |
| FE-Met Ed | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 35% | 2.3 |
| FE-Met Ed | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 5.2 |
| FE-Met Ed | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.9 |
| FE-Met Ed | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 5.2 |
| FE-Met Ed | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.9 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Other Inst'l | Space Heating | Existing | building | 4,578 | 7.1% | 0.07 | 6 | \$12,513 | 82% | 0.0 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Other Inst'l | Space Heating | New | building | 4,578 | 7.1% | 0.07 | 6 | \$12,513 | 82% | 0.0 |
| FE-Met Ed | Adding window shade film | No shade film | Other Inst'l | Space Heating | Existing | building | 4,578 | 1.3% | 0.4 | 10 | \$56 | 13% | 5.1 |
| FE-Met Ed | Adding window shade film | No shade film | Other Inst'l | Space Heating | New | building | 4,578 | 1.3% | 0.4 | 10 | \$56 | 13% | 5.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|--|---|--------------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Adding window shade screen | No shade screen | Other Inst'l | Space Heating | Existing | building | 4,578 | 1.1% | 0.01 | 10 | \$22 | 13% | 1.2 |
| FE-Met Ed | Adding window shade screen | No shade screen | Other Inst'l | Space Heating | New | building | 4,578 | 1.1% | 0.01 | 10 | \$22 | 13% | 1.2 |
| FE-Met Ed | Automated control system | Manual Controls | Other Inst'l | Space Heating | Existing | building | 4,578 | 17% | 0.2 | 15 | \$5,012 | 51% | 0.1 |
| FE-Met Ed | Automated control system | Manual Controls | Other Inst'l | Space Heating | New | building | 4,578 | 17% | 0.2 | 15 | \$5,012 | 94% | 0.1 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Other Inst'l | Space Heating | Existing | building | 4,578 | 7.2% | 0.07 | 15 | \$17,130 | 71% | 0.0 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Other Inst'l | Space Heating | New | building | 4,578 | 2.4% | 0.02 | 15 | \$16,283 | 94% | 0.0 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Other Inst'l | Space Heating | Existing | building | 4,578 | 1.4% | 0.04 | 15 | \$36 | 20% | 2.0 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Other Inst'l | Space Heating | New | building | 4,578 | 1.4% | 0.04 | 15 | \$36 | 10% | 2.0 |
| FE-Met Ed | Efficient Unit Heating System | Existing Unit Heaters in PA | Other Inst'l | Space Heating | Early | heater | 30,613 | 23% | 0.05 | 15 | \$3,289 | 83% | 1.1 |
| FE-Met Ed | Efficient Unit Heating System | Std. Unit Heater | Other Inst'l | Space Heating | New | heater | 27,169 | 13% | 0.03 | 15 | \$1,991 | 83% | 0.9 |
| FE-Met Ed | Efficient Unit Heating System | Std. Unit Heater | Other Inst'l | Space Heating | ROB | heater | 27,169 | 13% | 0.03 | 15 | \$1,991 | 83% | 0.9 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Other Inst'l | Space Heating | Existing | building | 4,578 | 7.1% | 0.07 | 15 | \$20,308 | 25% | 0.0 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Other Inst'l | Space Heating | New | building | 4,578 | 7.1% | 0.07 | 15 | \$20,308 | 35% | 0.0 |
| FE-Met Ed | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Other Inst'l | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 1.0 |
| FE-Met Ed | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Other Inst'l | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 1.0 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Other Inst'l | Space Heating | Existing | building | 4,578 | 1.1% | 0.01 | 10 | \$7,735 | 81% | 0.0 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Other Inst'l | Space Heating | New | building | 4,578 | 1.1% | 0.01 | 10 | \$7,735 | 81% | 0.0 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Other Inst'l | Space Heating | Existing | building | 4,578 | 3.6% | 0.04 | 11 | \$286 | 49% | 0.3 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Other Inst'l | Space Heating | New | building | 4,578 | 3.1% | 0.03 | 11 | \$146 | 49% | 0.6 |
| FE-Met Ed | Re-Commissioning (Existing Construction) | No Re-Commissioning | Other Inst'l | Space Heating | Existing | building | 4,578 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |
| FE-Met Ed | VFD on Cooling Tower Fan | Motor w/out VFD | Other Inst'l | Space Heating | Early | motor | 18,724 | 70% | 3.4 | 15 | \$2,843 | 88% | 3.6 |
| FE-Met Ed | VFD on Cooling Tower Fan | Motor w/out VFD | Other Inst'l | Space Heating | New | motor | 18,373 | 72% | 3.3 | 15 | \$2,843 | 88% | 3.6 |
| FE-Met Ed | VFD on Cooling Tower Fan | Motor w/out VFD | Other Inst'l | Space Heating | ROB | motor | 18,373 | 72% | 3.3 | 15 | \$2,843 | 88% | 3.6 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Other Inst'l | Space Heating | Existing | building | 4,578 | 13% | 0.1 | 15 | \$3,285 | 26% | 0.1 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Other Inst'l | Space Heating | New | building | 4,578 | 0.3% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| FE-Met Ed | Green LED Traffic Light | Green Incandescent Traffic Light | Other Inst'l | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 0% | 1.3 |
| FE-Met Ed | Green LED Traffic Light | Green Incandescent Traffic Light | Other Inst'l | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.2 |
| FE-Met Ed | Green LED Traffic Light | Green Incandescent Traffic Light | Other Inst'l | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.2 |
| FE-Met Ed | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Other Inst'l | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 0% | 3.1 |
| FE-Met Ed | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Other Inst'l | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-Met Ed | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Other Inst'l | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-Met Ed | Induction Street Lighting | One 100W HPS Street Light Fixture | Other Inst'l | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 0% | 0.3 |
| FE-Met Ed | Induction Street Lighting | One 100W HPS Street Light Fixture | Other Inst'l | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.8 |
| FE-Met Ed | Induction Street Lighting | One 100W HPS Street Light Fixture | Other Inst'l | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.8 |
| FE-Met Ed | LED Street Lighting | One 100W HPS Street Light | Other Inst'l | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 0% | 0.2 |
| FE-Met Ed | LED Street Lighting | One 100W HPS Street Light | Other Inst'l | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-Met Ed | LED Street Lighting | One 100W HPS Street Light | Other Inst'l | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-Met Ed | Red LED Traffic Light | One Red Incandescent Traffic Light | Other Inst'l | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 0% | 1.7 |
| FE-Met Ed | Red LED Traffic Light | One Red Incandescent Traffic Light | Other Inst'l | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| FE-Met Ed | Red LED Traffic Light | One Red Incandescent Traffic Light | Other Inst'l | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| FE-Met Ed | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Other Inst'l | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 0% | 0.1 |
| FE-Met Ed | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Other Inst'l | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-Met Ed | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Other Inst'l | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-Met Ed | Demand controlled Circulating Systems | Constant circulation system | Other Inst'l | Water Heating | Existing | building | 4,271 | 20% | 0.2 | 15 | \$775 | 59% | 0.9 |
| FE-Met Ed | Demand controlled Circulating Systems | Constant circulation system | Other Inst'l | Water Heating | New | building | 4,271 | 20% | 0.2 | 15 | \$775 | 59% | 0.9 |
| FE-Met Ed | Drainwater Heat Recovery Water Heater | No heat recovery | Other Inst'l | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 2.0 |
| FE-Met Ed | Drainwater Heat Recovery Water Heater | No heat recovery | Other Inst'l | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 2.0 |
| FE-Met Ed | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Other Inst'l | Water Heating | Existing | building | 4,271 | 5.9% | 0.06 | 12 | \$42 | 85% | 3.9 |
| FE-Met Ed | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Other Inst'l | Water Heating | New | building | 4,271 | 5.9% | 0.06 | 12 | \$12 | 85% | 13.6 |
| FE-Met Ed | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Other Inst'l | Water Heating | Early | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 3.1 |
| FE-Met Ed | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Other Inst'l | Water Heating | Early | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 3.1 |
| FE-Met Ed | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Other Inst'l | Water Heating | New | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 3.1 |
| FE-Met Ed | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Other Inst'l | Water Heating | New | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 3.1 |
| FE-Met Ed | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Other Inst'l | Water Heating | ROB | water heater | 10,350 | 65% | 1.2 | 10 | \$1,187 | 68% | 2.9 |
| FE-Met Ed | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Other Inst'l | Water Heating | ROB | water heater | 10,350 | 65% | 1.2 | 10 | \$1,187 | 68% | 2.9 |
| FE-Met Ed | Heat Recovery Unit | Base Water Heating | Other Inst'l | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.7 |
| FE-Met Ed | Heat Recovery Unit | Base Water Heating | Other Inst'l | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.7 |
| FE-Met Ed | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Other Inst'l | Water Heating | Early | water heater | 10,645 | 5.9% | 0.1 | 15 | \$307 | 79% | 1.5 |
| FE-Met Ed | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Other Inst'l | Water Heating | Early | water heater | 10,645 | 5.9% | 0.1 | 15 | \$307 | 79% | 1.5 |
| FE-Met Ed | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Other Inst'l | Water Heating | New | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.8 |
| FE-Met Ed | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Other Inst'l | Water Heating | New | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.8 |
| FE-Met Ed | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Other Inst'l | Water Heating | ROB | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.8 |
| FE-Met Ed | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Other Inst'l | Water Heating | ROB | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.8 |
| FE-Met Ed | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Other Inst'l | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$466 | 81% | 41.1 |
| FE-Met Ed | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Other Inst'l | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 21.4 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|--|---|--------------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Other Inst'l | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 21.4 |
| FE-Met Ed | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Other Inst'l | Water Heating | Existing | building | 4,271 | 0.8% | 0.01 | 13 | \$4.9 | 68% | 4.9 |
| FE-Met Ed | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Other Inst'l | Water Heating | New | building | 4,271 | 0.8% | 0.01 | 13 | \$4.9 | 0% | 4.9 |
| FE-Met Ed | Hot Water Circulation Pump Time-Clock | Constant circulation system | Other Inst'l | Water Heating | Existing | building | 4,271 | 5.3% | 0.05 | 10 | \$17 | 72% | 7.4 |
| FE-Met Ed | Hot Water Circulation Pump Time-Clock | Constant circulation system | Other Inst'l | Water Heating | New | building | 4,271 | 5.3% | 0.05 | 10 | \$17 | 72% | 7.4 |
| FE-Met Ed | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Other Inst'l | Water Heating | Existing | building | 4,271 | 0.9% | 0.01 | 7 | \$22 | 78% | 0.8 |
| FE-Met Ed | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Other Inst'l | Water Heating | New | building | 4,271 | 0.8% | 0.01 | 7 | \$0.5 | 78% | 28.7 |
| FE-Met Ed | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Other Inst'l | Water Heating | Existing | building | 4,271 | 4.5% | 0.05 | 5 | \$300 | 0% | 0.2 |
| FE-Met Ed | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Other Inst'l | Water Heating | New | building | 4,271 | 3.0% | 0.03 | 5 | \$194 | 0% | 0.2 |
| FE-Met Ed | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Other Inst'l | Water Heating | Existing | building | 4,271 | 6.5% | 0.07 | 9 | \$25 | 2% | 5.7 |
| FE-Met Ed | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Other Inst'l | Water Heating | New | building | 4,271 | 6.5% | 0.07 | 9 | \$6.0 | 2% | 23.9 |
| FE-Met Ed | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Other Inst'l | Water Heating | Early | water heater | 10,645 | 52% | 0.4 | 15 | \$6,222 | 32% | 0.6 |
| FE-Met Ed | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Other Inst'l | Water Heating | New | water heater | 10,350 | 51% | 0.4 | 15 | \$6,222 | 32% | 0.5 |
| FE-Met Ed | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Other Inst'l | Water Heating | ROB | water heater | 10,350 | 51% | 0.4 | 15 | \$6,222 | 32% | 0.5 |
| FE-Met Ed | Ultrasonic Faucet Control | Manual Faucet Control | Other Inst'l | Water Heating | Existing | building | 4,271 | 3.0% | 0.03 | 10 | \$739 | 77% | 0.1 |
| FE-Met Ed | Ultrasonic Faucet Control | Manual Faucet Control | Other Inst'l | Water Heating | New | building | 4,271 | 3.0% | 0.03 | 10 | \$739 | 77% | 0.1 |
| FE-Met Ed | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Other Inst'l | Water Heating | Existing | building | 4,271 | 2.2% | 0.02 | 4 | \$28 | 83% | 0.9 |
| FE-Met Ed | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Other Inst'l | Water Heating | New | building | 4,271 | 2.3% | 0.02 | 4 | \$28 | 83% | 0.9 |
| FE-Met Ed | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Restaurant | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 57% | 1.2 |
| FE-Met Ed | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Restaurant | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 57% | 1.2 |
| FE-Met Ed | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Restaurant | Cooking | Early | steamer | 51 | 46% | 0.00 | 12 | \$5,053 | 81% | 0.0 |
| FE-Met Ed | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Restaurant | Cooking | New | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-Met Ed | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Restaurant | Cooking | ROB | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-Met Ed | Electric combination oven (Energy Star) | Standard Oven | Restaurant | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 73% | 3.1 |
| FE-Met Ed | Electric combination oven (Energy Star) | Standard Oven | Restaurant | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 73% | 3.1 |
| FE-Met Ed | Electric Convection Oven | Conventional convection oven w/ 65% efficiency | Restaurant | Cooking | Early | oven | 8,641 | 37% | 0.6 | 12 | \$4,119 | 81% | 0.5 |
| FE-Met Ed | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Restaurant | Cooking | New | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.8 |
| FE-Met Ed | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Restaurant | Cooking | ROB | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.8 |
| FE-Met Ed | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Restaurant | Cooking | Early | fryer | 6,105 | 23% | 0.3 | 12 | \$9,241 | 86% | 0.1 |
| FE-Met Ed | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Restaurant | Cooking | New | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.4 |
| FE-Met Ed | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Restaurant | Cooking | ROB | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.4 |
| FE-Met Ed | High Efficiency Griddle (ENERGY STAR) | Efficiency code minimum griddle (70% eff) | Restaurant | Cooking | Early | griddle | 11,317 | 65% | 1.4 | 12 | \$4,977 | 86% | 0.9 |
| FE-Met Ed | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Restaurant | Cooking | New | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.3 |
| FE-Met Ed | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Restaurant | Cooking | ROB | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.3 |
| FE-Met Ed | High Efficiency Induction Cooking | Standard Cooking | Restaurant | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 76% | 0.1 |
| FE-Met Ed | High Efficiency Induction Cooking | Standard Cooking | Restaurant | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 76% | 0.1 |
| FE-Met Ed | Solid-state temperature controls | No Solid State Controls | Restaurant | Cooking | Existing | building | 36,013 | 3.6% | 0.04 | 12 | \$161 | 32% | 3.7 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Restaurant | Cooling Central | Existing | building | 2,769 | 7.0% | 0.07 | 6 | \$19,559 | 82% | 0.0 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Restaurant | Cooling Central | New | building | 2,769 | 7.0% | 0.07 | 6 | \$19,559 | 82% | 0.0 |
| FE-Met Ed | Adding window shade film | No shade film | Restaurant | Cooling Central | Existing | building | 2,769 | 1.3% | 0.4 | 10 | \$34 | 12% | 8.3 |
| FE-Met Ed | Adding window shade film | No shade film | Restaurant | Cooling Central | New | building | 2,769 | 1.3% | 0.4 | 10 | \$34 | 13% | 8.3 |
| FE-Met Ed | Adding window shade screen | No shade screen | Restaurant | Cooling Central | Existing | building | 2,769 | 1.0% | 0.01 | 10 | \$13 | 13% | 1.4 |
| FE-Met Ed | Adding window shade screen | No shade screen | Restaurant | Cooling Central | New | building | 2,769 | 1.1% | 0.01 | 10 | \$13 | 13% | 1.4 |
| FE-Met Ed | Automated control system | Manual Controls | Restaurant | Cooling Central | Existing | building | 2,769 | 17% | 0.2 | 15 | \$3,031 | 51% | 0.1 |
| FE-Met Ed | Automated control system | Manual Controls | Restaurant | Cooling Central | New | building | 2,769 | 17% | 0.2 | 15 | \$3,031 | 94% | 0.1 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Restaurant | Cooling Central | Existing | building | 2,769 | 8.9% | 0.09 | 15 | \$26,661 | 71% | 0.0 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Restaurant | Cooling Central | New | building | 2,769 | 3.0% | 0.03 | 15 | \$25,342 | 94% | 0.0 |
| FE-Met Ed | Chiller Tuneup/Diagnostics | No tuneup | Restaurant | Cooling Central | Existing | building | 2,769 | 8.0% | 0.08 | 10 | \$7,070 | 59% | 0.0 |
| FE-Met Ed | Chiller Tuneup/Diagnostics | No tuneup | Restaurant | Cooling Central | New | building | 2,769 | 8.0% | 0.08 | 10 | \$7,070 | 59% | 0.0 |
| FE-Met Ed | Commercial energy recovery ventilation systems | No Commercial Recovery System | Restaurant | Cooling Central | Existing | building | 2,769 | 16% | 0.2 | 14 | \$2,502 | 71% | 0.2 |
| FE-Met Ed | Cooling Tower Optimization | No Cooling Tower Optimization | Restaurant | Cooling Central | Existing | building | 2,769 | 20% | 0.2 | 10 | \$17 | 69% | 20.9 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Restaurant | Cooling Central | Existing | building | 2,769 | 1.4% | 0.04 | 15 | \$22 | 20% | 2.7 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Restaurant | Cooling Central | New | building | 2,769 | 1.4% | 0.04 | 15 | \$22 | 10% | 2.7 |
| FE-Met Ed | Facility Commissioning | No Facility Commissioning | Restaurant | Cooling Central | New | building | 2,769 | 16% | 0.2 | 10 | \$7,894 | 89% | 0.0 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Restaurant | Cooling Central | Existing | building | 2,769 | 7.0% | 0.07 | 15 | \$12,282 | 25% | 0.0 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Restaurant | Cooling Central | New | building | 2,769 | 7.0% | 0.07 | 15 | \$12,282 | 35% | 0.0 |
| FE-Met Ed | Hi Eff HVAC System Design | No HVAC Design | Restaurant | Cooling Central | New | building | 2,769 | 12% | 0.1 | 10 | \$111,554 | 51% | 0.0 |
| FE-Met Ed | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | Early | ton | 5,094 | 24% | 0.4 | 15 | \$108,550 | 88% | 0.0 |
| FE-Met Ed | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | New | ton | 4,164 | 6.7% | 0.10 | 15 | \$12,927 | 88% | 0.0 |
| FE-Met Ed | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | ROB | ton | 4,164 | 6.7% | 0.10 | 15 | \$12,927 | 88% | 0.0 |
| FE-Met Ed | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | Early | ton | 7,611 | 23% | 0.6 | 15 | \$140,105 | 88% | 0.0 |
| FE-Met Ed | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | New | ton | 6,124 | 4.9% | 0.1 | 15 | \$9,336 | 88% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|--|--|------------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | ROB | ton | 6,124 | 4.9% | 0.1 | 15 | \$9,336 | 88% | 0.0 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | Early | ton | 62,308 | 26% | 5.6 | 15 | \$105,354 | 88% | 0.1 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | New | ton | 54,288 | 15% | 2.8 | 15 | \$30,530 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | ROB | ton | 54,288 | 15% | 2.8 | 15 | \$30,530 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | Early | ton | 93,320 | 23% | 7.4 | 15 | \$154,107 | 88% | 0.1 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | New | ton | 85,726 | 16% | 4.8 | 15 | \$27,646 | 88% | 0.4 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | ROB | ton | 93,320 | 23% | 7.4 | 15 | \$27,646 | 88% | 0.7 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | Early | ton | 154,988 | 23% | 12.2 | 15 | \$302,924 | 88% | 0.1 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | New | ton | 140,275 | 14% | 7.0 | 15 | \$115,432 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | ROB | ton | 154,988 | 23% | 12.2 | 15 | \$115,432 | 88% | 0.3 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | Early | ton | 185,985 | 23% | 14.6 | 15 | \$350,154 | 88% | 0.1 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | New | ton | 168,330 | 14% | 8.5 | 15 | \$120,406 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | ROB | ton | 185,985 | 23% | 14.6 | 15 | \$120,406 | 88% | 0.3 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | Early | ton | 41,225 | 29% | 4.2 | 15 | \$83,632 | 88% | 0.1 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | New | ton | 32,011 | 8.9% | 1.0 | 15 | \$40,211 | 88% | 0.1 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | ROB | ton | 41,225 | 29% | 4.2 | 15 | \$40,211 | 88% | 0.3 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | Early | ton | 70,835 | 35% | 8.6 | 15 | \$132,173 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | New | ton | 52,831 | 13% | 2.3 | 15 | \$39,556 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | ROB | ton | 52,831 | 13% | 2.3 | 15 | \$39,556 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | Early | ton | 118,265 | 39% | 16.1 | 15 | \$187,029 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | New | ton | 84,321 | 15% | 4.3 | 15 | \$33,554 | 88% | 0.3 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | ROB | ton | 118,265 | 39% | 16.1 | 15 | \$33,554 | 88% | 1.2 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | Early | ton | 20,695 | 30% | 2.1 | 15 | \$32,398 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | New | ton | 16,396 | 11% | 0.6 | 15 | \$7,188 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | ROB | ton | 20,695 | 30% | 2.1 | 15 | \$7,188 | 88% | 0.8 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Restaurant | Cooling Central | Existing | building | 2,769 | 3.5% | 0.04 | 10 | \$2,513 | 81% | 0.0 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Restaurant | Cooling Central | New | building | 2,769 | 3.5% | 0.04 | 10 | \$2,513 | 81% | 0.0 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Restaurant | Cooling Central | Existing | building | 2,769 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.1 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Restaurant | Cooling Central | New | building | 2,769 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.2 |
| FE-Met Ed | Re-Commissioning (Existing Construction) | No Re-Commissioning | Restaurant | Cooling Central | Existing | building | 2,769 | 16% | 0.2 | 5 | \$12,732 | 86% | 0.0 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Restaurant | Cooling Central | Existing | building | 2,769 | 12% | 0.1 | 15 | \$6,404 | 26% | 0.0 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Restaurant | Cooling Central | New | building | 2,769 | 0.5% | 0.01 | 15 | \$4,912 | 94% | 0.0 |
| FE-Met Ed | <65k BTU/hr 14 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Restaurant | Cooling Unitary | Early | ton | 1,802 | 16% | 0.2 | 15 | \$1,545 | 29% | 0.2 |
| FE-Met Ed | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Restaurant | Cooling Unitary | New | ton | 1,632 | 7.1% | 0.08 | 15 | \$339 | 29% | 0.4 |
| FE-Met Ed | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Restaurant | Cooling Unitary | ROB | ton | 1,632 | 7.1% | 0.08 | 15 | \$339 | 29% | 0.4 |
| FE-Met Ed | <65k BTU/hr 15 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Restaurant | Cooling Unitary | Early | ton | 1,802 | 22% | 0.3 | 15 | \$1,821 | 30% | 0.3 |
| FE-Met Ed | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Restaurant | Cooling Unitary | New | ton | 1,632 | 13% | 0.2 | 15 | \$714 | 30% | 0.4 |
| FE-Met Ed | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Restaurant | Cooling Unitary | ROB | ton | 1,632 | 13% | 0.2 | 15 | \$714 | 30% | 0.4 |
| FE-Met Ed | <65k BTU/hr 16 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Restaurant | Cooling Unitary | Early | ton | 1,802 | 26% | 0.3 | 15 | \$2,098 | 31% | 0.3 |
| FE-Met Ed | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Restaurant | Cooling Unitary | New | ton | 1,632 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.3 |
| FE-Met Ed | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Restaurant | Cooling Unitary | ROB | ton | 1,632 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.3 |
| FE-Met Ed | >760k min 10.2 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Restaurant | Cooling Unitary | Early | ton | 45,603 | 3.7% | 1.2 | 15 | \$68,066 | 56% | 0.0 |
| FE-Met Ed | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Restaurant | Cooling Unitary | New | ton | 46,188 | 4.9% | 1.6 | 15 | \$6,231 | 56% | 0.5 |
| FE-Met Ed | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Restaurant | Cooling Unitary | ROB | ton | 46,188 | 4.9% | 1.6 | 15 | \$6,231 | 56% | 0.5 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|--|------------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | 135-240k min 12 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Restaurant | Cooling Unitary | Early | ton | 11,221 | 18% | 1.4 | 15 | \$18,135 | 79% | 0.1 |
| FE-Met Ed | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Restaurant | Cooling Unitary | New | ton | 10,207 | 10.0% | 0.7 | 15 | \$1,948 | 79% | 0.7 |
| FE-Met Ed | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Restaurant | Cooling Unitary | ROB | ton | 10,207 | 10.0% | 0.7 | 15 | \$1,948 | 79% | 0.7 |
| FE-Met Ed | 240k-760k min 11 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Restaurant | Cooling Unitary | Early | ton | 30,002 | 9.0% | 1.9 | 15 | \$44,809 | 66% | 0.1 |
| FE-Met Ed | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Restaurant | Cooling Unitary | New | ton | 30,077 | 9.3% | 2.0 | 15 | \$4,796 | 66% | 0.7 |
| FE-Met Ed | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Restaurant | Cooling Unitary | ROB | ton | 30,077 | 9.3% | 2.0 | 15 | \$4,796 | 66% | 0.7 |
| FE-Met Ed | 65k-135k BTU/hr 12 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Restaurant | Cooling Unitary | Early | ton | 6,614 | 17% | 0.8 | 15 | \$10,946 | 86% | 0.1 |
| FE-Met Ed | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Restaurant | Cooling Unitary | New | ton | 5,895 | 6.7% | 0.3 | 15 | \$1,392 | 86% | 0.4 |
| FE-Met Ed | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Restaurant | Cooling Unitary | ROB | ton | 5,895 | 6.7% | 0.3 | 15 | \$1,392 | 86% | 0.4 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Restaurant | Cooling Unitary | Existing | building | 25,688 | 7.0% | 0.07 | 6 | \$19,559 | 82% | 0.0 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Restaurant | Cooling Unitary | New | building | 25,688 | 7.1% | 0.07 | 6 | \$19,559 | 82% | 0.0 |
| FE-Met Ed | Adding window shade film | No shade film | Restaurant | Cooling Unitary | Existing | building | 25,688 | 1.3% | 0.4 | 10 | \$313 | 12% | 1.3 |
| FE-Met Ed | Adding window shade film | No shade film | Restaurant | Cooling Unitary | New | building | 25,688 | 1.3% | 0.4 | 10 | \$313 | 13% | 1.3 |
| FE-Met Ed | Adding window shade screen | No shade screen | Restaurant | Cooling Unitary | Existing | building | 25,688 | 1.1% | 0.01 | 10 | \$121 | 12% | 1.0 |
| FE-Met Ed | Adding window shade screen | No shade screen | Restaurant | Cooling Unitary | New | building | 25,688 | 1.1% | 0.01 | 10 | \$121 | 13% | 1.0 |
| FE-Met Ed | Automated control system | Manual Controls | Restaurant | Cooling Unitary | Existing | building | 25,688 | 17% | 0.2 | 15 | \$28,123 | 51% | 0.1 |
| FE-Met Ed | Automated control system | Manual Controls | Restaurant | Cooling Unitary | New | building | 25,688 | 17% | 0.2 | 15 | \$28,123 | 94% | 0.1 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Restaurant | Cooling Unitary | Existing | building | 25,688 | 8.9% | 0.09 | 15 | \$26,661 | 71% | 0.1 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Restaurant | Cooling Unitary | New | building | 25,688 | 3.0% | 0.03 | 15 | \$25,342 | 94% | 0.0 |
| FE-Met Ed | Commercial energy recovery ventilation systems | No Commercial Recovery System | Restaurant | Cooling Unitary | Existing | building | 25,688 | 16% | 0.2 | 14 | \$23,213 | 71% | 0.1 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Restaurant | Cooling Unitary | Existing | building | 25,688 | 1.4% | 0.04 | 15 | \$204 | 20% | 1.2 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Restaurant | Cooling Unitary | New | building | 25,688 | 1.4% | 0.04 | 15 | \$204 | 10% | 1.2 |
| FE-Met Ed | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Restaurant | Cooling Unitary | Existing | building | 14,129 | 13% | 0.1 | 1 | \$135 | 73% | 0.8 |
| FE-Met Ed | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Restaurant | Cooling Unitary | New | building | 14,129 | 13% | 0.1 | 1 | \$135 | 73% | 0.8 |
| FE-Met Ed | ECM Motors for split systems | Std Shaded Pole Motor | Restaurant | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 3.0 |
| FE-Met Ed | ECM Motors for split systems | Std Shaded Pole Motor | Restaurant | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 3.0 |
| FE-Met Ed | Facility Commissioning | No Facility Commissioning | Restaurant | Cooling Unitary | New | building | 25,688 | 16% | 0.2 | 10 | \$417 | 89% | 4.2 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Restaurant | Cooling Unitary | Existing | building | 25,688 | 7.1% | 0.07 | 15 | \$113,947 | 25% | 0.0 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Restaurant | Cooling Unitary | New | building | 25,688 | 7.0% | 0.07 | 15 | \$113,947 | 35% | 0.0 |
| FE-Met Ed | Hi Eff HVAC System Design | No HVAC Design | Restaurant | Cooling Unitary | New | building | 25,688 | 12% | 0.1 | 10 | \$1,492 | 51% | 0.9 |
| FE-Met Ed | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Restaurant | Cooling Unitary | Existing | building | 25,688 | 5.0% | 0.05 | 5 | \$225 | 59% | 1.4 |
| FE-Met Ed | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Restaurant | Cooling Unitary | Existing | building | 25,688 | 0.5% | 0.05 | 5 | \$225 | 51% | 0.2 |
| FE-Met Ed | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Restaurant | Cooling Unitary | New | building | 25,688 | 0.5% | 0.05 | 5 | \$135 | 51% | 0.3 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Restaurant | Cooling Unitary | Existing | building | 25,688 | 3.5% | 0.04 | 10 | \$2,701 | 86% | 0.1 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Restaurant | Cooling Unitary | New | building | 25,688 | 3.5% | 0.04 | 10 | \$2,701 | 86% | 0.1 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) | Restaurant | Cooling Unitary | Existing | building | 25,688 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.8 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Restaurant | Cooling Unitary | New | building | 25,688 | 1.7% | 0.02 | 11 | \$146 | 49% | 1.4 |
| FE-Met Ed | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Restaurant | Cooling Unitary | Early | unit | 760 | 19% | 0.08 | 15 | \$849 | 85% | 0.2 |
| FE-Met Ed | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Restaurant | Cooling Unitary | New | unit | 768 | 20% | 0.09 | 15 | \$356 | 85% | 0.5 |
| FE-Met Ed | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Restaurant | Cooling Unitary | ROB | unit | 768 | 20% | 0.09 | 15 | \$356 | 85% | 0.5 |
| FE-Met Ed | Re-Commissioning (Existing Construction) | No Re-Commissioning | Restaurant | Cooling Unitary | Existing | building | 25,688 | 16% | 0.2 | 5 | \$12,732 | 86% | 0.1 |
| FE-Met Ed | Room AC (w/ louvered sides) | Existing efficiency Room AC in Pennsylvania (2000 Federal Standards) | Restaurant | Cooling Unitary | Early | ton | 794 | 13% | 0.04 | 9 | \$348 | 82% | 0.2 |
| FE-Met Ed | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Restaurant | Cooling Unitary | New | ton | 720 | 4.5% | 0.01 | 9 | \$17 | 82% | 1.1 |
| FE-Met Ed | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Restaurant | Cooling Unitary | ROB | ton | 720 | 4.5% | 0.01 | 9 | \$17 | 82% | 1.1 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Restaurant | Cooling Unitary | Existing | building | 25,688 | 12% | 0.1 | 15 | \$6,404 | 26% | 0.3 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Restaurant | Cooling Unitary | New | building | 25,688 | 0.5% | 0.01 | 15 | \$4,912 | 94% | 0.0 |
| FE-Met Ed | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Restaurant | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 1.2 |
| FE-Met Ed | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Restaurant | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.6 |
| FE-Met Ed | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Restaurant | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.6 |
| FE-Met Ed | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Restaurant | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 0% | 0.2 |
| FE-Met Ed | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Restaurant | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-Met Ed | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Restaurant | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-Met Ed | LED exterior lighting | 250 Watt Incandescent | Restaurant | Ext. Lighting | ROB | measure | 515 | 83% | 0.1 | 15 | \$104 | 89% | 3.2 |
| FE-Met Ed | LED exterior lighting | 250 Watt Incandescent | Restaurant | Ext. Lighting | ROB | measure | 515 | 83% | 0.1 | 15 | \$104 | 89% | 3.2 |
| FE-Met Ed | LED exterior lighting | 250 Watt Incandescent | Restaurant | Ext. Lighting | ROB | measure | 515 | 83% | 0.1 | 15 | \$104 | 89% | 3.2 |
| FE-Met Ed | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Restaurant | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 75% | 0.3 |
| FE-Met Ed | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Restaurant | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 75% | 0.2 |
| FE-Met Ed | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Restaurant | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.9 |
| FE-Met Ed | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Restaurant | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.2 |
| FE-Met Ed | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Restaurant | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.9 |
| FE-Met Ed | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Restaurant | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.2 |
| FE-Met Ed | Photocell Controls (Outdoor) | Lighting w/ No Controls | Restaurant | Ext. Lighting | Existing | building | 80 | 28% | 0.3 | 8 | \$891 | 88% | 0.2 |
| FE-Met Ed | Photocell Controls (Outdoor) | Lighting w/ No Controls | Restaurant | Ext. Lighting | New | building | 80 | 28% | 0.3 | 8 | \$891 | 0% | 0.2 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Restaurant | Heat Pump | Existing | building | 1,980 | 6.9% | 0.07 | 6 | \$19,559 | 82% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|--|---|------------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Restaurant | Heat Pump | New | building | 1,980 | 6.9% | 0.07 | 6 | \$19,559 | 82% | 0.0 |
| FE-Met Ed | Adding window shade film | No shade film | Restaurant | Heat Pump | Existing | building | 1,980 | 3.9% | 0.4 | 10 | \$24 | 12% | 12.2 |
| FE-Met Ed | Adding window shade film | No shade film | Restaurant | Heat Pump | New | building | 1,980 | 3.9% | 0.4 | 10 | \$24 | 12% | 12.2 |
| FE-Met Ed | Adding window shade screen | No shade screen | Restaurant | Heat Pump | Existing | building | 1,980 | 0.3% | 0.01 | 10 | \$3.1 | 12% | 3.1 |
| FE-Met Ed | Adding window shade screen | No shade screen | Restaurant | Heat Pump | New | building | 1,980 | 0.3% | 0.01 | 10 | \$3.1 | 12% | 3.1 |
| FE-Met Ed | Automated control system | Manual Controls | Restaurant | Heat Pump | Existing | building | 1,980 | 17% | 0.2 | 15 | \$2,168 | 51% | 0.2 |
| FE-Met Ed | Automated control system | Manual Controls | Restaurant | Heat Pump | New | building | 1,980 | 17% | 0.2 | 15 | \$2,168 | 94% | 0.2 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Restaurant | Heat Pump | Existing | building | 1,980 | 8.9% | 0.09 | 15 | \$26,661 | 71% | 0.0 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Restaurant | Heat Pump | New | building | 1,980 | 3.0% | 0.03 | 15 | \$25,342 | 94% | 0.0 |
| FE-Met Ed | Commercial energy recovery ventilation systems | No Commercial Recovery System | Restaurant | Heat Pump | Existing | building | 1,980 | 16% | 0.2 | 14 | \$1,050,604 | 71% | 0.0 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Restaurant | Heat Pump | Existing | building | 1,980 | 4.0% | 0.04 | 15 | \$16 | 12% | 5.1 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Restaurant | Heat Pump | New | building | 1,980 | 4.0% | 0.04 | 15 | \$16 | 6% | 5.1 |
| FE-Met Ed | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Restaurant | Heat Pump | Early | heat pump | 2,095 | 11% | 0.02 | 15 | \$4,070 | 83% | 0.0 |
| FE-Met Ed | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Restaurant | Heat Pump | New | heat pump | 2,020 | 8.0% | 0.01 | 15 | \$1,097 | 83% | 0.1 |
| FE-Met Ed | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Restaurant | Heat Pump | ROB | heat pump | 2,020 | 8.0% | 0.01 | 15 | \$1,097 | 83% | 0.1 |
| FE-Met Ed | Facility Commissioning | No Facility Commissioning | Restaurant | Heat Pump | New | building | 1,980 | 16% | 0.2 | 10 | \$7,894 | 89% | 0.0 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Restaurant | Heat Pump | Existing | building | 1,980 | 7.0% | 0.07 | 15 | \$8,782 | 25% | 0.0 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Restaurant | Heat Pump | New | building | 1,980 | 7.0% | 0.07 | 15 | \$8,782 | 35% | 0.0 |
| FE-Met Ed | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Restaurant | Heat Pump | Early | heat pump | 21,173 | 14% | 0.2 | 15 | \$91,117 | 19% | 0.0 |
| FE-Met Ed | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Restaurant | Heat Pump | New | heat pump | 20,599 | 11% | 0.2 | 15 | \$33,927 | 19% | 0.0 |
| FE-Met Ed | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Restaurant | Heat Pump | ROB | heat pump | 20,599 | 11% | 0.2 | 15 | \$33,927 | 19% | 0.0 |
| FE-Met Ed | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Restaurant | Heat Pump | Early | heat pump | 21,173 | 14% | 0.2 | 15 | \$58,356 | 19% | 0.0 |
| FE-Met Ed | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Restaurant | Heat Pump | New | heat pump | 20,599 | 11% | 0.2 | 15 | \$1,167 | 19% | 1.2 |
| FE-Met Ed | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Restaurant | Heat Pump | ROB | heat pump | 20,599 | 11% | 0.2 | 15 | \$1,167 | 19% | 1.2 |
| FE-Met Ed | Hi Eff HVAC System Design | No HVAC Design | Restaurant | Heat Pump | New | building | 1,980 | 12% | 0.1 | 10 | \$111,554 | 51% | 0.0 |
| FE-Met Ed | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Restaurant | Heat Pump | Early | heat pump | 5,586 | 15% | 0.07 | 12 | \$4,298 | 81% | 0.1 |
| FE-Met Ed | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Restaurant | Heat Pump | New | heat pump | 5,387 | 12% | 0.06 | 12 | \$852 | 81% | 0.4 |
| FE-Met Ed | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Restaurant | Heat Pump | ROB | heat pump | 5,387 | 12% | 0.06 | 12 | \$852 | 81% | 0.4 |
| FE-Met Ed | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Restaurant | Heat Pump | Existing | building | 1,980 | 5.0% | 0.01 | 5 | \$90 | 51% | 0.3 |
| FE-Met Ed | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Restaurant | Heat Pump | New | building | 1,980 | 5.0% | 0.01 | 5 | \$90 | 51% | 0.3 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Restaurant | Heat Pump | Existing | building | 1,980 | 3.5% | 0.04 | 10 | \$2,405 | 81% | 0.0 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Restaurant | Heat Pump | New | building | 1,980 | 3.5% | 0.04 | 10 | \$2,405 | 81% | 0.0 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Restaurant | Heat Pump | Existing | building | 1,980 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.1 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Restaurant | Heat Pump | New | building | 1,980 | 2.1% | 0.02 | 11 | \$146 | 49% | 0.2 |
| FE-Met Ed | Re-Commissioning (Existing Construction) | No Re-Commissioning | Restaurant | Heat Pump | Existing | building | 1,980 | 16% | 0.2 | 5 | \$12,732 | 86% | 0.0 |
| FE-Met Ed | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Restaurant | Heat Pump | New | measure | 2,695,700 | 2.0% | 6.2 | 13 | \$339,358 | 43% | 0.1 |
| FE-Met Ed | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Restaurant | Heat Pump | ROB | measure | 2,695,700 | 2.0% | 6.2 | 13 | \$339,358 | 43% | 0.1 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Restaurant | Heat Pump | Existing | building | 1,980 | 12% | 0.1 | 15 | \$6,404 | 26% | 0.0 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Restaurant | Heat Pump | New | building | 1,980 | 0.5% | 0.01 | 15 | \$4,912 | 94% | 0.0 |
| FE-Met Ed | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Restaurant | Heat Pump | Early | heat pump | 9,170 | 38% | 0.3 | 15 | \$35,347 | 28% | 0.1 |
| FE-Met Ed | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Restaurant | Heat Pump | New | heat pump | 8,844 | 36% | 0.3 | 15 | \$15,739 | 28% | 0.1 |
| FE-Met Ed | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Restaurant | Heat Pump | ROB | heat pump | 8,844 | 36% | 0.3 | 15 | \$15,739 | 28% | 0.1 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | Early | Fixture | 1,000 | 9.6% | 0.02 | 13 | \$850 | 39% | 0.1 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Restaurant | High Bay Lighting | Early | Fixture | 999 | 9.5% | 0.02 | 13 | \$850 | 28% | 0.1 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Restaurant | High Bay Lighting | Early | Fixture | 1,542 | 41% | 0.1 | 13 | \$850 | 36% | 0.5 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | New | Fixture | 760 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Restaurant | High Bay Lighting | New | Fixture | 707 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Restaurant | High Bay Lighting | New | Fixture | 1,172 | 41% | 0.09 | 13 | \$397 | 36% | 0.8 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 1,000 | 9.6% | 0.02 | 13 | \$372 | 39% | 0.2 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 930 | 2.9% | 0.01 | 13 | \$338 | 28% | 0.1 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 1,542 | 41% | 0.1 | 13 | \$397 | 36% | 1.1 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | Early | Fixture | 1,941 | 19% | 0.07 | 13 | \$851 | 38% | 0.3 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Restaurant | High Bay Lighting | Early | Fixture | 1,965 | 20% | 0.08 | 13 | \$851 | 38% | 0.3 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | Early | Fixture | 5,715 | 73% | 0.8 | 13 | \$851 | 38% | 3.2 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | New | Fixture | 1,475 | 19% | 0.05 | 13 | \$372 | 38% | 0.5 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | New | Fixture | 4,344 | 73% | 0.6 | 13 | \$383 | 38% | 5.4 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 1,941 | 19% | 0.07 | 13 | \$372 | 38% | 0.7 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 5,715 | 73% | 0.8 | 13 | \$383 | 38% | 7.1 |
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | Early | Fixture | 1,941 | 25% | 0.09 | 13 | \$554 | 29% | 0.6 |
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Restaurant | High Bay Lighting | Early | Fixture | 1,905 | 23% | 0.09 | 13 | \$554 | 28% | 0.5 |
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | Early | Fixture | 5,715 | 74% | 0.8 | 13 | \$554 | 36% | 5.1 |
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | New | Fixture | 1,475 | 25% | 0.07 | 13 | \$75 | 29% | 3.2 |
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | New | Fixture | 4,344 | 74% | 0.6 | 13 | \$86 | 36% | 24.8 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|---|------------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 1,941 | 25% | 0.09 | 13 | \$75 | 29% | 4.2 |
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 5,715 | 74% | 0.8 | 13 | \$86 | 36% | 32.6 |
| FE-Met Ed | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Restaurant | High Bay Lighting | Early | Fixture | 506 | 0.2% | 0.00 | 13 | \$835 | 38% | 0.0 |
| FE-Met Ed | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Restaurant | High Bay Lighting | Early | Fixture | 1,090 | 54% | 0.1 | 13 | \$835 | 38% | 0.5 |
| FE-Met Ed | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Restaurant | High Bay Lighting | New | Fixture | 828 | 54% | 0.09 | 13 | \$382 | 38% | 0.8 |
| FE-Met Ed | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 1,090 | 54% | 0.1 | 13 | \$382 | 38% | 1.0 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | Early | Fixture | 2,472 | 18% | 0.09 | 13 | \$487 | 25% | 0.6 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Restaurant | High Bay Lighting | Early | Fixture | 2,585 | 22% | 0.1 | 13 | \$487 | 28% | 0.8 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | Early | Fixture | 5,715 | 65% | 0.7 | 13 | \$487 | 36% | 5.0 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | New | Fixture | 1,879 | 18% | 0.07 | 13 | \$16 | 25% | 13.9 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | New | Fixture | 4,344 | 65% | 0.5 | 13 | \$18 | 36% | 100.4 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 2,472 | 18% | 0.09 | 13 | \$16 | 25% | 18.3 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 5,715 | 65% | 0.7 | 13 | \$18 | 36% | 132.2 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | Early | Fixture | 2,472 | 1.5% | 0.01 | 13 | \$557 | 19% | 0.0 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Restaurant | High Bay Lighting | Early | Fixture | 2,545 | 4.3% | 0.02 | 13 | \$557 | 19% | 0.1 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | Early | Fixture | 5,715 | 57% | 0.6 | 13 | \$557 | 19% | 3.9 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | New | Fixture | 1,879 | 1.5% | 0.01 | 13 | \$86 | 19% | 0.2 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | New | Fixture | 4,344 | 57% | 0.5 | 13 | \$88 | 19% | 18.6 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 2,472 | 1.5% | 0.01 | 13 | \$86 | 19% | 0.3 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 5,715 | 57% | 0.6 | 13 | \$88 | 19% | 24.5 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Restaurant | High Bay Lighting | Early | Fixture | 1,050 | 29% | 0.04 | 13 | \$492 | 71% | 0.4 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | Early | Fixture | 878 | 15% | 0.02 | 13 | \$492 | 95% | 0.2 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Restaurant | High Bay Lighting | Early | Fixture | 1,304 | 43% | 0.08 | 13 | \$492 | 95% | 0.7 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Restaurant | High Bay Lighting | Early | Fixture | 1,209 | 38% | 0.06 | 13 | \$492 | 95% | 0.6 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | New | Fixture | 667 | 15% | 0.01 | 13 | \$25 | 95% | 2.4 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Restaurant | High Bay Lighting | New | Fixture | 991 | 43% | 0.06 | 13 | \$51 | 95% | 5.0 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 878 | 15% | 0.02 | 13 | \$25 | 95% | 3.2 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 1,304 | 43% | 0.08 | 13 | \$51 | 95% | 6.6 |
| FE-Met Ed | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Restaurant | High Bay Lighting | Early | lamp | 120 | 16% | 0.00 | 9 | \$7.7 | 99% | 1.2 |
| FE-Met Ed | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Restaurant | High Bay Lighting | New | lamp | 72 | 13% | 0.00 | 9 | \$1.6 | 91% | 2.7 |
| FE-Met Ed | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Restaurant | High Bay Lighting | ROB | lamp | 116 | 13% | 0.00 | 9 | \$1.6 | 91% | 4.3 |
| FE-Met Ed | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | Early | Fixture | 5,848 | 23% | 0.3 | 13 | \$613 | 5% | 1.4 |
| FE-Met Ed | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Restaurant | High Bay Lighting | Early | Fixture | 4,595 | 1.6% | 0.01 | 13 | \$613 | 28% | 0.1 |
| FE-Met Ed | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | Early | Fixture | 11,431 | 60% | 1.3 | 13 | \$613 | 18% | 7.4 |
| FE-Met Ed | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | New | Fixture | 4,445 | 23% | 0.2 | 13 | \$96 | 5% | 6.9 |
| FE-Met Ed | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 5,848 | 23% | 0.3 | 13 | \$96 | 5% | 9.1 |
| FE-Met Ed | Auto Off Time Switch | Lighting w/ No Controls | Restaurant | High Bay Lighting | Existing | building | 133 | 24% | 0.2 | 8 | \$181 | 13% | 0.9 |
| FE-Met Ed | Auto Off Time Switch | Lighting w/ No Controls | Restaurant | High Bay Lighting | New | building | 133 | 6.9% | 0.07 | 8 | \$181 | 0% | 0.2 |
| FE-Met Ed | Central Lighting Control System | Lighting w/ No Controls | Restaurant | High Bay Lighting | Existing | building | 133 | 38% | 0.4 | 8 | \$181 | 13% | 1.4 |
| FE-Met Ed | Central Lighting Control System | Lighting w/ No Controls | Restaurant | High Bay Lighting | New | building | 133 | 14% | 0.1 | 8 | \$181 | 13% | 0.5 |
| FE-Met Ed | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Restaurant | High Bay Lighting | New | building | 133 | 10% | 0.1 | 15 | \$46,260 | 32% | 0.0 |
| FE-Met Ed | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Restaurant | High Bay Lighting | New | building | 133 | 15% | 0.2 | 15 | \$115,651 | 32% | 0.0 |
| FE-Met Ed | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Restaurant | High Bay Lighting | New | building | 133 | 30% | 0.3 | 15 | \$165,766 | 32% | 0.0 |
| FE-Met Ed | Indoor Daylight Sensors | Lighting w/ No Controls | Restaurant | High Bay Lighting | Existing | building | 133 | 28% | 0.3 | 8 | \$891 | 13% | 0.2 |
| FE-Met Ed | Indoor Daylight Sensors | Lighting w/ No Controls | Restaurant | High Bay Lighting | New | building | 133 | 4.0% | 0.04 | 8 | \$891 | 0% | 0.0 |
| FE-Met Ed | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | Early | Fixture | 5,848 | 92% | 1.0 | 13 | \$1,916 | 95% | 1.9 |
| FE-Met Ed | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | Early | Fixture | 11,431 | 96% | 2.1 | 13 | \$1,916 | 95% | 3.8 |
| FE-Met Ed | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | New | Fixture | 4,445 | 92% | 0.8 | 13 | \$1,468 | 95% | 1.8 |
| FE-Met Ed | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | New | Fixture | 8,687 | 96% | 1.6 | 13 | \$1,149 | 95% | 4.8 |
| FE-Met Ed | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 5,848 | 92% | 1.0 | 13 | \$1,468 | 95% | 2.4 |
| FE-Met Ed | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 11,431 | 96% | 2.1 | 13 | \$1,149 | 95% | 6.3 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | Early | Fixture | 1,941 | 67% | 0.3 | 13 | \$960 | 95% | 0.9 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Restaurant | High Bay Lighting | Early | Fixture | 5,715 | 89% | 1.0 | 13 | \$960 | 95% | 3.5 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Restaurant | High Bay Lighting | Early | Fixture | 1,568 | 59% | 0.2 | 13 | \$960 | 95% | 0.6 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | New | Fixture | 1,475 | 67% | 0.2 | 13 | \$480 | 95% | 1.3 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Restaurant | High Bay Lighting | New | Fixture | 4,344 | 89% | 0.7 | 13 | \$491 | 95% | 5.2 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Restaurant | High Bay Lighting | New | Fixture | 1,192 | 59% | 0.1 | 13 | \$406 | 95% | 1.1 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 1,941 | 67% | 0.3 | 13 | \$480 | 95% | 1.8 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 5,715 | 89% | 1.0 | 13 | \$491 | 95% | 6.8 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 1,568 | 59% | 0.2 | 13 | \$406 | 95% | 1.5 |
| FE-Met Ed | Occupancy Sensor | Lighting w/ No Controls | Restaurant | High Bay Lighting | Existing | building | 133 | 24% | 0.2 | 8 | \$273 | 12% | 0.6 |
| FE-Met Ed | Occupancy Sensor | Lighting w/ No Controls | Restaurant | High Bay Lighting | New | building | 133 | 6.9% | 0.07 | 8 | \$273 | 0% | 0.2 |
| FE-Met Ed | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Restaurant | High Bay Lighting | Existing | building | 133 | 28% | 0.3 | 8 | \$891 | 12% | 0.2 |
| FE-Met Ed | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Restaurant | High Bay Lighting | New | building | 133 | 4.0% | 0.04 | 8 | \$891 | 0% | 0.0 |
| FE-Met Ed | Time Clock Control | Lighting w/ No Controls | Restaurant | High Bay Lighting | Existing | building | 133 | 28% | 0.3 | 8 | \$181 | 13% | 1.0 |
| FE-Met Ed | Time Clock Control | Lighting w/ No Controls | Restaurant | High Bay Lighting | New | building | 133 | 4.1% | 0.04 | 8 | \$181 | 0% | 0.1 |
| FE-Met Ed | Auto Off Time Switch | Lighting w/ No Controls | Restaurant | Lin. Fluor. Lighting | Existing | building | 10,450 | 24% | 0.2 | 8 | \$181 | 13% | 5.4 |
| FE-Met Ed | Auto Off Time Switch | Lighting w/ No Controls | Restaurant | Lin. Fluor. Lighting | New | building | 10,450 | 7.0% | 0.07 | 8 | \$181 | 0% | 1.5 |
| FE-Met Ed | Central Lighting Control System | Lighting w/ No Controls | Restaurant | Lin. Fluor. Lighting | Existing | building | 10,450 | 38% | 0.4 | 8 | \$181 | 12% | 8.5 |
| FE-Met Ed | Central Lighting Control System | Lighting w/ No Controls | Restaurant | Lin. Fluor. Lighting | New | building | 10,450 | 14% | 0.1 | 8 | \$181 | 12% | 3.1 |
| FE-Met Ed | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Restaurant | Lin. Fluor. Lighting | New | building | 10,450 | 10% | 0.1 | 15 | \$46,260 | 32% | 0.0 |
| FE-Met Ed | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Restaurant | Lin. Fluor. Lighting | New | building | 10,450 | 15% | 0.2 | 15 | \$115,651 | 32% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|--|------------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Restaurant | Lin. Fluor. Lighting | New | building | 10,450 | 30% | 0.3 | 15 | \$165,766 | 32% | 0.0 |
| FE-Met Ed | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Restaurant | Lin. Fluor. Lighting | Early | Lamp | 242 | 38% | 0.01 | 9 | \$7.3 | 94% | 5.8 |
| FE-Met Ed | Indoor Daylight Sensors | Lighting w/ No Controls | Restaurant | Lin. Fluor. Lighting | Existing | building | 10,450 | 28% | 0.3 | 8 | \$891 | 13% | 1.3 |
| FE-Met Ed | Indoor Daylight Sensors | Lighting w/ No Controls | Restaurant | Lin. Fluor. Lighting | New | building | 10,450 | 4.1% | 0.04 | 8 | \$891 | 0% | 0.2 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | Early | Lamp | 109 | 19% | 0.00 | 11 | \$35 | 94% | 0.4 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 40W T12 Lamp, Magnetic Ballast | Restaurant | Lin. Fluor. Lighting | Early | Lamp | 240 | 63% | 0.03 | 11 | \$35 | 94% | 2.5 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | Early | Lamp | 135 | 34% | 0.01 | 11 | \$35 | 94% | 0.8 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | Early | Lamp | 131 | 32% | 0.01 | 11 | \$35 | 94% | 0.7 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | New | Lamp | 83 | 19% | 0.00 | 11 | \$28 | 94% | 0.3 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | New | Lamp | 99 | 32% | 0.01 | 11 | \$29 | 94% | 0.7 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | New | Lamp | 102 | 34% | 0.01 | 11 | \$22 | 94% | 1.0 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | New | Lamp | 99 | 32% | 0.01 | 11 | \$29 | 94% | 0.7 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | ROB | Lamp | 109 | 19% | 0.00 | 11 | \$28 | 94% | 0.4 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | ROB | Lamp | 131 | 32% | 0.01 | 11 | \$29 | 94% | 0.9 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | ROB | Lamp | 135 | 34% | 0.01 | 11 | \$22 | 94% | 1.3 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | ROB | Lamp | 131 | 32% | 0.01 | 11 | \$29 | 94% | 0.9 |
| FE-Met Ed | Occupancy Sensor | Lighting w/ No Controls | Restaurant | Lin. Fluor. Lighting | Existing | building | 10,450 | 24% | 0.2 | 8 | \$273 | 13% | 3.6 |
| FE-Met Ed | Occupancy Sensor | Lighting w/ No Controls | Restaurant | Lin. Fluor. Lighting | New | building | 10,450 | 7.0% | 0.07 | 8 | \$273 | 0% | 1.0 |
| FE-Met Ed | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Restaurant | Lin. Fluor. Lighting | Existing | building | 10,450 | 28% | 0.3 | 8 | \$891 | 12% | 1.3 |
| FE-Met Ed | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Restaurant | Lin. Fluor. Lighting | New | building | 10,450 | 4.1% | 0.04 | 8 | \$891 | 0% | 0.2 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 40W T12 w/ Magnetic Ballast | Restaurant | Lin. Fluor. Lighting | Early | Lamp | 242 | 54% | 0.02 | 9 | \$9.1 | 94% | 6.6 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | Early | Lamp | 155 | 28% | 0.01 | 9 | \$9.1 | 24% | 2.2 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | Early | Lamp | 150 | 26% | 0.01 | 9 | \$9.1 | 94% | 2.0 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | New | Lamp | 114 | 26% | 0.00 | 9 | \$2.5 | 94% | 5.4 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | New | Lamp | 114 | 26% | 0.00 | 9 | \$2.5 | 94% | 5.4 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | New | Lamp | 118 | 28% | 0.00 | 9 | \$2.5 | 24% | 6.1 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | New | Lamp | 114 | 26% | 0.00 | 9 | \$2.5 | 94% | 5.4 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | ROB | Lamp | 150 | 26% | 0.01 | 9 | \$2.5 | 94% | 7.1 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | ROB | Lamp | 150 | 26% | 0.01 | 9 | \$2.5 | 94% | 7.1 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | ROB | Lamp | 155 | 28% | 0.01 | 9 | \$2.5 | 24% | 8.0 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | ROB | Lamp | 150 | 26% | 0.01 | 9 | \$2.5 | 94% | 7.1 |
| FE-Met Ed | T8 Lamp (any length) Electronic Ballast | Standard T12 lamp (any length) | Restaurant | Lin. Fluor. Lighting | Early | Lamp | 285 | 42% | 0.02 | 9 | \$14 | 94% | 4.0 |
| FE-Met Ed | Time Clock Control | Lighting w/ No Controls | Restaurant | Lin. Fluor. Lighting | Existing | building | 10,450 | 28% | 0.3 | 8 | \$181 | 14% | 6.3 |
| FE-Met Ed | Time Clock Control | Lighting w/ No Controls | Restaurant | Lin. Fluor. Lighting | New | building | 10,450 | 4.1% | 0.04 | 8 | \$181 | 0% | 0.9 |
| FE-Met Ed | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | Early | motor | 4,220 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.3 |
| FE-Met Ed | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | Early | motor | 4,220 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.3 |
| FE-Met Ed | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | Early | motor | 4,220 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.3 |
| FE-Met Ed | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | Early | motor | 4,220 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.3 |
| FE-Met Ed | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | Early | motor | 4,220 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.3 |
| FE-Met Ed | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | New | motor | 4,091 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| FE-Met Ed | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | New | motor | 4,091 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| FE-Met Ed | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | New | motor | 4,091 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| FE-Met Ed | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | New | motor | 4,091 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| FE-Met Ed | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | ROB | motor | 4,091 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| FE-Met Ed | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | ROB | motor | 4,091 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| FE-Met Ed | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | ROB | motor | 4,091 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| FE-Met Ed | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | ROB | motor | 4,091 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| FE-Met Ed | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | Early | motor | 6,222 | 3.1% | 0.02 | 15 | \$402 | 76% | 0.3 |
| FE-Met Ed | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | Early | motor | 6,222 | 3.1% | 0.02 | 15 | \$402 | 76% | 0.3 |
| FE-Met Ed | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | Early | motor | 6,222 | 3.1% | 0.02 | 15 | \$402 | 76% | 0.3 |
| FE-Met Ed | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | Early | motor | 6,222 | 3.1% | 0.03 | 15 | \$402 | 76% | 0.3 |
| FE-Met Ed | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | Early | motor | 6,222 | 3.1% | 0.02 | 15 | \$402 | 76% | 0.3 |
| FE-Met Ed | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | New | motor | 6,065 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.4 |
| FE-Met Ed | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | New | motor | 6,065 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.4 |
| FE-Met Ed | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | New | motor | 6,065 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.4 |
| FE-Met Ed | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | New | motor | 6,065 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.4 |
| FE-Met Ed | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | New | motor | 6,065 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.4 |
| FE-Met Ed | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | ROB | motor | 6,065 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.4 |
| FE-Met Ed | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | ROB | motor | 6,065 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.4 |
| FE-Met Ed | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | ROB | motor | 6,065 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.4 |
| FE-Met Ed | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | ROB | motor | 6,065 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.4 |
| FE-Met Ed | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | ROB | motor | 6,065 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.4 |
| FE-Met Ed | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | ROB | motor | 6,065 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.4 |
| FE-Met Ed | 100 HP Motor, Ultra-PE | 100 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | Early | motor | 371,035 | 1.7% | 0.8 | 15 | \$5,100 | 47% | 0.8 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|---|------------|---------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | New | motor | 276,135 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.8 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | New | motor | 276,135 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.9 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | New | motor | 276,135 | 0.6% | 0.2 | 15 | \$554 | 61% | 1.8 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | ROB | motor | 276,135 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.7 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | ROB | motor | 276,135 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.8 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | ROB | motor | 276,135 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.8 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | ROB | motor | 276,135 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.9 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | ROB | motor | 276,135 | 0.6% | 0.2 | 15 | \$554 | 61% | 1.8 |
| FE-Met Ed | ASD HVAC Fan | Std. HVAC Fan | Restaurant | Motors | New | measure | 1,593 | 6.0% | 0.01 | 15 | \$6,520 | 85% | 0.0 |
| FE-Met Ed | ASD HVAC Fan | Std. HVAC Fan | Restaurant | Motors | ROB | measure | 1,593 | 6.0% | 0.01 | 15 | \$6,520 | 85% | 0.0 |
| FE-Met Ed | demand controlled ventilation | Absence of Demand Controlled Ventilation | Restaurant | Motors | Early | measure | 1,593 | 14% | 0.03 | 10 | \$15,205 | 92% | 0.0 |
| FE-Met Ed | demand controlled ventilation | Office building thermostat | Restaurant | Motors | New | measure | 1,593 | 14% | 0.03 | 10 | \$11,863 | 92% | 0.0 |
| FE-Met Ed | demand controlled ventilation | Office building thermostat | Restaurant | Motors | ROB | measure | 1,593 | 14% | 0.03 | 10 | \$11,863 | 92% | 0.0 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Restaurant | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 23.0 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Restaurant | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 23.3 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Restaurant | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 24.0 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Restaurant | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 24.5 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Restaurant | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 24.9 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Restaurant | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 23.2 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Restaurant | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 23.2 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Restaurant | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 24.0 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Restaurant | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 24.4 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Restaurant | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 25.0 |
| FE-Met Ed | Escalator Motor Controller | Constant power control | Restaurant | Motors | New | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 22% | 6.3 |
| FE-Met Ed | Escalator Motor Controller | Constant power control | Restaurant | Motors | ROB | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 22% | 6.3 |
| FE-Met Ed | Fan Motor - correct sizing | Incorrect Fan Motor Sizing | Restaurant | Motors | ROB | measure | 1,593 | 1.6% | 0.00 | 15 | \$50 | 92% | 0.4 |
| FE-Met Ed | Variable Speed Drive Control, 15HP | Existing Motors w/out VSD Drive | Restaurant | Motors | Early | motor | 57,655 | 70% | 5.9 | 15 | \$731 | 86% | 38.7 |
| FE-Met Ed | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Restaurant | Motors | New | motor | 56,415 | 72% | 5.9 | 15 | \$731 | 86% | 38.7 |
| FE-Met Ed | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Restaurant | Motors | ROB | motor | 56,415 | 72% | 5.9 | 15 | \$731 | 86% | 38.7 |
| FE-Met Ed | Variable Speed Drive Control, 40HP | Existing Motors w/out VSD Drive | Restaurant | Motors | Early | motor | 150,439 | 71% | 15.7 | 15 | \$4,666 | 86% | 16.0 |
| FE-Met Ed | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Restaurant | Motors | New | motor | 148,681 | 72% | 15.6 | 15 | \$4,666 | 86% | 16.0 |
| FE-Met Ed | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Restaurant | Motors | ROB | motor | 148,681 | 72% | 15.6 | 15 | \$4,666 | 86% | 16.0 |
| FE-Met Ed | Variable Speed Drive Control, 5HP | Existing Motors w/out VFD Drive | Restaurant | Motors | Early | motor | 19,987 | 72% | 2.1 | 15 | \$2,243 | 86% | 4.4 |
| FE-Met Ed | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Restaurant | Motors | New | motor | 19,540 | 72% | 2.1 | 15 | \$2,243 | 86% | 4.4 |
| FE-Met Ed | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Restaurant | Motors | ROB | motor | 19,540 | 72% | 2.1 | 15 | \$2,243 | 86% | 4.4 |
| FE-Met Ed | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Restaurant | Motors | Early | motor | 1,863 | 60% | 0.1 | 15 | \$268 | 86% | 2.8 |
| FE-Met Ed | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Restaurant | Motors | New | motor | 1,863 | 60% | 0.1 | 15 | \$268 | 86% | 2.8 |
| FE-Met Ed | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Restaurant | Motors | ROB | motor | 1,863 | 60% | 0.1 | 15 | \$268 | 86% | 2.8 |
| FE-Met Ed | VFD on Chilled Water Pump | Motor w/out VFD Drive | Restaurant | Motors | Early | motor | 16,590 | 55% | 2.7 | 15 | \$2,903 | 86% | 2.6 |
| FE-Met Ed | VFD on Chilled Water Pump | Motor w/out VFD Drive | Restaurant | Motors | New | motor | 16,280 | 55% | 2.7 | 15 | \$2,843 | 86% | 2.6 |
| FE-Met Ed | VFD on Chilled Water Pump | Motor w/out VFD Drive | Restaurant | Motors | ROB | motor | 16,280 | 55% | 2.7 | 15 | \$2,843 | 86% | 2.6 |
| FE-Met Ed | VFD on Condenser Water Pump | Motor w/out VFD Drive | Restaurant | Motors | Early | motor | 18,641 | 32% | 3.2 | 15 | \$2,903 | 86% | 2.2 |
| FE-Met Ed | VFD on Condenser Water Pump | Motor w/out VFD Drive | Restaurant | Motors | New | motor | 18,292 | 33% | 3.1 | 15 | \$2,843 | 86% | 2.2 |
| FE-Met Ed | VFD on Condenser Water Pump | Motor w/out VFD Drive | Restaurant | Motors | ROB | motor | 18,292 | 33% | 3.1 | 15 | \$2,843 | 86% | 2.2 |
| FE-Met Ed | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Restaurant | Motors | Early | motor | 27,718 | 56% | 0.00 | 15 | \$2,903 | 86% | 2.9 |
| FE-Met Ed | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Restaurant | Motors | New | motor | 27,199 | 57% | 0.00 | 15 | \$2,843 | 86% | 3.0 |
| FE-Met Ed | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Restaurant | Motors | ROB | motor | 27,199 | 57% | 0.00 | 15 | \$2,843 | 86% | 3.0 |
| FE-Met Ed | VFD on HVAC Fan | Motor w/out VFD | Restaurant | Motors | Early | motor | 18,724 | 70% | 3.4 | 15 | \$2,903 | 86% | 3.7 |
| FE-Met Ed | VFD on HVAC Fan | Motor w/out VFD | Restaurant | Motors | New | motor | 18,373 | 72% | 3.3 | 15 | \$2,843 | 86% | 3.7 |
| FE-Met Ed | VFD on HVAC Fan | Motor w/out VFD | Restaurant | Motors | ROB | motor | 18,373 | 72% | 3.3 | 15 | \$2,843 | 86% | 3.7 |
| FE-Met Ed | Elevators | Std. Eff Elevator | Restaurant | Other | ROB | measure | 89,016 | 4.7% | 0.2 | 15 | \$443 | 81% | 5.5 |
| FE-Met Ed | Variable Speed Drives on Process Equipment | Constant speed control | Restaurant | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 11.3 |
| FE-Met Ed | Variable Speed Drives on Process Equipment | Constant speed control | Restaurant | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 11.3 |
| FE-Met Ed | Auto Off Time Switch | Lighting w/ No Controls | Restaurant | Other Int. Lighting | Existing | building | 1,165 | 24% | 0.2 | 8 | \$181 | 13% | 1.3 |
| FE-Met Ed | Auto Off Time Switch | Lighting w/ No Controls | Restaurant | Other Int. Lighting | New | building | 1,165 | 7.0% | 0.07 | 8 | \$181 | 0% | 0.4 |
| FE-Met Ed | Central Lighting Control System | Lighting w/ No Controls | Restaurant | Other Int. Lighting | Existing | building | 1,165 | 38% | 0.4 | 8 | \$181 | 13% | 2.1 |
| FE-Met Ed | Central Lighting Control System | Lighting w/ No Controls | Restaurant | Other Int. Lighting | New | building | 1,165 | 14% | 0.1 | 8 | \$181 | 13% | 0.8 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 40W Incandescent Bulb | Restaurant | Other Int. Lighting | Early | lamp | 253 | 87% | 0.05 | 5 | \$30 | 14% | 2.2 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Restaurant | Other Int. Lighting | Early | lamp | 181 | 81% | 0.03 | 5 | \$30 | 11% | 1.5 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Restaurant | Other Int. Lighting | New | lamp | 138 | 81% | 0.02 | 5 | \$21 | 14% | 1.6 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Restaurant | Other Int. Lighting | New | lamp | 138 | 81% | 0.02 | 5 | \$23 | 14% | 1.5 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Restaurant | Other Int. Lighting | New | lamp | 138 | 81% | 0.02 | 5 | \$22 | 11% | 1.6 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Restaurant | Other Int. Lighting | ROB | lamp | 181 | 81% | 0.03 | 5 | \$21 | 14% | 2.1 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Restaurant | Other Int. Lighting | ROB | lamp | 181 | 81% | 0.03 | 5 | \$23 | 14% | 2.0 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Restaurant | Other Int. Lighting | ROB | lamp | 181 | 81% | 0.03 | 5 | \$22 | 11% | 2.0 |
| FE-Met Ed | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Restaurant | Other Int. Lighting | Early | lamp | 253 | 75% | 0.04 | 2 | \$73 | 24% | 0.3 |
| FE-Met Ed | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Restaurant | Other Int. Lighting | New | fixture | 275 | 65% | 0.04 | 13 | \$29 | 28% | 4.2 |
| FE-Met Ed | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Restaurant | Other Int. Lighting | New | lamp | 138 | 65% | 0.02 | 2 | \$29 | 28% | 0.4 |
| FE-Met Ed | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Restaurant | Other Int. Lighting | ROB | fixture | 362 | 65% | 0.05 | 13 | \$29 | 24% | 5.5 |
| FE-Met Ed | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Restaurant | Other Int. Lighting | ROB | lamp | 181 | 65% | 0.03 | 2 | \$29 | 24% | 0.5 |
| FE-Met Ed | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Restaurant | Other Int. Lighting | Early | lamp | 253 | 75% | 0.04 | 2 | \$3.2 | 24% | 7.9 |
| FE-Met Ed | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Restaurant | Other Int. Lighting | New | lamp | 138 | 65% | 0.02 | 2 | \$1.8 | 24% | 6.7 |
| FE-Met Ed | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Restaurant | Other Int. Lighting | ROB | lamp | 181 | 65% | 0.03 | 2 | \$1.8 | 24% | 8.8 |
| FE-Met Ed | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Restaurant | Other Int. Lighting | ROB | lamp | 181 | 65% | 0.03 | 2 | \$1.8 | 24% | 8.8 |
| FE-Met Ed | Exit Sign Retrofit: CFL replacing Incandescent | One 23W Single Sided Incandescent Exit Sign | Restaurant | Other Int. Lighting | Early | exit sign | 121 | 42% | 0.01 | 15 | \$48 | 22% | 0.7 |
| FE-Met Ed | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Restaurant | Other Int. Lighting | New | building | 1,165 | 10% | 0.1 | 15 | \$46,260 | 32% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|---|------------|---------------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Restaurant | Other Int. Lighting | New | building | 1,165 | 15% | 0.2 | 15 | \$115,651 | 32% | 0.0 |
| FE-Met Ed | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Restaurant | Other Int. Lighting | New | building | 1,165 | 30% | 0.3 | 15 | \$165,766 | 32% | 0.0 |
| FE-Met Ed | Indoor Daylight Sensors | Lighting w/ No Controls | Restaurant | Other Int. Lighting | Existing | building | 1,165 | 28% | 0.3 | 8 | \$891 | 13% | 0.3 |
| FE-Met Ed | Indoor Daylight Sensors | Lighting w/ No Controls | Restaurant | Other Int. Lighting | New | building | 1,165 | 4.1% | 0.04 | 8 | \$891 | 0% | 0.0 |
| FE-Met Ed | LED Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Restaurant | Other Int. Lighting | Early | sign | 153 | 87% | 0.02 | 15 | \$48 | 16% | 1.9 |
| FE-Met Ed | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Restaurant | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 2.1 |
| FE-Met Ed | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Restaurant | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 2.1 |
| FE-Met Ed | LED Task Lighting/Screw-In | 1 15W CFL bulb | Restaurant | Other Int. Lighting | Early | lamp | 41 | 33% | 0.00 | 8 | \$9.6 | 24% | 0.7 |
| FE-Met Ed | LED Task Lighting/Screw-In | 1 60W Incandescent Bulb | Restaurant | Other Int. Lighting | Early | lamp | 163 | 83% | 0.03 | 8 | \$9.6 | 24% | 6.6 |
| FE-Met Ed | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Restaurant | Other Int. Lighting | New | lamp | 89 | 77% | 0.02 | 8 | \$7.9 | 24% | 4.0 |
| FE-Met Ed | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Restaurant | Other Int. Lighting | New | lamp | 89 | 77% | 0.02 | 8 | \$7.9 | 24% | 4.0 |
| FE-Met Ed | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Restaurant | Other Int. Lighting | ROB | lamp | 116 | 77% | 0.02 | 8 | \$7.9 | 24% | 5.3 |
| FE-Met Ed | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Restaurant | Other Int. Lighting | ROB | lamp | 116 | 77% | 0.02 | 8 | \$7.9 | 24% | 5.3 |
| FE-Met Ed | Occupancy Sensor | Lighting w/ No Controls | Restaurant | Other Int. Lighting | Existing | building | 1,165 | 24% | 0.2 | 8 | \$273 | 12% | 0.9 |
| FE-Met Ed | Occupancy Sensor | Lighting w/ No Controls | Restaurant | Other Int. Lighting | New | building | 1,165 | 7.0% | 0.07 | 8 | \$273 | 0% | 0.3 |
| FE-Met Ed | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Restaurant | Other Int. Lighting | Existing | building | 1,165 | 28% | 0.3 | 8 | \$891 | 12% | 0.3 |
| FE-Met Ed | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Restaurant | Other Int. Lighting | New | building | 1,165 | 4.1% | 0.04 | 8 | \$891 | 0% | 0.0 |
| FE-Met Ed | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Restaurant | Other Int. Lighting | Early | exit sign | 121 | 100% | 0.02 | 15 | \$173 | 26% | 0.5 |
| FE-Met Ed | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Restaurant | Other Int. Lighting | New | exit sign | 70 | 100% | 0.01 | 15 | \$148 | 31% | 0.3 |
| FE-Met Ed | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Restaurant | Other Int. Lighting | ROB | exit sign | 70 | 100% | 0.01 | 15 | \$148 | 26% | 0.3 |
| FE-Met Ed | Time Clock Control | Lighting w/ No Controls | Restaurant | Other Int. Lighting | Existing | building | 1,165 | 28% | 0.3 | 8 | \$181 | 13% | 1.5 |
| FE-Met Ed | Time Clock Control | Lighting w/ No Controls | Restaurant | Other Int. Lighting | New | building | 1,165 | 4.1% | 0.04 | 8 | \$181 | 0% | 0.2 |
| FE-Met Ed | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Restaurant | Plug Load | Existing | building | 456 | 46% | 0.5 | 5 | \$189 | 4% | 1.2 |
| FE-Met Ed | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Restaurant | Plug Load | New | building | 456 | 46% | 0.5 | 5 | \$189 | 4% | 1.2 |
| FE-Met Ed | Data Center - Server/Storage Consolidation | No Consolidation | Restaurant | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Met Ed | Data Center - Server/Storage Consolidation | No Consolidation | Restaurant | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Met Ed | Data Center - Server/Storage Virtualization | No Virtualization | Restaurant | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Met Ed | Data Center - Server/Storage Virtualization | No Virtualization | Restaurant | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Met Ed | Energy Star - Scanners | Std Scanner | Restaurant | Plug Load | New | measure | 68 | 3.8% | 0.04 | 4 | \$130 | 7% | 0.1 |
| FE-Met Ed | Energy Star - Scanners | Std Scanner | Restaurant | Plug Load | ROB | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| FE-Met Ed | Energy Star Dishwasher | Existing Dishwasher units | Restaurant | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,580 | 23% | 1.1 |
| FE-Met Ed | Energy Star Dishwasher | Standard Dishwasher unit | Restaurant | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 23% | 3.5 |
| FE-Met Ed | Energy Star Dishwasher | Standard Dishwasher unit | Restaurant | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 23% | 3.5 |
| FE-Met Ed | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Restaurant | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 17% | 0.2 |
| FE-Met Ed | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Restaurant | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.1 |
| FE-Met Ed | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Restaurant | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.1 |
| FE-Met Ed | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Restaurant | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 9% | 0.8 |
| FE-Met Ed | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Restaurant | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.7 |
| FE-Met Ed | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Restaurant | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.7 |
| FE-Met Ed | ENERGY STAR® Copiers | 10% Less Efficient Copier | Restaurant | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 18% | 0.0 |
| FE-Met Ed | ENERGY STAR® Copiers | One Conventional Copier | Restaurant | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| FE-Met Ed | ENERGY STAR® Copiers | One Conventional Copier | Restaurant | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| FE-Met Ed | ENERGY STAR® desktop | Standard computer | Restaurant | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 69% | 0.1 |
| FE-Met Ed | ENERGY STAR® desktop | Standard computer | Restaurant | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.4 |
| FE-Met Ed | ENERGY STAR® desktop | Standard computer | Restaurant | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.4 |
| FE-Met Ed | ENERGY STAR® Fax | 10% Less Efficient Fax | Restaurant | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 15% | 0.0 |
| FE-Met Ed | ENERGY STAR® Fax | One Conventional Fax | Restaurant | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| FE-Met Ed | ENERGY STAR® Fax | One Conventional Fax | Restaurant | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| FE-Met Ed | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Restaurant | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 70% | 0.0 |
| FE-Met Ed | ENERGY STAR® Monitors | One Conventional Monitor | Restaurant | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| FE-Met Ed | ENERGY STAR® Monitors | One Conventional Monitor | Restaurant | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| FE-Met Ed | ENERGY STAR® Printers | 10% Less Efficient Printer | Restaurant | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 44% | 0.0 |
| FE-Met Ed | ENERGY STAR® Printers | One Conventional Printer | Restaurant | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.4 |
| FE-Met Ed | ENERGY STAR® Printers | One Conventional Printer | Restaurant | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.4 |
| FE-Met Ed | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Restaurant | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 43% | 0.1 |
| FE-Met Ed | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Restaurant | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.8 |
| FE-Met Ed | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Restaurant | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.8 |
| FE-Met Ed | ENERGY STAR® Televisions | 10% Less Efficient Television | Restaurant | Plug Load | Early | Unit | 371 | 38% | 0.02 | 6 | \$672 | 40% | 0.1 |
| FE-Met Ed | ENERGY STAR® Televisions | One Conventional Television | Restaurant | Plug Load | New | Unit | 337 | 32% | 0.02 | 6 | \$206 | 40% | 0.2 |
| FE-Met Ed | ENERGY STAR® Televisions | One Conventional Television | Restaurant | Plug Load | ROB | Unit | 337 | 32% | 0.02 | 6 | \$206 | 40% | 0.2 |
| FE-Met Ed | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Restaurant | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 24% | 0.3 |
| FE-Met Ed | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Restaurant | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.7 |
| FE-Met Ed | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Restaurant | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.7 |
| FE-Met Ed | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Restaurant | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 51% | 0.3 |
| FE-Met Ed | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Restaurant | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 51% | 0.3 |
| FE-Met Ed | Network PC Power Management | No PC Power Management | Restaurant | Plug Load | Existing | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 5.7 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|--|------------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Network PC Power Management | No PC Power Management | Restaurant | Plug Load | New | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 5.7 |
| FE-Met Ed | Smart Strip Plug Outlets | Standard plug strip/outlet | Restaurant | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.5 |
| FE-Met Ed | Smart Strip Plug Outlets | Standard plug strip/outlet | Restaurant | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.5 |
| FE-Met Ed | Smart Strip Plug Outlets | Standard plug strip/outlet | Restaurant | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Met Ed | Smart Strip Plug Outlets | Standard plug strip/outlet | Restaurant | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Met Ed | Smart Strip Plug Outlets | Standard plug strip/outlet | Restaurant | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Met Ed | Smart Strip Plug Outlets | Standard plug strip/outlet | Restaurant | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Met Ed | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Restaurant | Plug Load | Existing | building | 456 | 46% | 0.5 | 5 | \$180 | 3% | 1.3 |
| FE-Met Ed | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Restaurant | Plug Load | New | building | 456 | 46% | 0.5 | 5 | \$180 | 3% | 1.3 |
| FE-Met Ed | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Restaurant | Refrigeration | Existing | building | 3,083 | 6.1% | 0.06 | 12 | \$70 | 11% | 1.9 |
| FE-Met Ed | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Restaurant | Refrigeration | New | building | 3,083 | 6.1% | 0.06 | 12 | \$70 | 11% | 1.9 |
| FE-Met Ed | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Restaurant | Refrigeration | Existing | building | 3,083 | 0.9% | 0.01 | 12 | \$70 | 11% | 0.3 |
| FE-Met Ed | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Restaurant | Refrigeration | New | building | 3,083 | 0.9% | 0.01 | 12 | \$70 | 11% | 0.3 |
| FE-Met Ed | Auto Closer on Refrigerator Door | Door w/out Autocloser | Restaurant | Refrigeration | Existing | building | 8,905 | 8.2% | 0.08 | 8 | \$770 | 40% | 0.4 |
| FE-Met Ed | Auto Closer on Refrigerator Door | Door w/out Autocloser | Restaurant | Refrigeration | Existing | building | 21,235 | 4.5% | 0.05 | 8 | \$766 | 40% | 0.4 |
| FE-Met Ed | Auto Closer on Refrigerator Door | Door w/out Autocloser | Restaurant | Refrigeration | New | building | 8,905 | 8.2% | 0.08 | 8 | \$770 | 40% | 0.4 |
| FE-Met Ed | Auto Closer on Refrigerator Door | Door w/out Autocloser | Restaurant | Refrigeration | New | building | 21,235 | 4.5% | 0.05 | 8 | \$766 | 40% | 0.4 |
| FE-Met Ed | Demand Hot Gas Defrost | Base Refrigeration System | Restaurant | Refrigeration | Existing | measure | 3,083 | 3.0% | 0.03 | 10 | \$1,385 | 0% | 0.0 |
| FE-Met Ed | Demand Hot Gas Defrost | Base Refrigeration System | Restaurant | Refrigeration | New | measure | 3,083 | 3.0% | 0.03 | 10 | \$1,385 | 0% | 0.0 |
| FE-Met Ed | Door Gasket- Freezer | Door w/out Gasket | Restaurant | Refrigeration | Existing | building | 8,905 | 4.4% | 0.04 | 4 | \$79 | 29% | 1.0 |
| FE-Met Ed | Door Gasket- Freezer | Door w/out Gasket | Restaurant | Refrigeration | New | building | 8,905 | 5.5% | 0.06 | 4 | \$79 | 29% | 1.3 |
| FE-Met Ed | Door Gasket- Refrigerator | Door w/out Gasket | Restaurant | Refrigeration | Existing | building | 21,235 | 1.7% | 0.02 | 4 | \$106 | 45% | 0.6 |
| FE-Met Ed | Door Gasket- Refrigerator | Door w/out Gasket | Restaurant | Refrigeration | New | building | 21,235 | 1.7% | 0.02 | 4 | \$106 | 45% | 0.6 |
| FE-Met Ed | eCube | Refrigeration unit w/out eCube | Restaurant | Refrigeration | Existing | building | 21,235 | 15% | 0.2 | 15 | \$1,946 | 57% | 1.0 |
| FE-Met Ed | eCube | Refrigeration unit w/out eCube | Restaurant | Refrigeration | New | building | 21,235 | 15% | 0.2 | 15 | \$1,946 | 57% | 1.0 |
| FE-Met Ed | Efficient compressor motor | Base Refrigeration System - Grocery | Restaurant | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| FE-Met Ed | Efficient compressor motor | Base Refrigeration System - Grocery | Restaurant | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| FE-Met Ed | Efficient compressor motor | Base Refrigeration System - Grocery | Restaurant | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| FE-Met Ed | Efficient compressor motor | Base Refrigeration System - Grocery | Restaurant | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| FE-Met Ed | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Restaurant | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.6 |
| FE-Met Ed | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Restaurant | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| FE-Met Ed | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Restaurant | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| FE-Met Ed | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Restaurant | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.3 |
| FE-Met Ed | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Restaurant | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.8 |
| FE-Met Ed | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Restaurant | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.8 |
| FE-Met Ed | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Restaurant | Refrigeration | Existing | building | 21,235 | 1.5% | 0.02 | 10 | \$369 | 77% | 0.4 |
| FE-Met Ed | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Restaurant | Refrigeration | New | building | 21,235 | 1.5% | 0.02 | 10 | \$369 | 77% | 0.4 |
| FE-Met Ed | Floating head pressure controller | System w/out FHPC | Restaurant | Refrigeration | Existing | building | 8,905 | 2.6% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-Met Ed | Floating head pressure controller | System w/out FHPC | Restaurant | Refrigeration | Existing | building | 3,083 | 3.2% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| FE-Met Ed | Floating head pressure controller | System w/out FHPC | Restaurant | Refrigeration | Existing | building | 21,235 | 0.4% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| FE-Met Ed | Floating head pressure controller | System w/out FHPC | Restaurant | Refrigeration | New | building | 8,905 | 2.6% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-Met Ed | Floating head pressure controller | System w/out FHPC | Restaurant | Refrigeration | New | building | 21,235 | 0.4% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| FE-Met Ed | Floating head pressure controller | System w/out FHPC | Restaurant | Refrigeration | New | building | 3,083 | 3.2% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| FE-Met Ed | High Efficiency Commercial Freezer | Std. Commercial Freezer | Restaurant | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 79% | 0.3 |
| FE-Met Ed | High Efficiency Commercial Freezer | Std. Commercial Freezer | Restaurant | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 79% | 4.1 |
| FE-Met Ed | High Efficiency Commercial Freezer | Std. Commercial Freezer | Restaurant | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 79% | 4.1 |
| FE-Met Ed | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Restaurant | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 79% | 0.1 |
| FE-Met Ed | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Restaurant | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 79% | 0.9 |
| FE-Met Ed | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Restaurant | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 79% | 0.9 |
| FE-Met Ed | High Efficiency Ice Maker | Existing Standard Efficiency Ice Maker in Pennsylvania | Restaurant | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 69% | 0.2 |
| FE-Met Ed | High Efficiency Ice Maker | Standard code minimum Ice Maker | Restaurant | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| FE-Met Ed | High Efficiency Ice Maker | Standard code minimum Ice Maker | Restaurant | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 69% | 0.2 |
| FE-Met Ed | High Efficiency Ice Making Head | Standard Ice Making Head | Restaurant | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 4.0 |
| FE-Met Ed | High Efficiency Ice Making Head | Standard Ice Making Head | Restaurant | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 4.0 |
| FE-Met Ed | High R-Value Glass Doors | Base Refrigeration System - Grocery | Restaurant | Refrigeration | Existing | building | 3,083 | 0.7% | 0.01 | 10 | \$53 | 0% | 0.3 |
| FE-Met Ed | High R-Value Glass Doors | Base Refrigeration System - Grocery | Restaurant | Refrigeration | New | building | 3,083 | 0.7% | 0.01 | 10 | \$53 | 0% | 0.2 |
| FE-Met Ed | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Restaurant | Refrigeration | Early | Fixture | 373 | 56% | 0.03 | 8 | \$448 | 89% | 0.2 |
| FE-Met Ed | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Restaurant | Refrigeration | New | Fixture | 291 | 44% | 0.02 | 8 | \$139 | 89% | 0.4 |
| FE-Met Ed | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Restaurant | Refrigeration | ROB | Fixture | 291 | 44% | 0.02 | 8 | \$139 | 89% | 0.4 |
| FE-Met Ed | No-heat glass doors | Standard low-temp reach-in | Restaurant | Refrigeration | Existing | building | 3,083 | 20% | 0.2 | 10 | \$4,850 | 8% | 0.1 |
| FE-Met Ed | No-heat glass doors | Standard low-temp reach-in | Restaurant | Refrigeration | New | building | 3,083 | 20% | 0.2 | 10 | \$4,850 | 8% | 0.1 |
| FE-Met Ed | Quick acting freezer doors | Std. Freezer Doors | Restaurant | Refrigeration | Existing | building | 8,905 | 13% | 0.1 | 10 | \$2,748 | 56% | 0.2 |
| FE-Met Ed | Quick acting freezer doors | Std. Freezer Doors | Restaurant | Refrigeration | New | building | 8,905 | 13% | 0.1 | 10 | \$2,748 | 56% | 0.2 |
| FE-Met Ed | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Restaurant | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 29% | 0.4 |
| FE-Met Ed | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Restaurant | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 29% | 1.6 |
| FE-Met Ed | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Restaurant | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 29% | 1.6 |
| FE-Met Ed | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 29% | 1.7 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|--|------------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 29% | 3.0 |
| FE-Met Ed | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 29% | 3.0 |
| FE-Met Ed | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 29% | 1.7 |
| FE-Met Ed | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 29% | 4.0 |
| FE-Met Ed | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 29% | 4.0 |
| FE-Met Ed | Refrigeration Commissioning | Non-commissioned refrigeration system | Restaurant | Refrigeration | Existing | building | 34,251 | 9.5% | 0.10 | 3 | \$4,759 | 85% | 0.1 |
| FE-Met Ed | Refrigeration Commissioning | Non-commissioned refrigeration system | Restaurant | Refrigeration | New | building | 34,251 | 9.5% | 0.10 | 3 | \$4,759 | 85% | 0.1 |
| FE-Met Ed | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Restaurant | Refrigeration | Existing | building | 8,905 | 11% | 0.1 | 4 | \$96 | 22% | 2.1 |
| FE-Met Ed | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Restaurant | Refrigeration | Existing | building | 21,235 | 2.0% | 0.02 | 4 | \$128 | 22% | 0.6 |
| FE-Met Ed | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Restaurant | Refrigeration | New | building | 8,905 | 11% | 0.1 | 4 | \$96 | 22% | 2.1 |
| FE-Met Ed | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Restaurant | Refrigeration | New | building | 21,235 | 2.0% | 0.02 | 4 | \$128 | 22% | 0.6 |
| FE-Met Ed | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Restaurant | Refrigeration | Existing | building | 8,905 | 2.2% | 0.02 | 11 | \$148 | 77% | 0.7 |
| FE-Met Ed | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Restaurant | Refrigeration | New | building | 8,905 | 2.2% | 0.02 | 11 | \$148 | 77% | 0.7 |
| FE-Met Ed | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Restaurant | Refrigeration | Existing | building | 21,235 | 1.6% | 0.02 | 11 | \$148 | 77% | 1.0 |
| FE-Met Ed | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Restaurant | Refrigeration | New | building | 21,235 | 1.6% | 0.02 | 11 | \$148 | 77% | 1.0 |
| FE-Met Ed | Vertical Night Covers | Display cases w/out night covers-High Temperature | Restaurant | Refrigeration | Existing | building | 3,083 | 0.1% | 0.00 | 5 | \$38 | 9% | 0.0 |
| FE-Met Ed | Vertical Night Covers | Display cases w/out night covers-High Temperature | Restaurant | Refrigeration | New | building | 3,083 | 0.1% | 0.00 | 5 | \$38 | 9% | 0.0 |
| FE-Met Ed | VSD Controlled Compressor | Compressor w/out VSD | Restaurant | Refrigeration | Early | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 73% | 0.2 |
| FE-Met Ed | VSD Controlled Compressor | Compressor w/out VSD | Restaurant | Refrigeration | New | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 73% | 0.2 |
| FE-Met Ed | VSD Controlled Compressor | Compressor w/out VSD | Restaurant | Refrigeration | ROB | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 73% | 0.2 |
| FE-Met Ed | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Restaurant | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$269 | 35% | 0.9 |
| FE-Met Ed | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Restaurant | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$269 | 35% | 0.9 |
| FE-Met Ed | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Restaurant | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.2 |
| FE-Met Ed | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Restaurant | Refrigeration | New | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 3.0 |
| FE-Met Ed | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Restaurant | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.2 |
| FE-Met Ed | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Restaurant | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 3.0 |
| FE-Met Ed | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 35% | 2.4 |
| FE-Met Ed | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 35% | 2.3 |
| FE-Met Ed | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 5.2 |
| FE-Met Ed | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.9 |
| FE-Met Ed | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 5.2 |
| FE-Met Ed | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.9 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Restaurant | Space Heating | Existing | building | 237 | 7.1% | 0.07 | 6 | \$19,559 | 82% | 0.0 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Restaurant | Space Heating | New | building | 237 | 7.1% | 0.07 | 6 | \$19,559 | 82% | 0.0 |
| FE-Met Ed | Adding window shade film | No shade film | Restaurant | Space Heating | Existing | building | 237 | 1.3% | 0.4 | 10 | \$2.9 | 13% | 92.2 |
| FE-Met Ed | Adding window shade film | No shade film | Restaurant | Space Heating | New | building | 237 | 1.3% | 0.4 | 10 | \$2.9 | 13% | 92.2 |
| FE-Met Ed | Adding window shade screen | No shade screen | Restaurant | Space Heating | Existing | building | 237 | 1.1% | 0.01 | 10 | \$1.1 | 13% | 7.3 |
| FE-Met Ed | Adding window shade screen | No shade screen | Restaurant | Space Heating | New | building | 237 | 1.1% | 0.01 | 10 | \$1.1 | 13% | 7.3 |
| FE-Met Ed | Automated control system | Manual Controls | Restaurant | Space Heating | Existing | building | 237 | 17% | 0.2 | 15 | \$259 | 51% | 0.7 |
| FE-Met Ed | Automated control system | Manual Controls | Restaurant | Space Heating | New | building | 237 | 17% | 0.2 | 15 | \$259 | 94% | 0.7 |
| FE-Met Ed | Ceiling Insulations (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Restaurant | Space Heating | Existing | building | 237 | 8.9% | 0.09 | 15 | \$26,661 | 71% | 0.0 |
| FE-Met Ed | Ceiling Insulations (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Restaurant | Space Heating | New | building | 237 | 3.0% | 0.03 | 15 | \$25,342 | 94% | 0.0 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Restaurant | Space Heating | Existing | building | 237 | 1.4% | 0.04 | 15 | \$1.9 | 20% | 21.1 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Restaurant | Space Heating | New | building | 237 | 1.4% | 0.04 | 15 | \$1.9 | 10% | 21.1 |
| FE-Met Ed | Efficient Unit Heating System | Existing Unit Heaters in PA | Restaurant | Space Heating | Early | heater | 34,344 | 23% | 0.06 | 15 | \$3,289 | 83% | 1.3 |
| FE-Met Ed | Efficient Unit Heating System | Std. Unit Heater | Restaurant | Space Heating | New | heater | 30,481 | 13% | 0.03 | 15 | \$1,991 | 83% | 1.1 |
| FE-Met Ed | Efficient Unit Heating System | Std. Unit Heater | Restaurant | Space Heating | ROB | heater | 30,481 | 13% | 0.03 | 15 | \$1,991 | 83% | 1.1 |
| FE-Met Ed | Facility Commissioning | No Facility Commissioning | Restaurant | Space Heating | New | building | 237 | 16% | 0.2 | 10 | \$7,894 | 89% | 0.0 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Restaurant | Space Heating | Existing | building | 237 | 7.1% | 0.07 | 15 | \$1,051 | 25% | 0.1 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Restaurant | Space Heating | New | building | 237 | 7.1% | 0.07 | 15 | \$1,051 | 35% | 0.1 |
| FE-Met Ed | Hi Eff HVAC System Design | No HVAC Design | Restaurant | Space Heating | New | building | 237 | 12% | 0.1 | 10 | \$111,554 | 51% | 0.0 |
| FE-Met Ed | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Restaurant | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 1.1 |
| FE-Met Ed | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Restaurant | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 1.1 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Restaurant | Space Heating | Existing | building | 237 | 3.5% | 0.04 | 10 | \$7,735 | 81% | 0.0 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Restaurant | Space Heating | New | building | 237 | 3.5% | 0.04 | 10 | \$7,735 | 81% | 0.0 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Restaurant | Space Heating | Existing | building | 237 | 3.6% | 0.04 | 11 | \$286 | 49% | 0.1 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Restaurant | Space Heating | New | building | 237 | 3.1% | 0.03 | 11 | \$146 | 49% | 0.2 |
| FE-Met Ed | Re-Commissioning (Existing Construction) | No Re-Commissioning | Restaurant | Space Heating | Existing | building | 237 | 16% | 0.2 | 5 | \$12,732 | 86% | 0.0 |
| FE-Met Ed | VFD on Cooling Tower Fan | Motor w/out VFD | Restaurant | Space Heating | Early | motor | 18,724 | 70% | 3.4 | 15 | \$2,843 | 88% | 3.6 |
| FE-Met Ed | VFD on Cooling Tower Fan | Motor w/out VFD | Restaurant | Space Heating | New | motor | 18,373 | 72% | 3.3 | 15 | \$2,843 | 88% | 3.6 |
| FE-Met Ed | VFD on Cooling Tower Fan | Motor w/out VFD | Restaurant | Space Heating | ROB | motor | 18,373 | 72% | 3.3 | 15 | \$2,843 | 88% | 3.6 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|--|--|------------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Restaurant | Space Heating | Existing | building | 237 | 12% | 0.1 | 15 | \$6,404 | 26% | 0.0 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Restaurant | Space Heating | New | building | 237 | 0.5% | 0.01 | 15 | \$4,912 | 94% | 0.0 |
| FE-Met Ed | Green LED Traffic Light | Green Incandescent Traffic Light | Restaurant | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 0% | 1.3 |
| FE-Met Ed | Green LED Traffic Light | Green Incandescent Traffic Light | Restaurant | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.2 |
| FE-Met Ed | Green LED Traffic Light | Green Incandescent Traffic Light | Restaurant | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.2 |
| FE-Met Ed | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Restaurant | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 0% | 3.1 |
| FE-Met Ed | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Restaurant | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-Met Ed | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Restaurant | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-Met Ed | Induction Street Lighting | One 100W HPS Street Light Fixture | Restaurant | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 0% | 0.3 |
| FE-Met Ed | Induction Street Lighting | One 100W HPS Street Light Fixture | Restaurant | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.8 |
| FE-Met Ed | Induction Street Lighting | One 100W HPS Street Light Fixture | Restaurant | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.8 |
| FE-Met Ed | LED Street Lighting | One 100W HPS Street Light | Restaurant | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 0% | 0.2 |
| FE-Met Ed | LED Street Lighting | One 100W HPS Street Light | Restaurant | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-Met Ed | LED Street Lighting | One 100W HPS Street Light | Restaurant | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-Met Ed | Red LED Traffic Light | One Red Incandescent Traffic Light | Restaurant | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 0% | 1.7 |
| FE-Met Ed | Red LED Traffic Light | One Red Incandescent Traffic Light | Restaurant | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| FE-Met Ed | Red LED Traffic Light | One Red Incandescent Traffic Light | Restaurant | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| FE-Met Ed | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Restaurant | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 0% | 0.1 |
| FE-Met Ed | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Restaurant | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-Met Ed | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Restaurant | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-Met Ed | Demand controlled Circulating Systems | Constant circulation system | Restaurant | Water Heating | Existing | building | 1,248 | 20% | 0.2 | 15 | \$226 | 59% | 1.5 |
| FE-Met Ed | Demand controlled Circulating Systems | Constant circulation system | Restaurant | Water Heating | New | building | 1,248 | 20% | 0.2 | 15 | \$226 | 59% | 1.5 |
| FE-Met Ed | Drainwater Heat Recovery Water Heater | No heat recovery | Restaurant | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 2.0 |
| FE-Met Ed | Drainwater Heat Recovery Water Heater | No heat recovery | Restaurant | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 2.0 |
| FE-Met Ed | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Restaurant | Water Heating | Existing | building | 1,248 | 5.9% | 0.06 | 12 | \$14 | 85% | 5.8 |
| FE-Met Ed | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Restaurant | Water Heating | New | building | 1,248 | 5.9% | 0.06 | 12 | \$4.0 | 85% | 20.5 |
| FE-Met Ed | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Restaurant | Water Heating | Early | water heater | 179,161 | 66% | 21.0 | 10 | \$7,124 | 68% | 8.6 |
| FE-Met Ed | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Restaurant | Water Heating | Early | water heater | 179,161 | 66% | 21.0 | 10 | \$7,124 | 68% | 8.6 |
| FE-Met Ed | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Restaurant | Water Heating | New | water heater | 179,161 | 66% | 21.0 | 10 | \$7,124 | 68% | 8.6 |
| FE-Met Ed | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Restaurant | Water Heating | New | water heater | 179,161 | 66% | 21.0 | 10 | \$7,124 | 68% | 8.6 |
| FE-Met Ed | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Restaurant | Water Heating | ROB | water heater | 174,184 | 65% | 20.1 | 10 | \$7,124 | 68% | 8.2 |
| FE-Met Ed | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Restaurant | Water Heating | ROB | water heater | 174,184 | 65% | 20.1 | 10 | \$7,124 | 68% | 8.2 |
| FE-Met Ed | Heat Recovery Unit | Base Water Heating | Restaurant | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.7 |
| FE-Met Ed | Heat Recovery Unit | Base Water Heating | Restaurant | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.7 |
| FE-Met Ed | Heat Trap | No Heat Trap | Restaurant | Water Heating | Existing | building | 1,248 | 1.0% | 0.01 | 11 | \$0.2 | 50% | 54.6 |
| FE-Met Ed | Heat Trap | No Heat Trap | Restaurant | Water Heating | New | building | 1,248 | 1.0% | 0.01 | 11 | \$0.1 | 50% | 142.4 |
| FE-Met Ed | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Restaurant | Water Heating | Early | water heater | 179,161 | 5.9% | 1.9 | 15 | \$1,842 | 79% | 4.2 |
| FE-Met Ed | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Restaurant | Water Heating | Early | water heater | 179,161 | 5.9% | 1.9 | 15 | \$1,842 | 79% | 4.2 |
| FE-Met Ed | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Restaurant | Water Heating | New | water heater | 174,184 | 3.2% | 1.0 | 15 | \$1,842 | 79% | 2.2 |
| FE-Met Ed | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Restaurant | Water Heating | New | water heater | 174,184 | 3.2% | 1.0 | 15 | \$1,842 | 79% | 2.2 |
| FE-Met Ed | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Restaurant | Water Heating | ROB | water heater | 174,184 | 3.2% | 1.0 | 15 | \$1,842 | 79% | 2.2 |
| FE-Met Ed | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Restaurant | Water Heating | ROB | water heater | 174,184 | 3.2% | 1.0 | 15 | \$1,842 | 79% | 2.2 |
| FE-Met Ed | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Restaurant | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$466 | 81% | 41.0 |
| FE-Met Ed | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Restaurant | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 21.4 |
| FE-Met Ed | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Restaurant | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 21.4 |
| FE-Met Ed | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Restaurant | Water Heating | Existing | building | 1,248 | 3.0% | 0.03 | 13 | \$5.5 | 68% | 8.1 |
| FE-Met Ed | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Restaurant | Water Heating | New | building | 1,248 | 3.0% | 0.03 | 13 | \$5.5 | 0% | 8.1 |
| FE-Met Ed | Hot Water Circulation Pump Time-Clock | Constant circulation system | Restaurant | Water Heating | Existing | building | 1,248 | 5.3% | 0.05 | 10 | \$5.0 | 72% | 12.7 |
| FE-Met Ed | Hot Water Circulation Pump Time-Clock | Constant circulation system | Restaurant | Water Heating | New | building | 1,248 | 5.3% | 0.05 | 10 | \$5.0 | 72% | 12.7 |
| FE-Met Ed | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Restaurant | Water Heating | Existing | building | 1,148 | 0.1% | 0.00 | 7 | \$22 | 78% | 0.0 |
| FE-Met Ed | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Restaurant | Water Heating | New | building | 1,148 | 6.6% | 0.07 | 7 | \$0.5 | 78% | 115.7 |
| FE-Met Ed | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Restaurant | Water Heating | Existing | building | 1,248 | 13% | 0.1 | 5 | \$300 | 80% | 0.3 |
| FE-Met Ed | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Restaurant | Water Heating | New | building | 1,248 | 13% | 0.1 | 5 | \$194 | 80% | 0.4 |
| FE-Met Ed | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Restaurant | Water Heating | Existing | building | 1,248 | 6.5% | 0.07 | 9 | \$25 | 2% | 2.9 |
| FE-Met Ed | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Restaurant | Water Heating | New | building | 1,248 | 6.5% | 0.07 | 9 | \$6.0 | 2% | 12.0 |
| FE-Met Ed | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Restaurant | Water Heating | Early | water heater | 179,161 | 52% | 7.6 | 15 | \$37,332 | 32% | 1.6 |
| FE-Met Ed | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Restaurant | Water Heating | New | water heater | 174,184 | 51% | 7.2 | 15 | \$37,332 | 32% | 1.5 |
| FE-Met Ed | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Restaurant | Water Heating | ROB | water heater | 174,184 | 51% | 7.2 | 15 | \$37,332 | 32% | 1.5 |
| FE-Met Ed | Ultrasonic Faucet Control | Manual Faucet Control | Restaurant | Water Heating | Existing | building | 1,248 | 3.0% | 0.03 | 10 | \$216 | 77% | 0.2 |
| FE-Met Ed | Ultrasonic Faucet Control | Manual Faucet Control | Restaurant | Water Heating | New | building | 1,248 | 3.0% | 0.03 | 10 | \$216 | 77% | 0.2 |
| FE-Met Ed | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Restaurant | Water Heating | Existing | building | 1,248 | 2.2% | 0.02 | 4 | \$28 | 83% | 0.4 |
| FE-Met Ed | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Restaurant | Water Heating | New | building | 1,248 | 2.3% | 0.02 | 4 | \$28 | 83% | 0.5 |
| FE-Met Ed | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Retail | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.2 |
| FE-Met Ed | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Retail | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.2 |
| FE-Met Ed | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Retail | Cooking | Early | steamer | 51 | 46% | 0.00 | 12 | \$5,053 | 81% | 0.0 |
| FE-Met Ed | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Retail | Cooking | New | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-Met Ed | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Retail | Cooking | ROB | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-Met Ed | Electric combination oven (Energy Star) | Standard Oven | Retail | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 3.1 |
| FE-Met Ed | Electric combination oven (Energy Star) | Standard Oven | Retail | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 3.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|--|---|---------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Electric Convection Oven | Conventional convection oven w/ 65% efficiency | Retail | Cooking | Early | oven | 8,641 | 37% | 0.6 | 12 | \$4,119 | 81% | 0.5 |
| FE-Met Ed | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Retail | Cooking | New | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.8 |
| FE-Met Ed | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Retail | Cooking | ROB | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.8 |
| FE-Met Ed | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Retail | Cooking | Early | fryer | 6,105 | 23% | 0.3 | 12 | \$9,241 | 86% | 0.1 |
| FE-Met Ed | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Retail | Cooking | New | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.4 |
| FE-Met Ed | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Retail | Cooking | ROB | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.4 |
| FE-Met Ed | High Efficiency Griddle (ENERGY STAR) | Efficiency code minimum griddle (70% eff) | Retail | Cooking | Early | griddle | 11,317 | 65% | 1.4 | 12 | \$4,977 | 86% | 0.9 |
| FE-Met Ed | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Retail | Cooking | New | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.3 |
| FE-Met Ed | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Retail | Cooking | ROB | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.3 |
| FE-Met Ed | High Efficiency Induction Cooking | Standard Cooking | Retail | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-Met Ed | High Efficiency Induction Cooking | Standard Cooking | Retail | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Retail | Cooling Central | Existing | building | 3,727 | 7.0% | 0.07 | 6 | \$14,435 | 82% | 0.0 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Retail | Cooling Central | New | building | 3,727 | 7.0% | 0.07 | 6 | \$14,435 | 82% | 0.0 |
| FE-Met Ed | Adding window shade film | No shade film | Retail | Cooling Central | Existing | building | 3,727 | 1.3% | 0.4 | 10 | \$45 | 13% | 6.3 |
| FE-Met Ed | Adding window shade film | No shade film | Retail | Cooling Central | New | building | 3,727 | 1.3% | 0.4 | 10 | \$45 | 13% | 6.3 |
| FE-Met Ed | Adding window shade screen | No shade screen | Retail | Cooling Central | Existing | building | 3,727 | 1.1% | 0.01 | 10 | \$18 | 13% | 1.3 |
| FE-Met Ed | Adding window shade screen | No shade screen | Retail | Cooling Central | New | building | 3,727 | 1.0% | 0.01 | 10 | \$18 | 13% | 1.3 |
| FE-Met Ed | Automated control system | Manual Controls | Retail | Cooling Central | Existing | building | 3,727 | 17% | 0.2 | 15 | \$4,081 | 51% | 0.1 |
| FE-Met Ed | Automated control system | Manual Controls | Retail | Cooling Central | New | building | 3,727 | 17% | 0.2 | 15 | \$4,081 | 94% | 0.1 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Retail | Cooling Central | Existing | building | 3,727 | 4.9% | 0.05 | 15 | \$19,662 | 71% | 0.0 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Retail | Cooling Central | New | building | 3,727 | 1.6% | 0.02 | 15 | \$18,689 | 94% | 0.0 |
| FE-Met Ed | Chiller Tuneup/Diagnostics | No tuneup | Retail | Cooling Central | Existing | building | 3,727 | 8.0% | 0.08 | 10 | \$9,518 | 59% | 0.0 |
| FE-Met Ed | Chiller Tuneup/Diagnostics | No tuneup | Retail | Cooling Central | New | building | 3,727 | 8.0% | 0.08 | 10 | \$9,518 | 59% | 0.0 |
| FE-Met Ed | Cooling Tower Optimization | No Cooling Tower Optimization | Retail | Cooling Central | Existing | building | 3,727 | 20% | 0.2 | 10 | \$23 | 69% | 18.7 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Retail | Cooling Central | Existing | building | 3,727 | 1.4% | 0.04 | 15 | \$30 | 20% | 2.3 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Retail | Cooling Central | New | building | 3,727 | 1.4% | 0.04 | 15 | \$30 | 10% | 2.3 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Retail | Cooling Central | Existing | building | 3,727 | 7.0% | 0.07 | 15 | \$16,534 | 25% | 0.0 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Retail | Cooling Central | New | building | 3,727 | 7.0% | 0.07 | 15 | \$16,534 | 35% | 0.0 |
| FE-Met Ed | Hi Eff HVAC System Design | No HVAC Design | Retail | Cooling Central | New | building | 3,727 | 11% | 0.1 | 10 | \$177,576 | 51% | 0.0 |
| FE-Met Ed | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Retail | Cooling Central | Early | ton | 8,181 | 24% | 0.7 | 15 | \$108,550 | 88% | 0.0 |
| FE-Met Ed | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Retail | Cooling Central | New | ton | 6,688 | 6.7% | 0.2 | 15 | \$12,927 | 88% | 0.0 |
| FE-Met Ed | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Retail | Cooling Central | ROB | ton | 6,688 | 6.7% | 0.2 | 15 | \$12,927 | 88% | 0.0 |
| FE-Met Ed | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Retail | Cooling Central | Early | ton | 12,225 | 23% | 1.0 | 15 | \$140,105 | 88% | 0.0 |
| FE-Met Ed | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Retail | Cooling Central | New | ton | 9,835 | 4.9% | 0.2 | 15 | \$9,336 | 88% | 0.0 |
| FE-Met Ed | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Retail | Cooling Central | ROB | ton | 9,835 | 4.9% | 0.2 | 15 | \$9,336 | 88% | 0.0 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Retail | Cooling Central | Early | ton | 100,076 | 26% | 9.0 | 15 | \$105,354 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Retail | Cooling Central | New | ton | 87,195 | 15% | 4.5 | 15 | \$30,530 | 88% | 0.4 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Retail | Cooling Central | ROB | ton | 87,195 | 15% | 4.5 | 15 | \$30,530 | 88% | 0.4 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Retail | Cooling Central | Early | ton | 149,886 | 23% | 11.9 | 15 | \$154,107 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Retail | Cooling Central | New | ton | 137,689 | 16% | 7.7 | 15 | \$27,646 | 88% | 0.7 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Retail | Cooling Central | ROB | ton | 149,886 | 23% | 11.9 | 15 | \$27,646 | 88% | 1.1 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Retail | Cooling Central | Early | ton | 248,933 | 23% | 19.5 | 15 | \$302,924 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Retail | Cooling Central | New | ton | 225,302 | 14% | 11.3 | 15 | \$115,432 | 88% | 0.3 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Retail | Cooling Central | ROB | ton | 248,933 | 23% | 19.5 | 15 | \$115,432 | 88% | 0.4 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Retail | Cooling Central | Early | ton | 298,720 | 23% | 23.4 | 15 | \$350,154 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Retail | Cooling Central | New | ton | 270,362 | 14% | 13.6 | 15 | \$120,406 | 88% | 0.3 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Retail | Cooling Central | ROB | ton | 298,720 | 23% | 23.4 | 15 | \$120,406 | 88% | 0.5 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Retail | Cooling Central | Early | ton | 66,214 | 29% | 6.7 | 15 | \$83,632 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Retail | Cooling Central | New | ton | 51,414 | 9.0% | 1.6 | 15 | \$40,211 | 88% | 0.1 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Retail | Cooling Central | ROB | ton | 66,214 | 29% | 6.7 | 15 | \$40,211 | 88% | 0.4 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Retail | Cooling Central | Early | ton | 113,772 | 35% | 13.8 | 15 | \$132,173 | 88% | 0.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|--|---|---------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Retail | Cooling Central | New | ton | 84,854 | 13% | 3.7 | 15 | \$39,556 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Retail | Cooling Central | ROB | ton | 84,854 | 13% | 3.7 | 15 | \$39,556 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Retail | Cooling Central | Early | ton | 189,951 | 39% | 25.8 | 15 | \$187,029 | 88% | 0.4 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Retail | Cooling Central | New | ton | 135,432 | 15% | 6.9 | 15 | \$33,554 | 88% | 0.5 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Retail | Cooling Central | ROB | ton | 189,951 | 39% | 25.8 | 15 | \$33,554 | 88% | 2.0 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Retail | Cooling Central | Early | ton | 33,239 | 30% | 3.4 | 15 | \$32,398 | 88% | 0.3 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Retail | Cooling Central | New | ton | 26,334 | 11% | 1.0 | 15 | \$7,188 | 88% | 0.4 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Retail | Cooling Central | ROB | ton | 33,239 | 30% | 3.4 | 15 | \$7,188 | 88% | 1.2 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Retail | Cooling Central | Existing | building | 3,727 | 2.3% | 0.02 | 10 | \$1,539 | 81% | 0.0 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Retail | Cooling Central | New | building | 3,727 | 2.3% | 0.02 | 10 | \$1,539 | 81% | 0.0 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Retail | Cooling Central | Existing | building | 3,727 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.2 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Retail | Cooling Central | New | building | 3,727 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.3 |
| FE-Met Ed | Re-Commissioning (Existing Construction) | No Re-Commissioning | Retail | Cooling Central | Existing | building | 3,727 | 16% | 0.2 | 5 | \$8,051 | 86% | 0.0 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Retail | Cooling Central | Existing | building | 3,727 | 8.1% | 0.08 | 15 | \$5,499 | 26% | 0.0 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Retail | Cooling Central | New | building | 3,727 | 0.3% | 0.00 | 15 | \$4,218 | 94% | 0.0 |
| FE-Met Ed | <65k BTU/hr 14 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Retail | Cooling Unitary | Early | ton | 2,269 | 16% | 0.3 | 15 | \$1,545 | 29% | 0.3 |
| FE-Met Ed | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Retail | Cooling Unitary | New | ton | 2,055 | 7.1% | 0.1 | 15 | \$339 | 29% | 0.5 |
| FE-Met Ed | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Retail | Cooling Unitary | ROB | ton | 2,055 | 7.1% | 0.1 | 15 | \$339 | 29% | 0.5 |
| FE-Met Ed | <65k BTU/hr 15 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Retail | Cooling Unitary | Early | ton | 2,269 | 22% | 0.4 | 15 | \$1,821 | 30% | 0.3 |
| FE-Met Ed | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Retail | Cooling Unitary | New | ton | 2,055 | 13% | 0.2 | 15 | \$714 | 30% | 0.5 |
| FE-Met Ed | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Retail | Cooling Unitary | ROB | ton | 2,055 | 13% | 0.2 | 15 | \$714 | 30% | 0.5 |
| FE-Met Ed | <65k BTU/hr 16 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Retail | Cooling Unitary | Early | ton | 2,269 | 26% | 0.4 | 15 | \$2,098 | 31% | 0.4 |
| FE-Met Ed | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Retail | Cooling Unitary | New | ton | 2,055 | 19% | 0.3 | 15 | \$1,089 | 31% | 0.4 |
| FE-Met Ed | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Retail | Cooling Unitary | ROB | ton | 2,055 | 19% | 0.3 | 15 | \$1,089 | 31% | 0.4 |
| FE-Met Ed | >760k min 10.2 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Retail | Cooling Unitary | Early | ton | 57,400 | 3.7% | 1.5 | 15 | \$68,066 | 56% | 0.0 |
| FE-Met Ed | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Retail | Cooling Unitary | New | ton | 58,136 | 4.9% | 2.0 | 15 | \$6,231 | 56% | 0.6 |
| FE-Met Ed | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Retail | Cooling Unitary | ROB | ton | 58,136 | 4.9% | 2.0 | 15 | \$6,231 | 56% | 0.6 |
| FE-Met Ed | 135-240k min 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Retail | Cooling Unitary | Early | ton | 14,123 | 18% | 1.8 | 15 | \$18,135 | 79% | 0.2 |
| FE-Met Ed | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Retail | Cooling Unitary | New | ton | 12,848 | 10.0% | 0.9 | 15 | \$1,948 | 79% | 0.8 |
| FE-Met Ed | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Retail | Cooling Unitary | ROB | ton | 12,848 | 10.0% | 0.9 | 15 | \$1,948 | 79% | 0.8 |
| FE-Met Ed | 240k-760k min 11 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Retail | Cooling Unitary | Early | ton | 37,763 | 9.0% | 2.5 | 15 | \$44,809 | 66% | 0.1 |
| FE-Met Ed | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Retail | Cooling Unitary | New | ton | 37,857 | 9.3% | 2.5 | 15 | \$4,796 | 66% | 0.9 |
| FE-Met Ed | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Retail | Cooling Unitary | ROB | ton | 37,857 | 9.3% | 2.5 | 15 | \$4,796 | 66% | 0.9 |
| FE-Met Ed | 65k-135k BTU/hr 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Retail | Cooling Unitary | Early | ton | 8,326 | 17% | 1.0 | 15 | \$10,946 | 86% | 0.2 |
| FE-Met Ed | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Retail | Cooling Unitary | New | ton | 7,420 | 6.7% | 0.4 | 15 | \$1,392 | 86% | 0.4 |
| FE-Met Ed | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Retail | Cooling Unitary | ROB | ton | 7,420 | 6.7% | 0.4 | 15 | \$1,392 | 86% | 0.4 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Retail | Cooling Unitary | Existing | building | 34,583 | 7.0% | 0.07 | 6 | \$14,435 | 82% | 0.0 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Retail | Cooling Unitary | New | building | 34,583 | 7.1% | 0.07 | 6 | \$14,435 | 82% | 0.0 |
| FE-Met Ed | Adding window shade film | No shade film | Retail | Cooling Unitary | Existing | building | 34,583 | 1.3% | 0.4 | 10 | \$421 | 12% | 1.1 |
| FE-Met Ed | Adding window shade film | No shade film | Retail | Cooling Unitary | New | building | 34,583 | 1.3% | 0.4 | 10 | \$421 | 13% | 1.1 |
| FE-Met Ed | Adding window shade screen | No shade screen | Retail | Cooling Unitary | Existing | building | 34,583 | 1.1% | 0.01 | 10 | \$163 | 12% | 0.9 |
| FE-Met Ed | Adding window shade screen | No shade screen | Retail | Cooling Unitary | New | building | 34,583 | 1.1% | 0.01 | 10 | \$163 | 13% | 1.0 |
| FE-Met Ed | Automated control system | Manual Controls | Retail | Cooling Unitary | Existing | building | 34,583 | 17% | 0.2 | 15 | \$37,860 | 51% | 0.1 |
| FE-Met Ed | Automated control system | Manual Controls | Retail | Cooling Unitary | New | building | 34,583 | 17% | 0.2 | 15 | \$37,860 | 94% | 0.1 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Retail | Cooling Unitary | Existing | building | 34,583 | 4.9% | 0.05 | 15 | \$19,662 | 71% | 0.1 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Retail | Cooling Unitary | New | building | 34,583 | 1.6% | 0.02 | 15 | \$18,689 | 94% | 0.0 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Retail | Cooling Unitary | Existing | building | 34,583 | 1.4% | 0.04 | 15 | \$275 | 20% | 1.1 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Retail | Cooling Unitary | New | building | 34,583 | 1.4% | 0.04 | 15 | \$275 | 10% | 1.1 |
| FE-Met Ed | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Retail | Cooling Unitary | Existing | building | 19,021 | 13% | 0.1 | 1 | \$182 | 73% | 0.8 |
| FE-Met Ed | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Retail | Cooling Unitary | New | building | 19,021 | 13% | 0.1 | 1 | \$182 | 73% | 0.8 |
| FE-Met Ed | ECM Motors for split systems | Std Shaded Pole Motor | Retail | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 3.0 |
| FE-Met Ed | ECM Motors for split systems | Std Shaded Pole Motor | Retail | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 3.0 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Retail | Cooling Unitary | Existing | building | 34,583 | 7.1% | 0.07 | 15 | \$153,401 | 25% | 0.0 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Retail | Cooling Unitary | New | building | 34,583 | 7.0% | 0.07 | 15 | \$153,401 | 35% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|--|---|---------|-----------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Hi Eff HVAC System Design | No HVAC Design | Retail | Cooling Unitary | New | building | 34,583 | 11% | 0.1 | 10 | \$15,475 | 51% | 0.1 |
| FE-Met Ed | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Retail | Cooling Unitary | Existing | building | 34,583 | 5.0% | 0.05 | 5 | \$225 | 59% | 1.8 |
| FE-Met Ed | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Retail | Cooling Unitary | Existing | building | 34,583 | 0.8% | 0.1 | 5 | \$225 | 51% | 0.5 |
| FE-Met Ed | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Retail | Cooling Unitary | New | building | 34,583 | 0.7% | 0.09 | 5 | \$135 | 51% | 0.7 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Retail | Cooling Unitary | Existing | building | 34,583 | 2.3% | 0.02 | 10 | \$1,654 | 86% | 0.2 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Retail | Cooling Unitary | New | building | 34,583 | 2.3% | 0.02 | 10 | \$1,654 | 86% | 0.2 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) | Retail | Cooling Unitary | Existing | building | 34,583 | 2.0% | 0.02 | 11 | \$286 | 49% | 1.1 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Retail | Cooling Unitary | New | building | 34,583 | 1.7% | 0.02 | 11 | \$146 | 49% | 1.8 |
| FE-Met Ed | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Retail | Cooling Unitary | Early | unit | 3,238 | 19% | 0.1 | 15 | \$849 | 85% | 0.5 |
| FE-Met Ed | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Retail | Cooling Unitary | New | unit | 3,271 | 20% | 0.1 | 15 | \$356 | 85% | 1.4 |
| FE-Met Ed | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Retail | Cooling Unitary | ROB | unit | 3,271 | 20% | 0.1 | 15 | \$356 | 85% | 1.4 |
| FE-Met Ed | Re-Commissioning (Existing Construction) | No Re-Commissioning | Retail | Cooling Unitary | Existing | building | 34,583 | 16% | 0.2 | 5 | \$8,051 | 86% | 0.2 |
| FE-Met Ed | Room AC (w/ louvered sides) | Existing efficiency Room AC in Pennsylvania (2000 Federal Standards) | Retail | Cooling Unitary | Early | ton | 1,061 | 13% | 0.05 | 9 | \$348 | 82% | 0.2 |
| FE-Met Ed | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Retail | Cooling Unitary | New | ton | 962 | 4.5% | 0.01 | 9 | \$17 | 82% | 1.5 |
| FE-Met Ed | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Retail | Cooling Unitary | ROB | ton | 962 | 4.5% | 0.01 | 9 | \$17 | 82% | 1.5 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Retail | Cooling Unitary | Existing | building | 34,583 | 8.1% | 0.08 | 15 | \$5,499 | 26% | 0.3 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Retail | Cooling Unitary | New | building | 34,583 | 0.3% | 0.00 | 15 | \$4,218 | 94% | 0.0 |
| FE-Met Ed | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Retail | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 1.2 |
| FE-Met Ed | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Retail | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.6 |
| FE-Met Ed | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Retail | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.6 |
| FE-Met Ed | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Retail | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 0% | 0.2 |
| FE-Met Ed | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Retail | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-Met Ed | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Retail | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-Met Ed | LED exterior lighting | 250 Watt Incandescent | Retail | Ext. Lighting | ROB | measure | 475 | 83% | 0.1 | 15 | \$104 | 89% | 3.1 |
| FE-Met Ed | LED exterior lighting | 250 Watt Incandescent | Retail | Ext. Lighting | ROB | measure | 431 | 83% | 0.1 | 15 | \$104 | 89% | 2.9 |
| FE-Met Ed | LED exterior lighting | 250 Watt Incandescent | Retail | Ext. Lighting | ROB | measure | 431 | 83% | 0.1 | 15 | \$104 | 89% | 2.9 |
| FE-Met Ed | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Retail | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 75% | 0.3 |
| FE-Met Ed | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Retail | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 75% | 0.2 |
| FE-Met Ed | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Retail | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.9 |
| FE-Met Ed | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Retail | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.2 |
| FE-Met Ed | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Retail | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.9 |
| FE-Met Ed | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Retail | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.2 |
| FE-Met Ed | Photocell Controls (Outdoor) | Lighting w/ No Controls | Retail | Ext. Lighting | Existing | building | 174 | 28% | 0.3 | 8 | \$1,459 | 88% | 0.1 |
| FE-Met Ed | Photocell Controls (Outdoor) | Lighting w/ No Controls | Retail | Ext. Lighting | New | building | 174 | 28% | 0.3 | 8 | \$1,459 | 0% | 0.1 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Retail | Heat Pump | Existing | building | 3,518 | 6.9% | 0.07 | 6 | \$14,435 | 82% | 0.0 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Retail | Heat Pump | New | building | 3,518 | 6.9% | 0.07 | 6 | \$14,435 | 82% | 0.0 |
| FE-Met Ed | Adding window shade film | No shade film | Retail | Heat Pump | Existing | building | 3,518 | 3.9% | 0.4 | 10 | \$43 | 12% | 7.4 |
| FE-Met Ed | Adding window shade film | No shade film | Retail | Heat Pump | New | building | 3,518 | 3.9% | 0.4 | 10 | \$43 | 12% | 7.4 |
| FE-Met Ed | Adding window shade screen | No shade screen | Retail | Heat Pump | Existing | building | 3,518 | 0.3% | 0.01 | 10 | \$5.5 | 12% | 2.1 |
| FE-Met Ed | Adding window shade screen | No shade screen | Retail | Heat Pump | New | building | 3,518 | 0.3% | 0.01 | 10 | \$5.5 | 12% | 2.1 |
| FE-Met Ed | Automated control system | Manual Controls | Retail | Heat Pump | Existing | building | 3,518 | 17% | 0.2 | 15 | \$3,851 | 51% | 0.1 |
| FE-Met Ed | Automated control system | Manual Controls | Retail | Heat Pump | New | building | 3,518 | 17% | 0.2 | 15 | \$3,851 | 94% | 0.1 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Retail | Heat Pump | Existing | building | 3,518 | 4.9% | 0.05 | 15 | \$19,662 | 71% | 0.0 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Retail | Heat Pump | New | building | 3,518 | 1.6% | 0.02 | 15 | \$18,689 | 94% | 0.0 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Retail | Heat Pump | Existing | building | 3,518 | 4.0% | 0.04 | 15 | \$28 | 12% | 4.1 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Retail | Heat Pump | New | building | 3,518 | 4.0% | 0.04 | 15 | \$28 | 6% | 4.1 |
| FE-Met Ed | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Retail | Heat Pump | Early | heat pump | 1,805 | 13% | 0.02 | 15 | \$4,070 | 83% | 0.0 |
| FE-Met Ed | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Retail | Heat Pump | New | heat pump | 1,712 | 7.7% | 0.01 | 15 | \$1,097 | 83% | 0.1 |
| FE-Met Ed | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Retail | Heat Pump | ROB | heat pump | 1,712 | 7.7% | 0.01 | 15 | \$1,097 | 83% | 0.1 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Retail | Heat Pump | Existing | building | 3,518 | 7.0% | 0.07 | 15 | \$15,603 | 25% | 0.0 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Retail | Heat Pump | New | building | 3,518 | 7.0% | 0.07 | 15 | \$15,603 | 35% | 0.0 |
| FE-Met Ed | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Retail | Heat Pump | Early | heat pump | 18,787 | 17% | 0.3 | 15 | \$91,117 | 19% | 0.0 |
| FE-Met Ed | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Retail | Heat Pump | New | heat pump | 18,021 | 14% | 0.2 | 15 | \$33,927 | 19% | 0.0 |
| FE-Met Ed | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Retail | Heat Pump | ROB | heat pump | 18,021 | 14% | 0.2 | 15 | \$33,927 | 19% | 0.0 |
| FE-Met Ed | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Retail | Heat Pump | Early | heat pump | 18,787 | 17% | 0.3 | 15 | \$58,356 | 19% | 0.0 |
| FE-Met Ed | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Retail | Heat Pump | New | heat pump | 18,021 | 14% | 0.2 | 15 | \$1,167 | 19% | 1.3 |
| FE-Met Ed | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Retail | Heat Pump | ROB | heat pump | 18,021 | 14% | 0.2 | 15 | \$1,167 | 19% | 1.3 |
| FE-Met Ed | Hi Eff HVAC System Design | No HVAC Design | Retail | Heat Pump | New | building | 3,518 | 11% | 0.1 | 10 | \$177,576 | 51% | 0.0 |
| FE-Met Ed | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Retail | Heat Pump | Early | heat pump | 4,814 | 17% | 0.07 | 12 | \$4,298 | 81% | 0.1 |
| FE-Met Ed | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Retail | Heat Pump | New | heat pump | 4,565 | 13% | 0.05 | 12 | \$852 | 81% | 0.3 |
| FE-Met Ed | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Retail | Heat Pump | ROB | heat pump | 4,565 | 13% | 0.05 | 12 | \$852 | 81% | 0.3 |
| FE-Met Ed | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Retail | Heat Pump | Existing | building | 3,518 | 5.0% | 0.02 | 5 | \$90 | 51% | 0.5 |
| FE-Met Ed | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Retail | Heat Pump | New | building | 3,518 | 5.0% | 0.02 | 5 | \$90 | 51% | 0.5 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|--|--|---------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Retail | Heat Pump | Existing | building | 3,518 | 2.3% | 0.02 | 10 | \$1,473 | 81% | 0.0 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Retail | Heat Pump | New | building | 3,518 | 2.3% | 0.02 | 10 | \$1,473 | 81% | 0.0 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Retail | Heat Pump | Existing | building | 3,518 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.2 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Retail | Heat Pump | New | building | 3,518 | 2.1% | 0.02 | 11 | \$146 | 49% | 0.3 |
| FE-Met Ed | Re-Commissioning (Existing Construction) | No Re-Commissioning | Retail | Heat Pump | Existing | building | 3,518 | 16% | 0.2 | 5 | \$8,051 | 86% | 0.0 |
| FE-Met Ed | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Retail | Heat Pump | New | measure | 679,680 | 2.0% | 1.6 | 13 | \$85,564 | 43% | 0.1 |
| FE-Met Ed | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Retail | Heat Pump | ROB | measure | 679,680 | 2.0% | 1.6 | 13 | \$85,564 | 43% | 0.1 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Retail | Heat Pump | Existing | building | 3,518 | 8.1% | 0.08 | 15 | \$5,499 | 26% | 0.0 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Retail | Heat Pump | New | building | 3,518 | 0.3% | 0.00 | 15 | \$4,218 | 94% | 0.0 |
| FE-Met Ed | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Retail | Heat Pump | Early | heat pump | 7,633 | 33% | 0.2 | 15 | \$35,347 | 28% | 0.0 |
| FE-Met Ed | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Retail | Heat Pump | New | heat pump | 7,197 | 29% | 0.2 | 15 | \$15,739 | 28% | 0.1 |
| FE-Met Ed | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Retail | Heat Pump | ROB | heat pump | 7,197 | 29% | 0.2 | 15 | \$15,739 | 28% | 0.1 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Retail | High Bay Lighting | Early | Fixture | 614 | 9.6% | 0.02 | 13 | \$850 | 39% | 0.1 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Retail | High Bay Lighting | Early | Fixture | 613 | 9.5% | 0.02 | 13 | \$850 | 28% | 0.0 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Retail | High Bay Lighting | Early | Fixture | 947 | 41% | 0.1 | 13 | \$850 | 36% | 0.3 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Retail | High Bay Lighting | New | Fixture | 466 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Retail | High Bay Lighting | New | Fixture | 434 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Retail | High Bay Lighting | New | Fixture | 720 | 41% | 0.08 | 13 | \$397 | 36% | 0.5 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Retail | High Bay Lighting | ROB | Fixture | 614 | 9.6% | 0.02 | 13 | \$372 | 39% | 0.1 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Retail | High Bay Lighting | ROB | Fixture | 571 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Retail | High Bay Lighting | ROB | Fixture | 947 | 41% | 0.1 | 13 | \$397 | 36% | 0.7 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Retail | High Bay Lighting | Early | Fixture | 1,192 | 19% | 0.06 | 13 | \$851 | 38% | 0.2 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Retail | High Bay Lighting | Early | Fixture | 1,207 | 20% | 0.07 | 13 | \$851 | 38% | 0.2 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | Early | Fixture | 3,510 | 73% | 0.7 | 13 | \$851 | 38% | 2.2 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Retail | High Bay Lighting | New | Fixture | 906 | 19% | 0.05 | 13 | \$372 | 38% | 0.3 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | New | Fixture | 2,667 | 73% | 0.5 | 13 | \$383 | 38% | 3.7 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Retail | High Bay Lighting | ROB | Fixture | 1,192 | 19% | 0.06 | 13 | \$372 | 38% | 0.4 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | ROB | Fixture | 3,510 | 73% | 0.7 | 13 | \$383 | 38% | 4.8 |
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Retail | High Bay Lighting | Early | Fixture | 1,192 | 25% | 0.08 | 13 | \$554 | 29% | 0.4 |
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Retail | High Bay Lighting | Early | Fixture | 1,170 | 23% | 0.07 | 13 | \$554 | 28% | 0.4 |
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | Early | Fixture | 3,510 | 74% | 0.7 | 13 | \$554 | 36% | 3.4 |
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Retail | High Bay Lighting | New | Fixture | 906 | 25% | 0.06 | 13 | \$75 | 29% | 2.2 |
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | New | Fixture | 2,667 | 74% | 0.5 | 13 | \$86 | 36% | 16.8 |
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Retail | High Bay Lighting | ROB | Fixture | 1,192 | 25% | 0.08 | 13 | \$75 | 29% | 2.8 |
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | ROB | Fixture | 3,510 | 74% | 0.7 | 13 | \$86 | 36% | 22.1 |
| FE-Met Ed | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Retail | High Bay Lighting | Early | Fixture | 311 | 0.2% | 0.00 | 13 | \$835 | 38% | 0.0 |
| FE-Met Ed | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Retail | High Bay Lighting | Early | Fixture | 669 | 54% | 0.10 | 13 | \$835 | 38% | 0.3 |
| FE-Met Ed | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Retail | High Bay Lighting | New | Fixture | 509 | 54% | 0.07 | 13 | \$382 | 38% | 0.5 |
| FE-Met Ed | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Retail | High Bay Lighting | ROB | Fixture | 669 | 54% | 0.10 | 13 | \$382 | 38% | 0.7 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Retail | High Bay Lighting | Early | Fixture | 1,518 | 18% | 0.08 | 13 | \$487 | 25% | 0.4 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Retail | High Bay Lighting | Early | Fixture | 1,587 | 22% | 0.09 | 13 | \$487 | 28% | 0.5 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | Early | Fixture | 3,510 | 65% | 0.6 | 13 | \$487 | 36% | 3.4 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Retail | High Bay Lighting | New | Fixture | 1,154 | 18% | 0.06 | 13 | \$16 | 25% | 9.4 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | New | Fixture | 2,667 | 65% | 0.5 | 13 | \$18 | 36% | 67.9 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Retail | High Bay Lighting | ROB | Fixture | 1,518 | 18% | 0.08 | 13 | \$16 | 25% | 12.3 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | ROB | Fixture | 3,510 | 65% | 0.6 | 13 | \$18 | 36% | 89.3 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Retail | High Bay Lighting | Early | Fixture | 1,518 | 1.5% | 0.01 | 13 | \$557 | 19% | 0.0 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Retail | High Bay Lighting | Early | Fixture | 1,563 | 4.3% | 0.02 | 13 | \$557 | 19% | 0.1 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | Early | Fixture | 3,510 | 57% | 0.5 | 13 | \$557 | 19% | 2.6 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Retail | High Bay Lighting | New | Fixture | 1,154 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | New | Fixture | 2,667 | 57% | 0.4 | 13 | \$88 | 19% | 12.6 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Retail | High Bay Lighting | ROB | Fixture | 1,518 | 1.5% | 0.01 | 13 | \$86 | 19% | 0.2 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | ROB | Fixture | 3,510 | 57% | 0.5 | 13 | \$88 | 19% | 16.5 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Retail | High Bay Lighting | Early | Fixture | 645 | 29% | 0.04 | 13 | \$492 | 71% | 0.2 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Retail | High Bay Lighting | Early | Fixture | 539 | 15% | 0.02 | 13 | \$492 | 95% | 0.1 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Retail | High Bay Lighting | Early | Fixture | 801 | 43% | 0.07 | 13 | \$492 | 95% | 0.5 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Retail | High Bay Lighting | Early | Fixture | 742 | 38% | 0.05 | 13 | \$492 | 95% | 0.4 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Retail | High Bay Lighting | New | Fixture | 410 | 15% | 0.01 | 13 | \$25 | 95% | 1.6 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Retail | High Bay Lighting | New | Fixture | 609 | 43% | 0.05 | 13 | \$51 | 95% | 3.3 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Retail | High Bay Lighting | ROB | Fixture | 539 | 15% | 0.02 | 13 | \$25 | 95% | 2.1 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Retail | High Bay Lighting | ROB | Fixture | 801 | 43% | 0.07 | 13 | \$51 | 95% | 4.4 |
| FE-Met Ed | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Retail | High Bay Lighting | Early | lamp | 94 | 16% | 0.00 | 11 | \$7.7 | 99% | 1.2 |
| FE-Met Ed | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Retail | High Bay Lighting | New | lamp | 56 | 13% | 0.00 | 11 | \$1.6 | 91% | 2.7 |
| FE-Met Ed | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Retail | High Bay Lighting | ROB | lamp | 91 | 13% | 0.00 | 11 | \$1.6 | 91% | 4.3 |
| FE-Met Ed | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Retail | High Bay Lighting | Early | Fixture | 3,591 | 23% | 0.2 | 13 | \$613 | 5% | 1.0 |
| FE-Met Ed | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Retail | High Bay Lighting | Early | Fixture | 2,821 | 1.6% | 0.01 | 13 | \$613 | 28% | 0.1 |
| FE-Met Ed | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | Early | Fixture | 7,019 | 60% | 1.1 | 13 | \$613 | 18% | 5.0 |
| FE-Met Ed | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Retail | High Bay Lighting | New | Fixture | 2,729 | 23% | 0.2 | 13 | \$96 | 5% | 4.7 |
| FE-Met Ed | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Retail | High Bay Lighting | ROB | Fixture | 3,591 | 23% | 0.2 | 13 | \$96 | 5% | 6.1 |
| FE-Met Ed | Auto Off Time Switch | Lighting w/ No Controls | Retail | High Bay Lighting | Existing | building | 7,677 | 24% | 0.2 | 8 | \$296 | 13% | 2.5 |
| FE-Met Ed | Auto Off Time Switch | Lighting w/ No Controls | Retail | High Bay Lighting | New | building | 7,677 | 6.9% | 0.07 | 8 | \$296 | 0% | 0.7 |
| FE-Met Ed | Central Lighting Control System | Lighting w/ No Controls | Retail | High Bay Lighting | Existing | building | 7,677 | 38% | 0.4 | 8 | \$296 | 13% | 4.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|--|---------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Central Lighting Control System | Lighting w/ No Controls | Retail | High Bay Lighting | New | building | 7,677 | 14% | 0.1 | 8 | \$296 | 13% | 1.5 |
| FE-Met Ed | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Retail | High Bay Lighting | New | building | 7,677 | 10% | 0.1 | 15 | \$29,254 | 32% | 0.0 |
| FE-Met Ed | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Retail | High Bay Lighting | New | building | 7,677 | 15% | 0.2 | 15 | \$73,134 | 32% | 0.0 |
| FE-Met Ed | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Retail | High Bay Lighting | New | building | 7,677 | 30% | 0.3 | 15 | \$104,825 | 32% | 0.0 |
| FE-Met Ed | Indoor Daylight Sensors | Lighting w/ No Controls | Retail | High Bay Lighting | Existing | building | 7,677 | 28% | 0.3 | 8 | \$1,459 | 13% | 0.6 |
| FE-Met Ed | Indoor Daylight Sensors | Lighting w/ No Controls | Retail | High Bay Lighting | New | building | 7,677 | 4.0% | 0.04 | 8 | \$1,459 | 0% | 0.1 |
| FE-Met Ed | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Retail | High Bay Lighting | Early | Fixture | 3,591 | 92% | 0.9 | 13 | \$1,916 | 95% | 1.3 |
| FE-Met Ed | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | Early | Fixture | 7,019 | 96% | 1.8 | 13 | \$1,916 | 95% | 2.5 |
| FE-Met Ed | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Retail | High Bay Lighting | New | Fixture | 2,729 | 92% | 0.7 | 13 | \$1,468 | 95% | 1.2 |
| FE-Met Ed | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | New | Fixture | 5,335 | 96% | 1.4 | 13 | \$1,149 | 95% | 3.2 |
| FE-Met Ed | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Retail | High Bay Lighting | ROB | Fixture | 3,591 | 92% | 0.9 | 13 | \$1,468 | 95% | 1.6 |
| FE-Met Ed | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | ROB | Fixture | 7,019 | 96% | 1.8 | 13 | \$1,149 | 95% | 4.3 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Retail | High Bay Lighting | Early | Fixture | 1,192 | 67% | 0.2 | 13 | \$960 | 95% | 0.6 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Retail | High Bay Lighting | Early | Fixture | 3,510 | 89% | 0.8 | 13 | \$960 | 95% | 2.3 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Retail | High Bay Lighting | Early | Fixture | 963 | 59% | 0.2 | 13 | \$960 | 95% | 0.4 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Retail | High Bay Lighting | New | Fixture | 906 | 67% | 0.2 | 13 | \$480 | 95% | 0.9 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Retail | High Bay Lighting | New | Fixture | 2,667 | 89% | 0.6 | 13 | \$491 | 95% | 3.5 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Retail | High Bay Lighting | New | Fixture | 732 | 59% | 0.1 | 13 | \$406 | 95% | 0.8 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Retail | High Bay Lighting | ROB | Fixture | 1,192 | 67% | 0.2 | 13 | \$480 | 95% | 1.2 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Retail | High Bay Lighting | ROB | Fixture | 3,510 | 89% | 0.8 | 13 | \$491 | 95% | 4.6 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Retail | High Bay Lighting | ROB | Fixture | 963 | 59% | 0.2 | 13 | \$406 | 95% | 1.0 |
| FE-Met Ed | Occupancy Sensor | Lighting w/ No Controls | Retail | High Bay Lighting | Existing | building | 7,677 | 24% | 0.2 | 8 | \$447 | 12% | 1.7 |
| FE-Met Ed | Occupancy Sensor | Lighting w/ No Controls | Retail | High Bay Lighting | New | building | 7,677 | 6.9% | 0.07 | 8 | \$447 | 0% | 0.5 |
| FE-Met Ed | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Retail | High Bay Lighting | Existing | building | 7,677 | 28% | 0.3 | 8 | \$1,459 | 12% | 0.6 |
| FE-Met Ed | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Retail | High Bay Lighting | New | building | 7,677 | 4.0% | 0.04 | 8 | \$1,459 | 0% | 0.1 |
| FE-Met Ed | Time Clock Control | Lighting w/ No Controls | Retail | High Bay Lighting | Existing | building | 7,677 | 28% | 0.3 | 8 | \$296 | 13% | 3.0 |
| FE-Met Ed | Time Clock Control | Lighting w/ No Controls | Retail | High Bay Lighting | New | building | 7,677 | 4.0% | 0.04 | 8 | \$296 | 0% | 0.4 |
| FE-Met Ed | Auto Off Time Switch | Lighting w/ No Controls | Retail | Lin. Fluor. Lighting | Existing | building | 15,232 | 24% | 0.2 | 8 | \$296 | 13% | 4.5 |
| FE-Met Ed | Auto Off Time Switch | Lighting w/ No Controls | Retail | Lin. Fluor. Lighting | New | building | 15,232 | 7.0% | 0.07 | 8 | \$296 | 0% | 1.3 |
| FE-Met Ed | Central Lighting Control System | Lighting w/ No Controls | Retail | Lin. Fluor. Lighting | Existing | building | 15,232 | 38% | 0.4 | 8 | \$296 | 12% | 7.2 |
| FE-Met Ed | Central Lighting Control System | Lighting w/ No Controls | Retail | Lin. Fluor. Lighting | New | building | 15,232 | 14% | 0.1 | 8 | \$296 | 12% | 2.7 |
| FE-Met Ed | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Retail | Lin. Fluor. Lighting | New | building | 15,232 | 10% | 0.1 | 15 | \$29,254 | 32% | 0.0 |
| FE-Met Ed | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Retail | Lin. Fluor. Lighting | New | building | 15,232 | 15% | 0.2 | 15 | \$73,134 | 32% | 0.0 |
| FE-Met Ed | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Retail | Lin. Fluor. Lighting | New | building | 15,232 | 30% | 0.3 | 15 | \$104,825 | 32% | 0.0 |
| FE-Met Ed | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Retail | Lin. Fluor. Lighting | Early | Lamp | 190 | 38% | 0.02 | 11 | \$7.3 | 94% | 5.8 |
| FE-Met Ed | Indoor Daylight Sensors | Lighting w/ No Controls | Retail | Lin. Fluor. Lighting | Existing | building | 15,232 | 28% | 0.3 | 8 | \$1,459 | 13% | 1.1 |
| FE-Met Ed | Indoor Daylight Sensors | Lighting w/ No Controls | Retail | Lin. Fluor. Lighting | New | building | 15,232 | 4.1% | 0.04 | 8 | \$1,459 | 0% | 0.2 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Retail | Lin. Fluor. Lighting | Early | Lamp | 72 | 19% | 0.00 | 15 | \$35 | 94% | 0.3 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 40W T12 Lamp, Magnetic Ballast | Retail | Lin. Fluor. Lighting | Early | Lamp | 158 | 63% | 0.03 | 15 | \$35 | 94% | 2.4 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Retail | Lin. Fluor. Lighting | Early | Lamp | 89 | 34% | 0.01 | 15 | \$35 | 94% | 0.7 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Retail | Lin. Fluor. Lighting | Early | Lamp | 86 | 32% | 0.01 | 15 | \$35 | 94% | 0.7 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Retail | Lin. Fluor. Lighting | New | Lamp | 55 | 19% | 0.00 | 15 | \$28 | 94% | 0.3 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Retail | Lin. Fluor. Lighting | New | Lamp | 65 | 32% | 0.01 | 15 | \$29 | 94% | 0.6 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Retail | Lin. Fluor. Lighting | New | Lamp | 67 | 34% | 0.01 | 15 | \$22 | 94% | 0.9 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Retail | Lin. Fluor. Lighting | New | Lamp | 65 | 32% | 0.01 | 15 | \$29 | 94% | 0.6 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Retail | Lin. Fluor. Lighting | ROB | Lamp | 72 | 19% | 0.00 | 15 | \$28 | 94% | 0.4 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Retail | Lin. Fluor. Lighting | ROB | Lamp | 86 | 32% | 0.01 | 15 | \$29 | 94% | 0.8 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Retail | Lin. Fluor. Lighting | ROB | Lamp | 89 | 34% | 0.01 | 15 | \$22 | 94% | 1.2 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Retail | Lin. Fluor. Lighting | ROB | Lamp | 86 | 32% | 0.01 | 15 | \$29 | 94% | 0.8 |
| FE-Met Ed | Occupancy Sensor | Lighting w/ No Controls | Retail | Lin. Fluor. Lighting | Existing | building | 15,232 | 24% | 0.2 | 8 | \$447 | 13% | 3.0 |
| FE-Met Ed | Occupancy Sensor | Lighting w/ No Controls | Retail | Lin. Fluor. Lighting | New | building | 15,232 | 6.9% | 0.07 | 8 | \$447 | 0% | 0.9 |
| FE-Met Ed | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Retail | Lin. Fluor. Lighting | Existing | building | 15,232 | 28% | 0.3 | 8 | \$1,459 | 12% | 1.1 |
| FE-Met Ed | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Retail | Lin. Fluor. Lighting | New | building | 15,232 | 4.1% | 0.04 | 8 | \$1,459 | 0% | 0.2 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 40W T12 w/ Magnetic Ballast | Retail | Lin. Fluor. Lighting | Early | Lamp | 190 | 54% | 0.02 | 11 | \$9.1 | 94% | 6.6 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Retail | Lin. Fluor. Lighting | Early | Lamp | 121 | 28% | 0.01 | 11 | \$9.1 | 24% | 2.2 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Retail | Lin. Fluor. Lighting | Early | Lamp | 118 | 26% | 0.01 | 11 | \$9.1 | 94% | 2.0 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Retail | Lin. Fluor. Lighting | New | Lamp | 89 | 26% | 0.00 | 11 | \$2.5 | 94% | 5.4 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Retail | Lin. Fluor. Lighting | New | Lamp | 89 | 26% | 0.00 | 11 | \$2.5 | 94% | 5.4 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Retail | Lin. Fluor. Lighting | New | Lamp | 92 | 28% | 0.01 | 11 | \$2.5 | 24% | 6.1 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Retail | Lin. Fluor. Lighting | New | Lamp | 89 | 26% | 0.00 | 11 | \$2.5 | 94% | 5.4 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Retail | Lin. Fluor. Lighting | ROB | Lamp | 118 | 26% | 0.01 | 11 | \$2.5 | 94% | 7.1 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Retail | Lin. Fluor. Lighting | ROB | Lamp | 118 | 26% | 0.01 | 11 | \$2.5 | 94% | 7.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|--|---------|---------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | 50 HP Motor, Ultra-PE | 50 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | ROB | motor | 135,861 | 0.5% | 0.09 | 15 | \$273 | 79% | 1.8 |
| FE-Met Ed | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | Early | motor | 164,281 | 1.8% | 0.4 | 15 | \$4,430 | 70% | 0.4 |
| FE-Met Ed | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | Early | motor | 164,281 | 1.8% | 0.4 | 15 | \$4,430 | 70% | 0.4 |
| FE-Met Ed | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | Early | motor | 164,281 | 1.8% | 0.4 | 15 | \$4,430 | 70% | 0.4 |
| FE-Met Ed | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | Early | motor | 164,281 | 1.8% | 0.4 | 15 | \$4,430 | 70% | 0.5 |
| FE-Met Ed | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | Early | motor | 164,281 | 1.8% | 0.4 | 15 | \$4,430 | 70% | 0.4 |
| FE-Met Ed | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | New | motor | 162,175 | 0.5% | 0.1 | 15 | \$431 | 70% | 1.3 |
| FE-Met Ed | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | New | motor | 162,175 | 0.5% | 0.1 | 15 | \$431 | 70% | 1.3 |
| FE-Met Ed | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | New | motor | 162,175 | 0.5% | 0.1 | 15 | \$431 | 70% | 1.4 |
| FE-Met Ed | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | New | motor | 162,175 | 0.5% | 0.1 | 15 | \$431 | 70% | 1.4 |
| FE-Met Ed | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | ROB | motor | 162,175 | 0.5% | 0.1 | 15 | \$431 | 70% | 1.3 |
| FE-Met Ed | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | ROB | motor | 162,175 | 0.5% | 0.1 | 15 | \$431 | 70% | 1.3 |
| FE-Met Ed | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | ROB | motor | 162,175 | 0.5% | 0.1 | 15 | \$431 | 70% | 1.4 |
| FE-Met Ed | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | ROB | motor | 162,175 | 0.5% | 0.1 | 15 | \$431 | 70% | 1.4 |
| FE-Met Ed | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | ROB | motor | 162,175 | 0.6% | 0.1 | 15 | \$431 | 70% | 1.4 |
| FE-Met Ed | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | Early | motor | 21,681 | 2.9% | 0.08 | 15 | \$802 | 83% | 0.5 |
| FE-Met Ed | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | Early | motor | 21,681 | 2.9% | 0.08 | 15 | \$802 | 83% | 0.5 |
| FE-Met Ed | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | Early | motor | 21,681 | 2.9% | 0.09 | 15 | \$802 | 83% | 0.6 |
| FE-Met Ed | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | Early | motor | 21,681 | 2.9% | 0.08 | 15 | \$802 | 83% | 0.5 |
| FE-Met Ed | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | New | motor | 21,163 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.6 |
| FE-Met Ed | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | New | motor | 21,163 | 0.5% | 0.01 | 15 | \$123 | 83% | 0.6 |
| FE-Met Ed | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | New | motor | 21,163 | 0.6% | 0.01 | 15 | \$123 | 83% | 0.6 |
| FE-Met Ed | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | New | motor | 21,163 | 0.6% | 0.02 | 15 | \$123 | 83% | 0.7 |
| FE-Met Ed | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | ROB | motor | 21,163 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.6 |
| FE-Met Ed | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | ROB | motor | 21,163 | 0.5% | 0.01 | 15 | \$123 | 83% | 0.6 |
| FE-Met Ed | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | ROB | motor | 21,163 | 0.6% | 0.01 | 15 | \$123 | 83% | 0.6 |
| FE-Met Ed | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | ROB | motor | 21,163 | 0.6% | 0.02 | 15 | \$123 | 83% | 0.7 |
| FE-Met Ed | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | ROB | motor | 21,163 | 0.6% | 0.01 | 15 | \$123 | 83% | 0.6 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | Early | motor | 204,403 | 1.3% | 0.4 | 15 | \$3,955 | 61% | 0.5 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | Early | motor | 204,403 | 1.3% | 0.4 | 15 | \$3,955 | 61% | 0.5 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | Early | motor | 204,403 | 1.3% | 0.4 | 15 | \$3,955 | 61% | 0.5 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | Early | motor | 204,403 | 1.3% | 0.4 | 15 | \$3,955 | 61% | 0.5 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | New | motor | 202,719 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.3 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | New | motor | 202,719 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.3 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | New | motor | 202,719 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.3 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | New | motor | 202,719 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.4 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | New | motor | 202,719 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.3 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | ROB | motor | 202,719 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.3 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | ROB | motor | 202,719 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.3 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | ROB | motor | 202,719 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.4 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | ROB | motor | 202,719 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.3 |
| FE-Met Ed | ASD HVAC Fan | Std. HVAC Fan | Retail | Motors | New | measure | 3,330 | 9.1% | 0.03 | 15 | \$8,846 | 85% | 0.0 |
| FE-Met Ed | ASD HVAC Fan | Std. HVAC Fan | Retail | Motors | ROB | measure | 3,330 | 9.1% | 0.03 | 15 | \$8,846 | 85% | 0.0 |
| FE-Met Ed | CO sensors for parking garage exhaust fans | No CO Sensors | Retail | Motors | Existing | building | 792 | 45% | 0.5 | 8 | \$79 | 4% | 4.9 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Retail | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 23.1 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Retail | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 23.3 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Retail | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 23.9 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Retail | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 24.5 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Retail | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 24.7 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Retail | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 22.8 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Retail | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 23.6 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Retail | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 23.8 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Retail | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 24.6 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Retail | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 24.8 |
| FE-Met Ed | Escalator Motor Controller | Constant power control | Retail | Motors | New | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 67% | 6.3 |
| FE-Met Ed | Escalator Motor Controller | Constant power control | Retail | Motors | ROB | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 67% | 6.3 |
| FE-Met Ed | Variable Speed Drive Control, 15HP | Existing Motors w/out VSD Drive | Retail | Motors | Early | motor | 42,326 | 70% | 4.4 | 15 | \$731 | 86% | 28.4 |
| FE-Met Ed | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Retail | Motors | New | motor | 41,416 | 72% | 4.4 | 15 | \$731 | 86% | 28.4 |
| FE-Met Ed | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Retail | Motors | ROB | motor | 41,416 | 72% | 4.4 | 15 | \$731 | 86% | 28.4 |
| FE-Met Ed | Variable Speed Drive Control, 40HP | Existing Motors w/out VSD Drive | Retail | Motors | Early | motor | 110,442 | 71% | 11.5 | 15 | \$4,666 | 86% | 11.7 |
| FE-Met Ed | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Retail | Motors | New | motor | 109,151 | 72% | 11.5 | 15 | \$4,666 | 86% | 11.7 |
| FE-Met Ed | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Retail | Motors | ROB | motor | 109,151 | 72% | 11.5 | 15 | \$4,666 | 86% | 11.7 |
| FE-Met Ed | Variable Speed Drive Control, 5HP | Existing Motors w/out VFD Drive | Retail | Motors | Early | motor | 14,673 | 72% | 1.5 | 15 | \$2,243 | 86% | 3.3 |
| FE-Met Ed | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Retail | Motors | New | motor | 14,345 | 72% | 1.5 | 15 | \$2,243 | 86% | 3.2 |
| FE-Met Ed | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Retail | Motors | ROB | motor | 14,345 | 72% | 1.5 | 15 | \$2,243 | 86% | 3.2 |
| FE-Met Ed | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Retail | Motors | Early | motor | 3,501 | 32% | 0.1 | 15 | \$268 | 13% | 2.8 |
| FE-Met Ed | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Retail | Motors | New | motor | 3,501 | 32% | 0.1 | 15 | \$268 | 13% | 2.8 |
| FE-Met Ed | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Retail | Motors | ROB | motor | 3,501 | 32% | 0.1 | 15 | \$268 | 13% | 2.8 |
| FE-Met Ed | VFD on Chilled Water Pump | Motor w/out VFD Drive | Retail | Motors | Early | motor | 28,370 | 55% | 2.7 | 15 | \$2,903 | 86% | 3.8 |
| FE-Met Ed | VFD on Chilled Water Pump | Motor w/out VFD Drive | Retail | Motors | New | motor | 27,840 | 55% | 2.7 | 15 | \$2,843 | 86% | 3.8 |
| FE-Met Ed | VFD on Chilled Water Pump | Motor w/out VFD Drive | Retail | Motors | ROB | motor | 27,840 | 55% | 2.7 | 15 | \$2,843 | 86% | 3.8 |
| FE-Met Ed | VFD on Condenser Water Pump | Motor w/out VFD Drive | Retail | Motors | Early | motor | 29,290 | 32% | 3.2 | 15 | \$2,903 | 86% | 2.8 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|--|---------|---------------------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | VFD on Condenser Water Pump | Motor w/out VFD Drive | Retail | Motors | New | motor | 28,742 | 33% | 3.1 | 15 | \$2,843 | 86% | 2.9 |
| FE-Met Ed | VFD on Condenser Water Pump | Motor w/out VFD Drive | Retail | Motors | ROB | motor | 28,742 | 33% | 3.1 | 15 | \$2,843 | 86% | 2.9 |
| FE-Met Ed | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Retail | Motors | Early | motor | 23,552 | 56% | 0.00 | 15 | \$2,903 | 86% | 2.5 |
| FE-Met Ed | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Retail | Motors | New | motor | 23,111 | 57% | 0.00 | 15 | \$2,843 | 86% | 2.5 |
| FE-Met Ed | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Retail | Motors | ROB | motor | 23,111 | 57% | 0.00 | 15 | \$2,843 | 86% | 2.5 |
| FE-Met Ed | VFD on HVAC Fan | Motor w/out VFD | Retail | Motors | Early | motor | 29,667 | 70% | 3.4 | 15 | \$2,903 | 86% | 5.1 |
| FE-Met Ed | VFD on HVAC Fan | Motor w/out VFD | Retail | Motors | New | motor | 29,112 | 72% | 3.3 | 15 | \$2,843 | 86% | 5.2 |
| FE-Met Ed | VFD on HVAC Fan | Motor w/out VFD | Retail | Motors | ROB | motor | 29,112 | 72% | 3.3 | 15 | \$2,843 | 86% | 5.2 |
| FE-Met Ed | Elevators | Std. Eff Elevator | Retail | Other | ROB | measure | 89,016 | 0.6% | 0.07 | 15 | \$126 | 63% | 2.8 |
| FE-Met Ed | Variable Speed Drives on Process Equipment | Constant speed control | Retail | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 11.3 |
| FE-Met Ed | Variable Speed Drives on Process Equipment | Constant speed control | Retail | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 11.3 |
| FE-Met Ed | Auto Off Time Switch | Lighting w/ No Controls | Retail | Other Int. Lighting | Existing | building | 2,523 | 24% | 0.2 | 8 | \$296 | 13% | 1.2 |
| FE-Met Ed | Auto Off Time Switch | Lighting w/ No Controls | Retail | Other Int. Lighting | New | building | 2,523 | 7.0% | 0.07 | 8 | \$296 | 0% | 0.3 |
| FE-Met Ed | Central Lighting Control System | Lighting w/ No Controls | Retail | Other Int. Lighting | Existing | building | 2,523 | 38% | 0.4 | 8 | \$296 | 13% | 1.8 |
| FE-Met Ed | Central Lighting Control System | Lighting w/ No Controls | Retail | Other Int. Lighting | New | building | 2,523 | 14% | 0.1 | 8 | \$296 | 13% | 0.7 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 40W Incandescent Bulb | Retail | Other Int. Lighting | Early | lamp | 167 | 87% | 0.04 | 9 | \$30 | 14% | 2.6 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Retail | Other Int. Lighting | Early | lamp | 119 | 81% | 0.03 | 9 | \$30 | 11% | 1.8 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Retail | Other Int. Lighting | New | lamp | 91 | 81% | 0.02 | 9 | \$21 | 14% | 1.9 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Retail | Other Int. Lighting | New | lamp | 91 | 81% | 0.02 | 9 | \$23 | 14% | 1.8 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Retail | Other Int. Lighting | New | lamp | 91 | 81% | 0.02 | 9 | \$22 | 11% | 1.8 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Retail | Other Int. Lighting | ROB | lamp | 119 | 81% | 0.03 | 9 | \$21 | 14% | 2.5 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Retail | Other Int. Lighting | ROB | lamp | 119 | 81% | 0.03 | 9 | \$23 | 14% | 2.3 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Retail | Other Int. Lighting | ROB | lamp | 119 | 81% | 0.03 | 9 | \$22 | 11% | 2.4 |
| FE-Met Ed | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Retail | Other Int. Lighting | Early | lamp | 167 | 75% | 0.03 | 3 | \$73 | 24% | 0.4 |
| FE-Met Ed | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Retail | Other Int. Lighting | New | fixture | 181 | 65% | 0.03 | 13 | \$29 | 28% | 3.0 |
| FE-Met Ed | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Retail | Other Int. Lighting | New | lamp | 91 | 65% | 0.02 | 3 | \$29 | 28% | 0.4 |
| FE-Met Ed | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Retail | Other Int. Lighting | ROB | fixture | 239 | 65% | 0.04 | 13 | \$29 | 24% | 4.0 |
| FE-Met Ed | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Retail | Other Int. Lighting | ROB | lamp | 119 | 65% | 0.02 | 3 | \$29 | 24% | 0.6 |
| FE-Met Ed | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Retail | Other Int. Lighting | Early | lamp | 167 | 75% | 0.03 | 3 | \$3.2 | 24% | 8.2 |
| FE-Met Ed | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Retail | Other Int. Lighting | New | lamp | 91 | 65% | 0.02 | 3 | \$1.8 | 24% | 7.0 |
| FE-Met Ed | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Retail | Other Int. Lighting | ROB | lamp | 119 | 65% | 0.02 | 3 | \$1.8 | 24% | 9.2 |
| FE-Met Ed | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Retail | Other Int. Lighting | ROB | lamp | 119 | 65% | 0.02 | 3 | \$1.8 | 24% | 9.2 |
| FE-Met Ed | Exit Sign Retrofit: CFL replacing Incandescent | One 23W Single Sided Incandescent Exit Sign | Retail | Other Int. Lighting | Early | exit sign | 130 | 42% | 0.01 | 15 | \$48 | 22% | 0.8 |
| FE-Met Ed | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Retail | Other Int. Lighting | New | building | 2,523 | 10% | 0.1 | 15 | \$29,254 | 32% | 0.0 |
| FE-Met Ed | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Retail | Other Int. Lighting | New | building | 2,523 | 15% | 0.2 | 15 | \$73,134 | 32% | 0.0 |
| FE-Met Ed | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Retail | Other Int. Lighting | New | building | 2,523 | 30% | 0.3 | 15 | \$104,825 | 32% | 0.0 |
| FE-Met Ed | Indoor Daylight Sensors | Lighting w/ No Controls | Retail | Other Int. Lighting | Existing | building | 2,523 | 28% | 0.3 | 8 | \$1,459 | 13% | 0.3 |
| FE-Met Ed | Indoor Daylight Sensors | Lighting w/ No Controls | Retail | Other Int. Lighting | New | building | 2,523 | 4.1% | 0.04 | 8 | \$1,459 | 0% | 0.0 |
| FE-Met Ed | LED Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Retail | Other Int. Lighting | Early | sign | 153 | 87% | 0.02 | 15 | \$48 | 16% | 1.9 |
| FE-Met Ed | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Retail | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 2.1 |
| FE-Met Ed | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Retail | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 2.1 |
| FE-Met Ed | LED Task Lighting/Screw-In | 1 15W CFL bulb | Retail | Other Int. Lighting | Early | lamp | 34 | 33% | 0.00 | 10 | \$9.6 | 24% | 0.7 |
| FE-Met Ed | LED Task Lighting/Screw-In | 1 60W Incandescent Bulb | Retail | Other Int. Lighting | Early | lamp | 136 | 83% | 0.03 | 10 | \$9.6 | 24% | 7.1 |
| FE-Met Ed | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Retail | Other Int. Lighting | New | lamp | 74 | 77% | 0.02 | 10 | \$7.9 | 24% | 4.3 |
| FE-Met Ed | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Retail | Other Int. Lighting | New | lamp | 74 | 77% | 0.02 | 10 | \$7.9 | 24% | 4.3 |
| FE-Met Ed | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Retail | Other Int. Lighting | ROB | lamp | 98 | 77% | 0.02 | 10 | \$7.9 | 24% | 5.7 |
| FE-Met Ed | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Retail | Other Int. Lighting | ROB | lamp | 98 | 77% | 0.02 | 10 | \$7.9 | 24% | 5.7 |
| FE-Met Ed | Occupancy Sensor | Lighting w/ No Controls | Retail | Other Int. Lighting | Existing | building | 2,523 | 24% | 0.2 | 8 | \$447 | 12% | 0.8 |
| FE-Met Ed | Occupancy Sensor | Lighting w/ No Controls | Retail | Other Int. Lighting | New | building | 2,523 | 7.0% | 0.07 | 8 | \$447 | 0% | 0.2 |
| FE-Met Ed | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Retail | Other Int. Lighting | Existing | building | 2,523 | 28% | 0.3 | 8 | \$1,459 | 12% | 0.3 |
| FE-Met Ed | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Retail | Other Int. Lighting | New | building | 2,523 | 4.1% | 0.04 | 8 | \$1,459 | 0% | 0.0 |
| FE-Met Ed | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Retail | Other Int. Lighting | Early | exit sign | 130 | 100% | 0.02 | 15 | \$173 | 26% | 0.5 |
| FE-Met Ed | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Retail | Other Int. Lighting | New | exit sign | 75 | 100% | 0.01 | 15 | \$148 | 31% | 0.4 |
| FE-Met Ed | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Retail | Other Int. Lighting | ROB | exit sign | 75 | 100% | 0.01 | 15 | \$148 | 26% | 0.4 |
| FE-Met Ed | Time Clock Control | Lighting w/ No Controls | Retail | Other Int. Lighting | Existing | building | 2,523 | 28% | 0.3 | 8 | \$296 | 13% | 1.4 |
| FE-Met Ed | Time Clock Control | Lighting w/ No Controls | Retail | Other Int. Lighting | New | building | 2,523 | 4.1% | 0.04 | 8 | \$296 | 0% | 0.2 |
| FE-Met Ed | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Retail | Plug Load | Existing | building | 920 | 46% | 0.5 | 5 | \$189 | 4% | 1.5 |
| FE-Met Ed | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Retail | Plug Load | New | building | 920 | 46% | 0.5 | 5 | \$189 | 4% | 1.5 |
| FE-Met Ed | Data Center - Server/Storage Consolidation | No Consolidation | Retail | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Met Ed | Data Center - Server/Storage Consolidation | No Consolidation | Retail | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Met Ed | Data Center - Server/Storage Virtualization | No Virtualization | Retail | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Met Ed | Data Center - Server/Storage Virtualization | No Virtualization | Retail | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Met Ed | Energy Star - Scanners | Std Scanner | Retail | Plug Load | New | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| FE-Met Ed | Energy Star - Scanners | Std Scanner | Retail | Plug Load | ROB | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| FE-Met Ed | Energy Star Battery Charging System (for small cordless products) | Std. Battery Charging System | Retail | Plug Load | ROB | measure | 593 | 2.3% | 0.1 | 5 | \$65 | 4% | 0.7 |
| FE-Met Ed | Energy Star Dishwasher | Existing Dishwasher units | Retail | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,580 | 1% | 1.1 |
| FE-Met Ed | Energy Star Dishwasher | Standard Dishwasher unit | Retail | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 1% | 3.5 |
| FE-Met Ed | Energy Star Dishwasher | Standard Dishwasher unit | Retail | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 1% | 3.5 |
| FE-Met Ed | Energy Star External Power Adapter | Std. Power Adapter | Retail | Plug Load | New | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|--|---|---------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Energy Star External Power Adapter | Std. Power Adapter | Retail | Plug Load | ROB | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| FE-Met Ed | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Retail | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 17% | 0.2 |
| FE-Met Ed | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Retail | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.1 |
| FE-Met Ed | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Retail | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.1 |
| FE-Met Ed | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Retail | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 9% | 0.8 |
| FE-Met Ed | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Retail | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.7 |
| FE-Met Ed | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Retail | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.7 |
| FE-Met Ed | ENERGY STAR® Copiers | 10% Less Efficient Copier | Retail | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 18% | 0.0 |
| FE-Met Ed | ENERGY STAR® Copiers | One Conventional Copier | Retail | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| FE-Met Ed | ENERGY STAR® Copiers | One Conventional Copier | Retail | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| FE-Met Ed | ENERGY STAR® desktop | Standard computer | Retail | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 69% | 0.1 |
| FE-Met Ed | ENERGY STAR® desktop | Standard computer | Retail | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.4 |
| FE-Met Ed | ENERGY STAR® desktop | Standard computer | Retail | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.4 |
| FE-Met Ed | ENERGY STAR® Fax | 10% Less Efficient Fax | Retail | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 15% | 0.0 |
| FE-Met Ed | ENERGY STAR® Fax | One Conventional Fax | Retail | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| FE-Met Ed | ENERGY STAR® Fax | One Conventional Fax | Retail | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| FE-Met Ed | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Retail | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 70% | 0.0 |
| FE-Met Ed | ENERGY STAR® Monitors | One Conventional Monitor | Retail | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| FE-Met Ed | ENERGY STAR® Monitors | One Conventional Monitor | Retail | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| FE-Met Ed | ENERGY STAR® Printers | 10% Less Efficient Printer | Retail | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 44% | 0.0 |
| FE-Met Ed | ENERGY STAR® Printers | One Conventional Printer | Retail | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.4 |
| FE-Met Ed | ENERGY STAR® Printers | One Conventional Printer | Retail | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.4 |
| FE-Met Ed | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Retail | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 43% | 0.1 |
| FE-Met Ed | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Retail | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.8 |
| FE-Met Ed | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Retail | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.8 |
| FE-Met Ed | ENERGY STAR® Televisions | 10% Less Efficient Television | Retail | Plug Load | Early | Unit | 228 | 38% | 0.02 | 6 | \$672 | 40% | 0.0 |
| FE-Met Ed | ENERGY STAR® Televisions | One Conventional Television | Retail | Plug Load | New | Unit | 207 | 32% | 0.02 | 6 | \$206 | 40% | 0.1 |
| FE-Met Ed | ENERGY STAR® Televisions | One Conventional Television | Retail | Plug Load | ROB | Unit | 207 | 32% | 0.02 | 6 | \$206 | 40% | 0.1 |
| FE-Met Ed | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Retail | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 24% | 0.3 |
| FE-Met Ed | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Retail | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.7 |
| FE-Met Ed | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Retail | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.7 |
| FE-Met Ed | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Retail | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.3 |
| FE-Met Ed | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Retail | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.3 |
| FE-Met Ed | Network PC Power Management | No PC Power Management | Retail | Plug Load | Existing | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 7.1 |
| FE-Met Ed | Network PC Power Management | No PC Power Management | Retail | Plug Load | New | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 7.1 |
| FE-Met Ed | Smart Strip Plug Outlets | Standard plug strip/outlet | Retail | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.5 |
| FE-Met Ed | Smart Strip Plug Outlets | Standard plug strip/outlet | Retail | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.5 |
| FE-Met Ed | Smart Strip Plug Outlets | Standard plug strip/outlet | Retail | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Met Ed | Smart Strip Plug Outlets | Standard plug strip/outlet | Retail | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Met Ed | Smart Strip Plug Outlets | Standard plug strip/outlet | Retail | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Met Ed | Smart Strip Plug Outlets | Standard plug strip/outlet | Retail | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Met Ed | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Retail | Plug Load | Existing | building | 920 | 46% | 0.5 | 5 | \$180 | 3% | 1.5 |
| FE-Met Ed | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Retail | Plug Load | New | building | 920 | 46% | 0.5 | 5 | \$180 | 3% | 1.5 |
| FE-Met Ed | Air curtain technology | Strip plastic curtain | Retail | Refrigeration | New | building | 6,271 | 6.8% | 0.07 | 8 | \$744 | 35% | 0.2 |
| FE-Met Ed | Air curtain technology | Strip plastic curtain | Retail | Refrigeration | New | building | 3,649 | 6.8% | 0.07 | 8 | \$749 | 35% | 0.2 |
| FE-Met Ed | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Retail | Refrigeration | Existing | building | 1,026 | 7.7% | 0.08 | 12 | \$70 | 11% | 1.4 |
| FE-Met Ed | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Retail | Refrigeration | New | building | 1,026 | 7.7% | 0.08 | 12 | \$70 | 11% | 1.4 |
| FE-Met Ed | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Retail | Refrigeration | Existing | building | 1,026 | 9.7% | 0.10 | 12 | \$70 | 11% | 1.8 |
| FE-Met Ed | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Retail | Refrigeration | New | building | 1,026 | 9.7% | 0.10 | 12 | \$70 | 11% | 1.8 |
| FE-Met Ed | Auto Closer on Refrigerator Door | Door w/out Autocloser | Retail | Refrigeration | Existing | building | 3,649 | 31% | 0.3 | 8 | \$963 | 40% | 0.6 |
| FE-Met Ed | Auto Closer on Refrigerator Door | Door w/out Autocloser | Retail | Refrigeration | Existing | building | 6,271 | 13% | 0.1 | 8 | \$728 | 40% | 0.5 |
| FE-Met Ed | Auto Closer on Refrigerator Door | Door w/out Autocloser | Retail | Refrigeration | New | building | 3,649 | 31% | 0.3 | 8 | \$963 | 40% | 0.6 |
| FE-Met Ed | Auto Closer on Refrigerator Door | Door w/out Autocloser | Retail | Refrigeration | New | building | 6,271 | 13% | 0.1 | 8 | \$728 | 40% | 0.5 |
| FE-Met Ed | Demand Hot Gas Defrost | Base Refrigeration System | Retail | Refrigeration | Existing | measure | 1,026 | 3.0% | 0.03 | 10 | \$1,334 | 0% | 0.0 |
| FE-Met Ed | Demand Hot Gas Defrost | Base Refrigeration System | Retail | Refrigeration | New | measure | 1,026 | 3.0% | 0.03 | 10 | \$1,334 | 0% | 0.0 |
| FE-Met Ed | Door Gasket- Freezer | Door w/out Gasket | Retail | Refrigeration | Existing | building | 3,649 | 17% | 0.2 | 4 | \$99 | 29% | 1.6 |
| FE-Met Ed | Door Gasket- Freezer | Door w/out Gasket | Retail | Refrigeration | New | building | 3,649 | 11% | 0.1 | 4 | \$99 | 29% | 1.1 |
| FE-Met Ed | Door Gasket- Refrigerator | Door w/out Gasket | Retail | Refrigeration | Existing | building | 6,271 | 4.1% | 0.04 | 4 | \$101 | 45% | 0.6 |
| FE-Met Ed | Door Gasket- Refrigerator | Door w/out Gasket | Retail | Refrigeration | New | building | 6,271 | 4.1% | 0.04 | 4 | \$101 | 45% | 0.6 |
| FE-Met Ed | Economizer for Walk-in Coolers | No Economizer | Retail | Refrigeration | Early | measure | 11,267 | 6.6% | 0.1 | 10 | \$131 | 72% | 2.7 |
| FE-Met Ed | Economizer for Walk-in Coolers | No Economizer | Retail | Refrigeration | Early | measure | 11,267 | 6.6% | 0.1 | 10 | \$131 | 72% | 2.7 |
| FE-Met Ed | Economizer for Walk-in Coolers | No Economizer | Retail | Refrigeration | Early | measure | 11,267 | 6.6% | 0.1 | 10 | \$131 | 72% | 2.7 |
| FE-Met Ed | Economizer for Walk-in Coolers | No Economizer | Retail | Refrigeration | New | measure | 11,267 | 6.6% | 0.1 | 10 | \$15 | 72% | 23.1 |
| FE-Met Ed | Economizer for Walk-in Coolers | No Economizer | Retail | Refrigeration | New | measure | 11,267 | 6.6% | 0.1 | 10 | \$15 | 72% | 23.2 |
| FE-Met Ed | Economizer for Walk-in Coolers | No Economizer | Retail | Refrigeration | New | measure | 11,267 | 6.6% | 0.1 | 10 | \$15 | 72% | 23.2 |
| FE-Met Ed | Economizer for Walk-in Coolers | No Economizer | Retail | Refrigeration | ROB | measure | 11,267 | 6.6% | 0.1 | 10 | \$15 | 72% | 23.1 |
| FE-Met Ed | Economizer for Walk-in Coolers | No Economizer | Retail | Refrigeration | ROB | measure | 11,267 | 6.6% | 0.1 | 10 | \$15 | 72% | 23.2 |
| FE-Met Ed | Economizer for Walk-in Coolers | No Economizer | Retail | Refrigeration | ROB | measure | 11,267 | 6.6% | 0.1 | 10 | \$15 | 72% | 23.2 |
| FE-Met Ed | eCube | Refrigeration unit w/out eCube | Retail | Refrigeration | Existing | building | 6,271 | 15% | 0.2 | 15 | \$413 | 57% | 1.6 |
| FE-Met Ed | eCube | Refrigeration unit w/out eCube | Retail | Refrigeration | New | building | 6,271 | 15% | 0.2 | 15 | \$413 | 57% | 1.6 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|--|---------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Efficient compressor motor | Base Refrigeration System - Grocery | Retail | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| FE-Met Ed | Efficient compressor motor | Base Refrigeration System - Grocery | Retail | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| FE-Met Ed | Efficient compressor motor | Base Refrigeration System - Grocery | Retail | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| FE-Met Ed | Efficient compressor motor | Base Refrigeration System - Grocery | Retail | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| FE-Met Ed | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Retail | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.6 |
| FE-Met Ed | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Retail | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| FE-Met Ed | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Retail | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| FE-Met Ed | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Retail | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.3 |
| FE-Met Ed | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Retail | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.8 |
| FE-Met Ed | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Retail | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.8 |
| FE-Met Ed | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Retail | Refrigeration | Existing | building | 6,271 | 1.5% | 0.02 | 10 | \$369 | 77% | 0.1 |
| FE-Met Ed | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Retail | Refrigeration | New | building | 6,271 | 1.5% | 0.02 | 10 | \$369 | 77% | 0.1 |
| FE-Met Ed | Floating head pressure controller | System w/out FHPC | Retail | Refrigeration | Existing | building | 3,649 | 6.2% | 0.02 | 15 | \$8,682 | 41% | 0.0 |
| FE-Met Ed | Floating head pressure controller | System w/out FHPC | Retail | Refrigeration | Existing | building | 1,026 | 9.2% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-Met Ed | Floating head pressure controller | System w/out FHPC | Retail | Refrigeration | Existing | building | 6,271 | 1.2% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-Met Ed | Floating head pressure controller | System w/out FHPC | Retail | Refrigeration | New | building | 3,649 | 6.2% | 0.02 | 15 | \$8,682 | 41% | 0.0 |
| FE-Met Ed | Floating head pressure controller | System w/out FHPC | Retail | Refrigeration | New | building | 1,026 | 9.2% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-Met Ed | Floating head pressure controller | System w/out FHPC | Retail | Refrigeration | New | building | 6,271 | 1.2% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-Met Ed | High Efficiency Commercial Freezer | Std. Commercial Freezer | Retail | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 86% | 0.3 |
| FE-Met Ed | High Efficiency Commercial Freezer | Std. Commercial Freezer | Retail | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 4.1 |
| FE-Met Ed | High Efficiency Commercial Freezer | Std. Commercial Freezer | Retail | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 4.1 |
| FE-Met Ed | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Retail | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 2% | 0.1 |
| FE-Met Ed | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Retail | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.9 |
| FE-Met Ed | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Retail | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.9 |
| FE-Met Ed | High Efficiency Ice Maker | Existing Standard Efficiency Ice Maker in Pennsylvania | Retail | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 73% | 0.2 |
| FE-Met Ed | High Efficiency Ice Maker | Standard code minimum Ice Maker | Retail | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| FE-Met Ed | High Efficiency Ice Maker | Standard code minimum Ice Maker | Retail | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| FE-Met Ed | High Efficiency Ice Making Head | Standard Ice Making Head | Retail | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 4.0 |
| FE-Met Ed | High Efficiency Ice Making Head | Standard Ice Making Head | Retail | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 4.0 |
| FE-Met Ed | High R-Value Glass Doors | Base Refrigeration System - Grocery | Retail | Refrigeration | Existing | building | 1,026 | 0.7% | 0.01 | 10 | \$17 | 0% | 0.5 |
| FE-Met Ed | High R-Value Glass Doors | Base Refrigeration System - Grocery | Retail | Refrigeration | New | building | 1,026 | 0.7% | 0.01 | 10 | \$17 | 0% | 0.5 |
| FE-Met Ed | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Retail | Refrigeration | Early | Fixture | 373 | 56% | 0.02 | 8 | \$448 | 47% | 0.2 |
| FE-Met Ed | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Retail | Refrigeration | New | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 47% | 0.3 |
| FE-Met Ed | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Retail | Refrigeration | ROB | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 47% | 0.3 |
| FE-Met Ed | No-heat glass doors | Standard low-temp reach-in | Retail | Refrigeration | Existing | building | 1,026 | 20% | 0.2 | 10 | \$1,542 | 8% | 0.1 |
| FE-Met Ed | No-heat glass doors | Standard low-temp reach-in | Retail | Refrigeration | New | building | 1,026 | 20% | 0.2 | 10 | \$1,542 | 8% | 0.1 |
| FE-Met Ed | Quick acting freezer doors | Std. Freezer Doors | Retail | Refrigeration | Existing | building | 3,649 | 13% | 0.1 | 10 | \$903 | 56% | 0.3 |
| FE-Met Ed | Quick acting freezer doors | Std. Freezer Doors | Retail | Refrigeration | New | building | 3,649 | 13% | 0.1 | 10 | \$903 | 56% | 0.3 |
| FE-Met Ed | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Retail | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 30% | 0.4 |
| FE-Met Ed | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Retail | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.6 |
| FE-Met Ed | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Retail | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.6 |
| FE-Met Ed | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 30% | 1.7 |
| FE-Met Ed | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 3.0 |
| FE-Met Ed | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 3.0 |
| FE-Met Ed | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 30% | 1.7 |
| FE-Met Ed | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 4.0 |
| FE-Met Ed | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 4.0 |
| FE-Met Ed | Refrigeration Commissioning | Non-commissioned refrigeration system | Retail | Refrigeration | Existing | building | 11,402 | 9.5% | 0.10 | 3 | \$1,199 | 85% | 0.1 |
| FE-Met Ed | Refrigeration Commissioning | Non-commissioned refrigeration system | Retail | Refrigeration | New | building | 11,402 | 9.5% | 0.10 | 3 | \$1,199 | 85% | 0.1 |
| FE-Met Ed | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Retail | Refrigeration | Existing | building | 3,649 | 40% | 0.4 | 4 | \$120 | 22% | 3.2 |
| FE-Met Ed | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Retail | Refrigeration | Existing | building | 6,271 | 5.7% | 0.06 | 4 | \$122 | 22% | 0.7 |
| FE-Met Ed | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Retail | Refrigeration | New | building | 3,649 | 40% | 0.4 | 4 | \$120 | 22% | 3.2 |
| FE-Met Ed | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Retail | Refrigeration | New | building | 6,271 | 5.7% | 0.06 | 4 | \$122 | 22% | 0.7 |
| FE-Met Ed | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Retail | Refrigeration | Existing | building | 3,649 | 5.6% | 0.06 | 11 | \$127 | 79% | 1.0 |
| FE-Met Ed | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Retail | Refrigeration | New | building | 3,649 | 5.6% | 0.06 | 11 | \$127 | 79% | 1.0 |
| FE-Met Ed | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Retail | Refrigeration | Existing | building | 6,271 | 4.3% | 0.04 | 11 | \$127 | 79% | 1.1 |
| FE-Met Ed | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Retail | Refrigeration | New | building | 6,271 | 4.3% | 0.04 | 11 | \$127 | 79% | 1.1 |
| FE-Met Ed | Vendor Miser | No Vendor Miser | Retail | Refrigeration | Existing | machine | 456 | 12% | 0.1 | 8 | \$46 | 7% | 2.0 |
| FE-Met Ed | Vertical Night Covers | Display cases w/out night covers-High Temperature | Retail | Refrigeration | Existing | building | 1,026 | 0.6% | 0.01 | 5 | \$56 | 9% | 0.1 |
| FE-Met Ed | Vertical Night Covers | Display cases w/out night covers-High Temperature | Retail | Refrigeration | New | building | 1,026 | 0.6% | 0.01 | 5 | \$56 | 9% | 0.1 |
| FE-Met Ed | VSD Controlled Compressor | Compressor w/out VSD | Retail | Refrigeration | Early | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.2 |
| FE-Met Ed | VSD Controlled Compressor | Compressor w/out VSD | Retail | Refrigeration | New | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|---|---------|-----------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | VSD Controlled Compressor | Compressor w/out VSD | Retail | Refrigeration | ROB | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.2 |
| FE-Met Ed | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Retail | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$269 | 35% | 0.9 |
| FE-Met Ed | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Retail | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$269 | 35% | 0.9 |
| FE-Met Ed | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Retail | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.2 |
| FE-Met Ed | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Retail | Refrigeration | New | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 3.0 |
| FE-Met Ed | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Retail | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.2 |
| FE-Met Ed | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Retail | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 3.0 |
| FE-Met Ed | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 35% | 2.4 |
| FE-Met Ed | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 35% | 2.3 |
| FE-Met Ed | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 5.2 |
| FE-Met Ed | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.9 |
| FE-Met Ed | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 5.2 |
| FE-Met Ed | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.9 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Retail | Space Heating | Existing | building | 17,995 | 7.1% | 0.07 | 6 | \$14,435 | 82% | 0.0 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Retail | Space Heating | New | building | 17,995 | 7.1% | 0.07 | 6 | \$14,435 | 82% | 0.0 |
| FE-Met Ed | Adding window shade film | No shade film | Retail | Space Heating | Existing | building | 17,995 | 1.3% | 0.4 | 10 | \$219 | 13% | 1.6 |
| FE-Met Ed | Adding window shade film | No shade film | Retail | Space Heating | New | building | 17,995 | 1.3% | 0.4 | 10 | \$219 | 13% | 1.6 |
| FE-Met Ed | Adding window shade screen | No shade screen | Retail | Space Heating | Existing | building | 17,995 | 1.1% | 0.01 | 10 | \$85 | 13% | 1.0 |
| FE-Met Ed | Adding window shade screen | No shade screen | Retail | Space Heating | New | building | 17,995 | 1.1% | 0.01 | 10 | \$85 | 13% | 0.9 |
| FE-Met Ed | Automated control system | Manual Controls | Retail | Space Heating | Existing | building | 17,995 | 17% | 0.2 | 15 | \$19,701 | 51% | 0.1 |
| FE-Met Ed | Automated control system | Manual Controls | Retail | Space Heating | New | building | 17,995 | 17% | 0.2 | 15 | \$19,701 | 94% | 0.1 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Retail | Space Heating | Existing | building | 17,995 | 4.9% | 0.05 | 15 | \$19,662 | 71% | 0.0 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Retail | Space Heating | New | building | 17,995 | 1.6% | 0.02 | 15 | \$18,689 | 94% | 0.0 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Retail | Space Heating | Existing | building | 17,995 | 1.4% | 0.04 | 15 | \$143 | 20% | 1.2 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Retail | Space Heating | New | building | 17,995 | 1.4% | 0.04 | 15 | \$143 | 10% | 1.2 |
| FE-Met Ed | Efficient Unit Heating System | Existing Unit Heaters in PA | Retail | Space Heating | Early | heater | 21,399 | 23% | 0.04 | 15 | \$3,289 | 83% | 0.8 |
| FE-Met Ed | Efficient Unit Heating System | Std. Unit Heater | Retail | Space Heating | New | heater | 18,992 | 13% | 0.02 | 15 | \$1,991 | 83% | 0.7 |
| FE-Met Ed | Efficient Unit Heating System | Std. Unit Heater | Retail | Space Heating | ROB | heater | 18,992 | 13% | 0.02 | 15 | \$1,991 | 83% | 0.7 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Retail | Space Heating | Existing | building | 17,995 | 7.1% | 0.07 | 15 | \$79,823 | 25% | 0.0 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Retail | Space Heating | New | building | 17,995 | 7.1% | 0.07 | 15 | \$79,823 | 35% | 0.0 |
| FE-Met Ed | Hi Eff HVAC System Design | No HVAC Design | Retail | Space Heating | New | building | 17,995 | 11% | 0.1 | 10 | \$177,576 | 51% | 0.0 |
| FE-Met Ed | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Retail | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 1.1 |
| FE-Met Ed | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Retail | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 1.1 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Retail | Space Heating | Existing | building | 17,995 | 2.3% | 0.02 | 10 | \$7,735 | 81% | 0.0 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Retail | Space Heating | New | building | 17,995 | 2.3% | 0.02 | 10 | \$7,735 | 81% | 0.0 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Retail | Space Heating | Existing | building | 17,995 | 3.6% | 0.04 | 11 | \$286 | 49% | 1.0 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Retail | Space Heating | New | building | 17,995 | 3.1% | 0.03 | 11 | \$146 | 49% | 1.7 |
| FE-Met Ed | Re-Commissioning (Existing Construction) | No Re-Commissioning | Retail | Space Heating | Existing | building | 17,995 | 16% | 0.2 | 5 | \$8,051 | 86% | 0.1 |
| FE-Met Ed | VFD on Cooling Tower Fan | Motor w/out VFD | Retail | Space Heating | Early | motor | 29,667 | 70% | 3.4 | 15 | \$2,843 | 88% | 5.0 |
| FE-Met Ed | VFD on Cooling Tower Fan | Motor w/out VFD | Retail | Space Heating | New | motor | 29,112 | 72% | 3.3 | 15 | \$2,843 | 88% | 5.0 |
| FE-Met Ed | VFD on Cooling Tower Fan | Motor w/out VFD | Retail | Space Heating | ROB | motor | 29,112 | 72% | 3.3 | 15 | \$2,843 | 88% | 5.0 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Retail | Space Heating | Existing | building | 17,995 | 8.1% | 0.08 | 15 | \$5,499 | 26% | 0.2 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Retail | Space Heating | New | building | 17,995 | 0.3% | 0.00 | 15 | \$4,218 | 94% | 0.0 |
| FE-Met Ed | Green LED Traffic Light | Green Incandescent Traffic Light | Retail | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 0% | 1.3 |
| FE-Met Ed | Green LED Traffic Light | Green Incandescent Traffic Light | Retail | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.2 |
| FE-Met Ed | Green LED Traffic Light | Green Incandescent Traffic Light | Retail | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.2 |
| FE-Met Ed | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Retail | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 0% | 3.1 |
| FE-Met Ed | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Retail | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-Met Ed | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Retail | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-Met Ed | Induction Street Lighting | One 100W HPS Street Light Fixture | Retail | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 0% | 0.3 |
| FE-Met Ed | Induction Street Lighting | One 100W HPS Street Light Fixture | Retail | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.8 |
| FE-Met Ed | Induction Street Lighting | One 100W HPS Street Light Fixture | Retail | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.8 |
| FE-Met Ed | LED Street Lighting | One 100W HPS Street Light | Retail | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 0% | 0.2 |
| FE-Met Ed | LED Street Lighting | One 100W HPS Street Light | Retail | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-Met Ed | LED Street Lighting | One 100W HPS Street Light | Retail | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-Met Ed | Red LED Traffic Light | One Red Incandescent Traffic Light | Retail | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 0% | 1.7 |
| FE-Met Ed | Red LED Traffic Light | One Red Incandescent Traffic Light | Retail | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| FE-Met Ed | Red LED Traffic Light | One Red Incandescent Traffic Light | Retail | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| FE-Met Ed | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Retail | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 0% | 0.1 |
| FE-Met Ed | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Retail | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-Met Ed | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Retail | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-Met Ed | Demand controlled Circulating Systems | Constant circulation system | Retail | Water Heating | Existing | building | 6,427 | 20% | 0.2 | 15 | \$1,166 | 59% | 0.8 |
| FE-Met Ed | Demand controlled Circulating Systems | Constant circulation system | Retail | Water Heating | New | building | 6,427 | 20% | 0.2 | 15 | \$1,166 | 59% | 0.8 |
| FE-Met Ed | Drainwater Heat Recovery Water Heater | No heat recovery | Retail | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 2.0 |
| FE-Met Ed | Drainwater Heat Recovery Water Heater | No heat recovery | Retail | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 2.0 |
| FE-Met Ed | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Retail | Water Heating | Existing | building | 6,427 | 5.9% | 0.06 | 12 | \$14 | 85% | 15.8 |
| FE-Met Ed | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Retail | Water Heating | New | building | 6,427 | 5.9% | 0.06 | 12 | \$4.0 | 85% | 55.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|--|--|-----------------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Retail | Water Heating | Early | water heater | 4,077 | 66% | 0.5 | 10 | \$1,187 | 68% | 1.2 |
| FE-Met Ed | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Retail | Water Heating | Early | water heater | 4,077 | 66% | 0.5 | 10 | \$1,187 | 68% | 1.2 |
| FE-Met Ed | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Retail | Water Heating | New | water heater | 4,077 | 66% | 0.5 | 10 | \$1,187 | 68% | 1.2 |
| FE-Met Ed | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Retail | Water Heating | New | water heater | 4,077 | 66% | 0.5 | 10 | \$1,187 | 68% | 1.2 |
| FE-Met Ed | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Retail | Water Heating | ROB | water heater | 3,963 | 65% | 0.5 | 10 | \$1,187 | 68% | 1.1 |
| FE-Met Ed | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Retail | Water Heating | ROB | water heater | 3,963 | 65% | 0.5 | 10 | \$1,187 | 68% | 1.1 |
| FE-Met Ed | Heat Recovery Unit | Base Water Heating | Retail | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.7 |
| FE-Met Ed | Heat Recovery Unit | Base Water Heating | Retail | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.7 |
| FE-Met Ed | Heat Trap | No Heat Trap | Retail | Water Heating | Existing | building | 6,427 | 22% | 0.2 | 11 | \$44 | 50% | 17.7 |
| FE-Met Ed | Heat Trap | No Heat Trap | Retail | Water Heating | New | building | 6,427 | 22% | 0.2 | 11 | \$6.5 | 50% | 119.1 |
| FE-Met Ed | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Retail | Water Heating | Early | water heater | 4,077 | 5.9% | 0.04 | 15 | \$307 | 79% | 0.6 |
| FE-Met Ed | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Retail | Water Heating | Early | water heater | 4,077 | 5.9% | 0.04 | 15 | \$307 | 79% | 0.6 |
| FE-Met Ed | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Retail | Water Heating | New | water heater | 3,963 | 3.2% | 0.02 | 15 | \$307 | 79% | 0.3 |
| FE-Met Ed | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Retail | Water Heating | New | water heater | 3,963 | 3.2% | 0.02 | 15 | \$307 | 79% | 0.3 |
| FE-Met Ed | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Retail | Water Heating | ROB | water heater | 3,963 | 3.2% | 0.02 | 15 | \$307 | 79% | 0.3 |
| FE-Met Ed | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Retail | Water Heating | ROB | water heater | 3,963 | 3.2% | 0.02 | 15 | \$307 | 79% | 0.3 |
| FE-Met Ed | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Retail | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$466 | 81% | 41.0 |
| FE-Met Ed | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Retail | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 21.4 |
| FE-Met Ed | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Retail | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 21.4 |
| FE-Met Ed | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Retail | Water Heating | Existing | building | 6,427 | 0.5% | 0.01 | 13 | \$4.8 | 68% | 4.3 |
| FE-Met Ed | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Retail | Water Heating | New | building | 6,427 | 0.5% | 0.01 | 13 | \$4.8 | 0% | 4.3 |
| FE-Met Ed | Hot Water Circulation Pump Time-Clock | Constant circulation system | Retail | Water Heating | Existing | building | 6,427 | 5.3% | 0.05 | 10 | \$26 | 72% | 6.6 |
| FE-Met Ed | Hot Water Circulation Pump Time-Clock | Constant circulation system | Retail | Water Heating | New | building | 6,427 | 5.3% | 0.05 | 10 | \$26 | 72% | 6.6 |
| FE-Met Ed | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Retail | Water Heating | Existing | building | 5,913 | 2.3% | 0.02 | 7 | \$22 | 78% | 2.4 |
| FE-Met Ed | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Retail | Water Heating | New | building | 5,913 | 2.1% | 0.02 | 7 | \$0.5 | 78% | 96.6 |
| FE-Met Ed | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Retail | Water Heating | Existing | building | 6,427 | 3.0% | 0.03 | 5 | \$300 | 0% | 0.2 |
| FE-Met Ed | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Retail | Water Heating | New | building | 6,427 | 2.0% | 0.02 | 5 | \$194 | 0% | 0.2 |
| FE-Met Ed | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Retail | Water Heating | Existing | building | 6,427 | 6.5% | 0.07 | 9 | \$25 | 2% | 7.8 |
| FE-Met Ed | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Retail | Water Heating | New | building | 6,427 | 6.5% | 0.07 | 9 | \$6.0 | 2% | 32.4 |
| FE-Met Ed | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Retail | Water Heating | Early | water heater | 4,077 | 52% | 0.2 | 15 | \$6,222 | 32% | 0.2 |
| FE-Met Ed | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Retail | Water Heating | New | water heater | 3,963 | 51% | 0.2 | 15 | \$6,222 | 32% | 0.2 |
| FE-Met Ed | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Retail | Water Heating | ROB | water heater | 3,963 | 51% | 0.2 | 15 | \$6,222 | 32% | 0.2 |
| FE-Met Ed | Ultrasonic Faucet Control | Manual Faucet Control | Retail | Water Heating | Existing | building | 6,427 | 3.0% | 0.03 | 10 | \$1,111 | 77% | 0.1 |
| FE-Met Ed | Ultrasonic Faucet Control | Manual Faucet Control | Retail | Water Heating | New | building | 6,427 | 3.0% | 0.03 | 10 | \$1,111 | 77% | 0.1 |
| FE-Met Ed | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Retail | Water Heating | Existing | building | 6,427 | 2.2% | 0.02 | 4 | \$28 | 83% | 1.2 |
| FE-Met Ed | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Retail | Water Heating | New | building | 6,427 | 2.3% | 0.02 | 4 | \$28 | 83% | 1.3 |
| FE-Met Ed | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Street Lighting | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.2 |
| FE-Met Ed | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Street Lighting | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.2 |
| FE-Met Ed | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Street Lighting | Cooking | Early | steamer | 51 | 46% | 0.00 | 12 | \$5,053 | 81% | 0.0 |
| FE-Met Ed | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Street Lighting | Cooking | New | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-Met Ed | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Street Lighting | Cooking | ROB | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-Met Ed | Electric combination oven (Energy Star) | Standard Oven | Street Lighting | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 3.1 |
| FE-Met Ed | Electric combination oven (Energy Star) | Standard Oven | Street Lighting | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 3.1 |
| FE-Met Ed | Electric Convection Oven | Conventional convection oven w/ 65% efficiency | Street Lighting | Cooking | Early | oven | 8,641 | 37% | 0.6 | 12 | \$4,119 | 81% | 0.5 |
| FE-Met Ed | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Street Lighting | Cooking | New | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.8 |
| FE-Met Ed | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Street Lighting | Cooking | ROB | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.8 |
| FE-Met Ed | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Street Lighting | Cooking | Early | fryer | 6,105 | 23% | 0.3 | 12 | \$9,241 | 86% | 0.1 |
| FE-Met Ed | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Street Lighting | Cooking | New | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.4 |
| FE-Met Ed | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Street Lighting | Cooking | ROB | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.4 |
| FE-Met Ed | High Efficiency Griddle (ENERGY STAR) | Efficiency code minimum griddle (70% eff) | Street Lighting | Cooking | Early | griddle | 11,317 | 65% | 1.4 | 12 | \$4,977 | 86% | 0.9 |
| FE-Met Ed | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Street Lighting | Cooking | New | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.3 |
| FE-Met Ed | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Street Lighting | Cooking | ROB | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.3 |
| FE-Met Ed | High Efficiency Induction Cooking | Standard Cooking | Street Lighting | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-Met Ed | High Efficiency Induction Cooking | Standard Cooking | Street Lighting | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Street Lighting | Cooling Central | Existing | building | 1,592 | 7.0% | 0.07 | 6 | \$12,512 | 82% | 0.0 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Street Lighting | Cooling Central | New | building | 1,592 | 7.0% | 0.07 | 6 | \$12,512 | 82% | 0.0 |
| FE-Met Ed | Adding window shade film | No shade film | Street Lighting | Cooling Central | Existing | building | 1,592 | 1.3% | 0.4 | 10 | \$19 | 12% | 14.1 |
| FE-Met Ed | Adding window shade film | No shade film | Street Lighting | Cooling Central | New | building | 1,592 | 1.3% | 0.4 | 10 | \$19 | 13% | 14.1 |
| FE-Met Ed | Adding window shade screen | No shade screen | Street Lighting | Cooling Central | Existing | building | 1,592 | 1.1% | 0.01 | 10 | \$7.5 | 13% | 1.8 |
| FE-Met Ed | Adding window shade screen | No shade screen | Street Lighting | Cooling Central | New | building | 1,592 | 1.0% | 0.01 | 10 | \$7.5 | 13% | 1.8 |
| FE-Met Ed | Automated control system | Manual Controls | Street Lighting | Cooling Central | Existing | building | 1,592 | 17% | 0.2 | 15 | \$1,742 | 51% | 0.2 |
| FE-Met Ed | Automated control system | Manual Controls | Street Lighting | Cooling Central | New | building | 1,592 | 17% | 0.2 | 15 | \$1,742 | 94% | 0.2 |
| FE-Met Ed | Ceiling Insulations (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Street Lighting | Cooling Central | Existing | building | 1,592 | 6.2% | 0.06 | 15 | \$17,130 | 71% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|--|--|-----------------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Street Lighting | Cooling Central | New | building | 1,592 | 2.1% | 0.02 | 15 | \$16,283 | 94% | 0.0 |
| FE-Met Ed | Chiller Tuneup/Diagnostics | No tuneup | Street Lighting | Cooling Central | Existing | building | 1,592 | 8.0% | 0.08 | 10 | \$4,064 | 59% | 0.0 |
| FE-Met Ed | Chiller Tuneup/Diagnostics | No tuneup | Street Lighting | Cooling Central | New | building | 1,592 | 8.0% | 0.08 | 10 | \$4,064 | 59% | 0.0 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Street Lighting | Cooling Central | Existing | building | 1,592 | 1.4% | 0.04 | 15 | \$13 | 20% | 4.0 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Street Lighting | Cooling Central | New | building | 1,592 | 1.4% | 0.04 | 15 | \$13 | 10% | 4.0 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Street Lighting | Cooling Central | Existing | building | 1,592 | 7.0% | 0.07 | 15 | \$7,060 | 25% | 0.0 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Street Lighting | Cooling Central | New | building | 1,592 | 7.0% | 0.07 | 15 | \$7,060 | 35% | 0.0 |
| FE-Met Ed | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | Early | ton | 5,094 | 24% | 0.4 | 15 | \$108,550 | 88% | 0.0 |
| FE-Met Ed | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | New | ton | 4,164 | 6.7% | 0.10 | 15 | \$12,927 | 88% | 0.0 |
| FE-Met Ed | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | ROB | ton | 4,164 | 6.7% | 0.10 | 15 | \$12,927 | 88% | 0.0 |
| FE-Met Ed | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | Early | ton | 7,611 | 23% | 0.6 | 15 | \$140,105 | 88% | 0.0 |
| FE-Met Ed | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | New | ton | 6,124 | 4.9% | 0.1 | 15 | \$9,336 | 88% | 0.0 |
| FE-Met Ed | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | ROB | ton | 6,124 | 4.9% | 0.1 | 15 | \$9,336 | 88% | 0.0 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | Early | ton | 62,308 | 26% | 5.6 | 15 | \$105,354 | 88% | 0.1 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | New | ton | 54,288 | 15% | 2.8 | 15 | \$30,530 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | ROB | ton | 54,288 | 15% | 2.8 | 15 | \$30,530 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | Early | ton | 93,320 | 23% | 7.4 | 15 | \$154,107 | 88% | 0.1 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | New | ton | 85,726 | 16% | 4.8 | 15 | \$27,646 | 88% | 0.4 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | ROB | ton | 93,320 | 23% | 7.4 | 15 | \$27,646 | 88% | 0.7 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | Early | ton | 154,988 | 23% | 12.2 | 15 | \$302,924 | 88% | 0.1 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | New | ton | 140,275 | 14% | 7.0 | 15 | \$115,432 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | ROB | ton | 154,988 | 23% | 12.2 | 15 | \$115,432 | 88% | 0.3 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | Early | ton | 185,985 | 23% | 14.6 | 15 | \$350,154 | 88% | 0.1 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | New | ton | 168,330 | 14% | 8.5 | 15 | \$120,406 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | ROB | ton | 185,985 | 23% | 14.6 | 15 | \$120,406 | 88% | 0.3 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | Early | ton | 41,225 | 29% | 4.2 | 15 | \$83,632 | 88% | 0.1 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | New | ton | 32,011 | 8.9% | 1.0 | 15 | \$40,211 | 88% | 0.1 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | ROB | ton | 41,225 | 29% | 4.2 | 15 | \$40,211 | 88% | 0.3 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | Early | ton | 70,835 | 35% | 8.6 | 15 | \$132,173 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | New | ton | 52,831 | 13% | 2.3 | 15 | \$39,556 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | ROB | ton | 52,831 | 13% | 2.3 | 15 | \$39,556 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | Early | ton | 118,265 | 39% | 16.1 | 15 | \$187,029 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | New | ton | 84,321 | 15% | 4.3 | 15 | \$33,554 | 88% | 0.3 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | ROB | ton | 118,265 | 39% | 16.1 | 15 | \$33,554 | 88% | 1.2 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | Early | ton | 20,695 | 30% | 2.1 | 15 | \$32,398 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | New | ton | 16,396 | 11% | 0.6 | 15 | \$7,188 | 88% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | ROB | ton | 20,695 | 30% | 2.1 | 15 | \$7,188 | 88% | 0.8 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Street Lighting | Cooling Central | Existing | building | 1,592 | 2.2% | 0.02 | 10 | \$10,066 | 81% | 0.0 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Street Lighting | Cooling Central | New | building | 1,592 | 2.2% | 0.02 | 10 | \$10,066 | 81% | 0.0 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Street Lighting | Cooling Central | Existing | building | 1,592 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.1 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Street Lighting | Cooling Central | New | building | 1,592 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.2 |
| FE-Met Ed | Re-Commissioning (Existing Construction) | No Re-Commissioning | Street Lighting | Cooling Central | Existing | building | 1,592 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Street Lighting | Cooling Central | Existing | building | 1,592 | 11% | 0.1 | 15 | \$3,285 | 26% | 0.1 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Street Lighting | Cooling Central | New | building | 1,592 | 0.3% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| FE-Met Ed | <65k BTU/hr 14 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Street Lighting | Cooling Unitary | Early | ton | 2,567 | 16% | 0.2 | 15 | \$1,545 | 29% | 0.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|--|-----------------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Street Lighting | Cooling Unitary | New | ton | 2,325 | 7.1% | 0.09 | 15 | \$339 | 29% | 0.5 |
| FE-Met Ed | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Street Lighting | Cooling Unitary | ROB | ton | 2,325 | 7.1% | 0.09 | 15 | \$339 | 29% | 0.5 |
| FE-Met Ed | <65k BTU/hr 15 SEER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Street Lighting | Cooling Unitary | Early | ton | 2,567 | 22% | 0.3 | 15 | \$1,821 | 30% | 0.3 |
| FE-Met Ed | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Street Lighting | Cooling Unitary | New | ton | 2,325 | 13% | 0.2 | 15 | \$714 | 30% | 0.5 |
| FE-Met Ed | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Street Lighting | Cooling Unitary | ROB | ton | 2,325 | 13% | 0.2 | 15 | \$714 | 30% | 0.5 |
| FE-Met Ed | <65k BTU/hr 16 SEER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Street Lighting | Cooling Unitary | Early | ton | 2,567 | 26% | 0.4 | 15 | \$2,098 | 31% | 0.3 |
| FE-Met Ed | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Street Lighting | Cooling Unitary | New | ton | 2,325 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.4 |
| FE-Met Ed | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Street Lighting | Cooling Unitary | ROB | ton | 2,325 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.4 |
| FE-Met Ed | >760k min 10.2 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Street Lighting | Cooling Unitary | Early | ton | 64,948 | 3.7% | 1.3 | 15 | \$68,066 | 56% | 0.0 |
| FE-Met Ed | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Street Lighting | Cooling Unitary | New | ton | 65,780 | 4.9% | 1.7 | 15 | \$6,231 | 56% | 0.6 |
| FE-Met Ed | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Street Lighting | Cooling Unitary | ROB | ton | 65,780 | 4.9% | 1.7 | 15 | \$6,231 | 56% | 0.6 |
| FE-Met Ed | 135-240k min 12 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Street Lighting | Cooling Unitary | Early | ton | 15,981 | 18% | 1.5 | 15 | \$18,135 | 79% | 0.2 |
| FE-Met Ed | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Street Lighting | Cooling Unitary | New | ton | 14,537 | 10.0% | 0.8 | 15 | \$1,948 | 79% | 0.8 |
| FE-Met Ed | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Street Lighting | Cooling Unitary | ROB | ton | 14,537 | 10.0% | 0.8 | 15 | \$1,948 | 79% | 0.8 |
| FE-Met Ed | 240k-760k min 11 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Street Lighting | Cooling Unitary | Early | ton | 42,729 | 9.0% | 2.0 | 15 | \$44,809 | 66% | 0.1 |
| FE-Met Ed | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Street Lighting | Cooling Unitary | New | ton | 42,835 | 9.3% | 2.1 | 15 | \$4,796 | 66% | 0.9 |
| FE-Met Ed | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Street Lighting | Cooling Unitary | ROB | ton | 42,835 | 9.3% | 2.1 | 15 | \$4,796 | 66% | 0.9 |
| FE-Met Ed | 65k-135k BTU/hr 12 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Street Lighting | Cooling Unitary | Early | ton | 9,420 | 17% | 0.8 | 15 | \$10,946 | 86% | 0.2 |
| FE-Met Ed | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Street Lighting | Cooling Unitary | New | ton | 8,396 | 6.7% | 0.3 | 15 | \$1,392 | 86% | 0.4 |
| FE-Met Ed | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Street Lighting | Cooling Unitary | ROB | ton | 8,396 | 6.7% | 0.3 | 15 | \$1,392 | 86% | 0.4 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Street Lighting | Cooling Unitary | Existing | building | 23,795 | 7.0% | 0.07 | 6 | \$12,515 | 82% | 0.0 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Street Lighting | Cooling Unitary | New | building | 23,795 | 7.0% | 0.07 | 6 | \$12,515 | 82% | 0.0 |
| FE-Met Ed | Adding window shade film | No shade film | Street Lighting | Cooling Unitary | Existing | building | 23,795 | 1.3% | 0.4 | 10 | \$290 | 12% | 1.3 |
| FE-Met Ed | Adding window shade film | No shade film | Street Lighting | Cooling Unitary | New | building | 23,795 | 1.3% | 0.4 | 10 | \$290 | 13% | 1.3 |
| FE-Met Ed | Adding window shade screen | No shade screen | Street Lighting | Cooling Unitary | Existing | building | 23,795 | 1.1% | 0.01 | 10 | \$112 | 12% | 1.0 |
| FE-Met Ed | Adding window shade screen | No shade screen | Street Lighting | Cooling Unitary | New | building | 23,795 | 1.1% | 0.01 | 10 | \$112 | 13% | 1.0 |
| FE-Met Ed | Automated control system | Manual Controls | Street Lighting | Cooling Unitary | Existing | building | 23,795 | 17% | 0.2 | 15 | \$26,050 | 51% | 0.1 |
| FE-Met Ed | Automated control system | Manual Controls | Street Lighting | Cooling Unitary | New | building | 23,795 | 17% | 0.2 | 15 | \$26,050 | 94% | 0.1 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Street Lighting | Cooling Unitary | Existing | building | 23,795 | 6.2% | 0.06 | 15 | \$17,130 | 71% | 0.1 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Street Lighting | Cooling Unitary | New | building | 23,795 | 2.1% | 0.02 | 15 | \$16,283 | 94% | 0.0 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Street Lighting | Cooling Unitary | Existing | building | 23,795 | 1.4% | 0.04 | 15 | \$189 | 20% | 1.2 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Street Lighting | Cooling Unitary | New | building | 23,795 | 1.4% | 0.04 | 15 | \$189 | 10% | 1.2 |
| FE-Met Ed | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Street Lighting | Cooling Unitary | Existing | building | 13,087 | 13% | 0.1 | 1 | \$125 | 73% | 0.8 |
| FE-Met Ed | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Street Lighting | Cooling Unitary | New | building | 13,087 | 13% | 0.1 | 1 | \$125 | 73% | 0.8 |
| FE-Met Ed | ECM Motors for split systems | Std Shaded Pole Motor | Street Lighting | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 3.0 |
| FE-Met Ed | ECM Motors for split systems | Std Shaded Pole Motor | Street Lighting | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 3.0 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Street Lighting | Cooling Unitary | Existing | building | 23,795 | 7.1% | 0.07 | 15 | \$105,550 | 25% | 0.0 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Street Lighting | Cooling Unitary | New | building | 23,795 | 7.1% | 0.07 | 15 | \$105,550 | 35% | 0.0 |
| FE-Met Ed | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Street Lighting | Cooling Unitary | Existing | building | 23,795 | 5.0% | 0.05 | 5 | \$225 | 59% | 1.3 |
| FE-Met Ed | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Street Lighting | Cooling Unitary | Existing | building | 23,795 | 0.5% | 0.04 | 5 | \$225 | 51% | 0.2 |
| FE-Met Ed | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Street Lighting | Cooling Unitary | New | building | 23,795 | 0.4% | 0.04 | 5 | \$135 | 51% | 0.3 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Street Lighting | Cooling Unitary | Existing | building | 23,795 | 2.2% | 0.02 | 10 | \$10,818 | 86% | 0.0 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Street Lighting | Cooling Unitary | New | building | 23,795 | 2.2% | 0.02 | 10 | \$10,818 | 86% | 0.0 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) | Street Lighting | Cooling Unitary | Existing | building | 23,795 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.8 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Street Lighting | Cooling Unitary | New | building | 23,795 | 1.7% | 0.02 | 11 | \$146 | 49% | 1.3 |
| FE-Met Ed | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Street Lighting | Cooling Unitary | Early | unit | 779 | 19% | 0.09 | 15 | \$849 | 85% | 0.2 |
| FE-Met Ed | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Street Lighting | Cooling Unitary | New | unit | 787 | 20% | 0.09 | 15 | \$356 | 85% | 0.5 |
| FE-Met Ed | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Street Lighting | Cooling Unitary | ROB | unit | 787 | 20% | 0.09 | 15 | \$356 | 85% | 0.5 |
| FE-Met Ed | Re-Commissioning (Existing Construction) | No Re-Commissioning | Street Lighting | Cooling Unitary | Existing | building | 23,795 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.1 |
| FE-Met Ed | Room AC (w/ louvered sides) | Existing efficiency Room AC in Pennsylvania (2000 Federal Standards) | Street Lighting | Cooling Unitary | Early | ton | 1,185 | 13% | 0.06 | 9 | \$348 | 82% | 0.3 |
| FE-Met Ed | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Street Lighting | Cooling Unitary | New | ton | 1,074 | 4.5% | 0.02 | 9 | \$17 | 82% | 1.6 |
| FE-Met Ed | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Street Lighting | Cooling Unitary | ROB | ton | 1,074 | 4.5% | 0.02 | 9 | \$17 | 82% | 1.6 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Street Lighting | Cooling Unitary | Existing | building | 23,795 | 11% | 0.1 | 15 | \$3,285 | 26% | 0.5 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Street Lighting | Cooling Unitary | New | building | 23,795 | 0.3% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| FE-Met Ed | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Street Lighting | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 1.2 |
| FE-Met Ed | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Street Lighting | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.6 |
| FE-Met Ed | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Street Lighting | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.6 |
| FE-Met Ed | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Street Lighting | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 0% | 0.2 |
| FE-Met Ed | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Street Lighting | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-Met Ed | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Street Lighting | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-Met Ed | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Street Lighting | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 53% | 0.3 |
| FE-Met Ed | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Street Lighting | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 53% | 0.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|--|---|-----------------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Street Lighting | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 53% | 2.9 |
| FE-Met Ed | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Street Lighting | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 53% | 2.2 |
| FE-Met Ed | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Street Lighting | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 53% | 2.9 |
| FE-Met Ed | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Street Lighting | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 53% | 2.2 |
| FE-Met Ed | Photocell Controls (Outdoor) | Lighting w/ No Controls | Street Lighting | Ext. Lighting | Existing | building | 205 | 28% | 0.3 | 8 | \$5,088 | 88% | 0.0 |
| FE-Met Ed | Photocell Controls (Outdoor) | Lighting w/ No Controls | Street Lighting | Ext. Lighting | New | building | 205 | 28% | 0.3 | 8 | \$5,088 | 0% | 0.0 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Street Lighting | Heat Pump | Existing | building | 2,558 | 6.9% | 0.07 | 6 | \$12,519 | 82% | 0.0 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Street Lighting | Heat Pump | New | building | 2,558 | 6.9% | 0.07 | 6 | \$12,519 | 82% | 0.0 |
| FE-Met Ed | Adding window shade film | No shade film | Street Lighting | Heat Pump | Existing | building | 2,558 | 3.9% | 0.4 | 10 | \$31 | 12% | 9.7 |
| FE-Met Ed | Adding window shade film | No shade film | Street Lighting | Heat Pump | New | building | 2,558 | 3.9% | 0.4 | 10 | \$31 | 12% | 9.7 |
| FE-Met Ed | Adding window shade screen | No shade screen | Street Lighting | Heat Pump | Existing | building | 2,558 | 0.3% | 0.01 | 10 | \$4.0 | 12% | 2.6 |
| FE-Met Ed | Adding window shade screen | No shade screen | Street Lighting | Heat Pump | New | building | 2,558 | 0.3% | 0.01 | 10 | \$4.0 | 12% | 2.6 |
| FE-Met Ed | Automated control system | Manual Controls | Street Lighting | Heat Pump | Existing | building | 2,558 | 17% | 0.2 | 15 | \$2,801 | 51% | 0.1 |
| FE-Met Ed | Automated control system | Manual Controls | Street Lighting | Heat Pump | New | building | 2,558 | 17% | 0.2 | 15 | \$2,801 | 94% | 0.1 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Street Lighting | Heat Pump | Existing | building | 2,558 | 6.2% | 0.06 | 15 | \$17,130 | 71% | 0.0 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Street Lighting | Heat Pump | New | building | 2,558 | 2.1% | 0.02 | 15 | \$16,283 | 94% | 0.0 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Street Lighting | Heat Pump | Existing | building | 2,558 | 4.0% | 0.04 | 15 | \$20 | 12% | 4.6 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Street Lighting | Heat Pump | New | building | 2,558 | 4.0% | 0.04 | 15 | \$20 | 6% | 4.6 |
| FE-Met Ed | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Street Lighting | Heat Pump | Early | heat pump | 2,289 | 12% | 0.02 | 15 | \$4,070 | 83% | 0.0 |
| FE-Met Ed | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Street Lighting | Heat Pump | New | heat pump | 2,182 | 7.8% | 0.01 | 15 | \$1,097 | 83% | 0.1 |
| FE-Met Ed | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Street Lighting | Heat Pump | ROB | heat pump | 2,182 | 7.8% | 0.01 | 15 | \$1,097 | 83% | 0.1 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Street Lighting | Heat Pump | Existing | building | 2,558 | 7.0% | 0.07 | 15 | \$11,347 | 25% | 0.0 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Street Lighting | Heat Pump | New | building | 2,558 | 7.0% | 0.07 | 15 | \$11,347 | 35% | 0.0 |
| FE-Met Ed | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Street Lighting | Heat Pump | Early | heat pump | 23,587 | 16% | 0.3 | 15 | \$91,117 | 19% | 0.0 |
| FE-Met Ed | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Street Lighting | Heat Pump | New | heat pump | 22,730 | 13% | 0.3 | 15 | \$33,927 | 19% | 0.1 |
| FE-Met Ed | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Street Lighting | Heat Pump | ROB | heat pump | 22,730 | 13% | 0.3 | 15 | \$33,927 | 19% | 0.1 |
| FE-Met Ed | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Street Lighting | Heat Pump | Early | heat pump | 23,587 | 16% | 0.3 | 15 | \$58,356 | 19% | 0.0 |
| FE-Met Ed | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Street Lighting | Heat Pump | New | heat pump | 22,730 | 13% | 0.3 | 15 | \$1,167 | 19% | 1.6 |
| FE-Met Ed | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Street Lighting | Heat Pump | ROB | heat pump | 22,730 | 13% | 0.3 | 15 | \$1,167 | 19% | 1.6 |
| FE-Met Ed | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Street Lighting | Heat Pump | Early | heat pump | 6,103 | 17% | 0.09 | 12 | \$4,298 | 81% | 0.1 |
| FE-Met Ed | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Street Lighting | Heat Pump | New | heat pump | 5,819 | 12% | 0.06 | 12 | \$852 | 81% | 0.4 |
| FE-Met Ed | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Street Lighting | Heat Pump | ROB | heat pump | 5,819 | 12% | 0.06 | 12 | \$852 | 81% | 0.4 |
| FE-Met Ed | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Street Lighting | Heat Pump | Existing | building | 2,558 | 5.0% | 0.01 | 5 | \$90 | 51% | 0.3 |
| FE-Met Ed | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Street Lighting | Heat Pump | New | building | 2,558 | 5.0% | 0.01 | 5 | \$90 | 51% | 0.3 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Street Lighting | Heat Pump | Existing | building | 2,558 | 2.2% | 0.02 | 10 | \$9,632 | 81% | 0.0 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Street Lighting | Heat Pump | New | building | 2,558 | 2.2% | 0.02 | 10 | \$9,632 | 81% | 0.0 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Street Lighting | Heat Pump | Existing | building | 2,558 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.2 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Street Lighting | Heat Pump | New | building | 2,558 | 2.1% | 0.02 | 11 | \$146 | 49% | 0.3 |
| FE-Met Ed | Re-Commissioning (Existing Construction) | No Re-Commissioning | Street Lighting | Heat Pump | Existing | building | 2,558 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Street Lighting | Heat Pump | Existing | building | 2,558 | 11% | 0.1 | 15 | \$3,285 | 26% | 0.1 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Street Lighting | Heat Pump | New | building | 2,558 | 0.3% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| FE-Met Ed | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Street Lighting | Heat Pump | Early | heat pump | 9,790 | 35% | 0.3 | 15 | \$35,347 | 28% | 0.1 |
| FE-Met Ed | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Street Lighting | Heat Pump | New | heat pump | 9,304 | 31% | 0.3 | 15 | \$15,739 | 28% | 0.1 |
| FE-Met Ed | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Street Lighting | Heat Pump | ROB | heat pump | 9,304 | 31% | 0.3 | 15 | \$15,739 | 28% | 0.1 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 299 | 9.6% | 0.01 | 13 | \$850 | 39% | 0.0 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Street Lighting | High Bay Lighting | Early | Fixture | 299 | 9.5% | 0.01 | 13 | \$850 | 28% | 0.0 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 461 | 41% | 0.04 | 13 | \$850 | 36% | 0.1 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | New | Fixture | 227 | 9.6% | 0.00 | 13 | \$372 | 39% | 0.0 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Street Lighting | High Bay Lighting | New | Fixture | 211 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | New | Fixture | 350 | 41% | 0.03 | 13 | \$397 | 36% | 0.2 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 299 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 278 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 461 | 41% | 0.04 | 13 | \$397 | 36% | 0.3 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 580 | 19% | 0.02 | 13 | \$851 | 38% | 0.1 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Street Lighting | High Bay Lighting | Early | Fixture | 587 | 20% | 0.02 | 13 | \$851 | 38% | 0.1 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 1,708 | 73% | 0.2 | 13 | \$851 | 38% | 1.0 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | New | Fixture | 441 | 19% | 0.02 | 13 | \$372 | 38% | 0.1 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | New | Fixture | 1,298 | 73% | 0.2 | 13 | \$383 | 38% | 1.6 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 580 | 19% | 0.02 | 13 | \$372 | 38% | 0.2 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 1,708 | 73% | 0.2 | 13 | \$383 | 38% | 2.1 |
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 580 | 25% | 0.03 | 13 | \$554 | 29% | 0.2 |
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Street Lighting | High Bay Lighting | Early | Fixture | 569 | 23% | 0.03 | 13 | \$554 | 28% | 0.2 |
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 1,708 | 74% | 0.2 | 13 | \$554 | 36% | 1.5 |
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | New | Fixture | 441 | 25% | 0.02 | 13 | \$75 | 29% | 1.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|---|-----------------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | New | Fixture | 1,298 | 74% | 0.2 | 13 | \$86 | 36% | 7.4 |
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 580 | 25% | 0.03 | 13 | \$75 | 29% | 1.3 |
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 1,708 | 74% | 0.2 | 13 | \$86 | 36% | 9.8 |
| FE-Met Ed | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Street Lighting | High Bay Lighting | Early | Fixture | 151 | 0.2% | 0.00 | 13 | \$835 | 38% | 0.0 |
| FE-Met Ed | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 326 | 54% | 0.03 | 13 | \$835 | 38% | 0.1 |
| FE-Met Ed | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | New | Fixture | 248 | 54% | 0.03 | 13 | \$382 | 38% | 0.2 |
| FE-Met Ed | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 326 | 54% | 0.03 | 13 | \$382 | 38% | 0.3 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 739 | 18% | 0.03 | 13 | \$487 | 25% | 0.2 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Street Lighting | High Bay Lighting | Early | Fixture | 773 | 22% | 0.03 | 13 | \$487 | 28% | 0.2 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 1,708 | 65% | 0.2 | 13 | \$487 | 36% | 1.5 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | New | Fixture | 562 | 18% | 0.02 | 13 | \$16 | 25% | 4.1 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | New | Fixture | 1,298 | 65% | 0.2 | 13 | \$18 | 36% | 30.0 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 739 | 18% | 0.03 | 13 | \$16 | 25% | 5.5 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 1,708 | 65% | 0.2 | 13 | \$18 | 36% | 39.5 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 739 | 1.5% | 0.00 | 13 | \$557 | 19% | 0.0 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Street Lighting | High Bay Lighting | Early | Fixture | 761 | 4.3% | 0.01 | 13 | \$557 | 19% | 0.0 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 1,708 | 57% | 0.2 | 13 | \$557 | 19% | 1.2 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | New | Fixture | 562 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | New | Fixture | 1,298 | 57% | 0.1 | 13 | \$88 | 19% | 5.6 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 739 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 1,708 | 57% | 0.2 | 13 | \$88 | 19% | 7.3 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 314 | 29% | 0.01 | 13 | \$492 | 71% | 0.1 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 262 | 15% | 0.01 | 13 | \$492 | 95% | 0.0 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 390 | 43% | 0.02 | 13 | \$492 | 95% | 0.2 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 361 | 38% | 0.02 | 13 | \$492 | 95% | 0.2 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | New | Fixture | 199 | 15% | 0.00 | 13 | \$25 | 95% | 0.7 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | New | Fixture | 296 | 43% | 0.02 | 13 | \$51 | 95% | 1.5 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 262 | 15% | 0.01 | 13 | \$25 | 95% | 1.0 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 390 | 43% | 0.02 | 13 | \$51 | 95% | 2.0 |
| FE-Met Ed | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Street Lighting | High Bay Lighting | Early | lamp | 87 | 16% | 0.00 | 12 | \$7.7 | 99% | 1.2 |
| FE-Met Ed | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Street Lighting | High Bay Lighting | New | lamp | 52 | 13% | 0.00 | 12 | \$1.6 | 91% | 2.6 |
| FE-Met Ed | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Street Lighting | High Bay Lighting | ROB | lamp | 84 | 13% | 0.00 | 12 | \$1.6 | 91% | 4.2 |
| FE-Met Ed | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 1,748 | 23% | 0.08 | 13 | \$613 | 5% | 0.4 |
| FE-Met Ed | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Street Lighting | High Bay Lighting | Early | Fixture | 1,373 | 1.6% | 0.00 | 13 | \$613 | 28% | 0.0 |
| FE-Met Ed | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 3,417 | 60% | 0.4 | 13 | \$613 | 18% | 2.2 |
| FE-Met Ed | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | New | Fixture | 1,329 | 23% | 0.06 | 13 | \$96 | 5% | 2.1 |
| FE-Met Ed | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 1,748 | 23% | 0.08 | 13 | \$96 | 5% | 2.7 |
| FE-Met Ed | Auto Off Time Switch | Lighting w/ No Controls | Street Lighting | High Bay Lighting | Existing | building | 779 | 24% | 0.2 | 8 | \$1,034 | 13% | 0.2 |
| FE-Met Ed | Auto Off Time Switch | Lighting w/ No Controls | Street Lighting | High Bay Lighting | New | building | 779 | 6.9% | 0.07 | 8 | \$1,034 | 0% | 0.1 |
| FE-Met Ed | Central Lighting Control System | Lighting w/ No Controls | Street Lighting | High Bay Lighting | Existing | building | 779 | 38% | 0.4 | 8 | \$1,034 | 13% | 0.3 |
| FE-Met Ed | Central Lighting Control System | Lighting w/ No Controls | Street Lighting | High Bay Lighting | New | building | 779 | 14% | 0.1 | 8 | \$1,034 | 13% | 0.1 |
| FE-Met Ed | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Street Lighting | High Bay Lighting | New | building | 779 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.0 |
| FE-Met Ed | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Street Lighting | High Bay Lighting | New | building | 779 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |
| FE-Met Ed | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Street Lighting | High Bay Lighting | New | building | 779 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| FE-Met Ed | Indoor Daylight Sensors | Lighting w/ No Controls | Street Lighting | High Bay Lighting | Existing | building | 779 | 28% | 0.3 | 8 | \$5,088 | 13% | 0.0 |
| FE-Met Ed | Indoor Daylight Sensors | Lighting w/ No Controls | Street Lighting | High Bay Lighting | New | building | 779 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| FE-Met Ed | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 1,748 | 92% | 0.3 | 13 | \$1,916 | 95% | 0.6 |
| FE-Met Ed | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 3,417 | 96% | 0.6 | 13 | \$1,916 | 95% | 1.1 |
| FE-Met Ed | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | New | Fixture | 1,329 | 92% | 0.2 | 13 | \$1,468 | 95% | 0.5 |
| FE-Met Ed | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | New | Fixture | 2,597 | 96% | 0.5 | 13 | \$1,149 | 95% | 1.4 |
| FE-Met Ed | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 1,748 | 92% | 0.3 | 13 | \$1,468 | 95% | 0.7 |
| FE-Met Ed | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 3,417 | 96% | 0.6 | 13 | \$1,149 | 95% | 1.9 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 580 | 67% | 0.07 | 13 | \$960 | 95% | 0.3 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 1,708 | 89% | 0.3 | 13 | \$960 | 95% | 1.0 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 469 | 59% | 0.05 | 13 | \$960 | 95% | 0.2 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | New | Fixture | 441 | 67% | 0.06 | 13 | \$480 | 95% | 0.4 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | New | Fixture | 1,298 | 89% | 0.2 | 13 | \$491 | 95% | 1.5 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Street Lighting | High Bay Lighting | New | Fixture | 356 | 59% | 0.04 | 13 | \$406 | 95% | 0.3 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 580 | 67% | 0.07 | 13 | \$480 | 95% | 0.5 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 1,708 | 89% | 0.3 | 13 | \$491 | 95% | 2.0 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 469 | 59% | 0.05 | 13 | \$406 | 95% | 0.4 |
| FE-Met Ed | Occupancy Sensor | Lighting w/ No Controls | Street Lighting | High Bay Lighting | Existing | building | 779 | 24% | 0.2 | 8 | \$1,558 | 11% | 0.1 |
| FE-Met Ed | Occupancy Sensor | Lighting w/ No Controls | Street Lighting | High Bay Lighting | New | building | 779 | 6.9% | 0.07 | 8 | \$1,558 | 0% | 0.0 |
| FE-Met Ed | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Street Lighting | High Bay Lighting | Existing | building | 779 | 28% | 0.3 | 8 | \$5,088 | 11% | 0.0 |
| FE-Met Ed | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Street Lighting | High Bay Lighting | New | building | 779 | 4.0% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| FE-Met Ed | Time Clock Control | Lighting w/ No Controls | Street Lighting | High Bay Lighting | Existing | building | 779 | 28% | 0.3 | 8 | \$1,034 | 13% | 0.2 |
| FE-Met Ed | Time Clock Control | Lighting w/ No Controls | Street Lighting | High Bay Lighting | New | building | 779 | 4.1% | 0.04 | 8 | \$1,034 | 0% | 0.0 |
| FE-Met Ed | Auto Off Time Switch | Lighting w/ No Controls | Street Lighting | Lin. Fluor. Lighting | Existing | building | 26,386 | 24% | 0.2 | 8 | \$1,034 | 13% | 2.2 |
| FE-Met Ed | Auto Off Time Switch | Lighting w/ No Controls | Street Lighting | Lin. Fluor. Lighting | New | building | 26,386 | 7.0% | 0.07 | 8 | \$1,034 | 0% | 0.6 |
| FE-Met Ed | Central Lighting Control System | Lighting w/ No Controls | Street Lighting | Lin. Fluor. Lighting | Existing | building | 26,386 | 38% | 0.4 | 8 | \$1,034 | 12% | 3.4 |
| FE-Met Ed | Central Lighting Control System | Lighting w/ No Controls | Street Lighting | Lin. Fluor. Lighting | New | building | 26,386 | 14% | 0.1 | 8 | \$1,034 | 12% | 1.3 |
| FE-Met Ed | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Street Lighting | Lin. Fluor. Lighting | New | building | 26,386 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|--|-----------------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Street Lighting | Lin. Fluor. Lighting | New | building | 26,386 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |
| FE-Met Ed | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Street Lighting | Lin. Fluor. Lighting | New | building | 26,386 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| FE-Met Ed | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Street Lighting | Lin. Fluor. Lighting | Early | Lamp | 175 | 38% | 0.01 | 12 | \$7.3 | 94% | 5.6 |
| FE-Met Ed | Indoor Daylight Sensors | Lighting w/ No Controls | Street Lighting | Lin. Fluor. Lighting | Existing | building | 26,386 | 28% | 0.3 | 8 | \$5,088 | 13% | 0.5 |
| FE-Met Ed | Indoor Daylight Sensors | Lighting w/ No Controls | Street Lighting | Lin. Fluor. Lighting | New | building | 26,386 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.1 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | Early | Lamp | 38 | 19% | 0.00 | 15 | \$35 | 94% | 0.2 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 40W T12 Lamp, Magnetic Ballast | Street Lighting | Lin. Fluor. Lighting | Early | Lamp | 83 | 63% | 0.01 | 15 | \$35 | 94% | 1.1 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | Early | Lamp | 46 | 34% | 0.00 | 15 | \$35 | 94% | 0.3 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | Early | Lamp | 45 | 32% | 0.00 | 15 | \$35 | 94% | 0.3 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | New | Lamp | 29 | 19% | 0.00 | 15 | \$28 | 94% | 0.1 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | New | Lamp | 34 | 32% | 0.00 | 15 | \$29 | 94% | 0.3 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | New | Lamp | 35 | 34% | 0.00 | 15 | \$22 | 94% | 0.4 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | New | Lamp | 34 | 32% | 0.00 | 15 | \$29 | 94% | 0.3 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | ROB | Lamp | 38 | 19% | 0.00 | 15 | \$28 | 94% | 0.2 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | ROB | Lamp | 45 | 32% | 0.00 | 15 | \$29 | 94% | 0.4 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | ROB | Lamp | 46 | 34% | 0.00 | 15 | \$22 | 94% | 0.5 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | ROB | Lamp | 45 | 32% | 0.00 | 15 | \$29 | 94% | 0.4 |
| FE-Met Ed | Occupancy Sensor | Lighting w/ No Controls | Street Lighting | Lin. Fluor. Lighting | Existing | building | 26,386 | 24% | 0.2 | 8 | \$1,558 | 12% | 1.4 |
| FE-Met Ed | Occupancy Sensor | Lighting w/ No Controls | Street Lighting | Lin. Fluor. Lighting | New | building | 26,386 | 7.0% | 0.07 | 8 | \$1,558 | 0% | 0.4 |
| FE-Met Ed | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Street Lighting | Lin. Fluor. Lighting | Existing | building | 26,386 | 28% | 0.3 | 8 | \$5,088 | 11% | 0.5 |
| FE-Met Ed | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Street Lighting | Lin. Fluor. Lighting | New | building | 26,386 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.1 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 40W T12 w/ Magnetic Ballast | Street Lighting | Lin. Fluor. Lighting | Early | Lamp | 175 | 54% | 0.02 | 12 | \$9.1 | 94% | 6.4 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | Early | Lamp | 112 | 28% | 0.01 | 12 | \$9.1 | 24% | 2.1 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | Early | Lamp | 108 | 26% | 0.01 | 12 | \$9.1 | 94% | 1.9 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | New | Lamp | 82 | 26% | 0.00 | 12 | \$2.5 | 94% | 5.2 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | New | Lamp | 82 | 26% | 0.00 | 12 | \$2.5 | 94% | 5.2 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | New | Lamp | 85 | 28% | 0.00 | 12 | \$2.5 | 24% | 5.9 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | New | Lamp | 82 | 26% | 0.00 | 12 | \$2.5 | 94% | 5.2 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | ROB | Lamp | 108 | 26% | 0.01 | 12 | \$2.5 | 94% | 6.9 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | ROB | Lamp | 108 | 26% | 0.01 | 12 | \$2.5 | 94% | 6.9 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | ROB | Lamp | 112 | 28% | 0.01 | 12 | \$2.5 | 24% | 7.7 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | ROB | Lamp | 108 | 26% | 0.01 | 12 | \$2.5 | 94% | 6.9 |
| FE-Met Ed | T8 Lamp (any length) Electronic Ballast | Standard T12 lamp (any length) | Street Lighting | Lin. Fluor. Lighting | Early | Lamp | 206 | 42% | 0.02 | 12 | \$14 | 94% | 3.8 |
| FE-Met Ed | Time Clock Control | Lighting w/ No Controls | Street Lighting | Lin. Fluor. Lighting | Existing | building | 26,386 | 28% | 0.3 | 8 | \$1,034 | 14% | 2.5 |
| FE-Met Ed | Time Clock Control | Lighting w/ No Controls | Street Lighting | Lin. Fluor. Lighting | New | building | 26,386 | 4.1% | 0.04 | 8 | \$1,034 | 0% | 0.4 |
| FE-Met Ed | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | Early | motor | 3,361 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| FE-Met Ed | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | Early | motor | 3,361 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| FE-Met Ed | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | Early | motor | 3,361 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| FE-Met Ed | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | Early | motor | 3,361 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| FE-Met Ed | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | New | motor | 3,259 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-Met Ed | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | New | motor | 3,259 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-Met Ed | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | New | motor | 3,259 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| FE-Met Ed | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | New | motor | 3,259 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| FE-Met Ed | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | ROB | motor | 3,259 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-Met Ed | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | ROB | motor | 3,259 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-Met Ed | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | ROB | motor | 3,259 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| FE-Met Ed | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | ROB | motor | 3,259 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-Met Ed | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | Early | motor | 4,956 | 3.1% | 0.02 | 15 | \$402 | 76% | 0.3 |
| FE-Met Ed | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | Early | motor | 4,956 | 3.1% | 0.02 | 15 | \$402 | 76% | 0.3 |
| FE-Met Ed | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | Early | motor | 4,956 | 3.1% | 0.02 | 15 | \$402 | 76% | 0.3 |
| FE-Met Ed | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | Early | motor | 4,956 | 3.1% | 0.02 | 15 | \$402 | 76% | 0.3 |
| FE-Met Ed | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | New | motor | 4,832 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.3 |
| FE-Met Ed | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | New | motor | 4,832 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.3 |
| FE-Met Ed | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | New | motor | 4,832 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.3 |
| FE-Met Ed | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | New | motor | 4,832 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.3 |
| FE-Met Ed | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | ROB | motor | 4,832 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.3 |
| FE-Met Ed | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | ROB | motor | 4,832 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.3 |
| FE-Met Ed | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | ROB | motor | 4,832 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|---|-----------------|---------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | New | motor | 219,972 | 0.6% | 0.1 | 15 | \$554 | 61% | 1.5 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | New | motor | 219,972 | 0.6% | 0.1 | 15 | \$554 | 61% | 1.5 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | New | motor | 219,972 | 0.6% | 0.1 | 15 | \$554 | 61% | 1.5 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | New | motor | 219,972 | 0.6% | 0.2 | 15 | \$554 | 61% | 1.6 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | New | motor | 219,972 | 0.6% | 0.1 | 15 | \$554 | 61% | 1.5 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | ROB | motor | 219,972 | 0.6% | 0.1 | 15 | \$554 | 61% | 1.5 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | ROB | motor | 219,972 | 0.6% | 0.1 | 15 | \$554 | 61% | 1.5 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | ROB | motor | 219,972 | 0.6% | 0.1 | 15 | \$554 | 61% | 1.5 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | ROB | motor | 219,972 | 0.6% | 0.2 | 15 | \$554 | 61% | 1.6 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | ROB | motor | 219,972 | 0.6% | 0.1 | 15 | \$554 | 61% | 1.5 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Street Lighting | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 23.2 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Street Lighting | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 23.7 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Street Lighting | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 24.0 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Street Lighting | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 24.3 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Street Lighting | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 25.0 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Street Lighting | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 23.0 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Street Lighting | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 23.5 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Street Lighting | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 24.1 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Street Lighting | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 24.6 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Street Lighting | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 24.8 |
| FE-Met Ed | Escalator Motor Controller | Constant power control | Street Lighting | Motors | New | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 45% | 6.3 |
| FE-Met Ed | Escalator Motor Controller | Constant power control | Street Lighting | Motors | ROB | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 45% | 6.3 |
| FE-Met Ed | Variable Speed Drive Control, 15HP | Existing Motors w/out VSD Drive | Street Lighting | Motors | Early | motor | 45,928 | 70% | 4.7 | 15 | \$731 | 86% | 30.8 |
| FE-Met Ed | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Street Lighting | Motors | New | motor | 44,940 | 72% | 4.7 | 15 | \$731 | 86% | 30.8 |
| FE-Met Ed | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Street Lighting | Motors | ROB | motor | 44,940 | 72% | 4.7 | 15 | \$731 | 86% | 30.8 |
| FE-Met Ed | Variable Speed Drive Control, 40HP | Existing Motors w/out VSD Drive | Street Lighting | Motors | Early | motor | 119,841 | 71% | 12.5 | 15 | \$4,666 | 86% | 12.7 |
| FE-Met Ed | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Street Lighting | Motors | New | motor | 118,440 | 72% | 12.5 | 15 | \$4,666 | 86% | 12.7 |
| FE-Met Ed | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Street Lighting | Motors | ROB | motor | 118,440 | 72% | 12.5 | 15 | \$4,666 | 86% | 12.7 |
| FE-Met Ed | Variable Speed Drive Control, 5HP | Existing Motors w/out VFD Drive | Street Lighting | Motors | Early | motor | 15,922 | 72% | 1.7 | 15 | \$2,243 | 86% | 3.6 |
| FE-Met Ed | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Street Lighting | Motors | New | motor | 15,566 | 72% | 1.6 | 15 | \$2,243 | 86% | 3.5 |
| FE-Met Ed | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Street Lighting | Motors | ROB | motor | 15,566 | 72% | 1.6 | 15 | \$2,243 | 86% | 3.5 |
| FE-Met Ed | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Street Lighting | Motors | Early | motor | 4,943 | 23% | 0.1 | 15 | \$268 | 13% | 2.8 |
| FE-Met Ed | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Street Lighting | Motors | New | motor | 4,943 | 23% | 0.1 | 15 | \$268 | 13% | 2.8 |
| FE-Met Ed | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Street Lighting | Motors | ROB | motor | 4,943 | 23% | 0.1 | 15 | \$268 | 13% | 2.8 |
| FE-Met Ed | VFD on Chilled Water Pump | Motor w/out VFD Drive | Street Lighting | Motors | Early | motor | 16,590 | 55% | 1.2 | 15 | \$2,903 | 86% | 2.1 |
| FE-Met Ed | VFD on Chilled Water Pump | Motor w/out VFD Drive | Street Lighting | Motors | New | motor | 16,280 | 55% | 1.2 | 15 | \$2,843 | 86% | 2.1 |
| FE-Met Ed | VFD on Chilled Water Pump | Motor w/out VFD Drive | Street Lighting | Motors | ROB | motor | 16,280 | 55% | 1.2 | 15 | \$2,843 | 86% | 2.1 |
| FE-Met Ed | VFD on Condenser Water Pump | Motor w/out VFD Drive | Street Lighting | Motors | Early | motor | 18,641 | 32% | 0.8 | 15 | \$2,903 | 86% | 1.4 |
| FE-Met Ed | VFD on Condenser Water Pump | Motor w/out VFD Drive | Street Lighting | Motors | New | motor | 18,292 | 33% | 0.8 | 15 | \$2,843 | 86% | 1.4 |
| FE-Met Ed | VFD on Condenser Water Pump | Motor w/out VFD Drive | Street Lighting | Motors | ROB | motor | 18,292 | 33% | 0.8 | 15 | \$2,843 | 86% | 1.4 |
| FE-Met Ed | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Street Lighting | Motors | Early | motor | 27,718 | 56% | 2.0 | 15 | \$2,903 | 86% | 3.6 |
| FE-Met Ed | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Street Lighting | Motors | New | motor | 27,199 | 57% | 2.0 | 15 | \$2,843 | 86% | 3.6 |
| FE-Met Ed | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Street Lighting | Motors | ROB | motor | 27,199 | 57% | 2.0 | 15 | \$2,843 | 86% | 3.6 |
| FE-Met Ed | VFD on HVAC Fan | Motor w/out VFD | Street Lighting | Motors | Early | motor | 18,724 | 70% | 1.9 | 15 | \$2,903 | 86% | 3.2 |
| FE-Met Ed | VFD on HVAC Fan | Motor w/out VFD | Street Lighting | Motors | New | motor | 18,373 | 72% | 1.9 | 15 | \$2,843 | 86% | 3.2 |
| FE-Met Ed | VFD on HVAC Fan | Motor w/out VFD | Street Lighting | Motors | ROB | motor | 18,373 | 72% | 1.9 | 15 | \$2,843 | 86% | 3.2 |
| FE-Met Ed | Variable Speed Drives on Process Equipment | Constant speed control | Street Lighting | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 11.3 |
| FE-Met Ed | Variable Speed Drives on Process Equipment | Constant speed control | Street Lighting | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 11.3 |
| FE-Met Ed | Auto Off Time Switch | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | Existing | building | 2,992 | 24% | 0.2 | 8 | \$1,034 | 13% | 0.4 |
| FE-Met Ed | Auto Off Time Switch | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | New | building | 2,992 | 7.0% | 0.07 | 8 | \$1,034 | 0% | 0.1 |
| FE-Met Ed | Central Lighting Control System | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | Existing | building | 2,992 | 38% | 0.4 | 8 | \$1,034 | 13% | 0.6 |
| FE-Met Ed | Central Lighting Control System | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | New | building | 2,992 | 14% | 0.1 | 8 | \$1,034 | 13% | 0.2 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 40W Incandescent Bulb | Street Lighting | Other Int. Lighting | Early | lamp | 87 | 87% | 0.01 | 15 | \$30 | 14% | 1.8 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | Early | lamp | 62 | 81% | 0.01 | 15 | \$30 | 11% | 1.2 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | New | lamp | 47 | 81% | 0.01 | 15 | \$21 | 14% | 1.3 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | New | lamp | 47 | 81% | 0.01 | 15 | \$23 | 14% | 1.2 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | New | lamp | 47 | 81% | 0.01 | 15 | \$22 | 11% | 1.3 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | ROB | lamp | 62 | 81% | 0.01 | 15 | \$21 | 14% | 1.7 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | ROB | lamp | 62 | 81% | 0.01 | 15 | \$23 | 14% | 1.6 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | ROB | lamp | 62 | 81% | 0.01 | 15 | \$22 | 11% | 1.7 |
| FE-Met Ed | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Street Lighting | Other Int. Lighting | Early | lamp | 87 | 75% | 0.01 | 7 | \$73 | 24% | 0.3 |
| FE-Met Ed | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Street Lighting | Other Int. Lighting | New | fixture | 95 | 65% | 0.01 | 13 | \$29 | 28% | 1.4 |
| FE-Met Ed | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | New | lamp | 47 | 65% | 0.01 | 7 | \$29 | 28% | 0.4 |
| FE-Met Ed | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Street Lighting | Other Int. Lighting | ROB | fixture | 125 | 65% | 0.01 | 13 | \$29 | 24% | 1.8 |
| FE-Met Ed | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | ROB | lamp | 62 | 65% | 0.01 | 7 | \$29 | 24% | 0.6 |
| FE-Met Ed | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Street Lighting | Other Int. Lighting | Early | lamp | 87 | 75% | 0.01 | 7 | \$3.2 | 24% | 8.0 |
| FE-Met Ed | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | New | lamp | 47 | 65% | 0.01 | 7 | \$1.8 | 24% | 6.8 |
| FE-Met Ed | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | ROB | lamp | 62 | 65% | 0.01 | 7 | \$1.8 | 24% | 8.9 |
| FE-Met Ed | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | ROB | lamp | 62 | 65% | 0.01 | 7 | \$1.8 | 24% | 8.9 |
| FE-Met Ed | Exit Sign Retrofit: CFL replacing Incandescent | One 23W Single Sided Incandescent Exit Sign | Street Lighting | Other Int. Lighting | Early | exit sign | 139 | 42% | 0.01 | 15 | \$48 | 22% | 0.8 |
| FE-Met Ed | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Street Lighting | Other Int. Lighting | New | building | 2,992 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.0 |
| FE-Met Ed | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Street Lighting | Other Int. Lighting | New | building | 2,992 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |
| FE-Met Ed | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Street Lighting | Other Int. Lighting | New | building | 2,992 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| FE-Met Ed | Indoor Daylight Sensors | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | Existing | building | 2,992 | 28% | 0.3 | 8 | \$5,088 | 13% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|--|---|-----------------|---------------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Indoor Daylight Sensors | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | New | building | 2,992 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| FE-Met Ed | LED Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Street Lighting | Other Int. Lighting | Early | sign | 153 | 87% | 0.02 | 15 | \$48 | 16% | 1.9 |
| FE-Met Ed | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Street Lighting | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 2.1 |
| FE-Met Ed | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Street Lighting | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 2.1 |
| FE-Met Ed | LED Task Lighting/Screw-In | 1 15W CFL bulb | Street Lighting | Other Int. Lighting | Early | lamp | 22 | 33% | 0.00 | 15 | \$9.6 | 24% | 0.6 |
| FE-Met Ed | LED Task Lighting/Screw-In | 1 60W Incandescent Bulb | Street Lighting | Other Int. Lighting | Early | lamp | 89 | 83% | 0.01 | 15 | \$9.6 | 24% | 5.6 |
| FE-Met Ed | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Street Lighting | Other Int. Lighting | New | lamp | 49 | 77% | 0.01 | 15 | \$7.9 | 24% | 3.4 |
| FE-Met Ed | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Street Lighting | Other Int. Lighting | New | lamp | 49 | 77% | 0.01 | 15 | \$7.9 | 24% | 3.4 |
| FE-Met Ed | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Street Lighting | Other Int. Lighting | ROB | lamp | 64 | 77% | 0.01 | 15 | \$7.9 | 24% | 4.5 |
| FE-Met Ed | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Street Lighting | Other Int. Lighting | ROB | lamp | 64 | 77% | 0.01 | 15 | \$7.9 | 24% | 4.5 |
| FE-Met Ed | Occupancy Sensor | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | Existing | building | 2,992 | 24% | 0.2 | 8 | \$1,558 | 11% | 0.2 |
| FE-Met Ed | Occupancy Sensor | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | New | building | 2,992 | 7.0% | 0.07 | 8 | \$1,558 | 0% | 0.1 |
| FE-Met Ed | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | Existing | building | 2,992 | 28% | 0.3 | 8 | \$5,088 | 11% | 0.1 |
| FE-Met Ed | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | New | building | 2,992 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| FE-Met Ed | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Street Lighting | Other Int. Lighting | Early | exit sign | 139 | 100% | 0.02 | 15 | \$173 | 26% | 0.5 |
| FE-Met Ed | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Street Lighting | Other Int. Lighting | New | exit sign | 80 | 100% | 0.01 | 15 | \$148 | 31% | 0.4 |
| FE-Met Ed | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Street Lighting | Other Int. Lighting | ROB | exit sign | 80 | 100% | 0.01 | 15 | \$148 | 26% | 0.4 |
| FE-Met Ed | Time Clock Control | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | Existing | building | 2,992 | 28% | 0.3 | 8 | \$1,034 | 13% | 0.4 |
| FE-Met Ed | Time Clock Control | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | New | building | 2,992 | 4.1% | 0.04 | 8 | \$1,034 | 0% | 0.1 |
| FE-Met Ed | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Street Lighting | Plug Load | Existing | building | 2,178 | 46% | 0.5 | 5 | \$189 | 4% | 2.1 |
| FE-Met Ed | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Street Lighting | Plug Load | New | building | 2,178 | 46% | 0.5 | 5 | \$189 | 4% | 2.1 |
| FE-Met Ed | Data Center - Server/Storage Consolidation | No Consolidation | Street Lighting | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Met Ed | Data Center - Server/Storage Consolidation | No Consolidation | Street Lighting | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Met Ed | Data Center - Server/Storage Virtualization | No Virtualization | Street Lighting | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Met Ed | Data Center - Server/Storage Virtualization | No Virtualization | Street Lighting | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Met Ed | Energy Star - Scanners | Std Scanner | Street Lighting | Plug Load | New | measure | 68 | 3.8% | 0.04 | 4 | \$130 | 7% | 0.1 |
| FE-Met Ed | Energy Star - Scanners | Std Scanner | Street Lighting | Plug Load | ROB | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| FE-Met Ed | Energy Star Dishwasher | Existing Dishwasher units | Street Lighting | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,580 | 0% | 1.1 |
| FE-Met Ed | Energy Star Dishwasher | Standard Dishwasher unit | Street Lighting | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 0% | 3.5 |
| FE-Met Ed | Energy Star Dishwasher | Standard Dishwasher unit | Street Lighting | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 0% | 3.5 |
| FE-Met Ed | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Street Lighting | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 17% | 0.2 |
| FE-Met Ed | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Street Lighting | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.1 |
| FE-Met Ed | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Street Lighting | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.1 |
| FE-Met Ed | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Street Lighting | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 9% | 0.8 |
| FE-Met Ed | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Street Lighting | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.7 |
| FE-Met Ed | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Street Lighting | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.7 |
| FE-Met Ed | ENERGY STAR® Copiers | 10% Less Efficient Copier | Street Lighting | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 80% | 0.0 |
| FE-Met Ed | ENERGY STAR® Copiers | One Conventional Copier | Street Lighting | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 80% | 0.0 |
| FE-Met Ed | ENERGY STAR® Copiers | One Conventional Copier | Street Lighting | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 80% | 0.0 |
| FE-Met Ed | ENERGY STAR® desktop | Standard computer | Street Lighting | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 87% | 0.1 |
| FE-Met Ed | ENERGY STAR® desktop | Standard computer | Street Lighting | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 87% | 2.4 |
| FE-Met Ed | ENERGY STAR® desktop | Standard computer | Street Lighting | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 87% | 2.4 |
| FE-Met Ed | ENERGY STAR® Fax | 10% Less Efficient Fax | Street Lighting | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 89% | 0.0 |
| FE-Met Ed | ENERGY STAR® Fax | One Conventional Fax | Street Lighting | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 89% | 0.2 |
| FE-Met Ed | ENERGY STAR® Fax | One Conventional Fax | Street Lighting | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 89% | 0.2 |
| FE-Met Ed | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Street Lighting | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 89% | 0.0 |
| FE-Met Ed | ENERGY STAR® Monitors | One Conventional Monitor | Street Lighting | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 89% | 0.0 |
| FE-Met Ed | ENERGY STAR® Monitors | One Conventional Monitor | Street Lighting | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 89% | 0.0 |
| FE-Met Ed | ENERGY STAR® Printers | 10% Less Efficient Printer | Street Lighting | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 89% | 0.0 |
| FE-Met Ed | ENERGY STAR® Printers | One Conventional Printer | Street Lighting | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 89% | 0.4 |
| FE-Met Ed | ENERGY STAR® Printers | One Conventional Printer | Street Lighting | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$130 | 89% | 0.4 |
| FE-Met Ed | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Street Lighting | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 87% | 0.1 |
| FE-Met Ed | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Street Lighting | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 87% | 0.8 |
| FE-Met Ed | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Street Lighting | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 87% | 0.8 |
| FE-Met Ed | ENERGY STAR® Televisions | 10% Less Efficient Television | Street Lighting | Plug Load | Early | Unit | 111 | 38% | 0.01 | 6 | \$672 | 85% | 0.0 |
| FE-Met Ed | ENERGY STAR® Televisions | One Conventional Television | Street Lighting | Plug Load | New | Unit | 101 | 32% | 0.01 | 6 | \$206 | 85% | 0.1 |
| FE-Met Ed | ENERGY STAR® Televisions | One Conventional Television | Street Lighting | Plug Load | ROB | Unit | 101 | 32% | 0.01 | 6 | \$206 | 85% | 0.1 |
| FE-Met Ed | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Street Lighting | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 81% | 0.3 |
| FE-Met Ed | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Street Lighting | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 81% | 0.7 |
| FE-Met Ed | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Street Lighting | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 81% | 0.7 |
| FE-Met Ed | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Street Lighting | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.3 |
| FE-Met Ed | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Street Lighting | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.3 |
| FE-Met Ed | Network PC Power Management | No PC Power Management | Street Lighting | Plug Load | Existing | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 18.5 |
| FE-Met Ed | Network PC Power Management | No PC Power Management | Street Lighting | Plug Load | New | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 18.5 |
| FE-Met Ed | Smart Strip Plug Outlets | Standard plug strip/outlet | Street Lighting | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.5 |
| FE-Met Ed | Smart Strip Plug Outlets | Standard plug strip/outlet | Street Lighting | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.5 |
| FE-Met Ed | Smart Strip Plug Outlets | Standard plug strip/outlet | Street Lighting | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Met Ed | Smart Strip Plug Outlets | Standard plug strip/outlet | Street Lighting | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|--|-----------------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Smart Strip Plug Outlets | Standard plug strip/outlet | Street Lighting | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Met Ed | Smart Strip Plug Outlets | Standard plug strip/outlet | Street Lighting | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Met Ed | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Street Lighting | Plug Load | Existing | building | 2,178 | 46% | 0.5 | 5 | \$180 | 3% | 2.2 |
| FE-Met Ed | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Street Lighting | Plug Load | New | building | 2,178 | 46% | 0.5 | 5 | \$180 | 3% | 2.2 |
| FE-Met Ed | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Street Lighting | Refrigeration | Existing | building | 226 | 2.1% | 0.02 | 12 | \$70 | 11% | 0.3 |
| FE-Met Ed | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Street Lighting | Refrigeration | New | building | 226 | 2.1% | 0.02 | 12 | \$70 | 11% | 0.3 |
| FE-Met Ed | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Street Lighting | Refrigeration | Existing | building | 226 | 7.0% | 0.07 | 12 | \$70 | 11% | 0.9 |
| FE-Met Ed | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Street Lighting | Refrigeration | New | building | 226 | 7.0% | 0.07 | 12 | \$70 | 11% | 0.9 |
| FE-Met Ed | Auto Closer on Refrigerator Door | Door w/out Autocloser | Street Lighting | Refrigeration | Existing | building | 1,187 | 48% | 0.5 | 8 | \$747 | 40% | 0.6 |
| FE-Met Ed | Auto Closer on Refrigerator Door | Door w/out Autocloser | Street Lighting | Refrigeration | Existing | building | 4,070 | 17% | 0.2 | 8 | \$476 | 40% | 0.7 |
| FE-Met Ed | Auto Closer on Refrigerator Door | Door w/out Autocloser | Street Lighting | Refrigeration | New | building | 1,187 | 48% | 0.5 | 8 | \$747 | 40% | 0.6 |
| FE-Met Ed | Auto Closer on Refrigerator Door | Door w/out Autocloser | Street Lighting | Refrigeration | New | building | 4,070 | 17% | 0.2 | 8 | \$476 | 40% | 0.7 |
| FE-Met Ed | Demand Hot Gas Defrost | Base Refrigeration System | Street Lighting | Refrigeration | Existing | measure | 226 | 3.0% | 0.03 | 10 | \$1,405 | 0% | 0.0 |
| FE-Met Ed | Demand Hot Gas Defrost | Base Refrigeration System | Street Lighting | Refrigeration | New | measure | 226 | 3.0% | 0.03 | 10 | \$1,405 | 0% | 0.0 |
| FE-Met Ed | Door Gasket- Freezer | Door w/out Gasket | Street Lighting | Refrigeration | Existing | building | 1,187 | 26% | 0.3 | 4 | \$77 | 29% | 1.8 |
| FE-Met Ed | Door Gasket- Freezer | Door w/out Gasket | Street Lighting | Refrigeration | New | building | 1,187 | 26% | 0.3 | 4 | \$77 | 29% | 1.8 |
| FE-Met Ed | Door Gasket- Refrigerator | Door w/out Gasket | Street Lighting | Refrigeration | Existing | building | 4,070 | 5.4% | 0.05 | 4 | \$66 | 45% | 0.9 |
| FE-Met Ed | Door Gasket- Refrigerator | Door w/out Gasket | Street Lighting | Refrigeration | New | building | 4,070 | 5.4% | 0.05 | 4 | \$66 | 45% | 0.9 |
| FE-Met Ed | eCube | Refrigeration unit w/out eCube | Street Lighting | Refrigeration | Existing | building | 4,070 | 15% | 0.2 | 15 | \$504 | 57% | 0.9 |
| FE-Met Ed | eCube | Refrigeration unit w/out eCube | Street Lighting | Refrigeration | New | building | 4,070 | 15% | 0.2 | 15 | \$504 | 57% | 0.9 |
| FE-Met Ed | Efficient compressor motor | Base Refrigeration System - Grocery | Street Lighting | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| FE-Met Ed | Efficient compressor motor | Base Refrigeration System - Grocery | Street Lighting | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| FE-Met Ed | Efficient compressor motor | Base Refrigeration System - Grocery | Street Lighting | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| FE-Met Ed | Efficient compressor motor | Base Refrigeration System - Grocery | Street Lighting | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| FE-Met Ed | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Street Lighting | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.6 |
| FE-Met Ed | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Street Lighting | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| FE-Met Ed | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Street Lighting | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| FE-Met Ed | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Street Lighting | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.3 |
| FE-Met Ed | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Street Lighting | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.8 |
| FE-Met Ed | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Street Lighting | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.8 |
| FE-Met Ed | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Street Lighting | Refrigeration | Existing | building | 4,070 | 3.1% | 0.03 | 10 | \$369 | 77% | 0.2 |
| FE-Met Ed | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Street Lighting | Refrigeration | New | building | 4,070 | 3.1% | 0.03 | 10 | \$369 | 77% | 0.2 |
| FE-Met Ed | Floating head pressure controller | System w/out FHPC | Street Lighting | Refrigeration | Existing | building | 1,187 | 19% | 0.05 | 15 | \$8,682 | 41% | 0.0 |
| FE-Met Ed | Floating head pressure controller | System w/out FHPC | Street Lighting | Refrigeration | Existing | building | 226 | 44% | 0.02 | 15 | \$8,682 | 41% | 0.0 |
| FE-Met Ed | Floating head pressure controller | System w/out FHPC | Street Lighting | Refrigeration | Existing | building | 4,070 | 2.0% | 0.02 | 15 | \$8,682 | 41% | 0.0 |
| FE-Met Ed | Floating head pressure controller | System w/out FHPC | Street Lighting | Refrigeration | New | building | 1,187 | 19% | 0.05 | 15 | \$8,682 | 41% | 0.0 |
| FE-Met Ed | Floating head pressure controller | System w/out FHPC | Street Lighting | Refrigeration | New | building | 226 | 44% | 0.02 | 15 | \$8,682 | 41% | 0.0 |
| FE-Met Ed | Floating head pressure controller | System w/out FHPC | Street Lighting | Refrigeration | New | building | 4,070 | 2.0% | 0.02 | 15 | \$8,682 | 41% | 0.0 |
| FE-Met Ed | High Efficiency Commercial Freezer | Std. Commercial Freezer | Street Lighting | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 86% | 0.3 |
| FE-Met Ed | High Efficiency Commercial Freezer | Std. Commercial Freezer | Street Lighting | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 4.1 |
| FE-Met Ed | High Efficiency Commercial Freezer | Std. Commercial Freezer | Street Lighting | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 4.1 |
| FE-Met Ed | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Street Lighting | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 2% | 0.1 |
| FE-Met Ed | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Street Lighting | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.9 |
| FE-Met Ed | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Street Lighting | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.9 |
| FE-Met Ed | High Efficiency Ice Maker | Existing Standard Efficiency Ice Maker in Pennsylvania | Street Lighting | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 73% | 0.2 |
| FE-Met Ed | High Efficiency Ice Maker | Standard code minimum Ice Maker | Street Lighting | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| FE-Met Ed | High Efficiency Ice Maker | Standard code minimum Ice Maker | Street Lighting | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| FE-Met Ed | High Efficiency Ice Making Head | Standard Ice Making Head | Street Lighting | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 4.0 |
| FE-Met Ed | High Efficiency Ice Making Head | Standard Ice Making Head | Street Lighting | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 4.0 |
| FE-Met Ed | High R-Value Glass Doors | Base Refrigeration System - Grocery | Street Lighting | Refrigeration | Existing | building | 226 | 0.7% | 0.01 | 10 | \$8.8 | 0% | 0.6 |
| FE-Met Ed | High R-Value Glass Doors | Base Refrigeration System - Grocery | Street Lighting | Refrigeration | New | building | 226 | 0.7% | 0.01 | 10 | \$8.8 | 0% | 0.6 |
| FE-Met Ed | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Street Lighting | Refrigeration | Early | Fixture | 373 | 56% | 0.01 | 8 | \$448 | 47% | 0.2 |
| FE-Met Ed | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Street Lighting | Refrigeration | New | Fixture | 291 | 44% | 0.00 | 8 | \$139 | 47% | 0.3 |
| FE-Met Ed | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Street Lighting | Refrigeration | ROB | Fixture | 291 | 44% | 0.00 | 8 | \$139 | 47% | 0.3 |
| FE-Met Ed | No-heat glass doors | Standard low-temp reach-in | Street Lighting | Refrigeration | Existing | building | 226 | 20% | 0.2 | 10 | \$805 | 8% | 0.2 |
| FE-Met Ed | No-heat glass doors | Standard low-temp reach-in | Street Lighting | Refrigeration | New | building | 226 | 20% | 0.2 | 10 | \$805 | 8% | 0.2 |
| FE-Met Ed | Quick acting freezer doors | Std. Freezer Doors | Street Lighting | Refrigeration | Existing | building | 1,187 | 13% | 0.1 | 10 | \$446 | 56% | 0.3 |
| FE-Met Ed | Quick acting freezer doors | Std. Freezer Doors | Street Lighting | Refrigeration | New | building | 1,187 | 13% | 0.1 | 10 | \$446 | 56% | 0.3 |
| FE-Met Ed | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Street Lighting | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 30% | 0.4 |
| FE-Met Ed | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Street Lighting | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.6 |
| FE-Met Ed | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Street Lighting | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.6 |
| FE-Met Ed | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 30% | 1.7 |
| FE-Met Ed | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 3.0 |
| FE-Met Ed | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 3.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|---|-----------------|-----------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 30% | 1.7 |
| FE-Met Ed | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 4.0 |
| FE-Met Ed | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 4.0 |
| FE-Met Ed | Refrigeration Commissioning | Non-commissioned refrigeration system | Street Lighting | Refrigeration | Existing | building | 5,653 | 9.5% | 0.10 | 3 | \$1,204 | 85% | 0.1 |
| FE-Met Ed | Refrigeration Commissioning | Non-commissioned refrigeration system | Street Lighting | Refrigeration | New | building | 5,653 | 9.5% | 0.10 | 3 | \$1,204 | 85% | 0.1 |
| FE-Met Ed | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Street Lighting | Refrigeration | Existing | building | 1,187 | 62% | 0.6 | 4 | \$93 | 22% | 3.6 |
| FE-Met Ed | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Street Lighting | Refrigeration | Existing | building | 4,070 | 7.6% | 0.08 | 4 | \$80 | 22% | 1.0 |
| FE-Met Ed | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Street Lighting | Refrigeration | New | building | 1,187 | 62% | 0.6 | 4 | \$93 | 22% | 3.6 |
| FE-Met Ed | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Street Lighting | Refrigeration | New | building | 4,070 | 7.6% | 0.08 | 4 | \$80 | 22% | 1.0 |
| FE-Met Ed | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Street Lighting | Refrigeration | Existing | building | 1,187 | 11% | 0.1 | 11 | \$119 | 79% | 1.1 |
| FE-Met Ed | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Street Lighting | Refrigeration | New | building | 1,187 | 11% | 0.1 | 11 | \$119 | 79% | 1.1 |
| FE-Met Ed | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Street Lighting | Refrigeration | Existing | building | 4,070 | 8.1% | 0.08 | 11 | \$119 | 79% | 1.7 |
| FE-Met Ed | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Street Lighting | Refrigeration | New | building | 4,070 | 8.1% | 0.08 | 11 | \$119 | 79% | 1.7 |
| FE-Met Ed | Vertical Night Covers | Display cases w/out night covers-High Temperature | Street Lighting | Refrigeration | Existing | building | 226 | 1.1% | 0.01 | 5 | \$52 | 9% | 0.1 |
| FE-Met Ed | Vertical Night Covers | Display cases w/out night covers-High Temperature | Street Lighting | Refrigeration | New | building | 226 | 1.1% | 0.01 | 5 | \$52 | 9% | 0.1 |
| FE-Met Ed | VSD Controlled Compressor | Compressor w/out VSD | Street Lighting | Refrigeration | Early | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.2 |
| FE-Met Ed | VSD Controlled Compressor | Compressor w/out VSD | Street Lighting | Refrigeration | New | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.2 |
| FE-Met Ed | VSD Controlled Compressor | Compressor w/out VSD | Street Lighting | Refrigeration | ROB | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.2 |
| FE-Met Ed | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Street Lighting | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$269 | 35% | 0.9 |
| FE-Met Ed | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Street Lighting | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$269 | 35% | 0.9 |
| FE-Met Ed | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Street Lighting | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.2 |
| FE-Met Ed | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Street Lighting | Refrigeration | New | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 3.0 |
| FE-Met Ed | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Street Lighting | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.2 |
| FE-Met Ed | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Street Lighting | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 3.0 |
| FE-Met Ed | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 35% | 2.4 |
| FE-Met Ed | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 35% | 2.3 |
| FE-Met Ed | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 5.2 |
| FE-Met Ed | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.9 |
| FE-Met Ed | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 5.2 |
| FE-Met Ed | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.9 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Street Lighting | Space Heating | Existing | building | 8,143 | 7.1% | 0.07 | 6 | \$12,500 | 82% | 0.0 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Street Lighting | Space Heating | New | building | 8,143 | 7.1% | 0.07 | 6 | \$12,500 | 82% | 0.0 |
| FE-Met Ed | Adding window shade film | No shade film | Street Lighting | Space Heating | Existing | building | 8,143 | 1.3% | 0.4 | 10 | \$99 | 13% | 3.1 |
| FE-Met Ed | Adding window shade film | No shade film | Street Lighting | Space Heating | New | building | 8,143 | 1.3% | 0.4 | 10 | \$99 | 13% | 3.1 |
| FE-Met Ed | Adding window shade screen | No shade screen | Street Lighting | Space Heating | Existing | building | 8,143 | 1.1% | 0.01 | 10 | \$38 | 13% | 1.1 |
| FE-Met Ed | Adding window shade screen | No shade screen | Street Lighting | Space Heating | New | building | 8,143 | 1.1% | 0.01 | 10 | \$38 | 13% | 1.1 |
| FE-Met Ed | Automated control system | Manual Controls | Street Lighting | Space Heating | Existing | building | 8,143 | 17% | 0.2 | 15 | \$8,915 | 51% | 0.1 |
| FE-Met Ed | Automated control system | Manual Controls | Street Lighting | Space Heating | New | building | 8,143 | 17% | 0.2 | 15 | \$8,915 | 94% | 0.1 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Street Lighting | Space Heating | Existing | building | 8,143 | 6.2% | 0.06 | 15 | \$17,130 | 71% | 0.0 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Street Lighting | Space Heating | New | building | 8,143 | 2.1% | 0.02 | 15 | \$16,283 | 94% | 0.0 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Street Lighting | Space Heating | Existing | building | 8,143 | 1.4% | 0.04 | 15 | \$65 | 20% | 1.5 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Street Lighting | Space Heating | New | building | 8,143 | 1.4% | 0.04 | 15 | \$65 | 10% | 1.5 |
| FE-Met Ed | Efficient Unit Heating System | Existing Unit Heaters in PA | Street Lighting | Space Heating | Early | heater | 30,613 | 23% | 0.05 | 15 | \$3,289 | 83% | 1.1 |
| FE-Met Ed | Efficient Unit Heating System | Std. Unit Heater | Street Lighting | Space Heating | New | heater | 27,169 | 13% | 0.03 | 15 | \$1,991 | 83% | 0.9 |
| FE-Met Ed | Efficient Unit Heating System | Std. Unit Heater | Street Lighting | Space Heating | ROB | heater | 27,169 | 13% | 0.03 | 15 | \$1,991 | 83% | 0.9 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Street Lighting | Space Heating | Existing | building | 8,143 | 7.1% | 0.07 | 15 | \$36,120 | 25% | 0.0 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Street Lighting | Space Heating | New | building | 8,143 | 7.1% | 0.07 | 15 | \$36,120 | 35% | 0.0 |
| FE-Met Ed | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Street Lighting | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 1.1 |
| FE-Met Ed | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Street Lighting | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 1.1 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Street Lighting | Space Heating | Existing | building | 8,143 | 2.2% | 0.02 | 10 | \$7,735 | 81% | 0.0 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Street Lighting | Space Heating | New | building | 8,143 | 2.2% | 0.02 | 10 | \$7,735 | 81% | 0.0 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Street Lighting | Space Heating | Existing | building | 8,143 | 3.6% | 0.04 | 11 | \$286 | 49% | 0.5 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Street Lighting | Space Heating | New | building | 8,143 | 3.1% | 0.03 | 11 | \$146 | 49% | 0.9 |
| FE-Met Ed | Re-Commissioning (Existing Construction) | No Re-Commissioning | Street Lighting | Space Heating | Existing | building | 8,143 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |
| FE-Met Ed | VFD on Cooling Tower Fan | Motor w/out VFD | Street Lighting | Space Heating | Early | motor | 18,724 | 70% | 0.10 | 15 | \$2,843 | 88% | 2.5 |
| FE-Met Ed | VFD on Cooling Tower Fan | Motor w/out VFD | Street Lighting | Space Heating | New | motor | 18,373 | 72% | 0.10 | 15 | \$2,843 | 88% | 2.5 |
| FE-Met Ed | VFD on Cooling Tower Fan | Motor w/out VFD | Street Lighting | Space Heating | ROB | motor | 18,373 | 72% | 0.10 | 15 | \$2,843 | 88% | 2.5 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Street Lighting | Space Heating | Existing | building | 8,143 | 11% | 0.1 | 15 | \$3,285 | 26% | 0.2 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Street Lighting | Space Heating | New | building | 8,143 | 0.3% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| FE-Met Ed | Green LED Traffic Light | Green Incandescent Traffic Light | Street Lighting | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 67% | 1.3 |
| FE-Met Ed | Green LED Traffic Light | Green Incandescent Traffic Light | Street Lighting | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 67% | 0.2 |
| FE-Met Ed | Green LED Traffic Light | Green Incandescent Traffic Light | Street Lighting | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 67% | 0.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|--|---|-----------------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Street Lighting | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 4% | 3.1 |
| FE-Met Ed | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Street Lighting | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 4% | 0.4 |
| FE-Met Ed | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Street Lighting | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 4% | 0.4 |
| FE-Met Ed | Induction Street Lighting | One 100W HPS Street Light Fixture | Street Lighting | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 87% | 0.3 |
| FE-Met Ed | Induction Street Lighting | One 100W HPS Street Light Fixture | Street Lighting | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 87% | 1.8 |
| FE-Met Ed | Induction Street Lighting | One 100W HPS Street Light Fixture | Street Lighting | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 87% | 1.8 |
| FE-Met Ed | LED Street Lighting | One 100W HPS Street Light | Street Lighting | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 88% | 0.2 |
| FE-Met Ed | LED Street Lighting | One 100W HPS Street Light | Street Lighting | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 88% | 0.3 |
| FE-Met Ed | LED Street Lighting | One 100W HPS Street Light | Street Lighting | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 88% | 0.3 |
| FE-Met Ed | Red LED Traffic Light | One Red Incandescent Traffic Light | Street Lighting | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 67% | 1.7 |
| FE-Met Ed | Red LED Traffic Light | One Red Incandescent Traffic Light | Street Lighting | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 67% | 0.3 |
| FE-Met Ed | Red LED Traffic Light | One Red Incandescent Traffic Light | Street Lighting | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 67% | 0.3 |
| FE-Met Ed | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Street Lighting | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 67% | 0.1 |
| FE-Met Ed | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Street Lighting | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 67% | 0.0 |
| FE-Met Ed | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Street Lighting | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 67% | 0.0 |
| FE-Met Ed | Demand controlled Circulating Systems | Constant circulation system | Street Lighting | Water Heating | Existing | building | 2,137 | 20% | 0.2 | 15 | \$388 | 59% | 1.1 |
| FE-Met Ed | Demand controlled Circulating Systems | Constant circulation system | Street Lighting | Water Heating | New | building | 2,137 | 20% | 0.2 | 15 | \$388 | 59% | 1.1 |
| FE-Met Ed | Drainwater Heat Recovery Water Heater | No heat recovery | Street Lighting | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 2.0 |
| FE-Met Ed | Drainwater Heat Recovery Water Heater | No heat recovery | Street Lighting | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 2.0 |
| FE-Met Ed | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Street Lighting | Water Heating | Existing | building | 2,137 | 5.9% | 0.06 | 12 | \$14 | 85% | 7.6 |
| FE-Met Ed | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Street Lighting | Water Heating | New | building | 2,137 | 5.9% | 0.06 | 12 | \$4.0 | 85% | 26.5 |
| FE-Met Ed | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Street Lighting | Water Heating | Early | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 3.1 |
| FE-Met Ed | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Street Lighting | Water Heating | Early | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 3.1 |
| FE-Met Ed | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Street Lighting | Water Heating | New | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 3.1 |
| FE-Met Ed | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Street Lighting | Water Heating | New | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 3.1 |
| FE-Met Ed | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Street Lighting | Water Heating | ROB | water heater | 10,350 | 65% | 1.2 | 10 | \$1,187 | 68% | 2.9 |
| FE-Met Ed | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Street Lighting | Water Heating | ROB | water heater | 10,350 | 65% | 1.2 | 10 | \$1,187 | 68% | 2.9 |
| FE-Met Ed | Heat Recovery Unit | Base Water Heating | Street Lighting | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.7 |
| FE-Met Ed | Heat Recovery Unit | Base Water Heating | Street Lighting | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.7 |
| FE-Met Ed | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Street Lighting | Water Heating | Early | water heater | 10,645 | 5.9% | 0.1 | 15 | \$307 | 79% | 1.5 |
| FE-Met Ed | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Street Lighting | Water Heating | Early | water heater | 10,645 | 5.9% | 0.1 | 15 | \$307 | 79% | 1.5 |
| FE-Met Ed | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Street Lighting | Water Heating | New | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.8 |
| FE-Met Ed | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Street Lighting | Water Heating | New | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.8 |
| FE-Met Ed | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Street Lighting | Water Heating | ROB | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.8 |
| FE-Met Ed | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Street Lighting | Water Heating | ROB | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.8 |
| FE-Met Ed | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Street Lighting | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$466 | 81% | 41.0 |
| FE-Met Ed | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Street Lighting | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 21.4 |
| FE-Met Ed | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Street Lighting | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 21.4 |
| FE-Met Ed | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Street Lighting | Water Heating | Existing | building | 2,137 | 1.7% | 0.02 | 13 | \$5.4 | 68% | 6.1 |
| FE-Met Ed | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Street Lighting | Water Heating | New | building | 2,137 | 1.7% | 0.02 | 13 | \$5.4 | 0% | 6.1 |
| FE-Met Ed | Hot Water Circulation Pump Time-Clock | Constant circulation system | Street Lighting | Water Heating | Existing | building | 2,137 | 5.3% | 0.05 | 10 | \$8.6 | 72% | 9.6 |
| FE-Met Ed | Hot Water Circulation Pump Time-Clock | Constant circulation system | Street Lighting | Water Heating | New | building | 2,137 | 5.3% | 0.05 | 10 | \$8.6 | 72% | 9.6 |
| FE-Met Ed | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Street Lighting | Water Heating | Existing | building | 2,137 | 0.9% | 0.01 | 7 | \$22 | 78% | 0.5 |
| FE-Met Ed | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Street Lighting | Water Heating | New | building | 2,137 | 0.8% | 0.01 | 7 | \$0.5 | 78% | 18.7 |
| FE-Met Ed | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Street Lighting | Water Heating | Existing | building | 2,137 | 9.0% | 0.09 | 5 | \$300 | 0% | 0.3 |
| FE-Met Ed | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Street Lighting | Water Heating | New | building | 2,137 | 6.0% | 0.06 | 5 | \$194 | 0% | 0.3 |
| FE-Met Ed | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Street Lighting | Water Heating | Existing | building | 2,137 | 6.5% | 0.07 | 9 | \$25 | 2% | 3.7 |
| FE-Met Ed | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Street Lighting | Water Heating | New | building | 2,137 | 6.5% | 0.07 | 9 | \$6.0 | 2% | 15.6 |
| FE-Met Ed | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Street Lighting | Water Heating | Early | water heater | 10,645 | 52% | 0.4 | 15 | \$6,222 | 32% | 0.6 |
| FE-Met Ed | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Street Lighting | Water Heating | New | water heater | 10,350 | 51% | 0.4 | 15 | \$6,222 | 32% | 0.5 |
| FE-Met Ed | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Street Lighting | Water Heating | ROB | water heater | 10,350 | 51% | 0.4 | 15 | \$6,222 | 32% | 0.5 |
| FE-Met Ed | Ultrasonic Faucet Control | Manual Faucet Control | Street Lighting | Water Heating | Existing | building | 2,137 | 3.0% | 0.03 | 10 | \$370 | 77% | 0.1 |
| FE-Met Ed | Ultrasonic Faucet Control | Manual Faucet Control | Street Lighting | Water Heating | New | building | 2,137 | 3.0% | 0.03 | 10 | \$370 | 77% | 0.1 |
| FE-Met Ed | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Street Lighting | Water Heating | Existing | building | 2,137 | 2.2% | 0.02 | 4 | \$28 | 83% | 0.6 |
| FE-Met Ed | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Street Lighting | Water Heating | New | building | 2,137 | 2.3% | 0.02 | 4 | \$28 | 83% | 0.6 |
| FE-Met Ed | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Warehouse | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.2 |
| FE-Met Ed | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Warehouse | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.2 |
| FE-Met Ed | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Warehouse | Cooking | Early | steamer | 16 | 68% | 0.00 | 12 | \$5,053 | 81% | 0.0 |
| FE-Met Ed | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Warehouse | Cooking | New | steamer | 7 | 29% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-Met Ed | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Warehouse | Cooking | ROB | steamer | 7 | 29% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-Met Ed | Electric combination oven (Energy Star) | Standard Oven | Warehouse | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 3.1 |
| FE-Met Ed | Electric combination oven (Energy Star) | Standard Oven | Warehouse | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 3.1 |
| FE-Met Ed | Electric Convection Oven | Conventional convection oven w/ 65% efficiency | Warehouse | Cooking | Early | oven | 8,641 | 37% | 0.6 | 12 | \$4,119 | 81% | 0.5 |
| FE-Met Ed | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Warehouse | Cooking | New | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.8 |
| FE-Met Ed | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Warehouse | Cooking | ROB | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.8 |
| FE-Met Ed | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Warehouse | Cooking | Early | fryer | 6,105 | 23% | 0.3 | 12 | \$9,241 | 86% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|--|--|-----------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Warehouse | Cooking | New | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.4 |
| FE-Met Ed | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Warehouse | Cooking | ROB | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.4 |
| FE-Met Ed | High Efficiency Griddle (ENERGY STAR) | Efficiency code minimum griddle (70% eff) | Warehouse | Cooking | Early | griddle | 11,317 | 65% | 1.4 | 12 | \$4,977 | 86% | 0.9 |
| FE-Met Ed | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Warehouse | Cooking | New | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.3 |
| FE-Met Ed | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Warehouse | Cooking | ROB | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.3 |
| FE-Met Ed | High Efficiency Induction Cooking | Standard Cooking | Warehouse | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-Met Ed | High Efficiency Induction Cooking | Standard Cooking | Warehouse | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Warehouse | Cooling Central | Existing | building | 2,311 | 7.0% | 0.07 | 6 | \$20,330 | 82% | 0.0 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Warehouse | Cooling Central | New | building | 2,311 | 7.0% | 0.07 | 6 | \$20,330 | 82% | 0.0 |
| FE-Met Ed | Adding window shade film | No shade film | Warehouse | Cooling Central | Existing | building | 2,311 | 1.3% | 0.4 | 10 | \$28 | 13% | 9.8 |
| FE-Met Ed | Adding window shade film | No shade film | Warehouse | Cooling Central | New | building | 2,311 | 1.3% | 0.4 | 10 | \$28 | 13% | 9.8 |
| FE-Met Ed | Adding window shade screen | No shade screen | Warehouse | Cooling Central | Existing | building | 2,311 | 1.1% | 0.01 | 10 | \$11 | 13% | 1.5 |
| FE-Met Ed | Adding window shade screen | No shade screen | Warehouse | Cooling Central | New | building | 2,311 | 1.0% | 0.01 | 10 | \$11 | 13% | 1.5 |
| FE-Met Ed | Automated control system | Manual Controls | Warehouse | Cooling Central | Existing | building | 2,311 | 17% | 0.2 | 15 | \$2,530 | 51% | 0.2 |
| FE-Met Ed | Automated control system | Manual Controls | Warehouse | Cooling Central | New | building | 2,311 | 17% | 0.2 | 15 | \$2,530 | 94% | 0.2 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Warehouse | Cooling Central | Existing | building | 2,311 | 5.9% | 0.06 | 15 | \$27,901 | 71% | 0.0 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Warehouse | Cooling Central | New | building | 2,311 | 3.7% | 0.04 | 15 | \$26,520 | 94% | 0.0 |
| FE-Met Ed | Chiller Tuneup/Diagnostics | No tuneup | Warehouse | Cooling Central | Existing | building | 2,311 | 8.0% | 0.08 | 10 | \$5,901 | 59% | 0.0 |
| FE-Met Ed | Chiller Tuneup/Diagnostics | No tuneup | Warehouse | Cooling Central | New | building | 2,311 | 8.0% | 0.08 | 10 | \$5,901 | 59% | 0.0 |
| FE-Met Ed | Cooling Tower Optimization | No Cooling Tower Optimization | Warehouse | Cooling Central | Existing | building | 2,311 | 20% | 0.2 | 10 | \$14 | 69% | 22.5 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Warehouse | Cooling Central | Existing | building | 2,311 | 1.4% | 0.04 | 15 | \$18 | 20% | 3.1 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Warehouse | Cooling Central | New | building | 2,311 | 1.4% | 0.04 | 15 | \$18 | 10% | 3.1 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Warehouse | Cooling Central | Existing | building | 2,311 | 7.0% | 0.07 | 15 | \$10,251 | 25% | 0.0 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Warehouse | Cooling Central | New | building | 2,311 | 7.0% | 0.07 | 15 | \$10,251 | 35% | 0.0 |
| FE-Met Ed | Hi Eff HVAC System Design | No HVAC Design | Warehouse | Cooling Central | New | building | 2,311 | 12% | 0.1 | 10 | \$127,404 | 51% | 0.0 |
| FE-Met Ed | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | Early | ton | 5,094 | 24% | 0.4 | 15 | \$108,550 | 89% | 0.0 |
| FE-Met Ed | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | New | ton | 4,164 | 6.7% | 0.10 | 15 | \$12,927 | 89% | 0.0 |
| FE-Met Ed | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | ROB | ton | 4,164 | 6.7% | 0.10 | 15 | \$12,927 | 89% | 0.0 |
| FE-Met Ed | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | Early | ton | 7,611 | 23% | 0.6 | 15 | \$140,105 | 89% | 0.0 |
| FE-Met Ed | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | New | ton | 6,124 | 4.9% | 0.1 | 15 | \$9,336 | 89% | 0.0 |
| FE-Met Ed | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | ROB | ton | 6,124 | 4.9% | 0.1 | 15 | \$9,336 | 89% | 0.0 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | Early | ton | 62,308 | 26% | 5.6 | 15 | \$105,354 | 89% | 0.1 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | New | ton | 54,288 | 15% | 2.8 | 15 | \$30,530 | 89% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | ROB | ton | 54,288 | 15% | 2.8 | 15 | \$30,530 | 89% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | Early | ton | 93,320 | 23% | 7.4 | 15 | \$154,107 | 89% | 0.1 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | New | ton | 85,726 | 16% | 4.8 | 15 | \$27,646 | 89% | 0.4 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | ROB | ton | 93,320 | 23% | 7.4 | 15 | \$27,646 | 89% | 0.7 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | Early | ton | 154,988 | 23% | 12.2 | 15 | \$302,924 | 89% | 0.1 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | New | ton | 140,275 | 14% | 7.0 | 15 | \$115,432 | 89% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | ROB | ton | 154,988 | 23% | 12.2 | 15 | \$115,432 | 89% | 0.3 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | Early | ton | 185,985 | 23% | 14.6 | 15 | \$350,154 | 89% | 0.1 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | New | ton | 168,330 | 14% | 8.5 | 15 | \$120,406 | 89% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | ROB | ton | 185,985 | 23% | 14.6 | 15 | \$120,406 | 89% | 0.3 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | Early | ton | 41,225 | 29% | 4.2 | 15 | \$83,632 | 89% | 0.1 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | New | ton | 32,011 | 8.9% | 1.0 | 15 | \$40,211 | 89% | 0.1 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | ROB | ton | 41,225 | 29% | 4.2 | 15 | \$40,211 | 89% | 0.3 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | Early | ton | 70,835 | 35% | 8.6 | 15 | \$132,173 | 89% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | New | ton | 52,831 | 13% | 2.3 | 15 | \$39,556 | 89% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | ROB | ton | 52,831 | 13% | 2.3 | 15 | \$39,556 | 89% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | Early | ton | 118,265 | 39% | 16.1 | 15 | \$187,029 | 89% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | New | ton | 84,321 | 15% | 4.3 | 15 | \$33,554 | 89% | 0.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|--|---|-----------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | ROB | ton | 118,265 | 39% | 16.1 | 15 | \$33,554 | 89% | 1.2 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | Early | ton | 20,695 | 30% | 2.1 | 15 | \$32,398 | 89% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | New | ton | 16,396 | 11% | 0.6 | 15 | \$7,188 | 89% | 0.2 |
| FE-Met Ed | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | ROB | ton | 20,695 | 30% | 2.1 | 15 | \$7,188 | 89% | 0.8 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Warehouse | Cooling Central | Existing | building | 2,311 | 1.1% | 0.01 | 10 | \$42,091 | 81% | 0.0 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Warehouse | Cooling Central | New | building | 2,311 | 1.1% | 0.01 | 10 | \$42,091 | 81% | 0.0 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Warehouse | Cooling Central | Existing | building | 2,311 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.1 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Warehouse | Cooling Central | New | building | 2,311 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.2 |
| FE-Met Ed | Re-Commissioning (Existing Construction) | No Re-Commissioning | Warehouse | Cooling Central | Existing | building | 2,311 | 16% | 0.2 | 5 | \$8,619 | 86% | 0.0 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Warehouse | Cooling Central | Existing | building | 2,311 | 19% | 0.2 | 15 | \$6,551 | 26% | 0.1 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Warehouse | Cooling Central | New | building | 2,311 | 0.6% | 0.01 | 15 | \$5,025 | 94% | 0.0 |
| FE-Met Ed | <65k BTU/hr 14 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Warehouse | Cooling Unitary | Early | ton | 5,195 | 16% | 0.2 | 15 | \$1,545 | 28% | 0.4 |
| FE-Met Ed | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Warehouse | Cooling Unitary | New | ton | 4,705 | 7.1% | 0.08 | 15 | \$339 | 28% | 0.8 |
| FE-Met Ed | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Warehouse | Cooling Unitary | ROB | ton | 4,705 | 7.1% | 0.08 | 15 | \$339 | 28% | 0.8 |
| FE-Met Ed | <65k BTU/hr 15 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Warehouse | Cooling Unitary | Early | ton | 5,195 | 22% | 0.2 | 15 | \$1,821 | 28% | 0.5 |
| FE-Met Ed | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Warehouse | Cooling Unitary | New | ton | 4,705 | 13% | 0.1 | 15 | \$714 | 28% | 0.7 |
| FE-Met Ed | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Warehouse | Cooling Unitary | ROB | ton | 4,705 | 13% | 0.1 | 15 | \$714 | 28% | 0.7 |
| FE-Met Ed | <65k BTU/hr 16 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Warehouse | Cooling Unitary | Early | ton | 5,195 | 26% | 0.3 | 15 | \$2,098 | 29% | 0.5 |
| FE-Met Ed | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Warehouse | Cooling Unitary | New | ton | 4,705 | 19% | 0.2 | 15 | \$1,089 | 29% | 0.6 |
| FE-Met Ed | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Warehouse | Cooling Unitary | ROB | ton | 4,705 | 19% | 0.2 | 15 | \$1,089 | 29% | 0.6 |
| FE-Met Ed | >760k min 10.2 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Warehouse | Cooling Unitary | Early | ton | 131,432 | 3.7% | 1.1 | 15 | \$68,066 | 35% | 0.1 |
| FE-Met Ed | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Warehouse | Cooling Unitary | New | ton | 133,118 | 4.9% | 1.5 | 15 | \$6,231 | 35% | 0.8 |
| FE-Met Ed | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Warehouse | Cooling Unitary | ROB | ton | 133,118 | 4.9% | 1.5 | 15 | \$6,231 | 35% | 0.8 |
| FE-Met Ed | 135-240k min 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Warehouse | Cooling Unitary | Early | ton | 32,339 | 18% | 1.3 | 15 | \$18,135 | 35% | 0.3 |
| FE-Met Ed | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Warehouse | Cooling Unitary | New | ton | 29,418 | 10.0% | 0.7 | 15 | \$1,948 | 35% | 1.2 |
| FE-Met Ed | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Warehouse | Cooling Unitary | ROB | ton | 29,418 | 10.0% | 0.7 | 15 | \$1,948 | 35% | 1.2 |
| FE-Met Ed | 240k-760k min 11 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Warehouse | Cooling Unitary | Early | ton | 86,468 | 9.0% | 1.7 | 15 | \$44,809 | 35% | 0.1 |
| FE-Met Ed | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Warehouse | Cooling Unitary | New | ton | 86,684 | 9.3% | 1.8 | 15 | \$4,796 | 35% | 1.3 |
| FE-Met Ed | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Warehouse | Cooling Unitary | ROB | ton | 86,684 | 9.3% | 1.8 | 15 | \$4,796 | 35% | 1.3 |
| FE-Met Ed | 65k-135k BTU/hr 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Warehouse | Cooling Unitary | Early | ton | 19,063 | 17% | 0.7 | 15 | \$10,946 | 35% | 0.2 |
| FE-Met Ed | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Warehouse | Cooling Unitary | New | ton | 16,990 | 6.7% | 0.3 | 15 | \$1,392 | 35% | 0.6 |
| FE-Met Ed | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Warehouse | Cooling Unitary | ROB | ton | 16,990 | 6.7% | 0.3 | 15 | \$1,392 | 35% | 0.6 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Warehouse | Cooling Unitary | Existing | building | 21,440 | 7.0% | 0.07 | 6 | \$20,330 | 82% | 0.0 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Warehouse | Cooling Unitary | New | building | 21,440 | 7.0% | 0.07 | 6 | \$20,330 | 82% | 0.0 |
| FE-Met Ed | Adding window shade film | No shade film | Warehouse | Cooling Unitary | Existing | building | 21,440 | 1.3% | 0.4 | 10 | \$261 | 12% | 1.4 |
| FE-Met Ed | Adding window shade film | No shade film | Warehouse | Cooling Unitary | New | building | 21,440 | 1.3% | 0.4 | 10 | \$261 | 13% | 1.4 |
| FE-Met Ed | Adding window shade screen | No shade screen | Warehouse | Cooling Unitary | Existing | building | 21,440 | 1.1% | 0.01 | 10 | \$101 | 12% | 1.0 |
| FE-Met Ed | Adding window shade screen | No shade screen | Warehouse | Cooling Unitary | New | building | 21,440 | 1.1% | 0.01 | 10 | \$101 | 13% | 1.0 |
| FE-Met Ed | Automated control system | Manual Controls | Warehouse | Cooling Unitary | Existing | building | 21,440 | 17% | 0.2 | 15 | \$23,472 | 51% | 0.1 |
| FE-Met Ed | Automated control system | Manual Controls | Warehouse | Cooling Unitary | New | building | 21,440 | 17% | 0.2 | 15 | \$23,472 | 94% | 0.1 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Warehouse | Cooling Unitary | Existing | building | 21,440 | 5.9% | 0.06 | 15 | \$27,901 | 71% | 0.0 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Warehouse | Cooling Unitary | New | building | 21,440 | 3.7% | 0.04 | 15 | \$26,520 | 94% | 0.0 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Warehouse | Cooling Unitary | Existing | building | 21,440 | 1.4% | 0.04 | 15 | \$170 | 20% | 1.2 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Warehouse | Cooling Unitary | New | building | 21,440 | 1.4% | 0.04 | 15 | \$170 | 10% | 1.2 |
| FE-Met Ed | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Warehouse | Cooling Unitary | Existing | building | 11,792 | 13% | 0.1 | 1 | \$113 | 73% | 0.8 |
| FE-Met Ed | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Warehouse | Cooling Unitary | New | building | 11,792 | 13% | 0.1 | 1 | \$113 | 73% | 0.8 |
| FE-Met Ed | ECM Motors for split systems | Std Shaded Pole Motor | Warehouse | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 35% | 3.0 |
| FE-Met Ed | ECM Motors for split systems | Std Shaded Pole Motor | Warehouse | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 35% | 3.0 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Warehouse | Cooling Unitary | Existing | building | 21,440 | 7.1% | 0.07 | 15 | \$95,104 | 25% | 0.0 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Warehouse | Cooling Unitary | New | building | 21,440 | 7.1% | 0.07 | 15 | \$95,104 | 35% | 0.0 |
| FE-Met Ed | Hi Eff HVAC System Design | No HVAC Design | Warehouse | Cooling Unitary | New | building | 21,440 | 12% | 0.1 | 10 | \$10,288 | 51% | 0.1 |
| FE-Met Ed | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Warehouse | Cooling Unitary | Existing | building | 21,440 | 5.0% | 0.05 | 5 | \$225 | 59% | 1.1 |
| FE-Met Ed | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Warehouse | Cooling Unitary | Existing | building | 21,440 | 0.7% | 0.05 | 5 | \$225 | 51% | 0.2 |
| FE-Met Ed | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Warehouse | Cooling Unitary | New | building | 21,440 | 0.6% | 0.05 | 5 | \$135 | 51% | 0.4 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Warehouse | Cooling Unitary | Existing | building | 21,440 | 1.1% | 0.01 | 10 | \$45,236 | 86% | 0.0 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Warehouse | Cooling Unitary | New | building | 21,440 | 1.1% | 0.01 | 10 | \$45,236 | 86% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|--|--|-----------|-----------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) | Warehouse | Cooling Unitary | Existing | building | 21,440 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.7 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Warehouse | Cooling Unitary | New | building | 21,440 | 1.7% | 0.02 | 11 | \$146 | 49% | 1.2 |
| FE-Met Ed | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Warehouse | Cooling Unitary | Early | unit | 180 | 19% | 0.08 | 15 | \$849 | 80% | 0.1 |
| FE-Met Ed | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Warehouse | Cooling Unitary | New | unit | 182 | 20% | 0.08 | 15 | \$356 | 80% | 0.3 |
| FE-Met Ed | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Warehouse | Cooling Unitary | ROB | unit | 182 | 20% | 0.08 | 15 | \$356 | 80% | 0.3 |
| FE-Met Ed | Re-Commissioning (Existing Construction) | No Re-Commissioning | Warehouse | Cooling Unitary | Existing | building | 21,440 | 16% | 0.2 | 5 | \$8,619 | 86% | 0.1 |
| FE-Met Ed | Room AC (w/ louvered sides) | Existing efficiency Room AC in Pennsylvania (2000 Federal Standards) | Warehouse | Cooling Unitary | Early | ton | 2,384 | 13% | 0.1 | 9 | \$348 | 78% | 0.5 |
| FE-Met Ed | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Warehouse | Cooling Unitary | New | ton | 2,161 | 4.5% | 0.03 | 9 | \$17 | 78% | 3.3 |
| FE-Met Ed | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Warehouse | Cooling Unitary | ROB | ton | 2,161 | 4.5% | 0.03 | 9 | \$17 | 78% | 3.3 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Warehouse | Cooling Unitary | Existing | building | 21,440 | 19% | 0.2 | 15 | \$6,551 | 26% | 0.4 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Warehouse | Cooling Unitary | New | building | 21,440 | 0.6% | 0.01 | 15 | \$5,025 | 94% | 0.0 |
| FE-Met Ed | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Warehouse | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 1.2 |
| FE-Met Ed | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Warehouse | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.6 |
| FE-Met Ed | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Warehouse | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.6 |
| FE-Met Ed | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Warehouse | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 0% | 0.2 |
| FE-Met Ed | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Warehouse | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-Met Ed | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Warehouse | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-Met Ed | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Warehouse | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 48% | 0.3 |
| FE-Met Ed | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Warehouse | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 48% | 0.2 |
| FE-Met Ed | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Warehouse | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 48% | 2.9 |
| FE-Met Ed | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Warehouse | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 48% | 2.2 |
| FE-Met Ed | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Warehouse | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 48% | 2.9 |
| FE-Met Ed | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Warehouse | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 48% | 2.2 |
| FE-Met Ed | Photocell Controls (Outdoor) | Lighting w/ No Controls | Warehouse | Ext. Lighting | Existing | building | 145 | 28% | 0.3 | 8 | \$3,718 | 88% | 0.0 |
| FE-Met Ed | Photocell Controls (Outdoor) | Lighting w/ No Controls | Warehouse | Ext. Lighting | New | building | 145 | 28% | 0.3 | 8 | \$3,718 | 0% | 0.0 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Warehouse | Heat Pump | Existing | building | 2,188 | 6.9% | 0.07 | 6 | \$20,330 | 82% | 0.0 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Warehouse | Heat Pump | New | building | 2,188 | 6.9% | 0.07 | 6 | \$20,330 | 82% | 0.0 |
| FE-Met Ed | Adding window shade film | No shade film | Warehouse | Heat Pump | Existing | building | 2,188 | 3.9% | 0.4 | 10 | \$27 | 12% | 11.1 |
| FE-Met Ed | Adding window shade film | No shade film | Warehouse | Heat Pump | New | building | 2,188 | 3.9% | 0.4 | 10 | \$27 | 12% | 11.1 |
| FE-Met Ed | Adding window shade screen | No shade screen | Warehouse | Heat Pump | Existing | building | 2,188 | 0.3% | 0.01 | 10 | \$3.4 | 12% | 2.9 |
| FE-Met Ed | Adding window shade screen | No shade screen | Warehouse | Heat Pump | New | building | 2,188 | 0.3% | 0.01 | 10 | \$3.4 | 12% | 2.9 |
| FE-Met Ed | Automated control system | Manual Controls | Warehouse | Heat Pump | Existing | building | 2,188 | 17% | 0.2 | 15 | \$2,395 | 51% | 0.2 |
| FE-Met Ed | Automated control system | Manual Controls | Warehouse | Heat Pump | New | building | 2,188 | 17% | 0.2 | 15 | \$2,395 | 94% | 0.2 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Warehouse | Heat Pump | Existing | building | 2,188 | 5.9% | 0.06 | 15 | \$27,901 | 71% | 0.0 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Warehouse | Heat Pump | New | building | 2,188 | 3.7% | 0.04 | 15 | \$26,520 | 94% | 0.0 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Warehouse | Heat Pump | Existing | building | 2,188 | 4.0% | 0.04 | 15 | \$17 | 12% | 4.9 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Warehouse | Heat Pump | New | building | 2,188 | 4.0% | 0.04 | 15 | \$17 | 6% | 4.9 |
| FE-Met Ed | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Warehouse | Heat Pump | Early | heat pump | 2,875 | 14% | 0.03 | 15 | \$4,070 | 83% | 0.1 |
| FE-Met Ed | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Warehouse | Heat Pump | New | heat pump | 2,672 | 7.5% | 0.02 | 15 | \$1,097 | 83% | 0.1 |
| FE-Met Ed | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Warehouse | Heat Pump | ROB | heat pump | 2,672 | 7.5% | 0.02 | 15 | \$1,097 | 83% | 0.1 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Warehouse | Heat Pump | Existing | building | 2,188 | 7.0% | 0.07 | 15 | \$9,704 | 25% | 0.0 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Warehouse | Heat Pump | New | building | 2,188 | 7.0% | 0.07 | 15 | \$9,704 | 35% | 0.0 |
| FE-Met Ed | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Warehouse | Heat Pump | Early | heat pump | 30,914 | 22% | 0.6 | 15 | \$91,117 | 19% | 0.0 |
| FE-Met Ed | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Warehouse | Heat Pump | New | heat pump | 29,192 | 17% | 0.4 | 15 | \$33,927 | 19% | 0.1 |
| FE-Met Ed | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Warehouse | Heat Pump | ROB | heat pump | 29,192 | 17% | 0.4 | 15 | \$33,927 | 19% | 0.1 |
| FE-Met Ed | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Warehouse | Heat Pump | Early | heat pump | 30,914 | 22% | 0.6 | 15 | \$58,356 | 19% | 0.1 |
| FE-Met Ed | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Warehouse | Heat Pump | New | heat pump | 29,192 | 17% | 0.4 | 15 | \$1,167 | 19% | 2.6 |
| FE-Met Ed | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Warehouse | Heat Pump | ROB | heat pump | 29,192 | 17% | 0.4 | 15 | \$1,167 | 19% | 2.6 |
| FE-Met Ed | Hi Eff HVAC System Design | No HVAC Design | Warehouse | Heat Pump | New | building | 2,188 | 12% | 0.1 | 10 | \$127,404 | 51% | 0.0 |
| FE-Met Ed | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Warehouse | Heat Pump | Early | heat pump | 7,668 | 19% | 0.1 | 12 | \$4,298 | 81% | 0.2 |
| FE-Met Ed | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Warehouse | Heat Pump | New | heat pump | 7,126 | 13% | 0.08 | 12 | \$852 | 81% | 0.5 |
| FE-Met Ed | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Warehouse | Heat Pump | ROB | heat pump | 7,126 | 13% | 0.08 | 12 | \$852 | 81% | 0.5 |
| FE-Met Ed | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Warehouse | Heat Pump | Existing | building | 2,188 | 5.0% | 0.01 | 5 | \$90 | 51% | 0.3 |
| FE-Met Ed | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Warehouse | Heat Pump | New | building | 2,188 | 5.0% | 0.01 | 5 | \$90 | 51% | 0.3 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Warehouse | Heat Pump | Existing | building | 2,188 | 1.1% | 0.01 | 10 | \$40,275 | 81% | 0.0 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Warehouse | Heat Pump | New | building | 2,188 | 1.1% | 0.01 | 10 | \$40,275 | 81% | 0.0 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Warehouse | Heat Pump | Existing | building | 2,188 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.1 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Warehouse | Heat Pump | New | building | 2,188 | 2.1% | 0.02 | 11 | \$146 | 49% | 0.2 |
| FE-Met Ed | Re-Commissioning (Existing Construction) | No Re-Commissioning | Warehouse | Heat Pump | Existing | building | 2,188 | 16% | 0.2 | 5 | \$8,619 | 86% | 0.0 |
| FE-Met Ed | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Warehouse | Heat Pump | New | measure | 290,645 | 2.0% | 0.7 | 13 | \$36,589 | 43% | 0.1 |
| FE-Met Ed | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Warehouse | Heat Pump | ROB | measure | 290,645 | 2.0% | 0.7 | 13 | \$36,589 | 43% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|--|-----------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Warehouse | Heat Pump | Existing | building | 2,188 | 19% | 0.2 | 15 | \$6,551 | 26% | 0.1 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Warehouse | Heat Pump | New | building | 2,188 | 0.6% | 0.01 | 15 | \$5,025 | 94% | 0.0 |
| FE-Met Ed | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Warehouse | Heat Pump | Early | heat pump | 11,656 | 27% | 0.3 | 15 | \$35,347 | 28% | 0.1 |
| FE-Met Ed | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Warehouse | Heat Pump | New | heat pump | 10,677 | 20% | 0.2 | 15 | \$15,739 | 28% | 0.1 |
| FE-Met Ed | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Warehouse | Heat Pump | ROB | heat pump | 10,677 | 20% | 0.2 | 15 | \$15,739 | 28% | 0.1 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | Early | Fixture | 536 | 9.6% | 0.01 | 13 | \$850 | 39% | 0.0 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Warehouse | High Bay Lighting | Early | Fixture | 535 | 9.5% | 0.01 | 13 | \$850 | 28% | 0.0 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Warehouse | High Bay Lighting | Early | Fixture | 827 | 41% | 0.08 | 13 | \$850 | 36% | 0.3 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | New | Fixture | 407 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Warehouse | High Bay Lighting | New | Fixture | 379 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Warehouse | High Bay Lighting | New | Fixture | 628 | 41% | 0.06 | 13 | \$397 | 36% | 0.4 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 536 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 499 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-Met Ed | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 827 | 41% | 0.08 | 13 | \$397 | 36% | 0.6 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | Early | Fixture | 1,040 | 19% | 0.05 | 13 | \$851 | 38% | 0.2 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Warehouse | High Bay Lighting | Early | Fixture | 1,053 | 20% | 0.05 | 13 | \$851 | 38% | 0.2 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | Early | Fixture | 3,064 | 73% | 0.5 | 13 | \$851 | 38% | 1.8 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | New | Fixture | 791 | 19% | 0.03 | 13 | \$372 | 38% | 0.3 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | New | Fixture | 2,329 | 73% | 0.4 | 13 | \$383 | 38% | 3.0 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 1,040 | 19% | 0.05 | 13 | \$372 | 38% | 0.4 |
| FE-Met Ed | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 3,064 | 73% | 0.5 | 13 | \$383 | 38% | 4.0 |
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | Early | Fixture | 1,040 | 25% | 0.06 | 13 | \$554 | 29% | 0.3 |
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Warehouse | High Bay Lighting | Early | Fixture | 1,021 | 23% | 0.05 | 13 | \$554 | 28% | 0.3 |
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | Early | Fixture | 3,064 | 74% | 0.5 | 13 | \$554 | 36% | 2.8 |
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | New | Fixture | 791 | 25% | 0.04 | 13 | \$75 | 29% | 1.8 |
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | New | Fixture | 2,329 | 74% | 0.4 | 13 | \$86 | 36% | 13.9 |
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 1,040 | 25% | 0.06 | 13 | \$75 | 29% | 2.4 |
| FE-Met Ed | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 3,064 | 74% | 0.5 | 13 | \$86 | 36% | 18.2 |
| FE-Met Ed | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Warehouse | High Bay Lighting | Early | Fixture | 271 | 0.2% | 0.00 | 13 | \$835 | 38% | 0.0 |
| FE-Met Ed | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Warehouse | High Bay Lighting | Early | Fixture | 584 | 54% | 0.07 | 13 | \$835 | 38% | 0.3 |
| FE-Met Ed | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Warehouse | High Bay Lighting | New | Fixture | 444 | 54% | 0.05 | 13 | \$382 | 38% | 0.4 |
| FE-Met Ed | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 584 | 54% | 0.07 | 13 | \$382 | 38% | 0.6 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | Early | Fixture | 1,325 | 18% | 0.05 | 13 | \$487 | 25% | 0.3 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Warehouse | High Bay Lighting | Early | Fixture | 1,386 | 22% | 0.07 | 13 | \$487 | 28% | 0.4 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | Early | Fixture | 3,064 | 65% | 0.4 | 13 | \$487 | 36% | 2.8 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | New | Fixture | 1,007 | 18% | 0.04 | 13 | \$16 | 25% | 7.7 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | New | Fixture | 2,329 | 65% | 0.3 | 13 | \$18 | 36% | 56.1 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 1,325 | 18% | 0.05 | 13 | \$16 | 25% | 10.2 |
| FE-Met Ed | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 3,064 | 65% | 0.4 | 13 | \$18 | 36% | 73.8 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | Early | Fixture | 1,325 | 1.5% | 0.00 | 13 | \$557 | 19% | 0.0 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Warehouse | High Bay Lighting | Early | Fixture | 1,364 | 4.3% | 0.01 | 13 | \$557 | 19% | 0.1 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | Early | Fixture | 3,064 | 57% | 0.4 | 13 | \$557 | 19% | 2.2 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | New | Fixture | 1,007 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | New | Fixture | 2,329 | 57% | 0.3 | 13 | \$88 | 19% | 10.4 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 1,325 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.2 |
| FE-Met Ed | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 3,064 | 57% | 0.4 | 13 | \$88 | 19% | 13.7 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Warehouse | High Bay Lighting | Early | Fixture | 563 | 29% | 0.03 | 13 | \$492 | 71% | 0.2 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | Early | Fixture | 471 | 15% | 0.01 | 13 | \$492 | 95% | 0.1 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Warehouse | High Bay Lighting | Early | Fixture | 699 | 43% | 0.05 | 13 | \$492 | 95% | 0.4 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Warehouse | High Bay Lighting | Early | Fixture | 648 | 38% | 0.04 | 13 | \$492 | 95% | 0.3 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | New | Fixture | 358 | 15% | 0.01 | 13 | \$25 | 95% | 1.4 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Warehouse | High Bay Lighting | New | Fixture | 531 | 43% | 0.04 | 13 | \$51 | 95% | 2.8 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 471 | 15% | 0.01 | 13 | \$25 | 95% | 1.8 |
| FE-Met Ed | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 699 | 43% | 0.05 | 13 | \$51 | 95% | 3.7 |
| FE-Met Ed | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Warehouse | High Bay Lighting | Early | lamp | 77 | 16% | 0.00 | 14 | \$7.7 | 99% | 1.2 |
| FE-Met Ed | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Warehouse | High Bay Lighting | New | lamp | 46 | 13% | 0.00 | 14 | \$1.6 | 91% | 2.6 |
| FE-Met Ed | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Warehouse | High Bay Lighting | ROB | lamp | 74 | 13% | 0.00 | 14 | \$1.6 | 91% | 4.2 |
| FE-Met Ed | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | Early | Fixture | 3,135 | 23% | 0.2 | 13 | \$613 | 5% | 0.8 |
| FE-Met Ed | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Warehouse | High Bay Lighting | Early | Fixture | 2,463 | 1.6% | 0.01 | 13 | \$613 | 28% | 0.0 |
| FE-Met Ed | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | Early | Fixture | 6,128 | 60% | 0.8 | 13 | \$613 | 18% | 4.1 |
| FE-Met Ed | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | New | Fixture | 2,383 | 23% | 0.1 | 13 | \$96 | 5% | 3.9 |
| FE-Met Ed | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 3,135 | 23% | 0.2 | 13 | \$96 | 5% | 5.1 |
| FE-Met Ed | Auto Off Time Switch | Lighting w/ No Controls | Warehouse | High Bay Lighting | Existing | building | 12,416 | 24% | 0.2 | 8 | \$755 | 13% | 1.5 |
| FE-Met Ed | Auto Off Time Switch | Lighting w/ No Controls | Warehouse | High Bay Lighting | New | building | 12,416 | 6.9% | 0.07 | 8 | \$755 | 0% | 0.4 |
| FE-Met Ed | Central Lighting Control System | Lighting w/ No Controls | Warehouse | High Bay Lighting | Existing | building | 12,416 | 38% | 0.4 | 8 | \$755 | 13% | 2.4 |
| FE-Met Ed | Central Lighting Control System | Lighting w/ No Controls | Warehouse | High Bay Lighting | New | building | 12,416 | 14% | 0.1 | 8 | \$755 | 13% | 0.9 |
| FE-Met Ed | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Warehouse | High Bay Lighting | New | building | 12,416 | 10% | 0.1 | 15 | \$31,316 | 32% | 0.0 |
| FE-Met Ed | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Warehouse | High Bay Lighting | New | building | 12,416 | 15% | 0.2 | 15 | \$78,291 | 32% | 0.0 |
| FE-Met Ed | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Warehouse | High Bay Lighting | New | building | 12,416 | 30% | 0.3 | 15 | \$112,217 | 32% | 0.0 |
| FE-Met Ed | Indoor Daylight Sensors | Lighting w/ No Controls | Warehouse | High Bay Lighting | Existing | building | 12,416 | 28% | 0.3 | 8 | \$3,718 | 13% | 0.4 |
| FE-Met Ed | Indoor Daylight Sensors | Lighting w/ No Controls | Warehouse | High Bay Lighting | New | building | 12,416 | 4.1% | 0.04 | 8 | \$3,718 | 0% | 0.1 |
| FE-Met Ed | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | Early | Fixture | 3,135 | 92% | 0.7 | 13 | \$1,916 | 95% | 1.0 |
| FE-Met Ed | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | Early | Fixture | 6,128 | 96% | 1.3 | 13 | \$1,916 | 95% | 2.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|--|-----------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | New | Fixture | 2,383 | 92% | 0.5 | 13 | \$1,468 | 95% | 1.0 |
| FE-Met Ed | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | New | Fixture | 4,658 | 96% | 1.0 | 13 | \$1,149 | 95% | 2.7 |
| FE-Met Ed | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 3,135 | 92% | 0.7 | 13 | \$1,468 | 95% | 1.4 |
| FE-Met Ed | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 6,128 | 96% | 1.3 | 13 | \$1,149 | 95% | 3.5 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | Early | Fixture | 1,040 | 67% | 0.2 | 13 | \$960 | 95% | 0.5 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Warehouse | High Bay Lighting | Early | Fixture | 3,064 | 89% | 0.6 | 13 | \$960 | 95% | 1.9 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Warehouse | High Bay Lighting | Early | Fixture | 841 | 59% | 0.1 | 13 | \$960 | 95% | 0.4 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | New | Fixture | 791 | 67% | 0.1 | 13 | \$480 | 95% | 0.8 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Warehouse | High Bay Lighting | New | Fixture | 2,329 | 89% | 0.5 | 13 | \$491 | 95% | 2.9 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Warehouse | High Bay Lighting | New | Fixture | 639 | 59% | 0.08 | 13 | \$406 | 95% | 0.6 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 1,040 | 67% | 0.2 | 13 | \$480 | 95% | 1.0 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 3,064 | 89% | 0.6 | 13 | \$491 | 95% | 3.8 |
| FE-Met Ed | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 841 | 59% | 0.1 | 13 | \$406 | 95% | 0.8 |
| FE-Met Ed | Occupancy Sensor | Lighting w/ No Controls | Warehouse | High Bay Lighting | Existing | building | 12,416 | 24% | 0.2 | 8 | \$1,138 | 12% | 1.0 |
| FE-Met Ed | Occupancy Sensor | Lighting w/ No Controls | Warehouse | High Bay Lighting | New | building | 12,416 | 6.9% | 0.07 | 8 | \$1,138 | 0% | 0.3 |
| FE-Met Ed | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Warehouse | High Bay Lighting | Existing | building | 12,416 | 28% | 0.3 | 8 | \$3,718 | 12% | 0.4 |
| FE-Met Ed | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Warehouse | High Bay Lighting | New | building | 12,416 | 4.0% | 0.04 | 8 | \$3,718 | 0% | 0.1 |
| FE-Met Ed | Time Clock Control | Lighting w/ No Controls | Warehouse | High Bay Lighting | Existing | building | 12,416 | 28% | 0.3 | 8 | \$755 | 13% | 1.7 |
| FE-Met Ed | Time Clock Control | Lighting w/ No Controls | Warehouse | High Bay Lighting | New | building | 12,416 | 4.0% | 0.04 | 8 | \$755 | 0% | 0.3 |
| FE-Met Ed | Auto Off Time Switch | Lighting w/ No Controls | Warehouse | Lin. Fluor. Lighting | Existing | building | 6,608 | 24% | 0.2 | 8 | \$755 | 13% | 0.9 |
| FE-Met Ed | Auto Off Time Switch | Lighting w/ No Controls | Warehouse | Lin. Fluor. Lighting | New | building | 6,608 | 6.9% | 0.07 | 8 | \$755 | 0% | 0.3 |
| FE-Met Ed | Central Lighting Control System | Lighting w/ No Controls | Warehouse | Lin. Fluor. Lighting | Existing | building | 6,608 | 38% | 0.4 | 8 | \$755 | 12% | 1.4 |
| FE-Met Ed | Central Lighting Control System | Lighting w/ No Controls | Warehouse | Lin. Fluor. Lighting | New | building | 6,608 | 14% | 0.1 | 8 | \$755 | 12% | 0.5 |
| FE-Met Ed | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Warehouse | Lin. Fluor. Lighting | New | building | 6,608 | 10% | 0.1 | 15 | \$31,316 | 32% | 0.0 |
| FE-Met Ed | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Warehouse | Lin. Fluor. Lighting | New | building | 6,608 | 15% | 0.2 | 15 | \$78,291 | 32% | 0.0 |
| FE-Met Ed | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Warehouse | Lin. Fluor. Lighting | New | building | 6,608 | 30% | 0.3 | 15 | \$112,217 | 32% | 0.0 |
| FE-Met Ed | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Warehouse | Lin. Fluor. Lighting | Early | Lamp | 155 | 38% | 0.01 | 14 | \$7.3 | 94% | 5.7 |
| FE-Met Ed | Indoor Daylight Sensors | Lighting w/ No Controls | Warehouse | Lin. Fluor. Lighting | Existing | building | 6,608 | 28% | 0.3 | 8 | \$3,718 | 13% | 0.2 |
| FE-Met Ed | Indoor Daylight Sensors | Lighting w/ No Controls | Warehouse | Lin. Fluor. Lighting | New | building | 6,608 | 4.1% | 0.04 | 8 | \$3,718 | 0% | 0.0 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | Early | Lamp | 68 | 19% | 0.00 | 15 | \$35 | 94% | 0.3 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 40W T12 Lamp, Magnetic Ballast | Warehouse | Lin. Fluor. Lighting | Early | Lamp | 149 | 63% | 0.02 | 15 | \$35 | 94% | 2.1 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | Early | Lamp | 84 | 34% | 0.01 | 15 | \$35 | 94% | 0.6 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | Early | Lamp | 81 | 32% | 0.01 | 15 | \$35 | 94% | 0.6 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | New | Lamp | 52 | 19% | 0.00 | 15 | \$28 | 94% | 0.3 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | New | Lamp | 62 | 32% | 0.00 | 15 | \$29 | 94% | 0.5 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | New | Lamp | 64 | 34% | 0.00 | 15 | \$22 | 94% | 0.8 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | New | Lamp | 62 | 32% | 0.00 | 15 | \$29 | 94% | 0.5 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | ROB | Lamp | 68 | 19% | 0.00 | 15 | \$28 | 94% | 0.4 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | ROB | Lamp | 81 | 32% | 0.01 | 15 | \$29 | 94% | 0.7 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | ROB | Lamp | 84 | 34% | 0.01 | 15 | \$22 | 94% | 1.0 |
| FE-Met Ed | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | ROB | Lamp | 81 | 32% | 0.01 | 15 | \$29 | 94% | 0.7 |
| FE-Met Ed | Occupancy Sensor | Lighting w/ No Controls | Warehouse | Lin. Fluor. Lighting | Existing | building | 6,608 | 24% | 0.2 | 8 | \$1,138 | 13% | 0.6 |
| FE-Met Ed | Occupancy Sensor | Lighting w/ No Controls | Warehouse | Lin. Fluor. Lighting | New | building | 6,608 | 7.0% | 0.07 | 8 | \$1,138 | 0% | 0.2 |
| FE-Met Ed | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Warehouse | Lin. Fluor. Lighting | Existing | building | 6,608 | 28% | 0.3 | 8 | \$3,718 | 12% | 0.2 |
| FE-Met Ed | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Warehouse | Lin. Fluor. Lighting | New | building | 6,608 | 4.1% | 0.04 | 8 | \$3,718 | 0% | 0.0 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 40W T12 w/ Magnetic Ballast | Warehouse | Lin. Fluor. Lighting | Early | Lamp | 155 | 54% | 0.02 | 14 | \$9.1 | 94% | 6.5 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | Early | Lamp | 99 | 28% | 0.01 | 14 | \$9.1 | 24% | 2.2 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | Early | Lamp | 96 | 26% | 0.00 | 14 | \$9.1 | 94% | 1.9 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | New | Lamp | 73 | 26% | 0.00 | 14 | \$2.5 | 94% | 5.3 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | New | Lamp | 73 | 26% | 0.00 | 14 | \$2.5 | 94% | 5.3 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | New | Lamp | 75 | 28% | 0.00 | 14 | \$2.5 | 24% | 5.9 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | New | Lamp | 73 | 26% | 0.00 | 14 | \$2.5 | 94% | 5.3 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | ROB | Lamp | 96 | 26% | 0.00 | 14 | \$2.5 | 94% | 6.9 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | ROB | Lamp | 96 | 26% | 0.00 | 14 | \$2.5 | 94% | 6.9 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | ROB | Lamp | 99 | 28% | 0.01 | 14 | \$2.5 | 24% | 7.8 |
| FE-Met Ed | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | ROB | Lamp | 96 | 26% | 0.00 | 14 | \$2.5 | 94% | 6.9 |
| FE-Met Ed | T8 Lamp (any length) Electronic Ballast | Standard T12 lamp (any length) | Warehouse | Lin. Fluor. Lighting | Early | Lamp | 182 | 42% | 0.01 | 14 | \$14 | 94% | 3.9 |
| FE-Met Ed | Time Clock Control | Lighting w/ No Controls | Warehouse | Lin. Fluor. Lighting | Existing | building | 6,608 | 28% | 0.3 | 8 | \$755 | 14% | 1.0 |
| FE-Met Ed | Time Clock Control | Lighting w/ No Controls | Warehouse | Lin. Fluor. Lighting | New | building | 6,608 | 4.1% | 0.04 | 8 | \$755 | 0% | 0.1 |
| FE-Met Ed | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | Early | motor | 2,728 | 3.6% | 0.01 | 15 | \$374 | 76% | 0.2 |
| FE-Met Ed | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | Early | motor | 2,728 | 3.6% | 0.01 | 15 | \$374 | 76% | 0.2 |
| FE-Met Ed | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | Early | motor | 2,728 | 3.6% | 0.01 | 15 | \$374 | 76% | 0.2 |
| FE-Met Ed | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | Early | motor | 2,728 | 3.6% | 0.01 | 15 | \$374 | 76% | 0.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|--|-----------|---------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | ROB | motor | 142,796 | 0.5% | 0.10 | 15 | \$431 | 70% | 1.2 |
| FE-Met Ed | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | ROB | motor | 142,796 | 0.5% | 0.10 | 15 | \$431 | 70% | 1.2 |
| FE-Met Ed | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | ROB | motor | 142,796 | 0.5% | 0.10 | 15 | \$431 | 70% | 1.2 |
| FE-Met Ed | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | ROB | motor | 142,796 | 0.5% | 0.1 | 15 | \$431 | 70% | 1.2 |
| FE-Met Ed | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | ROB | motor | 142,796 | 0.5% | 0.09 | 15 | \$431 | 70% | 1.2 |
| FE-Met Ed | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | Early | motor | 19,090 | 2.9% | 0.07 | 15 | \$802 | 83% | 0.5 |
| FE-Met Ed | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | Early | motor | 19,090 | 2.9% | 0.07 | 15 | \$802 | 83% | 0.5 |
| FE-Met Ed | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | Early | motor | 19,090 | 2.9% | 0.07 | 15 | \$802 | 83% | 0.5 |
| FE-Met Ed | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | Early | motor | 19,090 | 2.9% | 0.08 | 15 | \$802 | 83% | 0.5 |
| FE-Met Ed | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | Early | motor | 19,090 | 2.9% | 0.07 | 15 | \$802 | 83% | 0.5 |
| FE-Met Ed | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | New | motor | 18,634 | 0.5% | 0.01 | 15 | \$123 | 83% | 0.6 |
| FE-Met Ed | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | New | motor | 18,634 | 0.5% | 0.01 | 15 | \$123 | 83% | 0.6 |
| FE-Met Ed | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | New | motor | 18,634 | 0.6% | 0.01 | 15 | \$123 | 83% | 0.6 |
| FE-Met Ed | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | New | motor | 18,634 | 0.6% | 0.01 | 15 | \$123 | 83% | 0.6 |
| FE-Met Ed | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | New | motor | 18,634 | 0.6% | 0.01 | 15 | \$123 | 83% | 0.6 |
| FE-Met Ed | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | ROB | motor | 18,634 | 0.5% | 0.01 | 15 | \$123 | 83% | 0.6 |
| FE-Met Ed | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | ROB | motor | 18,634 | 0.5% | 0.01 | 15 | \$123 | 83% | 0.6 |
| FE-Met Ed | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | ROB | motor | 18,634 | 0.6% | 0.01 | 15 | \$123 | 83% | 0.6 |
| FE-Met Ed | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | ROB | motor | 18,634 | 0.6% | 0.01 | 15 | \$123 | 83% | 0.6 |
| FE-Met Ed | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | ROB | motor | 18,634 | 0.6% | 0.01 | 15 | \$123 | 83% | 0.6 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | Early | motor | 179,979 | 1.3% | 0.3 | 15 | \$3,955 | 61% | 0.4 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | Early | motor | 179,979 | 1.3% | 0.3 | 15 | \$3,955 | 61% | 0.4 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | Early | motor | 179,979 | 1.3% | 0.3 | 15 | \$3,955 | 61% | 0.4 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | Early | motor | 179,979 | 1.3% | 0.4 | 15 | \$3,955 | 61% | 0.4 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | Early | motor | 179,979 | 1.3% | 0.3 | 15 | \$3,955 | 61% | 0.4 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | New | motor | 178,495 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.1 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | New | motor | 178,495 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.1 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | New | motor | 178,495 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.1 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | New | motor | 178,495 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.2 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | New | motor | 178,495 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.1 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | ROB | motor | 178,495 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.1 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | ROB | motor | 178,495 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.1 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | ROB | motor | 178,495 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.1 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | ROB | motor | 178,495 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.2 |
| FE-Met Ed | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | ROB | motor | 178,495 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.1 |
| FE-Met Ed | ASD HVAC Fan | Std. HVAC Fan | Warehouse | Motors | New | measure | 2,003 | 9.1% | 0.02 | 15 | \$3,702 | 85% | 0.0 |
| FE-Met Ed | ASD HVAC Fan | Std. HVAC Fan | Warehouse | Motors | ROB | measure | 2,003 | 9.1% | 0.02 | 15 | \$3,702 | 85% | 0.0 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Warehouse | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 23.0 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Warehouse | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 23.7 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Warehouse | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 23.8 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Warehouse | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 24.2 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Warehouse | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 25.1 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Warehouse | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 23.2 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Warehouse | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 23.6 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Warehouse | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 23.8 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Warehouse | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 24.3 |
| FE-Met Ed | Downsizing motor during retrofit | Larger hp standard motor | Warehouse | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 25.1 |
| FE-Met Ed | Escalator Motor Controller | Constant power control | Warehouse | Motors | New | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 67% | 6.3 |
| FE-Met Ed | Escalator Motor Controller | Constant power control | Warehouse | Motors | ROB | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 67% | 6.3 |
| FE-Met Ed | Variable Speed Drive Control, 15HP | Existing Motors w/out VSD Drive | Warehouse | Motors | Early | motor | 37,268 | 70% | 3.8 | 15 | \$731 | 86% | 25.0 |
| FE-Met Ed | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Warehouse | Motors | New | motor | 36,467 | 72% | 3.8 | 15 | \$731 | 86% | 25.0 |
| FE-Met Ed | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Warehouse | Motors | ROB | motor | 36,467 | 72% | 3.8 | 15 | \$731 | 86% | 25.0 |
| FE-Met Ed | Variable Speed Drive Control, 40HP | Existing Motors w/out VSD Drive | Warehouse | Motors | Early | motor | 97,245 | 71% | 10.1 | 15 | \$4,666 | 86% | 10.3 |
| FE-Met Ed | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Warehouse | Motors | New | motor | 96,108 | 72% | 10.1 | 15 | \$4,666 | 86% | 10.3 |
| FE-Met Ed | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Warehouse | Motors | ROB | motor | 96,108 | 72% | 10.1 | 15 | \$4,666 | 86% | 10.3 |
| FE-Met Ed | Variable Speed Drive Control, 5HP | Existing Motors w/out VFD Drive | Warehouse | Motors | Early | motor | 12,920 | 72% | 1.4 | 15 | \$2,243 | 86% | 2.9 |
| FE-Met Ed | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Warehouse | Motors | New | motor | 12,631 | 72% | 1.3 | 15 | \$2,243 | 86% | 2.8 |
| FE-Met Ed | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Warehouse | Motors | ROB | motor | 12,631 | 72% | 1.3 | 15 | \$2,243 | 86% | 2.8 |
| FE-Met Ed | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Warehouse | Motors | Early | motor | 3,717 | 30% | 0.1 | 15 | \$268 | 13% | 2.8 |
| FE-Met Ed | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Warehouse | Motors | New | motor | 3,717 | 30% | 0.1 | 15 | \$268 | 13% | 2.8 |
| FE-Met Ed | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Warehouse | Motors | ROB | motor | 3,717 | 30% | 0.1 | 15 | \$268 | 13% | 2.8 |
| FE-Met Ed | VFD on Chilled Water Pump | Motor w/out VFD Drive | Warehouse | Motors | Early | motor | 16,590 | 55% | 2.7 | 15 | \$2,903 | 86% | 2.6 |
| FE-Met Ed | VFD on Chilled Water Pump | Motor w/out VFD Drive | Warehouse | Motors | New | motor | 16,280 | 55% | 2.7 | 15 | \$2,843 | 86% | 2.6 |
| FE-Met Ed | VFD on Chilled Water Pump | Motor w/out VFD Drive | Warehouse | Motors | ROB | motor | 16,280 | 55% | 2.7 | 15 | \$2,843 | 86% | 2.6 |
| FE-Met Ed | VFD on Condenser Water Pump | Motor w/out VFD Drive | Warehouse | Motors | Early | motor | 18,641 | 33% | 3.2 | 15 | \$2,903 | 86% | 2.2 |
| FE-Met Ed | VFD on Condenser Water Pump | Motor w/out VFD Drive | Warehouse | Motors | New | motor | 18,292 | 33% | 3.1 | 15 | \$2,843 | 86% | 2.2 |
| FE-Met Ed | VFD on Condenser Water Pump | Motor w/out VFD Drive | Warehouse | Motors | ROB | motor | 18,292 | 33% | 3.1 | 15 | \$2,843 | 86% | 2.2 |
| FE-Met Ed | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Warehouse | Motors | Early | motor | 27,718 | 56% | 0.00 | 15 | \$2,903 | 86% | 2.9 |
| FE-Met Ed | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Warehouse | Motors | New | motor | 27,199 | 57% | 0.00 | 15 | \$2,843 | 86% | 3.0 |
| FE-Met Ed | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Warehouse | Motors | ROB | motor | 27,199 | 57% | 0.00 | 15 | \$2,843 | 86% | 3.0 |
| FE-Met Ed | VFD on HVAC Fan | Motor w/out VFD | Warehouse | Motors | Early | motor | 18,724 | 70% | 3.4 | 15 | \$2,903 | 86% | 3.7 |
| FE-Met Ed | VFD on HVAC Fan | Motor w/out VFD | Warehouse | Motors | New | motor | 18,373 | 72% | 3.3 | 15 | \$2,843 | 86% | 3.7 |
| FE-Met Ed | VFD on HVAC Fan | Motor w/out VFD | Warehouse | Motors | ROB | motor | 18,373 | 72% | 3.3 | 15 | \$2,843 | 86% | 3.7 |
| FE-Met Ed | Elevators | Std. Eff Elevator | Warehouse | Other | ROB | measure | 89,016 | 0.3% | 0.00 | 15 | \$86 | 63% | 1.7 |
| FE-Met Ed | Variable Speed Drives on Process Equipment | Constant speed control | Warehouse | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 9% | 11.3 |
| FE-Met Ed | Variable Speed Drives on Process Equipment | Constant speed control | Warehouse | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 9% | 11.3 |
| FE-Met Ed | Auto Off Time Switch | Lighting w/ No Controls | Warehouse | Other Int. Lighting | Existing | building | 2,095 | 24% | 0.2 | 8 | \$755 | 13% | 0.4 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|--|-----------|---------------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Auto Off Time Switch | Lighting w/ No Controls | Warehouse | Other Int. Lighting | New | building | 2,095 | 7.0% | 0.07 | 8 | \$755 | 0% | 0.1 |
| FE-Met Ed | Central Lighting Control System | Lighting w/ No Controls | Warehouse | Other Int. Lighting | Existing | building | 2,095 | 38% | 0.4 | 8 | \$755 | 13% | 0.6 |
| FE-Met Ed | Central Lighting Control System | Lighting w/ No Controls | Warehouse | Other Int. Lighting | New | building | 2,095 | 14% | 0.1 | 8 | \$755 | 13% | 0.2 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 40W Incandescent Bulb | Warehouse | Other Int. Lighting | Early | lamp | 157 | 87% | 0.03 | 10 | \$30 | 14% | 2.5 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Warehouse | Other Int. Lighting | Early | lamp | 112 | 81% | 0.02 | 10 | \$30 | 11% | 1.7 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Warehouse | Other Int. Lighting | New | lamp | 85 | 81% | 0.02 | 10 | \$21 | 14% | 1.8 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Warehouse | Other Int. Lighting | New | lamp | 85 | 81% | 0.02 | 10 | \$23 | 14% | 1.7 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Warehouse | Other Int. Lighting | New | lamp | 85 | 81% | 0.02 | 10 | \$22 | 11% | 1.7 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Warehouse | Other Int. Lighting | ROB | lamp | 112 | 81% | 0.02 | 10 | \$21 | 14% | 2.4 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Warehouse | Other Int. Lighting | ROB | lamp | 112 | 81% | 0.02 | 10 | \$23 | 14% | 2.2 |
| FE-Met Ed | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Warehouse | Other Int. Lighting | ROB | lamp | 112 | 81% | 0.02 | 10 | \$22 | 11% | 2.3 |
| FE-Met Ed | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Warehouse | Other Int. Lighting | Early | lamp | 157 | 75% | 0.03 | 4 | \$73 | 24% | 0.4 |
| FE-Met Ed | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Warehouse | Other Int. Lighting | New | fixture | 171 | 65% | 0.02 | 13 | \$29 | 28% | 2.6 |
| FE-Met Ed | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Warehouse | Other Int. Lighting | New | lamp | 85 | 65% | 0.01 | 4 | \$29 | 28% | 0.5 |
| FE-Met Ed | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Warehouse | Other Int. Lighting | ROB | fixture | 225 | 65% | 0.03 | 13 | \$29 | 24% | 3.5 |
| FE-Met Ed | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Warehouse | Other Int. Lighting | ROB | lamp | 112 | 65% | 0.02 | 4 | \$29 | 24% | 0.6 |
| FE-Met Ed | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Warehouse | Other Int. Lighting | Early | lamp | 157 | 75% | 0.03 | 4 | \$3.2 | 24% | 9.3 |
| FE-Met Ed | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Warehouse | Other Int. Lighting | New | lamp | 85 | 65% | 0.01 | 4 | \$1.8 | 24% | 7.9 |
| FE-Met Ed | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Warehouse | Other Int. Lighting | ROB | lamp | 112 | 65% | 0.02 | 4 | \$1.8 | 24% | 10.4 |
| FE-Met Ed | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Warehouse | Other Int. Lighting | ROB | lamp | 112 | 65% | 0.02 | 4 | \$1.8 | 24% | 10.4 |
| FE-Met Ed | Exit Sign Retrofit: CFL replacing Incandescent | One 23W Single Sided Incandescent Exit Sign | Warehouse | Other Int. Lighting | Early | exit sign | 140 | 42% | 0.01 | 15 | \$48 | 22% | 0.8 |
| FE-Met Ed | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Warehouse | Other Int. Lighting | New | building | 2,095 | 10% | 0.1 | 15 | \$31,316 | 32% | 0.0 |
| FE-Met Ed | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Warehouse | Other Int. Lighting | New | building | 2,095 | 15% | 0.2 | 15 | \$78,291 | 32% | 0.0 |
| FE-Met Ed | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Warehouse | Other Int. Lighting | New | building | 2,095 | 30% | 0.3 | 15 | \$112,217 | 32% | 0.0 |
| FE-Met Ed | Indoor Daylight Sensors | Lighting w/ No Controls | Warehouse | Other Int. Lighting | Existing | building | 2,095 | 28% | 0.3 | 8 | \$3,718 | 13% | 0.1 |
| FE-Met Ed | Indoor Daylight Sensors | Lighting w/ No Controls | Warehouse | Other Int. Lighting | New | building | 2,095 | 4.1% | 0.04 | 8 | \$3,718 | 0% | 0.0 |
| FE-Met Ed | LED Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Warehouse | Other Int. Lighting | Early | sign | 153 | 87% | 0.02 | 15 | \$48 | 16% | 1.9 |
| FE-Met Ed | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Warehouse | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 2.1 |
| FE-Met Ed | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Warehouse | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 2.1 |
| FE-Met Ed | LED Task Lighting/Screw-In | 1 15W CFL bulb | Warehouse | Other Int. Lighting | Early | lamp | 43 | 33% | 0.00 | 9 | \$9.6 | 24% | 0.8 |
| FE-Met Ed | LED Task Lighting/Screw-In | 1 60W Incandescent Bulb | Warehouse | Other Int. Lighting | Early | lamp | 173 | 83% | 0.03 | 9 | \$9.6 | 24% | 7.5 |
| FE-Met Ed | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Warehouse | Other Int. Lighting | New | lamp | 94 | 77% | 0.01 | 9 | \$7.9 | 24% | 4.6 |
| FE-Met Ed | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Warehouse | Other Int. Lighting | New | lamp | 94 | 77% | 0.01 | 9 | \$7.9 | 24% | 4.6 |
| FE-Met Ed | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Warehouse | Other Int. Lighting | ROB | lamp | 124 | 77% | 0.02 | 9 | \$7.9 | 24% | 6.0 |
| FE-Met Ed | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Warehouse | Other Int. Lighting | ROB | lamp | 124 | 77% | 0.02 | 9 | \$7.9 | 24% | 6.0 |
| FE-Met Ed | Occupancy Sensor | Lighting w/ No Controls | Warehouse | Other Int. Lighting | Existing | building | 2,095 | 24% | 0.2 | 8 | \$1,138 | 12% | 0.3 |
| FE-Met Ed | Occupancy Sensor | Lighting w/ No Controls | Warehouse | Other Int. Lighting | New | building | 2,095 | 7.0% | 0.07 | 8 | \$1,138 | 0% | 0.1 |
| FE-Met Ed | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Warehouse | Other Int. Lighting | Existing | building | 2,095 | 28% | 0.3 | 8 | \$3,718 | 12% | 0.1 |
| FE-Met Ed | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Warehouse | Other Int. Lighting | New | building | 2,095 | 4.1% | 0.04 | 8 | \$3,718 | 0% | 0.0 |
| FE-Met Ed | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Warehouse | Other Int. Lighting | Early | exit sign | 140 | 100% | 0.02 | 15 | \$173 | 26% | 0.6 |
| FE-Met Ed | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Warehouse | Other Int. Lighting | New | exit sign | 81 | 100% | 0.01 | 15 | \$148 | 31% | 0.4 |
| FE-Met Ed | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Warehouse | Other Int. Lighting | ROB | exit sign | 81 | 100% | 0.01 | 15 | \$148 | 26% | 0.4 |
| FE-Met Ed | Time Clock Control | Lighting w/ No Controls | Warehouse | Other Int. Lighting | Existing | building | 2,095 | 28% | 0.3 | 8 | \$755 | 13% | 0.5 |
| FE-Met Ed | Time Clock Control | Lighting w/ No Controls | Warehouse | Other Int. Lighting | New | building | 2,095 | 4.1% | 0.04 | 8 | \$755 | 0% | 0.1 |
| FE-Met Ed | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Warehouse | Plug Load | Existing | building | 1,105 | 46% | 0.5 | 5 | \$189 | 4% | 1.6 |
| FE-Met Ed | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Warehouse | Plug Load | New | building | 1,105 | 46% | 0.5 | 5 | \$189 | 4% | 1.6 |
| FE-Met Ed | Data Center - Server/Storage Consolidation | No Consolidation | Warehouse | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Met Ed | Data Center - Server/Storage Consolidation | No Consolidation | Warehouse | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Met Ed | Data Center - Server/Storage Virtualization | No Virtualization | Warehouse | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Met Ed | Data Center - Server/Storage Virtualization | No Virtualization | Warehouse | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Met Ed | Energy Star - Scanners | Std Scanner | Warehouse | Plug Load | New | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| FE-Met Ed | Energy Star - Scanners | Std Scanner | Warehouse | Plug Load | ROB | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| FE-Met Ed | Energy Star Dishwasher | Existing Dishwasher units | Warehouse | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,580 | 1% | 1.1 |
| FE-Met Ed | Energy Star Dishwasher | Standard Dishwasher unit | Warehouse | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 1% | 3.5 |
| FE-Met Ed | Energy Star Dishwasher | Standard Dishwasher unit | Warehouse | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 1% | 3.5 |
| FE-Met Ed | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Warehouse | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 16% | 0.2 |
| FE-Met Ed | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Warehouse | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 16% | 2.1 |
| FE-Met Ed | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Warehouse | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 16% | 2.1 |
| FE-Met Ed | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Warehouse | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 9% | 0.8 |
| FE-Met Ed | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Warehouse | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.7 |
| FE-Met Ed | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Warehouse | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.7 |
| FE-Met Ed | ENERGY STAR® Copiers | 10% Less Efficient Copier | Warehouse | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 17% | 0.0 |
| FE-Met Ed | ENERGY STAR® Copiers | One Conventional Copier | Warehouse | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 17% | 0.0 |
| FE-Met Ed | ENERGY STAR® Copiers | One Conventional Copier | Warehouse | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 17% | 0.0 |
| FE-Met Ed | ENERGY STAR® desktop | Standard computer | Warehouse | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 69% | 0.1 |
| FE-Met Ed | ENERGY STAR® desktop | Standard computer | Warehouse | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.4 |
| FE-Met Ed | ENERGY STAR® desktop | Standard computer | Warehouse | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.4 |
| FE-Met Ed | ENERGY STAR® Fax | 10% Less Efficient Fax | Warehouse | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 15% | 0.0 |
| FE-Met Ed | ENERGY STAR® Fax | One Conventional Fax | Warehouse | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| FE-Met Ed | ENERGY STAR® Fax | One Conventional Fax | Warehouse | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|---|-----------|---------------|----------|-------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Warehouse | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 69% | 0.0 |
| FE-Met Ed | ENERGY STAR® Monitors | One Conventional Monitor | Warehouse | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 69% | 0.0 |
| FE-Met Ed | ENERGY STAR® Monitors | One Conventional Monitor | Warehouse | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 69% | 0.0 |
| FE-Met Ed | ENERGY STAR® Printers | 10% Less Efficient Printer | Warehouse | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 43% | 0.0 |
| FE-Met Ed | ENERGY STAR® Printers | One Conventional Printer | Warehouse | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 43% | 0.4 |
| FE-Met Ed | ENERGY STAR® Printers | One Conventional Printer | Warehouse | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$130 | 43% | 0.4 |
| FE-Met Ed | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Warehouse | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 43% | 0.1 |
| FE-Met Ed | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Warehouse | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.8 |
| FE-Met Ed | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Warehouse | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.8 |
| FE-Met Ed | ENERGY STAR® Televisions | 10% Less Efficient Television | Warehouse | Plug Load | Early | Unit | 199 | 38% | 0.01 | 6 | \$672 | 41% | 0.0 |
| FE-Met Ed | ENERGY STAR® Televisions | One Conventional Television | Warehouse | Plug Load | New | Unit | 181 | 32% | 0.01 | 6 | \$206 | 41% | 0.1 |
| FE-Met Ed | ENERGY STAR® Televisions | One Conventional Television | Warehouse | Plug Load | ROB | Unit | 181 | 32% | 0.01 | 6 | \$206 | 41% | 0.1 |
| FE-Met Ed | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Warehouse | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 24% | 0.3 |
| FE-Met Ed | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Warehouse | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.7 |
| FE-Met Ed | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Warehouse | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.7 |
| FE-Met Ed | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Warehouse | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.3 |
| FE-Met Ed | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Warehouse | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.3 |
| FE-Met Ed | Network PC Power Management | No PC Power Management | Warehouse | Plug Load | Existing | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 7.6 |
| FE-Met Ed | Network PC Power Management | No PC Power Management | Warehouse | Plug Load | New | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 7.6 |
| FE-Met Ed | Smart Strip Plug Outlets | Standard plug strip/outlet | Warehouse | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.5 |
| FE-Met Ed | Smart Strip Plug Outlets | Standard plug strip/outlet | Warehouse | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.5 |
| FE-Met Ed | Smart Strip Plug Outlets | Standard plug strip/outlet | Warehouse | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Met Ed | Smart Strip Plug Outlets | Standard plug strip/outlet | Warehouse | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Met Ed | Smart Strip Plug Outlets | Standard plug strip/outlet | Warehouse | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Met Ed | Smart Strip Plug Outlets | Standard plug strip/outlet | Warehouse | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Met Ed | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Warehouse | Plug Load | Existing | building | 1,105 | 46% | 0.5 | 5 | \$180 | 3% | 1.6 |
| FE-Met Ed | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Warehouse | Plug Load | New | building | 1,105 | 46% | 0.5 | 5 | \$180 | 3% | 1.6 |
| FE-Met Ed | Auto Closer on Refrigerator Door | Door w/out Autocloser | Warehouse | Refrigeration | Existing | building | 5,747 | 8.2% | 0.08 | 8 | \$642 | 40% | 0.3 |
| FE-Met Ed | Auto Closer on Refrigerator Door | Door w/out Autocloser | Warehouse | Refrigeration | Existing | building | 19,251 | 3.4% | 0.03 | 8 | \$476 | 40% | 0.5 |
| FE-Met Ed | Auto Closer on Refrigerator Door | Door w/out Autocloser | Warehouse | Refrigeration | New | building | 5,747 | 8.2% | 0.08 | 8 | \$642 | 40% | 0.3 |
| FE-Met Ed | Auto Closer on Refrigerator Door | Door w/out Autocloser | Warehouse | Refrigeration | New | building | 19,251 | 3.4% | 0.03 | 8 | \$476 | 40% | 0.5 |
| FE-Met Ed | Door Gasket- Freezer | Door w/out Gasket | Warehouse | Refrigeration | Existing | building | 5,747 | 4.4% | 0.04 | 4 | \$66 | 29% | 0.9 |
| FE-Met Ed | Door Gasket- Freezer | Door w/out Gasket | Warehouse | Refrigeration | New | building | 5,747 | 4.4% | 0.04 | 4 | \$66 | 29% | 0.9 |
| FE-Met Ed | Door Gasket- Refrigerator | Door w/out Gasket | Warehouse | Refrigeration | Existing | building | 19,251 | 1.1% | 0.01 | 4 | \$66 | 45% | 0.6 |
| FE-Met Ed | Door Gasket- Refrigerator | Door w/out Gasket | Warehouse | Refrigeration | New | building | 19,251 | 1.1% | 0.01 | 4 | \$66 | 45% | 0.6 |
| FE-Met Ed | eCube | Refrigeration unit w/out eCube | Warehouse | Refrigeration | Existing | building | 19,251 | 15% | 0.2 | 15 | \$144 | 57% | 11.8 |
| FE-Met Ed | eCube | Refrigeration unit w/out eCube | Warehouse | Refrigeration | New | building | 19,251 | 15% | 0.2 | 15 | \$144 | 57% | 11.8 |
| FE-Met Ed | Efficient compressor motor | Base Refrigeration System - Grocery | Warehouse | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| FE-Met Ed | Efficient compressor motor | Base Refrigeration System - Grocery | Warehouse | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| FE-Met Ed | Efficient compressor motor | Base Refrigeration System - Grocery | Warehouse | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| FE-Met Ed | Efficient compressor motor | Base Refrigeration System - Grocery | Warehouse | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| FE-Met Ed | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Warehouse | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.6 |
| FE-Met Ed | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Warehouse | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| FE-Met Ed | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Warehouse | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| FE-Met Ed | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Warehouse | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.3 |
| FE-Met Ed | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Warehouse | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.8 |
| FE-Met Ed | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Warehouse | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.8 |
| FE-Met Ed | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Warehouse | Refrigeration | Existing | building | 19,251 | 0.6% | 0.01 | 10 | \$369 | 77% | 0.1 |
| FE-Met Ed | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Warehouse | Refrigeration | New | building | 19,251 | 0.6% | 0.01 | 10 | \$369 | 77% | 0.1 |
| FE-Met Ed | Floating head pressure controller | System w/out FHPC | Warehouse | Refrigeration | Existing | building | 5,747 | 4.0% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-Met Ed | Floating head pressure controller | System w/out FHPC | Warehouse | Refrigeration | Existing | building | 19,251 | 0.4% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| FE-Met Ed | Floating head pressure controller | System w/out FHPC | Warehouse | Refrigeration | New | building | 5,747 | 4.0% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-Met Ed | Floating head pressure controller | System w/out FHPC | Warehouse | Refrigeration | New | building | 19,251 | 0.4% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| FE-Met Ed | High Efficiency Commercial Freezer | Std. Commercial Freezer | Warehouse | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 86% | 0.3 |
| FE-Met Ed | High Efficiency Commercial Freezer | Std. Commercial Freezer | Warehouse | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 4.1 |
| FE-Met Ed | High Efficiency Commercial Freezer | Std. Commercial Freezer | Warehouse | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 4.1 |
| FE-Met Ed | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Warehouse | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 2% | 0.1 |
| FE-Met Ed | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Warehouse | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.9 |
| FE-Met Ed | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Warehouse | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.9 |
| FE-Met Ed | High Efficiency Ice Maker | Existing Standard Efficiency Ice Maker in Pennsylvania | Warehouse | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 73% | 0.2 |
| FE-Met Ed | High Efficiency Ice Maker | Standard code minimum Ice Maker | Warehouse | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| FE-Met Ed | High Efficiency Ice Maker | Standard code minimum Ice Maker | Warehouse | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| FE-Met Ed | High Efficiency Ice Making Head | Standard Ice Making Head | Warehouse | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 4.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|--|-----------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | High Efficiency Ice Making Head | Standard Ice Making Head | Warehouse | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 4.0 |
| FE-Met Ed | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Warehouse | Refrigeration | Early | Fixture | 373 | 56% | 0.02 | 8 | \$448 | 47% | 0.2 |
| FE-Met Ed | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Warehouse | Refrigeration | New | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 47% | 0.3 |
| FE-Met Ed | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Warehouse | Refrigeration | ROB | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 47% | 0.3 |
| FE-Met Ed | Quick acting freezer doors | Std. Freezer Doors | Warehouse | Refrigeration | Existing | building | 5,747 | 13% | 0.1 | 10 | \$2,280 | 56% | 0.2 |
| FE-Met Ed | Quick acting freezer doors | Std. Freezer Doors | Warehouse | Refrigeration | New | building | 5,747 | 13% | 0.1 | 10 | \$2,280 | 56% | 0.2 |
| FE-Met Ed | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Warehouse | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 30% | 0.4 |
| FE-Met Ed | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Warehouse | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.6 |
| FE-Met Ed | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Warehouse | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.6 |
| FE-Met Ed | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 30% | 1.7 |
| FE-Met Ed | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 3.0 |
| FE-Met Ed | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 3.0 |
| FE-Met Ed | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 30% | 1.7 |
| FE-Met Ed | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 4.0 |
| FE-Met Ed | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 4.0 |
| FE-Met Ed | Refrigeration Commissioning | Non-commissioned refrigeration system | Warehouse | Refrigeration | Existing | building | 28,733 | 9.5% | 0.10 | 3 | \$4,963 | 85% | 0.1 |
| FE-Met Ed | Refrigeration Commissioning | Non-commissioned refrigeration system | Warehouse | Refrigeration | New | building | 28,733 | 9.5% | 0.10 | 3 | \$4,963 | 85% | 0.1 |
| FE-Met Ed | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Warehouse | Refrigeration | Existing | building | 5,747 | 11% | 0.1 | 4 | \$80 | 22% | 1.7 |
| FE-Met Ed | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Warehouse | Refrigeration | Existing | building | 19,251 | 1.5% | 0.02 | 4 | \$80 | 22% | 0.7 |
| FE-Met Ed | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Warehouse | Refrigeration | New | building | 5,747 | 11% | 0.1 | 4 | \$80 | 22% | 1.7 |
| FE-Met Ed | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Warehouse | Refrigeration | New | building | 19,251 | 1.5% | 0.02 | 4 | \$80 | 22% | 0.7 |
| FE-Met Ed | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Warehouse | Refrigeration | Existing | building | 5,747 | 2.6% | 0.03 | 11 | \$152 | 80% | 0.5 |
| FE-Met Ed | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Warehouse | Refrigeration | New | building | 5,747 | 2.6% | 0.03 | 11 | \$152 | 80% | 0.5 |
| FE-Met Ed | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Warehouse | Refrigeration | Existing | building | 19,251 | 2.0% | 0.02 | 11 | \$152 | 80% | 1.1 |
| FE-Met Ed | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Warehouse | Refrigeration | New | building | 19,251 | 2.0% | 0.02 | 11 | \$152 | 80% | 1.1 |
| FE-Met Ed | VSD Controlled Compressor | Compressor w/out VSD | Warehouse | Refrigeration | Early | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.2 |
| FE-Met Ed | VSD Controlled Compressor | Compressor w/out VSD | Warehouse | Refrigeration | New | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.2 |
| FE-Met Ed | VSD Controlled Compressor | Compressor w/out VSD | Warehouse | Refrigeration | ROB | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.2 |
| FE-Met Ed | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Warehouse | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$269 | 35% | 0.9 |
| FE-Met Ed | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Warehouse | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$269 | 35% | 0.9 |
| FE-Met Ed | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Warehouse | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.2 |
| FE-Met Ed | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Warehouse | Refrigeration | New | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 3.0 |
| FE-Met Ed | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Warehouse | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.2 |
| FE-Met Ed | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Warehouse | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 3.0 |
| FE-Met Ed | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 35% | 2.4 |
| FE-Met Ed | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 35% | 2.3 |
| FE-Met Ed | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 5.2 |
| FE-Met Ed | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.9 |
| FE-Met Ed | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 5.2 |
| FE-Met Ed | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.9 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Warehouse | Space Heating | Existing | building | 11,299 | 7.1% | 0.07 | 6 | \$20,330 | 82% | 0.0 |
| FE-Met Ed | Adding reflective roof treatment | Std color roof | Warehouse | Space Heating | New | building | 11,299 | 7.1% | 0.07 | 6 | \$20,330 | 82% | 0.0 |
| FE-Met Ed | Adding window shade film | No shade film | Warehouse | Space Heating | Existing | building | 11,299 | 1.3% | 0.4 | 10 | \$137 | 13% | 2.3 |
| FE-Met Ed | Adding window shade film | No shade film | Warehouse | Space Heating | New | building | 11,299 | 1.3% | 0.4 | 10 | \$137 | 13% | 2.3 |
| FE-Met Ed | Adding window shade screen | No shade screen | Warehouse | Space Heating | Existing | building | 11,299 | 1.1% | 0.01 | 10 | \$53 | 13% | 1.0 |
| FE-Met Ed | Adding window shade screen | No shade screen | Warehouse | Space Heating | New | building | 11,299 | 1.1% | 0.01 | 10 | \$53 | 13% | 1.0 |
| FE-Met Ed | Automated control system | Manual Controls | Warehouse | Space Heating | Existing | building | 11,299 | 17% | 0.2 | 15 | \$12,370 | 51% | 0.1 |
| FE-Met Ed | Automated control system | Manual Controls | Warehouse | Space Heating | New | building | 11,299 | 17% | 0.2 | 15 | \$12,370 | 94% | 0.1 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Warehouse | Space Heating | Existing | building | 11,299 | 5.9% | 0.06 | 15 | \$27,901 | 71% | 0.0 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Warehouse | Space Heating | New | building | 11,299 | 3.7% | 0.04 | 15 | \$26,520 | 94% | 0.0 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Warehouse | Space Heating | Existing | building | 11,299 | 1.4% | 0.04 | 15 | \$90 | 20% | 1.3 |
| FE-Met Ed | Duct Insulation, Add R8 | No Insulation | Warehouse | Space Heating | New | building | 11,299 | 1.4% | 0.04 | 15 | \$90 | 10% | 1.3 |
| FE-Met Ed | Efficient Unit Heating System | Existing Unit Heaters in PA | Warehouse | Space Heating | Early | heater | 18,988 | 23% | 0.03 | 15 | \$3,289 | 83% | 0.7 |
| FE-Met Ed | Efficient Unit Heating System | Std. Unit Heater | Warehouse | Space Heating | New | heater | 16,852 | 13% | 0.02 | 15 | \$1,991 | 83% | 0.6 |
| FE-Met Ed | Efficient Unit Heating System | Std. Unit Heater | Warehouse | Space Heating | ROB | heater | 16,852 | 13% | 0.02 | 15 | \$1,991 | 83% | 0.6 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Warehouse | Space Heating | Existing | building | 11,299 | 7.1% | 0.07 | 15 | \$50,120 | 25% | 0.0 |
| FE-Met Ed | Green Roof (New construction or roof replacement) | Std Roof | Warehouse | Space Heating | New | building | 11,299 | 7.1% | 0.07 | 15 | \$50,120 | 35% | 0.0 |
| FE-Met Ed | Hi Eff HVAC System Design | No HVAC Design | Warehouse | Space Heating | New | building | 11,299 | 12% | 0.1 | 10 | \$127,404 | 51% | 0.0 |
| FE-Met Ed | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Warehouse | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 1.1 |
| FE-Met Ed | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Warehouse | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 1.1 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Warehouse | Space Heating | Existing | building | 11,299 | 1.1% | 0.01 | 10 | \$7,735 | 81% | 0.0 |
| FE-Met Ed | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Warehouse | Space Heating | New | building | 11,299 | 1.1% | 0.01 | 10 | \$7,735 | 81% | 0.0 |
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Warehouse | Space Heating | Existing | building | 11,299 | 3.6% | 0.04 | 11 | \$286 | 49% | 0.7 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|--|---|-----------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Warehouse | Space Heating | New | building | 11,299 | 3.1% | 0.03 | 11 | \$146 | 49% | 1.1 |
| FE-Met Ed | Re-Commissioning (Existing Construction) | No Re-Commissioning | Warehouse | Space Heating | Existing | building | 11,299 | 16% | 0.2 | 5 | \$8,619 | 86% | 0.1 |
| FE-Met Ed | VFD on Cooling Tower Fan | Motor w/out VFD | Warehouse | Space Heating | Early | motor | 18,724 | 70% | 3.4 | 15 | \$2,843 | 88% | 3.6 |
| FE-Met Ed | VFD on Cooling Tower Fan | Motor w/out VFD | Warehouse | Space Heating | New | motor | 18,373 | 72% | 3.3 | 15 | \$2,843 | 88% | 3.6 |
| FE-Met Ed | VFD on Cooling Tower Fan | Motor w/out VFD | Warehouse | Space Heating | ROB | motor | 18,373 | 72% | 3.3 | 15 | \$2,843 | 88% | 3.6 |
| FE-Met Ed | Wall Insultions (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Warehouse | Space Heating | Existing | building | 11,299 | 19% | 0.2 | 15 | \$6,551 | 26% | 0.2 |
| FE-Met Ed | Wall Insultions (Going upto R 21) | Code minimum Wall Insulations | Warehouse | Space Heating | New | building | 11,299 | 0.6% | 0.01 | 15 | \$5,025 | 94% | 0.0 |
| FE-Met Ed | Green LED Traffic Light | Green Incandescent Traffic Light | Warehouse | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 0% | 1.3 |
| FE-Met Ed | Green LED Traffic Light | Green Incandescent Traffic Light | Warehouse | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.2 |
| FE-Met Ed | Green LED Traffic Light | Green Incandescent Traffic Light | Warehouse | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.2 |
| FE-Met Ed | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Warehouse | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 0% | 3.1 |
| FE-Met Ed | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Warehouse | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-Met Ed | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Warehouse | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-Met Ed | Induction Street Lighting | One 100W HPS Street Light Fixture | Warehouse | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 0% | 0.3 |
| FE-Met Ed | Induction Street Lighting | One 100W HPS Street Light Fixture | Warehouse | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.8 |
| FE-Met Ed | Induction Street Lighting | One 100W HPS Street Light Fixture | Warehouse | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.8 |
| FE-Met Ed | LED Street Lighting | One 100W HPS Street Light | Warehouse | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 0% | 0.2 |
| FE-Met Ed | LED Street Lighting | One 100W HPS Street Light | Warehouse | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-Met Ed | LED Street Lighting | One 100W HPS Street Light | Warehouse | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-Met Ed | Red LED Traffic Light | One Red Incandescent Traffic Light | Warehouse | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 0% | 1.7 |
| FE-Met Ed | Red LED Traffic Light | One Red Incandescent Traffic Light | Warehouse | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| FE-Met Ed | Red LED Traffic Light | One Red Incandescent Traffic Light | Warehouse | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| FE-Met Ed | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Warehouse | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 0% | 0.1 |
| FE-Met Ed | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Warehouse | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-Met Ed | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Warehouse | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-Met Ed | Demand controlled Circulating Systems | Constant circulation system | Warehouse | Water Heating | Existing | building | 2,385 | 20% | 0.2 | 15 | \$433 | 59% | 1.1 |
| FE-Met Ed | Demand controlled Circulating Systems | Demand controlled Circulating Systems | Warehouse | Water Heating | New | building | 2,385 | 20% | 0.2 | 15 | \$433 | 59% | 1.1 |
| FE-Met Ed | Drainwater Heat Recovery Water Heater | No heat recovery | Warehouse | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 2.0 |
| FE-Met Ed | Drainwater Heat Recovery Water Heater | No heat recovery | Warehouse | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 2.0 |
| FE-Met Ed | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Warehouse | Water Heating | Existing | building | 2,385 | 5.9% | 0.06 | 12 | \$14 | 85% | 8.0 |
| FE-Met Ed | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Warehouse | Water Heating | New | building | 2,385 | 5.9% | 0.06 | 12 | \$4.0 | 85% | 28.1 |
| FE-Met Ed | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Warehouse | Water Heating | Early | water heater | 7,897 | 66% | 0.9 | 10 | \$1,187 | 29% | 2.3 |
| FE-Met Ed | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Warehouse | Water Heating | Early | water heater | 7,897 | 66% | 0.9 | 10 | \$1,187 | 29% | 2.3 |
| FE-Met Ed | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Warehouse | Water Heating | New | water heater | 7,897 | 66% | 0.9 | 10 | \$1,187 | 29% | 2.3 |
| FE-Met Ed | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Warehouse | Water Heating | New | water heater | 7,897 | 66% | 0.9 | 10 | \$1,187 | 29% | 2.3 |
| FE-Met Ed | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Warehouse | Water Heating | ROB | water heater | 7,678 | 65% | 0.9 | 10 | \$1,187 | 29% | 2.2 |
| FE-Met Ed | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Warehouse | Water Heating | ROB | water heater | 7,678 | 65% | 0.9 | 10 | \$1,187 | 29% | 2.2 |
| FE-Met Ed | Heat Recovery Unit | Base Water Heating | Warehouse | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.7 |
| FE-Met Ed | Heat Recovery Unit | Base Water Heating | Warehouse | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.7 |
| FE-Met Ed | Heat Trap | No Heat Trap | Warehouse | Water Heating | New | building | 2,385 | 22% | 0.2 | 11 | \$2.4 | 21% | 163.5 |
| FE-Met Ed | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Warehouse | Water Heating | Early | water heater | 7,897 | 5.9% | 0.08 | 15 | \$307 | 36% | 1.1 |
| FE-Met Ed | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Warehouse | Water Heating | Early | water heater | 7,897 | 5.9% | 0.08 | 15 | \$307 | 36% | 1.1 |
| FE-Met Ed | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Warehouse | Water Heating | New | water heater | 7,678 | 3.2% | 0.04 | 15 | \$307 | 36% | 0.6 |
| FE-Met Ed | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Warehouse | Water Heating | New | water heater | 7,678 | 3.2% | 0.04 | 15 | \$307 | 36% | 0.6 |
| FE-Met Ed | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Warehouse | Water Heating | ROB | water heater | 7,678 | 3.2% | 0.04 | 15 | \$307 | 36% | 0.6 |
| FE-Met Ed | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Warehouse | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$466 | 81% | 41.0 |
| FE-Met Ed | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Warehouse | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 21.4 |
| FE-Met Ed | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Warehouse | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 21.4 |
| FE-Met Ed | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Warehouse | Water Heating | Existing | building | 2,385 | 0.8% | 0.01 | 13 | \$3.0 | 30% | 5.4 |
| FE-Met Ed | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Warehouse | Water Heating | New | building | 2,385 | 0.8% | 0.01 | 13 | \$3.0 | 0% | 5.4 |
| FE-Met Ed | Hot Water Circulation Pump Time-Clock | Constant circulation system | Warehouse | Water Heating | Existing | building | 2,385 | 5.3% | 0.05 | 10 | \$9.6 | 72% | 9.1 |
| FE-Met Ed | Hot Water Circulation Pump Time-Clock | Constant circulation system | Warehouse | Water Heating | New | building | 2,385 | 5.3% | 0.05 | 10 | \$9.6 | 72% | 9.1 |
| FE-Met Ed | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Warehouse | Water Heating | Existing | building | 2,385 | 1.2% | 0.01 | 7 | \$22 | 35% | 0.7 |
| FE-Met Ed | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Warehouse | Water Heating | New | building | 2,385 | 1.1% | 0.01 | 7 | \$0.5 | 35% | 27.8 |
| FE-Met Ed | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Warehouse | Water Heating | Existing | building | 2,385 | 8.0% | 0.08 | 5 | \$300 | 0% | 0.2 |
| FE-Met Ed | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Warehouse | Water Heating | New | building | 2,385 | 5.3% | 0.05 | 5 | \$194 | 0% | 0.3 |
| FE-Met Ed | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Warehouse | Water Heating | Existing | building | 2,385 | 6.5% | 0.07 | 9 | \$25 | 2% | 4.0 |
| FE-Met Ed | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Warehouse | Water Heating | New | building | 2,385 | 6.5% | 0.07 | 9 | \$6.0 | 2% | 16.5 |
| FE-Met Ed | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Warehouse | Water Heating | Early | water heater | 7,897 | 52% | 0.3 | 15 | \$6,222 | 14% | 0.4 |
| FE-Met Ed | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Warehouse | Water Heating | New | water heater | 7,678 | 51% | 0.3 | 15 | \$6,222 | 14% | 0.4 |
| FE-Met Ed | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Warehouse | Water Heating | ROB | water heater | 7,678 | 51% | 0.3 | 15 | \$6,222 | 14% | 0.4 |
| FE-Met Ed | Ultrasonic Faucet Control | Manual Faucet Control | Warehouse | Water Heating | Existing | building | 2,385 | 3.1% | 0.03 | 10 | \$412 | 54% | 0.1 |
| FE-Met Ed | Ultrasonic Faucet Control | Manual Faucet Control | Warehouse | Water Heating | New | building | 2,385 | 3.1% | 0.03 | 10 | \$412 | 54% | 0.1 |
| FE-Met Ed | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Warehouse | Water Heating | Existing | building | 2,385 | 2.2% | 0.02 | 4 | \$28 | 35% | 0.6 |
| FE-Met Ed | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Warehouse | Water Heating | New | building | 2,385 | 2.3% | 0.02 | 4 | \$28 | 35% | 0.6 |
| FE-Penelec | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Education | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.1 |
| FE-Penelec | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Education | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|--|---|-----------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Education | Cooking | Early | steamer | 43 | 48% | 0.00 | 12 | \$5,053 | 81% | 0.0 |
| FE-Penelec | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Education | Cooking | New | steamer | 34 | 34% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-Penelec | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Education | Cooking | ROB | steamer | 34 | 34% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-Penelec | Electric combination oven (Energy Star) | Standard Oven | Education | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.9 |
| FE-Penelec | Electric combination oven (Energy Star) | Standard Oven | Education | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.9 |
| FE-Penelec | Electric Convection Oven | Conventional convection oven w/ 65% efficiency | Education | Cooking | Early | oven | 6,481 | 37% | 0.5 | 12 | \$4,119 | 81% | 0.3 |
| FE-Penelec | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Education | Cooking | New | oven | 5,186 | 22% | 0.2 | 12 | \$1,113 | 81% | 0.6 |
| FE-Penelec | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Education | Cooking | ROB | oven | 5,186 | 22% | 0.2 | 12 | \$1,113 | 81% | 0.6 |
| FE-Penelec | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Education | Cooking | Early | fryer | 4,591 | 24% | 0.2 | 12 | \$9,241 | 86% | 0.1 |
| FE-Penelec | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Education | Cooking | New | fryer | 4,591 | 24% | 0.2 | 12 | \$2,366 | 86% | 0.3 |
| FE-Penelec | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Education | Cooking | ROB | fryer | 4,591 | 24% | 0.2 | 12 | \$2,366 | 86% | 0.3 |
| FE-Penelec | High Efficiency Griddle (ENERGY STAR) | Efficiency code minimum griddle (70% eff) | Education | Cooking | Early | griddle | 8,725 | 67% | 1.1 | 12 | \$4,977 | 86% | 0.7 |
| FE-Penelec | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Education | Cooking | New | griddle | 5,556 | 48% | 0.5 | 12 | \$1,700 | 86% | 0.9 |
| FE-Penelec | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Education | Cooking | ROB | griddle | 5,556 | 48% | 0.5 | 12 | \$1,700 | 86% | 0.9 |
| FE-Penelec | High Efficiency Induction Cooking | Standard Cooking | Education | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-Penelec | High Efficiency Induction Cooking | Standard Cooking | Education | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Education | Cooling Central | Existing | building | 9,649 | 7.0% | 0.07 | 6 | \$19,621 | 82% | 0.0 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Education | Cooling Central | New | building | 9,649 | 7.0% | 0.07 | 6 | \$19,621 | 82% | 0.0 |
| FE-Penelec | Adding window shade film | No shade film | Education | Cooling Central | Existing | building | 9,649 | 1.3% | 0.4 | 10 | \$117 | 12% | 2.6 |
| FE-Penelec | Adding window shade film | No shade film | Education | Cooling Central | New | building | 9,649 | 1.3% | 0.4 | 10 | \$117 | 13% | 2.6 |
| FE-Penelec | Adding window shade screen | No shade screen | Education | Cooling Central | Existing | building | 9,649 | 1.0% | 0.01 | 10 | \$45 | 13% | 1.0 |
| FE-Penelec | Adding window shade screen | No shade screen | Education | Cooling Central | New | building | 9,649 | 1.1% | 0.01 | 10 | \$45 | 13% | 1.0 |
| FE-Penelec | Automated control system | Manual Controls | Education | Cooling Central | Existing | building | 9,649 | 17% | 0.2 | 15 | \$10,563 | 51% | 0.1 |
| FE-Penelec | Automated control system | Manual Controls | Education | Cooling Central | New | building | 9,649 | 17% | 0.2 | 15 | \$10,563 | 94% | 0.1 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Education | Cooling Central | Existing | building | 9,649 | 1.6% | 0.02 | 15 | \$26,439 | 71% | 0.0 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Education | Cooling Central | New | building | 9,649 | 0.5% | 0.01 | 15 | \$25,131 | 94% | 0.0 |
| FE-Penelec | Chiller Tuneup/Diagnostics | No tuneup | Education | Cooling Central | Existing | building | 9,649 | 8.0% | 0.08 | 10 | \$24,637 | 59% | 0.0 |
| FE-Penelec | Chiller Tuneup/Diagnostics | No tuneup | Education | Cooling Central | New | building | 9,649 | 8.0% | 0.08 | 10 | \$24,637 | 59% | 0.0 |
| FE-Penelec | Commercial energy recovery ventilation systems | No Commercial Recovery System | Education | Cooling Central | Existing | building | 9,649 | 16% | 0.2 | 14 | \$8,719 | 71% | 0.1 |
| FE-Penelec | Cooling Tower Optimization | No Cooling Tower Optimization | Education | Cooling Central | Existing | building | 9,649 | 20% | 0.2 | 10 | \$59 | 69% | 14.2 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Education | Cooling Central | Existing | building | 9,649 | 1.4% | 0.04 | 15 | \$77 | 20% | 1.4 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Education | Cooling Central | New | building | 9,649 | 1.4% | 0.04 | 15 | \$77 | 10% | 1.4 |
| FE-Penelec | Facility Commissioning | No Facility Commissioning | Education | Cooling Central | New | building | 9,649 | 16% | 0.2 | 10 | \$5,327 | 89% | 0.1 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Education | Cooling Central | Existing | building | 9,649 | 7.0% | 0.07 | 15 | \$42,799 | 25% | 0.0 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Education | Cooling Central | New | building | 9,649 | 7.0% | 0.07 | 15 | \$42,799 | 35% | 0.0 |
| FE-Penelec | Hi Eff HVAC System Design | No HVAC Design | Education | Cooling Central | New | building | 9,649 | 14% | 0.1 | 10 | \$79,071 | 51% | 0.0 |
| FE-Penelec | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Education | Cooling Central | Early | ton | 3,892 | 24% | 0.3 | 15 | \$108,550 | 88% | 0.0 |
| FE-Penelec | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Education | Cooling Central | New | ton | 3,181 | 6.7% | 0.07 | 15 | \$12,927 | 88% | 0.0 |
| FE-Penelec | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Education | Cooling Central | ROB | ton | 3,181 | 6.7% | 0.07 | 15 | \$12,927 | 88% | 0.0 |
| FE-Penelec | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Education | Cooling Central | Early | ton | 5,815 | 23% | 0.5 | 15 | \$140,105 | 88% | 0.0 |
| FE-Penelec | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Education | Cooling Central | New | ton | 4,678 | 4.9% | 0.08 | 15 | \$9,336 | 88% | 0.0 |
| FE-Penelec | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Education | Cooling Central | ROB | ton | 4,678 | 4.9% | 0.08 | 15 | \$9,336 | 88% | 0.0 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Education | Cooling Central | Early | ton | 47,604 | 26% | 4.3 | 15 | \$105,354 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Education | Cooling Central | New | ton | 41,477 | 15% | 2.2 | 15 | \$30,530 | 88% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Education | Cooling Central | ROB | ton | 41,477 | 15% | 2.2 | 15 | \$30,530 | 88% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Education | Cooling Central | Early | ton | 71,298 | 23% | 5.7 | 15 | \$154,107 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Education | Cooling Central | New | ton | 65,496 | 16% | 3.6 | 15 | \$27,646 | 88% | 0.3 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Education | Cooling Central | ROB | ton | 65,496 | 16% | 3.6 | 15 | \$27,646 | 88% | 0.3 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Education | Cooling Central | Early | ton | 118,412 | 23% | 9.3 | 15 | \$302,924 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Education | Cooling Central | New | ton | 107,171 | 14% | 5.4 | 15 | \$115,432 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Education | Cooling Central | ROB | ton | 107,171 | 14% | 5.4 | 15 | \$115,432 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Education | Cooling Central | Early | ton | 142,094 | 23% | 11.2 | 15 | \$350,154 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Education | Cooling Central | New | ton | 128,605 | 14% | 6.5 | 15 | \$120,406 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Education | Cooling Central | ROB | ton | 128,605 | 14% | 6.5 | 15 | \$120,406 | 88% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|--|---|-----------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Education | Cooling Central | Early | ton | 31,496 | 29% | 3.2 | 15 | \$83,632 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Education | Cooling Central | New | ton | 24,457 | 8.9% | 0.8 | 15 | \$40,211 | 88% | 0.0 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Education | Cooling Central | ROB | ton | 24,457 | 8.9% | 0.8 | 15 | \$40,211 | 88% | 0.0 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Education | Cooling Central | Early | ton | 54,119 | 35% | 6.5 | 15 | \$132,173 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Education | Cooling Central | New | ton | 40,363 | 13% | 1.8 | 15 | \$39,556 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Education | Cooling Central | ROB | ton | 40,363 | 13% | 1.8 | 15 | \$39,556 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Education | Cooling Central | Early | ton | 90,355 | 39% | 12.3 | 15 | \$187,029 | 88% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Education | Cooling Central | New | ton | 64,422 | 15% | 3.3 | 15 | \$33,554 | 88% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Education | Cooling Central | ROB | ton | 64,422 | 15% | 3.3 | 15 | \$33,554 | 88% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Education | Cooling Central | Early | ton | 15,811 | 30% | 1.6 | 15 | \$32,398 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Education | Cooling Central | New | ton | 12,527 | 11% | 0.5 | 15 | \$7,188 | 88% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Education | Cooling Central | ROB | ton | 12,527 | 11% | 0.5 | 15 | \$7,188 | 88% | 0.2 |
| FE-Penelec | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Education | Cooling Central | Existing | building | 9,649 | 3.5% | 0.04 | 10 | \$1,851 | 81% | 0.1 |
| FE-Penelec | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Education | Cooling Central | New | building | 9,649 | 3.5% | 0.04 | 10 | \$1,851 | 81% | 0.1 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Education | Cooling Central | Existing | building | 9,649 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.3 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Education | Cooling Central | New | building | 9,649 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.5 |
| FE-Penelec | Re-Commissioning (Existing Construction) | No Re-Commissioning | Education | Cooling Central | Existing | building | 9,649 | 16% | 0.2 | 5 | \$9,680 | 86% | 0.0 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Education | Cooling Central | Existing | building | 9,649 | 3.6% | 0.04 | 15 | \$6,377 | 26% | 0.0 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Education | Cooling Central | New | building | 9,649 | 0.1% | 0.00 | 15 | \$4,891 | 94% | 0.0 |
| FE-Penelec | <65k BTU/hr 14 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Education | Cooling Unitary | Early | ton | 1,531 | 16% | 0.1 | 15 | \$1,545 | 29% | 0.1 |
| FE-Penelec | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Education | Cooling Unitary | New | ton | 1,387 | 7.1% | 0.04 | 15 | \$339 | 29% | 0.3 |
| FE-Penelec | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Education | Cooling Unitary | ROB | ton | 1,387 | 7.1% | 0.04 | 15 | \$339 | 29% | 0.3 |
| FE-Penelec | <65k BTU/hr 15 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Education | Cooling Unitary | Early | ton | 1,531 | 22% | 0.1 | 15 | \$1,821 | 30% | 0.2 |
| FE-Penelec | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Education | Cooling Unitary | New | ton | 1,387 | 13% | 0.08 | 15 | \$714 | 30% | 0.2 |
| FE-Penelec | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Education | Cooling Unitary | ROB | ton | 1,387 | 13% | 0.08 | 15 | \$714 | 30% | 0.2 |
| FE-Penelec | <65k BTU/hr 16 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Education | Cooling Unitary | Early | ton | 1,531 | 26% | 0.2 | 15 | \$2,098 | 31% | 0.2 |
| FE-Penelec | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Education | Cooling Unitary | New | ton | 1,387 | 19% | 0.1 | 15 | \$1,089 | 31% | 0.2 |
| FE-Penelec | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Education | Cooling Unitary | ROB | ton | 1,387 | 19% | 0.1 | 15 | \$1,089 | 31% | 0.2 |
| FE-Penelec | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Education | Cooling Unitary | Early | ton | 38,741 | 3.7% | 0.6 | 15 | \$68,066 | 56% | 0.0 |
| FE-Penelec | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Education | Cooling Unitary | New | ton | 39,238 | 4.9% | 0.8 | 15 | \$6,231 | 56% | 0.3 |
| FE-Penelec | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Education | Cooling Unitary | ROB | ton | 39,238 | 4.9% | 0.8 | 15 | \$6,231 | 56% | 0.3 |
| FE-Penelec | 135-240k min 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Education | Cooling Unitary | Early | ton | 9,532 | 18% | 0.7 | 15 | \$18,135 | 79% | 0.1 |
| FE-Penelec | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Education | Cooling Unitary | New | ton | 8,671 | 10.0% | 0.4 | 15 | \$1,948 | 79% | 0.4 |
| FE-Penelec | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Education | Cooling Unitary | ROB | ton | 8,671 | 10.0% | 0.4 | 15 | \$1,948 | 79% | 0.4 |
| FE-Penelec | 240k-760k min 11 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Education | Cooling Unitary | Early | ton | 25,488 | 9.0% | 0.9 | 15 | \$44,809 | 66% | 0.0 |
| FE-Penelec | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Education | Cooling Unitary | New | ton | 25,551 | 9.3% | 1.0 | 15 | \$4,813 | 66% | 0.5 |
| FE-Penelec | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Education | Cooling Unitary | ROB | ton | 25,551 | 9.3% | 1.0 | 15 | \$4,813 | 66% | 0.5 |
| FE-Penelec | 65k-135k BTU/hr 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Education | Cooling Unitary | Early | ton | 5,619 | 17% | 0.4 | 15 | \$10,946 | 86% | 0.1 |
| FE-Penelec | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Education | Cooling Unitary | New | ton | 5,008 | 6.7% | 0.1 | 15 | \$1,392 | 86% | 0.2 |
| FE-Penelec | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Education | Cooling Unitary | ROB | ton | 5,008 | 6.7% | 0.1 | 15 | \$1,392 | 86% | 0.2 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Education | Cooling Unitary | Existing | building | 143,231 | 7.1% | 0.07 | 6 | \$19,621 | 82% | 0.1 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Education | Cooling Unitary | New | building | 143,231 | 7.0% | 0.07 | 6 | \$19,621 | 82% | 0.1 |
| FE-Penelec | Adding window shade film | No shade film | Education | Cooling Unitary | Existing | building | 143,231 | 1.3% | 0.4 | 10 | \$1,743 | 12% | 0.5 |
| FE-Penelec | Adding window shade film | No shade film | Education | Cooling Unitary | New | building | 143,231 | 1.3% | 0.4 | 10 | \$1,743 | 13% | 0.5 |
| FE-Penelec | Adding window shade screen | No shade screen | Education | Cooling Unitary | Existing | building | 143,231 | 1.1% | 0.01 | 10 | \$674 | 12% | 0.9 |
| FE-Penelec | Adding window shade screen | No shade screen | Education | Cooling Unitary | New | building | 143,231 | 1.1% | 0.01 | 10 | \$674 | 13% | 0.9 |
| FE-Penelec | Automated control system | Manual Controls | Education | Cooling Unitary | Existing | building | 143,231 | 17% | 0.2 | 15 | \$156,804 | 51% | 0.1 |
| FE-Penelec | Automated control system | Manual Controls | Education | Cooling Unitary | New | building | 143,231 | 17% | 0.2 | 15 | \$156,804 | 94% | 0.1 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Education | Cooling Unitary | Existing | building | 143,231 | 1.6% | 0.02 | 15 | \$26,439 | 71% | 0.0 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Education | Cooling Unitary | New | building | 143,231 | 0.5% | 0.01 | 15 | \$25,131 | 94% | 0.0 |
| FE-Penelec | Commercial energy recovery ventilation systems | No Commercial Recovery System | Education | Cooling Unitary | Existing | building | 143,231 | 16% | 0.2 | 14 | \$129,431 | 71% | 0.1 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Education | Cooling Unitary | Existing | building | 143,231 | 1.4% | 0.04 | 15 | \$1,138 | 20% | 1.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|--|-----------|-----------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Education | Cooling Unitary | New | building | 143,231 | 1.4% | 0.04 | 15 | \$1,138 | 10% | 1.0 |
| FE-Penelec | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Education | Cooling Unitary | Existing | building | 78,777 | 13% | 0.1 | 1 | \$755 | 73% | 0.7 |
| FE-Penelec | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Education | Cooling Unitary | New | building | 78,777 | 13% | 0.1 | 1 | \$755 | 73% | 0.7 |
| FE-Penelec | ECM Motors for split systems | Std Shaded Pole Motor | Education | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.9 |
| FE-Penelec | ECM Motors for split systems | Std Shaded Pole Motor | Education | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.9 |
| FE-Penelec | Facility Commissioning | No Facility Commissioning | Education | Cooling Unitary | New | building | 143,231 | 16% | 0.2 | 10 | \$2,325 | 89% | 3.8 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Education | Cooling Unitary | Existing | building | 143,231 | 7.1% | 0.07 | 15 | \$635,342 | 25% | 0.0 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Education | Cooling Unitary | New | building | 143,231 | 7.1% | 0.07 | 15 | \$635,342 | 35% | 0.0 |
| FE-Penelec | Hi Eff HVAC System Design | No HVAC Design | Education | Cooling Unitary | New | building | 143,231 | 14% | 0.1 | 10 | \$9,992 | 51% | 0.8 |
| FE-Penelec | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Education | Cooling Unitary | Existing | building | 143,231 | 5.0% | 0.05 | 5 | \$225 | 59% | 6.8 |
| FE-Penelec | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Education | Cooling Unitary | Existing | building | 143,231 | 0.0% | 0.02 | 5 | \$225 | 51% | 0.1 |
| FE-Penelec | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Education | Cooling Unitary | New | building | 143,231 | 0.0% | 0.02 | 5 | \$135 | 51% | 0.2 |
| FE-Penelec | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Education | Cooling Unitary | Existing | building | 143,231 | 3.5% | 0.04 | 10 | \$1,989 | 86% | 1.0 |
| FE-Penelec | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Education | Cooling Unitary | New | building | 143,231 | 3.5% | 0.04 | 10 | \$1,989 | 86% | 1.0 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) HVAC system w/ Manual Thermostat (Code Min Eff) | Education | Cooling Unitary | Existing | building | 143,231 | 2.0% | 0.02 | 11 | \$286 | 49% | 4.2 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | Eff | Education | Cooling Unitary | New | building | 143,231 | 1.7% | 0.02 | 11 | \$146 | 49% | 6.9 |
| FE-Penelec | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Education | Cooling Unitary | Early | unit | 313 | 19% | 0.04 | 15 | \$849 | 85% | 0.1 |
| FE-Penelec | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Education | Cooling Unitary | New | unit | 316 | 20% | 0.04 | 15 | \$356 | 85% | 0.2 |
| FE-Penelec | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Education | Cooling Unitary | ROB | unit | 316 | 20% | 0.04 | 15 | \$356 | 85% | 0.2 |
| FE-Penelec | Re-Commissioning (Existing Construction) | No Re-Commissioning | Education | Cooling Unitary | Existing | building | 143,231 | 16% | 0.2 | 5 | \$9,680 | 86% | 0.5 |
| FE-Penelec | Room AC (w/ louvered sides) | Existing efficiency Room AC in Pennsylvania (2000 Federal Standards) | Education | Cooling Unitary | Early | ton | 436 | 13% | 0.02 | 9 | \$348 | 82% | 0.1 |
| FE-Penelec | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Education | Cooling Unitary | New | ton | 396 | 4.5% | 0.01 | 9 | \$17 | 82% | 0.6 |
| FE-Penelec | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Education | Cooling Unitary | ROB | ton | 396 | 4.5% | 0.01 | 9 | \$17 | 82% | 0.6 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Education | Cooling Unitary | Existing | building | 143,231 | 3.6% | 0.04 | 15 | \$6,377 | 26% | 0.4 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Education | Cooling Unitary | New | building | 143,231 | 0.1% | 0.00 | 15 | \$4,891 | 94% | 0.0 |
| FE-Penelec | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Education | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 1.1 |
| FE-Penelec | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Education | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.4 |
| FE-Penelec | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Education | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.4 |
| FE-Penelec | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Education | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 0% | 0.2 |
| FE-Penelec | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Education | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-Penelec | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Education | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-Penelec | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Education | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 75% | 0.3 |
| FE-Penelec | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Education | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 75% | 0.2 |
| FE-Penelec | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Education | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.8 |
| FE-Penelec | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Education | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.1 |
| FE-Penelec | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Education | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.8 |
| FE-Penelec | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Education | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.1 |
| FE-Penelec | Photocell Controls (Outdoor) | Lighting w/ No Controls | Education | Ext. Lighting | Existing | building | 1,408 | 28% | 0.3 | 8 | \$15,932 | 88% | 0.0 |
| FE-Penelec | Photocell Controls (Outdoor) | Lighting w/ No Controls | Education | Ext. Lighting | New | building | 1,408 | 28% | 0.3 | 8 | \$15,932 | 0% | 0.0 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Education | Heat Pump | Existing | building | 14,880 | 6.9% | 0.07 | 6 | \$19,621 | 82% | 0.0 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Education | Heat Pump | New | building | 14,880 | 6.9% | 0.07 | 6 | \$19,621 | 82% | 0.0 |
| FE-Penelec | Adding window shade film | No shade film | Education | Heat Pump | Existing | building | 14,880 | 3.9% | 0.4 | 10 | \$181 | 12% | 2.5 |
| FE-Penelec | Adding window shade film | No shade film | Education | Heat Pump | New | building | 14,880 | 3.9% | 0.4 | 10 | \$181 | 12% | 2.5 |
| FE-Penelec | Adding window shade screen | No shade screen | Education | Heat Pump | Existing | building | 14,880 | 0.3% | 0.01 | 10 | \$23 | 12% | 1.0 |
| FE-Penelec | Adding window shade screen | No shade screen | Education | Heat Pump | New | building | 14,880 | 0.3% | 0.01 | 10 | \$23 | 12% | 1.0 |
| FE-Penelec | Automated control system | Manual Controls | Education | Heat Pump | Existing | building | 14,880 | 17% | 0.2 | 15 | \$16,290 | 51% | 0.1 |
| FE-Penelec | Automated control system | Manual Controls | Education | Heat Pump | New | building | 14,880 | 17% | 0.2 | 15 | \$16,290 | 94% | 0.1 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Education | Heat Pump | Existing | building | 14,880 | 1.6% | 0.02 | 15 | \$26,439 | 71% | 0.0 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Education | Heat Pump | New | building | 14,880 | 0.5% | 0.01 | 15 | \$25,131 | 94% | 0.0 |
| FE-Penelec | Commercial energy recovery ventilation systems | No Commercial Recovery System | Education | Heat Pump | Existing | building | 14,880 | 16% | 0.2 | 14 | \$625,570 | 71% | 0.0 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Education | Heat Pump | Existing | building | 14,880 | 4.0% | 0.04 | 15 | \$118 | 12% | 2.8 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Education | Heat Pump | New | building | 14,880 | 4.0% | 0.04 | 15 | \$118 | 6% | 2.8 |
| FE-Penelec | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Education | Heat Pump | Early | heat pump | 1,397 | 12% | 0.01 | 15 | \$4,070 | 83% | 0.0 |
| FE-Penelec | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Education | Heat Pump | New | heat pump | 1,338 | 7.9% | 0.01 | 15 | \$1,097 | 83% | 0.1 |
| FE-Penelec | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Education | Heat Pump | ROB | heat pump | 1,338 | 7.9% | 0.01 | 15 | \$1,097 | 83% | 0.1 |
| FE-Penelec | Facility Commissioning | No Facility Commissioning | Education | Heat Pump | New | building | 14,880 | 16% | 0.2 | 10 | \$5,327 | 89% | 0.2 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Education | Heat Pump | Existing | building | 14,880 | 7.0% | 0.07 | 15 | \$66,002 | 25% | 0.0 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Education | Heat Pump | New | building | 14,880 | 7.0% | 0.07 | 15 | \$66,002 | 35% | 0.0 |
| FE-Penelec | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Education | Heat Pump | Early | heat pump | 15,676 | 12% | 0.2 | 15 | \$91,117 | 19% | 0.0 |
| FE-Penelec | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Education | Heat Pump | New | heat pump | 15,361 | 9.8% | 0.1 | 15 | \$33,927 | 19% | 0.0 |
| FE-Penelec | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Education | Heat Pump | ROB | heat pump | 15,361 | 9.8% | 0.1 | 15 | \$33,927 | 19% | 0.0 |
| FE-Penelec | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Education | Heat Pump | Early | heat pump | 15,676 | 12% | 0.2 | 15 | \$58,356 | 19% | 0.0 |
| FE-Penelec | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Education | Heat Pump | New | heat pump | 15,361 | 9.8% | 0.1 | 15 | \$1,167 | 19% | 0.7 |
| FE-Penelec | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Education | Heat Pump | ROB | heat pump | 15,361 | 9.8% | 0.1 | 15 | \$1,167 | 19% | 0.7 |
| FE-Penelec | Hi Eff HVAC System Design | No HVAC Design | Education | Heat Pump | New | building | 14,880 | 14% | 0.1 | 10 | \$79,071 | 51% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|--|--|-----------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Education | Heat Pump | Early | heat pump | 4,196 | 15% | 0.05 | 12 | \$4,298 | 81% | 0.1 |
| FE-Penelec | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Education | Heat Pump | New | heat pump | 4,080 | 12% | 0.04 | 12 | \$852 | 81% | 0.3 |
| FE-Penelec | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Education | Heat Pump | ROB | heat pump | 4,080 | 12% | 0.04 | 12 | \$852 | 81% | 0.3 |
| FE-Penelec | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Education | Heat Pump | Existing | building | 14,880 | 5.0% | 0.06 | 5 | \$90 | 51% | 1.9 |
| FE-Penelec | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Education | Heat Pump | New | building | 14,880 | 5.0% | 0.06 | 5 | \$90 | 51% | 1.9 |
| FE-Penelec | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Education | Heat Pump | Existing | building | 14,880 | 3.5% | 0.04 | 10 | \$1,771 | 81% | 0.1 |
| FE-Penelec | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Education | Heat Pump | New | building | 14,880 | 3.5% | 0.04 | 10 | \$1,771 | 81% | 0.1 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Education | Heat Pump | Existing | building | 14,880 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.5 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Education | Heat Pump | New | building | 14,880 | 2.1% | 0.02 | 11 | \$146 | 49% | 0.9 |
| FE-Penelec | Re-Commissioning (Existing Construction) | No Re-Commissioning | Education | Heat Pump | Existing | building | 14,880 | 16% | 0.2 | 5 | \$9,680 | 86% | 0.1 |
| FE-Penelec | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Education | Heat Pump | New | measure | 1,891,834 | 2.0% | 4.3 | 13 | \$238,160 | 43% | 0.1 |
| FE-Penelec | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Education | Heat Pump | ROB | measure | 1,891,834 | 2.0% | 4.3 | 13 | \$238,160 | 43% | 0.1 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Education | Heat Pump | Existing | building | 14,880 | 3.6% | 0.04 | 15 | \$6,377 | 26% | 0.0 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Education | Heat Pump | New | building | 14,880 | 0.1% | 0.00 | 15 | \$4,891 | 94% | 0.0 |
| FE-Penelec | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Education | Heat Pump | Early | heat pump | 7,004 | 40% | 0.2 | 15 | \$35,347 | 28% | 0.0 |
| FE-Penelec | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Education | Heat Pump | New | heat pump | 6,825 | 39% | 0.2 | 15 | \$15,739 | 28% | 0.1 |
| FE-Penelec | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Education | Heat Pump | ROB | heat pump | 6,825 | 39% | 0.2 | 15 | \$15,739 | 28% | 0.1 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Education | High Bay Lighting | Early | Fixture | 499 | 9.6% | 0.01 | 13 | \$850 | 39% | 0.0 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Education | High Bay Lighting | Early | Fixture | 499 | 9.5% | 0.01 | 13 | \$850 | 28% | 0.0 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Education | High Bay Lighting | Early | Fixture | 770 | 41% | 0.07 | 13 | \$850 | 36% | 0.2 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Education | High Bay Lighting | New | Fixture | 379 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Education | High Bay Lighting | New | Fixture | 353 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Education | High Bay Lighting | New | Fixture | 585 | 41% | 0.05 | 13 | \$397 | 36% | 0.4 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Education | High Bay Lighting | ROB | Fixture | 499 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Education | High Bay Lighting | ROB | Fixture | 465 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Education | High Bay Lighting | ROB | Fixture | 770 | 41% | 0.07 | 13 | \$397 | 36% | 0.5 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Education | High Bay Lighting | Early | Fixture | 969 | 19% | 0.04 | 13 | \$851 | 38% | 0.1 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Education | High Bay Lighting | Early | Fixture | 981 | 20% | 0.04 | 13 | \$851 | 38% | 0.2 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | Early | Fixture | 2,855 | 73% | 0.5 | 13 | \$851 | 38% | 1.6 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Education | High Bay Lighting | New | Fixture | 737 | 19% | 0.03 | 13 | \$372 | 38% | 0.2 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | New | Fixture | 2,170 | 73% | 0.4 | 13 | \$383 | 38% | 2.7 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Education | High Bay Lighting | ROB | Fixture | 969 | 19% | 0.04 | 13 | \$372 | 38% | 0.3 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | ROB | Fixture | 2,855 | 73% | 0.5 | 13 | \$383 | 38% | 3.5 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Education | High Bay Lighting | Early | Fixture | 969 | 25% | 0.05 | 13 | \$554 | 29% | 0.3 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Education | High Bay Lighting | Early | Fixture | 951 | 23% | 0.05 | 13 | \$554 | 28% | 0.3 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | Early | Fixture | 2,855 | 74% | 0.5 | 13 | \$554 | 36% | 2.5 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Education | High Bay Lighting | New | Fixture | 737 | 25% | 0.04 | 13 | \$75 | 29% | 1.6 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | New | Fixture | 2,170 | 74% | 0.4 | 13 | \$86 | 36% | 12.3 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Education | High Bay Lighting | ROB | Fixture | 969 | 25% | 0.05 | 13 | \$75 | 29% | 2.1 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | ROB | Fixture | 2,855 | 74% | 0.5 | 13 | \$86 | 36% | 16.2 |
| FE-Penelec | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Education | High Bay Lighting | Early | Fixture | 253 | 0.2% | 0.00 | 13 | \$835 | 38% | 0.0 |
| FE-Penelec | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Education | High Bay Lighting | Early | Fixture | 544 | 54% | 0.07 | 13 | \$835 | 38% | 0.2 |
| FE-Penelec | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Education | High Bay Lighting | New | Fixture | 414 | 54% | 0.05 | 13 | \$382 | 38% | 0.4 |
| FE-Penelec | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Education | High Bay Lighting | ROB | Fixture | 544 | 54% | 0.07 | 13 | \$382 | 38% | 0.5 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Education | High Bay Lighting | Early | Fixture | 1,235 | 18% | 0.05 | 13 | \$487 | 25% | 0.3 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Education | High Bay Lighting | Early | Fixture | 1,291 | 22% | 0.06 | 13 | \$487 | 28% | 0.4 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | Early | Fixture | 2,855 | 65% | 0.4 | 13 | \$487 | 36% | 2.5 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Education | High Bay Lighting | New | Fixture | 938 | 18% | 0.04 | 13 | \$16 | 25% | 6.9 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | New | Fixture | 2,170 | 65% | 0.3 | 13 | \$18 | 36% | 49.9 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Education | High Bay Lighting | ROB | Fixture | 1,235 | 18% | 0.05 | 13 | \$16 | 25% | 9.1 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | ROB | Fixture | 2,855 | 65% | 0.4 | 13 | \$18 | 36% | 65.7 |
| FE-Penelec | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Education | High Bay Lighting | Early | Fixture | 1,235 | 1.5% | 0.00 | 13 | \$557 | 19% | 0.0 |
| FE-Penelec | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Education | High Bay Lighting | Early | Fixture | 1,271 | 4.3% | 0.01 | 13 | \$557 | 19% | 0.1 |
| FE-Penelec | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | Early | Fixture | 2,855 | 57% | 0.4 | 13 | \$557 | 19% | 1.9 |
| FE-Penelec | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Education | High Bay Lighting | New | Fixture | 938 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| FE-Penelec | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | New | Fixture | 2,170 | 57% | 0.3 | 13 | \$88 | 19% | 9.2 |
| FE-Penelec | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Education | High Bay Lighting | ROB | Fixture | 1,235 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| FE-Penelec | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | ROB | Fixture | 2,855 | 57% | 0.4 | 13 | \$88 | 19% | 12.2 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Education | High Bay Lighting | Early | Fixture | 524 | 29% | 0.02 | 13 | \$492 | 71% | 0.2 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Education | High Bay Lighting | Early | Fixture | 438 | 15% | 0.01 | 13 | \$492 | 95% | 0.1 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Education | High Bay Lighting | Early | Fixture | 651 | 43% | 0.04 | 13 | \$492 | 95% | 0.3 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Education | High Bay Lighting | Early | Fixture | 604 | 38% | 0.04 | 13 | \$492 | 95% | 0.3 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Education | High Bay Lighting | New | Fixture | 333 | 15% | 0.01 | 13 | \$25 | 95% | 1.2 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Education | High Bay Lighting | New | Fixture | 495 | 43% | 0.03 | 13 | \$51 | 95% | 2.5 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Education | High Bay Lighting | ROB | Fixture | 438 | 15% | 0.01 | 13 | \$25 | 95% | 1.6 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Education | High Bay Lighting | ROB | Fixture | 651 | 43% | 0.04 | 13 | \$51 | 95% | 3.2 |
| FE-Penelec | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Education | High Bay Lighting | Early | lamp | 66 | 16% | 0.00 | 15 | \$7.7 | 99% | 1.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|--|-----------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Education | High Bay Lighting | New | lamp | 39 | 13% | 0.00 | 15 | \$1.6 | 91% | 2.4 |
| FE-Penelec | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Education | High Bay Lighting | ROB | lamp | 64 | 13% | 0.00 | 15 | \$1.6 | 91% | 3.8 |
| FE-Penelec | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Education | High Bay Lighting | Early | Fixture | 2,921 | 23% | 0.2 | 13 | \$613 | 5% | 0.7 |
| FE-Penelec | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Education | High Bay Lighting | Early | Fixture | 2,295 | 1.6% | 0.01 | 13 | \$613 | 28% | 0.0 |
| FE-Penelec | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Education | High Bay Lighting | Early | Fixture | 5,709 | 60% | 0.8 | 13 | \$613 | 18% | 3.7 |
| FE-Penelec | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Education | High Bay Lighting | New | Fixture | 2,220 | 23% | 0.1 | 13 | \$96 | 5% | 3.4 |
| FE-Penelec | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Education | High Bay Lighting | ROB | Fixture | 2,921 | 23% | 0.2 | 13 | \$96 | 5% | 4.5 |
| FE-Penelec | Auto Off Time Switch | Lighting w/ No Controls | Education | High Bay Lighting | Existing | building | 6,511 | 24% | 0.2 | 8 | \$3,237 | 13% | 0.2 |
| FE-Penelec | Auto Off Time Switch | Lighting w/ No Controls | Education | High Bay Lighting | New | building | 6,511 | 6.9% | 0.07 | 8 | \$3,237 | 0% | 0.1 |
| FE-Penelec | Central Lighting Control System | Lighting w/ No Controls | Education | High Bay Lighting | Existing | building | 6,511 | 38% | 0.4 | 8 | \$3,237 | 13% | 0.3 |
| FE-Penelec | Central Lighting Control System | Lighting w/ No Controls | Education | High Bay Lighting | New | building | 6,511 | 14% | 0.1 | 8 | \$3,237 | 13% | 0.1 |
| FE-Penelec | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Education | High Bay Lighting | New | building | 6,511 | 10% | 0.1 | 15 | \$35,171 | 32% | 0.0 |
| FE-Penelec | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Education | High Bay Lighting | New | building | 6,511 | 15% | 0.2 | 15 | \$87,927 | 32% | 0.0 |
| FE-Penelec | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Education | High Bay Lighting | New | building | 6,511 | 30% | 0.3 | 15 | \$126,028 | 32% | 0.0 |
| FE-Penelec | Indoor Daylight Sensors | Lighting w/ No Controls | Education | High Bay Lighting | Existing | building | 6,511 | 28% | 0.3 | 8 | \$15,932 | 13% | 0.0 |
| FE-Penelec | Indoor Daylight Sensors | Lighting w/ No Controls | Education | High Bay Lighting | New | building | 6,511 | 4.0% | 0.04 | 8 | \$15,932 | 0% | 0.0 |
| FE-Penelec | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Education | High Bay Lighting | Early | Fixture | 2,921 | 92% | 0.6 | 13 | \$1,916 | 95% | 0.9 |
| FE-Penelec | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | Early | Fixture | 5,709 | 96% | 1.2 | 13 | \$1,916 | 95% | 1.9 |
| FE-Penelec | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Education | High Bay Lighting | New | Fixture | 2,220 | 92% | 0.5 | 13 | \$1,468 | 95% | 0.9 |
| FE-Penelec | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | New | Fixture | 4,339 | 96% | 0.9 | 13 | \$1,149 | 95% | 2.4 |
| FE-Penelec | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Education | High Bay Lighting | ROB | Fixture | 2,921 | 92% | 0.6 | 13 | \$1,468 | 95% | 1.2 |
| FE-Penelec | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | ROB | Fixture | 5,709 | 96% | 1.2 | 13 | \$1,149 | 95% | 3.1 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Education | High Bay Lighting | Early | Fixture | 969 | 67% | 0.1 | 13 | \$960 | 95% | 0.4 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Education | High Bay Lighting | Early | Fixture | 2,855 | 89% | 0.6 | 13 | \$960 | 95% | 1.7 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Education | High Bay Lighting | Early | Fixture | 783 | 59% | 0.1 | 13 | \$960 | 95% | 0.3 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Education | High Bay Lighting | New | Fixture | 737 | 67% | 0.1 | 13 | \$480 | 95% | 0.7 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Education | High Bay Lighting | New | Fixture | 2,170 | 89% | 0.4 | 13 | \$491 | 95% | 2.6 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Education | High Bay Lighting | New | Fixture | 595 | 59% | 0.08 | 13 | \$406 | 95% | 0.6 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Education | High Bay Lighting | ROB | Fixture | 969 | 67% | 0.1 | 13 | \$480 | 95% | 0.9 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Education | High Bay Lighting | ROB | Fixture | 2,855 | 89% | 0.6 | 13 | \$491 | 95% | 3.4 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Education | High Bay Lighting | ROB | Fixture | 783 | 59% | 0.1 | 13 | \$406 | 95% | 0.7 |
| FE-Penelec | Occupancy Sensor | Lighting w/ No Controls | Education | High Bay Lighting | Existing | building | 6,511 | 24% | 0.2 | 8 | \$4,877 | 11% | 0.1 |
| FE-Penelec | Occupancy Sensor | Lighting w/ No Controls | Education | High Bay Lighting | New | building | 6,511 | 6.9% | 0.07 | 8 | \$4,877 | 0% | 0.0 |
| FE-Penelec | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Education | High Bay Lighting | Existing | building | 6,511 | 28% | 0.3 | 8 | \$15,932 | 11% | 0.0 |
| FE-Penelec | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Education | High Bay Lighting | New | building | 6,511 | 4.0% | 0.04 | 8 | \$15,932 | 0% | 0.0 |
| FE-Penelec | Time Clock Control | Lighting w/ No Controls | Education | High Bay Lighting | Existing | building | 6,511 | 28% | 0.3 | 8 | \$3,237 | 13% | 0.2 |
| FE-Penelec | Time Clock Control | Lighting w/ No Controls | Education | High Bay Lighting | New | building | 6,511 | 4.0% | 0.04 | 8 | \$3,237 | 0% | 0.0 |
| FE-Penelec | Auto Off Time Switch | Lighting w/ No Controls | Education | Lin. Fluor. Lighting | Existing | building | 67,798 | 24% | 0.2 | 8 | \$3,237 | 13% | 1.6 |
| FE-Penelec | Auto Off Time Switch | Lighting w/ No Controls | Education | Lin. Fluor. Lighting | New | building | 67,798 | 7.0% | 0.07 | 8 | \$3,237 | 0% | 0.5 |
| FE-Penelec | Central Lighting Control System | Lighting w/ No Controls | Education | Lin. Fluor. Lighting | Existing | building | 67,798 | 38% | 0.4 | 8 | \$3,237 | 12% | 2.5 |
| FE-Penelec | Central Lighting Control System | Lighting w/ No Controls | Education | Lin. Fluor. Lighting | New | building | 67,798 | 14% | 0.1 | 8 | \$3,237 | 12% | 0.9 |
| FE-Penelec | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Education | Lin. Fluor. Lighting | New | building | 67,798 | 10% | 0.1 | 15 | \$35,171 | 32% | 0.1 |
| FE-Penelec | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Education | Lin. Fluor. Lighting | New | building | 67,798 | 15% | 0.2 | 15 | \$87,927 | 32% | 0.1 |
| FE-Penelec | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Education | Lin. Fluor. Lighting | New | building | 67,798 | 30% | 0.3 | 15 | \$126,028 | 32% | 0.1 |
| FE-Penelec | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Education | Lin. Fluor. Lighting | Early | Lamp | 133 | 38% | 0.01 | 15 | \$7.3 | 94% | 5.1 |
| FE-Penelec | Indoor Daylight Sensors | Lighting w/ No Controls | Education | Lin. Fluor. Lighting | Existing | building | 67,798 | 28% | 0.3 | 8 | \$15,932 | 13% | 0.4 |
| FE-Penelec | Indoor Daylight Sensors | Lighting w/ No Controls | Education | Lin. Fluor. Lighting | New | building | 67,798 | 4.1% | 0.04 | 8 | \$15,932 | 0% | 0.1 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Education | Lin. Fluor. Lighting | Early | Lamp | 63 | 19% | 0.00 | 15 | \$35 | 94% | 0.2 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 40W T12 Lamp, Magnetic Ballast | Education | Lin. Fluor. Lighting | Early | Lamp | 137 | 63% | 0.02 | 15 | \$35 | 94% | 1.8 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Education | Lin. Fluor. Lighting | Early | Lamp | 77 | 34% | 0.01 | 15 | \$35 | 94% | 0.5 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Education | Lin. Fluor. Lighting | Early | Lamp | 75 | 32% | 0.00 | 15 | \$35 | 94% | 0.5 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Education | Lin. Fluor. Lighting | New | Lamp | 48 | 19% | 0.00 | 15 | \$28 | 94% | 0.2 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Education | Lin. Fluor. Lighting | New | Lamp | 57 | 32% | 0.00 | 15 | \$29 | 94% | 0.5 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Education | Lin. Fluor. Lighting | New | Lamp | 59 | 34% | 0.00 | 15 | \$22 | 94% | 0.7 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Education | Lin. Fluor. Lighting | New | Lamp | 57 | 32% | 0.00 | 15 | \$29 | 94% | 0.5 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Education | Lin. Fluor. Lighting | ROB | Lamp | 63 | 19% | 0.00 | 15 | \$28 | 94% | 0.3 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Education | Lin. Fluor. Lighting | ROB | Lamp | 75 | 32% | 0.00 | 15 | \$29 | 94% | 0.6 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Education | Lin. Fluor. Lighting | ROB | Lamp | 77 | 34% | 0.01 | 15 | \$22 | 94% | 0.9 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Education | Lin. Fluor. Lighting | ROB | Lamp | 75 | 32% | 0.00 | 15 | \$29 | 94% | 0.6 |
| FE-Penelec | Occupancy Sensor | Lighting w/ No Controls | Education | Lin. Fluor. Lighting | Existing | building | 67,798 | 24% | 0.2 | 8 | \$4,877 | 12% | 1.1 |
| FE-Penelec | Occupancy Sensor | Lighting w/ No Controls | Education | Lin. Fluor. Lighting | New | building | 67,798 | 7.0% | 0.07 | 8 | \$4,877 | 0% | 0.3 |
| FE-Penelec | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Education | Lin. Fluor. Lighting | Existing | building | 67,798 | 28% | 0.3 | 8 | \$15,932 | 11% | 0.4 |
| FE-Penelec | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Education | Lin. Fluor. Lighting | New | building | 67,798 | 4.1% | 0.04 | 8 | \$15,932 | 0% | 0.1 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 40W T12 w/ Magnetic Ballast | Education | Lin. Fluor. Lighting | Early | Lamp | 133 | 54% | 0.02 | 15 | \$9.1 | 94% | 5.9 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Education | Lin. Fluor. Lighting | Early | Lamp | 85 | 28% | 0.01 | 15 | \$9.1 | 24% | 2.0 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Education | Lin. Fluor. Lighting | Early | Lamp | 83 | 26% | 0.00 | 15 | \$9.1 | 94% | 1.7 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Education | Lin. Fluor. Lighting | New | Lamp | 63 | 26% | 0.00 | 15 | \$2.5 | 94% | 4.8 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|--|-----------|---------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Education | Motors | New | motor | 37,921 | 72% | 4.0 | 15 | \$731 | 86% | 24.8 |
| FE-Penelec | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Education | Motors | ROB | motor | 37,921 | 72% | 4.0 | 15 | \$731 | 86% | 24.8 |
| FE-Penelec | Variable Speed Drive Control, 40HP | Existing Motors w/out VSD Drive | Education | Motors | Early | motor | 101,123 | 71% | 10.5 | 15 | \$4,666 | 86% | 10.2 |
| FE-Penelec | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Education | Motors | New | motor | 99,941 | 72% | 10.5 | 15 | \$4,666 | 86% | 10.2 |
| FE-Penelec | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Education | Motors | ROB | motor | 99,941 | 72% | 10.5 | 15 | \$4,666 | 86% | 10.2 |
| FE-Penelec | Variable Speed Drive Control, 5HP | Existing Motors w/out VFD Drive | Education | Motors | Early | motor | 13,435 | 70% | 1.4 | 15 | \$2,243 | 86% | 2.8 |
| FE-Penelec | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Education | Motors | New | motor | 13,135 | 72% | 1.4 | 15 | \$2,243 | 86% | 2.8 |
| FE-Penelec | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Education | Motors | ROB | motor | 13,135 | 72% | 1.4 | 15 | \$2,243 | 86% | 2.8 |
| FE-Penelec | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Education | Motors | Early | motor | 68,319 | 1.6% | 0.1 | 15 | \$268 | 40% | 2.6 |
| FE-Penelec | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Education | Motors | New | motor | 68,319 | 1.6% | 0.1 | 15 | \$268 | 40% | 2.6 |
| FE-Penelec | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Education | Motors | ROB | motor | 68,319 | 1.6% | 0.1 | 15 | \$268 | 40% | 2.6 |
| FE-Penelec | VFD on Chilled Water Pump | Motor w/out VFD Drive | Education | Motors | Early | motor | 30,306 | 54% | 2.7 | 15 | \$2,903 | 86% | 3.7 |
| FE-Penelec | VFD on Chilled Water Pump | Motor w/out VFD Drive | Education | Motors | New | motor | 29,739 | 55% | 2.7 | 15 | \$2,843 | 86% | 3.8 |
| FE-Penelec | VFD on Chilled Water Pump | Motor w/out VFD Drive | Education | Motors | ROB | motor | 29,739 | 55% | 2.7 | 15 | \$2,843 | 86% | 3.8 |
| FE-Penelec | VFD on Condenser Water Pump | Motor w/out VFD Drive | Education | Motors | Early | motor | 26,924 | 32% | 3.2 | 15 | \$2,903 | 86% | 2.5 |
| FE-Penelec | VFD on Condenser Water Pump | Motor w/out VFD Drive | Education | Motors | New | motor | 26,420 | 33% | 3.1 | 15 | \$2,843 | 86% | 2.6 |
| FE-Penelec | VFD on Condenser Water Pump | Motor w/out VFD Drive | Education | Motors | ROB | motor | 26,420 | 33% | 3.1 | 15 | \$2,843 | 86% | 2.6 |
| FE-Penelec | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Education | Motors | Early | motor | 41,052 | 56% | 0.00 | 15 | \$2,903 | 86% | 4.0 |
| FE-Penelec | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Education | Motors | New | motor | 40,284 | 57% | 0.00 | 15 | \$2,843 | 86% | 4.1 |
| FE-Penelec | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Education | Motors | ROB | motor | 40,284 | 57% | 0.00 | 15 | \$2,843 | 86% | 4.1 |
| FE-Penelec | VFD on HVAC Fan | Motor w/out VFD | Education | Motors | Early | motor | 30,355 | 70% | 3.4 | 15 | \$2,903 | 86% | 5.0 |
| FE-Penelec | VFD on HVAC Fan | Motor w/out VFD | Education | Motors | New | motor | 29,787 | 72% | 3.3 | 15 | \$2,843 | 86% | 5.1 |
| FE-Penelec | VFD on HVAC Fan | Motor w/out VFD | Education | Motors | ROB | motor | 29,787 | 72% | 3.3 | 15 | \$2,843 | 86% | 5.1 |
| FE-Penelec | Elevators | Std. Eff Elevator | Education | Other | ROB | measure | 89,016 | 1.8% | 0.1 | 15 | \$379 | 81% | 2.5 |
| FE-Penelec | Variable Speed Drives on Process Equipment | Constant speed control | Education | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 10.6 |
| FE-Penelec | Variable Speed Drives on Process Equipment | Constant speed control | Education | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 10.6 |
| FE-Penelec | Auto Off Time Switch | Lighting w/ No Controls | Education | Other Int. Lighting | Existing | building | 27,456 | 24% | 0.2 | 8 | \$3,237 | 13% | 0.7 |
| FE-Penelec | Auto Off Time Switch | Lighting w/ No Controls | Education | Other Int. Lighting | New | building | 27,456 | 7.0% | 0.07 | 8 | \$3,237 | 0% | 0.2 |
| FE-Penelec | Central Lighting Control System | Lighting w/ No Controls | Education | Other Int. Lighting | Existing | building | 27,456 | 38% | 0.4 | 8 | \$3,237 | 13% | 1.1 |
| FE-Penelec | Central Lighting Control System | Lighting w/ No Controls | Education | Other Int. Lighting | New | building | 27,456 | 14% | 0.1 | 8 | \$3,237 | 13% | 0.4 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 40W Incandescent Bulb | Education | Other Int. Lighting | Early | lamp | 145 | 87% | 0.03 | 11 | \$30 | 14% | 2.3 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Education | Other Int. Lighting | Early | lamp | 104 | 81% | 0.02 | 11 | \$30 | 11% | 1.6 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Education | Other Int. Lighting | New | lamp | 79 | 81% | 0.01 | 11 | \$21 | 14% | 1.7 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Education | Other Int. Lighting | New | lamp | 79 | 81% | 0.01 | 11 | \$23 | 14% | 1.6 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Education | Other Int. Lighting | New | lamp | 79 | 81% | 0.01 | 11 | \$22 | 11% | 1.6 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Education | Other Int. Lighting | ROB | lamp | 104 | 81% | 0.02 | 11 | \$21 | 14% | 2.2 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Education | Other Int. Lighting | ROB | lamp | 104 | 81% | 0.02 | 11 | \$23 | 14% | 2.0 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Education | Other Int. Lighting | ROB | lamp | 104 | 81% | 0.02 | 11 | \$22 | 11% | 2.1 |
| FE-Penelec | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Education | Other Int. Lighting | Early | lamp | 145 | 75% | 0.02 | 4 | \$73 | 39% | 0.4 |
| FE-Penelec | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Education | Other Int. Lighting | New | fixture | 157 | 65% | 0.02 | 13 | \$29 | 46% | 2.3 |
| FE-Penelec | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Education | Other Int. Lighting | New | lamp | 79 | 65% | 0.01 | 4 | \$29 | 46% | 0.4 |
| FE-Penelec | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Education | Other Int. Lighting | ROB | fixture | 207 | 65% | 0.03 | 13 | \$29 | 39% | 3.0 |
| FE-Penelec | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Education | Other Int. Lighting | ROB | lamp | 104 | 65% | 0.01 | 4 | \$29 | 39% | 0.6 |
| FE-Penelec | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Education | Other Int. Lighting | Early | lamp | 145 | 75% | 0.02 | 4 | \$3.2 | 24% | 8.1 |
| FE-Penelec | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Education | Other Int. Lighting | New | lamp | 79 | 65% | 0.01 | 4 | \$1.8 | 24% | 6.9 |
| FE-Penelec | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Education | Other Int. Lighting | ROB | lamp | 104 | 65% | 0.01 | 4 | \$1.8 | 24% | 9.1 |
| FE-Penelec | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Education | Other Int. Lighting | ROB | lamp | 104 | 65% | 0.01 | 4 | \$1.8 | 24% | 9.1 |
| FE-Penelec | Exit Sign Retrofit: CFL replacing Incandescent | One 23W Single Sided Incandescent Exit Sign | Education | Other Int. Lighting | Early | exit sign | 139 | 42% | 0.01 | 15 | \$48 | 22% | 0.8 |
| FE-Penelec | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Education | Other Int. Lighting | New | building | 27,456 | 10% | 0.1 | 15 | \$35,171 | 32% | 0.0 |
| FE-Penelec | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Education | Other Int. Lighting | New | building | 27,456 | 15% | 0.2 | 15 | \$87,927 | 32% | 0.0 |
| FE-Penelec | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Education | Other Int. Lighting | New | building | 27,456 | 30% | 0.3 | 15 | \$126,028 | 32% | 0.0 |
| FE-Penelec | Indoor Daylight Sensors | Lighting w/ No Controls | Education | Other Int. Lighting | Existing | building | 27,456 | 28% | 0.3 | 8 | \$15,932 | 13% | 0.2 |
| FE-Penelec | Indoor Daylight Sensors | Lighting w/ No Controls | Education | Other Int. Lighting | New | building | 27,456 | 4.1% | 0.04 | 8 | \$15,932 | 0% | 0.0 |
| FE-Penelec | LED Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Education | Other Int. Lighting | Early | sign | 153 | 87% | 0.02 | 15 | \$48 | 16% | 1.8 |
| FE-Penelec | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Education | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 2.0 |
| FE-Penelec | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Education | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 2.0 |
| FE-Penelec | LED Task Lighting/Screw-In | 1 15W CFL bulb | Education | Other Int. Lighting | Early | lamp | 45 | 33% | 0.00 | 8 | \$9.6 | 24% | 0.6 |
| FE-Penelec | LED Task Lighting/Screw-In | 1 60W Incandescent Bulb | Education | Other Int. Lighting | Early | lamp | 179 | 83% | 0.02 | 8 | \$9.6 | 24% | 6.2 |
| FE-Penelec | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Education | Other Int. Lighting | New | lamp | 98 | 77% | 0.01 | 8 | \$7.9 | 24% | 3.7 |
| FE-Penelec | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Education | Other Int. Lighting | New | lamp | 98 | 77% | 0.01 | 8 | \$7.9 | 24% | 3.7 |
| FE-Penelec | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Education | Other Int. Lighting | ROB | lamp | 129 | 77% | 0.01 | 8 | \$7.9 | 24% | 4.9 |
| FE-Penelec | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Education | Other Int. Lighting | ROB | lamp | 129 | 77% | 0.01 | 8 | \$7.9 | 24% | 4.9 |
| FE-Penelec | Occupancy Sensor | Lighting w/ No Controls | Education | Other Int. Lighting | Existing | building | 27,456 | 24% | 0.2 | 8 | \$4,877 | 11% | 0.4 |
| FE-Penelec | Occupancy Sensor | Lighting w/ No Controls | Education | Other Int. Lighting | New | building | 27,456 | 7.0% | 0.07 | 8 | \$4,877 | 0% | 0.1 |
| FE-Penelec | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Education | Other Int. Lighting | Existing | building | 27,456 | 28% | 0.3 | 8 | \$15,932 | 11% | 0.2 |
| FE-Penelec | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Education | Other Int. Lighting | New | building | 27,456 | 4.1% | 0.04 | 8 | \$15,932 | 0% | 0.0 |
| FE-Penelec | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Education | Other Int. Lighting | Early | exit sign | 139 | 100% | 0.02 | 15 | \$173 | 26% | 0.5 |
| FE-Penelec | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Education | Other Int. Lighting | New | exit sign | 80 | 100% | 0.01 | 15 | \$148 | 31% | 0.3 |
| FE-Penelec | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Education | Other Int. Lighting | ROB | exit sign | 80 | 100% | 0.01 | 15 | \$148 | 26% | 0.3 |
| FE-Penelec | Time Clock Control | Lighting w/ No Controls | Education | Other Int. Lighting | Existing | building | 27,456 | 28% | 0.3 | 8 | \$3,237 | 13% | 0.8 |
| FE-Penelec | Time Clock Control | Lighting w/ No Controls | Education | Other Int. Lighting | New | building | 27,456 | 4.1% | 0.04 | 8 | \$3,237 | 0% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|--|---|-----------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Education | Plug Load | Existing | building | 5,262 | 46% | 0.5 | 5 | \$189 | 4% | 3.5 |
| FE-Penelec | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Education | Plug Load | New | building | 5,262 | 46% | 0.5 | 5 | \$189 | 4% | 3.5 |
| FE-Penelec | Data Center - Server/Storage Consolidation | No Consolidation | Education | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penelec | Data Center - Server/Storage Consolidation | No Consolidation | Education | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penelec | Data Center - Server/Storage Virtualization | No Virtualization | Education | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penelec | Data Center - Server/Storage Virtualization | No Virtualization | Education | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penelec | Energy Star - Scanners | Std Scanner | Education | Plug Load | New | measure | 68 | 3.9% | 0.04 | 4 | \$777 | 7% | 0.0 |
| FE-Penelec | Energy Star - Scanners | Std Scanner | Education | Plug Load | ROB | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| FE-Penelec | Energy Star Dishwasher | Existing Dishwasher units | Education | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,550 | 6% | 1.0 |
| FE-Penelec | Energy Star Dishwasher | Standard Dishwasher unit | Education | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,003 | 6% | 3.5 |
| FE-Penelec | Energy Star Dishwasher | Standard Dishwasher unit | Education | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,003 | 6% | 3.5 |
| FE-Penelec | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Education | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 17% | 0.2 |
| FE-Penelec | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Education | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.0 |
| FE-Penelec | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Education | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.0 |
| FE-Penelec | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Education | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 9% | 0.8 |
| FE-Penelec | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Education | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.7 |
| FE-Penelec | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Education | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.7 |
| FE-Penelec | ENERGY STAR® Copiers | 10% Less Efficient Copier | Education | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 18% | 0.0 |
| FE-Penelec | ENERGY STAR® Copiers | One Conventional Copier | Education | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| FE-Penelec | ENERGY STAR® Copiers | One Conventional Copier | Education | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| FE-Penelec | ENERGY STAR® desktop | Standard computer | Education | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 69% | 0.1 |
| FE-Penelec | ENERGY STAR® desktop | Standard computer | Education | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.3 |
| FE-Penelec | ENERGY STAR® desktop | Standard computer | Education | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.3 |
| FE-Penelec | ENERGY STAR® Fax | 10% Less Efficient Fax | Education | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 15% | 0.0 |
| FE-Penelec | ENERGY STAR® Fax | One Conventional Fax | Education | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| FE-Penelec | ENERGY STAR® Fax | One Conventional Fax | Education | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| FE-Penelec | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Education | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 70% | 0.0 |
| FE-Penelec | ENERGY STAR® Monitors | One Conventional Monitor | Education | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| FE-Penelec | ENERGY STAR® Monitors | One Conventional Monitor | Education | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| FE-Penelec | ENERGY STAR® Printers | 10% Less Efficient Printer | Education | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 44% | 0.0 |
| FE-Penelec | ENERGY STAR® Printers | One Conventional Printer | Education | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| FE-Penelec | ENERGY STAR® Printers | One Conventional Printer | Education | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$1,426 | 44% | 0.0 |
| FE-Penelec | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Education | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 43% | 0.1 |
| FE-Penelec | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Education | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.7 |
| FE-Penelec | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Education | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.7 |
| FE-Penelec | ENERGY STAR® Televisions | 10% Less Efficient Television | Education | Plug Load | Early | Unit | 185 | 38% | 0.01 | 6 | \$672 | 40% | 0.0 |
| FE-Penelec | ENERGY STAR® Televisions | One Conventional Television | Education | Plug Load | New | Unit | 168 | 32% | 0.01 | 6 | \$206 | 40% | 0.1 |
| FE-Penelec | ENERGY STAR® Televisions | One Conventional Television | Education | Plug Load | ROB | Unit | 168 | 32% | 0.01 | 6 | \$206 | 40% | 0.1 |
| FE-Penelec | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Education | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 24% | 0.3 |
| FE-Penelec | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Education | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.6 |
| FE-Penelec | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Education | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.6 |
| FE-Penelec | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Education | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.3 |
| FE-Penelec | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Education | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.3 |
| FE-Penelec | Network PC Power Management | No PC Power Management | Education | Plug Load | Existing | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 47.9 |
| FE-Penelec | Network PC Power Management | No PC Power Management | Education | Plug Load | New | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 47.9 |
| FE-Penelec | Smart Strip Plug Outlets | Standard plug strip/outlet | Education | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.4 |
| FE-Penelec | Smart Strip Plug Outlets | Standard plug strip/outlet | Education | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.4 |
| FE-Penelec | Smart Strip Plug Outlets | Standard plug strip/outlet | Education | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Penelec | Smart Strip Plug Outlets | Standard plug strip/outlet | Education | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Penelec | Smart Strip Plug Outlets | Standard plug strip/outlet | Education | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Penelec | Smart Strip Plug Outlets | Standard plug strip/outlet | Education | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Penelec | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Education | Plug Load | Existing | building | 5,262 | 46% | 0.5 | 5 | \$180 | 3% | 3.7 |
| FE-Penelec | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Education | Plug Load | New | building | 5,262 | 46% | 0.5 | 5 | \$180 | 3% | 3.7 |
| FE-Penelec | Air curtain technology | Strip plastic curtain | Education | Refrigeration | New | building | 21,310 | 6.8% | 0.07 | 8 | \$2,574 | 35% | 0.2 |
| FE-Penelec | Air curtain technology | Strip plastic curtain | Education | Refrigeration | New | building | 12,233 | 6.8% | 0.07 | 8 | \$2,623 | 35% | 0.1 |
| FE-Penelec | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Education | Refrigeration | Existing | building | 4,341 | 0.7% | 0.01 | 12 | \$70 | 11% | 0.3 |
| FE-Penelec | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Education | Refrigeration | New | building | 4,341 | 0.7% | 0.01 | 12 | \$70 | 11% | 0.3 |
| FE-Penelec | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Education | Refrigeration | Existing | building | 4,341 | 7.0% | 0.07 | 12 | \$70 | 11% | 2.5 |
| FE-Penelec | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Education | Refrigeration | New | building | 4,341 | 7.0% | 0.07 | 12 | \$70 | 11% | 2.5 |
| FE-Penelec | Auto Closer on Refrigerator Door | Door w/out Autocloser | Education | Refrigeration | Existing | building | 12,233 | 6.4% | 0.06 | 8 | \$698 | 40% | 0.4 |
| FE-Penelec | Auto Closer on Refrigerator Door | Door w/out Autocloser | Education | Refrigeration | Existing | building | 21,310 | 2.9% | 0.03 | 8 | \$559 | 40% | 0.4 |
| FE-Penelec | Auto Closer on Refrigerator Door | Door w/out Autocloser | Education | Refrigeration | New | building | 12,233 | 6.4% | 0.06 | 8 | \$698 | 40% | 0.4 |
| FE-Penelec | Auto Closer on Refrigerator Door | Door w/out Autocloser | Education | Refrigeration | New | building | 21,310 | 2.9% | 0.03 | 8 | \$559 | 40% | 0.4 |
| FE-Penelec | Demand Hot Gas Defrost | Base Refrigeration System | Education | Refrigeration | Existing | measure | 4,341 | 3.0% | 0.03 | 10 | \$1,272 | 0% | 0.1 |
| FE-Penelec | Demand Hot Gas Defrost | Base Refrigeration System | Education | Refrigeration | New | measure | 4,341 | 3.0% | 0.03 | 10 | \$1,272 | 0% | 0.1 |
| FE-Penelec | Door Gasket- Freezer | Door w/out Gasket | Education | Refrigeration | Existing | building | 12,233 | 3.5% | 0.04 | 4 | \$72 | 29% | 1.1 |
| FE-Penelec | Door Gasket- Freezer | Door w/out Gasket | Education | Refrigeration | New | building | 12,233 | 3.7% | 0.04 | 4 | \$72 | 29% | 1.2 |
| FE-Penelec | Door Gasket- Refrigerator | Door w/out Gasket | Education | Refrigeration | Existing | building | 21,310 | 0.9% | 0.01 | 4 | \$77 | 45% | 0.4 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|--|-----------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Door Gasket- Refrigerator | Door w/out Gasket | Education | Refrigeration | New | building | 21,310 | 0.9% | 0.01 | 4 | \$77 | 45% | 0.4 |
| FE-Penelec | Economizer for Walk-in Coolers | No Economizer | Education | Refrigeration | Early | measure | 39,466 | 6.6% | 0.4 | 10 | \$459 | 72% | 2.5 |
| FE-Penelec | Economizer for Walk-in Coolers | No Economizer | Education | Refrigeration | Early | measure | 39,466 | 6.6% | 0.4 | 10 | \$459 | 72% | 2.5 |
| FE-Penelec | Economizer for Walk-in Coolers | No Economizer | Education | Refrigeration | Early | measure | 39,466 | 6.6% | 0.4 | 10 | \$459 | 72% | 2.5 |
| FE-Penelec | Economizer for Walk-in Coolers | No Economizer | Education | Refrigeration | New | measure | 39,466 | 6.6% | 0.4 | 10 | \$54 | 72% | 21.6 |
| FE-Penelec | Economizer for Walk-in Coolers | No Economizer | Education | Refrigeration | New | measure | 39,466 | 6.6% | 0.4 | 10 | \$54 | 72% | 21.6 |
| FE-Penelec | Economizer for Walk-in Coolers | No Economizer | Education | Refrigeration | New | measure | 39,466 | 6.6% | 0.4 | 10 | \$54 | 72% | 21.6 |
| FE-Penelec | Economizer for Walk-in Coolers | No Economizer | Education | Refrigeration | ROB | measure | 39,466 | 6.6% | 0.4 | 10 | \$54 | 72% | 21.6 |
| FE-Penelec | Economizer for Walk-in Coolers | No Economizer | Education | Refrigeration | ROB | measure | 39,466 | 6.6% | 0.4 | 10 | \$54 | 72% | 21.6 |
| FE-Penelec | eCube | Refrigeration unit w/out eCube | Education | Refrigeration | Existing | building | 21,310 | 15% | 0.2 | 15 | \$1,164 | 57% | 1.5 |
| FE-Penelec | eCube | Refrigeration unit w/out eCube | Education | Refrigeration | New | building | 21,310 | 15% | 0.2 | 15 | \$1,164 | 57% | 1.5 |
| FE-Penelec | Efficient compressor motor | Base Refrigeration System - Grocery | Education | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.6 |
| FE-Penelec | Efficient compressor motor | Base Refrigeration System - Grocery | Education | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.6 |
| FE-Penelec | Efficient compressor motor | Base Refrigeration System - Grocery | Education | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.6 |
| FE-Penelec | Efficient compressor motor | Base Refrigeration System - Grocery | Education | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.6 |
| FE-Penelec | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Education | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.5 |
| FE-Penelec | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Education | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| FE-Penelec | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Education | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| FE-Penelec | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Education | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.3 |
| FE-Penelec | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Education | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.7 |
| FE-Penelec | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Education | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.7 |
| FE-Penelec | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Education | Refrigeration | Existing | building | 21,310 | 1.3% | 0.01 | 10 | \$369 | 77% | 0.3 |
| FE-Penelec | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Education | Refrigeration | New | building | 21,310 | 1.3% | 0.01 | 10 | \$369 | 77% | 0.3 |
| FE-Penelec | Floating head pressure controller | System w/out FHPC | Education | Refrigeration | Existing | building | 12,233 | 1.9% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penelec | Floating head pressure controller | System w/out FHPC | Education | Refrigeration | Existing | building | 4,341 | 2.1% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penelec | Floating head pressure controller | System w/out FHPC | Education | Refrigeration | Existing | building | 21,310 | 0.4% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penelec | Floating head pressure controller | System w/out FHPC | Education | Refrigeration | New | building | 12,233 | 1.9% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penelec | Floating head pressure controller | System w/out FHPC | Education | Refrigeration | New | building | 4,341 | 2.1% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penelec | Floating head pressure controller | System w/out FHPC | Education | Refrigeration | New | building | 21,310 | 0.4% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penelec | High Efficiency Commercial Freezer | Std. Commercial Freezer | Education | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 86% | 0.3 |
| FE-Penelec | High Efficiency Commercial Freezer | Std. Commercial Freezer | Education | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 3.8 |
| FE-Penelec | High Efficiency Commercial Freezer | Std. Commercial Freezer | Education | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 3.8 |
| FE-Penelec | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Education | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 21% | 0.1 |
| FE-Penelec | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Education | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 21% | 0.8 |
| FE-Penelec | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Education | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 21% | 0.8 |
| FE-Penelec | High Efficiency Ice Maker | Existing Standard Efficiency Ice Maker in Pennsylvania | Education | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 73% | 0.1 |
| FE-Penelec | High Efficiency Ice Maker | Standard code minimum Ice Maker | Education | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| FE-Penelec | High Efficiency Ice Maker | Standard code minimum Ice Maker | Education | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| FE-Penelec | High Efficiency Ice Making Head | Standard Ice Making Head | Education | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.7 |
| FE-Penelec | High Efficiency Ice Making Head | Standard Ice Making Head | Education | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.7 |
| FE-Penelec | High R-Value Glass Doors | Base Refrigeration System - Grocery | Education | Refrigeration | Existing | building | 4,341 | 0.7% | 0.01 | 10 | \$56 | 0% | 0.3 |
| FE-Penelec | High R-Value Glass Doors | Base Refrigeration System - Grocery | Education | Refrigeration | New | building | 4,341 | 0.7% | 0.01 | 10 | \$56 | 0% | 0.3 |
| FE-Penelec | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Education | Refrigeration | Early | Fixture | 373 | 56% | 0.02 | 8 | \$448 | 66% | 0.2 |
| FE-Penelec | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Education | Refrigeration | New | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 66% | 0.3 |
| FE-Penelec | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Education | Refrigeration | ROB | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 66% | 0.3 |
| FE-Penelec | No-heat glass doors | Standard low-temp reach-in | Education | Refrigeration | Existing | building | 4,341 | 20% | 0.2 | 10 | \$5,151 | 8% | 0.1 |
| FE-Penelec | No-heat glass doors | Standard low-temp reach-in | Education | Refrigeration | New | building | 4,341 | 20% | 0.2 | 10 | \$5,151 | 8% | 0.1 |
| FE-Penelec | Quick acting freezer doors | Std. Freezer Doors | Education | Refrigeration | Existing | building | 12,233 | 13% | 0.1 | 10 | \$3,164 | 56% | 0.2 |
| FE-Penelec | Quick acting freezer doors | Std. Freezer Doors | Education | Refrigeration | New | building | 12,233 | 13% | 0.1 | 10 | \$3,164 | 56% | 0.2 |
| FE-Penelec | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Education | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 30% | 0.4 |
| FE-Penelec | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Education | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.5 |
| FE-Penelec | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Education | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.5 |
| FE-Penelec | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 30% | 1.6 |
| FE-Penelec | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 2.8 |
| FE-Penelec | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 2.8 |
| FE-Penelec | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 30% | 1.6 |
| FE-Penelec | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 3.8 |
| FE-Penelec | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 3.8 |
| FE-Penelec | Refrigeration Commissioning | Non-commissioned refrigeration system | Education | Refrigeration | Existing | building | 39,463 | 9.5% | 0.10 | 3 | \$8,955 | 85% | 0.1 |
| FE-Penelec | Refrigeration Commissioning | Non-commissioned refrigeration system | Education | Refrigeration | New | building | 39,463 | 9.5% | 0.10 | 3 | \$8,955 | 85% | 0.1 |
| FE-Penelec | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Education | Refrigeration | Existing | building | 12,233 | 8.2% | 0.08 | 4 | \$87 | 22% | 2.2 |
| FE-Penelec | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Education | Refrigeration | Existing | building | 21,310 | 1.3% | 0.01 | 4 | \$94 | 22% | 0.5 |
| FE-Penelec | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Education | Refrigeration | New | building | 12,233 | 8.2% | 0.08 | 4 | \$87 | 22% | 2.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|---|-----------|-----------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Education | Refrigeration | New | building | 21,310 | 1.3% | 0.01 | 4 | \$94 | 22% | 0.5 |
| FE-Penelec | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Education | Refrigeration | Existing | building | 12,233 | 1.9% | 0.02 | 11 | \$148 | 79% | 0.7 |
| FE-Penelec | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Education | Refrigeration | New | building | 12,233 | 1.9% | 0.02 | 11 | \$148 | 79% | 0.7 |
| FE-Penelec | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Education | Refrigeration | Existing | building | 21,310 | 1.4% | 0.01 | 11 | \$148 | 79% | 0.8 |
| FE-Penelec | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Education | Refrigeration | New | building | 21,310 | 1.4% | 0.01 | 11 | \$148 | 79% | 0.8 |
| FE-Penelec | Vertical Night Covers | Display cases w/out night covers-High Temperature | Education | Refrigeration | Existing | building | 4,341 | 0.2% | 0.00 | 5 | \$66 | 9% | 0.0 |
| FE-Penelec | Vertical Night Covers | Display cases w/out night covers-High Temperature | Education | Refrigeration | New | building | 4,341 | 0.2% | 0.00 | 5 | \$66 | 9% | 0.0 |
| FE-Penelec | VSD Controlled Compressor | Compressor w/out VSD | Education | Refrigeration | Early | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 63% | 0.1 |
| FE-Penelec | VSD Controlled Compressor | Compressor w/out VSD | Education | Refrigeration | New | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 63% | 0.1 |
| FE-Penelec | VSD Controlled Compressor | Compressor w/out VSD | Education | Refrigeration | ROB | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 63% | 0.1 |
| FE-Penelec | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Education | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$269 | 35% | 0.9 |
| FE-Penelec | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Education | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$269 | 35% | 0.8 |
| FE-Penelec | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Education | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.0 |
| FE-Penelec | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Education | Refrigeration | New | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 2.9 |
| FE-Penelec | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Education | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.0 |
| FE-Penelec | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Education | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 2.9 |
| FE-Penelec | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 35% | 2.3 |
| FE-Penelec | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 35% | 2.2 |
| FE-Penelec | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 4.9 |
| FE-Penelec | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.6 |
| FE-Penelec | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 4.9 |
| FE-Penelec | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.6 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Education | Space Heating | Existing | building | 32,242 | 7.1% | 0.07 | 6 | \$19,621 | 82% | 0.0 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Education | Space Heating | New | building | 32,242 | 7.1% | 0.07 | 6 | \$19,621 | 82% | 0.0 |
| FE-Penelec | Adding window shade film | No shade film | Education | Space Heating | Existing | building | 32,242 | 1.3% | 0.4 | 10 | \$392 | 13% | 1.0 |
| FE-Penelec | Adding window shade film | No shade film | Education | Space Heating | New | building | 32,242 | 1.3% | 0.4 | 10 | \$392 | 13% | 1.0 |
| FE-Penelec | Adding window shade screen | No shade screen | Education | Space Heating | Existing | building | 32,242 | 1.1% | 0.01 | 10 | \$152 | 13% | 0.8 |
| FE-Penelec | Adding window shade screen | No shade screen | Education | Space Heating | New | building | 32,242 | 1.1% | 0.01 | 10 | \$152 | 13% | 0.8 |
| FE-Penelec | Automated control system | Manual Controls | Education | Space Heating | Existing | building | 32,242 | 17% | 0.2 | 15 | \$35,298 | 51% | 0.1 |
| FE-Penelec | Automated control system | Manual Controls | Education | Space Heating | New | building | 32,242 | 17% | 0.2 | 15 | \$35,298 | 94% | 0.1 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Education | Space Heating | Existing | building | 32,242 | 1.6% | 0.02 | 15 | \$26,439 | 71% | 0.0 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Education | Space Heating | New | building | 32,242 | 0.5% | 0.01 | 15 | \$25,131 | 94% | 0.0 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Education | Space Heating | Existing | building | 32,242 | 1.4% | 0.04 | 15 | \$256 | 20% | 1.0 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Education | Space Heating | New | building | 32,242 | 1.4% | 0.04 | 15 | \$256 | 10% | 1.0 |
| FE-Penelec | Efficient Unit Heating System | Existing Unit Heaters in PA | Education | Space Heating | Early | heater | 29,292 | 23% | 0.05 | 15 | \$3,289 | 83% | 1.0 |
| FE-Penelec | Efficient Unit Heating System | Std. Unit Heater | Education | Space Heating | New | heater | 25,996 | 13% | 0.03 | 15 | \$1,991 | 83% | 0.8 |
| FE-Penelec | Efficient Unit Heating System | Std. Unit Heater | Education | Space Heating | ROB | heater | 25,996 | 13% | 0.03 | 15 | \$1,991 | 83% | 0.8 |
| FE-Penelec | Facility Commissioning | No Facility Commissioning | Education | Space Heating | New | building | 32,242 | 16% | 0.2 | 10 | \$5,327 | 89% | 0.3 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Education | Space Heating | Existing | building | 32,242 | 7.1% | 0.07 | 15 | \$143,020 | 25% | 0.0 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Education | Space Heating | New | building | 32,242 | 7.1% | 0.07 | 15 | \$143,020 | 35% | 0.0 |
| FE-Penelec | Hi Eff HVAC System Design | No HVAC Design | Education | Space Heating | New | building | 32,242 | 14% | 0.1 | 10 | \$79,071 | 51% | 0.0 |
| FE-Penelec | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Education | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$76 | 80% | 1.0 |
| FE-Penelec | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Education | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$76 | 80% | 1.0 |
| FE-Penelec | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Education | Space Heating | Existing | building | 32,242 | 3.5% | 0.04 | 10 | \$7,735 | 81% | 0.1 |
| FE-Penelec | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Education | Space Heating | New | building | 32,242 | 3.5% | 0.04 | 10 | \$7,735 | 81% | 0.1 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Education | Space Heating | Existing | building | 32,242 | 3.6% | 0.04 | 11 | \$286 | 49% | 1.6 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Education | Space Heating | New | building | 32,242 | 3.1% | 0.03 | 11 | \$146 | 49% | 2.6 |
| FE-Penelec | Re-Commissioning (Existing Construction) | No Re-Commissioning | Education | Space Heating | Existing | building | 32,242 | 16% | 0.2 | 5 | \$9,680 | 86% | 0.1 |
| FE-Penelec | VFD on Cooling Tower Fan | Motor w/out VFD | Education | Space Heating | Early | motor | 30,355 | 70% | 3.4 | 15 | \$2,843 | 88% | 4.7 |
| FE-Penelec | VFD on Cooling Tower Fan | Motor w/out VFD | Education | Space Heating | New | motor | 29,787 | 72% | 3.3 | 15 | \$2,843 | 88% | 4.7 |
| FE-Penelec | VFD on Cooling Tower Fan | Motor w/out VFD | Education | Space Heating | ROB | motor | 29,787 | 72% | 3.3 | 15 | \$2,843 | 88% | 4.7 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Education | Space Heating | Existing | building | 32,242 | 3.6% | 0.04 | 15 | \$6,377 | 26% | 0.1 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Education | Space Heating | New | building | 32,242 | 0.1% | 0.00 | 15 | \$4,891 | 94% | 0.0 |
| FE-Penelec | Green LED Traffic Light | Green Incandescent Traffic Light | Education | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 0% | 1.2 |
| FE-Penelec | Green LED Traffic Light | Green Incandescent Traffic Light | Education | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| FE-Penelec | Green LED Traffic Light | Green Incandescent Traffic Light | Education | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| FE-Penelec | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Education | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 0% | 3.0 |
| FE-Penelec | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Education | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-Penelec | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Education | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-Penelec | Induction Street Lighting | One 100W HPS Street Light Fixture | Education | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 0% | 0.3 |
| FE-Penelec | Induction Street Lighting | One 100W HPS Street Light Fixture | Education | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.7 |
| FE-Penelec | Induction Street Lighting | One 100W HPS Street Light Fixture | Education | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.7 |
| FE-Penelec | LED Street Lighting | One 100W HPS Street Light | Education | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 0% | 0.2 |
| FE-Penelec | LED Street Lighting | One 100W HPS Street Light | Education | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-Penelec | LED Street Lighting | One 100W HPS Street Light | Education | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|--|---|-----------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Red LED Traffic Light | One Red Incandescent Traffic Light | Education | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 0% | 1.6 |
| FE-Penelec | Red LED Traffic Light | One Red Incandescent Traffic Light | Education | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| FE-Penelec | Red LED Traffic Light | One Red Incandescent Traffic Light | Education | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| FE-Penelec | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Education | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 0% | 0.1 |
| FE-Penelec | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Education | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-Penelec | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Education | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-Penelec | Demand controlled Circulating Systems | Constant circulation system | Education | Water Heating | Existing | building | 29,378 | 20% | 0.2 | 15 | \$5,331 | 59% | 0.6 |
| FE-Penelec | Demand controlled Circulating Systems | Constant circulation system | Education | Water Heating | New | building | 29,378 | 20% | 0.2 | 15 | \$7,160 | 59% | 0.5 |
| FE-Penelec | Drainwater Heat Recovery Water Heater | No heat recovery | Education | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.9 |
| FE-Penelec | Drainwater Heat Recovery Water Heater | No heat recovery | Education | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.9 |
| FE-Penelec | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Education | Water Heating | Existing | building | 29,378 | 5.9% | 0.06 | 12 | \$210 | 85% | 3.8 |
| FE-Penelec | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Education | Water Heating | New | building | 29,378 | 5.9% | 0.06 | 12 | \$60 | 85% | 13.2 |
| FE-Penelec | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Education | Water Heating | Early | water heater | 46,899 | 66% | 5.5 | 10 | \$2,375 | 68% | 6.4 |
| FE-Penelec | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Education | Water Heating | Early | water heater | 46,899 | 66% | 5.5 | 10 | \$2,375 | 68% | 6.4 |
| FE-Penelec | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Education | Water Heating | New | water heater | 46,899 | 66% | 5.5 | 10 | \$2,375 | 68% | 6.4 |
| FE-Penelec | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Education | Water Heating | New | water heater | 46,899 | 66% | 5.5 | 10 | \$2,375 | 68% | 6.4 |
| FE-Penelec | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Education | Water Heating | ROB | water heater | 45,596 | 65% | 5.3 | 10 | \$2,375 | 68% | 6.2 |
| FE-Penelec | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Education | Water Heating | ROB | water heater | 45,596 | 65% | 5.3 | 10 | \$2,375 | 68% | 6.2 |
| FE-Penelec | Heat Recovery Unit | Base Water Heating | Education | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.6 |
| FE-Penelec | Heat Recovery Unit | Base Water Heating | Education | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.6 |
| FE-Penelec | Heat Trap | No Heat Trap | Education | Water Heating | Existing | building | 29,378 | 22% | 0.2 | 11 | \$200 | 50% | 13.8 |
| FE-Penelec | Heat Trap | No Heat Trap | Education | Water Heating | New | building | 29,378 | 22% | 0.2 | 11 | \$30 | 50% | 92.7 |
| FE-Penelec | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Education | Water Heating | Early | water heater | 46,899 | 5.9% | 0.5 | 15 | \$614 | 79% | 3.1 |
| FE-Penelec | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Education | Water Heating | Early | water heater | 46,899 | 5.9% | 0.5 | 15 | \$614 | 79% | 3.1 |
| FE-Penelec | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Education | Water Heating | New | water heater | 45,596 | 3.2% | 0.3 | 15 | \$614 | 79% | 1.7 |
| FE-Penelec | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Education | Water Heating | New | water heater | 45,596 | 3.2% | 0.3 | 15 | \$614 | 79% | 1.7 |
| FE-Penelec | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Education | Water Heating | ROB | water heater | 45,596 | 3.2% | 0.3 | 15 | \$614 | 79% | 1.7 |
| FE-Penelec | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Education | Water Heating | ROB | water heater | 45,596 | 3.2% | 0.3 | 15 | \$614 | 79% | 1.7 |
| FE-Penelec | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Education | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$466 | 81% | 39.2 |
| FE-Penelec | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Education | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 20.4 |
| FE-Penelec | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Education | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 20.4 |
| FE-Penelec | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Education | Water Heating | Existing | building | 29,378 | 0.4% | 0.00 | 13 | \$16 | 68% | 3.7 |
| FE-Penelec | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Education | Water Heating | New | building | 29,378 | 0.4% | 0.00 | 13 | \$16 | 0% | 3.7 |
| FE-Penelec | Hot Water Circulation Pump Time-Clock | Constant circulation system | Education | Water Heating | Existing | building | 29,378 | 5.3% | 0.05 | 10 | \$119 | 72% | 5.2 |
| FE-Penelec | Hot Water Circulation Pump Time-Clock | Constant circulation system | Education | Water Heating | New | building | 29,378 | 5.3% | 0.05 | 10 | \$119 | 72% | 5.2 |
| FE-Penelec | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Education | Water Heating | Existing | building | 29,378 | 0.2% | 0.00 | 7 | \$22 | 78% | 0.9 |
| FE-Penelec | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Education | Water Heating | New | building | 29,378 | 0.2% | 0.00 | 7 | \$0.5 | 78% | 37.6 |
| FE-Penelec | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Education | Water Heating | Existing | building | 29,378 | 0.6% | 0.01 | 5 | \$300 | 20% | 0.1 |
| FE-Penelec | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Education | Water Heating | New | building | 29,378 | 0.4% | 0.00 | 5 | \$194 | 20% | 0.1 |
| FE-Penelec | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Education | Water Heating | Existing | building | 29,378 | 6.5% | 0.07 | 9 | \$200 | 2% | 3.5 |
| FE-Penelec | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Education | Water Heating | New | building | 29,378 | 6.5% | 0.07 | 9 | \$48 | 2% | 14.4 |
| FE-Penelec | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Education | Water Heating | Early | water heater | 46,899 | 52% | 2.0 | 15 | \$12,444 | 32% | 1.2 |
| FE-Penelec | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Education | Water Heating | New | water heater | 45,596 | 51% | 1.9 | 15 | \$12,444 | 32% | 1.1 |
| FE-Penelec | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Education | Water Heating | ROB | water heater | 45,596 | 51% | 1.9 | 15 | \$12,444 | 32% | 1.1 |
| FE-Penelec | Ultrasonic Faucet Control | Manual Faucet Control | Education | Water Heating | Existing | building | 29,378 | 3.0% | 0.03 | 10 | \$5,081 | 77% | 0.1 |
| FE-Penelec | Ultrasonic Faucet Control | Manual Faucet Control | Education | Water Heating | New | building | 29,378 | 3.0% | 0.03 | 10 | \$5,081 | 77% | 0.1 |
| FE-Penelec | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Education | Water Heating | Existing | building | 29,378 | 2.2% | 0.02 | 4 | \$28 | 83% | 4.3 |
| FE-Penelec | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Education | Water Heating | New | building | 29,378 | 2.3% | 0.02 | 4 | \$28 | 83% | 4.5 |
| FE-Penelec | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Gov't | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.1 |
| FE-Penelec | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Gov't | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.1 |
| FE-Penelec | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Gov't | Cooking | Early | steamer | 51 | 46% | 0.00 | 12 | \$5,053 | 81% | 0.0 |
| FE-Penelec | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Gov't | Cooking | New | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-Penelec | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Gov't | Cooking | ROB | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-Penelec | Electric combination oven (Energy Star) | Standard Oven | Gov't | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.9 |
| FE-Penelec | Electric combination oven (Energy Star) | Standard Oven | Gov't | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.9 |
| FE-Penelec | Electric Convection Oven | Conventional convection oven w/ 65% efficiency | Gov't | Cooking | Early | oven | 8,641 | 37% | 0.6 | 12 | \$4,119 | 81% | 0.4 |
| FE-Penelec | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Gov't | Cooking | New | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.7 |
| FE-Penelec | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Gov't | Cooking | ROB | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.7 |
| FE-Penelec | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Gov't | Cooking | Early | fryer | 6,105 | 23% | 0.3 | 12 | \$9,241 | 86% | 0.1 |
| FE-Penelec | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Gov't | Cooking | New | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| FE-Penelec | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Gov't | Cooking | ROB | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| FE-Penelec | High Efficiency Griddle (ENERGY STAR) | Efficiency code minimum griddle (70% eff) | Gov't | Cooking | Early | griddle | 11,317 | 65% | 1.4 | 12 | \$4,977 | 86% | 0.8 |
| FE-Penelec | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Gov't | Cooking | New | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.2 |
| FE-Penelec | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Gov't | Cooking | ROB | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|--|---|---------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | High Efficiency Induction Cooking | Standard Cooking | Gov't | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-Penelec | High Efficiency Induction Cooking | Standard Cooking | Gov't | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-Penelec | Active chilled beam cooling | No Active Chilled beam cooling | Gov't | Cooling Central | New | building | 2,842 | 5.3% | 0.05 | 15 | \$743 | 72% | 0.2 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Gov't | Cooling Central | Existing | building | 2,992 | 7.0% | 0.07 | 6 | \$12,713 | 82% | 0.0 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Gov't | Cooling Central | New | building | 2,992 | 7.0% | 0.07 | 6 | \$12,713 | 82% | 0.0 |
| FE-Penelec | Adding window shade film | No shade film | Gov't | Cooling Central | Existing | building | 2,992 | 1.3% | 0.4 | 10 | \$36 | 12% | 7.6 |
| FE-Penelec | Adding window shade film | No shade film | Gov't | Cooling Central | New | building | 2,992 | 1.3% | 0.4 | 10 | \$36 | 13% | 7.6 |
| FE-Penelec | Adding window shade screen | No shade screen | Gov't | Cooling Central | Existing | building | 2,992 | 1.1% | 0.01 | 10 | \$14 | 13% | 1.3 |
| FE-Penelec | Adding window shade screen | No shade screen | Gov't | Cooling Central | New | building | 2,992 | 1.0% | 0.01 | 10 | \$14 | 13% | 1.3 |
| FE-Penelec | Automated control system | Manual Controls | Gov't | Cooling Central | Existing | building | 2,992 | 17% | 0.2 | 15 | \$3,276 | 51% | 0.1 |
| FE-Penelec | Automated control system | Manual Controls | Gov't | Cooling Central | New | building | 2,992 | 17% | 0.2 | 15 | \$3,276 | 94% | 0.1 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Gov't | Cooling Central | Existing | building | 2,992 | 3.4% | 0.03 | 15 | \$17,130 | 71% | 0.0 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Gov't | Cooling Central | New | building | 2,992 | 1.1% | 0.01 | 15 | \$16,283 | 94% | 0.0 |
| FE-Penelec | Chilled Water Reset, Optimizer System for Chiller(s) | No Chilled Water Reset | Gov't | Cooling Central | Existing | building | 2,992 | 3.7% | 0.04 | 10 | \$14 | 69% | 5.0 |
| FE-Penelec | Chiller Tune Up Diagnostics | No Chiller Tune Up | Gov't | Cooling Central | Existing | building | 2,992 | 2.3% | 0.02 | 10 | \$3.0 | 59% | 13.9 |
| FE-Penelec | Chiller Tuneup/Diagnostics | No tuneup | Gov't | Cooling Central | Existing | building | 2,992 | 8.0% | 0.08 | 10 | \$7,640 | 59% | 0.0 |
| FE-Penelec | Chiller Tuneup/Diagnostics | No tuneup | Gov't | Cooling Central | New | building | 2,992 | 8.0% | 0.08 | 10 | \$7,640 | 59% | 0.0 |
| FE-Penelec | Cooling Tower Optimization | No Cooling Tower Optimization | Gov't | Cooling Central | Existing | building | 2,992 | 4.9% | 0.05 | 10 | \$14 | 73% | 6.6 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Gov't | Cooling Central | Existing | building | 2,992 | 1.4% | 0.04 | 15 | \$24 | 20% | 2.5 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Gov't | Cooling Central | New | building | 2,992 | 1.4% | 0.04 | 15 | \$24 | 10% | 2.5 |
| FE-Penelec | Facility Commissioning | No Facility Commissioning | Gov't | Cooling Central | New | building | 2,992 | 16% | 0.2 | 10 | \$142,794 | 89% | 0.0 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Gov't | Cooling Central | Existing | building | 2,992 | 7.0% | 0.07 | 15 | \$13,272 | 25% | 0.0 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Gov't | Cooling Central | New | building | 2,992 | 7.0% | 0.07 | 15 | \$13,272 | 35% | 0.0 |
| FE-Penelec | Hi Eff HVAC System Design | No HVAC Design | Gov't | Cooling Central | New | building | 2,992 | 7.3% | 0.07 | 10 | \$1,051,305 | 51% | 0.0 |
| FE-Penelec | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Gov't | Cooling Central | Early | ton | 3,841 | 24% | 0.3 | 15 | \$108,550 | 88% | 0.0 |
| FE-Penelec | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Gov't | Cooling Central | New | ton | 3,140 | 6.7% | 0.07 | 15 | \$12,927 | 88% | 0.0 |
| FE-Penelec | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Gov't | Cooling Central | ROB | ton | 3,140 | 6.7% | 0.07 | 15 | \$12,927 | 88% | 0.0 |
| FE-Penelec | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Gov't | Cooling Central | Early | ton | 5,740 | 23% | 0.5 | 15 | \$140,105 | 88% | 0.0 |
| FE-Penelec | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Gov't | Cooling Central | New | ton | 4,618 | 4.9% | 0.08 | 15 | \$9,336 | 88% | 0.0 |
| FE-Penelec | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Gov't | Cooling Central | ROB | ton | 4,618 | 4.9% | 0.08 | 15 | \$9,336 | 88% | 0.0 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Gov't | Cooling Central | Early | ton | 46,985 | 26% | 4.2 | 15 | \$105,354 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Gov't | Cooling Central | New | ton | 40,938 | 15% | 2.1 | 15 | \$30,530 | 88% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Gov't | Cooling Central | ROB | ton | 40,938 | 15% | 2.1 | 15 | \$30,530 | 88% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Gov't | Cooling Central | Early | ton | 70,371 | 23% | 5.6 | 15 | \$154,107 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Gov't | Cooling Central | New | ton | 64,645 | 16% | 3.6 | 15 | \$27,646 | 88% | 0.3 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Gov't | Cooling Central | ROB | ton | 70,371 | 23% | 5.6 | 15 | \$27,646 | 88% | 0.5 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Gov't | Cooling Central | Early | ton | 116,873 | 23% | 9.2 | 15 | \$302,924 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Gov't | Cooling Central | New | ton | 105,779 | 14% | 5.3 | 15 | \$115,432 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Gov't | Cooling Central | ROB | ton | 116,873 | 23% | 9.2 | 15 | \$115,432 | 88% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Gov't | Cooling Central | Early | ton | 140,248 | 23% | 11.0 | 15 | \$350,154 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Gov't | Cooling Central | New | ton | 126,935 | 14% | 6.4 | 15 | \$120,406 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Gov't | Cooling Central | ROB | ton | 140,248 | 23% | 11.0 | 15 | \$120,406 | 88% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Gov't | Cooling Central | Early | ton | 31,087 | 29% | 3.2 | 15 | \$83,632 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Gov't | Cooling Central | New | ton | 24,139 | 8.9% | 0.7 | 15 | \$40,211 | 88% | 0.0 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Gov't | Cooling Central | ROB | ton | 31,087 | 29% | 3.2 | 15 | \$40,211 | 88% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Gov't | Cooling Central | Early | ton | 53,416 | 35% | 6.5 | 15 | \$132,173 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Gov't | Cooling Central | New | ton | 39,839 | 13% | 1.7 | 15 | \$39,556 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Gov't | Cooling Central | ROB | ton | 39,839 | 13% | 1.7 | 15 | \$39,556 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Gov't | Cooling Central | Early | ton | 89,181 | 39% | 12.1 | 15 | \$187,029 | 88% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Gov't | Cooling Central | New | ton | 63,585 | 15% | 3.2 | 15 | \$33,554 | 88% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Gov't | Cooling Central | ROB | ton | 89,181 | 39% | 12.1 | 15 | \$33,554 | 88% | 0.9 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|---|---------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Gov't | Cooling Central | Early | ton | 15,605 | 30% | 1.6 | 15 | \$32,398 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Gov't | Cooling Central | New | ton | 12,364 | 11% | 0.5 | 15 | \$7,188 | 88% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Gov't | Cooling Central | ROB | ton | 15,605 | 30% | 1.6 | 15 | \$7,188 | 88% | 0.6 |
| FE-Penelec | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Gov't | Cooling Central | Existing | building | 2,992 | 1.0% | 0.01 | 10 | \$41,268 | 81% | 0.0 |
| FE-Penelec | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Gov't | Cooling Central | New | building | 2,992 | 1.0% | 0.01 | 10 | \$41,268 | 81% | 0.0 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Gov't | Cooling Central | Existing | building | 2,992 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.1 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Gov't | Cooling Central | New | building | 2,992 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.2 |
| FE-Penelec | Re-Commissioning (Existing Construction) | No Re-Commissioning | Gov't | Cooling Central | Existing | building | 2,992 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Gov't | Cooling Central | Existing | building | 2,992 | 6.0% | 0.06 | 15 | \$3,285 | 26% | 0.0 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Gov't | Cooling Central | New | building | 2,992 | 0.2% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| FE-Penelec | <65k BTU/hr 14 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Gov't | Cooling Unitary | Early | ton | 3,324 | 16% | 0.2 | 15 | \$1,545 | 29% | 0.3 |
| FE-Penelec | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Gov't | Cooling Unitary | New | ton | 3,010 | 7.1% | 0.09 | 15 | \$339 | 29% | 0.6 |
| FE-Penelec | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Gov't | Cooling Unitary | ROB | ton | 3,010 | 7.1% | 0.09 | 15 | \$339 | 29% | 0.6 |
| FE-Penelec | <65k BTU/hr 15 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Gov't | Cooling Unitary | Early | ton | 3,324 | 22% | 0.3 | 15 | \$1,821 | 30% | 0.4 |
| FE-Penelec | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Gov't | Cooling Unitary | New | ton | 3,010 | 13% | 0.2 | 15 | \$714 | 30% | 0.5 |
| FE-Penelec | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Gov't | Cooling Unitary | ROB | ton | 3,010 | 13% | 0.2 | 15 | \$714 | 30% | 0.5 |
| FE-Penelec | <65k BTU/hr 16 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Gov't | Cooling Unitary | Early | ton | 3,324 | 26% | 0.4 | 15 | \$2,098 | 31% | 0.4 |
| FE-Penelec | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Gov't | Cooling Unitary | New | ton | 3,010 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.5 |
| FE-Penelec | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Gov't | Cooling Unitary | ROB | ton | 3,010 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.5 |
| FE-Penelec | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Gov't | Cooling Unitary | Early | ton | 84,089 | 3.7% | 1.3 | 15 | \$68,066 | 56% | 0.0 |
| FE-Penelec | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Gov't | Cooling Unitary | New | ton | 85,167 | 4.9% | 1.7 | 15 | \$6,231 | 56% | 0.6 |
| FE-Penelec | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Gov't | Cooling Unitary | ROB | ton | 85,167 | 4.9% | 1.7 | 15 | \$6,231 | 56% | 0.6 |
| FE-Penelec | 135-240k min 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Gov't | Cooling Unitary | Early | ton | 20,690 | 18% | 1.6 | 15 | \$18,135 | 79% | 0.2 |
| FE-Penelec | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Gov't | Cooling Unitary | New | ton | 18,821 | 10.0% | 0.8 | 15 | \$1,948 | 79% | 0.9 |
| FE-Penelec | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Gov't | Cooling Unitary | ROB | ton | 18,821 | 10.0% | 0.8 | 15 | \$1,948 | 79% | 0.9 |
| FE-Penelec | 240k-760k min 11 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Gov't | Cooling Unitary | Early | ton | 55,321 | 9.0% | 2.1 | 15 | \$44,809 | 66% | 0.1 |
| FE-Penelec | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Gov't | Cooling Unitary | New | ton | 55,459 | 9.3% | 2.1 | 15 | \$4,813 | 66% | 1.0 |
| FE-Penelec | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Gov't | Cooling Unitary | ROB | ton | 55,459 | 9.3% | 2.1 | 15 | \$4,813 | 66% | 1.0 |
| FE-Penelec | 65k-135k BTU/hr 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Gov't | Cooling Unitary | Early | ton | 12,197 | 17% | 0.8 | 15 | \$10,946 | 86% | 0.2 |
| FE-Penelec | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Gov't | Cooling Unitary | New | ton | 10,870 | 6.7% | 0.3 | 15 | \$1,392 | 86% | 0.5 |
| FE-Penelec | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Gov't | Cooling Unitary | ROB | ton | 10,870 | 6.7% | 0.3 | 15 | \$1,392 | 86% | 0.5 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Gov't | Cooling Unitary | Existing | building | 44,415 | 7.1% | 0.07 | 6 | \$12,713 | 82% | 0.1 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Gov't | Cooling Unitary | New | building | 44,415 | 7.1% | 0.07 | 6 | \$12,713 | 82% | 0.1 |
| FE-Penelec | Adding window shade film | No shade film | Gov't | Cooling Unitary | Existing | building | 44,415 | 1.3% | 0.4 | 10 | \$540 | 12% | 0.9 |
| FE-Penelec | Adding window shade film | No shade film | Gov't | Cooling Unitary | New | building | 44,415 | 1.3% | 0.4 | 10 | \$540 | 13% | 0.9 |
| FE-Penelec | Adding window shade screen | No shade screen | Gov't | Cooling Unitary | Existing | building | 44,415 | 1.1% | 0.01 | 10 | \$209 | 12% | 0.9 |
| FE-Penelec | Adding window shade screen | No shade screen | Gov't | Cooling Unitary | New | building | 44,415 | 1.1% | 0.01 | 10 | \$209 | 13% | 0.9 |
| FE-Penelec | Automated control system | Manual Controls | Gov't | Cooling Unitary | Existing | building | 44,415 | 17% | 0.2 | 15 | \$48,624 | 51% | 0.1 |
| FE-Penelec | Automated control system | Manual Controls | Gov't | Cooling Unitary | New | building | 44,415 | 17% | 0.2 | 15 | \$48,624 | 94% | 0.1 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Gov't | Cooling Unitary | Existing | building | 44,415 | 3.4% | 0.03 | 15 | \$17,130 | 71% | 0.0 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Gov't | Cooling Unitary | New | building | 44,415 | 1.1% | 0.01 | 15 | \$16,283 | 94% | 0.0 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Gov't | Cooling Unitary | Existing | building | 44,415 | 1.4% | 0.04 | 15 | \$353 | 20% | 1.0 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Gov't | Cooling Unitary | New | building | 44,415 | 1.4% | 0.04 | 15 | \$353 | 10% | 1.0 |
| FE-Penelec | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Gov't | Cooling Unitary | Existing | building | 24,428 | 13% | 0.1 | 1 | \$234 | 73% | 0.7 |
| FE-Penelec | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Gov't | Cooling Unitary | New | building | 24,428 | 13% | 0.1 | 1 | \$234 | 73% | 0.7 |
| FE-Penelec | ECM Motors for split systems | Std Shaded Pole Motor | Gov't | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.9 |
| FE-Penelec | ECM Motors for split systems | Std Shaded Pole Motor | Gov't | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.9 |
| FE-Penelec | Facility Commissioning | No Facility Commissioning | Gov't | Cooling Unitary | New | building | 44,415 | 16% | 0.2 | 10 | \$1,317 | 89% | 2.1 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Gov't | Cooling Unitary | Existing | building | 44,415 | 7.1% | 0.07 | 15 | \$197,014 | 25% | 0.0 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Gov't | Cooling Unitary | New | building | 44,415 | 7.1% | 0.07 | 15 | \$197,014 | 35% | 0.0 |
| FE-Penelec | Hi Eff HVAC System Design | No HVAC Design | Gov't | Cooling Unitary | New | building | 44,415 | 7.3% | 0.07 | 10 | \$13,272 | 51% | 0.1 |
| FE-Penelec | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Gov't | Cooling Unitary | Existing | building | 44,415 | 5.0% | 0.05 | 5 | \$225 | 59% | 2.2 |
| FE-Penelec | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Gov't | Cooling Unitary | Existing | building | 44,415 | 0.3% | 0.04 | 5 | \$225 | 51% | 0.2 |
| FE-Penelec | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Gov't | Cooling Unitary | New | building | 44,415 | 0.2% | 0.04 | 5 | \$135 | 51% | 0.3 |
| FE-Penelec | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Gov't | Cooling Unitary | Existing | building | 44,415 | 1.1% | 0.01 | 10 | \$44,351 | 86% | 0.0 |
| FE-Penelec | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Gov't | Cooling Unitary | New | building | 44,415 | 1.1% | 0.01 | 10 | \$44,351 | 86% | 0.0 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) | Gov't | Cooling Unitary | Existing | building | 44,415 | 2.0% | 0.02 | 11 | \$286 | 49% | 1.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|--|--|---------|-----------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Gov't | Cooling Unitary | New | building | 44,415 | 1.7% | 0.02 | 11 | \$146 | 49% | 2.2 |
| FE-Penelec | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Gov't | Cooling Unitary | Early | unit | 658 | 19% | 0.09 | 15 | \$849 | 85% | 0.2 |
| FE-Penelec | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Gov't | Cooling Unitary | New | unit | 665 | 20% | 0.09 | 15 | \$356 | 85% | 0.5 |
| FE-Penelec | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Gov't | Cooling Unitary | ROB | unit | 665 | 20% | 0.09 | 15 | \$356 | 85% | 0.5 |
| FE-Penelec | Re-Commissioning (Existing Construction) | No Re-Commissioning | Gov't | Cooling Unitary | Existing | building | 44,415 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.2 |
| FE-Penelec | Room AC (w/ louvered sides) | Existing efficiency Room AC in Pennsylvania (2000 Federal Standards) | Gov't | Cooling Unitary | Early | ton | 876 | 13% | 0.04 | 9 | \$348 | 82% | 0.2 |
| FE-Penelec | Room AC (w/ louvered sides) | Std Room AC (Code Min. Federal Standards) | Gov't | Cooling Unitary | New | ton | 794 | 4.5% | 0.01 | 9 | \$17 | 82% | 1.2 |
| FE-Penelec | Room AC (w/ louvered sides) | Std Room AC (Code Min. Federal Standards) | Gov't | Cooling Unitary | ROB | ton | 794 | 4.5% | 0.01 | 9 | \$17 | 82% | 1.2 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Gov't | Cooling Unitary | Existing | building | 44,415 | 6.0% | 0.06 | 15 | \$3,285 | 26% | 0.5 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Gov't | Cooling Unitary | New | building | 44,415 | 0.2% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| FE-Penelec | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Gov't | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 1.1 |
| FE-Penelec | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Gov't | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.4 |
| FE-Penelec | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Gov't | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.4 |
| FE-Penelec | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Gov't | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 80% | 0.2 |
| FE-Penelec | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Gov't | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 80% | 0.2 |
| FE-Penelec | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Gov't | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 80% | 0.2 |
| FE-Penelec | LED exterior lighting | 250 Watt Incandescent | Gov't | Ext. Lighting | ROB | measure | 282 | 83% | 0.04 | 15 | \$104 | 89% | 1.6 |
| FE-Penelec | LED exterior lighting | 250 Watt Incandescent | Gov't | Ext. Lighting | ROB | measure | 282 | 83% | 0.04 | 15 | \$104 | 89% | 1.6 |
| FE-Penelec | LED exterior lighting | 250 Watt Incandescent | Gov't | Ext. Lighting | ROB | measure | 282 | 83% | 0.04 | 15 | \$104 | 89% | 1.6 |
| FE-Penelec | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Gov't | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 75% | 0.3 |
| FE-Penelec | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Gov't | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 75% | 0.2 |
| FE-Penelec | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Gov't | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.8 |
| FE-Penelec | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Gov't | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.1 |
| FE-Penelec | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Gov't | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.8 |
| FE-Penelec | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Gov't | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.1 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Gov't | Heat Pump | Existing | building | 4,614 | 6.9% | 0.07 | 6 | \$12,713 | 82% | 0.0 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Gov't | Heat Pump | New | building | 4,614 | 6.9% | 0.07 | 6 | \$12,713 | 82% | 0.0 |
| FE-Penelec | Adding window shade film | No shade film | Gov't | Heat Pump | Existing | building | 4,614 | 3.9% | 0.4 | 10 | \$56 | 12% | 5.7 |
| FE-Penelec | Adding window shade film | No shade film | Gov't | Heat Pump | New | building | 4,614 | 3.9% | 0.4 | 10 | \$56 | 12% | 5.7 |
| FE-Penelec | Adding window shade screen | No shade screen | Gov't | Heat Pump | Existing | building | 4,614 | 0.3% | 0.01 | 10 | \$7.2 | 12% | 1.7 |
| FE-Penelec | Adding window shade screen | No shade screen | Gov't | Heat Pump | New | building | 4,614 | 0.3% | 0.01 | 10 | \$7.2 | 12% | 1.7 |
| FE-Penelec | Automated control system | Manual Controls | Gov't | Heat Pump | Existing | building | 4,614 | 17% | 0.2 | 15 | \$5,051 | 51% | 0.1 |
| FE-Penelec | Automated control system | Manual Controls | Gov't | Heat Pump | New | building | 4,614 | 17% | 0.2 | 15 | \$5,051 | 94% | 0.1 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Gov't | Heat Pump | Existing | building | 4,614 | 3.4% | 0.03 | 15 | \$17,130 | 71% | 0.0 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Gov't | Heat Pump | New | building | 4,614 | 1.1% | 0.01 | 15 | \$16,283 | 94% | 0.0 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Gov't | Heat Pump | Existing | building | 4,614 | 4.0% | 0.04 | 15 | \$37 | 12% | 3.5 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Gov't | Heat Pump | New | building | 4,614 | 4.0% | 0.04 | 15 | \$37 | 6% | 3.5 |
| FE-Penelec | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Gov't | Heat Pump | Early | heat pump | 2,431 | 12% | 0.02 | 15 | \$4,070 | 83% | 0.0 |
| FE-Penelec | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Gov't | Heat Pump | New | heat pump | 2,332 | 7.9% | 0.02 | 15 | \$1,097 | 83% | 0.1 |
| FE-Penelec | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Gov't | Heat Pump | ROB | heat pump | 2,332 | 7.9% | 0.02 | 15 | \$1,097 | 83% | 0.1 |
| FE-Penelec | Facility Commissioning | No Facility Commissioning | Gov't | Heat Pump | New | building | 4,614 | 16% | 0.2 | 10 | \$142,794 | 89% | 0.0 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Gov't | Heat Pump | Existing | building | 4,614 | 7.0% | 0.07 | 15 | \$20,467 | 25% | 0.0 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Gov't | Heat Pump | New | building | 4,614 | 7.0% | 0.07 | 15 | \$20,467 | 35% | 0.0 |
| FE-Penelec | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Gov't | Heat Pump | Early | heat pump | 23,755 | 13% | 0.3 | 15 | \$91,117 | 19% | 0.0 |
| FE-Penelec | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Gov't | Heat Pump | New | heat pump | 23,122 | 11% | 0.2 | 15 | \$33,927 | 19% | 0.0 |
| FE-Penelec | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Gov't | Heat Pump | ROB | heat pump | 23,122 | 11% | 0.2 | 15 | \$33,927 | 19% | 0.0 |
| FE-Penelec | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Gov't | Heat Pump | Early | heat pump | 23,755 | 13% | 0.3 | 15 | \$58,356 | 19% | 0.0 |
| FE-Penelec | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Gov't | Heat Pump | New | heat pump | 23,122 | 11% | 0.2 | 15 | \$1,167 | 19% | 1.3 |
| FE-Penelec | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Gov't | Heat Pump | ROB | heat pump | 23,122 | 11% | 0.2 | 15 | \$1,167 | 19% | 1.3 |
| FE-Penelec | Hi Eff HVAC System Design | No HVAC Design | Gov't | Heat Pump | New | building | 4,614 | 7.3% | 0.07 | 10 | \$1,051,305 | 51% | 0.0 |
| FE-Penelec | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Gov't | Heat Pump | Early | heat pump | 6,273 | 15% | 0.08 | 12 | \$4,298 | 81% | 0.1 |
| FE-Penelec | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Gov't | Heat Pump | New | heat pump | 6,053 | 12% | 0.06 | 12 | \$852 | 81% | 0.4 |
| FE-Penelec | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Gov't | Heat Pump | ROB | heat pump | 6,053 | 12% | 0.06 | 12 | \$852 | 81% | 0.4 |
| FE-Penelec | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Gov't | Heat Pump | Existing | building | 4,614 | 5.0% | 0.02 | 5 | \$90 | 51% | 0.6 |
| FE-Penelec | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Gov't | Heat Pump | New | building | 4,614 | 5.0% | 0.02 | 5 | \$90 | 51% | 0.6 |
| FE-Penelec | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Gov't | Heat Pump | Existing | building | 4,614 | 1.0% | 0.01 | 10 | \$39,486 | 81% | 0.0 |
| FE-Penelec | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Gov't | Heat Pump | New | building | 4,614 | 1.0% | 0.01 | 10 | \$39,486 | 81% | 0.0 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Gov't | Heat Pump | Existing | building | 4,614 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.2 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Gov't | Heat Pump | New | building | 4,614 | 2.1% | 0.02 | 11 | \$146 | 49% | 0.4 |
| FE-Penelec | Re-Commissioning (Existing Construction) | No Re-Commissioning | Gov't | Heat Pump | Existing | building | 4,614 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Gov't | Heat Pump | Existing | building | 4,614 | 6.0% | 0.06 | 15 | \$3,285 | 26% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|---|---------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Gov't | Heat Pump | New | building | 4,614 | 0.2% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| FE-Penelec | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Gov't | Heat Pump | Early | heat pump | 10,309 | 38% | 0.3 | 15 | \$35,347 | 28% | 0.1 |
| FE-Penelec | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Gov't | Heat Pump | New | heat pump | 9,949 | 36% | 0.3 | 15 | \$15,739 | 28% | 0.1 |
| FE-Penelec | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Gov't | Heat Pump | ROB | heat pump | 9,949 | 36% | 0.3 | 15 | \$15,739 | 28% | 0.1 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Gov't | High Bay Lighting | Early | Fixture | 299 | 9.6% | 0.01 | 13 | \$850 | 39% | 0.0 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Gov't | High Bay Lighting | Early | Fixture | 299 | 9.5% | 0.01 | 13 | \$850 | 28% | 0.0 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Gov't | High Bay Lighting | Early | Fixture | 461 | 41% | 0.04 | 13 | \$850 | 36% | 0.1 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Gov't | High Bay Lighting | New | Fixture | 227 | 9.6% | 0.00 | 13 | \$372 | 39% | 0.0 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Gov't | High Bay Lighting | New | Fixture | 211 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Gov't | High Bay Lighting | New | Fixture | 350 | 41% | 0.03 | 13 | \$397 | 36% | 0.2 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Gov't | High Bay Lighting | ROB | Fixture | 299 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.0 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Gov't | High Bay Lighting | ROB | Fixture | 278 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Gov't | High Bay Lighting | ROB | Fixture | 461 | 41% | 0.04 | 13 | \$397 | 36% | 0.3 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Gov't | High Bay Lighting | Early | Fixture | 580 | 19% | 0.02 | 13 | \$851 | 38% | 0.1 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Gov't | High Bay Lighting | Early | Fixture | 587 | 20% | 0.02 | 13 | \$851 | 38% | 0.1 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | Early | Fixture | 1,708 | 73% | 0.2 | 13 | \$851 | 38% | 0.9 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Gov't | High Bay Lighting | New | Fixture | 441 | 19% | 0.02 | 13 | \$372 | 38% | 0.1 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | New | Fixture | 1,298 | 73% | 0.2 | 13 | \$383 | 38% | 1.5 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Gov't | High Bay Lighting | ROB | Fixture | 580 | 19% | 0.02 | 13 | \$372 | 38% | 0.2 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | ROB | Fixture | 1,708 | 73% | 0.2 | 13 | \$383 | 38% | 2.0 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Gov't | High Bay Lighting | Early | Fixture | 580 | 25% | 0.03 | 13 | \$554 | 29% | 0.2 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Gov't | High Bay Lighting | Early | Fixture | 569 | 23% | 0.03 | 13 | \$554 | 28% | 0.1 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | Early | Fixture | 1,708 | 74% | 0.2 | 13 | \$554 | 36% | 1.4 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Gov't | High Bay Lighting | New | Fixture | 441 | 25% | 0.02 | 13 | \$75 | 29% | 0.9 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | New | Fixture | 1,298 | 74% | 0.2 | 13 | \$86 | 36% | 7.1 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Gov't | High Bay Lighting | ROB | Fixture | 580 | 25% | 0.03 | 13 | \$75 | 29% | 1.2 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | ROB | Fixture | 1,708 | 74% | 0.2 | 13 | \$86 | 36% | 9.3 |
| FE-Penelec | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Gov't | High Bay Lighting | Early | Fixture | 151 | 0.2% | 0.00 | 13 | \$835 | 38% | 0.0 |
| FE-Penelec | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Gov't | High Bay Lighting | Early | Fixture | 326 | 54% | 0.03 | 13 | \$835 | 38% | 0.1 |
| FE-Penelec | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Gov't | High Bay Lighting | New | Fixture | 248 | 54% | 0.03 | 13 | \$382 | 38% | 0.2 |
| FE-Penelec | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Gov't | High Bay Lighting | ROB | Fixture | 326 | 54% | 0.03 | 13 | \$382 | 38% | 0.3 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Gov't | High Bay Lighting | Early | Fixture | 739 | 18% | 0.03 | 13 | \$487 | 25% | 0.2 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Gov't | High Bay Lighting | Early | Fixture | 773 | 22% | 0.03 | 13 | \$487 | 28% | 0.2 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | Early | Fixture | 1,708 | 65% | 0.2 | 13 | \$487 | 36% | 1.4 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Gov't | High Bay Lighting | New | Fixture | 562 | 18% | 0.02 | 13 | \$16 | 25% | 4.0 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | New | Fixture | 1,298 | 65% | 0.2 | 13 | \$18 | 36% | 28.6 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Gov't | High Bay Lighting | ROB | Fixture | 739 | 18% | 0.03 | 13 | \$16 | 25% | 5.2 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | ROB | Fixture | 1,708 | 65% | 0.2 | 13 | \$18 | 36% | 37.6 |
| FE-Penelec | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Gov't | High Bay Lighting | Early | Fixture | 739 | 1.5% | 0.00 | 13 | \$557 | 19% | 0.0 |
| FE-Penelec | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Gov't | High Bay Lighting | Early | Fixture | 761 | 4.3% | 0.01 | 13 | \$557 | 19% | 0.0 |
| FE-Penelec | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | Early | Fixture | 1,708 | 57% | 0.2 | 13 | \$557 | 19% | 1.1 |
| FE-Penelec | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Gov't | High Bay Lighting | New | Fixture | 562 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| FE-Penelec | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | New | Fixture | 1,298 | 57% | 0.1 | 13 | \$88 | 19% | 5.3 |
| FE-Penelec | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Gov't | High Bay Lighting | ROB | Fixture | 739 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| FE-Penelec | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | ROB | Fixture | 1,708 | 57% | 0.2 | 13 | \$88 | 19% | 7.0 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Gov't | High Bay Lighting | Early | Fixture | 314 | 29% | 0.01 | 13 | \$492 | 71% | 0.1 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Gov't | High Bay Lighting | Early | Fixture | 262 | 15% | 0.01 | 13 | \$492 | 95% | 0.0 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Gov't | High Bay Lighting | Early | Fixture | 390 | 43% | 0.02 | 13 | \$492 | 95% | 0.2 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Gov't | High Bay Lighting | Early | Fixture | 361 | 38% | 0.02 | 13 | \$492 | 95% | 0.2 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Gov't | High Bay Lighting | New | Fixture | 199 | 15% | 0.00 | 13 | \$25 | 95% | 0.7 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Gov't | High Bay Lighting | New | Fixture | 296 | 43% | 0.02 | 13 | \$51 | 95% | 1.4 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Gov't | High Bay Lighting | ROB | Fixture | 262 | 15% | 0.01 | 13 | \$25 | 95% | 0.9 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Gov't | High Bay Lighting | ROB | Fixture | 390 | 43% | 0.02 | 13 | \$51 | 95% | 1.9 |
| FE-Penelec | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Gov't | High Bay Lighting | Early | lamp | 114 | 16% | 0.00 | 9 | \$7.7 | 99% | 1.1 |
| FE-Penelec | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Gov't | High Bay Lighting | New | lamp | 68 | 13% | 0.00 | 9 | \$1.6 | 91% | 2.4 |
| FE-Penelec | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Gov't | High Bay Lighting | ROB | lamp | 110 | 13% | 0.00 | 9 | \$1.6 | 91% | 3.9 |
| FE-Penelec | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Gov't | High Bay Lighting | Early | Fixture | 1,748 | 23% | 0.08 | 13 | \$613 | 5% | 0.4 |
| FE-Penelec | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Gov't | High Bay Lighting | Early | Fixture | 1,373 | 1.6% | 0.00 | 13 | \$613 | 28% | 0.0 |
| FE-Penelec | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | Early | Fixture | 3,417 | 60% | 0.4 | 13 | \$613 | 18% | 2.1 |
| FE-Penelec | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Gov't | High Bay Lighting | New | Fixture | 1,329 | 23% | 0.06 | 13 | \$96 | 5% | 2.0 |
| FE-Penelec | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Gov't | High Bay Lighting | ROB | Fixture | 1,748 | 23% | 0.08 | 13 | \$96 | 5% | 2.6 |
| FE-Penelec | Auto Off Time Switch | Lighting w/ No Controls | Gov't | High Bay Lighting | Existing | building | 589 | 24% | 0.2 | 8 | \$1,034 | 13% | 0.2 |
| FE-Penelec | Auto Off Time Switch | Lighting w/ No Controls | Gov't | High Bay Lighting | New | building | 589 | 6.9% | 0.07 | 8 | \$1,034 | 0% | 0.1 |
| FE-Penelec | Central Lighting Control System | Lighting w/ No Controls | Gov't | High Bay Lighting | Existing | building | 589 | 38% | 0.4 | 8 | \$1,034 | 13% | 0.3 |
| FE-Penelec | Central Lighting Control System | Lighting w/ No Controls | Gov't | High Bay Lighting | New | building | 589 | 14% | 0.1 | 8 | \$1,034 | 13% | 0.1 |
| FE-Penelec | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Gov't | High Bay Lighting | New | building | 589 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.0 |
| FE-Penelec | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Gov't | High Bay Lighting | New | building | 589 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |
| FE-Penelec | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Gov't | High Bay Lighting | New | building | 589 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| FE-Penelec | Indoor Daylight Sensors | Lighting w/ No Controls | Gov't | High Bay Lighting | Existing | building | 589 | 28% | 0.3 | 8 | \$5,088 | 13% | 0.0 |
| FE-Penelec | Indoor Daylight Sensors | Lighting w/ No Controls | Gov't | High Bay Lighting | New | building | 589 | 4.0% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| FE-Penelec | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Gov't | High Bay Lighting | Early | Fixture | 1,748 | 92% | 0.3 | 13 | \$1,916 | 95% | 0.5 |
| FE-Penelec | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | Early | Fixture | 3,417 | 96% | 0.6 | 13 | \$1,916 | 95% | 1.1 |
| FE-Penelec | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Gov't | High Bay Lighting | New | Fixture | 1,329 | 92% | 0.2 | 13 | \$1,468 | 95% | 0.5 |
| FE-Penelec | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | New | Fixture | 2,597 | 96% | 0.5 | 13 | \$1,149 | 95% | 1.4 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|--|---------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Gov't | High Bay Lighting | ROB | Fixture | 1,748 | 92% | 0.3 | 13 | \$1,468 | 95% | 0.7 |
| FE-Penelec | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | ROB | Fixture | 3,417 | 96% | 0.6 | 13 | \$1,149 | 95% | 1.8 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Gov't | High Bay Lighting | Early | Fixture | 580 | 67% | 0.07 | 13 | \$960 | 95% | 0.3 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Gov't | High Bay Lighting | Early | Fixture | 1,708 | 89% | 0.3 | 13 | \$960 | 95% | 1.0 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Gov't | High Bay Lighting | Early | Fixture | 469 | 59% | 0.05 | 13 | \$960 | 95% | 0.2 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Gov't | High Bay Lighting | New | Fixture | 441 | 67% | 0.06 | 13 | \$480 | 95% | 0.4 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Gov't | High Bay Lighting | New | Fixture | 1,298 | 89% | 0.2 | 13 | \$491 | 95% | 1.5 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Gov't | High Bay Lighting | New | Fixture | 356 | 59% | 0.04 | 13 | \$406 | 95% | 0.3 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Gov't | High Bay Lighting | ROB | Fixture | 580 | 67% | 0.07 | 13 | \$480 | 95% | 0.5 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Gov't | High Bay Lighting | ROB | Fixture | 1,708 | 89% | 0.3 | 13 | \$491 | 95% | 1.9 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Gov't | High Bay Lighting | ROB | Fixture | 469 | 59% | 0.05 | 13 | \$406 | 95% | 0.4 |
| FE-Penelec | Occupancy Sensor | Lighting w/ No Controls | Gov't | High Bay Lighting | Existing | building | 589 | 24% | 0.2 | 8 | \$1,558 | 11% | 0.1 |
| FE-Penelec | Occupancy Sensor | Lighting w/ No Controls | Gov't | High Bay Lighting | New | building | 589 | 6.9% | 0.07 | 8 | \$1,558 | 0% | 0.0 |
| FE-Penelec | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Gov't | High Bay Lighting | Existing | building | 589 | 28% | 0.3 | 8 | \$5,088 | 11% | 0.0 |
| FE-Penelec | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Gov't | High Bay Lighting | New | building | 589 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| FE-Penelec | Time Clock Control | Lighting w/ No Controls | Gov't | High Bay Lighting | Existing | building | 589 | 28% | 0.3 | 8 | \$1,034 | 13% | 0.2 |
| FE-Penelec | Time Clock Control | Lighting w/ No Controls | Gov't | High Bay Lighting | New | building | 589 | 4.1% | 0.04 | 8 | \$1,034 | 0% | 0.0 |
| FE-Penelec | Auto Off Time Switch | Lighting w/ No Controls | Gov't | Lin. Fluor. Lighting | Existing | building | 14,684 | 24% | 0.2 | 8 | \$1,034 | 13% | 1.2 |
| FE-Penelec | Auto Off Time Switch | Lighting w/ No Controls | Gov't | Lin. Fluor. Lighting | New | building | 14,684 | 7.0% | 0.07 | 8 | \$1,034 | 0% | 0.3 |
| FE-Penelec | Central Lighting Control System | Lighting w/ No Controls | Gov't | Lin. Fluor. Lighting | Existing | building | 14,684 | 38% | 0.4 | 8 | \$1,034 | 12% | 1.9 |
| FE-Penelec | Central Lighting Control System | Lighting w/ No Controls | Gov't | Lin. Fluor. Lighting | New | building | 14,684 | 14% | 0.1 | 8 | \$1,034 | 12% | 0.7 |
| FE-Penelec | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Gov't | Lin. Fluor. Lighting | New | building | 14,684 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.0 |
| FE-Penelec | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Gov't | Lin. Fluor. Lighting | New | building | 14,684 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |
| FE-Penelec | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Gov't | Lin. Fluor. Lighting | New | building | 14,684 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| FE-Penelec | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Gov't | Lin. Fluor. Lighting | Early | Lamp | 229 | 38% | 0.01 | 9 | \$7.3 | 94% | 5.2 |
| FE-Penelec | Indoor Daylight Sensors | Lighting w/ No Controls | Gov't | Lin. Fluor. Lighting | Existing | building | 14,684 | 28% | 0.3 | 8 | \$5,088 | 13% | 0.3 |
| FE-Penelec | Indoor Daylight Sensors | Lighting w/ No Controls | Gov't | Lin. Fluor. Lighting | New | building | 14,684 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | Early | Lamp | 38 | 19% | 0.00 | 15 | \$35 | 94% | 0.1 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 40W T12 Lamp, Magnetic Ballast | Gov't | Lin. Fluor. Lighting | Early | Lamp | 83 | 63% | 0.01 | 15 | \$35 | 94% | 1.0 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | Early | Lamp | 46 | 34% | 0.00 | 15 | \$35 | 94% | 0.3 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | Early | Lamp | 45 | 32% | 0.00 | 15 | \$35 | 94% | 0.3 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | New | Lamp | 29 | 19% | 0.00 | 15 | \$28 | 94% | 0.1 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | New | Lamp | 34 | 32% | 0.00 | 15 | \$29 | 94% | 0.3 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | New | Lamp | 35 | 34% | 0.00 | 15 | \$22 | 94% | 0.4 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | New | Lamp | 34 | 32% | 0.00 | 15 | \$29 | 94% | 0.3 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | ROB | Lamp | 38 | 19% | 0.00 | 15 | \$28 | 94% | 0.2 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | ROB | Lamp | 45 | 32% | 0.00 | 15 | \$29 | 94% | 0.4 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | ROB | Lamp | 46 | 34% | 0.00 | 15 | \$22 | 94% | 0.5 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | ROB | Lamp | 45 | 32% | 0.00 | 15 | \$29 | 94% | 0.4 |
| FE-Penelec | Occupancy Sensor | Lighting w/ No Controls | Gov't | Lin. Fluor. Lighting | Existing | building | 14,684 | 24% | 0.2 | 8 | \$1,558 | 12% | 0.8 |
| FE-Penelec | Occupancy Sensor | Lighting w/ No Controls | Gov't | Lin. Fluor. Lighting | New | building | 14,684 | 7.0% | 0.07 | 8 | \$1,558 | 0% | 0.2 |
| FE-Penelec | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Gov't | Lin. Fluor. Lighting | Existing | building | 14,684 | 28% | 0.3 | 8 | \$5,088 | 11% | 0.3 |
| FE-Penelec | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Gov't | Lin. Fluor. Lighting | New | building | 14,684 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 40W T12 w/ Magnetic Ballast | Gov't | Lin. Fluor. Lighting | Early | Lamp | 229 | 54% | 0.02 | 9 | \$9.1 | 94% | 6.0 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | Early | Lamp | 147 | 28% | 0.01 | 9 | \$9.1 | 24% | 2.0 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | Early | Lamp | 142 | 26% | 0.01 | 9 | \$9.1 | 94% | 1.8 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | New | Lamp | 108 | 26% | 0.00 | 9 | \$2.5 | 94% | 4.9 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | New | Lamp | 108 | 26% | 0.00 | 9 | \$2.5 | 94% | 4.9 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | New | Lamp | 112 | 28% | 0.00 | 9 | \$2.5 | 24% | 5.5 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | New | Lamp | 108 | 26% | 0.00 | 9 | \$2.5 | 94% | 4.9 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | ROB | Lamp | 142 | 26% | 0.01 | 9 | \$2.5 | 94% | 6.4 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | ROB | Lamp | 142 | 26% | 0.01 | 9 | \$2.5 | 94% | 6.4 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | ROB | Lamp | 147 | 28% | 0.01 | 9 | \$2.5 | 24% | 7.2 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | ROB | Lamp | 142 | 26% | 0.01 | 9 | \$2.5 | 94% | 6.4 |
| FE-Penelec | T8 Lamp (any length) Electronic Ballast | Standard T12 lamp (any length) | Gov't | Lin. Fluor. Lighting | Early | Lamp | 270 | 42% | 0.02 | 9 | \$14 | 94% | 3.6 |
| FE-Penelec | Time Clock Control | Lighting w/ No Controls | Gov't | Lin. Fluor. Lighting | Existing | building | 14,684 | 28% | 0.3 | 8 | \$1,034 | 14% | 1.4 |
| FE-Penelec | Time Clock Control | Lighting w/ No Controls | Gov't | Lin. Fluor. Lighting | New | building | 14,684 | 4.1% | 0.04 | 8 | \$1,034 | 0% | 0.2 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | Early | motor | 3,510 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | Early | motor | 3,510 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | Early | motor | 3,510 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | Early | motor | 3,510 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | Early | motor | 3,510 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | New | motor | 3,403 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|--|---------|---------|---------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | ROB | motor | 183,769 | 0.5% | 0.1 | 15 | \$431 | 70% | 1.4 |
| FE-Penelec | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | ROB | motor | 183,769 | 0.5% | 0.1 | 15 | \$431 | 70% | 1.5 |
| FE-Penelec | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | ROB | motor | 183,769 | 0.5% | 0.1 | 15 | \$431 | 70% | 1.4 |
| FE-Penelec | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | Early | motor | 24,568 | 2.9% | 0.09 | 15 | \$802 | 83% | 0.6 |
| FE-Penelec | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | Early | motor | 24,568 | 2.9% | 0.09 | 15 | \$802 | 83% | 0.6 |
| FE-Penelec | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | Early | motor | 24,568 | 2.9% | 0.09 | 15 | \$802 | 83% | 0.6 |
| FE-Penelec | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | Early | motor | 24,568 | 2.9% | 0.1 | 15 | \$802 | 83% | 0.6 |
| FE-Penelec | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | Early | motor | 24,568 | 2.9% | 0.09 | 15 | \$802 | 83% | 0.6 |
| FE-Penelec | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | New | motor | 23,981 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.7 |
| FE-Penelec | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | New | motor | 23,981 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.7 |
| FE-Penelec | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | New | motor | 23,981 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.7 |
| FE-Penelec | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | New | motor | 23,981 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.7 |
| FE-Penelec | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | ROB | motor | 23,981 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.7 |
| FE-Penelec | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | ROB | motor | 23,981 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.7 |
| FE-Penelec | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | ROB | motor | 23,981 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.7 |
| FE-Penelec | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | ROB | motor | 23,981 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.7 |
| FE-Penelec | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | ROB | motor | 23,981 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.7 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | Early | motor | 231,621 | 1.3% | 0.4 | 15 | \$3,955 | 61% | 0.5 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | Early | motor | 231,621 | 1.3% | 0.4 | 15 | \$3,955 | 61% | 0.5 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | Early | motor | 231,621 | 1.3% | 0.4 | 15 | \$3,955 | 61% | 0.5 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | Early | motor | 231,621 | 1.3% | 0.5 | 15 | \$3,955 | 61% | 0.5 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | Early | motor | 231,621 | 1.3% | 0.4 | 15 | \$3,955 | 61% | 0.5 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | New | motor | 229,712 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.4 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | New | motor | 229,712 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.4 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | New | motor | 229,712 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.4 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | New | motor | 229,712 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.4 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | ROB | motor | 229,712 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.4 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | ROB | motor | 229,712 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.4 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | ROB | motor | 229,712 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.4 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | ROB | motor | 229,712 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.4 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | ROB | motor | 229,712 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.4 |
| FE-Penelec | ASD HVAC Fan | Std. HVAC Fan | Gov't | Motors | New | measure | 18,873 | 9.1% | 0.2 | 15 | \$55,530 | 85% | 0.0 |
| FE-Penelec | ASD HVAC Fan | Std. HVAC Fan | Gov't | Motors | ROB | measure | 18,873 | 9.1% | 0.2 | 15 | \$55,530 | 85% | 0.0 |
| FE-Penelec | CO sensors for parking garage exhaust fans | No CO Sensors | Gov't | Motors | New | building | 3,209 | 28% | 0.3 | 8 | \$277 | 4% | 1.6 |
| FE-Penelec | demand controlled ventilation | Absence of Demand Controlled Ventilation | Gov't | Motors | Early | measure | 18,873 | 5.9% | 0.1 | 10 | \$127,693 | 92% | 0.0 |
| FE-Penelec | demand controlled ventilation | Office building thermostat | Gov't | Motors | New | measure | 18,873 | 5.9% | 0.1 | 10 | \$95,339 | 92% | 0.0 |
| FE-Penelec | demand controlled ventilation | Office building thermostat | Gov't | Motors | ROB | measure | 18,873 | 5.9% | 0.1 | 10 | \$95,339 | 92% | 0.0 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Gov't | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 21.9 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Gov't | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 22.3 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Gov't | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 22.8 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Gov't | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 23.2 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Gov't | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 23.7 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Gov't | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 21.7 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Gov't | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 22.1 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Gov't | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 22.9 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Gov't | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 23.0 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Gov't | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 23.8 |
| FE-Penelec | Energy Efficient Laboratory Fume Hood | Std. Fume Hood | Gov't | Motors | New | measure | 22,500 | 1.1% | 0.03 | 15 | \$111 | 17% | 1.3 |
| FE-Penelec | Energy Efficient Laboratory Fume Hood | Std. Fume Hood | Gov't | Motors | ROB | measure | 22,500 | 1.1% | 0.03 | 15 | \$111 | 17% | 1.3 |
| FE-Penelec | Escalator Motor Controller | Constant power control | Gov't | Motors | New | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 45% | 5.9 |
| FE-Penelec | Escalator Motor Controller | Constant power control | Gov't | Motors | ROB | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 45% | 5.9 |
| FE-Penelec | Fan Motor - correct sizing | Incorrect Fan Motor Sizing | Gov't | Motors | ROB | measure | 18,873 | 2.9% | 0.06 | 15 | \$36,818 | 92% | 0.0 |
| FE-Penelec | Variable Speed Drive Control, 15HP | Existing Motors w/out VSD Drive | Gov't | Motors | Early | motor | 47,962 | 70% | 4.9 | 15 | \$731 | 86% | 30.7 |
| FE-Penelec | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Gov't | Motors | New | motor | 46,930 | 72% | 4.9 | 15 | \$731 | 86% | 30.7 |
| FE-Penelec | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Gov't | Motors | ROB | motor | 46,930 | 72% | 4.9 | 15 | \$731 | 86% | 30.7 |
| FE-Penelec | Variable Speed Drive Control, 40HP | Existing Motors w/out VSD Drive | Gov't | Motors | Early | motor | 125,148 | 71% | 13.0 | 15 | \$4,666 | 86% | 12.7 |
| FE-Penelec | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Gov't | Motors | New | motor | 123,685 | 72% | 13.0 | 15 | \$4,666 | 86% | 12.7 |
| FE-Penelec | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Gov't | Motors | ROB | motor | 123,685 | 72% | 13.0 | 15 | \$4,666 | 86% | 12.7 |
| FE-Penelec | Variable Speed Drive Control, 5HP | Existing Motors w/out VFD Drive | Gov't | Motors | Early | motor | 16,627 | 70% | 1.7 | 15 | \$2,243 | 86% | 3.5 |
| FE-Penelec | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Gov't | Motors | New | motor | 16,255 | 72% | 1.7 | 15 | \$2,243 | 86% | 3.5 |
| FE-Penelec | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Gov't | Motors | ROB | motor | 16,255 | 72% | 1.7 | 15 | \$2,243 | 86% | 3.5 |
| FE-Penelec | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Gov't | Motors | Early | motor | 16,851 | 6.7% | 0.1 | 15 | \$268 | 13% | 2.6 |
| FE-Penelec | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Gov't | Motors | New | motor | 16,851 | 6.7% | 0.1 | 15 | \$268 | 13% | 2.6 |
| FE-Penelec | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Gov't | Motors | ROB | motor | 16,851 | 6.7% | 0.1 | 15 | \$268 | 13% | 2.6 |
| FE-Penelec | VFD on Chilled Water Pump | Motor w/out VFD Drive | Gov't | Motors | Early | motor | 15,151 | 54% | 1.1 | 15 | \$2,903 | 86% | 1.8 |
| FE-Penelec | VFD on Chilled Water Pump | Motor w/out VFD Drive | Gov't | Motors | New | motor | 14,867 | 55% | 1.1 | 15 | \$2,843 | 86% | 1.8 |
| FE-Penelec | VFD on Chilled Water Pump | Motor w/out VFD Drive | Gov't | Motors | ROB | motor | 14,867 | 55% | 1.1 | 15 | \$2,843 | 86% | 1.8 |
| FE-Penelec | VFD on Condenser Water Pump | Motor w/out VFD Drive | Gov't | Motors | Early | motor | 15,040 | 32% | 0.6 | 15 | \$2,903 | 86% | 1.1 |
| FE-Penelec | VFD on Condenser Water Pump | Motor w/out VFD Drive | Gov't | Motors | New | motor | 14,759 | 33% | 0.6 | 15 | \$2,843 | 86% | 1.1 |
| FE-Penelec | VFD on Condenser Water Pump | Motor w/out VFD Drive | Gov't | Motors | ROB | motor | 14,759 | 33% | 0.6 | 15 | \$2,843 | 86% | 1.1 |
| FE-Penelec | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Gov't | Motors | Early | motor | 31,171 | 56% | 2.3 | 15 | \$2,903 | 86% | 3.8 |
| FE-Penelec | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Gov't | Motors | New | motor | 30,588 | 57% | 2.3 | 15 | \$2,843 | 86% | 3.8 |
| FE-Penelec | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Gov't | Motors | ROB | motor | 30,588 | 57% | 2.3 | 15 | \$2,843 | 86% | 3.8 |
| FE-Penelec | VFD on HVAC Fan | Motor w/out VFD | Gov't | Motors | Early | motor | 15,151 | 70% | 1.6 | 15 | \$2,903 | 86% | 2.4 |
| FE-Penelec | VFD on HVAC Fan | Motor w/out VFD | Gov't | Motors | New | motor | 14,867 | 72% | 1.6 | 15 | \$2,843 | 86% | 2.5 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|--|---------|---------------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | VFD on HVAC Fan | Motor w/out VFD | Gov't | Motors | ROB | motor | 14,867 | 72% | 1.6 | 15 | \$2,843 | 86% | 2.5 |
| FE-Penelec | Elevators | Std. Eff Elevator | Gov't | Other | ROB | measure | 89,016 | 1.5% | 0.05 | 15 | \$116 | 63% | 6.3 |
| FE-Penelec | Variable Speed Drives on Process Equipment | Constant speed control | Gov't | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 10.6 |
| FE-Penelec | Variable Speed Drives on Process Equipment | Constant speed control | Gov't | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 10.6 |
| FE-Penelec | Auto Off Time Switch | Lighting w/ No Controls | Gov't | Other Int. Lighting | Existing | building | 5,643 | 24% | 0.2 | 8 | \$1,034 | 13% | 0.5 |
| FE-Penelec | Auto Off Time Switch | Lighting w/ No Controls | Gov't | Other Int. Lighting | New | building | 5,643 | 7.0% | 0.07 | 8 | \$1,034 | 0% | 0.2 |
| FE-Penelec | Central Lighting Control System | Lighting w/ No Controls | Gov't | Other Int. Lighting | Existing | building | 5,643 | 38% | 0.4 | 8 | \$1,034 | 13% | 0.9 |
| FE-Penelec | Central Lighting Control System | Lighting w/ No Controls | Gov't | Other Int. Lighting | New | building | 5,643 | 14% | 0.1 | 8 | \$1,034 | 13% | 0.3 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 40W Incandescent Bulb | Gov't | Other Int. Lighting | Early | lamp | 87 | 87% | 0.01 | 15 | \$30 | 14% | 1.8 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Gov't | Other Int. Lighting | Early | lamp | 62 | 81% | 0.01 | 15 | \$30 | 11% | 1.2 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Gov't | Other Int. Lighting | New | lamp | 47 | 81% | 0.01 | 15 | \$21 | 14% | 1.3 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Gov't | Other Int. Lighting | New | lamp | 47 | 81% | 0.01 | 15 | \$23 | 14% | 1.2 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Gov't | Other Int. Lighting | New | lamp | 47 | 81% | 0.01 | 15 | \$22 | 11% | 1.2 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Gov't | Other Int. Lighting | ROB | lamp | 62 | 81% | 0.01 | 15 | \$21 | 14% | 1.7 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Gov't | Other Int. Lighting | ROB | lamp | 62 | 81% | 0.01 | 15 | \$23 | 14% | 1.6 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Gov't | Other Int. Lighting | ROB | lamp | 62 | 81% | 0.01 | 15 | \$22 | 11% | 1.6 |
| FE-Penelec | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Gov't | Other Int. Lighting | Early | lamp | 87 | 75% | 0.01 | 7 | \$73 | 39% | 0.3 |
| FE-Penelec | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Gov't | Other Int. Lighting | New | fixture | 95 | 65% | 0.01 | 13 | \$29 | 46% | 1.3 |
| FE-Penelec | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Gov't | Other Int. Lighting | New | lamp | 47 | 65% | 0.01 | 7 | \$29 | 46% | 0.4 |
| FE-Penelec | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Gov't | Other Int. Lighting | ROB | fixture | 125 | 65% | 0.01 | 13 | \$29 | 39% | 1.7 |
| FE-Penelec | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Gov't | Other Int. Lighting | ROB | lamp | 62 | 65% | 0.01 | 7 | \$29 | 39% | 0.5 |
| FE-Penelec | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Gov't | Other Int. Lighting | Early | lamp | 87 | 75% | 0.01 | 7 | \$3.2 | 24% | 7.6 |
| FE-Penelec | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Gov't | Other Int. Lighting | New | lamp | 47 | 65% | 0.01 | 7 | \$1.8 | 24% | 6.5 |
| FE-Penelec | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Gov't | Other Int. Lighting | ROB | lamp | 62 | 65% | 0.01 | 7 | \$1.8 | 24% | 8.5 |
| FE-Penelec | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Gov't | Other Int. Lighting | ROB | lamp | 62 | 65% | 0.01 | 7 | \$1.8 | 24% | 8.5 |
| FE-Penelec | Exit Sign Retrofit: CFL replacing Incandescent | One 23W Single Sided Incandescent Exit Sign | Gov't | Other Int. Lighting | Early | exit sign | 139 | 42% | 0.01 | 15 | \$48 | 22% | 0.8 |
| FE-Penelec | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Gov't | Other Int. Lighting | New | building | 5,643 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.0 |
| FE-Penelec | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Gov't | Other Int. Lighting | New | building | 5,643 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |
| FE-Penelec | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Gov't | Other Int. Lighting | New | building | 5,643 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| FE-Penelec | Indoor Daylight Sensors | Lighting w/ No Controls | Gov't | Other Int. Lighting | Existing | building | 5,643 | 28% | 0.3 | 8 | \$5,088 | 13% | 0.1 |
| FE-Penelec | Indoor Daylight Sensors | Lighting w/ No Controls | Gov't | Other Int. Lighting | New | building | 5,643 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| FE-Penelec | LED Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Gov't | Other Int. Lighting | Early | sign | 153 | 87% | 0.02 | 15 | \$48 | 16% | 1.8 |
| FE-Penelec | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Gov't | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 2.0 |
| FE-Penelec | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Gov't | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 2.0 |
| FE-Penelec | LED Task Lighting/Screw-In | 1 15W CFL bulb | Gov't | Other Int. Lighting | Early | lamp | 22 | 33% | 0.00 | 15 | \$9.6 | 24% | 0.5 |
| FE-Penelec | LED Task Lighting/Screw-In | 1 60W Incandescent Bulb | Gov't | Other Int. Lighting | Early | lamp | 89 | 83% | 0.01 | 15 | \$9.6 | 24% | 5.4 |
| FE-Penelec | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Gov't | Other Int. Lighting | New | lamp | 49 | 77% | 0.01 | 15 | \$7.9 | 24% | 3.3 |
| FE-Penelec | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Gov't | Other Int. Lighting | New | lamp | 49 | 77% | 0.01 | 15 | \$7.9 | 24% | 3.3 |
| FE-Penelec | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Gov't | Other Int. Lighting | ROB | lamp | 64 | 77% | 0.01 | 15 | \$7.9 | 24% | 4.3 |
| FE-Penelec | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Gov't | Other Int. Lighting | ROB | lamp | 64 | 77% | 0.01 | 15 | \$7.9 | 24% | 4.3 |
| FE-Penelec | Occupancy Sensor | Lighting w/ No Controls | Gov't | Other Int. Lighting | Existing | building | 5,643 | 24% | 0.2 | 8 | \$1,558 | 11% | 0.4 |
| FE-Penelec | Occupancy Sensor | Lighting w/ No Controls | Gov't | Other Int. Lighting | New | building | 5,643 | 7.0% | 0.07 | 8 | \$1,558 | 0% | 0.1 |
| FE-Penelec | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Gov't | Other Int. Lighting | Existing | building | 5,643 | 28% | 0.3 | 8 | \$5,088 | 11% | 0.1 |
| FE-Penelec | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Gov't | Other Int. Lighting | New | building | 5,643 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| FE-Penelec | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Gov't | Other Int. Lighting | Early | exit sign | 139 | 100% | 0.02 | 15 | \$173 | 26% | 0.5 |
| FE-Penelec | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Gov't | Other Int. Lighting | New | exit sign | 80 | 100% | 0.01 | 15 | \$148 | 31% | 0.4 |
| FE-Penelec | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Gov't | Other Int. Lighting | ROB | exit sign | 80 | 100% | 0.01 | 15 | \$148 | 26% | 0.4 |
| FE-Penelec | Time Clock Control | Lighting w/ No Controls | Gov't | Other Int. Lighting | Existing | building | 5,643 | 28% | 0.3 | 8 | \$1,034 | 13% | 0.6 |
| FE-Penelec | Time Clock Control | Lighting w/ No Controls | Gov't | Other Int. Lighting | New | building | 5,643 | 4.1% | 0.04 | 8 | \$1,034 | 0% | 0.1 |
| FE-Penelec | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Gov't | Plug Load | Existing | building | 1,334 | 46% | 0.5 | 5 | \$189 | 4% | 1.6 |
| FE-Penelec | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Gov't | Plug Load | New | building | 1,334 | 46% | 0.5 | 5 | \$189 | 4% | 1.6 |
| FE-Penelec | Data Center - Server/Storage Consolidation | No Consolidation | Gov't | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penelec | Data Center - Server/Storage Consolidation | No Consolidation | Gov't | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penelec | Data Center - Server/Storage Virtualization | No Virtualization | Gov't | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penelec | Data Center - Server/Storage Virtualization | No Virtualization | Gov't | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penelec | Energy Star - Scanners | Std Scanner | Gov't | Plug Load | New | measure | 68 | 3.8% | 0.04 | 4 | \$130 | 7% | 0.1 |
| FE-Penelec | Energy Star - Scanners | Std Scanner | Gov't | Plug Load | ROB | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| FE-Penelec | Energy Star Battery Charging System (for small cordless products) | Std. Battery Charging System | Gov't | Plug Load | ROB | measure | 593 | 2.3% | 0.5 | 5 | \$65 | 4% | 3.1 |
| FE-Penelec | Energy Star Dishwasher | Existing Dishwasher units | Gov't | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,550 | 1% | 1.0 |
| FE-Penelec | Energy Star Dishwasher | Standard Dishwasher unit | Gov't | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,003 | 1% | 3.5 |
| FE-Penelec | Energy Star Dishwasher | Standard Dishwasher unit | Gov't | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,003 | 1% | 3.5 |
| FE-Penelec | Energy Star External Power Adapter | Std. Power Adapter | Gov't | Plug Load | New | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| FE-Penelec | Energy Star External Power Adapter | Std. Power Adapter | Gov't | Plug Load | ROB | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| FE-Penelec | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Gov't | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 17% | 0.2 |
| FE-Penelec | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Gov't | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.0 |
| FE-Penelec | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Gov't | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.0 |
| FE-Penelec | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Gov't | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 9% | 0.8 |
| FE-Penelec | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Gov't | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.7 |
| FE-Penelec | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Gov't | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.7 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|---|---------|---------------|----------|-------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | ENERGY STAR® Copiers | 10% Less Efficient Copier | Gov't | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 18% | 0.0 |
| FE-Penelec | ENERGY STAR® Copiers | One Conventional Copier | Gov't | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| FE-Penelec | ENERGY STAR® Copiers | One Conventional Copier | Gov't | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| FE-Penelec | ENERGY STAR® desktop | Standard computer | Gov't | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 69% | 0.1 |
| FE-Penelec | ENERGY STAR® desktop | Standard computer | Gov't | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.3 |
| FE-Penelec | ENERGY STAR® desktop | Standard computer | Gov't | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.3 |
| FE-Penelec | ENERGY STAR® Fax | 10% Less Efficient Fax | Gov't | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 15% | 0.0 |
| FE-Penelec | ENERGY STAR® Fax | One Conventional Fax | Gov't | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| FE-Penelec | ENERGY STAR® Fax | One Conventional Fax | Gov't | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| FE-Penelec | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Gov't | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 70% | 0.0 |
| FE-Penelec | ENERGY STAR® Monitors | One Conventional Monitor | Gov't | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| FE-Penelec | ENERGY STAR® Monitors | One Conventional Monitor | Gov't | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| FE-Penelec | ENERGY STAR® Printers | 10% Less Efficient Printer | Gov't | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 44% | 0.0 |
| FE-Penelec | ENERGY STAR® Printers | One Conventional Printer | Gov't | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| FE-Penelec | ENERGY STAR® Printers | One Conventional Printer | Gov't | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| FE-Penelec | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Gov't | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 43% | 0.1 |
| FE-Penelec | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Gov't | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.7 |
| FE-Penelec | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Gov't | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.7 |
| FE-Penelec | ENERGY STAR® Televisions | 10% Less Efficient Television | Gov't | Plug Load | Early | Unit | 111 | 38% | 0.01 | 6 | \$672 | 40% | 0.0 |
| FE-Penelec | ENERGY STAR® Televisions | One Conventional Television | Gov't | Plug Load | New | Unit | 101 | 32% | 0.01 | 6 | \$206 | 40% | 0.0 |
| FE-Penelec | ENERGY STAR® Televisions | One Conventional Television | Gov't | Plug Load | ROB | Unit | 101 | 32% | 0.01 | 6 | \$206 | 40% | 0.0 |
| FE-Penelec | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Gov't | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 24% | 0.3 |
| FE-Penelec | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Gov't | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.6 |
| FE-Penelec | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Gov't | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.6 |
| FE-Penelec | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Gov't | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.3 |
| FE-Penelec | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Gov't | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.3 |
| FE-Penelec | Network PC Power Management | No PC Power Management | Gov't | Plug Load | Existing | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 15.4 |
| FE-Penelec | Network PC Power Management | No PC Power Management | Gov't | Plug Load | New | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 15.4 |
| FE-Penelec | Smart Strip Plug Outlets | Standard plug strip/outlet | Gov't | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.4 |
| FE-Penelec | Smart Strip Plug Outlets | Standard plug strip/outlet | Gov't | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.4 |
| FE-Penelec | Smart Strip Plug Outlets | Standard plug strip/outlet | Gov't | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Penelec | Smart Strip Plug Outlets | Standard plug strip/outlet | Gov't | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Penelec | Smart Strip Plug Outlets | Standard plug strip/outlet | Gov't | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Penelec | Smart Strip Plug Outlets | Standard plug strip/outlet | Gov't | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Penelec | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Gov't | Plug Load | Existing | building | 1,334 | 46% | 0.5 | 5 | \$180 | 3% | 1.7 |
| FE-Penelec | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Gov't | Plug Load | New | building | 1,334 | 46% | 0.5 | 5 | \$180 | 3% | 1.7 |
| FE-Penelec | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Gov't | Refrigeration | Existing | building | 700 | 1.1% | 0.01 | 12 | \$70 | 11% | 0.2 |
| FE-Penelec | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Gov't | Refrigeration | New | building | 700 | 1.1% | 0.01 | 12 | \$70 | 11% | 0.2 |
| FE-Penelec | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Gov't | Refrigeration | Existing | building | 700 | 7.0% | 0.07 | 12 | \$70 | 11% | 1.1 |
| FE-Penelec | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Gov't | Refrigeration | New | building | 700 | 7.0% | 0.07 | 12 | \$70 | 11% | 1.1 |
| FE-Penelec | Auto Closer on Refrigerator Door | Door w/out Autocloser | Gov't | Refrigeration | Existing | building | 3,602 | 27% | 0.3 | 8 | \$747 | 40% | 0.6 |
| FE-Penelec | Auto Closer on Refrigerator Door | Door w/out Autocloser | Gov't | Refrigeration | Existing | building | 5,403 | 15% | 0.2 | 8 | \$763 | 40% | 0.4 |
| FE-Penelec | Auto Closer on Refrigerator Door | Door w/out Autocloser | Gov't | Refrigeration | New | building | 3,602 | 27% | 0.3 | 8 | \$747 | 40% | 0.6 |
| FE-Penelec | Auto Closer on Refrigerator Door | Door w/out Autocloser | Gov't | Refrigeration | New | building | 5,403 | 15% | 0.2 | 8 | \$763 | 40% | 0.4 |
| FE-Penelec | Demand Hot Gas Defrost | Base Refrigeration System | Gov't | Refrigeration | Existing | measure | 700 | 3.0% | 0.03 | 10 | \$1,288 | 0% | 0.0 |
| FE-Penelec | Demand Hot Gas Defrost | Base Refrigeration System | Gov't | Refrigeration | New | measure | 700 | 3.0% | 0.03 | 10 | \$1,288 | 0% | 0.0 |
| FE-Penelec | Door Gasket- Freezer | Door w/out Gasket | Gov't | Refrigeration | Existing | building | 3,602 | 15% | 0.1 | 4 | \$77 | 29% | 1.8 |
| FE-Penelec | Door Gasket- Freezer | Door w/out Gasket | Gov't | Refrigeration | New | building | 3,602 | 15% | 0.1 | 4 | \$77 | 29% | 1.8 |
| FE-Penelec | Door Gasket- Refrigerator | Door w/out Gasket | Gov't | Refrigeration | Existing | building | 5,403 | 4.8% | 0.05 | 4 | \$105 | 45% | 0.5 |
| FE-Penelec | Door Gasket- Refrigerator | Door w/out Gasket | Gov't | Refrigeration | New | building | 5,403 | 4.8% | 0.05 | 4 | \$105 | 45% | 0.5 |
| FE-Penelec | eCube | Refrigeration unit w/out eCube | Gov't | Refrigeration | Existing | building | 5,403 | 15% | 0.2 | 15 | \$504 | 57% | 1.1 |
| FE-Penelec | eCube | Refrigeration unit w/out eCube | Gov't | Refrigeration | New | building | 5,403 | 15% | 0.2 | 15 | \$504 | 57% | 1.1 |
| FE-Penelec | Efficient compressor motor | Base Refrigeration System - Grocery | Gov't | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.6 |
| FE-Penelec | Efficient compressor motor | Base Refrigeration System - Grocery | Gov't | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.6 |
| FE-Penelec | Efficient compressor motor | Base Refrigeration System - Grocery | Gov't | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.6 |
| FE-Penelec | Efficient compressor motor | Base Refrigeration System - Grocery | Gov't | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.6 |
| FE-Penelec | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Gov't | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.5 |
| FE-Penelec | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Gov't | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| FE-Penelec | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Gov't | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| FE-Penelec | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Gov't | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.3 |
| FE-Penelec | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Gov't | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.7 |
| FE-Penelec | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Gov't | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.7 |
| FE-Penelec | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Gov't | Refrigeration | Existing | building | 5,403 | 1.7% | 0.02 | 10 | \$369 | 77% | 0.1 |
| FE-Penelec | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Gov't | Refrigeration | New | building | 5,403 | 1.7% | 0.02 | 10 | \$369 | 77% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|--|--|---------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Floating head pressure controller | System w/out FHPC | Gov't | Refrigeration | Existing | building | 3,602 | 6.4% | 0.03 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penelec | Floating head pressure controller | System w/out FHPC | Gov't | Refrigeration | Existing | building | 700 | 13% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penelec | Floating head pressure controller | System w/out FHPC | Gov't | Refrigeration | Existing | building | 5,403 | 1.5% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penelec | Floating head pressure controller | System w/out FHPC | Gov't | Refrigeration | New | building | 3,602 | 6.4% | 0.03 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penelec | Floating head pressure controller | System w/out FHPC | Gov't | Refrigeration | New | building | 700 | 13% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penelec | Floating head pressure controller | System w/out FHPC | Gov't | Refrigeration | New | building | 5,403 | 1.5% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penelec | High Efficiency Commercial Freezer | Std. Commercial Freezer | Gov't | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 86% | 0.3 |
| FE-Penelec | High Efficiency Commercial Freezer | Std. Commercial Freezer | Gov't | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 3.8 |
| FE-Penelec | High Efficiency Commercial Freezer | Std. Commercial Freezer | Gov't | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 3.8 |
| FE-Penelec | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Gov't | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 2% | 0.1 |
| FE-Penelec | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Gov't | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.8 |
| FE-Penelec | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Gov't | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.8 |
| FE-Penelec | High Efficiency Ice Maker | Existing Standard Efficiency Ice Maker in Pennsylvania | Gov't | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 73% | 0.1 |
| FE-Penelec | High Efficiency Ice Maker | Standard code minimum Ice Maker | Gov't | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| FE-Penelec | High Efficiency Ice Maker | Standard code minimum Ice Maker | Gov't | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| FE-Penelec | High Efficiency Ice Making Head | Standard Ice Making Head | Gov't | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.7 |
| FE-Penelec | High Efficiency Ice Making Head | Standard Ice Making Head | Gov't | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.7 |
| FE-Penelec | High R-Value Glass Doors | Base Refrigeration System - Grocery | Gov't | Refrigeration | Existing | building | 700 | 0.7% | 0.01 | 10 | \$14 | 0% | 0.5 |
| FE-Penelec | High R-Value Glass Doors | Base Refrigeration System - Grocery | Gov't | Refrigeration | New | building | 700 | 0.7% | 0.01 | 10 | \$14 | 0% | 0.5 |
| FE-Penelec | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Gov't | Refrigeration | Early | Fixture | 373 | 56% | 0.01 | 8 | \$448 | 47% | 0.1 |
| FE-Penelec | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Gov't | Refrigeration | New | Fixture | 291 | 44% | 0.00 | 8 | \$139 | 47% | 0.3 |
| FE-Penelec | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Gov't | Refrigeration | ROB | Fixture | 291 | 44% | 0.00 | 8 | \$139 | 47% | 0.3 |
| FE-Penelec | No-heat glass doors | Standard low-temp reach-in | Gov't | Refrigeration | Existing | building | 700 | 20% | 0.2 | 10 | \$1,322 | 8% | 0.1 |
| FE-Penelec | No-heat glass doors | Standard low-temp reach-in | Gov't | Refrigeration | New | building | 700 | 20% | 0.2 | 10 | \$1,322 | 8% | 0.1 |
| FE-Penelec | Quick acting freezer doors | Std. Freezer Doors | Gov't | Refrigeration | Existing | building | 3,602 | 13% | 0.1 | 10 | \$800 | 56% | 0.3 |
| FE-Penelec | Quick acting freezer doors | Std. Freezer Doors | Gov't | Refrigeration | New | building | 3,602 | 13% | 0.1 | 10 | \$800 | 56% | 0.3 |
| FE-Penelec | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Gov't | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 30% | 0.4 |
| FE-Penelec | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Gov't | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.5 |
| FE-Penelec | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Gov't | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.5 |
| FE-Penelec | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 30% | 1.6 |
| FE-Penelec | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 2.8 |
| FE-Penelec | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 2.8 |
| FE-Penelec | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 30% | 1.6 |
| FE-Penelec | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 3.8 |
| FE-Penelec | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 3.8 |
| FE-Penelec | Refrigeration Commissioning | Non-commissioned refrigeration system | Gov't | Refrigeration | Existing | building | 10,006 | 9.5% | 0.10 | 3 | \$3,613 | 85% | 0.0 |
| FE-Penelec | Refrigeration Commissioning | Non-commissioned refrigeration system | Gov't | Refrigeration | New | building | 10,006 | 9.5% | 0.10 | 3 | \$3,613 | 85% | 0.0 |
| FE-Penelec | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Gov't | Refrigeration | Existing | building | 3,602 | 35% | 0.3 | 4 | \$93 | 22% | 3.4 |
| FE-Penelec | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Gov't | Refrigeration | Existing | building | 5,403 | 6.8% | 0.07 | 4 | \$128 | 22% | 0.6 |
| FE-Penelec | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Gov't | Refrigeration | New | building | 3,602 | 35% | 0.3 | 4 | \$93 | 22% | 3.4 |
| FE-Penelec | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Gov't | Refrigeration | New | building | 5,403 | 6.8% | 0.07 | 4 | \$128 | 22% | 0.6 |
| FE-Penelec | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Gov't | Refrigeration | Existing | building | 3,602 | 5.9% | 0.06 | 11 | \$119 | 79% | 1.0 |
| FE-Penelec | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Gov't | Refrigeration | New | building | 3,602 | 5.9% | 0.06 | 11 | \$119 | 79% | 1.0 |
| FE-Penelec | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Gov't | Refrigeration | Existing | building | 5,403 | 4.5% | 0.05 | 11 | \$119 | 79% | 1.1 |
| FE-Penelec | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Gov't | Refrigeration | New | building | 5,403 | 4.5% | 0.05 | 11 | \$119 | 79% | 1.1 |
| FE-Penelec | Vertical Night Covers | Display cases w/out night covers-High Temperature | Gov't | Refrigeration | Existing | building | 700 | 0.6% | 0.01 | 5 | \$52 | 9% | 0.1 |
| FE-Penelec | Vertical Night Covers | Display cases w/out night covers-High Temperature | Gov't | Refrigeration | New | building | 700 | 0.6% | 0.01 | 5 | \$52 | 9% | 0.1 |
| FE-Penelec | VSD Controlled Compressor | Compressor w/out VSD | Gov't | Refrigeration | Early | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |
| FE-Penelec | VSD Controlled Compressor | Compressor w/out VSD | Gov't | Refrigeration | New | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |
| FE-Penelec | VSD Controlled Compressor | Compressor w/out VSD | Gov't | Refrigeration | ROB | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |
| FE-Penelec | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Gov't | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$269 | 35% | 0.9 |
| FE-Penelec | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Gov't | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$269 | 35% | 0.8 |
| FE-Penelec | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Gov't | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.0 |
| FE-Penelec | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Gov't | Refrigeration | New | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 2.9 |
| FE-Penelec | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Gov't | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.0 |
| FE-Penelec | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Gov't | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 2.9 |
| FE-Penelec | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 35% | 2.3 |
| FE-Penelec | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 35% | 2.2 |
| FE-Penelec | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 4.9 |
| FE-Penelec | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.6 |
| FE-Penelec | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 4.9 |
| FE-Penelec | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.6 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Gov't | Space Heating | Existing | building | 9,998 | 7.1% | 0.07 | 6 | \$12,713 | 82% | 0.0 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Gov't | Space Heating | New | building | 9,998 | 7.1% | 0.07 | 6 | \$12,713 | 82% | 0.0 |
| FE-Penelec | Adding window shade film | No shade film | Gov't | Space Heating | Existing | building | 9,998 | 1.3% | 0.4 | 10 | \$122 | 13% | 2.5 |
| FE-Penelec | Adding window shade film | No shade film | Gov't | Space Heating | New | building | 9,998 | 1.3% | 0.4 | 10 | \$122 | 13% | 2.5 |
| FE-Penelec | Adding window shade screen | No shade screen | Gov't | Space Heating | Existing | building | 9,998 | 1.1% | 0.01 | 10 | \$47 | 13% | 0.9 |
| FE-Penelec | Adding window shade screen | No shade screen | Gov't | Space Heating | New | building | 9,998 | 1.1% | 0.01 | 10 | \$47 | 13% | 0.9 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|--|---|---------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Automated control system | Manual Controls | Gov't | Space Heating | Existing | building | 9,998 | 17% | 0.2 | 15 | \$10,946 | 51% | 0.1 |
| FE-Penelec | Automated control system | Manual Controls | Gov't | Space Heating | New | building | 9,998 | 17% | 0.2 | 15 | \$10,946 | 94% | 0.1 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Gov't | Space Heating | Existing | building | 9,998 | 3.4% | 0.03 | 15 | \$17,130 | 71% | 0.0 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Gov't | Space Heating | New | building | 9,998 | 1.1% | 0.01 | 15 | \$16,283 | 94% | 0.0 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Gov't | Space Heating | Existing | building | 9,998 | 1.4% | 0.04 | 15 | \$79 | 20% | 1.3 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Gov't | Space Heating | New | building | 9,998 | 1.4% | 0.04 | 15 | \$79 | 10% | 1.3 |
| FE-Penelec | Efficient Unit Heating System | Existing Unit Heaters in PA | Gov't | Space Heating | Early | heater | 38,902 | 23% | 0.07 | 15 | \$3,289 | 83% | 1.3 |
| FE-Penelec | Efficient Unit Heating System | Std. Unit Heater | Gov't | Space Heating | New | heater | 34,525 | 13% | 0.03 | 15 | \$1,991 | 83% | 1.1 |
| FE-Penelec | Efficient Unit Heating System | Std. Unit Heater | Gov't | Space Heating | ROB | heater | 34,525 | 13% | 0.03 | 15 | \$1,991 | 83% | 1.1 |
| FE-Penelec | Facility Commissioning | No Facility Commissioning | Gov't | Space Heating | New | building | 9,998 | 16% | 0.2 | 10 | \$142,794 | 89% | 0.0 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Gov't | Space Heating | Existing | building | 9,998 | 7.1% | 0.07 | 15 | \$44,349 | 25% | 0.0 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Gov't | Space Heating | New | building | 9,998 | 7.1% | 0.07 | 15 | \$44,349 | 35% | 0.0 |
| FE-Penelec | Hi Eff HVAC System Design | No HVAC Design | Gov't | Space Heating | New | building | 9,998 | 7.4% | 0.07 | 10 | \$1,051,305 | 51% | 0.0 |
| FE-Penelec | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Gov't | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$76 | 80% | 1.0 |
| FE-Penelec | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Gov't | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$76 | 80% | 1.0 |
| FE-Penelec | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Gov't | Space Heating | Existing | building | 9,998 | 1.1% | 0.01 | 10 | \$7,735 | 81% | 0.0 |
| FE-Penelec | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Gov't | Space Heating | New | building | 9,998 | 1.1% | 0.01 | 10 | \$7,735 | 81% | 0.0 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Gov't | Space Heating | Existing | building | 9,998 | 3.6% | 0.04 | 11 | \$286 | 49% | 0.6 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Gov't | Space Heating | New | building | 9,998 | 3.1% | 0.03 | 11 | \$146 | 49% | 0.9 |
| FE-Penelec | Re-Commissioning (Existing Construction) | No Re-Commissioning | Gov't | Space Heating | Existing | building | 9,998 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |
| FE-Penelec | VFD on Cooling Tower Fan | Motor w/out VFD | Gov't | Space Heating | Early | motor | 15,151 | 70% | 0.08 | 15 | \$2,843 | 88% | 1.8 |
| FE-Penelec | VFD on Cooling Tower Fan | Motor w/out VFD | Gov't | Space Heating | New | motor | 14,867 | 72% | 0.08 | 15 | \$2,843 | 88% | 1.8 |
| FE-Penelec | VFD on Cooling Tower Fan | Motor w/out VFD | Gov't | Space Heating | ROB | motor | 14,867 | 72% | 0.08 | 15 | \$2,843 | 88% | 1.8 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Gov't | Space Heating | Existing | building | 9,998 | 6.0% | 0.06 | 15 | \$3,285 | 26% | 0.1 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Gov't | Space Heating | New | building | 9,998 | 0.2% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| FE-Penelec | Green LED Traffic Light | Green Incandescent Traffic Light | Gov't | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 0% | 1.2 |
| FE-Penelec | Green LED Traffic Light | Green Incandescent Traffic Light | Gov't | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| FE-Penelec | Green LED Traffic Light | Green Incandescent Traffic Light | Gov't | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| FE-Penelec | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Gov't | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 0% | 3.0 |
| FE-Penelec | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Gov't | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-Penelec | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Gov't | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-Penelec | Induction Street Lighting | One 100W HPS Street Light Fixture | Gov't | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 0% | 0.3 |
| FE-Penelec | Induction Street Lighting | One 100W HPS Street Light Fixture | Gov't | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.7 |
| FE-Penelec | Induction Street Lighting | One 100W HPS Street Light Fixture | Gov't | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.7 |
| FE-Penelec | LED Street Lighting | One 100W HPS Street Light | Gov't | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 0% | 0.2 |
| FE-Penelec | LED Street Lighting | One 100W HPS Street Light | Gov't | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-Penelec | LED Street Lighting | One 100W HPS Street Light | Gov't | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-Penelec | Red LED Traffic Light | One Red Incandescent Traffic Light | Gov't | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 0% | 1.6 |
| FE-Penelec | Red LED Traffic Light | One Red Incandescent Traffic Light | Gov't | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| FE-Penelec | Red LED Traffic Light | One Red Incandescent Traffic Light | Gov't | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| FE-Penelec | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Gov't | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 0% | 0.1 |
| FE-Penelec | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Gov't | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-Penelec | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Gov't | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-Penelec | Demand controlled Circulating Systems | Constant circulation system | Gov't | Water Heating | Existing | building | 8,380 | 20% | 0.2 | 15 | \$1,521 | 59% | 0.7 |
| FE-Penelec | Demand controlled Circulating Systems | Constant circulation system | Gov't | Water Heating | New | building | 8,380 | 20% | 0.2 | 15 | \$1,521 | 59% | 0.7 |
| FE-Penelec | Drainwater Heat Recovery Water Heater | No heat recovery | Gov't | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.9 |
| FE-Penelec | Drainwater Heat Recovery Water Heater | No heat recovery | Gov't | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.9 |
| FE-Penelec | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Gov't | Water Heating | Existing | building | 8,380 | 5.9% | 0.06 | 12 | \$42 | 85% | 6.2 |
| FE-Penelec | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Gov't | Water Heating | New | building | 8,380 | 5.9% | 0.06 | 12 | \$12 | 85% | 21.6 |
| FE-Penelec | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Gov't | Water Heating | Early | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 2.9 |
| FE-Penelec | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Gov't | Water Heating | Early | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 2.9 |
| FE-Penelec | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Gov't | Water Heating | New | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 2.9 |
| FE-Penelec | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Gov't | Water Heating | New | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 2.9 |
| FE-Penelec | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Gov't | Water Heating | ROB | water heater | 10,350 | 65% | 1.2 | 10 | \$1,187 | 68% | 2.8 |
| FE-Penelec | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Gov't | Water Heating | ROB | water heater | 10,350 | 65% | 1.2 | 10 | \$1,187 | 68% | 2.8 |
| FE-Penelec | Heat Recovery Unit | Base Water Heating | Gov't | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.6 |
| FE-Penelec | Heat Recovery Unit | Base Water Heating | Gov't | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.6 |
| FE-Penelec | Heat Trap | No Heat Trap | Gov't | Water Heating | Existing | building | 8,380 | 22% | 0.2 | 11 | \$57 | 50% | 15.9 |
| FE-Penelec | Heat Trap | No Heat Trap | Gov't | Water Heating | New | building | 8,380 | 22% | 0.2 | 11 | \$8.5 | 50% | 106.9 |
| FE-Penelec | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Gov't | Water Heating | Early | water heater | 10,645 | 5.9% | 0.1 | 15 | \$307 | 79% | 1.4 |
| FE-Penelec | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Gov't | Water Heating | Early | water heater | 10,645 | 5.9% | 0.1 | 15 | \$307 | 79% | 1.4 |
| FE-Penelec | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Gov't | Water Heating | New | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.8 |
| FE-Penelec | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Gov't | Water Heating | New | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.8 |
| FE-Penelec | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Gov't | Water Heating | ROB | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.8 |
| FE-Penelec | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Gov't | Water Heating | ROB | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.8 |
| FE-Penelec | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Gov't | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$466 | 81% | 39.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|--|---|---------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Gov't | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 20.4 |
| FE-Penelec | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Gov't | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 20.4 |
| FE-Penelec | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Gov't | Water Heating | Existing | building | 8,380 | 0.4% | 0.00 | 13 | \$4.9 | 68% | 4.0 |
| FE-Penelec | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Gov't | Water Heating | New | building | 8,380 | 0.4% | 0.00 | 13 | \$4.9 | 0% | 4.0 |
| FE-Penelec | Hot Water Circulation Pump Time-Clock | Constant circulation system | Gov't | Water Heating | Existing | building | 8,380 | 5.3% | 0.05 | 10 | \$34 | 72% | 6.0 |
| FE-Penelec | Hot Water Circulation Pump Time-Clock | Constant circulation system | Gov't | Water Heating | New | building | 8,380 | 5.3% | 0.05 | 10 | \$34 | 72% | 6.0 |
| FE-Penelec | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Gov't | Water Heating | Existing | building | 8,380 | 0.9% | 0.01 | 7 | \$22 | 78% | 1.2 |
| FE-Penelec | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Gov't | Water Heating | New | building | 8,380 | 0.8% | 0.01 | 7 | \$0.5 | 78% | 45.8 |
| FE-Penelec | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Gov't | Water Heating | Existing | building | 8,380 | 2.3% | 0.02 | 5 | \$300 | 20% | 0.2 |
| FE-Penelec | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Gov't | Water Heating | New | building | 8,380 | 1.5% | 0.02 | 5 | \$194 | 20% | 0.2 |
| FE-Penelec | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Gov't | Water Heating | Existing | building | 8,380 | 6.5% | 0.07 | 9 | \$25 | 2% | 9.1 |
| FE-Penelec | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Gov't | Water Heating | New | building | 8,380 | 6.5% | 0.07 | 9 | \$6.0 | 2% | 38.1 |
| FE-Penelec | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Gov't | Water Heating | Early | water heater | 10,645 | 52% | 0.4 | 15 | \$6,222 | 32% | 0.5 |
| FE-Penelec | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Gov't | Water Heating | New | water heater | 10,350 | 51% | 0.4 | 15 | \$6,222 | 32% | 0.5 |
| FE-Penelec | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Gov't | Water Heating | ROB | water heater | 10,350 | 51% | 0.4 | 15 | \$6,222 | 32% | 0.5 |
| FE-Penelec | Ultrasonic Faucet Control | Manual Faucet Control | Gov't | Water Heating | Existing | building | 8,380 | 3.0% | 0.03 | 10 | \$1,449 | 77% | 0.1 |
| FE-Penelec | Ultrasonic Faucet Control | Manual Faucet Control | Gov't | Water Heating | New | building | 8,380 | 3.1% | 0.03 | 10 | \$1,449 | 77% | 0.1 |
| FE-Penelec | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Gov't | Water Heating | Existing | building | 8,380 | 2.2% | 0.02 | 4 | \$28 | 83% | 1.4 |
| FE-Penelec | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Gov't | Water Heating | New | building | 8,380 | 2.3% | 0.02 | 4 | \$28 | 83% | 1.5 |
| FE-Penelec | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Grocery | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.1 |
| FE-Penelec | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Grocery | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.1 |
| FE-Penelec | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Grocery | Cooking | Early | steamer | 51 | 46% | 0.00 | 12 | \$5,053 | 81% | 0.0 |
| FE-Penelec | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Grocery | Cooking | New | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-Penelec | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Grocery | Cooking | ROB | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-Penelec | Electric combination oven (Energy Star) | Standard Oven | Grocery | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.9 |
| FE-Penelec | Electric combination oven (Energy Star) | Standard Oven | Grocery | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.9 |
| FE-Penelec | Electric Convection Oven | Conventional convection oven w/ 65% efficiency | Grocery | Cooking | Early | oven | 8,641 | 37% | 0.6 | 12 | \$4,119 | 81% | 0.4 |
| FE-Penelec | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Grocery | Cooking | New | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.7 |
| FE-Penelec | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Grocery | Cooking | ROB | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.7 |
| FE-Penelec | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Grocery | Cooking | Early | fryer | 6,105 | 23% | 0.3 | 12 | \$9,241 | 86% | 0.1 |
| FE-Penelec | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Grocery | Cooking | New | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| FE-Penelec | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Grocery | Cooking | ROB | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| FE-Penelec | High Efficiency Griddle (ENERGY STAR) | Efficiency code minimum griddle (70% eff) | Grocery | Cooking | Early | griddle | 11,317 | 65% | 1.4 | 12 | \$4,977 | 86% | 0.8 |
| FE-Penelec | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Grocery | Cooking | New | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.2 |
| FE-Penelec | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Grocery | Cooking | ROB | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.2 |
| FE-Penelec | High Efficiency Induction Cooking | Standard Cooking | Grocery | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-Penelec | High Efficiency Induction Cooking | Standard Cooking | Grocery | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-Penelec | Solid-state temperature controls | No Solid State Controls | Grocery | Cooking | Existing | building | 4,549 | 3.6% | 0.04 | 12 | \$20 | 34% | 4.7 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Grocery | Cooling Central | Existing | building | 3,255 | 7.0% | 0.07 | 6 | \$25,188 | 82% | 0.0 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Grocery | Cooling Central | New | building | 3,255 | 7.0% | 0.07 | 6 | \$25,188 | 82% | 0.0 |
| FE-Penelec | Adding window shade film | No shade film | Grocery | Cooling Central | Existing | building | 3,255 | 1.3% | 0.4 | 10 | \$40 | 12% | 7.0 |
| FE-Penelec | Adding window shade film | No shade film | Grocery | Cooling Central | New | building | 3,255 | 1.3% | 0.4 | 10 | \$40 | 13% | 7.0 |
| FE-Penelec | Adding window shade screen | No shade screen | Grocery | Cooling Central | Existing | building | 3,255 | 1.1% | 0.01 | 10 | \$15 | 13% | 1.3 |
| FE-Penelec | Adding window shade screen | No shade screen | Grocery | Cooling Central | New | building | 3,255 | 1.1% | 0.01 | 10 | \$15 | 13% | 1.3 |
| FE-Penelec | Automated control system | Manual Controls | Grocery | Cooling Central | Existing | building | 3,255 | 17% | 0.2 | 15 | \$3,563 | 51% | 0.1 |
| FE-Penelec | Automated control system | Manual Controls | Grocery | Cooling Central | New | building | 3,255 | 17% | 0.2 | 15 | \$3,563 | 94% | 0.1 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Grocery | Cooling Central | Existing | building | 3,255 | 9.8% | 0.10 | 15 | \$33,930 | 71% | 0.0 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Grocery | Cooling Central | New | building | 3,255 | 3.3% | 0.03 | 15 | \$32,251 | 94% | 0.0 |
| FE-Penelec | Chiller Tuneup/Diagnostics | No tuneup | Grocery | Cooling Central | Existing | building | 3,255 | 8.0% | 0.08 | 10 | \$8,311 | 59% | 0.0 |
| FE-Penelec | Chiller Tuneup/Diagnostics | No tuneup | Grocery | Cooling Central | New | building | 3,255 | 8.0% | 0.08 | 10 | \$8,311 | 59% | 0.0 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Grocery | Cooling Central | Existing | building | 3,255 | 1.4% | 0.04 | 15 | \$26 | 20% | 2.4 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Grocery | Cooling Central | New | building | 3,255 | 1.4% | 0.04 | 15 | \$26 | 10% | 2.4 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Grocery | Cooling Central | Existing | building | 3,255 | 7.0% | 0.07 | 15 | \$14,438 | 25% | 0.0 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Grocery | Cooling Central | New | building | 3,255 | 7.0% | 0.07 | 15 | \$14,438 | 35% | 0.0 |
| FE-Penelec | Hi Eff HVAC System Design | No HVAC Design | Grocery | Cooling Central | New | building | 3,255 | 9.3% | 0.09 | 10 | \$944,276 | 51% | 0.0 |
| FE-Penelec | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Grocery | Cooling Central | Early | ton | 3,841 | 24% | 0.3 | 15 | \$108,550 | 88% | 0.0 |
| FE-Penelec | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Grocery | Cooling Central | New | ton | 3,140 | 6.7% | 0.07 | 15 | \$12,927 | 88% | 0.0 |
| FE-Penelec | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Grocery | Cooling Central | ROB | ton | 3,140 | 6.7% | 0.07 | 15 | \$12,927 | 88% | 0.0 |
| FE-Penelec | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Grocery | Cooling Central | Early | ton | 5,740 | 23% | 0.5 | 15 | \$140,105 | 88% | 0.0 |
| FE-Penelec | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Grocery | Cooling Central | New | ton | 4,618 | 4.9% | 0.08 | 15 | \$9,336 | 88% | 0.0 |
| FE-Penelec | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Grocery | Cooling Central | ROB | ton | 4,618 | 4.9% | 0.08 | 15 | \$9,336 | 88% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|--|--|---------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Grocery | Cooling Central | Early | ton | 46,985 | 26% | 4.2 | 15 | \$105,354 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Grocery | Cooling Central | New | ton | 40,938 | 15% | 2.1 | 15 | \$30,530 | 88% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Grocery | Cooling Central | ROB | ton | 40,938 | 15% | 2.1 | 15 | \$30,530 | 88% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Grocery | Cooling Central | Early | ton | 70,371 | 23% | 5.6 | 15 | \$154,107 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Grocery | Cooling Central | New | ton | 64,645 | 16% | 3.6 | 15 | \$27,646 | 88% | 0.3 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Grocery | Cooling Central | ROB | ton | 70,371 | 23% | 5.6 | 15 | \$27,646 | 88% | 0.5 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Grocery | Cooling Central | Early | ton | 116,873 | 23% | 9.2 | 15 | \$302,924 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Grocery | Cooling Central | New | ton | 105,779 | 14% | 5.3 | 15 | \$115,432 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Grocery | Cooling Central | ROB | ton | 116,873 | 23% | 9.2 | 15 | \$115,432 | 88% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Grocery | Cooling Central | Early | ton | 140,248 | 23% | 11.0 | 15 | \$350,154 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Grocery | Cooling Central | New | ton | 126,935 | 14% | 6.4 | 15 | \$120,406 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Grocery | Cooling Central | ROB | ton | 140,248 | 23% | 11.0 | 15 | \$120,406 | 88% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Grocery | Cooling Central | Early | ton | 31,087 | 29% | 3.2 | 15 | \$83,632 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Grocery | Cooling Central | New | ton | 24,139 | 8.9% | 0.8 | 15 | \$40,211 | 88% | 0.0 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Grocery | Cooling Central | ROB | ton | 31,087 | 29% | 3.2 | 15 | \$40,211 | 88% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Grocery | Cooling Central | Early | ton | 53,416 | 35% | 6.5 | 15 | \$132,173 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Grocery | Cooling Central | New | ton | 39,839 | 13% | 1.7 | 15 | \$39,556 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Grocery | Cooling Central | ROB | ton | 39,839 | 13% | 1.7 | 15 | \$39,556 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Grocery | Cooling Central | Early | ton | 89,181 | 39% | 12.1 | 15 | \$187,029 | 88% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Grocery | Cooling Central | New | ton | 63,585 | 15% | 3.2 | 15 | \$33,554 | 88% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Grocery | Cooling Central | ROB | ton | 89,181 | 39% | 12.1 | 15 | \$33,554 | 88% | 0.9 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Grocery | Cooling Central | Early | ton | 15,605 | 30% | 1.6 | 15 | \$32,398 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Grocery | Cooling Central | New | ton | 12,364 | 11% | 0.5 | 15 | \$7,188 | 88% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Grocery | Cooling Central | ROB | ton | 15,605 | 30% | 1.6 | 15 | \$7,188 | 88% | 0.6 |
| FE-Penelec | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Grocery | Cooling Central | Existing | building | 3,255 | 1.1% | 0.01 | 10 | \$94,032 | 81% | 0.0 |
| FE-Penelec | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Grocery | Cooling Central | New | building | 3,255 | 1.1% | 0.01 | 10 | \$94,032 | 81% | 0.0 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Grocery | Cooling Central | Existing | building | 3,255 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.1 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Grocery | Cooling Central | New | building | 3,255 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.2 |
| FE-Penelec | Re-Commissioning (Existing Construction) | No Re-Commissioning | Grocery | Cooling Central | Existing | building | 3,255 | 16% | 0.2 | 5 | \$19,254 | 86% | 0.0 |
| FE-Penelec | Wall Insultions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Grocery | Cooling Central | Existing | building | 3,255 | 19% | 0.2 | 15 | \$7,224 | 26% | 0.1 |
| FE-Penelec | Wall Insultions (Going upto R 21) | Code minimum Wall Insulations | Grocery | Cooling Central | New | building | 3,255 | 0.5% | 0.01 | 15 | \$5,541 | 94% | 0.0 |
| FE-Penelec | <65k BTU/hr 14 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Grocery | Cooling Unitary | Early | ton | 1,639 | 16% | 0.1 | 15 | \$1,545 | 29% | 0.2 |
| FE-Penelec | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Grocery | Cooling Unitary | New | ton | 1,484 | 7.1% | 0.05 | 15 | \$339 | 29% | 0.3 |
| FE-Penelec | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Grocery | Cooling Unitary | ROB | ton | 1,484 | 7.1% | 0.05 | 15 | \$339 | 29% | 0.3 |
| FE-Penelec | <65k BTU/hr 15 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Grocery | Cooling Unitary | Early | ton | 1,639 | 22% | 0.2 | 15 | \$1,821 | 30% | 0.2 |
| FE-Penelec | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Grocery | Cooling Unitary | New | ton | 1,484 | 13% | 0.10 | 15 | \$714 | 30% | 0.3 |
| FE-Penelec | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Grocery | Cooling Unitary | ROB | ton | 1,484 | 13% | 0.10 | 15 | \$714 | 30% | 0.3 |
| FE-Penelec | <65k BTU/hr 16 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Grocery | Cooling Unitary | Early | ton | 1,639 | 26% | 0.2 | 15 | \$2,098 | 31% | 0.2 |
| FE-Penelec | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Grocery | Cooling Unitary | New | ton | 1,484 | 19% | 0.1 | 15 | \$1,089 | 31% | 0.3 |
| FE-Penelec | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Grocery | Cooling Unitary | ROB | ton | 1,484 | 19% | 0.1 | 15 | \$1,089 | 31% | 0.3 |
| FE-Penelec | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Grocery | Cooling Unitary | Early | ton | 41,464 | 3.7% | 0.8 | 15 | \$68,066 | 56% | 0.0 |
| FE-Penelec | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Grocery | Cooling Unitary | New | ton | 41,996 | 4.9% | 1.0 | 15 | \$6,231 | 56% | 0.3 |
| FE-Penelec | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Grocery | Cooling Unitary | ROB | ton | 41,996 | 4.9% | 1.0 | 15 | \$6,231 | 56% | 0.3 |
| FE-Penelec | 135-240k min 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Grocery | Cooling Unitary | Early | ton | 10,202 | 18% | 0.9 | 15 | \$18,135 | 79% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|--|---------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Grocery | Cooling Unitary | New | ton | 9,281 | 10.0% | 0.5 | 15 | \$1,948 | 79% | 0.5 |
| FE-Penelec | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Grocery | Cooling Unitary | ROB | ton | 9,281 | 10.0% | 0.5 | 15 | \$1,948 | 79% | 0.5 |
| FE-Penelec | 240k-760k min 11 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Grocery | Cooling Unitary | Early | ton | 27,279 | 9.0% | 1.2 | 15 | \$44,809 | 66% | 0.1 |
| FE-Penelec | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Grocery | Cooling Unitary | New | ton | 27,347 | 9.3% | 1.3 | 15 | \$4,813 | 66% | 0.5 |
| FE-Penelec | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Grocery | Cooling Unitary | ROB | ton | 27,347 | 9.3% | 1.3 | 15 | \$4,813 | 66% | 0.5 |
| FE-Penelec | 65k-135k BTU/hr 12 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Grocery | Cooling Unitary | Early | ton | 6,014 | 17% | 0.5 | 15 | \$10,946 | 86% | 0.1 |
| FE-Penelec | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Grocery | Cooling Unitary | New | ton | 5,360 | 6.7% | 0.2 | 15 | \$1,392 | 86% | 0.3 |
| FE-Penelec | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Grocery | Cooling Unitary | ROB | ton | 5,360 | 6.7% | 0.2 | 15 | \$1,392 | 86% | 0.3 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Grocery | Cooling Unitary | Existing | building | 30,199 | 7.0% | 0.07 | 6 | \$25,188 | 82% | 0.0 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Grocery | Cooling Unitary | New | building | 30,199 | 7.0% | 0.07 | 6 | \$25,188 | 82% | 0.0 |
| FE-Penelec | Adding window shade film | No shade film | Grocery | Cooling Unitary | Existing | building | 30,199 | 1.3% | 0.4 | 10 | \$367 | 12% | 1.1 |
| FE-Penelec | Adding window shade film | No shade film | Grocery | Cooling Unitary | New | building | 30,199 | 1.3% | 0.4 | 10 | \$367 | 13% | 1.1 |
| FE-Penelec | Adding window shade screen | No shade screen | Grocery | Cooling Unitary | Existing | building | 30,199 | 1.1% | 0.01 | 10 | \$142 | 12% | 0.9 |
| FE-Penelec | Adding window shade screen | No shade screen | Grocery | Cooling Unitary | New | building | 30,199 | 1.1% | 0.01 | 10 | \$142 | 13% | 0.9 |
| FE-Penelec | Automated control system | Manual Controls | Grocery | Cooling Unitary | Existing | building | 30,199 | 17% | 0.2 | 15 | \$33,061 | 51% | 0.1 |
| FE-Penelec | Automated control system | Manual Controls | Grocery | Cooling Unitary | New | building | 30,199 | 17% | 0.2 | 15 | \$33,061 | 94% | 0.1 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Grocery | Cooling Unitary | Existing | building | 30,199 | 9.8% | 0.10 | 15 | \$33,930 | 71% | 0.0 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Grocery | Cooling Unitary | New | building | 30,199 | 3.3% | 0.03 | 15 | \$32,251 | 94% | 0.0 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Grocery | Cooling Unitary | Existing | building | 30,199 | 1.4% | 0.04 | 15 | \$240 | 20% | 1.1 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Grocery | Cooling Unitary | New | building | 30,199 | 1.4% | 0.04 | 15 | \$240 | 10% | 1.1 |
| FE-Penelec | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Grocery | Cooling Unitary | Existing | building | 16,610 | 13% | 0.1 | 1 | \$159 | 73% | 0.7 |
| FE-Penelec | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Grocery | Cooling Unitary | New | building | 16,610 | 13% | 0.1 | 1 | \$159 | 73% | 0.7 |
| FE-Penelec | ECM Motors for split systems | Std Shaded Pole Motor | Grocery | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.9 |
| FE-Penelec | ECM Motors for split systems | Std Shaded Pole Motor | Grocery | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.9 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Grocery | Cooling Unitary | Existing | building | 30,199 | 7.1% | 0.07 | 15 | \$133,957 | 25% | 0.0 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Grocery | Cooling Unitary | New | building | 30,199 | 7.1% | 0.07 | 15 | \$133,957 | 35% | 0.0 |
| FE-Penelec | Hi Eff HVAC System Design | No HVAC Design | Grocery | Cooling Unitary | New | building | 30,199 | 9.3% | 0.09 | 10 | \$11,414 | 51% | 0.1 |
| FE-Penelec | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Grocery | Cooling Unitary | Existing | building | 30,199 | 5.0% | 0.05 | 5 | \$225 | 59% | 1.5 |
| FE-Penelec | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Grocery | Cooling Unitary | Existing | building | 30,199 | 0.5% | 0.05 | 5 | \$225 | 51% | 0.2 |
| FE-Penelec | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Grocery | Cooling Unitary | New | building | 30,199 | 0.5% | 0.05 | 5 | \$135 | 51% | 0.4 |
| FE-Penelec | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Grocery | Cooling Unitary | Existing | building | 30,199 | 1.1% | 0.01 | 10 | \$101,057 | 86% | 0.0 |
| FE-Penelec | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Grocery | Cooling Unitary | New | building | 30,199 | 1.1% | 0.01 | 10 | \$101,057 | 86% | 0.0 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) | Grocery | Cooling Unitary | Existing | building | 30,199 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.9 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Grocery | Cooling Unitary | New | building | 30,199 | 1.7% | 0.02 | 11 | \$146 | 49% | 1.5 |
| FE-Penelec | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Grocery | Cooling Unitary | Early | unit | 118 | 19% | 0.01 | 15 | \$849 | 85% | 0.0 |
| FE-Penelec | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Grocery | Cooling Unitary | New | unit | 119 | 20% | 0.01 | 15 | \$356 | 85% | 0.1 |
| FE-Penelec | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Grocery | Cooling Unitary | ROB | unit | 119 | 20% | 0.01 | 15 | \$356 | 85% | 0.1 |
| FE-Penelec | Re-Commissioning (Existing Construction) | No Re-Commissioning | Grocery | Cooling Unitary | Existing | building | 30,199 | 16% | 0.2 | 5 | \$19,254 | 86% | 0.1 |
| FE-Penelec | Room AC (w/ louvered sides) | Existing efficiency Room AC in Pennsylvania (2000 Federal Standards) | Grocery | Cooling Unitary | Early | ton | 918 | 13% | 0.04 | 9 | \$348 | 82% | 0.2 |
| FE-Penelec | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Grocery | Cooling Unitary | New | ton | 832 | 4.5% | 0.01 | 9 | \$17 | 82% | 1.2 |
| FE-Penelec | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Grocery | Cooling Unitary | ROB | ton | 832 | 4.5% | 0.01 | 9 | \$17 | 82% | 1.2 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Grocery | Cooling Unitary | Existing | building | 30,199 | 19% | 0.2 | 15 | \$7,224 | 26% | 0.5 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Grocery | Cooling Unitary | New | building | 30,199 | 0.5% | 0.01 | 15 | \$5,541 | 94% | 0.0 |
| FE-Penelec | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Grocery | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 1.1 |
| FE-Penelec | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Grocery | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.4 |
| FE-Penelec | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Grocery | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.4 |
| FE-Penelec | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Grocery | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 0% | 0.2 |
| FE-Penelec | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Grocery | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-Penelec | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Grocery | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-Penelec | LED exterior lighting | 250 Watt Incandescent | Grocery | Ext. Lighting | ROB | measure | 1,456 | 83% | 0.2 | 15 | \$104 | 89% | 7.8 |
| FE-Penelec | LED exterior lighting | 250 Watt Incandescent | Grocery | Ext. Lighting | ROB | measure | 1,456 | 83% | 0.2 | 15 | \$104 | 89% | 7.8 |
| FE-Penelec | LED exterior lighting | 250 Watt Incandescent | Grocery | Ext. Lighting | ROB | measure | 1,456 | 83% | 0.2 | 15 | \$104 | 89% | 7.8 |
| FE-Penelec | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Grocery | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 75% | 0.3 |
| FE-Penelec | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Grocery | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 75% | 0.2 |
| FE-Penelec | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Grocery | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.8 |
| FE-Penelec | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Grocery | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.1 |
| FE-Penelec | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Grocery | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.8 |
| FE-Penelec | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Grocery | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.1 |
| FE-Penelec | Photocell Controls (Outdoor) | Lighting w/ No Controls | Grocery | Ext. Lighting | Existing | building | 742 | 28% | 0.3 | 8 | \$1,459 | 88% | 0.2 |
| FE-Penelec | Photocell Controls (Outdoor) | Lighting w/ No Controls | Grocery | Ext. Lighting | New | building | 742 | 28% | 0.3 | 8 | \$1,459 | 0% | 0.2 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Grocery | Heat Pump | Existing | building | 3,106 | 6.9% | 0.07 | 6 | \$25,188 | 82% | 0.0 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Grocery | Heat Pump | New | building | 3,106 | 6.9% | 0.07 | 6 | \$25,188 | 82% | 0.0 |
| FE-Penelec | Adding window shade film | No shade film | Grocery | Heat Pump | Existing | building | 3,106 | 3.9% | 0.4 | 10 | \$38 | 12% | 8.0 |
| FE-Penelec | Adding window shade film | No shade film | Grocery | Heat Pump | New | building | 3,106 | 3.9% | 0.4 | 10 | \$38 | 12% | 8.0 |
| FE-Penelec | Adding window shade screen | No shade screen | Grocery | Heat Pump | Existing | building | 3,106 | 0.3% | 0.01 | 10 | \$4.9 | 12% | 2.2 |
| FE-Penelec | Adding window shade screen | No shade screen | Grocery | Heat Pump | New | building | 3,106 | 0.3% | 0.01 | 10 | \$4.9 | 12% | 2.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|--|--|---------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Automated control system | Manual Controls | Grocery | Heat Pump | Existing | building | 3,106 | 17% | 0.2 | 15 | \$3,400 | 51% | 0.1 |
| FE-Penelec | Automated control system | Manual Controls | Grocery | Heat Pump | New | building | 3,106 | 17% | 0.2 | 15 | \$3,400 | 94% | 0.1 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Grocery | Heat Pump | Existing | building | 3,106 | 9.8% | 0.10 | 15 | \$33,930 | 71% | 0.0 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Grocery | Heat Pump | New | building | 3,106 | 3.3% | 0.03 | 15 | \$32,251 | 94% | 0.0 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Grocery | Heat Pump | Existing | building | 3,106 | 4.0% | 0.04 | 15 | \$25 | 12% | 4.0 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Grocery | Heat Pump | New | building | 3,106 | 4.0% | 0.04 | 15 | \$25 | 6% | 4.0 |
| FE-Penelec | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Grocery | Heat Pump | Early | heat pump | 2,534 | 11% | 0.02 | 15 | \$4,070 | 83% | 0.0 |
| FE-Penelec | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Grocery | Heat Pump | New | heat pump | 2,445 | 8.0% | 0.02 | 15 | \$1,097 | 83% | 0.1 |
| FE-Penelec | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Grocery | Heat Pump | ROB | heat pump | 2,445 | 8.0% | 0.02 | 15 | \$1,097 | 83% | 0.1 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Grocery | Heat Pump | Existing | building | 3,106 | 7.0% | 0.07 | 15 | \$13,777 | 25% | 0.0 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Grocery | Heat Pump | New | building | 3,106 | 7.0% | 0.07 | 15 | \$13,777 | 35% | 0.0 |
| FE-Penelec | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Grocery | Heat Pump | Early | heat pump | 18,462 | 16% | 0.3 | 15 | \$91,117 | 19% | 0.0 |
| FE-Penelec | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Grocery | Heat Pump | New | heat pump | 17,799 | 13% | 0.2 | 15 | \$33,927 | 19% | 0.0 |
| FE-Penelec | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Grocery | Heat Pump | ROB | heat pump | 17,799 | 13% | 0.2 | 15 | \$33,927 | 19% | 0.0 |
| FE-Penelec | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Grocery | Heat Pump | Early | heat pump | 18,462 | 16% | 0.3 | 15 | \$58,356 | 19% | 0.0 |
| FE-Penelec | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Grocery | Heat Pump | New | heat pump | 17,799 | 13% | 0.2 | 15 | \$1,167 | 19% | 1.1 |
| FE-Penelec | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Grocery | Heat Pump | ROB | heat pump | 17,799 | 13% | 0.2 | 15 | \$1,167 | 19% | 1.1 |
| FE-Penelec | Hi Eff HVAC System Design | No HVAC Design | Grocery | Heat Pump | New | building | 3,106 | 9.3% | 0.09 | 10 | \$944,276 | 51% | 0.0 |
| FE-Penelec | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Grocery | Heat Pump | Early | heat pump | 4,781 | 16% | 0.07 | 12 | \$4,298 | 81% | 0.1 |
| FE-Penelec | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Grocery | Heat Pump | New | heat pump | 4,561 | 12% | 0.05 | 12 | \$852 | 81% | 0.3 |
| FE-Penelec | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Grocery | Heat Pump | ROB | heat pump | 4,561 | 12% | 0.05 | 12 | \$852 | 81% | 0.3 |
| FE-Penelec | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Grocery | Heat Pump | Existing | building | 3,106 | 5.0% | 0.01 | 5 | \$90 | 51% | 0.4 |
| FE-Penelec | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Grocery | Heat Pump | New | building | 3,106 | 5.0% | 0.01 | 5 | \$90 | 51% | 0.4 |
| FE-Penelec | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Grocery | Heat Pump | Existing | building | 3,106 | 5.0% | 0.01 | 5 | \$90 | 51% | 0.4 |
| FE-Penelec | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Grocery | Heat Pump | Existing | building | 3,106 | 1.1% | 0.01 | 10 | \$89,973 | 81% | 0.0 |
| FE-Penelec | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Grocery | Heat Pump | New | building | 3,106 | 1.1% | 0.01 | 10 | \$89,973 | 81% | 0.0 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Grocery | Heat Pump | Existing | building | 3,106 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.2 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Grocery | Heat Pump | New | building | 3,106 | 2.1% | 0.02 | 11 | \$146 | 49% | 0.3 |
| FE-Penelec | Re-Commissioning (Existing Construction) | No Re-Commissioning | Grocery | Heat Pump | Existing | building | 3,106 | 16% | 0.2 | 5 | \$19,254 | 86% | 0.0 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Grocery | Heat Pump | Existing | building | 3,106 | 19% | 0.2 | 15 | \$7,224 | 26% | 0.1 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Grocery | Heat Pump | New | building | 3,106 | 0.5% | 0.01 | 15 | \$5,541 | 94% | 0.0 |
| FE-Penelec | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Grocery | Heat Pump | Early | heat pump | 7,677 | 35% | 0.2 | 15 | \$35,347 | 28% | 0.0 |
| FE-Penelec | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Grocery | Heat Pump | New | heat pump | 7,300 | 32% | 0.2 | 15 | \$15,739 | 28% | 0.1 |
| FE-Penelec | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Grocery | Heat Pump | ROB | heat pump | 7,300 | 32% | 0.2 | 15 | \$15,739 | 28% | 0.1 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Grocery | High Bay Lighting | Early | Fixture | 1,363 | 9.6% | 0.02 | 13 | \$850 | 39% | 0.1 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Grocery | High Bay Lighting | Early | Fixture | 1,362 | 9.5% | 0.02 | 13 | \$850 | 28% | 0.1 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Grocery | High Bay Lighting | Early | Fixture | 2,102 | 41% | 0.1 | 13 | \$850 | 36% | 0.6 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Grocery | High Bay Lighting | New | Fixture | 1,036 | 9.6% | 0.02 | 13 | \$372 | 39% | 0.2 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Grocery | High Bay Lighting | New | Fixture | 964 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Grocery | High Bay Lighting | New | Fixture | 1,597 | 41% | 0.1 | 13 | \$397 | 36% | 1.0 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Grocery | High Bay Lighting | ROB | Fixture | 1,363 | 9.6% | 0.02 | 13 | \$372 | 39% | 0.2 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Grocery | High Bay Lighting | ROB | Fixture | 1,268 | 2.9% | 0.01 | 13 | \$338 | 28% | 0.1 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Grocery | High Bay Lighting | ROB | Fixture | 2,102 | 41% | 0.1 | 13 | \$397 | 36% | 1.3 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Grocery | High Bay Lighting | Early | Fixture | 2,645 | 19% | 0.09 | 13 | \$851 | 38% | 0.4 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Grocery | High Bay Lighting | Early | Fixture | 2,678 | 20% | 0.09 | 13 | \$851 | 38% | 0.4 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | Early | Fixture | 7,791 | 73% | 1.0 | 13 | \$851 | 38% | 4.0 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Grocery | High Bay Lighting | New | Fixture | 2,010 | 19% | 0.07 | 13 | \$372 | 38% | 0.6 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | New | Fixture | 5,921 | 73% | 0.7 | 13 | \$383 | 38% | 6.8 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Grocery | High Bay Lighting | ROB | Fixture | 2,645 | 19% | 0.09 | 13 | \$372 | 38% | 0.8 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | ROB | Fixture | 7,791 | 73% | 1.0 | 13 | \$383 | 38% | 9.0 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Grocery | High Bay Lighting | Early | Fixture | 2,645 | 25% | 0.1 | 13 | \$554 | 29% | 0.7 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Grocery | High Bay Lighting | Early | Fixture | 2,597 | 23% | 0.1 | 13 | \$554 | 28% | 0.7 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | Early | Fixture | 7,791 | 74% | 1.0 | 13 | \$554 | 36% | 6.4 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Grocery | High Bay Lighting | New | Fixture | 2,010 | 25% | 0.09 | 13 | \$75 | 29% | 4.0 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | New | Fixture | 5,921 | 74% | 0.8 | 13 | \$86 | 36% | 31.2 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Grocery | High Bay Lighting | ROB | Fixture | 2,645 | 25% | 0.1 | 13 | \$75 | 29% | 5.3 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | ROB | Fixture | 7,791 | 74% | 1.0 | 13 | \$86 | 36% | 41.1 |
| FE-Penelec | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Grocery | High Bay Lighting | Early | Fixture | 690 | 0.2% | 0.00 | 13 | \$835 | 38% | 0.0 |
| FE-Penelec | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Grocery | High Bay Lighting | Early | Fixture | 1,486 | 54% | 0.1 | 13 | \$835 | 38% | 0.6 |
| FE-Penelec | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Grocery | High Bay Lighting | New | Fixture | 1,129 | 54% | 0.1 | 13 | \$382 | 38% | 1.0 |
| FE-Penelec | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Grocery | High Bay Lighting | ROB | Fixture | 1,486 | 54% | 0.1 | 13 | \$382 | 38% | 1.3 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Grocery | High Bay Lighting | Early | Fixture | 3,370 | 18% | 0.1 | 13 | \$487 | 25% | 0.8 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Grocery | High Bay Lighting | Early | Fixture | 3,524 | 22% | 0.1 | 13 | \$487 | 28% | 1.0 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | Early | Fixture | 7,791 | 65% | 0.9 | 13 | \$487 | 36% | 6.3 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Grocery | High Bay Lighting | New | Fixture | 2,561 | 18% | 0.08 | 13 | \$16 | 25% | 17.5 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|---|---------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | New | Fixture | 5,921 | 65% | 0.7 | 13 | \$18 | 36% | 126.5 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Grocery | High Bay Lighting | ROB | Fixture | 3,370 | 18% | 0.1 | 13 | \$16 | 25% | 23.0 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | ROB | Fixture | 7,791 | 65% | 0.9 | 13 | \$18 | 36% | 166.4 |
| FE-Penelec | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Grocery | High Bay Lighting | Early | Fixture | 3,370 | 1.5% | 0.01 | 13 | \$557 | 19% | 0.1 |
| FE-Penelec | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Grocery | High Bay Lighting | Early | Fixture | 3,469 | 4.3% | 0.03 | 13 | \$557 | 19% | 0.2 |
| FE-Penelec | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | Early | Fixture | 7,791 | 57% | 0.8 | 13 | \$557 | 19% | 4.9 |
| FE-Penelec | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Grocery | High Bay Lighting | New | Fixture | 2,561 | 1.5% | 0.01 | 13 | \$86 | 19% | 0.3 |
| FE-Penelec | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | New | Fixture | 5,921 | 57% | 0.6 | 13 | \$88 | 19% | 23.4 |
| FE-Penelec | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Grocery | High Bay Lighting | ROB | Fixture | 3,370 | 1.5% | 0.01 | 13 | \$86 | 19% | 0.4 |
| FE-Penelec | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | ROB | Fixture | 7,791 | 57% | 0.8 | 13 | \$88 | 19% | 30.8 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Grocery | High Bay Lighting | Early | Fixture | 1,431 | 29% | 0.05 | 13 | \$492 | 71% | 0.5 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Grocery | High Bay Lighting | Early | Fixture | 1,197 | 15% | 0.02 | 13 | \$492 | 95% | 0.2 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Grocery | High Bay Lighting | Early | Fixture | 1,778 | 43% | 0.09 | 13 | \$492 | 95% | 0.9 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Grocery | High Bay Lighting | Early | Fixture | 1,648 | 38% | 0.08 | 13 | \$492 | 95% | 0.7 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Grocery | High Bay Lighting | New | Fixture | 909 | 15% | 0.02 | 13 | \$25 | 95% | 3.1 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Grocery | High Bay Lighting | New | Fixture | 1,351 | 43% | 0.07 | 13 | \$51 | 95% | 6.4 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Grocery | High Bay Lighting | ROB | Fixture | 1,197 | 15% | 0.02 | 13 | \$25 | 95% | 4.1 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Grocery | High Bay Lighting | ROB | Fixture | 1,778 | 43% | 0.09 | 13 | \$51 | 95% | 8.4 |
| FE-Penelec | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Grocery | High Bay Lighting | Early | lamp | 155 | 16% | 0.00 | 7 | \$7.7 | 99% | 1.2 |
| FE-Penelec | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Grocery | High Bay Lighting | New | lamp | 92 | 13% | 0.00 | 7 | \$1.6 | 91% | 2.7 |
| FE-Penelec | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Grocery | High Bay Lighting | ROB | lamp | 149 | 13% | 0.00 | 7 | \$1.6 | 91% | 4.3 |
| FE-Penelec | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Grocery | High Bay Lighting | Early | Fixture | 7,972 | 23% | 0.3 | 13 | \$613 | 5% | 1.8 |
| FE-Penelec | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Grocery | High Bay Lighting | Early | Fixture | 6,263 | 1.6% | 0.02 | 13 | \$613 | 28% | 0.1 |
| FE-Penelec | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | Early | Fixture | 15,582 | 60% | 1.6 | 13 | \$613 | 18% | 9.3 |
| FE-Penelec | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Grocery | High Bay Lighting | New | Fixture | 6,059 | 23% | 0.2 | 13 | \$96 | 5% | 8.7 |
| FE-Penelec | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Grocery | High Bay Lighting | ROB | Fixture | 7,972 | 23% | 0.3 | 13 | \$96 | 5% | 11.4 |
| FE-Penelec | Auto Off Time Switch | Lighting w/ No Controls | Grocery | High Bay Lighting | Existing | building | 4,581 | 24% | 0.2 | 8 | \$296 | 13% | 1.6 |
| FE-Penelec | Auto Off Time Switch | Lighting w/ No Controls | Grocery | High Bay Lighting | New | building | 4,581 | 6.9% | 0.07 | 8 | \$296 | 0% | 0.5 |
| FE-Penelec | Central Lighting Control System | Lighting w/ No Controls | Grocery | High Bay Lighting | Existing | building | 4,581 | 38% | 0.4 | 8 | \$296 | 13% | 2.6 |
| FE-Penelec | Central Lighting Control System | Lighting w/ No Controls | Grocery | High Bay Lighting | New | building | 4,581 | 14% | 0.1 | 8 | \$296 | 13% | 1.0 |
| FE-Penelec | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Grocery | High Bay Lighting | New | building | 4,581 | 10.0% | 0.1 | 15 | \$69,961 | 32% | 0.0 |
| FE-Penelec | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Grocery | High Bay Lighting | New | building | 4,581 | 15% | 0.2 | 15 | \$174,902 | 32% | 0.0 |
| FE-Penelec | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Grocery | High Bay Lighting | New | building | 4,581 | 30% | 0.3 | 15 | \$250,693 | 32% | 0.0 |
| FE-Penelec | Indoor Daylight Sensors | Lighting w/ No Controls | Grocery | High Bay Lighting | Existing | building | 4,581 | 28% | 0.3 | 8 | \$1,459 | 13% | 0.4 |
| FE-Penelec | Indoor Daylight Sensors | Lighting w/ No Controls | Grocery | High Bay Lighting | New | building | 4,581 | 4.0% | 0.04 | 8 | \$1,459 | 0% | 0.1 |
| FE-Penelec | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Grocery | High Bay Lighting | Early | Fixture | 7,972 | 92% | 1.3 | 13 | \$1,916 | 95% | 2.3 |
| FE-Penelec | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | Early | Fixture | 15,582 | 96% | 2.6 | 13 | \$1,916 | 95% | 4.7 |
| FE-Penelec | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Grocery | High Bay Lighting | New | Fixture | 6,059 | 92% | 1.0 | 13 | \$1,468 | 95% | 2.3 |
| FE-Penelec | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | New | Fixture | 11,842 | 96% | 2.0 | 13 | \$1,149 | 95% | 6.0 |
| FE-Penelec | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Grocery | High Bay Lighting | ROB | Fixture | 7,972 | 92% | 1.3 | 13 | \$1,468 | 95% | 3.0 |
| FE-Penelec | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | ROB | Fixture | 15,582 | 96% | 2.6 | 13 | \$1,149 | 95% | 7.9 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Grocery | High Bay Lighting | Early | Fixture | 2,645 | 67% | 0.3 | 13 | \$960 | 95% | 1.1 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Grocery | High Bay Lighting | Early | Fixture | 7,791 | 89% | 1.2 | 13 | \$960 | 95% | 4.4 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Grocery | High Bay Lighting | Early | Fixture | 2,138 | 59% | 0.2 | 13 | \$960 | 95% | 0.8 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Grocery | High Bay Lighting | New | Fixture | 2,010 | 67% | 0.2 | 13 | \$480 | 95% | 1.7 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Grocery | High Bay Lighting | New | Fixture | 5,921 | 89% | 0.9 | 13 | \$491 | 95% | 6.5 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Grocery | High Bay Lighting | New | Fixture | 1,625 | 59% | 0.2 | 13 | \$406 | 95% | 1.4 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Grocery | High Bay Lighting | ROB | Fixture | 2,645 | 67% | 0.3 | 13 | \$480 | 95% | 2.2 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Grocery | High Bay Lighting | ROB | Fixture | 7,791 | 89% | 1.2 | 13 | \$491 | 95% | 8.5 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Grocery | High Bay Lighting | ROB | Fixture | 2,138 | 59% | 0.2 | 13 | \$406 | 95% | 1.9 |
| FE-Penelec | Occupancy Sensor | Lighting w/ No Controls | Grocery | High Bay Lighting | Existing | building | 4,581 | 24% | 0.2 | 8 | \$447 | 12% | 1.1 |
| FE-Penelec | Occupancy Sensor | Lighting w/ No Controls | Grocery | High Bay Lighting | New | building | 4,581 | 6.9% | 0.07 | 8 | \$447 | 0% | 0.3 |
| FE-Penelec | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Grocery | High Bay Lighting | Existing | building | 4,581 | 28% | 0.3 | 8 | \$1,459 | 12% | 0.4 |
| FE-Penelec | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Grocery | High Bay Lighting | New | building | 4,581 | 4.0% | 0.04 | 8 | \$1,459 | 0% | 0.1 |
| FE-Penelec | Time Clock Control | Lighting w/ No Controls | Grocery | High Bay Lighting | Existing | building | 4,581 | 28% | 0.3 | 8 | \$296 | 13% | 1.9 |
| FE-Penelec | Time Clock Control | Lighting w/ No Controls | Grocery | High Bay Lighting | New | building | 4,581 | 4.0% | 0.04 | 8 | \$296 | 0% | 0.3 |
| FE-Penelec | Auto Off Time Switch | Lighting w/ No Controls | Grocery | Lin. Fluor. Lighting | Existing | building | 34,555 | 24% | 0.2 | 8 | \$296 | 13% | 9.2 |
| FE-Penelec | Auto Off Time Switch | Lighting w/ No Controls | Grocery | Lin. Fluor. Lighting | New | building | 34,555 | 7.0% | 0.07 | 8 | \$296 | 0% | 2.7 |
| FE-Penelec | Central Lighting Control System | Lighting w/ No Controls | Grocery | Lin. Fluor. Lighting | Existing | building | 34,555 | 38% | 0.4 | 8 | \$296 | 12% | 14.5 |
| FE-Penelec | Central Lighting Control System | Lighting w/ No Controls | Grocery | Lin. Fluor. Lighting | New | building | 34,555 | 14% | 0.1 | 8 | \$296 | 12% | 5.3 |
| FE-Penelec | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Grocery | Lin. Fluor. Lighting | New | building | 34,555 | 10% | 0.1 | 15 | \$69,961 | 32% | 0.0 |
| FE-Penelec | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Grocery | Lin. Fluor. Lighting | New | building | 34,555 | 15% | 0.2 | 15 | \$174,902 | 32% | 0.0 |
| FE-Penelec | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Grocery | Lin. Fluor. Lighting | New | building | 34,555 | 30% | 0.3 | 15 | \$250,693 | 32% | 0.0 |
| FE-Penelec | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Grocery | Lin. Fluor. Lighting | Early | Lamp | 312 | 38% | 0.02 | 7 | \$7.3 | 94% | 5.9 |
| FE-Penelec | Indoor Daylight Sensors | Lighting w/ No Controls | Grocery | Lin. Fluor. Lighting | Existing | building | 34,555 | 28% | 0.3 | 8 | \$1,459 | 13% | 2.2 |
| FE-Penelec | Indoor Daylight Sensors | Lighting w/ No Controls | Grocery | Lin. Fluor. Lighting | New | building | 34,555 | 4.1% | 0.04 | 8 | \$1,459 | 0% | 0.3 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | Early | Lamp | 165 | 19% | 0.01 | 8 | \$35 | 94% | 0.4 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 40W T12 Lamp, Magnetic Ballast | Grocery | Lin. Fluor. Lighting | Early | Lamp | 363 | 63% | 0.04 | 8 | \$35 | 94% | 2.7 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | Early | Lamp | 204 | 34% | 0.01 | 8 | \$35 | 94% | 0.8 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | Early | Lamp | 197 | 32% | 0.01 | 8 | \$35 | 94% | 0.7 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | New | Lamp | 126 | 19% | 0.00 | 8 | \$28 | 94% | 0.4 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|--|--|---------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | New | Lamp | 150 | 32% | 0.01 | 8 | \$29 | 94% | 0.7 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | New | Lamp | 155 | 34% | 0.01 | 8 | \$22 | 94% | 1.0 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | New | Lamp | 150 | 32% | 0.01 | 8 | \$29 | 94% | 0.7 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | ROB | Lamp | 165 | 19% | 0.01 | 8 | \$28 | 94% | 0.5 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | ROB | Lamp | 197 | 32% | 0.01 | 8 | \$29 | 94% | 0.9 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | ROB | Lamp | 204 | 34% | 0.01 | 8 | \$22 | 94% | 1.3 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | ROB | Lamp | 197 | 32% | 0.01 | 8 | \$29 | 94% | 0.9 |
| FE-Penelec | Occupancy Sensor | Lighting w/ No Controls | Grocery | Lin. Fluor. Lighting | Existing | building | 34,555 | 24% | 0.2 | 8 | \$447 | 13% | 6.1 |
| FE-Penelec | Occupancy Sensor | Lighting w/ No Controls | Grocery | Lin. Fluor. Lighting | New | building | 34,555 | 7.0% | 0.07 | 8 | \$447 | 0% | 1.8 |
| FE-Penelec | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Grocery | Lin. Fluor. Lighting | Existing | building | 34,555 | 28% | 0.3 | 8 | \$1,459 | 12% | 2.2 |
| FE-Penelec | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Grocery | Lin. Fluor. Lighting | New | building | 34,555 | 4.1% | 0.04 | 8 | \$1,459 | 0% | 0.3 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 40W T12 w/ Magnetic Ballast | Grocery | Lin. Fluor. Lighting | Early | Lamp | 312 | 54% | 0.03 | 7 | \$9.1 | 94% | 6.7 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | Early | Lamp | 200 | 28% | 0.01 | 7 | \$9.1 | 24% | 2.2 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | Early | Lamp | 194 | 26% | 0.01 | 7 | \$9.1 | 94% | 2.0 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | New | Lamp | 147 | 26% | 0.01 | 7 | \$2.5 | 94% | 5.5 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | New | Lamp | 147 | 26% | 0.01 | 7 | \$2.5 | 94% | 5.5 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | New | Lamp | 152 | 28% | 0.01 | 7 | \$2.5 | 24% | 6.1 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | New | Lamp | 147 | 26% | 0.01 | 7 | \$2.5 | 94% | 5.5 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | ROB | Lamp | 194 | 26% | 0.01 | 7 | \$2.5 | 94% | 7.2 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | ROB | Lamp | 194 | 26% | 0.01 | 7 | \$2.5 | 94% | 7.2 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | ROB | Lamp | 200 | 28% | 0.01 | 7 | \$2.5 | 24% | 8.1 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | ROB | Lamp | 194 | 26% | 0.01 | 7 | \$2.5 | 94% | 7.2 |
| FE-Penelec | T8 Lamp (any length) Electronic Ballast | Standard T12 lamp (any length) | Grocery | Lin. Fluor. Lighting | Early | Lamp | 367 | 42% | 0.02 | 7 | \$14 | 94% | 4.0 |
| FE-Penelec | Time Clock Control | Lighting w/ No Controls | Grocery | Lin. Fluor. Lighting | Existing | building | 34,555 | 28% | 0.3 | 8 | \$296 | 14% | 10.7 |
| FE-Penelec | Time Clock Control | Lighting w/ No Controls | Grocery | Lin. Fluor. Lighting | New | building | 34,555 | 4.1% | 0.04 | 8 | \$296 | 0% | 1.6 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | Early | motor | 4,539 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.3 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | Early | motor | 4,539 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.3 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | Early | motor | 4,539 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.3 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | Early | motor | 4,539 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.3 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | Early | motor | 4,539 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.3 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | New | motor | 4,400 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | New | motor | 4,400 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | New | motor | 4,400 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | New | motor | 4,400 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | ROB | motor | 4,400 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | ROB | motor | 4,400 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | ROB | motor | 4,400 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | ROB | motor | 4,400 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | ROB | motor | 4,400 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| FE-Penelec | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | Early | motor | 6,692 | 3.1% | 0.03 | 15 | \$402 | 76% | 0.3 |
| FE-Penelec | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | Early | motor | 6,692 | 3.1% | 0.03 | 15 | \$402 | 76% | 0.3 |
| FE-Penelec | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | Early | motor | 6,692 | 3.1% | 0.03 | 15 | \$402 | 76% | 0.3 |
| FE-Penelec | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | Early | motor | 6,692 | 3.1% | 0.03 | 15 | \$402 | 76% | 0.3 |
| FE-Penelec | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | Early | motor | 6,692 | 3.1% | 0.03 | 15 | \$402 | 76% | 0.3 |
| FE-Penelec | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | New | motor | 6,524 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.4 |
| FE-Penelec | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | New | motor | 6,524 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.4 |
| FE-Penelec | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | New | motor | 6,524 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.4 |
| FE-Penelec | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | New | motor | 6,524 | 0.6% | 0.01 | 15 | \$60 | 76% | 0.4 |
| FE-Penelec | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | New | motor | 6,524 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.4 |
| FE-Penelec | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | ROB | motor | 6,524 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.4 |
| FE-Penelec | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | ROB | motor | 6,524 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.4 |
| FE-Penelec | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | ROB | motor | 6,524 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.4 |
| FE-Penelec | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | ROB | motor | 6,524 | 0.6% | 0.01 | 15 | \$60 | 76% | 0.4 |
| FE-Penelec | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | ROB | motor | 6,524 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.4 |
| FE-Penelec | 100 HP Motor, Ultra-PE | 100 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | Early | motor | 399,079 | 1.7% | 0.9 | 15 | \$5,100 | 47% | 0.8 |
| FE-Penelec | 100 HP Motor, Ultra-PE | 100 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | Early | motor | 399,079 | 1.7% | 0.9 | 15 | \$5,100 | 47% | 0.8 |
| FE-Penelec | 100 HP Motor, Ultra-PE | 100 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | Early | motor | 399,079 | 1.7% | 0.9 | 15 | \$5,100 | 47% | 0.8 |
| FE-Penelec | 100 HP Motor, Ultra-PE | 100 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | Early | motor | 399,079 | 1.7% | 1.0 | 15 | \$5,100 | 47% | 0.9 |
| FE-Penelec | 100 HP Motor, Ultra-PE | 100 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | Early | motor | 399,079 | 1.7% | 0.9 | 15 | \$5,100 | 47% | 0.8 |
| FE-Penelec | 100 HP Motor, Ultra-PE | 100 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | New | motor | 394,348 | 0.5% | 0.3 | 15 | \$658 | 47% | 2.0 |
| FE-Penelec | 100 HP Motor, Ultra-PE | 100 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | New | motor | 394,348 | 0.5% | 0.3 | 15 | \$658 | 47% | 2.0 |
| FE-Penelec | 100 HP Motor, Ultra-PE | 100 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | New | motor | 394,348 | 0.5% | 0.3 | 15 | \$658 | 47% | 2.1 |
| FE-Penelec | 100 HP Motor, Ultra-PE | 100 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | New | motor | 394,348 | 0.5% | 0.3 | 15 | \$658 | 47% | 2.0 |
| FE-Penelec | 100 HP Motor, Ultra-PE | 100 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | ROB | motor | 394,348 | 0.5% | 0.3 | 15 | \$658 | 47% | 2.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|--|---------|---------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Grocery | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 21.8 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Grocery | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 22.2 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Grocery | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 22.9 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Grocery | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 23.3 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Grocery | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 23.8 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Grocery | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 21.6 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Grocery | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 22.4 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Grocery | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 22.6 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Grocery | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 23.3 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Grocery | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 23.7 |
| FE-Penelec | Escalator Motor Controller | Constant power control | Grocery | Motors | New | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 22% | 5.9 |
| FE-Penelec | Escalator Motor Controller | Constant power control | Grocery | Motors | ROB | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 22% | 5.9 |
| FE-Penelec | Variable Speed Drive Control, 15HP | Existing Motors w/out VSD Drive | Grocery | Motors | Early | motor | 62,012 | 70% | 6.4 | 15 | \$731 | 86% | 39.7 |
| FE-Penelec | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Grocery | Motors | New | motor | 60,679 | 72% | 6.4 | 15 | \$731 | 86% | 39.7 |
| FE-Penelec | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Grocery | Motors | ROB | motor | 60,679 | 72% | 6.4 | 15 | \$731 | 86% | 39.7 |
| FE-Penelec | Variable Speed Drive Control, 40HP | Existing Motors w/out VSD Drive | Grocery | Motors | Early | motor | 161,810 | 71% | 16.8 | 15 | \$4,666 | 86% | 16.4 |
| FE-Penelec | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Grocery | Motors | New | motor | 159,918 | 72% | 16.8 | 15 | \$4,666 | 86% | 16.4 |
| FE-Penelec | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Grocery | Motors | ROB | motor | 159,918 | 72% | 16.8 | 15 | \$4,666 | 86% | 16.4 |
| FE-Penelec | Variable Speed Drive Control, 5HP | Existing Motors w/out VFD Drive | Grocery | Motors | Early | motor | 21,498 | 70% | 2.2 | 15 | \$2,243 | 86% | 4.5 |
| FE-Penelec | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Grocery | Motors | New | motor | 21,017 | 72% | 2.2 | 15 | \$2,243 | 86% | 4.5 |
| FE-Penelec | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Grocery | Motors | ROB | motor | 21,017 | 72% | 2.2 | 15 | \$2,243 | 86% | 4.5 |
| FE-Penelec | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Grocery | Motors | Early | motor | 3,452 | 32% | 0.1 | 15 | \$268 | 86% | 2.6 |
| FE-Penelec | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Grocery | Motors | New | motor | 3,452 | 32% | 0.1 | 15 | \$268 | 86% | 2.6 |
| FE-Penelec | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Grocery | Motors | ROB | motor | 3,452 | 32% | 0.1 | 15 | \$268 | 86% | 2.6 |
| FE-Penelec | VFD on Chilled Water Pump | Motor w/out VFD Drive | Grocery | Motors | Early | motor | 15,151 | 54% | 2.7 | 15 | \$2,903 | 86% | 2.3 |
| FE-Penelec | VFD on Chilled Water Pump | Motor w/out VFD Drive | Grocery | Motors | New | motor | 14,867 | 55% | 2.7 | 15 | \$2,843 | 86% | 2.3 |
| FE-Penelec | VFD on Chilled Water Pump | Motor w/out VFD Drive | Grocery | Motors | ROB | motor | 14,867 | 55% | 2.7 | 15 | \$2,843 | 86% | 2.3 |
| FE-Penelec | VFD on Condenser Water Pump | Motor w/out VFD Drive | Grocery | Motors | Early | motor | 15,040 | 32% | 3.2 | 15 | \$2,903 | 86% | 1.9 |
| FE-Penelec | VFD on Condenser Water Pump | Motor w/out VFD Drive | Grocery | Motors | New | motor | 14,759 | 33% | 3.1 | 15 | \$2,843 | 86% | 1.9 |
| FE-Penelec | VFD on Condenser Water Pump | Motor w/out VFD Drive | Grocery | Motors | ROB | motor | 14,759 | 33% | 3.1 | 15 | \$2,843 | 86% | 1.9 |
| FE-Penelec | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Grocery | Motors | Early | motor | 31,171 | 56% | 0.00 | 15 | \$2,903 | 86% | 3.0 |
| FE-Penelec | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Grocery | Motors | New | motor | 30,588 | 57% | 0.00 | 15 | \$2,843 | 86% | 3.1 |
| FE-Penelec | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Grocery | Motors | ROB | motor | 30,588 | 57% | 0.00 | 15 | \$2,843 | 86% | 3.1 |
| FE-Penelec | VFD on HVAC Fan | Motor w/out VFD | Grocery | Motors | Early | motor | 15,151 | 70% | 3.4 | 15 | \$2,903 | 86% | 3.0 |
| FE-Penelec | VFD on HVAC Fan | Motor w/out VFD | Grocery | Motors | New | motor | 14,867 | 72% | 3.3 | 15 | \$2,843 | 86% | 3.1 |
| FE-Penelec | VFD on HVAC Fan | Motor w/out VFD | Grocery | Motors | ROB | motor | 14,867 | 72% | 3.3 | 15 | \$2,843 | 86% | 3.1 |
| FE-Penelec | Variable Speed Drives on Process Equipment | Constant speed control | Grocery | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 10.6 |
| FE-Penelec | Variable Speed Drives on Process Equipment | Constant speed control | Grocery | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 10.6 |
| FE-Penelec | Auto Off Time Switch | Lighting w/ No Controls | Grocery | Other Int. Lighting | Existing | building | 14,460 | 24% | 0.2 | 8 | \$296 | 13% | 4.1 |
| FE-Penelec | Auto Off Time Switch | Lighting w/ No Controls | Grocery | Other Int. Lighting | New | building | 14,460 | 7.0% | 0.07 | 8 | \$296 | 0% | 1.2 |
| FE-Penelec | Central Lighting Control System | Lighting w/ No Controls | Grocery | Other Int. Lighting | Existing | building | 14,460 | 38% | 0.4 | 8 | \$296 | 13% | 6.5 |
| FE-Penelec | Central Lighting Control System | Lighting w/ No Controls | Grocery | Other Int. Lighting | New | building | 14,460 | 14% | 0.1 | 8 | \$296 | 13% | 2.4 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 40W Incandescent Bulb | Grocery | Other Int. Lighting | Early | lamp | 382 | 87% | 0.06 | 4 | \$30 | 14% | 2.5 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Grocery | Other Int. Lighting | Early | lamp | 274 | 81% | 0.04 | 4 | \$30 | 11% | 1.7 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Grocery | Other Int. Lighting | New | lamp | 208 | 81% | 0.03 | 4 | \$21 | 14% | 1.8 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Grocery | Other Int. Lighting | New | lamp | 208 | 81% | 0.03 | 4 | \$23 | 14% | 1.7 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Grocery | Other Int. Lighting | New | lamp | 208 | 81% | 0.03 | 4 | \$22 | 11% | 1.7 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Grocery | Other Int. Lighting | ROB | lamp | 274 | 81% | 0.04 | 4 | \$21 | 14% | 2.4 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Grocery | Other Int. Lighting | ROB | lamp | 274 | 81% | 0.04 | 4 | \$23 | 14% | 2.2 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Grocery | Other Int. Lighting | ROB | lamp | 274 | 81% | 0.04 | 4 | \$22 | 11% | 2.3 |
| FE-Penelec | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Grocery | Other Int. Lighting | Early | lamp | 382 | 75% | 0.05 | 2 | \$73 | 39% | 0.5 |
| FE-Penelec | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Grocery | Other Int. Lighting | New | fixture | 416 | 65% | 0.05 | 13 | \$29 | 46% | 5.7 |
| FE-Penelec | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Grocery | Other Int. Lighting | New | lamp | 208 | 65% | 0.02 | 2 | \$29 | 46% | 0.6 |
| FE-Penelec | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Grocery | Other Int. Lighting | ROB | fixture | 547 | 65% | 0.06 | 13 | \$29 | 39% | 7.5 |
| FE-Penelec | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Grocery | Other Int. Lighting | ROB | lamp | 274 | 65% | 0.03 | 2 | \$29 | 39% | 0.7 |
| FE-Penelec | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Grocery | Other Int. Lighting | Early | lamp | 382 | 75% | 0.05 | 2 | \$3.2 | 24% | 10.8 |
| FE-Penelec | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Grocery | Other Int. Lighting | New | lamp | 208 | 65% | 0.02 | 2 | \$1.8 | 24% | 9.2 |
| FE-Penelec | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Grocery | Other Int. Lighting | ROB | lamp | 274 | 65% | 0.03 | 2 | \$1.8 | 24% | 12.1 |
| FE-Penelec | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Grocery | Other Int. Lighting | ROB | lamp | 274 | 65% | 0.03 | 2 | \$1.8 | 24% | 12.1 |
| FE-Penelec | Exit Sign Retrofit: CFL replacing Incandescent | One 23W Single Sided Incandescent Exit Sign | Grocery | Other Int. Lighting | Early | exit sign | 134 | 42% | 0.01 | 15 | \$48 | 22% | 0.8 |
| FE-Penelec | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Grocery | Other Int. Lighting | New | building | 14,460 | 10% | 0.1 | 15 | \$69,961 | 32% | 0.0 |
| FE-Penelec | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Grocery | Other Int. Lighting | New | building | 14,460 | 15% | 0.2 | 15 | \$174,902 | 32% | 0.0 |
| FE-Penelec | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Grocery | Other Int. Lighting | New | building | 14,460 | 30% | 0.3 | 15 | \$250,693 | 32% | 0.0 |
| FE-Penelec | Indoor Daylight Sensors | Lighting w/ No Controls | Grocery | Other Int. Lighting | Existing | building | 14,460 | 28% | 0.3 | 8 | \$1,459 | 13% | 1.0 |
| FE-Penelec | Indoor Daylight Sensors | Lighting w/ No Controls | Grocery | Other Int. Lighting | New | building | 14,460 | 4.1% | 0.04 | 8 | \$1,459 | 0% | 0.1 |
| FE-Penelec | LED Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Grocery | Other Int. Lighting | Early | sign | 153 | 87% | 0.02 | 15 | \$48 | 16% | 1.8 |
| FE-Penelec | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Grocery | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 2.0 |
| FE-Penelec | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Grocery | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 2.0 |
| FE-Penelec | LED Task Lighting/Screw-In | 1 15W CFL bulb | Grocery | Other Int. Lighting | Early | lamp | 115 | 33% | 0.01 | 3 | \$9.6 | 24% | 0.7 |
| FE-Penelec | LED Task Lighting/Screw-In | 1 60W Incandescent Bulb | Grocery | Other Int. Lighting | Early | lamp | 460 | 83% | 0.06 | 3 | \$9.6 | 24% | 6.8 |
| FE-Penelec | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Grocery | Other Int. Lighting | New | lamp | 251 | 77% | 0.03 | 3 | \$7.9 | 24% | 4.1 |
| FE-Penelec | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Grocery | Other Int. Lighting | New | lamp | 251 | 77% | 0.03 | 3 | \$7.9 | 24% | 4.1 |
| FE-Penelec | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Grocery | Other Int. Lighting | ROB | lamp | 330 | 77% | 0.04 | 3 | \$7.9 | 24% | 5.4 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|---|---------|---------------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Grocery | Other Int. Lighting | ROB | lamp | 330 | 77% | 0.04 | 3 | \$7.9 | 24% | 5.4 |
| FE-Penelec | Occupancy Sensor | Lighting w/ No Controls | Grocery | Other Int. Lighting | Existing | building | 14,460 | 24% | 0.2 | 8 | \$447 | 12% | 2.7 |
| FE-Penelec | Occupancy Sensor | Lighting w/ No Controls | Grocery | Other Int. Lighting | New | building | 14,460 | 7.0% | 0.07 | 8 | \$447 | 0% | 0.8 |
| FE-Penelec | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Grocery | Other Int. Lighting | Existing | building | 14,460 | 28% | 0.3 | 8 | \$1,459 | 12% | 1.0 |
| FE-Penelec | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Grocery | Other Int. Lighting | New | building | 14,460 | 4.1% | 0.04 | 8 | \$1,459 | 0% | 0.1 |
| FE-Penelec | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Grocery | Other Int. Lighting | Early | exit sign | 134 | 100% | 0.02 | 15 | \$173 | 26% | 0.5 |
| FE-Penelec | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Grocery | Other Int. Lighting | New | exit sign | 77 | 100% | 0.01 | 15 | \$148 | 31% | 0.3 |
| FE-Penelec | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Grocery | Other Int. Lighting | ROB | exit sign | 77 | 100% | 0.01 | 15 | \$148 | 26% | 0.3 |
| FE-Penelec | Time Clock Control | Lighting w/ No Controls | Grocery | Other Int. Lighting | Existing | building | 14,460 | 28% | 0.3 | 8 | \$296 | 13% | 4.8 |
| FE-Penelec | Time Clock Control | Lighting w/ No Controls | Grocery | Other Int. Lighting | New | building | 14,460 | 4.1% | 0.04 | 8 | \$296 | 0% | 0.7 |
| FE-Penelec | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Grocery | Plug Load | Existing | building | 1,510 | 46% | 0.5 | 5 | \$189 | 4% | 1.7 |
| FE-Penelec | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Grocery | Plug Load | New | building | 1,510 | 46% | 0.5 | 5 | \$189 | 4% | 1.7 |
| FE-Penelec | Data Center - Server/Storage Consolidation | No Consolidation | Grocery | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penelec | Data Center - Server/Storage Consolidation | No Consolidation | Grocery | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penelec | Data Center - Server/Storage Virtualization | No Virtualization | Grocery | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penelec | Data Center - Server/Storage Virtualization | No Virtualization | Grocery | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penelec | Energy Star - Scanners | Std Scanner | Grocery | Plug Load | New | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| FE-Penelec | Energy Star - Scanners | Std Scanner | Grocery | Plug Load | ROB | measure | 68 | 3.8% | 0.04 | 4 | \$130 | 7% | 0.1 |
| FE-Penelec | Energy Star Battery Charging System (for small cordless products) | Std. Battery Charging System | Grocery | Plug Load | ROB | measure | 593 | 2.3% | 0.10 | 5 | \$65 | 4% | 0.6 |
| FE-Penelec | Energy Star Dishwasher | Existing Dishwasher units | Grocery | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,550 | 16% | 1.0 |
| FE-Penelec | Energy Star Dishwasher | Standard Dishwasher unit | Grocery | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,003 | 16% | 3.5 |
| FE-Penelec | Energy Star Dishwasher | Standard Dishwasher unit | Grocery | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,003 | 16% | 3.5 |
| FE-Penelec | Energy Star External Power Adapter | Std. Power Adapter | Grocery | Plug Load | New | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| FE-Penelec | Energy Star External Power Adapter | Std. Power Adapter | Grocery | Plug Load | ROB | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| FE-Penelec | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Grocery | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 17% | 0.2 |
| FE-Penelec | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Grocery | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.0 |
| FE-Penelec | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Grocery | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.0 |
| FE-Penelec | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Grocery | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 9% | 0.8 |
| FE-Penelec | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Grocery | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.7 |
| FE-Penelec | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Grocery | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.7 |
| FE-Penelec | ENERGY STAR® Copiers | 10% Less Efficient Copier | Grocery | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 18% | 0.0 |
| FE-Penelec | ENERGY STAR® Copiers | One Conventional Copier | Grocery | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| FE-Penelec | ENERGY STAR® Copiers | One Conventional Copier | Grocery | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| FE-Penelec | ENERGY STAR® desktop | Standard computer | Grocery | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 69% | 0.1 |
| FE-Penelec | ENERGY STAR® desktop | Standard computer | Grocery | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.3 |
| FE-Penelec | ENERGY STAR® desktop | Standard computer | Grocery | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.3 |
| FE-Penelec | ENERGY STAR® Fax | 10% Less Efficient Fax | Grocery | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 15% | 0.0 |
| FE-Penelec | ENERGY STAR® Fax | One Conventional Fax | Grocery | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| FE-Penelec | ENERGY STAR® Fax | One Conventional Fax | Grocery | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| FE-Penelec | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Grocery | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 70% | 0.0 |
| FE-Penelec | ENERGY STAR® Monitors | One Conventional Monitor | Grocery | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| FE-Penelec | ENERGY STAR® Monitors | One Conventional Monitor | Grocery | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| FE-Penelec | ENERGY STAR® Printers | 10% Less Efficient Printer | Grocery | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 44% | 0.0 |
| FE-Penelec | ENERGY STAR® Printers | One Conventional Printer | Grocery | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| FE-Penelec | ENERGY STAR® Printers | One Conventional Printer | Grocery | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| FE-Penelec | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Grocery | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 43% | 0.1 |
| FE-Penelec | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Grocery | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.7 |
| FE-Penelec | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Grocery | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.7 |
| FE-Penelec | ENERGY STAR® Televisions | 10% Less Efficient Television | Grocery | Plug Load | Early | Unit | 505 | 38% | 0.03 | 6 | \$672 | 40% | 0.1 |
| FE-Penelec | ENERGY STAR® Televisions | One Conventional Television | Grocery | Plug Load | New | Unit | 459 | 32% | 0.02 | 6 | \$206 | 40% | 0.2 |
| FE-Penelec | ENERGY STAR® Televisions | One Conventional Television | Grocery | Plug Load | ROB | Unit | 459 | 32% | 0.02 | 6 | \$206 | 40% | 0.2 |
| FE-Penelec | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Grocery | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 24% | 0.3 |
| FE-Penelec | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Grocery | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.6 |
| FE-Penelec | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Grocery | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.6 |
| FE-Penelec | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Grocery | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.3 |
| FE-Penelec | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Grocery | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.3 |
| FE-Penelec | Network PC Power Management | No PC Power Management | Grocery | Plug Load | Existing | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 8.4 |
| FE-Penelec | Network PC Power Management | No PC Power Management | Grocery | Plug Load | New | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 8.4 |
| FE-Penelec | Smart Strip Plug Outlets | Standard plug strip/outlet | Grocery | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.4 |
| FE-Penelec | Smart Strip Plug Outlets | Standard plug strip/outlet | Grocery | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.4 |
| FE-Penelec | Smart Strip Plug Outlets | Standard plug strip/outlet | Grocery | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Penelec | Smart Strip Plug Outlets | Standard plug strip/outlet | Grocery | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Penelec | Smart Strip Plug Outlets | Standard plug strip/outlet | Grocery | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Penelec | Smart Strip Plug Outlets | Standard plug strip/outlet | Grocery | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Penelec | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Grocery | Plug Load | Existing | building | 1,510 | 46% | 0.5 | 5 | \$180 | 3% | 1.8 |
| FE-Penelec | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Grocery | Plug Load | New | building | 1,510 | 46% | 0.5 | 5 | \$180 | 3% | 1.8 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|--|---------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Air curtain technology | Strip plastic curtain | Grocery | Refrigeration | New | building | 74,603 | 3.1% | 0.03 | 8 | \$131 | 35% | 5.3 |
| FE-Penelec | Air curtain technology | Strip plastic curtain | Grocery | Refrigeration | New | building | 40,499 | 3.1% | 0.03 | 8 | \$133 | 35% | 2.9 |
| FE-Penelec | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Grocery | Refrigeration | Existing | building | 89,523 | 0.7% | 0.01 | 12 | \$70 | 11% | 3.8 |
| FE-Penelec | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Grocery | Refrigeration | New | building | 89,523 | 0.7% | 0.01 | 12 | \$70 | 11% | 3.8 |
| FE-Penelec | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Grocery | Refrigeration | Existing | building | 89,523 | 1.5% | 0.02 | 12 | \$70 | 11% | 7.9 |
| FE-Penelec | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Grocery | Refrigeration | New | building | 89,523 | 1.5% | 0.02 | 12 | \$70 | 11% | 7.9 |
| FE-Penelec | Auto Closer on Refrigerator Door | Door w/out Autocloser | Grocery | Refrigeration | Existing | building | 74,603 | 1.4% | 0.01 | 8 | \$817 | 40% | 0.4 |
| FE-Penelec | Auto Closer on Refrigerator Door | Door w/out Autocloser | Grocery | Refrigeration | Existing | building | 40,499 | 1.1% | 0.01 | 8 | \$1,208 | 40% | 0.1 |
| FE-Penelec | Auto Closer on Refrigerator Door | Door w/out Autocloser | Grocery | Refrigeration | New | building | 74,603 | 1.4% | 0.01 | 8 | \$817 | 40% | 0.4 |
| FE-Penelec | Auto Closer on Refrigerator Door | Door w/out Autocloser | Grocery | Refrigeration | New | building | 40,499 | 1.1% | 0.01 | 8 | \$1,208 | 40% | 0.1 |
| FE-Penelec | Demand Hot Gas Defrost | Base Refrigeration System | Grocery | Refrigeration | Existing | measure | 89,523 | 3.0% | 0.03 | 10 | \$1,303 | 83% | 0.7 |
| FE-Penelec | Demand Hot Gas Defrost | Base Refrigeration System | Grocery | Refrigeration | New | measure | 89,523 | 3.0% | 0.03 | 10 | \$1,303 | 79% | 0.7 |
| FE-Penelec | Door Gasket- Freezer | Door w/out Gasket | Grocery | Refrigeration | Existing | building | 74,603 | 0.9% | 0.01 | 4 | \$84 | 29% | 1.3 |
| FE-Penelec | Door Gasket- Freezer | Door w/out Gasket | Grocery | Refrigeration | New | building | 74,603 | 0.9% | 0.01 | 4 | \$84 | 29% | 1.3 |
| FE-Penelec | Door Gasket- Refrigerator | Door w/out Gasket | Grocery | Refrigeration | Existing | building | 40,499 | 0.4% | 0.00 | 4 | \$167 | 45% | 0.2 |
| FE-Penelec | Door Gasket- Refrigerator | Door w/out Gasket | Grocery | Refrigeration | New | building | 40,499 | 0.4% | 0.00 | 4 | \$167 | 45% | 0.2 |
| FE-Penelec | Economizer for Walk-in Coolers | No Economizer | Grocery | Refrigeration | Early | measure | 213,168 | 12% | 3.6 | 10 | \$2,237 | 72% | 5.1 |
| FE-Penelec | Economizer for Walk-in Coolers | No Economizer | Grocery | Refrigeration | Early | measure | 213,168 | 12% | 3.6 | 10 | \$2,237 | 72% | 5.1 |
| FE-Penelec | Economizer for Walk-in Coolers | No Economizer | Grocery | Refrigeration | Early | measure | 213,168 | 12% | 3.6 | 10 | \$2,237 | 72% | 5.1 |
| FE-Penelec | Economizer for Walk-in Coolers | No Economizer | Grocery | Refrigeration | New | measure | 213,168 | 12% | 3.6 | 10 | \$176 | 72% | 65.4 |
| FE-Penelec | Economizer for Walk-in Coolers | No Economizer | Grocery | Refrigeration | New | measure | 213,168 | 12% | 3.6 | 10 | \$176 | 72% | 65.4 |
| FE-Penelec | Economizer for Walk-in Coolers | No Economizer | Grocery | Refrigeration | New | measure | 213,168 | 12% | 3.6 | 10 | \$176 | 72% | 65.4 |
| FE-Penelec | Economizer for Walk-in Coolers | No Economizer | Grocery | Refrigeration | ROB | measure | 213,168 | 12% | 3.6 | 10 | \$176 | 72% | 65.4 |
| FE-Penelec | Economizer for Walk-in Coolers | No Economizer | Grocery | Refrigeration | ROB | measure | 213,168 | 12% | 3.6 | 10 | \$176 | 72% | 65.4 |
| FE-Penelec | Economizer for Walk-in Coolers | No Economizer | Grocery | Refrigeration | ROB | measure | 213,168 | 12% | 3.6 | 10 | \$176 | 72% | 65.5 |
| FE-Penelec | eCube | Refrigeration unit w/out eCube | Grocery | Refrigeration | Existing | building | 40,499 | 15% | 0.2 | 15 | \$637 | 57% | 5.0 |
| FE-Penelec | eCube | Refrigeration unit w/out eCube | Grocery | Refrigeration | New | building | 40,499 | 15% | 0.2 | 15 | \$637 | 57% | 5.0 |
| FE-Penelec | Efficient compressor motor | Base Refrigeration System - Grocery | Grocery | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 83% | 2.6 |
| FE-Penelec | Efficient compressor motor | Base Refrigeration System - Grocery | Grocery | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 83% | 2.6 |
| FE-Penelec | Efficient compressor motor | Base Refrigeration System - Grocery | Grocery | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 83% | 2.6 |
| FE-Penelec | Efficient compressor motor | Base Refrigeration System - Grocery | Grocery | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 83% | 2.6 |
| FE-Penelec | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Grocery | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.5 |
| FE-Penelec | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Grocery | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| FE-Penelec | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Grocery | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| FE-Penelec | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Grocery | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.3 |
| FE-Penelec | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Grocery | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.7 |
| FE-Penelec | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Grocery | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.7 |
| FE-Penelec | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Grocery | Refrigeration | Existing | building | 40,499 | 0.2% | 0.00 | 10 | \$369 | 77% | 0.1 |
| FE-Penelec | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Grocery | Refrigeration | New | building | 40,499 | 0.2% | 0.00 | 10 | \$369 | 77% | 0.1 |
| FE-Penelec | Floating head pressure controller | System w/out FHPC | Grocery | Refrigeration | Existing | building | 74,603 | 1.8% | 0.01 | 15 | \$8,682 | 41% | 0.1 |
| FE-Penelec | Floating head pressure controller | System w/out FHPC | Grocery | Refrigeration | Existing | building | 40,499 | 1.2% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penelec | Floating head pressure controller | System w/out FHPC | Grocery | Refrigeration | Existing | building | 89,523 | 0.6% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penelec | Floating head pressure controller | System w/out FHPC | Grocery | Refrigeration | New | building | 74,603 | 1.8% | 0.01 | 15 | \$8,682 | 41% | 0.1 |
| FE-Penelec | Floating head pressure controller | System w/out FHPC | Grocery | Refrigeration | New | building | 40,499 | 1.2% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penelec | Floating head pressure controller | System w/out FHPC | Grocery | Refrigeration | New | building | 89,523 | 0.6% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penelec | High Efficiency Commercial Freezer | Std. Commercial Freezer | Grocery | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 79% | 0.3 |
| FE-Penelec | High Efficiency Commercial Freezer | Std. Commercial Freezer | Grocery | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 79% | 3.8 |
| FE-Penelec | High Efficiency Commercial Freezer | Std. Commercial Freezer | Grocery | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 79% | 3.8 |
| FE-Penelec | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Grocery | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 79% | 0.1 |
| FE-Penelec | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Grocery | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 79% | 0.8 |
| FE-Penelec | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Grocery | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 79% | 0.8 |
| FE-Penelec | High Efficiency Ice Maker | Existing Standard Efficiency Ice Maker in Pennsylvania | Grocery | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 69% | 0.1 |
| FE-Penelec | High Efficiency Ice Maker | Standard code minimum Ice Maker | Grocery | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 69% | 0.2 |
| FE-Penelec | High Efficiency Ice Maker | Standard code minimum Ice Maker | Grocery | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 69% | 0.2 |
| FE-Penelec | High Efficiency Ice Making Head | Standard Ice Making Head | Grocery | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.7 |
| FE-Penelec | High Efficiency Ice Making Head | Standard Ice Making Head | Grocery | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.7 |
| FE-Penelec | High R-Value Glass Doors | Base Refrigeration System - Grocery | Grocery | Refrigeration | Existing | building | 89,523 | 0.7% | 0.01 | 10 | \$312 | 90% | 0.7 |
| FE-Penelec | High R-Value Glass Doors | Base Refrigeration System - Grocery | Grocery | Refrigeration | New | building | 89,523 | 0.7% | 0.01 | 10 | \$312 | 90% | 0.7 |
| FE-Penelec | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Grocery | Refrigeration | Early | Fixture | 373 | 56% | 0.03 | 8 | \$448 | 89% | 0.2 |
| FE-Penelec | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Grocery | Refrigeration | New | Fixture | 291 | 44% | 0.02 | 8 | \$139 | 89% | 0.3 |
| FE-Penelec | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Grocery | Refrigeration | ROB | Fixture | 291 | 44% | 0.02 | 8 | \$139 | 89% | 0.3 |
| FE-Penelec | No-heat glass doors | Standard low-temp reach-in | Grocery | Refrigeration | Existing | building | 89,523 | 20% | 0.2 | 10 | \$28,505 | 8% | 0.2 |
| FE-Penelec | No-heat glass doors | Standard low-temp reach-in | Grocery | Refrigeration | New | building | 89,523 | 20% | 0.2 | 10 | \$28,505 | 8% | 0.2 |
| FE-Penelec | Quick acting freezer doors | Std. Freezer Doors | Grocery | Refrigeration | Existing | building | 74,603 | 13% | 0.1 | 10 | \$16,773 | 56% | 0.2 |
| FE-Penelec | Quick acting freezer doors | Std. Freezer Doors | Grocery | Refrigeration | New | building | 74,603 | 13% | 0.1 | 10 | \$16,773 | 56% | 0.2 |
| FE-Penelec | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Grocery | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 29% | 0.4 |
| FE-Penelec | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Grocery | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 29% | 1.5 |
| FE-Penelec | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Grocery | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 29% | 1.5 |
| FE-Penelec | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 29% | 1.6 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|---|---------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 29% | 2.8 |
| FE-Penelec | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 29% | 2.8 |
| FE-Penelec | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 29% | 1.6 |
| FE-Penelec | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 29% | 3.8 |
| FE-Penelec | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 29% | 3.8 |
| FE-Penelec | Refrigeration Commissioning | Non-commissioned refrigeration system | Grocery | Refrigeration | Existing | building | 213,150 | 9.5% | 0.10 | 3 | \$35,188 | 85% | 0.1 |
| FE-Penelec | Refrigeration Commissioning | Non-commissioned refrigeration system | Grocery | Refrigeration | New | building | 213,150 | 9.5% | 0.10 | 3 | \$35,188 | 85% | 0.1 |
| FE-Penelec | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Grocery | Refrigeration | Existing | building | 74,603 | 1.8% | 0.02 | 4 | \$102 | 22% | 2.2 |
| FE-Penelec | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Grocery | Refrigeration | Existing | building | 40,499 | 0.5% | 0.01 | 4 | \$203 | 22% | 0.2 |
| FE-Penelec | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Grocery | Refrigeration | New | building | 74,603 | 1.8% | 0.02 | 4 | \$102 | 22% | 2.2 |
| FE-Penelec | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Grocery | Refrigeration | New | building | 40,499 | 0.5% | 0.01 | 4 | \$203 | 22% | 0.2 |
| FE-Penelec | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Grocery | Refrigeration | Existing | building | 74,603 | 0.4% | 0.00 | 11 | \$167 | 77% | 0.7 |
| FE-Penelec | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Grocery | Refrigeration | New | building | 74,603 | 0.4% | 0.00 | 11 | \$167 | 77% | 0.7 |
| FE-Penelec | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Grocery | Refrigeration | Existing | building | 40,499 | 0.3% | 0.00 | 11 | \$167 | 77% | 0.3 |
| FE-Penelec | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Grocery | Refrigeration | New | building | 40,499 | 0.3% | 0.00 | 11 | \$167 | 77% | 0.3 |
| FE-Penelec | Vendor Miser | No Vendor Miser | Grocery | Refrigeration | Existing | machine | 8,526 | 0.5% | 0.00 | 8 | \$38 | 7% | 0.4 |
| FE-Penelec | Vertical Night Covers | Display cases w/out night covers-High Temperature | Grocery | Refrigeration | Existing | building | 89,523 | 0.1% | 0.00 | 5 | \$242 | 9% | 0.1 |
| FE-Penelec | Vertical Night Covers | Display cases w/out night covers-High Temperature | Grocery | Refrigeration | New | building | 89,523 | 0.1% | 0.00 | 5 | \$242 | 9% | 0.1 |
| FE-Penelec | VSD Controlled Compressor | Compressor w/out VSD | Grocery | Refrigeration | Early | Refrigerator | 7,487 | 14% | 0.1 | 15 | \$731 | 73% | 0.9 |
| FE-Penelec | VSD Controlled Compressor | Compressor w/out VSD | Grocery | Refrigeration | New | Refrigerator | 7,487 | 14% | 0.1 | 15 | \$731 | 73% | 0.9 |
| FE-Penelec | VSD Controlled Compressor | Compressor w/out VSD | Grocery | Refrigeration | ROB | Refrigerator | 7,487 | 14% | 0.1 | 15 | \$731 | 73% | 0.9 |
| FE-Penelec | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Grocery | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$269 | 35% | 0.9 |
| FE-Penelec | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Grocery | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$269 | 35% | 0.8 |
| FE-Penelec | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Grocery | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.0 |
| FE-Penelec | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Grocery | Refrigeration | New | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 2.9 |
| FE-Penelec | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Grocery | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.0 |
| FE-Penelec | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Grocery | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 2.9 |
| FE-Penelec | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 35% | 2.3 |
| FE-Penelec | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 35% | 2.2 |
| FE-Penelec | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 4.9 |
| FE-Penelec | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.6 |
| FE-Penelec | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 4.9 |
| FE-Penelec | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.6 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Grocery | Space Heating | Existing | building | 16,424 | 7.1% | 0.07 | 6 | \$25,188 | 82% | 0.0 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Grocery | Space Heating | New | building | 16,424 | 7.1% | 0.07 | 6 | \$25,188 | 82% | 0.0 |
| FE-Penelec | Adding window shade film | No shade film | Grocery | Space Heating | Existing | building | 16,424 | 1.3% | 0.4 | 10 | \$200 | 13% | 1.7 |
| FE-Penelec | Adding window shade film | No shade film | Grocery | Space Heating | New | building | 16,424 | 1.3% | 0.4 | 10 | \$200 | 13% | 1.7 |
| FE-Penelec | Adding window shade screen | No shade screen | Grocery | Space Heating | Existing | building | 16,424 | 1.1% | 0.01 | 10 | \$77 | 13% | 0.9 |
| FE-Penelec | Adding window shade screen | No shade screen | Grocery | Space Heating | New | building | 16,424 | 1.1% | 0.01 | 10 | \$77 | 13% | 0.9 |
| FE-Penelec | Automated control system | Manual Controls | Grocery | Space Heating | Existing | building | 16,424 | 17% | 0.2 | 15 | \$17,980 | 51% | 0.1 |
| FE-Penelec | Automated control system | Manual Controls | Grocery | Space Heating | New | building | 16,424 | 17% | 0.2 | 15 | \$17,980 | 94% | 0.1 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Grocery | Space Heating | Existing | building | 16,424 | 9.8% | 0.10 | 15 | \$33,930 | 71% | 0.0 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Grocery | Space Heating | New | building | 16,424 | 3.3% | 0.03 | 15 | \$32,251 | 94% | 0.0 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Grocery | Space Heating | Existing | building | 16,424 | 1.4% | 0.04 | 15 | \$130 | 20% | 1.1 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Grocery | Space Heating | New | building | 16,424 | 1.4% | 0.04 | 15 | \$130 | 10% | 1.1 |
| FE-Penelec | Efficient Unit Heating System | Existing Unit Heaters in PA | Grocery | Space Heating | Early | heater | 24,206 | 23% | 0.04 | 15 | \$3,289 | 83% | 0.8 |
| FE-Penelec | Efficient Unit Heating System | Std. Unit Heater | Grocery | Space Heating | New | heater | 21,483 | 13% | 0.02 | 15 | \$1,991 | 83% | 0.7 |
| FE-Penelec | Efficient Unit Heating System | Std. Unit Heater | Grocery | Space Heating | ROB | heater | 21,483 | 13% | 0.02 | 15 | \$1,991 | 83% | 0.7 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Grocery | Space Heating | Existing | building | 16,424 | 7.1% | 0.07 | 15 | \$72,853 | 25% | 0.0 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Grocery | Space Heating | New | building | 16,424 | 7.1% | 0.07 | 15 | \$72,853 | 35% | 0.0 |
| FE-Penelec | Hi Eff HVAC System Design | No HVAC Design | Grocery | Space Heating | New | building | 16,424 | 9.3% | 0.09 | 10 | \$944,276 | 51% | 0.0 |
| FE-Penelec | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Grocery | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$76 | 80% | 1.0 |
| FE-Penelec | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Grocery | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$76 | 80% | 1.0 |
| FE-Penelec | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Grocery | Space Heating | Existing | building | 16,424 | 1.1% | 0.01 | 10 | \$7,735 | 81% | 0.0 |
| FE-Penelec | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Grocery | Space Heating | New | building | 16,424 | 1.1% | 0.01 | 10 | \$7,735 | 81% | 0.0 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Grocery | Space Heating | Existing | building | 16,424 | 3.6% | 0.04 | 11 | \$286 | 49% | 0.8 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Grocery | Space Heating | New | building | 16,424 | 3.1% | 0.03 | 11 | \$146 | 49% | 1.4 |
| FE-Penelec | Re-Commissioning (Existing Construction) | No Re-Commissioning | Grocery | Space Heating | Existing | building | 16,424 | 16% | 0.2 | 5 | \$19,254 | 86% | 0.0 |
| FE-Penelec | VFD on Cooling Tower Fan | Motor w/out VFD | Grocery | Space Heating | Early | motor | 15,151 | 70% | 3.4 | 15 | \$2,843 | 88% | 2.9 |
| FE-Penelec | VFD on Cooling Tower Fan | Motor w/out VFD | Grocery | Space Heating | New | motor | 14,867 | 72% | 3.3 | 15 | \$2,843 | 88% | 2.9 |
| FE-Penelec | VFD on Cooling Tower Fan | Motor w/out VFD | Grocery | Space Heating | ROB | motor | 14,867 | 72% | 3.3 | 15 | \$2,843 | 88% | 2.9 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|--|--|------------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Grocery | Space Heating | Existing | building | 16,424 | 19% | 0.2 | 15 | \$7,224 | 26% | 0.2 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Grocery | Space Heating | New | building | 16,424 | 0.5% | 0.01 | 15 | \$5,541 | 94% | 0.0 |
| FE-Penelec | Green LED Traffic Light | Green Incandescent Traffic Light | Grocery | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 0% | 1.2 |
| FE-Penelec | Green LED Traffic Light | Green Incandescent Traffic Light | Grocery | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| FE-Penelec | Green LED Traffic Light | Green Incandescent Traffic Light | Grocery | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| FE-Penelec | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Grocery | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 0% | 3.0 |
| FE-Penelec | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Grocery | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-Penelec | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Grocery | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-Penelec | Induction Street Lighting | One 100W HPS Street Light Fixture | Grocery | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 0% | 0.3 |
| FE-Penelec | Induction Street Lighting | One 100W HPS Street Light Fixture | Grocery | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.7 |
| FE-Penelec | Induction Street Lighting | One 100W HPS Street Light Fixture | Grocery | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.7 |
| FE-Penelec | LED Street Lighting | One 100W HPS Street Light | Grocery | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 0% | 0.2 |
| FE-Penelec | LED Street Lighting | One 100W HPS Street Light | Grocery | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-Penelec | LED Street Lighting | One 100W HPS Street Light | Grocery | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-Penelec | Red LED Traffic Light | One Red Incandescent Traffic Light | Grocery | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 0% | 1.6 |
| FE-Penelec | Red LED Traffic Light | One Red Incandescent Traffic Light | Grocery | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| FE-Penelec | Red LED Traffic Light | One Red Incandescent Traffic Light | Grocery | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| FE-Penelec | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Grocery | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 0% | 0.1 |
| FE-Penelec | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Grocery | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-Penelec | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Grocery | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-Penelec | Demand controlled Circulating Systems | Constant circulation system | Grocery | Water Heating | Existing | building | 1,417 | 20% | 0.2 | 15 | \$257 | 59% | 1.3 |
| FE-Penelec | Demand controlled Circulating Systems | Constant circulation system | Grocery | Water Heating | New | building | 1,417 | 20% | 0.2 | 15 | \$257 | 59% | 1.3 |
| FE-Penelec | Drainwater Heat Recovery Water Heater | No heat recovery | Grocery | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.9 |
| FE-Penelec | Drainwater Heat Recovery Water Heater | No heat recovery | Grocery | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.9 |
| FE-Penelec | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Grocery | Water Heating | Existing | building | 1,417 | 5.9% | 0.06 | 12 | \$28 | 85% | 3.0 |
| FE-Penelec | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Grocery | Water Heating | New | building | 1,417 | 5.9% | 0.06 | 12 | \$8.0 | 85% | 10.4 |
| FE-Penelec | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Grocery | Water Heating | Early | water heater | 86,559 | 66% | 10.1 | 10 | \$3,562 | 68% | 7.9 |
| FE-Penelec | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Grocery | Water Heating | Early | water heater | 86,559 | 66% | 10.1 | 10 | \$3,562 | 68% | 7.9 |
| FE-Penelec | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Grocery | Water Heating | New | water heater | 86,559 | 66% | 10.1 | 10 | \$3,562 | 68% | 7.9 |
| FE-Penelec | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Grocery | Water Heating | New | water heater | 86,559 | 66% | 10.1 | 10 | \$3,562 | 68% | 7.9 |
| FE-Penelec | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Grocery | Water Heating | ROB | water heater | 84,155 | 65% | 9.7 | 10 | \$3,562 | 68% | 7.6 |
| FE-Penelec | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Grocery | Water Heating | ROB | water heater | 84,155 | 65% | 9.7 | 10 | \$3,562 | 68% | 7.6 |
| FE-Penelec | Heat Recovery Unit | Base Water Heating | Grocery | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.6 |
| FE-Penelec | Heat Recovery Unit | Base Water Heating | Grocery | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.6 |
| FE-Penelec | Heat Trap | No Heat Trap | Grocery | Water Heating | Existing | building | 1,417 | 22% | 0.2 | 11 | \$9.6 | 50% | 30.4 |
| FE-Penelec | Heat Trap | No Heat Trap | Grocery | Water Heating | New | building | 1,417 | 22% | 0.2 | 11 | \$1.4 | 50% | 203.9 |
| FE-Penelec | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Grocery | Water Heating | Early | water heater | 86,559 | 5.9% | 0.9 | 15 | \$921 | 79% | 3.9 |
| FE-Penelec | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Grocery | Water Heating | Early | water heater | 86,559 | 5.9% | 0.9 | 15 | \$921 | 79% | 3.9 |
| FE-Penelec | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Grocery | Water Heating | New | water heater | 84,155 | 3.2% | 0.5 | 15 | \$921 | 79% | 2.1 |
| FE-Penelec | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Grocery | Water Heating | New | water heater | 84,155 | 3.2% | 0.5 | 15 | \$921 | 79% | 2.1 |
| FE-Penelec | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Grocery | Water Heating | ROB | water heater | 84,155 | 3.2% | 0.5 | 15 | \$921 | 79% | 2.1 |
| FE-Penelec | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Grocery | Water Heating | ROB | water heater | 84,155 | 3.2% | 0.5 | 15 | \$921 | 79% | 2.1 |
| FE-Penelec | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Grocery | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$466 | 81% | 39.2 |
| FE-Penelec | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Grocery | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 20.4 |
| FE-Penelec | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Grocery | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 20.4 |
| FE-Penelec | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Grocery | Water Heating | Existing | building | 1,417 | 4.3% | 0.04 | 13 | \$9.2 | 68% | 7.0 |
| FE-Penelec | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Grocery | Water Heating | New | building | 1,417 | 4.3% | 0.04 | 13 | \$9.2 | 0% | 7.0 |
| FE-Penelec | Hot Water Circulation Pump Time-Clock | Constant circulation system | Grocery | Water Heating | Existing | building | 1,417 | 5.3% | 0.05 | 10 | \$5.7 | 72% | 11.4 |
| FE-Penelec | Hot Water Circulation Pump Time-Clock | Constant circulation system | Grocery | Water Heating | New | building | 1,417 | 5.3% | 0.05 | 10 | \$5.7 | 72% | 11.4 |
| FE-Penelec | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Grocery | Water Heating | Existing | building | 1,304 | 0.1% | 0.00 | 7 | \$22 | 78% | 0.0 |
| FE-Penelec | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Grocery | Water Heating | New | building | 1,304 | 0.1% | 0.00 | 7 | \$0.5 | 78% | 1.9 |
| FE-Penelec | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Grocery | Water Heating | Existing | building | 1,417 | 13% | 0.1 | 5 | \$300 | 20% | 0.3 |
| FE-Penelec | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Grocery | Water Heating | New | building | 1,417 | 8.9% | 0.09 | 5 | \$194 | 20% | 0.3 |
| FE-Penelec | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Grocery | Water Heating | Existing | building | 1,417 | 6.5% | 0.07 | 9 | \$25 | 2% | 2.9 |
| FE-Penelec | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Grocery | Water Heating | New | building | 1,417 | 6.5% | 0.07 | 9 | \$6.0 | 2% | 12.3 |
| FE-Penelec | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Grocery | Water Heating | Early | water heater | 86,559 | 52% | 3.7 | 15 | \$18,666 | 32% | 1.5 |
| FE-Penelec | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Grocery | Water Heating | New | water heater | 84,155 | 51% | 3.5 | 15 | \$18,666 | 32% | 1.4 |
| FE-Penelec | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Grocery | Water Heating | ROB | water heater | 84,155 | 51% | 3.5 | 15 | \$18,666 | 32% | 1.4 |
| FE-Penelec | Ultrasonic Faucet Control | Manual Faucet Control | Grocery | Water Heating | Existing | building | 1,417 | 3.0% | 0.03 | 10 | \$245 | 77% | 0.2 |
| FE-Penelec | Ultrasonic Faucet Control | Manual Faucet Control | Grocery | Water Heating | New | building | 1,417 | 3.1% | 0.03 | 10 | \$245 | 77% | 0.2 |
| FE-Penelec | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Grocery | Water Heating | Existing | building | 1,417 | 2.2% | 0.02 | 4 | \$28 | 83% | 0.5 |
| FE-Penelec | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Grocery | Water Heating | New | building | 1,417 | 2.3% | 0.02 | 4 | \$28 | 83% | 0.5 |
| FE-Penelec | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Healthcare | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.1 |
| FE-Penelec | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Healthcare | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.1 |
| FE-Penelec | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Healthcare | Cooking | Early | steamer | 51 | 46% | 0.00 | 12 | \$5,053 | 81% | 0.0 |
| FE-Penelec | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Healthcare | Cooking | New | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-Penelec | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Healthcare | Cooking | ROB | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-Penelec | Electric combination oven (Energy Star) | Standard Oven | Healthcare | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.9 |
| FE-Penelec | Electric combination oven (Energy Star) | Standard Oven | Healthcare | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.9 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|--|---|------------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Electric Convection Oven | Conventional convection oven w/ 65% efficiency | Healthcare | Cooking | Early | oven | 8,641 | 37% | 0.6 | 12 | \$4,119 | 81% | 0.4 |
| FE-Penelec | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Healthcare | Cooking | New | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.7 |
| FE-Penelec | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Healthcare | Cooking | ROB | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.7 |
| FE-Penelec | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Healthcare | Cooking | Early | fryer | 6,105 | 23% | 0.3 | 12 | \$9,241 | 86% | 0.1 |
| FE-Penelec | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Healthcare | Cooking | New | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| FE-Penelec | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Healthcare | Cooking | ROB | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| FE-Penelec | High Efficiency Griddle (ENERGY STAR) | Efficiency code minimum griddle (70% eff) | Healthcare | Cooking | Early | griddle | 11,317 | 65% | 1.4 | 12 | \$4,977 | 86% | 0.8 |
| FE-Penelec | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Healthcare | Cooking | New | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.2 |
| FE-Penelec | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Healthcare | Cooking | ROB | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.2 |
| FE-Penelec | High Efficiency Induction Cooking | Standard Cooking | Healthcare | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-Penelec | High Efficiency Induction Cooking | Standard Cooking | Healthcare | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-Penelec | Solid-state temperature controls | No Solid State Controls | Healthcare | Cooking | Existing | building | 15,422 | 3.6% | 0.04 | 12 | \$69 | 34% | 3.7 |
| FE-Penelec | Active chilled beam cooling | No Active Chilled beam cooling | Healthcare | Cooling Central | New | building | 10,217 | 5.3% | 0.05 | 15 | \$2,671 | 72% | 0.1 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Healthcare | Cooling Central | Existing | building | 10,755 | 7.0% | 0.07 | 6 | \$15,263 | 82% | 0.0 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Healthcare | Cooling Central | New | building | 10,755 | 7.0% | 0.07 | 6 | \$15,263 | 82% | 0.0 |
| FE-Penelec | Adding window shade film | No shade film | Healthcare | Cooling Central | Existing | building | 10,755 | 1.3% | 0.4 | 10 | \$131 | 12% | 2.4 |
| FE-Penelec | Adding window shade film | No shade film | Healthcare | Cooling Central | New | building | 10,755 | 1.3% | 0.4 | 10 | \$131 | 13% | 2.4 |
| FE-Penelec | Adding window shade screen | No shade screen | Healthcare | Cooling Central | Existing | building | 10,755 | 1.0% | 0.01 | 10 | \$51 | 13% | 1.0 |
| FE-Penelec | Adding window shade screen | No shade screen | Healthcare | Cooling Central | New | building | 10,755 | 1.1% | 0.01 | 10 | \$51 | 13% | 1.0 |
| FE-Penelec | Automated control system | Manual Controls | Healthcare | Cooling Central | Existing | building | 10,755 | 17% | 0.2 | 15 | \$11,774 | 51% | 0.1 |
| FE-Penelec | Automated control system | Manual Controls | Healthcare | Cooling Central | New | building | 10,755 | 17% | 0.2 | 15 | \$11,774 | 94% | 0.1 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Healthcare | Cooling Central | Existing | building | 10,755 | 1.0% | 0.01 | 15 | \$20,566 | 71% | 0.0 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Healthcare | Cooling Central | New | building | 10,755 | 0.3% | 0.00 | 15 | \$19,549 | 94% | 0.0 |
| FE-Penelec | Chilled Water Reset, Optimizer System for Chiller(s) | No Chilled Water Reset | Healthcare | Cooling Central | Existing | building | 10,755 | 3.7% | 0.04 | 10 | \$49 | 69% | 3.6 |
| FE-Penelec | Chiller Tune Up Diagnostics | No Chiller Tune Up | Healthcare | Cooling Central | Existing | building | 10,755 | 2.3% | 0.02 | 10 | \$11 | 59% | 10.0 |
| FE-Penelec | Chiller Tuneup/Diagnostics | No tuneup | Healthcare | Cooling Central | Existing | building | 10,755 | 8.0% | 0.08 | 10 | \$27,463 | 59% | 0.0 |
| FE-Penelec | Chiller Tuneup/Diagnostics | No tuneup | Healthcare | Cooling Central | New | building | 10,755 | 8.0% | 0.08 | 10 | \$27,463 | 59% | 0.0 |
| FE-Penelec | Cooling Tower Optimization | No Cooling Tower Optimization | Healthcare | Cooling Central | Existing | building | 10,755 | 4.9% | 0.05 | 10 | \$49 | 73% | 4.8 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Healthcare | Cooling Central | Existing | building | 10,755 | 1.4% | 0.04 | 15 | \$85 | 20% | 1.4 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Healthcare | Cooling Central | New | building | 10,755 | 1.4% | 0.04 | 15 | \$85 | 10% | 1.4 |
| FE-Penelec | Facility Commissioning | No Facility Commissioning | Healthcare | Cooling Central | New | building | 10,755 | 16% | 0.2 | 10 | \$68,581 | 89% | 0.0 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Healthcare | Cooling Central | Existing | building | 10,755 | 7.0% | 0.07 | 15 | \$47,707 | 25% | 0.0 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Healthcare | Cooling Central | New | building | 10,755 | 7.0% | 0.07 | 15 | \$47,707 | 35% | 0.0 |
| FE-Penelec | Hi Eff HVAC System Design | No HVAC Design | Healthcare | Cooling Central | New | building | 10,755 | 8.6% | 0.09 | 10 | \$666,990 | 51% | 0.0 |
| FE-Penelec | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | Early | ton | 7,379 | 24% | 0.6 | 15 | \$108,550 | 88% | 0.0 |
| FE-Penelec | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | New | ton | 6,032 | 6.7% | 0.1 | 15 | \$12,927 | 88% | 0.0 |
| FE-Penelec | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | ROB | ton | 6,032 | 6.7% | 0.1 | 15 | \$12,927 | 88% | 0.0 |
| FE-Penelec | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | Early | ton | 11,026 | 23% | 0.9 | 15 | \$140,105 | 88% | 0.0 |
| FE-Penelec | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | New | ton | 8,871 | 4.9% | 0.1 | 15 | \$9,336 | 88% | 0.0 |
| FE-Penelec | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | ROB | ton | 8,871 | 4.9% | 0.1 | 15 | \$9,336 | 88% | 0.0 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | Early | ton | 90,260 | 26% | 8.1 | 15 | \$105,354 | 88% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | New | ton | 78,642 | 15% | 4.1 | 15 | \$30,530 | 88% | 0.3 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | ROB | ton | 78,642 | 15% | 4.1 | 15 | \$30,530 | 88% | 0.3 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | Early | ton | 135,185 | 23% | 10.7 | 15 | \$154,107 | 88% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | New | ton | 124,184 | 16% | 6.9 | 15 | \$27,646 | 88% | 0.6 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | ROB | ton | 135,185 | 23% | 10.7 | 15 | \$27,646 | 88% | 1.0 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | Early | ton | 224,516 | 23% | 17.6 | 15 | \$302,924 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | New | ton | 203,203 | 14% | 10.2 | 15 | \$115,432 | 88% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | ROB | ton | 224,516 | 23% | 17.6 | 15 | \$115,432 | 88% | 0.4 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | Early | ton | 269,419 | 23% | 21.1 | 15 | \$350,154 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | New | ton | 243,844 | 14% | 12.3 | 15 | \$120,406 | 88% | 0.3 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | ROB | ton | 269,419 | 23% | 21.1 | 15 | \$120,406 | 88% | 0.4 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | Early | ton | 59,719 | 29% | 6.1 | 15 | \$83,632 | 88% | 0.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|--|---|------------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | New | ton | 46,371 | 8.9% | 1.4 | 15 | \$40,211 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | ROB | ton | 59,719 | 29% | 6.1 | 15 | \$40,211 | 88% | 0.4 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | Early | ton | 102,612 | 35% | 12.4 | 15 | \$132,173 | 88% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | New | ton | 76,531 | 13% | 3.3 | 15 | \$39,556 | 88% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | ROB | ton | 76,531 | 13% | 3.3 | 15 | \$39,556 | 88% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | Early | ton | 171,319 | 39% | 23.3 | 15 | \$187,029 | 88% | 0.3 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | New | ton | 122,148 | 15% | 6.2 | 15 | \$33,554 | 88% | 0.5 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | ROB | ton | 171,319 | 39% | 23.3 | 15 | \$33,554 | 88% | 1.7 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | Early | ton | 29,978 | 30% | 3.1 | 15 | \$32,398 | 88% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | New | ton | 23,751 | 11% | 0.9 | 15 | \$7,188 | 88% | 0.3 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | ROB | ton | 29,978 | 30% | 3.1 | 15 | \$7,188 | 88% | 1.1 |
| FE-Penelec | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Healthcare | Cooling Central | Existing | building | 10,755 | 2.1% | 0.02 | 10 | \$22,450 | 81% | 0.0 |
| FE-Penelec | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Healthcare | Cooling Central | New | building | 10,755 | 2.1% | 0.02 | 10 | \$22,450 | 81% | 0.0 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Healthcare | Cooling Central | Existing | building | 10,755 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.4 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Healthcare | Cooling Central | New | building | 10,755 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.6 |
| FE-Penelec | Re-Commissioning (Existing Construction) | No Re-Commissioning | Healthcare | Cooling Central | Existing | building | 10,755 | 16% | 0.2 | 5 | \$8,847 | 86% | 0.0 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Healthcare | Cooling Central | Existing | building | 10,755 | 2.6% | 0.03 | 15 | \$5,624 | 26% | 0.0 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Healthcare | Cooling Central | New | building | 10,755 | 0.1% | 0.00 | 15 | \$4,314 | 94% | 0.0 |
| FE-Penelec | <65k BTU/hr 14 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Healthcare | Cooling Unitary | Early | ton | 2,665 | 16% | 0.2 | 15 | \$1,545 | 29% | 0.2 |
| FE-Penelec | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Healthcare | Cooling Unitary | New | ton | 2,413 | 7.1% | 0.06 | 15 | \$339 | 29% | 0.4 |
| FE-Penelec | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Healthcare | Cooling Unitary | ROB | ton | 2,413 | 7.1% | 0.06 | 15 | \$339 | 29% | 0.4 |
| FE-Penelec | <65k BTU/hr 15 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Healthcare | Cooling Unitary | Early | ton | 2,665 | 22% | 0.2 | 15 | \$1,821 | 30% | 0.3 |
| FE-Penelec | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Healthcare | Cooling Unitary | New | ton | 2,413 | 13% | 0.1 | 15 | \$714 | 30% | 0.4 |
| FE-Penelec | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Healthcare | Cooling Unitary | ROB | ton | 2,413 | 13% | 0.1 | 15 | \$714 | 30% | 0.4 |
| FE-Penelec | <65k BTU/hr 16 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Healthcare | Cooling Unitary | Early | ton | 2,665 | 26% | 0.3 | 15 | \$2,098 | 31% | 0.3 |
| FE-Penelec | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Healthcare | Cooling Unitary | New | ton | 2,413 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.4 |
| FE-Penelec | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Healthcare | Cooling Unitary | ROB | ton | 2,413 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.4 |
| FE-Penelec | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Healthcare | Cooling Unitary | Early | ton | 67,418 | 3.7% | 0.9 | 15 | \$68,066 | 56% | 0.0 |
| FE-Penelec | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Healthcare | Cooling Unitary | New | ton | 68,282 | 4.9% | 1.2 | 15 | \$6,231 | 56% | 0.5 |
| FE-Penelec | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Healthcare | Cooling Unitary | ROB | ton | 68,282 | 4.9% | 1.2 | 15 | \$6,231 | 56% | 0.5 |
| FE-Penelec | 135-240k min 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Healthcare | Cooling Unitary | Early | ton | 16,588 | 18% | 1.1 | 15 | \$18,135 | 79% | 0.1 |
| FE-Penelec | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Healthcare | Cooling Unitary | New | ton | 15,090 | 10.0% | 0.6 | 15 | \$1,948 | 79% | 0.7 |
| FE-Penelec | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Healthcare | Cooling Unitary | ROB | ton | 15,090 | 10.0% | 0.6 | 15 | \$1,948 | 79% | 0.7 |
| FE-Penelec | 240k-760k min 11 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Healthcare | Cooling Unitary | Early | ton | 44,354 | 9.0% | 1.5 | 15 | \$44,809 | 66% | 0.1 |
| FE-Penelec | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Healthcare | Cooling Unitary | New | ton | 44,464 | 9.3% | 1.5 | 15 | \$4,813 | 66% | 0.8 |
| FE-Penelec | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Healthcare | Cooling Unitary | ROB | ton | 44,464 | 9.3% | 1.5 | 15 | \$4,813 | 66% | 0.8 |
| FE-Penelec | 65k-135k BTU/hr 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Healthcare | Cooling Unitary | Early | ton | 9,779 | 17% | 0.6 | 15 | \$10,946 | 86% | 0.1 |
| FE-Penelec | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Healthcare | Cooling Unitary | New | ton | 8,715 | 6.7% | 0.2 | 15 | \$1,392 | 86% | 0.4 |
| FE-Penelec | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Healthcare | Cooling Unitary | ROB | ton | 8,715 | 6.7% | 0.2 | 15 | \$1,392 | 86% | 0.4 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Healthcare | Cooling Unitary | Existing | building | 174,623 | 7.0% | 0.07 | 6 | \$15,263 | 82% | 0.2 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Healthcare | Cooling Unitary | New | building | 174,623 | 7.0% | 0.07 | 6 | \$15,263 | 82% | 0.2 |
| FE-Penelec | Adding window shade film | No shade film | Healthcare | Cooling Unitary | Existing | building | 174,623 | 1.3% | 0.4 | 10 | \$2,125 | 12% | 0.5 |
| FE-Penelec | Adding window shade film | No shade film | Healthcare | Cooling Unitary | New | building | 174,623 | 1.3% | 0.4 | 10 | \$2,125 | 13% | 0.5 |
| FE-Penelec | Adding window shade screen | No shade screen | Healthcare | Cooling Unitary | Existing | building | 174,623 | 1.1% | 0.01 | 10 | \$822 | 12% | 0.9 |
| FE-Penelec | Adding window shade screen | No shade screen | Healthcare | Cooling Unitary | New | building | 174,623 | 1.1% | 0.01 | 10 | \$822 | 13% | 0.9 |
| FE-Penelec | Automated control system | Manual Controls | Healthcare | Cooling Unitary | Existing | building | 174,623 | 17% | 0.2 | 15 | \$191,171 | 51% | 0.1 |
| FE-Penelec | Automated control system | Manual Controls | Healthcare | Cooling Unitary | New | building | 174,623 | 17% | 0.2 | 15 | \$191,171 | 94% | 0.1 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Healthcare | Cooling Unitary | Existing | building | 174,623 | 1.1% | 0.01 | 15 | \$20,566 | 71% | 0.0 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Healthcare | Cooling Unitary | New | building | 174,623 | 0.3% | 0.00 | 15 | \$19,549 | 94% | 0.0 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Healthcare | Cooling Unitary | Existing | building | 174,623 | 1.4% | 0.04 | 15 | \$1,387 | 20% | 1.0 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Healthcare | Cooling Unitary | New | building | 174,623 | 1.4% | 0.04 | 15 | \$1,387 | 10% | 1.0 |
| FE-Penelec | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Healthcare | Cooling Unitary | Existing | building | 96,043 | 13% | 0.1 | 1 | \$921 | 73% | 0.7 |
| FE-Penelec | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Healthcare | Cooling Unitary | New | building | 96,043 | 13% | 0.1 | 1 | \$921 | 73% | 0.7 |
| FE-Penelec | ECM Motors for split systems | Std Shaded Pole Motor | Healthcare | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.9 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|--|--|------------|-----------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | ECM Motors for split systems | Std Shaded Pole Motor | Healthcare | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.9 |
| FE-Penelec | Facility Commissioning | No Facility Commissioning | Healthcare | Cooling Unitary | New | building | 174,623 | 16% | 0.2 | 10 | \$5,179 | 89% | 2.0 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Healthcare | Cooling Unitary | Existing | building | 174,623 | 7.1% | 0.07 | 15 | \$774,588 | 25% | 0.0 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Healthcare | Cooling Unitary | New | building | 174,623 | 7.1% | 0.07 | 15 | \$774,588 | 35% | 0.0 |
| FE-Penelec | Hi Eff HVAC System Design | No HVAC Design | Healthcare | Cooling Unitary | New | building | 174,623 | 8.6% | 0.09 | 10 | \$60,786 | 51% | 0.1 |
| FE-Penelec | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Healthcare | Cooling Unitary | Existing | building | 174,623 | 5.0% | 0.05 | 5 | \$225 | 59% | 8.3 |
| FE-Penelec | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Healthcare | Cooling Unitary | Existing | building | 174,623 | 0.1% | 0.04 | 5 | \$225 | 51% | 0.2 |
| FE-Penelec | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Healthcare | Cooling Unitary | New | building | 174,623 | 0.1% | 0.04 | 5 | \$135 | 51% | 0.3 |
| FE-Penelec | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Healthcare | Cooling Unitary | Existing | building | 174,623 | 2.1% | 0.02 | 10 | \$24,127 | 86% | 0.1 |
| FE-Penelec | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Healthcare | Cooling Unitary | New | building | 174,623 | 2.1% | 0.02 | 10 | \$24,127 | 86% | 0.1 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) | Healthcare | Cooling Unitary | Existing | building | 174,623 | 2.0% | 0.02 | 11 | \$286 | 49% | 5.0 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Healthcare | Cooling Unitary | New | building | 174,623 | 1.7% | 0.02 | 11 | \$146 | 49% | 8.4 |
| FE-Penelec | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Healthcare | Cooling Unitary | Early | unit | 628 | 19% | 0.06 | 15 | \$849 | 85% | 0.1 |
| FE-Penelec | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Healthcare | Cooling Unitary | New | unit | 634 | 20% | 0.06 | 15 | \$356 | 85% | 0.3 |
| FE-Penelec | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Healthcare | Cooling Unitary | ROB | unit | 634 | 20% | 0.06 | 15 | \$356 | 85% | 0.3 |
| FE-Penelec | Re-Commissioning (Existing Construction) | No Re-Commissioning | Healthcare | Cooling Unitary | Existing | building | 174,623 | 16% | 0.2 | 5 | \$8,847 | 86% | 0.7 |
| FE-Penelec | Room AC (w/ louvered sides) | Existing efficiency Room AC in Pennsylvania (2000 Federal Standards) | Healthcare | Cooling Unitary | Early | ton | 1,096 | 13% | 0.05 | 9 | \$348 | 82% | 0.2 |
| FE-Penelec | Room AC (w/ louvered sides) | Std Room AC (Code Min. Federal Standards) | Healthcare | Cooling Unitary | New | ton | 994 | 4.5% | 0.02 | 9 | \$17 | 82% | 1.5 |
| FE-Penelec | Room AC (w/ louvered sides) | Std Room AC (Code Min. Federal Standards) | Healthcare | Cooling Unitary | ROB | ton | 994 | 4.5% | 0.02 | 9 | \$17 | 82% | 1.5 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Healthcare | Cooling Unitary | Existing | building | 174,623 | 2.6% | 0.03 | 15 | \$5,624 | 26% | 0.4 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Healthcare | Cooling Unitary | New | building | 174,623 | 0.1% | 0.00 | 15 | \$4,314 | 94% | 0.0 |
| FE-Penelec | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Healthcare | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 1.1 |
| FE-Penelec | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Healthcare | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.4 |
| FE-Penelec | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Healthcare | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.4 |
| FE-Penelec | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Healthcare | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 0% | 0.2 |
| FE-Penelec | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Healthcare | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-Penelec | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Healthcare | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-Penelec | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Healthcare | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 75% | 0.3 |
| FE-Penelec | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Healthcare | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 75% | 0.2 |
| FE-Penelec | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Healthcare | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.8 |
| FE-Penelec | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Healthcare | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.1 |
| FE-Penelec | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Healthcare | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.8 |
| FE-Penelec | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Healthcare | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.1 |
| FE-Penelec | Photocell Controls (Outdoor) | Lighting w/ No Controls | Healthcare | Ext. Lighting | Existing | building | 5,362 | 28% | 0.3 | 8 | \$5,444 | 88% | 0.1 |
| FE-Penelec | Photocell Controls (Outdoor) | Lighting w/ No Controls | Healthcare | Ext. Lighting | New | building | 5,362 | 28% | 0.3 | 8 | \$5,444 | 0% | 0.1 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Healthcare | Heat Pump | Existing | building | 20,385 | 6.9% | 0.07 | 6 | \$15,263 | 82% | 0.0 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Healthcare | Heat Pump | New | building | 20,385 | 6.9% | 0.07 | 6 | \$15,263 | 82% | 0.0 |
| FE-Penelec | Adding window shade film | No shade film | Healthcare | Heat Pump | Existing | building | 20,385 | 3.9% | 0.4 | 10 | \$248 | 12% | 2.2 |
| FE-Penelec | Adding window shade film | No shade film | Healthcare | Heat Pump | New | building | 20,385 | 3.9% | 0.4 | 10 | \$248 | 12% | 2.2 |
| FE-Penelec | Adding window shade screen | No shade screen | Healthcare | Heat Pump | Existing | building | 20,385 | 0.3% | 0.01 | 10 | \$32 | 12% | 1.0 |
| FE-Penelec | Adding window shade screen | No shade screen | Healthcare | Heat Pump | New | building | 20,385 | 0.3% | 0.01 | 10 | \$32 | 12% | 1.0 |
| FE-Penelec | Automated control system | Manual Controls | Healthcare | Heat Pump | Existing | building | 20,385 | 17% | 0.2 | 15 | \$22,317 | 51% | 0.1 |
| FE-Penelec | Automated control system | Manual Controls | Healthcare | Heat Pump | New | building | 20,385 | 17% | 0.2 | 15 | \$22,317 | 94% | 0.1 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Healthcare | Heat Pump | Existing | building | 20,385 | 1.0% | 0.01 | 15 | \$20,566 | 71% | 0.0 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Healthcare | Heat Pump | New | building | 20,385 | 0.3% | 0.00 | 15 | \$19,549 | 94% | 0.0 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Healthcare | Heat Pump | Existing | building | 20,385 | 4.0% | 0.04 | 15 | \$162 | 12% | 2.7 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Healthcare | Heat Pump | New | building | 20,385 | 4.0% | 0.04 | 15 | \$162 | 6% | 2.7 |
| FE-Penelec | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Healthcare | Heat Pump | Early | heat pump | 1,774 | 13% | 0.02 | 15 | \$4,070 | 83% | 0.0 |
| FE-Penelec | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Healthcare | Heat Pump | New | heat pump | 1,679 | 7.7% | 0.01 | 15 | \$1,097 | 83% | 0.1 |
| FE-Penelec | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Healthcare | Heat Pump | ROB | heat pump | 1,679 | 7.7% | 0.01 | 15 | \$1,097 | 83% | 0.1 |
| FE-Penelec | Facility Commissioning | No Facility Commissioning | Healthcare | Heat Pump | New | building | 20,385 | 16% | 0.2 | 10 | \$68,581 | 89% | 0.0 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Healthcare | Heat Pump | Existing | building | 20,385 | 7.0% | 0.07 | 15 | \$90,424 | 25% | 0.0 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Healthcare | Heat Pump | New | building | 20,385 | 7.0% | 0.07 | 15 | \$90,424 | 35% | 0.0 |
| FE-Penelec | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Healthcare | Heat Pump | Early | heat pump | 17,818 | 19% | 0.3 | 15 | \$91,117 | 19% | 0.0 |
| FE-Penelec | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Healthcare | Heat Pump | New | heat pump | 17,026 | 15% | 0.2 | 15 | \$33,927 | 19% | 0.0 |
| FE-Penelec | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Healthcare | Heat Pump | ROB | heat pump | 17,026 | 15% | 0.2 | 15 | \$33,927 | 19% | 0.0 |
| FE-Penelec | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Healthcare | Heat Pump | Early | heat pump | 17,818 | 19% | 0.3 | 15 | \$58,356 | 19% | 0.0 |
| FE-Penelec | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Healthcare | Heat Pump | New | heat pump | 17,026 | 15% | 0.2 | 15 | \$1,167 | 19% | 1.2 |
| FE-Penelec | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Healthcare | Heat Pump | ROB | heat pump | 17,026 | 15% | 0.2 | 15 | \$1,167 | 19% | 1.2 |
| FE-Penelec | Hi Eff HVAC System Design | No HVAC Design | Healthcare | Heat Pump | New | building | 20,385 | 8.6% | 0.09 | 10 | \$666,990 | 51% | 0.0 |
| FE-Penelec | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Healthcare | Heat Pump | Early | heat pump | 4,530 | 18% | 0.07 | 12 | \$4,298 | 81% | 0.1 |
| FE-Penelec | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Healthcare | Heat Pump | New | heat pump | 4,275 | 13% | 0.05 | 12 | \$852 | 81% | 0.3 |
| FE-Penelec | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Healthcare | Heat Pump | ROB | heat pump | 4,275 | 13% | 0.05 | 12 | \$852 | 81% | 0.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|--|--|------------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Healthcare | Heat Pump | Existing | building | 20,385 | 5.0% | 0.09 | 5 | \$90 | 51% | 2.6 |
| FE-Penelec | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Healthcare | Heat Pump | New | building | 20,385 | 5.0% | 0.09 | 5 | \$90 | 51% | 2.6 |
| FE-Penelec | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Healthcare | Heat Pump | Existing | building | 20,385 | 2.1% | 0.02 | 10 | \$21,481 | 81% | 0.0 |
| FE-Penelec | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Healthcare | Heat Pump | New | building | 20,385 | 2.1% | 0.02 | 10 | \$21,481 | 81% | 0.0 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Healthcare | Heat Pump | Existing | building | 20,385 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.7 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Healthcare | Heat Pump | New | building | 20,385 | 2.1% | 0.02 | 11 | \$146 | 49% | 1.2 |
| FE-Penelec | Re-Commissioning (Existing Construction) | No Re-Commissioning | Healthcare | Heat Pump | Existing | building | 20,385 | 16% | 0.2 | 5 | \$8,847 | 86% | 0.1 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Healthcare | Heat Pump | Existing | building | 20,385 | 2.6% | 0.03 | 15 | \$5,624 | 26% | 0.1 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Healthcare | Heat Pump | New | building | 20,385 | 0.1% | 0.00 | 15 | \$4,314 | 94% | 0.0 |
| FE-Penelec | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Healthcare | Heat Pump | Early | heat pump | 7,111 | 32% | 0.2 | 15 | \$35,347 | 28% | 0.0 |
| FE-Penelec | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Healthcare | Heat Pump | New | heat pump | 6,661 | 27% | 0.2 | 15 | \$15,739 | 28% | 0.1 |
| FE-Penelec | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Healthcare | Heat Pump | ROB | heat pump | 6,661 | 27% | 0.2 | 15 | \$15,739 | 28% | 0.1 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | Early | Fixture | 620 | 9.6% | 0.01 | 13 | \$850 | 39% | 0.0 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Healthcare | High Bay Lighting | Early | Fixture | 619 | 9.5% | 0.01 | 13 | \$850 | 28% | 0.0 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Healthcare | High Bay Lighting | Early | Fixture | 956 | 41% | 0.08 | 13 | \$850 | 36% | 0.3 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | New | Fixture | 471 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Healthcare | High Bay Lighting | New | Fixture | 438 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Healthcare | High Bay Lighting | New | Fixture | 726 | 41% | 0.06 | 13 | \$397 | 36% | 0.5 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 620 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 577 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 956 | 41% | 0.08 | 13 | \$397 | 36% | 0.6 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | Early | Fixture | 1,203 | 19% | 0.05 | 13 | \$851 | 38% | 0.2 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Healthcare | High Bay Lighting | Early | Fixture | 1,218 | 20% | 0.05 | 13 | \$851 | 38% | 0.2 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | Early | Fixture | 3,543 | 73% | 0.5 | 13 | \$851 | 38% | 1.9 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | New | Fixture | 914 | 19% | 0.04 | 13 | \$372 | 38% | 0.3 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | New | Fixture | 2,693 | 73% | 0.4 | 13 | \$383 | 38% | 3.3 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 1,203 | 19% | 0.05 | 13 | \$372 | 38% | 0.4 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 3,543 | 73% | 0.5 | 13 | \$383 | 38% | 4.3 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | Early | Fixture | 1,203 | 25% | 0.06 | 13 | \$554 | 29% | 0.3 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Healthcare | High Bay Lighting | Early | Fixture | 1,181 | 23% | 0.06 | 13 | \$554 | 28% | 0.3 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | Early | Fixture | 3,543 | 74% | 0.6 | 13 | \$554 | 36% | 3.1 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | New | Fixture | 914 | 25% | 0.05 | 13 | \$75 | 29% | 1.9 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | New | Fixture | 2,693 | 74% | 0.4 | 13 | \$86 | 36% | 15.0 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 1,203 | 25% | 0.06 | 13 | \$75 | 29% | 2.5 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 3,543 | 74% | 0.6 | 13 | \$86 | 36% | 19.7 |
| FE-Penelec | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Healthcare | High Bay Lighting | Early | Fixture | 314 | 0.2% | 0.00 | 13 | \$835 | 38% | 0.0 |
| FE-Penelec | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Healthcare | High Bay Lighting | Early | Fixture | 676 | 54% | 0.08 | 13 | \$835 | 38% | 0.3 |
| FE-Penelec | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Healthcare | High Bay Lighting | New | Fixture | 514 | 54% | 0.06 | 13 | \$382 | 38% | 0.5 |
| FE-Penelec | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 676 | 54% | 0.08 | 13 | \$382 | 38% | 0.6 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | Early | Fixture | 1,533 | 18% | 0.06 | 13 | \$487 | 25% | 0.4 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Healthcare | High Bay Lighting | Early | Fixture | 1,603 | 22% | 0.07 | 13 | \$487 | 28% | 0.5 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | Early | Fixture | 3,543 | 65% | 0.5 | 13 | \$487 | 36% | 3.0 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | New | Fixture | 1,165 | 18% | 0.05 | 13 | \$16 | 25% | 8.4 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | New | Fixture | 2,693 | 65% | 0.4 | 13 | \$18 | 36% | 60.7 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 1,533 | 18% | 0.06 | 13 | \$16 | 25% | 11.0 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 3,543 | 65% | 0.5 | 13 | \$18 | 36% | 79.9 |
| FE-Penelec | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | Early | Fixture | 1,533 | 1.5% | 0.00 | 13 | \$557 | 19% | 0.0 |
| FE-Penelec | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Healthcare | High Bay Lighting | Early | Fixture | 1,578 | 4.3% | 0.01 | 13 | \$557 | 19% | 0.1 |
| FE-Penelec | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | Early | Fixture | 3,543 | 57% | 0.4 | 13 | \$557 | 19% | 2.3 |
| FE-Penelec | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | New | Fixture | 1,165 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| FE-Penelec | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | New | Fixture | 2,693 | 57% | 0.3 | 13 | \$88 | 19% | 11.2 |
| FE-Penelec | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 1,533 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.2 |
| FE-Penelec | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 3,543 | 57% | 0.4 | 13 | \$88 | 19% | 14.8 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Healthcare | High Bay Lighting | Early | Fixture | 651 | 29% | 0.03 | 13 | \$492 | 71% | 0.2 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | Early | Fixture | 544 | 15% | 0.01 | 13 | \$492 | 95% | 0.1 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Healthcare | High Bay Lighting | Early | Fixture | 808 | 43% | 0.05 | 13 | \$492 | 95% | 0.4 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Healthcare | High Bay Lighting | Early | Fixture | 749 | 38% | 0.04 | 13 | \$492 | 95% | 0.3 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | New | Fixture | 414 | 15% | 0.01 | 13 | \$25 | 95% | 1.5 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Healthcare | High Bay Lighting | New | Fixture | 614 | 43% | 0.04 | 13 | \$51 | 95% | 3.0 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 544 | 15% | 0.01 | 13 | \$25 | 95% | 1.9 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 808 | 43% | 0.05 | 13 | \$51 | 95% | 4.0 |
| FE-Penelec | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Healthcare | High Bay Lighting | Early | lamp | 107 | 16% | 0.00 | 10 | \$7.7 | 99% | 1.2 |
| FE-Penelec | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Healthcare | High Bay Lighting | New | lamp | 64 | 13% | 0.00 | 10 | \$1.6 | 91% | 2.6 |
| FE-Penelec | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Healthcare | High Bay Lighting | ROB | lamp | 103 | 13% | 0.00 | 10 | \$1.6 | 91% | 4.3 |
| FE-Penelec | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | Early | Fixture | 3,626 | 23% | 0.2 | 13 | \$613 | 5% | 0.9 |
| FE-Penelec | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Healthcare | High Bay Lighting | Early | Fixture | 2,849 | 1.6% | 0.01 | 13 | \$613 | 28% | 0.0 |
| FE-Penelec | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | Early | Fixture | 7,087 | 60% | 0.9 | 13 | \$613 | 18% | 4.5 |
| FE-Penelec | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | New | Fixture | 2,756 | 23% | 0.1 | 13 | \$96 | 5% | 4.2 |
| FE-Penelec | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 3,626 | 23% | 0.2 | 13 | \$96 | 5% | 5.5 |
| FE-Penelec | Auto Off Time Switch | Lighting w/ No Controls | Healthcare | High Bay Lighting | Existing | building | 8,138 | 24% | 0.2 | 8 | \$1,106 | 13% | 0.7 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|--|------------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Auto Off Time Switch | Lighting w/ No Controls | Healthcare | High Bay Lighting | New | building | 8,138 | 6.9% | 0.07 | 8 | \$1,106 | 0% | 0.2 |
| FE-Penelec | Central Lighting Control System | Lighting w/ No Controls | Healthcare | High Bay Lighting | Existing | building | 8,138 | 38% | 0.4 | 8 | \$1,106 | 13% | 1.1 |
| FE-Penelec | Central Lighting Control System | Lighting w/ No Controls | Healthcare | High Bay Lighting | New | building | 8,138 | 14% | 0.1 | 8 | \$1,106 | 13% | 0.4 |
| FE-Penelec | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Healthcare | High Bay Lighting | New | building | 8,138 | 10% | 0.1 | 15 | \$32,147 | 32% | 0.0 |
| FE-Penelec | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Healthcare | High Bay Lighting | New | building | 8,138 | 15% | 0.2 | 15 | \$80,367 | 32% | 0.0 |
| FE-Penelec | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Healthcare | High Bay Lighting | New | building | 8,138 | 30% | 0.3 | 15 | \$115,193 | 32% | 0.0 |
| FE-Penelec | Indoor Daylight Sensors | Lighting w/ No Controls | Healthcare | High Bay Lighting | Existing | building | 8,138 | 28% | 0.3 | 8 | \$5,444 | 13% | 0.2 |
| FE-Penelec | Indoor Daylight Sensors | Lighting w/ No Controls | Healthcare | High Bay Lighting | New | building | 8,138 | 4.0% | 0.04 | 8 | \$5,444 | 0% | 0.0 |
| FE-Penelec | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | Early | Fixture | 3,626 | 92% | 0.7 | 13 | \$1,916 | 95% | 1.1 |
| FE-Penelec | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | Early | Fixture | 7,087 | 96% | 1.4 | 13 | \$1,916 | 95% | 2.3 |
| FE-Penelec | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | New | Fixture | 2,756 | 92% | 0.5 | 13 | \$1,468 | 95% | 1.1 |
| FE-Penelec | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | New | Fixture | 5,386 | 96% | 1.1 | 13 | \$1,149 | 95% | 2.9 |
| FE-Penelec | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 3,626 | 92% | 0.7 | 13 | \$1,468 | 95% | 1.5 |
| FE-Penelec | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 7,087 | 96% | 1.4 | 13 | \$1,149 | 95% | 3.8 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | Early | Fixture | 1,203 | 67% | 0.2 | 13 | \$960 | 95% | 0.5 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Healthcare | High Bay Lighting | Early | Fixture | 3,543 | 89% | 0.7 | 13 | \$960 | 95% | 2.1 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Healthcare | High Bay Lighting | Early | Fixture | 972 | 59% | 0.1 | 13 | \$960 | 95% | 0.4 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | New | Fixture | 914 | 67% | 0.1 | 13 | \$480 | 95% | 0.8 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Healthcare | High Bay Lighting | New | Fixture | 2,693 | 89% | 0.5 | 13 | \$491 | 95% | 3.1 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Healthcare | High Bay Lighting | New | Fixture | 739 | 59% | 0.09 | 13 | \$406 | 95% | 0.7 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 1,203 | 67% | 0.2 | 13 | \$480 | 95% | 1.1 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 3,543 | 89% | 0.7 | 13 | \$491 | 95% | 4.1 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 972 | 59% | 0.1 | 13 | \$406 | 95% | 0.9 |
| FE-Penelec | Occupancy Sensor | Lighting w/ No Controls | Healthcare | High Bay Lighting | Existing | building | 8,138 | 24% | 0.2 | 8 | \$1,666 | 11% | 0.4 |
| FE-Penelec | Occupancy Sensor | Lighting w/ No Controls | Healthcare | High Bay Lighting | New | building | 8,138 | 6.9% | 0.07 | 8 | \$1,666 | 0% | 0.1 |
| FE-Penelec | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Healthcare | High Bay Lighting | Existing | building | 8,138 | 28% | 0.3 | 8 | \$5,444 | 11% | 0.2 |
| FE-Penelec | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Healthcare | High Bay Lighting | New | building | 8,138 | 4.0% | 0.04 | 8 | \$5,444 | 0% | 0.0 |
| FE-Penelec | Time Clock Control | Lighting w/ No Controls | Healthcare | High Bay Lighting | Existing | building | 8,138 | 28% | 0.3 | 8 | \$1,106 | 13% | 0.8 |
| FE-Penelec | Time Clock Control | Lighting w/ No Controls | Healthcare | High Bay Lighting | New | building | 8,138 | 4.0% | 0.04 | 8 | \$1,106 | 0% | 0.1 |
| FE-Penelec | Auto Off Time Switch | Lighting w/ No Controls | Healthcare | Lin. Fluor. Lighting | Existing | building | 274,839 | 24% | 0.2 | 8 | \$1,106 | 13% | 18.7 |
| FE-Penelec | Auto Off Time Switch | Lighting w/ No Controls | Healthcare | Lin. Fluor. Lighting | New | building | 274,839 | 7.0% | 0.07 | 8 | \$1,106 | 0% | 5.4 |
| FE-Penelec | Central Lighting Control System | Lighting w/ No Controls | Healthcare | Lin. Fluor. Lighting | Existing | building | 274,839 | 38% | 0.4 | 8 | \$1,106 | 12% | 29.5 |
| FE-Penelec | Central Lighting Control System | Lighting w/ No Controls | Healthcare | Lin. Fluor. Lighting | New | building | 274,839 | 14% | 0.1 | 8 | \$1,106 | 12% | 10.9 |
| FE-Penelec | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Healthcare | Lin. Fluor. Lighting | New | building | 274,839 | 10% | 0.1 | 15 | \$32,147 | 32% | 0.5 |
| FE-Penelec | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Healthcare | Lin. Fluor. Lighting | New | building | 274,839 | 15% | 0.2 | 15 | \$80,367 | 32% | 0.3 |
| FE-Penelec | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Healthcare | Lin. Fluor. Lighting | New | building | 274,839 | 30% | 0.3 | 15 | \$115,193 | 32% | 0.4 |
| FE-Penelec | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Healthcare | Lin. Fluor. Lighting | Early | Lamp | 215 | 38% | 0.02 | 10 | \$7.3 | 94% | 5.7 |
| FE-Penelec | Indoor Daylight Sensors | Lighting w/ No Controls | Healthcare | Lin. Fluor. Lighting | Existing | building | 274,839 | 28% | 0.3 | 8 | \$5,444 | 13% | 4.4 |
| FE-Penelec | Indoor Daylight Sensors | Lighting w/ No Controls | Healthcare | Lin. Fluor. Lighting | New | building | 274,839 | 4.1% | 0.04 | 8 | \$5,444 | 0% | 0.6 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | Early | Lamp | 77 | 19% | 0.00 | 15 | \$35 | 94% | 0.3 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 40W T12 Lamp, Magnetic Ballast | Healthcare | Lin. Fluor. Lighting | Early | Lamp | 169 | 63% | 0.02 | 15 | \$35 | 94% | 2.2 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | Early | Lamp | 95 | 34% | 0.01 | 15 | \$35 | 94% | 0.7 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | Early | Lamp | 92 | 32% | 0.01 | 15 | \$35 | 94% | 0.6 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | New | Lamp | 59 | 19% | 0.00 | 15 | \$28 | 94% | 0.3 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | New | Lamp | 70 | 32% | 0.00 | 15 | \$29 | 94% | 0.6 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | New | Lamp | 72 | 34% | 0.01 | 15 | \$22 | 94% | 0.8 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | New | Lamp | 70 | 32% | 0.00 | 15 | \$29 | 94% | 0.6 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | ROB | Lamp | 77 | 19% | 0.00 | 15 | \$28 | 94% | 0.4 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | ROB | Lamp | 92 | 32% | 0.01 | 15 | \$29 | 94% | 0.7 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | ROB | Lamp | 95 | 34% | 0.01 | 15 | \$22 | 94% | 1.1 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | ROB | Lamp | 92 | 32% | 0.01 | 15 | \$29 | 94% | 0.7 |
| FE-Penelec | Occupancy Sensor | Lighting w/ No Controls | Healthcare | Lin. Fluor. Lighting | Existing | building | 274,839 | 24% | 0.2 | 8 | \$1,666 | 12% | 12.4 |
| FE-Penelec | Occupancy Sensor | Lighting w/ No Controls | Healthcare | Lin. Fluor. Lighting | New | building | 274,839 | 7.0% | 0.07 | 8 | \$1,666 | 0% | 3.6 |
| FE-Penelec | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Healthcare | Lin. Fluor. Lighting | Existing | building | 274,839 | 28% | 0.3 | 8 | \$5,444 | 11% | 4.4 |
| FE-Penelec | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Healthcare | Lin. Fluor. Lighting | New | building | 274,839 | 4.1% | 0.04 | 8 | \$5,444 | 0% | 0.6 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 40W T12 w/ Magnetic Ballast | Healthcare | Lin. Fluor. Lighting | Early | Lamp | 215 | 54% | 0.02 | 10 | \$9.1 | 94% | 6.5 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | Early | Lamp | 138 | 28% | 0.01 | 10 | \$9.1 | 24% | 2.2 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | Early | Lamp | 133 | 26% | 0.01 | 10 | \$9.1 | 94% | 1.9 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | New | Lamp | 101 | 26% | 0.01 | 10 | \$2.5 | 94% | 5.3 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | New | Lamp | 101 | 26% | 0.01 | 10 | \$2.5 | 94% | 5.3 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | New | Lamp | 105 | 28% | 0.01 | 10 | \$2.5 | 24% | 6.0 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | New | Lamp | 101 | 26% | 0.01 | 10 | \$2.5 | 94% | 5.3 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | ROB | Lamp | 133 | 26% | 0.01 | 10 | \$2.5 | 94% | 7.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|--|--|------------|---------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | 50 HP Motor, Ultra-PE | 50 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | ROB | motor | 170,794 | 0.5% | 0.1 | 15 | \$273 | 79% | 2.1 |
| FE-Penelec | 50 HP Motor, Ultra-PE | 50 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | ROB | motor | 170,794 | 0.5% | 0.1 | 15 | \$273 | 79% | 2.2 |
| FE-Penelec | 50 HP Motor, Ultra-PE | 50 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | ROB | motor | 170,794 | 0.5% | 0.1 | 15 | \$273 | 79% | 2.1 |
| FE-Penelec | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | Early | motor | 206,522 | 1.8% | 0.5 | 15 | \$4,430 | 70% | 0.5 |
| FE-Penelec | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | Early | motor | 206,522 | 1.8% | 0.5 | 15 | \$4,430 | 70% | 0.5 |
| FE-Penelec | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | Early | motor | 206,522 | 1.8% | 0.5 | 15 | \$4,430 | 70% | 0.6 |
| FE-Penelec | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | Early | motor | 206,522 | 1.8% | 0.5 | 15 | \$4,430 | 70% | 0.5 |
| FE-Penelec | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | New | motor | 203,874 | 0.5% | 0.1 | 15 | \$431 | 70% | 1.6 |
| FE-Penelec | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | New | motor | 203,874 | 0.5% | 0.1 | 15 | \$431 | 70% | 1.6 |
| FE-Penelec | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | New | motor | 203,874 | 0.5% | 0.1 | 15 | \$431 | 70% | 1.6 |
| FE-Penelec | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | New | motor | 203,874 | 0.5% | 0.2 | 15 | \$431 | 70% | 1.6 |
| FE-Penelec | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | New | motor | 203,874 | 0.5% | 0.1 | 15 | \$431 | 70% | 1.6 |
| FE-Penelec | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | ROB | motor | 203,874 | 0.5% | 0.1 | 15 | \$431 | 70% | 1.6 |
| FE-Penelec | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | ROB | motor | 203,874 | 0.5% | 0.1 | 15 | \$431 | 70% | 1.6 |
| FE-Penelec | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | ROB | motor | 203,874 | 0.5% | 0.2 | 15 | \$431 | 70% | 1.7 |
| FE-Penelec | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | ROB | motor | 203,874 | 0.5% | 0.1 | 15 | \$431 | 70% | 1.6 |
| FE-Penelec | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | Early | motor | 27,256 | 2.9% | 0.1 | 15 | \$802 | 83% | 0.6 |
| FE-Penelec | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | Early | motor | 27,256 | 2.9% | 0.1 | 15 | \$802 | 83% | 0.6 |
| FE-Penelec | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | Early | motor | 27,256 | 2.9% | 0.1 | 15 | \$802 | 83% | 0.6 |
| FE-Penelec | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | Early | motor | 27,256 | 2.9% | 0.1 | 15 | \$802 | 83% | 0.7 |
| FE-Penelec | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | Early | motor | 27,256 | 2.9% | 0.1 | 15 | \$802 | 83% | 0.6 |
| FE-Penelec | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | New | motor | 26,604 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.7 |
| FE-Penelec | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | New | motor | 26,604 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.7 |
| FE-Penelec | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | New | motor | 26,604 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.7 |
| FE-Penelec | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | New | motor | 26,604 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.8 |
| FE-Penelec | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | New | motor | 26,604 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.7 |
| FE-Penelec | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | ROB | motor | 26,604 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.7 |
| FE-Penelec | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | ROB | motor | 26,604 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.7 |
| FE-Penelec | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | ROB | motor | 26,604 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.8 |
| FE-Penelec | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | ROB | motor | 26,604 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.7 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | Early | motor | 256,961 | 1.3% | 0.4 | 15 | \$3,955 | 61% | 0.5 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | Early | motor | 256,961 | 1.3% | 0.4 | 15 | \$3,955 | 61% | 0.5 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | Early | motor | 256,961 | 1.3% | 0.5 | 15 | \$3,955 | 61% | 0.6 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | Early | motor | 256,961 | 1.3% | 0.4 | 15 | \$3,955 | 61% | 0.5 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | New | motor | 254,843 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.5 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | New | motor | 254,843 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.5 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | New | motor | 254,843 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.5 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | New | motor | 254,843 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.5 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | ROB | motor | 254,843 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.5 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | ROB | motor | 254,843 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.5 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | ROB | motor | 254,843 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.5 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | ROB | motor | 254,843 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.6 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | ROB | motor | 254,843 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.5 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | ROB | motor | 254,843 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.5 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | ROB | motor | 254,843 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.6 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | ROB | motor | 254,843 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.5 |
| FE-Penelec | ASD HVAC Fan | Std. HVAC Fan | Healthcare | Motors | New | measure | 106,370 | 9.1% | 1.1 | 15 | \$38,470 | 85% | 0.2 |
| FE-Penelec | ASD HVAC Fan | Std. HVAC Fan | Healthcare | Motors | ROB | measure | 106,370 | 9.1% | 1.1 | 15 | \$38,470 | 85% | 0.2 |
| FE-Penelec | CO sensors for parking garage exhaust fans | No CO Sensors | Healthcare | Motors | Existing | building | 20,213 | 19% | 0.2 | 8 | \$1,061 | 4% | 1.2 |
| FE-Penelec | CO sensors for parking garage exhaust fans | No CO Sensors | Healthcare | Motors | New | building | 20,213 | 19% | 0.2 | 8 | \$1,061 | 4% | 1.2 |
| FE-Penelec | demand controlled ventilation | Absence of Demand Controlled Ventilation | Healthcare | Motors | Early | measure | 106,370 | 5.9% | 0.7 | 10 | \$61,325 | 92% | 0.0 |
| FE-Penelec | demand controlled ventilation | Office building thermostat | Healthcare | Motors | New | measure | 106,370 | 5.9% | 0.7 | 10 | \$45,787 | 92% | 0.1 |
| FE-Penelec | demand controlled ventilation | Office building thermostat | Healthcare | Motors | ROB | measure | 106,370 | 5.9% | 0.7 | 10 | \$45,787 | 92% | 0.1 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Healthcare | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 21.6 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Healthcare | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 22.2 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Healthcare | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 22.5 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Healthcare | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 23.0 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Healthcare | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 23.6 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Healthcare | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 21.7 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Healthcare | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 22.2 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Healthcare | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 22.7 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Healthcare | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 23.2 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Healthcare | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 23.4 |
| FE-Penelec | Escalator Motor Controller | Constant power control | Healthcare | Motors | New | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 67% | 5.9 |
| FE-Penelec | Escalator Motor Controller | Constant power control | Healthcare | Motors | ROB | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 67% | 5.9 |
| FE-Penelec | Fan Motor - correct sizing | Incorrect Fan Motor Sizing | Healthcare | Motors | ROB | measure | 106,370 | 2.9% | 0.4 | 15 | \$50 | 92% | 37.6 |
| FE-Penelec | Variable Speed Drive Control, 15HP | Existing Motors w/out VSD Drive | Healthcare | Motors | Early | motor | 53,209 | 70% | 5.5 | 15 | \$731 | 86% | 34.0 |
| FE-Penelec | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Healthcare | Motors | New | motor | 52,065 | 72% | 5.5 | 15 | \$731 | 86% | 34.1 |
| FE-Penelec | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Healthcare | Motors | ROB | motor | 52,065 | 72% | 5.5 | 15 | \$731 | 86% | 34.1 |
| FE-Penelec | Variable Speed Drive Control, 40HP | Existing Motors w/out VSD Drive | Healthcare | Motors | Early | motor | 138,839 | 71% | 14.4 | 15 | \$4,666 | 86% | 14.1 |
| FE-Penelec | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Healthcare | Motors | New | motor | 137,216 | 72% | 14.4 | 15 | \$4,666 | 86% | 14.1 |
| FE-Penelec | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Healthcare | Motors | ROB | motor | 137,216 | 72% | 14.5 | 15 | \$4,666 | 86% | 14.1 |
| FE-Penelec | Variable Speed Drive Control, 5HP | Existing Motors w/out VFD Drive | Healthcare | Motors | Early | motor | 18,446 | 70% | 1.9 | 15 | \$2,243 | 86% | 3.8 |
| FE-Penelec | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Healthcare | Motors | New | motor | 18,034 | 72% | 1.9 | 15 | \$2,243 | 86% | 3.8 |
| FE-Penelec | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Healthcare | Motors | ROB | motor | 18,034 | 72% | 1.9 | 15 | \$2,243 | 86% | 3.8 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|--|------------|---------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Healthcare | Motors | Early | motor | 141,406 | 0.8% | 0.1 | 15 | \$268 | 40% | 2.6 |
| FE-Penelec | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Healthcare | Motors | New | motor | 141,406 | 0.8% | 0.1 | 15 | \$268 | 40% | 2.6 |
| FE-Penelec | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Healthcare | Motors | ROB | motor | 141,406 | 0.8% | 0.1 | 15 | \$268 | 40% | 2.6 |
| FE-Penelec | VFD on Chilled Water Pump | Motor w/out VFD Drive | Healthcare | Motors | Early | motor | 41,408 | 54% | 2.7 | 15 | \$2,903 | 86% | 4.8 |
| FE-Penelec | VFD on Chilled Water Pump | Motor w/out VFD Drive | Healthcare | Motors | New | motor | 40,634 | 55% | 2.7 | 15 | \$2,843 | 86% | 4.9 |
| FE-Penelec | VFD on Chilled Water Pump | Motor w/out VFD Drive | Healthcare | Motors | ROB | motor | 40,634 | 55% | 2.7 | 15 | \$2,843 | 86% | 4.9 |
| FE-Penelec | VFD on Condenser Water Pump | Motor w/out VFD Drive | Healthcare | Motors | Early | motor | 33,300 | 32% | 3.2 | 15 | \$2,903 | 86% | 2.9 |
| FE-Penelec | VFD on Condenser Water Pump | Motor w/out VFD Drive | Healthcare | Motors | New | motor | 32,677 | 33% | 3.1 | 15 | \$2,843 | 86% | 2.9 |
| FE-Penelec | VFD on Condenser Water Pump | Motor w/out VFD Drive | Healthcare | Motors | ROB | motor | 32,677 | 33% | 3.1 | 15 | \$2,843 | 86% | 2.9 |
| FE-Penelec | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Healthcare | Motors | Early | motor | 68,616 | 56% | 0.00 | 15 | \$2,903 | 86% | 6.7 |
| FE-Penelec | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Healthcare | Motors | New | motor | 67,332 | 57% | 0.00 | 15 | \$2,843 | 86% | 6.8 |
| FE-Penelec | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Healthcare | Motors | ROB | motor | 67,332 | 57% | 0.00 | 15 | \$2,843 | 86% | 6.8 |
| FE-Penelec | VFD on HVAC Fan | Motor w/out VFD | Healthcare | Motors | Early | motor | 41,404 | 70% | 3.4 | 15 | \$2,903 | 86% | 6.4 |
| FE-Penelec | VFD on HVAC Fan | Motor w/out VFD | Healthcare | Motors | New | motor | 40,629 | 72% | 3.3 | 15 | \$2,843 | 86% | 6.5 |
| FE-Penelec | VFD on HVAC Fan | Motor w/out VFD | Healthcare | Motors | ROB | motor | 40,629 | 72% | 3.3 | 15 | \$2,843 | 86% | 6.5 |
| FE-Penelec | Elevators | Std. Eff Elevator | Healthcare | Other | ROB | measure | 89,016 | 2.0% | 0.7 | 15 | \$2,110 | 81% | 0.7 |
| FE-Penelec | Variable Speed Drives on Process Equipment | Constant speed control | Healthcare | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 10.6 |
| FE-Penelec | Variable Speed Drives on Process Equipment | Constant speed control | Healthcare | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 10.6 |
| FE-Penelec | Auto Off Time Switch | Lighting w/ No Controls | Healthcare | Other Int. Lighting | Existing | building | 104,556 | 24% | 0.2 | 8 | \$1,106 | 13% | 7.2 |
| FE-Penelec | Auto Off Time Switch | Lighting w/ No Controls | Healthcare | Other Int. Lighting | New | building | 104,556 | 7.0% | 0.07 | 8 | \$1,106 | 0% | 2.1 |
| FE-Penelec | Central Lighting Control System | Lighting w/ No Controls | Healthcare | Other Int. Lighting | Existing | building | 104,556 | 38% | 0.4 | 8 | \$1,106 | 13% | 11.4 |
| FE-Penelec | Central Lighting Control System | Lighting w/ No Controls | Healthcare | Other Int. Lighting | New | building | 104,556 | 14% | 0.1 | 8 | \$1,106 | 13% | 4.2 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 40W Incandescent Bulb | Healthcare | Other Int. Lighting | Early | lamp | 178 | 87% | 0.03 | 8 | \$30 | 14% | 2.2 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Healthcare | Other Int. Lighting | Early | lamp | 128 | 81% | 0.02 | 8 | \$30 | 11% | 1.5 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Healthcare | Other Int. Lighting | New | lamp | 97 | 81% | 0.02 | 8 | \$21 | 14% | 1.6 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Healthcare | Other Int. Lighting | New | lamp | 97 | 81% | 0.02 | 8 | \$23 | 14% | 1.5 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Healthcare | Other Int. Lighting | New | lamp | 97 | 81% | 0.02 | 8 | \$22 | 11% | 1.6 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Healthcare | Other Int. Lighting | ROB | lamp | 128 | 81% | 0.02 | 8 | \$21 | 14% | 2.1 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Healthcare | Other Int. Lighting | ROB | lamp | 128 | 81% | 0.02 | 8 | \$23 | 14% | 2.0 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Healthcare | Other Int. Lighting | ROB | lamp | 128 | 81% | 0.02 | 8 | \$22 | 11% | 2.0 |
| FE-Penelec | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Healthcare | Other Int. Lighting | Early | lamp | 178 | 75% | 0.03 | 3 | \$73 | 39% | 0.3 |
| FE-Penelec | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Healthcare | Other Int. Lighting | New | fixture | 194 | 65% | 0.03 | 13 | \$29 | 46% | 2.8 |
| FE-Penelec | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Healthcare | Other Int. Lighting | New | lamp | 97 | 65% | 0.01 | 3 | \$29 | 46% | 0.4 |
| FE-Penelec | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Healthcare | Other Int. Lighting | ROB | fixture | 255 | 65% | 0.03 | 13 | \$29 | 39% | 3.7 |
| FE-Penelec | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Healthcare | Other Int. Lighting | ROB | lamp | 128 | 65% | 0.02 | 3 | \$29 | 39% | 0.5 |
| FE-Penelec | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Healthcare | Other Int. Lighting | Early | lamp | 178 | 75% | 0.03 | 3 | \$3.2 | 24% | 7.8 |
| FE-Penelec | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Healthcare | Other Int. Lighting | New | lamp | 97 | 65% | 0.01 | 3 | \$1.8 | 24% | 6.6 |
| FE-Penelec | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Healthcare | Other Int. Lighting | ROB | lamp | 128 | 65% | 0.02 | 3 | \$1.8 | 24% | 8.7 |
| FE-Penelec | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Healthcare | Other Int. Lighting | ROB | lamp | 128 | 65% | 0.02 | 3 | \$1.8 | 24% | 8.7 |
| FE-Penelec | Exit Sign Retrofit: CFL replacing Incandescent | One 23W Single Sided Incandescent Exit Sign | Healthcare | Other Int. Lighting | Early | exit sign | 138 | 42% | 0.01 | 15 | \$48 | 22% | 0.8 |
| FE-Penelec | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Healthcare | Other Int. Lighting | New | building | 104,556 | 10% | 0.1 | 15 | \$32,147 | 32% | 0.2 |
| FE-Penelec | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Healthcare | Other Int. Lighting | New | building | 104,556 | 15% | 0.2 | 15 | \$80,367 | 32% | 0.1 |
| FE-Penelec | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Healthcare | Other Int. Lighting | New | building | 104,556 | 30% | 0.3 | 15 | \$115,193 | 32% | 0.1 |
| FE-Penelec | Indoor Daylight Sensors | Lighting w/ No Controls | Healthcare | Other Int. Lighting | Existing | building | 104,556 | 28% | 0.3 | 8 | \$5,444 | 13% | 1.7 |
| FE-Penelec | Indoor Daylight Sensors | Lighting w/ No Controls | Healthcare | Other Int. Lighting | New | building | 104,556 | 4.1% | 0.04 | 8 | \$5,444 | 0% | 0.2 |
| FE-Penelec | LED Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Healthcare | Other Int. Lighting | Early | sign | 153 | 87% | 0.02 | 15 | \$48 | 16% | 1.8 |
| FE-Penelec | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Healthcare | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 2.0 |
| FE-Penelec | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Healthcare | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 2.0 |
| FE-Penelec | LED Task Lighting/Screw-In | 1 15W CFL bulb | Healthcare | Other Int. Lighting | Early | lamp | 37 | 33% | 0.00 | 10 | \$9.6 | 24% | 0.7 |
| FE-Penelec | LED Task Lighting/Screw-In | 1 60W Incandescent Bulb | Healthcare | Other Int. Lighting | Early | lamp | 150 | 83% | 0.03 | 10 | \$9.6 | 24% | 6.9 |
| FE-Penelec | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Healthcare | Other Int. Lighting | New | lamp | 82 | 77% | 0.01 | 10 | \$7.9 | 24% | 4.2 |
| FE-Penelec | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Healthcare | Other Int. Lighting | New | lamp | 82 | 77% | 0.01 | 10 | \$7.9 | 24% | 4.2 |
| FE-Penelec | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Healthcare | Other Int. Lighting | ROB | lamp | 107 | 77% | 0.02 | 10 | \$7.9 | 24% | 5.5 |
| FE-Penelec | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Healthcare | Other Int. Lighting | ROB | lamp | 107 | 77% | 0.02 | 10 | \$7.9 | 24% | 5.5 |
| FE-Penelec | Occupancy Sensor | Lighting w/ No Controls | Healthcare | Other Int. Lighting | Existing | building | 104,556 | 24% | 0.2 | 8 | \$1,666 | 11% | 4.8 |
| FE-Penelec | Occupancy Sensor | Lighting w/ No Controls | Healthcare | Other Int. Lighting | New | building | 104,556 | 7.0% | 0.07 | 8 | \$1,666 | 0% | 1.4 |
| FE-Penelec | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Healthcare | Other Int. Lighting | Existing | building | 104,556 | 28% | 0.3 | 8 | \$5,444 | 11% | 1.7 |
| FE-Penelec | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Healthcare | Other Int. Lighting | New | building | 104,556 | 4.1% | 0.04 | 8 | \$5,444 | 0% | 0.2 |
| FE-Penelec | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Healthcare | Other Int. Lighting | Early | exit sign | 138 | 100% | 0.02 | 15 | \$173 | 26% | 0.5 |
| FE-Penelec | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Healthcare | Other Int. Lighting | New | exit sign | 80 | 100% | 0.01 | 15 | \$148 | 31% | 0.4 |
| FE-Penelec | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Healthcare | Other Int. Lighting | ROB | exit sign | 80 | 100% | 0.01 | 15 | \$148 | 26% | 0.4 |
| FE-Penelec | Time Clock Control | Lighting w/ No Controls | Healthcare | Other Int. Lighting | Existing | building | 104,556 | 28% | 0.3 | 8 | \$1,106 | 13% | 8.4 |
| FE-Penelec | Time Clock Control | Lighting w/ No Controls | Healthcare | Other Int. Lighting | New | building | 104,556 | 4.1% | 0.04 | 8 | \$1,106 | 0% | 1.2 |
| FE-Penelec | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Healthcare | Plug Load | Existing | building | 6,362 | 46% | 0.5 | 5 | \$189 | 4% | 4.1 |
| FE-Penelec | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Healthcare | Plug Load | New | building | 6,362 | 46% | 0.5 | 5 | \$189 | 4% | 4.1 |
| FE-Penelec | Data Center - Server/Storage Consolidation | No Consolidation | Healthcare | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penelec | Data Center - Server/Storage Consolidation | No Consolidation | Healthcare | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penelec | Data Center - Server/Storage Virtualization | No Virtualization | Healthcare | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penelec | Data Center - Server/Storage Virtualization | No Virtualization | Healthcare | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penelec | Energy Star - Scanners | Std Scanner | Healthcare | Plug Load | New | measure | 68 | 3.9% | 0.04 | 4 | \$777 | 7% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|---|------------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Energy Star - Scanners | Std Scanner | Healthcare | Plug Load | ROB | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| FE-Penelec | Energy Star Battery Charging System (for small cordless products) | Std. Battery Charging System | Healthcare | Plug Load | ROB | measure | 593 | 2.3% | 4.8 | 5 | \$65 | 4% | 29.7 |
| FE-Penelec | Energy Star Dishwasher | Existing Dishwasher units | Healthcare | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,550 | 6% | 1.0 |
| FE-Penelec | Energy Star Dishwasher | Standard Dishwasher unit | Healthcare | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,003 | 6% | 3.5 |
| FE-Penelec | Energy Star Dishwasher | Standard Dishwasher unit | Healthcare | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,003 | 6% | 3.5 |
| FE-Penelec | Energy Star External Power Adapter | Std. Power Adapter | Healthcare | Plug Load | New | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| FE-Penelec | Energy Star External Power Adapter | Std. Power Adapter | Healthcare | Plug Load | ROB | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| FE-Penelec | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Healthcare | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 17% | 0.2 |
| FE-Penelec | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Healthcare | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.0 |
| FE-Penelec | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Healthcare | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.0 |
| FE-Penelec | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Healthcare | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 9% | 0.8 |
| FE-Penelec | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Healthcare | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.7 |
| FE-Penelec | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Healthcare | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.7 |
| FE-Penelec | ENERGY STAR® Copiers | 10% Less Efficient Copier | Healthcare | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 80% | 0.0 |
| FE-Penelec | ENERGY STAR® Copiers | One Conventional Copier | Healthcare | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 80% | 0.0 |
| FE-Penelec | ENERGY STAR® Copiers | One Conventional Copier | Healthcare | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 80% | 0.0 |
| FE-Penelec | ENERGY STAR® desktop | Standard computer | Healthcare | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 69% | 0.1 |
| FE-Penelec | ENERGY STAR® desktop | Standard computer | Healthcare | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.3 |
| FE-Penelec | ENERGY STAR® desktop | Standard computer | Healthcare | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.3 |
| FE-Penelec | ENERGY STAR® Fax | 10% Less Efficient Fax | Healthcare | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 15% | 0.0 |
| FE-Penelec | ENERGY STAR® Fax | One Conventional Fax | Healthcare | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| FE-Penelec | ENERGY STAR® Fax | One Conventional Fax | Healthcare | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| FE-Penelec | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Healthcare | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 70% | 0.0 |
| FE-Penelec | ENERGY STAR® Monitors | One Conventional Monitor | Healthcare | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| FE-Penelec | ENERGY STAR® Monitors | One Conventional Monitor | Healthcare | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| FE-Penelec | ENERGY STAR® Printers | 10% Less Efficient Printer | Healthcare | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 44% | 0.0 |
| FE-Penelec | ENERGY STAR® Printers | One Conventional Printer | Healthcare | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| FE-Penelec | ENERGY STAR® Printers | One Conventional Printer | Healthcare | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| FE-Penelec | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Healthcare | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 43% | 0.1 |
| FE-Penelec | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Healthcare | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.7 |
| FE-Penelec | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Healthcare | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.7 |
| FE-Penelec | ENERGY STAR® Televisions | 10% Less Efficient Television | Healthcare | Plug Load | Early | Unit | 230 | 38% | 0.02 | 6 | \$672 | 40% | 0.0 |
| FE-Penelec | ENERGY STAR® Televisions | One Conventional Television | Healthcare | Plug Load | New | Unit | 209 | 32% | 0.01 | 6 | \$206 | 40% | 0.1 |
| FE-Penelec | ENERGY STAR® Televisions | One Conventional Television | Healthcare | Plug Load | ROB | Unit | 209 | 32% | 0.01 | 6 | \$206 | 40% | 0.1 |
| FE-Penelec | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Healthcare | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 24% | 0.3 |
| FE-Penelec | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Healthcare | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.6 |
| FE-Penelec | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Healthcare | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.6 |
| FE-Penelec | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Healthcare | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 73% | 0.3 |
| FE-Penelec | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Healthcare | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 73% | 0.3 |
| FE-Penelec | Network PC Power Management | No PC Power Management | Healthcare | Plug Load | Existing | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 57.0 |
| FE-Penelec | Network PC Power Management | No PC Power Management | Healthcare | Plug Load | New | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 57.0 |
| FE-Penelec | Smart Strip Plug Outlets | Standard plug strip/outlet | Healthcare | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.4 |
| FE-Penelec | Smart Strip Plug Outlets | Standard plug strip/outlet | Healthcare | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.4 |
| FE-Penelec | Smart Strip Plug Outlets | Standard plug strip/outlet | Healthcare | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Penelec | Smart Strip Plug Outlets | Standard plug strip/outlet | Healthcare | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Penelec | Smart Strip Plug Outlets | Standard plug strip/outlet | Healthcare | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Penelec | Smart Strip Plug Outlets | Standard plug strip/outlet | Healthcare | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Penelec | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Healthcare | Plug Load | Existing | building | 6,362 | 46% | 0.5 | 5 | \$180 | 3% | 4.3 |
| FE-Penelec | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Healthcare | Plug Load | New | building | 6,362 | 46% | 0.5 | 5 | \$180 | 3% | 4.3 |
| FE-Penelec | Air curtain technology | Strip plastic curtain | Healthcare | Refrigeration | New | building | 2,019 | 6.8% | 0.07 | 8 | \$1,726 | 35% | 0.0 |
| FE-Penelec | Air curtain technology | Strip plastic curtain | Healthcare | Refrigeration | New | building | 22,460 | 6.8% | 0.07 | 8 | \$1,664 | 35% | 0.3 |
| FE-Penelec | Auto Closer on Refrigerator Door | Door w/out Autocloser | Healthcare | Refrigeration | Existing | building | 2,019 | 11% | 0.1 | 8 | \$749 | 40% | 0.2 |
| FE-Penelec | Auto Closer on Refrigerator Door | Door w/out Autocloser | Healthcare | Refrigeration | Existing | building | 22,460 | 6.7% | 0.07 | 8 | \$833 | 40% | 0.6 |
| FE-Penelec | Auto Closer on Refrigerator Door | Door w/out Autocloser | Healthcare | Refrigeration | New | building | 2,019 | 11% | 0.1 | 8 | \$749 | 40% | 0.2 |
| FE-Penelec | Auto Closer on Refrigerator Door | Door w/out Autocloser | Healthcare | Refrigeration | New | building | 22,460 | 6.7% | 0.07 | 8 | \$833 | 40% | 0.6 |
| FE-Penelec | Door Gasket- Freezer | Door w/out Gasket | Healthcare | Refrigeration | Existing | building | 2,019 | 5.8% | 0.06 | 4 | \$77 | 29% | 0.5 |
| FE-Penelec | Door Gasket- Freezer | Door w/out Gasket | Healthcare | Refrigeration | New | building | 2,019 | 5.8% | 0.06 | 4 | \$77 | 29% | 0.5 |
| FE-Penelec | Door Gasket- Refrigerator | Door w/out Gasket | Healthcare | Refrigeration | Existing | building | 22,460 | 2.1% | 0.02 | 4 | \$115 | 45% | 0.7 |
| FE-Penelec | Door Gasket- Refrigerator | Door w/out Gasket | Healthcare | Refrigeration | New | building | 22,460 | 2.1% | 0.02 | 4 | \$115 | 45% | 0.7 |
| FE-Penelec | Economizer for Walk-in Coolers | No Economizer | Healthcare | Refrigeration | Early | measure | 25,239 | 6.6% | 0.2 | 10 | \$293 | 72% | 2.5 |
| FE-Penelec | Economizer for Walk-in Coolers | No Economizer | Healthcare | Refrigeration | Early | measure | 25,239 | 6.6% | 0.2 | 10 | \$293 | 72% | 2.5 |
| FE-Penelec | Economizer for Walk-in Coolers | No Economizer | Healthcare | Refrigeration | Early | measure | 25,239 | 6.6% | 0.2 | 10 | \$293 | 72% | 2.5 |
| FE-Penelec | Economizer for Walk-in Coolers | No Economizer | Healthcare | Refrigeration | New | measure | 25,239 | 6.6% | 0.2 | 10 | \$35 | 72% | 21.6 |
| FE-Penelec | Economizer for Walk-in Coolers | No Economizer | Healthcare | Refrigeration | New | measure | 25,239 | 6.6% | 0.2 | 10 | \$35 | 72% | 21.6 |
| FE-Penelec | Economizer for Walk-in Coolers | No Economizer | Healthcare | Refrigeration | New | measure | 25,239 | 6.6% | 0.2 | 10 | \$35 | 72% | 21.7 |
| FE-Penelec | Economizer for Walk-in Coolers | No Economizer | Healthcare | Refrigeration | ROB | measure | 25,239 | 6.6% | 0.2 | 10 | \$35 | 72% | 21.6 |
| FE-Penelec | Economizer for Walk-in Coolers | No Economizer | Healthcare | Refrigeration | ROB | measure | 25,239 | 6.6% | 0.2 | 10 | \$35 | 72% | 21.6 |
| FE-Penelec | Economizer for Walk-in Coolers | No Economizer | Healthcare | Refrigeration | ROB | measure | 25,239 | 6.6% | 0.2 | 10 | \$35 | 72% | 21.7 |
| FE-Penelec | eCube | Refrigeration unit w/out eCube | Healthcare | Refrigeration | Existing | building | 22,460 | 15% | 0.2 | 15 | \$443 | 57% | 4.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|--|------------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | eCube | Refrigeration unit w/out eCube | Healthcare | Refrigeration | New | building | 22,460 | 15% | 0.2 | 15 | \$443 | 57% | 4.1 |
| FE-Penelec | Efficient compressor motor | Base Refrigeration System - Grocery | Healthcare | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.6 |
| FE-Penelec | Efficient compressor motor | Base Refrigeration System - Grocery | Healthcare | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.6 |
| FE-Penelec | Efficient compressor motor | Base Refrigeration System - Grocery | Healthcare | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.6 |
| FE-Penelec | Efficient compressor motor | Base Refrigeration System - Grocery | Healthcare | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.6 |
| FE-Penelec | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Healthcare | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.5 |
| FE-Penelec | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Healthcare | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| FE-Penelec | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Healthcare | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| FE-Penelec | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Healthcare | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.3 |
| FE-Penelec | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Healthcare | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.7 |
| FE-Penelec | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Healthcare | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.7 |
| FE-Penelec | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Healthcare | Refrigeration | Existing | building | 22,460 | 0.7% | 0.01 | 10 | \$369 | 77% | 0.2 |
| FE-Penelec | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Healthcare | Refrigeration | New | building | 22,460 | 0.7% | 0.01 | 10 | \$369 | 77% | 0.2 |
| FE-Penelec | Floating head pressure controller | System w/out FHPC | Healthcare | Refrigeration | Existing | building | 2,019 | 12% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penelec | Floating head pressure controller | System w/out FHPC | Healthcare | Refrigeration | Existing | building | 22,460 | 0.4% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penelec | Floating head pressure controller | System w/out FHPC | Healthcare | Refrigeration | New | building | 2,019 | 12% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penelec | Floating head pressure controller | System w/out FHPC | Healthcare | Refrigeration | New | building | 22,460 | 0.4% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penelec | High Efficiency Commercial Freezer | Std. Commercial Freezer | Healthcare | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 84% | 0.3 |
| FE-Penelec | High Efficiency Commercial Freezer | Std. Commercial Freezer | Healthcare | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 84% | 3.8 |
| FE-Penelec | High Efficiency Commercial Freezer | Std. Commercial Freezer | Healthcare | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 84% | 3.8 |
| FE-Penelec | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Healthcare | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 21% | 0.1 |
| FE-Penelec | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Healthcare | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 21% | 0.8 |
| FE-Penelec | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Healthcare | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 21% | 0.8 |
| FE-Penelec | High Efficiency Ice Maker | Existing Standard Efficiency Ice Maker in Pennsylvania | Healthcare | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 69% | 0.1 |
| FE-Penelec | High Efficiency Ice Maker | Standard code minimum Ice Maker | Healthcare | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 69% | 0.2 |
| FE-Penelec | High Efficiency Ice Maker | Standard code minimum Ice Maker | Healthcare | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 69% | 0.2 |
| FE-Penelec | High Efficiency Ice Making Head | Standard Ice Making Head | Healthcare | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.7 |
| FE-Penelec | High Efficiency Ice Making Head | Standard Ice Making Head | Healthcare | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.7 |
| FE-Penelec | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Healthcare | Refrigeration | Early | Fixture | 373 | 56% | 0.02 | 8 | \$448 | 86% | 0.2 |
| FE-Penelec | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Healthcare | Refrigeration | New | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 86% | 0.3 |
| FE-Penelec | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Healthcare | Refrigeration | ROB | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 86% | 0.3 |
| FE-Penelec | Quick acting freezer doors | Std. Freezer Doors | Healthcare | Refrigeration | Existing | building | 2,019 | 13% | 0.1 | 10 | \$2,083 | 56% | 0.1 |
| FE-Penelec | Quick acting freezer doors | Std. Freezer Doors | Healthcare | Refrigeration | New | building | 2,019 | 13% | 0.1 | 10 | \$2,083 | 56% | 0.1 |
| FE-Penelec | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Healthcare | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 29% | 0.4 |
| FE-Penelec | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Healthcare | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 29% | 1.5 |
| FE-Penelec | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Healthcare | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 29% | 1.5 |
| FE-Penelec | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 29% | 1.6 |
| FE-Penelec | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 29% | 2.8 |
| FE-Penelec | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 29% | 2.8 |
| FE-Penelec | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 29% | 1.6 |
| FE-Penelec | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 29% | 3.8 |
| FE-Penelec | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 29% | 3.8 |
| FE-Penelec | Refrigeration Commissioning | Non-commissioned refrigeration system | Healthcare | Refrigeration | Existing | building | 25,236 | 9.5% | 0.10 | 3 | \$1,147 | 85% | 0.3 |
| FE-Penelec | Refrigeration Commissioning | Non-commissioned refrigeration system | Healthcare | Refrigeration | New | building | 25,236 | 9.5% | 0.10 | 3 | \$1,147 | 85% | 0.3 |
| FE-Penelec | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Healthcare | Refrigeration | Existing | building | 2,019 | 14% | 0.1 | 4 | \$93 | 22% | 1.0 |
| FE-Penelec | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Healthcare | Refrigeration | Existing | building | 22,460 | 2.9% | 0.03 | 4 | \$140 | 22% | 0.8 |
| FE-Penelec | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Healthcare | Refrigeration | New | building | 2,019 | 14% | 0.1 | 4 | \$93 | 22% | 1.0 |
| FE-Penelec | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Healthcare | Refrigeration | New | building | 22,460 | 2.9% | 0.03 | 4 | \$140 | 22% | 0.8 |
| FE-Penelec | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Healthcare | Refrigeration | Existing | building | 2,019 | 2.6% | 0.03 | 11 | \$130 | 77% | 0.3 |
| FE-Penelec | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Healthcare | Refrigeration | New | building | 2,019 | 2.6% | 0.03 | 11 | \$130 | 77% | 0.3 |
| FE-Penelec | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Healthcare | Refrigeration | Existing | building | 22,460 | 2.0% | 0.02 | 11 | \$130 | 77% | 1.4 |
| FE-Penelec | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Healthcare | Refrigeration | New | building | 22,460 | 2.0% | 0.02 | 11 | \$130 | 77% | 1.4 |
| FE-Penelec | Vendor Miser | No Vendor Miser | Healthcare | Refrigeration | Existing | machine | 1,009 | 12% | 0.1 | 8 | \$101 | 7% | 1.1 |
| FE-Penelec | VSD Controlled Compressor | Compressor w/out VSD | Healthcare | Refrigeration | Early | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 73% | 0.1 |
| FE-Penelec | VSD Controlled Compressor | Compressor w/out VSD | Healthcare | Refrigeration | New | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 73% | 0.1 |
| FE-Penelec | VSD Controlled Compressor | Compressor w/out VSD | Healthcare | Refrigeration | ROB | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 73% | 0.1 |
| FE-Penelec | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Healthcare | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$269 | 35% | 0.9 |
| FE-Penelec | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Healthcare | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$269 | 35% | 0.8 |
| FE-Penelec | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Healthcare | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.0 |
| FE-Penelec | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Healthcare | Refrigeration | New | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 2.9 |
| FE-Penelec | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Healthcare | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.0 |
| FE-Penelec | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Healthcare | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 2.9 |
| FE-Penelec | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 35% | 2.3 |
| FE-Penelec | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 35% | 2.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|--|------------|-----------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 4.9 |
| FE-Penelec | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.6 |
| FE-Penelec | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 4.9 |
| FE-Penelec | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.6 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Healthcare | Space Heating | Existing | building | 34,004 | 7.1% | 0.07 | 6 | \$15,263 | 82% | 0.0 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Healthcare | Space Heating | New | building | 34,004 | 7.1% | 0.07 | 6 | \$15,263 | 82% | 0.0 |
| FE-Penelec | Adding window shade film | No shade film | Healthcare | Space Heating | Existing | building | 34,004 | 1.3% | 0.4 | 10 | \$414 | 13% | 1.0 |
| FE-Penelec | Adding window shade film | No shade film | Healthcare | Space Heating | New | building | 34,004 | 1.3% | 0.4 | 10 | \$414 | 13% | 1.0 |
| FE-Penelec | Adding window shade screen | No shade screen | Healthcare | Space Heating | Existing | building | 34,004 | 1.1% | 0.01 | 10 | \$160 | 13% | 0.8 |
| FE-Penelec | Adding window shade screen | No shade screen | Healthcare | Space Heating | New | building | 34,004 | 1.1% | 0.01 | 10 | \$160 | 13% | 0.8 |
| FE-Penelec | Automated control system | Manual Controls | Healthcare | Space Heating | Existing | building | 34,004 | 17% | 0.2 | 15 | \$37,226 | 51% | 0.1 |
| FE-Penelec | Automated control system | Manual Controls | Healthcare | Space Heating | New | building | 34,004 | 17% | 0.2 | 15 | \$37,226 | 94% | 0.1 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Healthcare | Space Heating | Existing | building | 34,004 | 1.1% | 0.01 | 15 | \$20,566 | 71% | 0.0 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Healthcare | Space Heating | New | building | 34,004 | 0.3% | 0.00 | 15 | \$19,549 | 94% | 0.0 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Healthcare | Space Heating | Existing | building | 34,004 | 1.4% | 0.04 | 15 | \$270 | 20% | 1.0 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Healthcare | Space Heating | New | building | 34,004 | 1.4% | 0.04 | 15 | \$270 | 10% | 1.0 |
| FE-Penelec | Efficient Unit Heating System | Existing Unit Heaters in PA | Healthcare | Space Heating | Early | heater | 18,031 | 23% | 0.03 | 15 | \$3,289 | 83% | 0.6 |
| FE-Penelec | Efficient Unit Heating System | Std. Unit Heater | Healthcare | Space Heating | New | heater | 16,002 | 13% | 0.02 | 15 | \$1,991 | 83% | 0.5 |
| FE-Penelec | Efficient Unit Heating System | Std. Unit Heater | Healthcare | Space Heating | ROB | heater | 16,002 | 13% | 0.02 | 15 | \$1,991 | 83% | 0.5 |
| FE-Penelec | Facility Commissioning | No Facility Commissioning | Healthcare | Space Heating | New | building | 34,004 | 16% | 0.2 | 10 | \$68,581 | 89% | 0.0 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Healthcare | Space Heating | Existing | building | 34,004 | 7.1% | 0.07 | 15 | \$150,834 | 25% | 0.0 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Healthcare | Space Heating | New | building | 34,004 | 7.1% | 0.07 | 15 | \$150,834 | 35% | 0.0 |
| FE-Penelec | Hi Eff HVAC System Design | No HVAC Design | Healthcare | Space Heating | New | building | 34,004 | 8.6% | 0.09 | 10 | \$666,990 | 51% | 0.0 |
| FE-Penelec | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Healthcare | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$76 | 80% | 1.0 |
| FE-Penelec | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Healthcare | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$76 | 80% | 1.0 |
| FE-Penelec | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Healthcare | Space Heating | Existing | building | 34,004 | 2.1% | 0.02 | 10 | \$7,735 | 81% | 0.0 |
| FE-Penelec | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Healthcare | Space Heating | New | building | 34,004 | 2.1% | 0.02 | 10 | \$7,735 | 81% | 0.0 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Healthcare | Space Heating | Existing | building | 34,004 | 3.6% | 0.04 | 11 | \$286 | 49% | 1.6 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Healthcare | Space Heating | New | building | 34,004 | 3.1% | 0.03 | 11 | \$146 | 49% | 2.8 |
| FE-Penelec | Re-Commissioning (Existing Construction) | No Re-Commissioning | Healthcare | Space Heating | Existing | building | 34,004 | 16% | 0.2 | 5 | \$8,847 | 86% | 0.1 |
| FE-Penelec | VFD on Cooling Tower Fan | Motor w/out VFD | Healthcare | Space Heating | Early | motor | 41,404 | 70% | 3.4 | 15 | \$2,843 | 88% | 6.0 |
| FE-Penelec | VFD on Cooling Tower Fan | Motor w/out VFD | Healthcare | Space Heating | New | motor | 40,629 | 72% | 3.3 | 15 | \$2,843 | 88% | 6.0 |
| FE-Penelec | VFD on Cooling Tower Fan | Motor w/out VFD | Healthcare | Space Heating | ROB | motor | 40,629 | 72% | 3.3 | 15 | \$2,843 | 88% | 6.0 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Healthcare | Space Heating | Existing | building | 34,004 | 2.6% | 0.03 | 15 | \$5,624 | 26% | 0.1 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Healthcare | Space Heating | New | building | 34,004 | 0.1% | 0.00 | 15 | \$4,314 | 94% | 0.0 |
| FE-Penelec | Green LED Traffic Light | Green Incandescent Traffic Light | Healthcare | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 0% | 1.2 |
| FE-Penelec | Green LED Traffic Light | Green Incandescent Traffic Light | Healthcare | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| FE-Penelec | Green LED Traffic Light | Green Incandescent Traffic Light | Healthcare | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| FE-Penelec | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Healthcare | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 0% | 3.0 |
| FE-Penelec | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Healthcare | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-Penelec | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Healthcare | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-Penelec | Induction Street Lighting | One 100W HPS Street Light Fixture | Healthcare | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 0% | 0.3 |
| FE-Penelec | Induction Street Lighting | One 100W HPS Street Light Fixture | Healthcare | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.7 |
| FE-Penelec | Induction Street Lighting | One 100W HPS Street Light Fixture | Healthcare | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.7 |
| FE-Penelec | LED Street Lighting | One 100W HPS Street Light | Healthcare | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 0% | 0.2 |
| FE-Penelec | LED Street Lighting | One 100W HPS Street Light | Healthcare | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-Penelec | LED Street Lighting | One 100W HPS Street Light | Healthcare | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-Penelec | Red LED Traffic Light | One Red Incandescent Traffic Light | Healthcare | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 0% | 1.6 |
| FE-Penelec | Red LED Traffic Light | One Red Incandescent Traffic Light | Healthcare | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| FE-Penelec | Red LED Traffic Light | One Red Incandescent Traffic Light | Healthcare | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| FE-Penelec | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Healthcare | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 0% | 0.1 |
| FE-Penelec | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Healthcare | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-Penelec | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Healthcare | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-Penelec | Demand controlled Circulating Systems | Constant circulation system | Healthcare | Water Heating | Existing | building | 1,963 | 20% | 0.2 | 15 | \$356 | 59% | 1.1 |
| FE-Penelec | Demand controlled Circulating Systems | Constant circulation system | Healthcare | Water Heating | New | building | 1,963 | 20% | 0.2 | 15 | \$356 | 59% | 1.1 |
| FE-Penelec | Drainwater Heat Recovery Water Heater | No heat recovery | Healthcare | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.9 |
| FE-Penelec | Drainwater Heat Recovery Water Heater | No heat recovery | Healthcare | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.9 |
| FE-Penelec | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Healthcare | Water Heating | Existing | building | 1,963 | 5.9% | 0.06 | 12 | \$140 | 85% | 0.7 |
| FE-Penelec | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Healthcare | Water Heating | New | building | 1,963 | 5.9% | 0.06 | 12 | \$40 | 85% | 2.4 |
| FE-Penelec | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Healthcare | Water Heating | Early | water heater | 96,871 | 66% | 11.3 | 10 | \$3,562 | 68% | 8.8 |
| FE-Penelec | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Healthcare | Water Heating | Early | water heater | 96,871 | 66% | 11.3 | 10 | \$3,562 | 68% | 8.8 |
| FE-Penelec | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Healthcare | Water Heating | New | water heater | 96,871 | 66% | 11.3 | 10 | \$3,562 | 68% | 8.8 |
| FE-Penelec | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Healthcare | Water Heating | New | water heater | 96,871 | 66% | 11.3 | 10 | \$3,562 | 68% | 8.8 |
| FE-Penelec | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Healthcare | Water Heating | ROB | water heater | 94,180 | 65% | 10.9 | 10 | \$3,562 | 68% | 8.5 |
| FE-Penelec | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Healthcare | Water Heating | ROB | water heater | 94,180 | 65% | 10.9 | 10 | \$3,562 | 68% | 8.5 |
| FE-Penelec | Heat Recovery Unit | Base Water Heating | Healthcare | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.6 |
| FE-Penelec | Heat Recovery Unit | Base Water Heating | Healthcare | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.6 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|--|---|------------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Heat Trap | No Heat Trap | Healthcare | Water Heating | Existing | building | 1,963 | 1.0% | 0.01 | 11 | \$0.4 | 50% | 41.1 |
| FE-Penelec | Heat Trap | No Heat Trap | Healthcare | Water Heating | New | building | 1,963 | 1.0% | 0.01 | 11 | \$0.1 | 50% | 107.2 |
| FE-Penelec | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Healthcare | Water Heating | Early | water heater | 96,871 | 5.9% | 1.0 | 15 | \$921 | 79% | 4.3 |
| FE-Penelec | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Healthcare | Water Heating | Early | water heater | 96,871 | 5.9% | 1.0 | 15 | \$921 | 79% | 4.3 |
| FE-Penelec | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Healthcare | Water Heating | New | water heater | 94,180 | 3.2% | 0.5 | 15 | \$921 | 79% | 2.3 |
| FE-Penelec | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Healthcare | Water Heating | New | water heater | 94,180 | 3.2% | 0.5 | 15 | \$921 | 79% | 2.3 |
| FE-Penelec | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Healthcare | Water Heating | ROB | water heater | 94,180 | 3.2% | 0.5 | 15 | \$921 | 79% | 2.3 |
| FE-Penelec | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Healthcare | Water Heating | ROB | water heater | 94,180 | 3.2% | 0.5 | 15 | \$921 | 79% | 2.3 |
| FE-Penelec | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Healthcare | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$466 | 81% | 39.2 |
| FE-Penelec | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Healthcare | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 20.4 |
| FE-Penelec | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Healthcare | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 20.4 |
| FE-Penelec | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Healthcare | Water Heating | Existing | building | 1,963 | 3.1% | 0.03 | 13 | \$9.2 | 68% | 5.9 |
| FE-Penelec | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Healthcare | Water Heating | New | building | 1,963 | 3.1% | 0.03 | 13 | \$9.2 | 0% | 5.9 |
| FE-Penelec | Hot Water Circulation Pump Time-Clock | Constant circulation system | Healthcare | Water Heating | Existing | building | 1,963 | 5.3% | 0.05 | 10 | \$7.9 | 72% | 9.6 |
| FE-Penelec | Hot Water Circulation Pump Time-Clock | Constant circulation system | Healthcare | Water Heating | New | building | 1,963 | 5.3% | 0.05 | 10 | \$7.9 | 72% | 9.6 |
| FE-Penelec | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Healthcare | Water Heating | Existing | building | 1,747 | 0.1% | 0.00 | 7 | \$22 | 78% | 0.0 |
| FE-Penelec | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Healthcare | Water Heating | New | building | 1,747 | 0.1% | 0.00 | 7 | \$0.5 | 78% | 2.2 |
| FE-Penelec | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Healthcare | Water Heating | Existing | building | 1,963 | 9.7% | 0.10 | 5 | \$300 | 20% | 0.3 |
| FE-Penelec | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Healthcare | Water Heating | New | building | 1,963 | 6.4% | 0.06 | 5 | \$194 | 20% | 0.3 |
| FE-Penelec | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Healthcare | Water Heating | Existing | building | 1,963 | 6.5% | 0.07 | 9 | \$250 | 9% | 0.3 |
| FE-Penelec | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Healthcare | Water Heating | New | building | 1,963 | 6.5% | 0.07 | 9 | \$60 | 9% | 1.4 |
| FE-Penelec | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Healthcare | Water Heating | Early | water heater | 96,871 | 52% | 4.1 | 15 | \$18,666 | 32% | 1.6 |
| FE-Penelec | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Healthcare | Water Heating | New | water heater | 94,180 | 51% | 3.9 | 15 | \$18,666 | 32% | 1.6 |
| FE-Penelec | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Healthcare | Water Heating | ROB | water heater | 94,180 | 51% | 3.9 | 15 | \$18,666 | 32% | 1.6 |
| FE-Penelec | Ultrasonic Faucet Control | Manual Faucet Control | Healthcare | Water Heating | Existing | building | 1,963 | 3.0% | 0.03 | 10 | \$339 | 77% | 0.1 |
| FE-Penelec | Ultrasonic Faucet Control | Manual Faucet Control | Healthcare | Water Heating | New | building | 1,963 | 3.1% | 0.03 | 10 | \$339 | 77% | 0.1 |
| FE-Penelec | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Healthcare | Water Heating | Existing | building | 1,963 | 2.2% | 0.02 | 4 | \$28 | 83% | 0.5 |
| FE-Penelec | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Healthcare | Water Heating | New | building | 1,963 | 2.3% | 0.02 | 4 | \$28 | 83% | 0.6 |
| FE-Penelec | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Lodging | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.1 |
| FE-Penelec | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Lodging | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.1 |
| FE-Penelec | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Lodging | Cooking | Early | steamer | 51 | 46% | 0.00 | 12 | \$5,053 | 81% | 0.0 |
| FE-Penelec | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Lodging | Cooking | New | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-Penelec | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Lodging | Cooking | ROB | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-Penelec | Electric combination oven (Energy Star) | Standard Oven | Lodging | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.9 |
| FE-Penelec | Electric combination oven (Energy Star) | Standard Oven | Lodging | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.9 |
| FE-Penelec | Electric Convection Oven | Conventional convection oven w/ 65% efficiency | Lodging | Cooking | Early | oven | 8,641 | 37% | 0.6 | 12 | \$4,119 | 81% | 0.4 |
| FE-Penelec | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Lodging | Cooking | New | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.7 |
| FE-Penelec | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Lodging | Cooking | ROB | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.7 |
| FE-Penelec | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Lodging | Cooking | Early | fryer | 6,105 | 23% | 0.3 | 12 | \$9,241 | 86% | 0.1 |
| FE-Penelec | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Lodging | Cooking | New | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| FE-Penelec | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Lodging | Cooking | ROB | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| FE-Penelec | High Efficiency Griddle (ENERGY STAR) | Efficiency code minimum griddle (70% eff) | Lodging | Cooking | Early | griddle | 11,317 | 65% | 1.4 | 12 | \$4,977 | 86% | 0.8 |
| FE-Penelec | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Lodging | Cooking | New | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.2 |
| FE-Penelec | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Lodging | Cooking | ROB | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.2 |
| FE-Penelec | High Efficiency Induction Cooking | Standard Cooking | Lodging | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-Penelec | High Efficiency Induction Cooking | Standard Cooking | Lodging | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Lodging | Cooling Central | Existing | building | 5,160 | 7.0% | 0.07 | 6 | \$17,952 | 82% | 0.0 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Lodging | Cooling Central | New | building | 5,160 | 7.0% | 0.07 | 6 | \$17,952 | 82% | 0.0 |
| FE-Penelec | Adding window shade film | No shade film | Lodging | Cooling Central | Existing | building | 5,160 | 1.3% | 0.4 | 10 | \$63 | 12% | 4.6 |
| FE-Penelec | Adding window shade film | No shade film | Lodging | Cooling Central | New | building | 5,160 | 1.3% | 0.4 | 10 | \$63 | 13% | 4.6 |
| FE-Penelec | Adding window shade screen | No shade screen | Lodging | Cooling Central | Existing | building | 5,160 | 1.1% | 0.01 | 10 | \$24 | 13% | 1.1 |
| FE-Penelec | Adding window shade screen | No shade screen | Lodging | Cooling Central | New | building | 5,160 | 1.1% | 0.01 | 10 | \$24 | 13% | 1.1 |
| FE-Penelec | Automated control system | Manual Controls | Lodging | Cooling Central | Existing | building | 5,160 | 17% | 0.2 | 15 | \$5,649 | 51% | 0.1 |
| FE-Penelec | Automated control system | Manual Controls | Lodging | Cooling Central | New | building | 5,160 | 17% | 0.2 | 15 | \$5,649 | 94% | 0.1 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Lodging | Cooling Central | Existing | building | 5,160 | 3.3% | 0.03 | 15 | \$23,552 | 71% | 0.0 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Lodging | Cooling Central | New | building | 5,160 | 1.1% | 0.01 | 15 | \$22,387 | 94% | 0.0 |
| FE-Penelec | Chiller Tuneup/Diagnostics | No tuneup | Lodging | Cooling Central | Existing | building | 5,160 | 8.0% | 0.08 | 10 | \$13,175 | 59% | 0.0 |
| FE-Penelec | Chiller Tuneup/Diagnostics | No tuneup | Lodging | Cooling Central | New | building | 5,160 | 8.0% | 0.08 | 10 | \$13,175 | 59% | 0.0 |
| FE-Penelec | Commercial energy recovery ventilation systems | No Commercial Recovery System | Lodging | Cooling Central | Existing | building | 5,160 | 16% | 0.2 | 14 | \$4,662 | 71% | 0.1 |
| FE-Penelec | Cooling Tower Optimization | No Cooling Tower Optimization | Lodging | Cooling Central | Existing | building | 5,160 | 20% | 0.2 | 10 | \$32 | 69% | 16.3 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Lodging | Cooling Central | Existing | building | 5,160 | 1.4% | 0.04 | 15 | \$41 | 20% | 1.8 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Lodging | Cooling Central | New | building | 5,160 | 1.4% | 0.04 | 15 | \$41 | 10% | 1.8 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|--|--|---------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Facility Commissioning | No Facility Commissioning | Lodging | Cooling Central | New | building | 5,160 | 16% | 0.2 | 10 | \$2,358 | 89% | 0.2 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Lodging | Cooling Central | Existing | building | 5,160 | 7.0% | 0.07 | 15 | \$22,887 | 25% | 0.0 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Lodging | Cooling Central | New | building | 5,160 | 7.0% | 0.07 | 15 | \$22,887 | 35% | 0.0 |
| FE-Penelec | Hi Eff HVAC System Design | No HVAC Design | Lodging | Cooling Central | New | building | 5,160 | 7.3% | 0.07 | 10 | \$67,488 | 51% | 0.0 |
| FE-Penelec | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Lodging | Cooling Central | Early | ton | 12,889 | 24% | 1.1 | 15 | \$108,550 | 88% | 0.0 |
| FE-Penelec | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Lodging | Cooling Central | New | ton | 10,536 | 6.7% | 0.2 | 15 | \$12,927 | 88% | 0.0 |
| FE-Penelec | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Lodging | Cooling Central | ROB | ton | 10,536 | 6.7% | 0.2 | 15 | \$12,927 | 88% | 0.0 |
| FE-Penelec | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Lodging | Cooling Central | Early | ton | 19,259 | 23% | 1.6 | 15 | \$140,105 | 88% | 0.0 |
| FE-Penelec | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Lodging | Cooling Central | New | ton | 15,494 | 4.9% | 0.3 | 15 | \$9,336 | 88% | 0.1 |
| FE-Penelec | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Lodging | Cooling Central | ROB | ton | 15,494 | 4.9% | 0.3 | 15 | \$9,336 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Lodging | Cooling Central | Early | ton | 157,655 | 26% | 14.2 | 15 | \$105,354 | 88% | 0.3 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Lodging | Cooling Central | New | ton | 137,363 | 15% | 7.1 | 15 | \$30,530 | 88% | 0.6 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Lodging | Cooling Central | ROB | ton | 137,363 | 15% | 7.1 | 15 | \$30,530 | 88% | 0.6 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Lodging | Cooling Central | Early | ton | 236,125 | 23% | 18.7 | 15 | \$154,107 | 88% | 0.3 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Lodging | Cooling Central | New | ton | 216,910 | 16% | 12.1 | 15 | \$27,646 | 88% | 1.1 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Lodging | Cooling Central | ROB | ton | 236,125 | 23% | 18.7 | 15 | \$27,646 | 88% | 1.7 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Lodging | Cooling Central | Early | ton | 392,159 | 23% | 30.8 | 15 | \$302,924 | 88% | 0.3 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Lodging | Cooling Central | New | ton | 354,932 | 14% | 17.8 | 15 | \$115,432 | 88% | 0.4 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Lodging | Cooling Central | ROB | ton | 392,159 | 23% | 30.8 | 15 | \$115,432 | 88% | 0.7 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Lodging | Cooling Central | Early | ton | 470,590 | 23% | 36.9 | 15 | \$350,154 | 88% | 0.3 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Lodging | Cooling Central | New | ton | 425,918 | 14% | 21.4 | 15 | \$120,406 | 88% | 0.4 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Lodging | Cooling Central | ROB | ton | 470,590 | 23% | 36.9 | 15 | \$120,406 | 88% | 0.8 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Lodging | Cooling Central | Early | ton | 104,310 | 29% | 10.6 | 15 | \$83,632 | 88% | 0.3 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Lodging | Cooling Central | New | ton | 80,996 | 8.9% | 2.5 | 15 | \$40,211 | 88% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Lodging | Cooling Central | ROB | ton | 104,310 | 29% | 10.6 | 15 | \$40,211 | 88% | 0.7 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Lodging | Cooling Central | Early | ton | 179,231 | 35% | 21.7 | 15 | \$132,173 | 88% | 0.4 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Lodging | Cooling Central | New | ton | 133,676 | 13% | 5.8 | 15 | \$39,556 | 88% | 0.4 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Lodging | Cooling Central | ROB | ton | 133,676 | 13% | 5.8 | 15 | \$39,556 | 88% | 0.4 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Lodging | Cooling Central | Early | ton | 299,241 | 39% | 40.7 | 15 | \$187,029 | 88% | 0.5 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Lodging | Cooling Central | New | ton | 213,354 | 15% | 10.8 | 15 | \$33,554 | 88% | 0.8 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Lodging | Cooling Central | ROB | ton | 299,241 | 39% | 40.7 | 15 | \$33,554 | 88% | 3.0 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Lodging | Cooling Central | Early | ton | 52,363 | 30% | 5.4 | 15 | \$32,398 | 88% | 0.4 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Lodging | Cooling Central | New | ton | 41,486 | 11% | 1.6 | 15 | \$7,188 | 88% | 0.6 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Lodging | Cooling Central | ROB | ton | 52,363 | 30% | 5.4 | 15 | \$7,188 | 88% | 1.9 |
| FE-Penelec | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Lodging | Cooling Central | Existing | building | 5,160 | 3.5% | 0.04 | 10 | \$2,396 | 81% | 0.0 |
| FE-Penelec | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Lodging | Cooling Central | New | building | 5,160 | 3.5% | 0.04 | 10 | \$2,396 | 81% | 0.0 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Lodging | Cooling Central | Existing | building | 5,160 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.2 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Lodging | Cooling Central | New | building | 5,160 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.3 |
| FE-Penelec | Re-Commissioning (Existing Construction) | No Re-Commissioning | Lodging | Cooling Central | Existing | building | 5,160 | 16% | 0.2 | 5 | \$12,530 | 86% | 0.0 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Lodging | Cooling Central | Existing | building | 5,160 | 8.0% | 0.08 | 15 | \$6,019 | 26% | 0.0 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Lodging | Cooling Central | New | building | 5,160 | 0.2% | 0.00 | 15 | \$4,617 | 94% | 0.0 |
| FE-Penelec | <65k BTU/hr 14 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Lodging | Cooling Unitary | Early | ton | 5,296 | 16% | 0.4 | 15 | \$1,545 | 29% | 0.5 |
| FE-Penelec | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Lodging | Cooling Unitary | New | ton | 4,796 | 7.1% | 0.2 | 15 | \$339 | 29% | 1.0 |
| FE-Penelec | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Lodging | Cooling Unitary | ROB | ton | 4,796 | 7.1% | 0.2 | 15 | \$339 | 29% | 1.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|--|---------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | <65k BTU/hr 15 SEER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Lodging | Cooling Unitary | Early | ton | 5,296 | 22% | 0.5 | 15 | \$1,821 | 30% | 0.6 |
| FE-Penelec | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Lodging | Cooling Unitary | New | ton | 4,796 | 13% | 0.3 | 15 | \$714 | 30% | 0.9 |
| FE-Penelec | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Lodging | Cooling Unitary | ROB | ton | 4,796 | 13% | 0.3 | 15 | \$714 | 30% | 0.9 |
| FE-Penelec | <65k BTU/hr 16 SEER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Lodging | Cooling Unitary | Early | ton | 5,296 | 26% | 0.6 | 15 | \$2,098 | 31% | 0.6 |
| FE-Penelec | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Lodging | Cooling Unitary | New | ton | 4,796 | 19% | 0.4 | 15 | \$1,089 | 31% | 0.8 |
| FE-Penelec | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Lodging | Cooling Unitary | ROB | ton | 4,796 | 19% | 0.4 | 15 | \$1,089 | 31% | 0.8 |
| FE-Penelec | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Lodging | Cooling Unitary | Early | ton | 133,985 | 3.7% | 2.2 | 15 | \$68,066 | 56% | 0.1 |
| FE-Penelec | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Lodging | Cooling Unitary | New | ton | 135,703 | 4.9% | 3.0 | 15 | \$6,231 | 56% | 1.0 |
| FE-Penelec | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Lodging | Cooling Unitary | ROB | ton | 135,703 | 4.9% | 3.0 | 15 | \$6,231 | 56% | 1.0 |
| FE-Penelec | 135-240k min 12 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Lodging | Cooling Unitary | Early | ton | 32,967 | 18% | 2.7 | 15 | \$18,135 | 79% | 0.3 |
| FE-Penelec | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Lodging | Cooling Unitary | New | ton | 29,989 | 10.0% | 1.3 | 15 | \$1,948 | 79% | 1.5 |
| FE-Penelec | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Lodging | Cooling Unitary | ROB | ton | 29,989 | 10.0% | 1.3 | 15 | \$1,948 | 79% | 1.5 |
| FE-Penelec | 240k-760k min 11 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Lodging | Cooling Unitary | Early | ton | 88,148 | 9.0% | 3.5 | 15 | \$44,809 | 66% | 0.2 |
| FE-Penelec | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Lodging | Cooling Unitary | New | ton | 88,367 | 9.3% | 3.6 | 15 | \$4,813 | 66% | 1.6 |
| FE-Penelec | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Lodging | Cooling Unitary | ROB | ton | 88,367 | 9.3% | 3.6 | 15 | \$4,813 | 66% | 1.6 |
| FE-Penelec | 65k-135k BTU/hr 12 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Lodging | Cooling Unitary | Early | ton | 19,434 | 17% | 1.5 | 15 | \$10,946 | 86% | 0.3 |
| FE-Penelec | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Lodging | Cooling Unitary | New | ton | 17,320 | 6.7% | 0.5 | 15 | \$1,392 | 86% | 0.8 |
| FE-Penelec | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Lodging | Cooling Unitary | ROB | ton | 17,320 | 6.7% | 0.5 | 15 | \$1,392 | 86% | 0.8 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Lodging | Cooling Unitary | Existing | building | 61,547 | 7.1% | 0.07 | 6 | \$17,952 | 82% | 0.1 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Lodging | Cooling Unitary | New | building | 61,547 | 7.1% | 0.07 | 6 | \$17,952 | 82% | 0.1 |
| FE-Penelec | Adding window shade film | No shade film | Lodging | Cooling Unitary | Existing | building | 61,547 | 1.3% | 0.4 | 10 | \$749 | 12% | 0.7 |
| FE-Penelec | Adding window shade film | No shade film | Lodging | Cooling Unitary | New | building | 61,547 | 1.3% | 0.4 | 10 | \$749 | 13% | 0.7 |
| FE-Penelec | Adding window shade screen | No shade screen | Lodging | Cooling Unitary | Existing | building | 61,547 | 1.1% | 0.01 | 10 | \$290 | 12% | 0.9 |
| FE-Penelec | Adding window shade screen | No shade screen | Lodging | Cooling Unitary | New | building | 61,547 | 1.1% | 0.01 | 10 | \$290 | 13% | 0.9 |
| FE-Penelec | Automated control system | Manual Controls | Lodging | Cooling Unitary | Existing | building | 61,547 | 17% | 0.2 | 15 | \$67,380 | 51% | 0.1 |
| FE-Penelec | Automated control system | Manual Controls | Lodging | Cooling Unitary | New | building | 61,547 | 17% | 0.2 | 15 | \$67,380 | 94% | 0.1 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Lodging | Cooling Unitary | Existing | building | 61,547 | 3.4% | 0.03 | 15 | \$23,552 | 71% | 0.0 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Lodging | Cooling Unitary | New | building | 61,547 | 1.1% | 0.01 | 15 | \$22,387 | 94% | 0.0 |
| FE-Penelec | Commercial energy recovery ventilation systems | No Commercial Recovery System | Lodging | Cooling Unitary | Existing | building | 61,547 | 16% | 0.2 | 14 | \$55,617 | 71% | 0.1 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Lodging | Cooling Unitary | Existing | building | 61,547 | 1.4% | 0.04 | 15 | \$489 | 20% | 1.0 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Lodging | Cooling Unitary | New | building | 61,547 | 1.4% | 0.04 | 15 | \$489 | 10% | 1.0 |
| FE-Penelec | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Lodging | Cooling Unitary | Existing | building | 33,851 | 13% | 0.1 | 1 | \$324 | 73% | 0.7 |
| FE-Penelec | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Lodging | Cooling Unitary | New | building | 33,851 | 13% | 0.1 | 1 | \$324 | 73% | 0.7 |
| FE-Penelec | ECM Motors for split systems | Std Shaded Pole Motor | Lodging | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.9 |
| FE-Penelec | ECM Motors for split systems | Std Shaded Pole Motor | Lodging | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.9 |
| FE-Penelec | Facility Commissioning | No Facility Commissioning | Lodging | Cooling Unitary | New | building | 61,547 | 16% | 0.2 | 10 | \$999 | 89% | 3.8 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Lodging | Cooling Unitary | Existing | building | 61,547 | 7.1% | 0.07 | 15 | \$273,011 | 25% | 0.0 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Lodging | Cooling Unitary | New | building | 61,547 | 7.1% | 0.07 | 15 | \$273,011 | 35% | 0.0 |
| FE-Penelec | Hi Eff HVAC System Design | No HVAC Design | Lodging | Cooling Unitary | New | building | 61,547 | 7.3% | 0.07 | 10 | \$6,887 | 51% | 0.3 |
| FE-Penelec | Hotel Occupancy Sensor | HVAC system w/out Occupancy Sensors | Lodging | Cooling Unitary | Existing | building | 61,547 | 3.5% | 0.04 | 15 | \$11,644 | 89% | 0.1 |
| FE-Penelec | Hotel Occupancy Sensor | HVAC system w/out Occupancy Sensors | Lodging | Cooling Unitary | New | building | 61,547 | 3.5% | 0.04 | 15 | \$11,644 | 94% | 0.1 |
| FE-Penelec | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Lodging | Cooling Unitary | Existing | building | 61,547 | 5.0% | 0.05 | 5 | \$225 | 59% | 3.0 |
| FE-Penelec | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Lodging | Cooling Unitary | Existing | building | 61,547 | 0.2% | 0.04 | 5 | \$225 | 51% | 0.2 |
| FE-Penelec | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Lodging | Cooling Unitary | New | building | 61,547 | 0.2% | 0.04 | 5 | \$135 | 51% | 0.3 |
| FE-Penelec | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Lodging | Cooling Unitary | Existing | building | 61,547 | 3.5% | 0.04 | 10 | \$2,575 | 86% | 0.3 |
| FE-Penelec | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Lodging | Cooling Unitary | New | building | 61,547 | 3.5% | 0.04 | 10 | \$2,575 | 86% | 0.3 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) | Lodging | Cooling Unitary | Existing | building | 61,547 | 2.0% | 0.02 | 11 | \$286 | 49% | 1.8 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Lodging | Cooling Unitary | New | building | 61,547 | 1.7% | 0.02 | 11 | \$146 | 49% | 3.0 |
| FE-Penelec | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Lodging | Cooling Unitary | Early | unit | 426 | 19% | 0.04 | 15 | \$849 | 85% | 0.1 |
| FE-Penelec | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Lodging | Cooling Unitary | New | unit | 431 | 20% | 0.05 | 15 | \$356 | 85% | 0.3 |
| FE-Penelec | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Lodging | Cooling Unitary | ROB | unit | 431 | 20% | 0.05 | 15 | \$356 | 85% | 0.3 |
| FE-Penelec | Re-Commissioning (Existing Construction) | No Re-Commissioning | Lodging | Cooling Unitary | Existing | building | 61,547 | 16% | 0.2 | 5 | \$12,530 | 86% | 0.2 |
| FE-Penelec | Room AC (w/ louvered sides) | Existing efficiency Room AC in Pennsylvania (2000 Federal Standards) | Lodging | Cooling Unitary | Early | ton | 2,009 | 13% | 0.09 | 9 | \$348 | 82% | 0.4 |
| FE-Penelec | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Lodging | Cooling Unitary | New | ton | 1,821 | 4.5% | 0.03 | 9 | \$17 | 82% | 2.7 |
| FE-Penelec | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Lodging | Cooling Unitary | ROB | ton | 1,821 | 4.5% | 0.03 | 9 | \$17 | 82% | 2.7 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Lodging | Cooling Unitary | Existing | building | 61,547 | 8.2% | 0.08 | 15 | \$6,019 | 26% | 0.5 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Lodging | Cooling Unitary | New | building | 61,547 | 0.2% | 0.00 | 15 | \$4,617 | 94% | 0.0 |
| FE-Penelec | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Lodging | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 1.1 |
| FE-Penelec | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Lodging | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.4 |
| FE-Penelec | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Lodging | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.4 |
| FE-Penelec | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Lodging | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 0% | 0.2 |
| FE-Penelec | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Lodging | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|--|---|---------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Lodging | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-Penelec | LED exterior lighting | 250 Watt Incandescent | Lodging | Ext. Lighting | ROB | measure | 529 | 83% | 0.07 | 15 | \$104 | 89% | 2.9 |
| FE-Penelec | LED exterior lighting | 250 Watt Incandescent | Lodging | Ext. Lighting | ROB | measure | 529 | 83% | 0.07 | 15 | \$104 | 89% | 2.9 |
| FE-Penelec | LED exterior lighting | 250 Watt Incandescent | Lodging | Ext. Lighting | ROB | measure | 529 | 83% | 0.07 | 15 | \$104 | 89% | 2.9 |
| FE-Penelec | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Lodging | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 75% | 0.3 |
| FE-Penelec | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Lodging | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 75% | 0.2 |
| FE-Penelec | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Lodging | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.8 |
| FE-Penelec | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Lodging | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.1 |
| FE-Penelec | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Lodging | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.8 |
| FE-Penelec | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Lodging | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.1 |
| FE-Penelec | Photocell Controls (Outdoor) | Lighting w/ No Controls | Lodging | Ext. Lighting | Existing | building | 500 | 28% | 0.3 | 8 | \$4,117 | 88% | 0.1 |
| FE-Penelec | Photocell Controls (Outdoor) | Lighting w/ No Controls | Lodging | Ext. Lighting | New | building | 500 | 28% | 0.3 | 8 | \$4,117 | 0% | 0.1 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Lodging | Heat Pump | Existing | building | 5,554 | 6.9% | 0.07 | 6 | \$17,952 | 82% | 0.0 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Lodging | Heat Pump | New | building | 5,554 | 6.9% | 0.07 | 6 | \$17,952 | 82% | 0.0 |
| FE-Penelec | Adding window shade film | No shade film | Lodging | Heat Pump | Existing | building | 5,554 | 3.9% | 0.4 | 10 | \$68 | 12% | 5.0 |
| FE-Penelec | Adding window shade film | No shade film | Lodging | Heat Pump | New | building | 5,554 | 3.9% | 0.4 | 10 | \$68 | 12% | 5.0 |
| FE-Penelec | Adding window shade screen | No shade screen | Lodging | Heat Pump | Existing | building | 5,554 | 0.3% | 0.01 | 10 | \$8.7 | 12% | 1.6 |
| FE-Penelec | Adding window shade screen | No shade screen | Lodging | Heat Pump | New | building | 5,554 | 0.3% | 0.01 | 10 | \$8.7 | 12% | 1.6 |
| FE-Penelec | Automated control system | Manual Controls | Lodging | Heat Pump | Existing | building | 5,554 | 17% | 0.2 | 15 | \$6,080 | 51% | 0.1 |
| FE-Penelec | Automated control system | Manual Controls | Lodging | Heat Pump | New | building | 5,554 | 17% | 0.2 | 15 | \$6,080 | 94% | 0.1 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Lodging | Heat Pump | Existing | building | 5,554 | 3.3% | 0.03 | 15 | \$23,552 | 71% | 0.0 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Lodging | Heat Pump | New | building | 5,554 | 1.1% | 0.01 | 15 | \$22,387 | 94% | 0.0 |
| FE-Penelec | Commercial energy recovery ventilation systems | No Commercial Recovery System | Lodging | Heat Pump | Existing | building | 5,554 | 16% | 0.2 | 14 | \$342,100 | 71% | 0.0 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Lodging | Heat Pump | Existing | building | 5,554 | 4.0% | 0.04 | 15 | \$44 | 12% | 3.3 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Lodging | Heat Pump | New | building | 5,554 | 4.0% | 0.04 | 15 | \$44 | 6% | 3.3 |
| FE-Penelec | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Lodging | Heat Pump | Early | heat pump | 4,660 | 12% | 0.05 | 15 | \$4,070 | 83% | 0.1 |
| FE-Penelec | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Lodging | Heat Pump | New | heat pump | 4,475 | 7.9% | 0.03 | 15 | \$1,097 | 83% | 0.2 |
| FE-Penelec | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Lodging | Heat Pump | ROB | heat pump | 4,475 | 7.9% | 0.03 | 15 | \$1,097 | 83% | 0.2 |
| FE-Penelec | Facility Commissioning | No Facility Commissioning | Lodging | Heat Pump | New | building | 5,554 | 16% | 0.2 | 10 | \$2,358 | 89% | 0.2 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Lodging | Heat Pump | Existing | building | 5,554 | 7.0% | 0.07 | 15 | \$24,635 | 25% | 0.0 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Lodging | Heat Pump | New | building | 5,554 | 7.0% | 0.07 | 15 | \$24,635 | 35% | 0.0 |
| FE-Penelec | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Lodging | Heat Pump | Early | heat pump | 50,238 | 14% | 0.6 | 15 | \$91,117 | 19% | 0.0 |
| FE-Penelec | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Lodging | Heat Pump | New | heat pump | 48,787 | 12% | 0.5 | 15 | \$33,927 | 19% | 0.1 |
| FE-Penelec | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Lodging | Heat Pump | ROB | heat pump | 48,787 | 12% | 0.5 | 15 | \$33,927 | 19% | 0.1 |
| FE-Penelec | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Lodging | Heat Pump | Early | heat pump | 50,238 | 14% | 0.6 | 15 | \$58,356 | 19% | 0.1 |
| FE-Penelec | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Lodging | Heat Pump | New | heat pump | 48,787 | 12% | 0.5 | 15 | \$1,167 | 19% | 2.8 |
| FE-Penelec | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Lodging | Heat Pump | ROB | heat pump | 48,787 | 12% | 0.5 | 15 | \$1,167 | 19% | 2.8 |
| FE-Penelec | Hi Eff HVAC System Design | No HVAC Design | Lodging | Heat Pump | New | building | 5,554 | 7.3% | 0.07 | 10 | \$67,488 | 51% | 0.0 |
| FE-Penelec | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Lodging | Heat Pump | Early | heat pump | 13,204 | 16% | 0.2 | 12 | \$4,298 | 81% | 0.2 |
| FE-Penelec | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Lodging | Heat Pump | New | heat pump | 12,706 | 12% | 0.1 | 12 | \$852 | 81% | 0.9 |
| FE-Penelec | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Lodging | Heat Pump | ROB | heat pump | 12,706 | 12% | 0.1 | 12 | \$852 | 81% | 0.9 |
| FE-Penelec | Hotel Occupancy Sensor | HVAC system w/out Occupancy Sensors | Lodging | Heat Pump | Existing | building | 5,554 | 3.5% | 0.04 | 15 | \$11,644 | 89% | 0.0 |
| FE-Penelec | Hotel Occupancy Sensor | HVAC system w/out Occupancy Sensors | Lodging | Heat Pump | New | building | 5,554 | 3.5% | 0.04 | 15 | \$11,644 | 94% | 0.0 |
| FE-Penelec | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Lodging | Heat Pump | Existing | building | 5,554 | 5.0% | 0.02 | 5 | \$90 | 51% | 0.7 |
| FE-Penelec | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Lodging | Heat Pump | New | building | 5,554 | 5.0% | 0.02 | 5 | \$90 | 51% | 0.7 |
| FE-Penelec | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Lodging | Heat Pump | Existing | building | 5,554 | 3.5% | 0.04 | 10 | \$2,292 | 81% | 0.0 |
| FE-Penelec | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Lodging | Heat Pump | New | building | 5,554 | 3.5% | 0.04 | 10 | \$2,292 | 81% | 0.0 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Lodging | Heat Pump | Existing | building | 5,554 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.2 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Lodging | Heat Pump | New | building | 5,554 | 2.1% | 0.02 | 11 | \$146 | 49% | 0.4 |
| FE-Penelec | Re-Commissioning (Existing Construction) | No Re-Commissioning | Lodging | Heat Pump | Existing | building | 5,554 | 16% | 0.2 | 5 | \$12,530 | 86% | 0.0 |
| FE-Penelec | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Lodging | Heat Pump | New | measure | 763,332 | 2.0% | 1.7 | 13 | \$96,095 | 43% | 0.1 |
| FE-Penelec | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Lodging | Heat Pump | ROB | measure | 763,332 | 2.0% | 1.7 | 13 | \$96,095 | 43% | 0.1 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Lodging | Heat Pump | Existing | building | 5,554 | 8.0% | 0.08 | 15 | \$6,019 | 26% | 0.0 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Lodging | Heat Pump | New | building | 5,554 | 0.2% | 0.00 | 15 | \$4,617 | 94% | 0.0 |
| FE-Penelec | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Lodging | Heat Pump | Early | heat pump | 21,581 | 37% | 0.7 | 15 | \$35,347 | 28% | 0.1 |
| FE-Penelec | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Lodging | Heat Pump | New | heat pump | 20,757 | 35% | 0.6 | 15 | \$15,739 | 28% | 0.3 |
| FE-Penelec | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Lodging | Heat Pump | ROB | heat pump | 20,757 | 35% | 0.6 | 15 | \$15,739 | 28% | 0.3 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Lodging | High Bay Lighting | Early | Fixture | 754 | 9.6% | 0.01 | 13 | \$850 | 39% | 0.1 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Lodging | High Bay Lighting | Early | Fixture | 753 | 9.5% | 0.01 | 13 | \$850 | 28% | 0.0 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Lodging | High Bay Lighting | Early | Fixture | 1,162 | 41% | 0.07 | 13 | \$850 | 36% | 0.3 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Lodging | High Bay Lighting | New | Fixture | 573 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Lodging | High Bay Lighting | New | Fixture | 533 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Lodging | High Bay Lighting | New | Fixture | 883 | 41% | 0.05 | 13 | \$397 | 36% | 0.5 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|---|---------|-------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Lodging | High Bay Lighting | ROB | Fixture | 754 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Lodging | High Bay Lighting | ROB | Fixture | 701 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Lodging | High Bay Lighting | ROB | Fixture | 1,162 | 41% | 0.07 | 13 | \$397 | 36% | 0.7 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Lodging | High Bay Lighting | Early | Fixture | 1,463 | 19% | 0.04 | 13 | \$851 | 38% | 0.2 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Lodging | High Bay Lighting | Early | Fixture | 1,481 | 20% | 0.04 | 13 | \$851 | 38% | 0.2 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | Early | Fixture | 4,309 | 73% | 0.5 | 13 | \$851 | 38% | 2.2 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Lodging | High Bay Lighting | New | Fixture | 1,112 | 19% | 0.03 | 13 | \$372 | 38% | 0.3 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | New | Fixture | 3,275 | 73% | 0.4 | 13 | \$383 | 38% | 3.7 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Lodging | High Bay Lighting | ROB | Fixture | 1,463 | 19% | 0.04 | 13 | \$372 | 38% | 0.4 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | ROB | Fixture | 4,309 | 73% | 0.5 | 13 | \$383 | 38% | 4.8 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Lodging | High Bay Lighting | Early | Fixture | 1,463 | 25% | 0.05 | 13 | \$554 | 29% | 0.4 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Lodging | High Bay Lighting | Early | Fixture | 1,436 | 23% | 0.05 | 13 | \$554 | 28% | 0.4 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | Early | Fixture | 4,309 | 74% | 0.5 | 13 | \$554 | 36% | 3.4 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Lodging | High Bay Lighting | New | Fixture | 1,112 | 25% | 0.04 | 13 | \$75 | 29% | 2.2 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | New | Fixture | 3,275 | 74% | 0.4 | 13 | \$86 | 36% | 16.8 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Lodging | High Bay Lighting | ROB | Fixture | 1,463 | 25% | 0.05 | 13 | \$75 | 29% | 2.8 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | ROB | Fixture | 4,309 | 74% | 0.5 | 13 | \$86 | 36% | 22.1 |
| FE-Penelec | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Lodging | High Bay Lighting | Early | Fixture | 381 | 0.2% | 0.00 | 13 | \$835 | 38% | 0.0 |
| FE-Penelec | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Lodging | High Bay Lighting | Early | Fixture | 822 | 54% | 0.07 | 13 | \$835 | 38% | 0.3 |
| FE-Penelec | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Lodging | High Bay Lighting | New | Fixture | 625 | 54% | 0.05 | 13 | \$382 | 38% | 0.5 |
| FE-Penelec | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Lodging | High Bay Lighting | ROB | Fixture | 822 | 54% | 0.07 | 13 | \$382 | 38% | 0.7 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Lodging | High Bay Lighting | Early | Fixture | 1,864 | 18% | 0.05 | 13 | \$487 | 25% | 0.4 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Lodging | High Bay Lighting | Early | Fixture | 1,949 | 22% | 0.06 | 13 | \$487 | 28% | 0.5 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | Early | Fixture | 4,309 | 65% | 0.4 | 13 | \$487 | 36% | 3.4 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Lodging | High Bay Lighting | New | Fixture | 1,417 | 18% | 0.04 | 13 | \$16 | 25% | 9.4 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | New | Fixture | 3,275 | 65% | 0.3 | 13 | \$18 | 36% | 67.8 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Lodging | High Bay Lighting | ROB | Fixture | 1,864 | 18% | 0.05 | 13 | \$16 | 25% | 12.3 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | ROB | Fixture | 4,309 | 65% | 0.4 | 13 | \$18 | 36% | 89.3 |
| FE-Penelec | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Lodging | High Bay Lighting | Early | Fixture | 1,864 | 1.5% | 0.00 | 13 | \$557 | 19% | 0.0 |
| FE-Penelec | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Lodging | High Bay Lighting | Early | Fixture | 1,919 | 4.3% | 0.01 | 13 | \$557 | 19% | 0.1 |
| FE-Penelec | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | Early | Fixture | 4,309 | 57% | 0.4 | 13 | \$557 | 19% | 2.6 |
| FE-Penelec | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Lodging | High Bay Lighting | New | Fixture | 1,417 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| FE-Penelec | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | New | Fixture | 3,275 | 57% | 0.3 | 13 | \$88 | 19% | 12.6 |
| FE-Penelec | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Lodging | High Bay Lighting | ROB | Fixture | 1,864 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.2 |
| FE-Penelec | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | ROB | Fixture | 4,309 | 57% | 0.4 | 13 | \$88 | 19% | 16.5 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Lodging | High Bay Lighting | Early | Fixture | 791 | 29% | 0.02 | 13 | \$492 | 71% | 0.3 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Lodging | High Bay Lighting | Early | Fixture | 662 | 15% | 0.01 | 13 | \$492 | 95% | 0.1 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Lodging | High Bay Lighting | Early | Fixture | 983 | 43% | 0.04 | 13 | \$492 | 95% | 0.5 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Lodging | High Bay Lighting | Early | Fixture | 911 | 38% | 0.04 | 13 | \$492 | 95% | 0.4 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Lodging | High Bay Lighting | New | Fixture | 503 | 15% | 0.01 | 13 | \$25 | 95% | 1.7 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Lodging | High Bay Lighting | New | Fixture | 747 | 43% | 0.03 | 13 | \$51 | 95% | 3.4 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Lodging | High Bay Lighting | ROB | Fixture | 662 | 15% | 0.01 | 13 | \$25 | 95% | 2.2 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Lodging | High Bay Lighting | ROB | Fixture | 983 | 43% | 0.04 | 13 | \$51 | 95% | 4.5 |
| FE-Penelec | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Lodging | High Bay Lighting | Early | lamp | 147 | 16% | 0.00 | 7 | \$7.7 | 99% | 1.2 |
| FE-Penelec | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Lodging | High Bay Lighting | New | lamp | 87 | 13% | 0.00 | 7 | \$1.6 | 91% | 2.6 |
| FE-Penelec | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Lodging | High Bay Lighting | ROB | lamp | 141 | 13% | 0.00 | 7 | \$1.6 | 91% | 4.2 |
| FE-Penelec | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Lodging | High Bay Lighting | Early | Fixture | 4,409 | 23% | 0.2 | 13 | \$613 | 5% | 1.0 |
| FE-Penelec | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Lodging | High Bay Lighting | Early | Fixture | 3,464 | 1.6% | 0.01 | 13 | \$613 | 28% | 0.1 |
| FE-Penelec | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | Early | Fixture | 8,618 | 60% | 0.8 | 13 | \$613 | 18% | 5.0 |
| FE-Penelec | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Lodging | High Bay Lighting | New | Fixture | 3,351 | 23% | 0.1 | 13 | \$96 | 5% | 4.7 |
| FE-Penelec | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Lodging | High Bay Lighting | ROB | Fixture | 4,409 | 23% | 0.2 | 13 | \$96 | 5% | 6.1 |
| FE-Penelec | Auto Off Time Switch | Lighting w/ No Controls | Lodging | High Bay Lighting | Existing | building | 760 | 24% | 0.2 | 8 | \$837 | 13% | 0.2 |
| FE-Penelec | Auto Off Time Switch | Lighting w/ No Controls | Lodging | High Bay Lighting | New | building | 760 | 6.9% | 0.07 | 8 | \$837 | 0% | 0.1 |
| FE-Penelec | Central Lighting Control System | Lighting w/ No Controls | Lodging | High Bay Lighting | Existing | building | 760 | 38% | 0.4 | 8 | \$837 | 13% | 0.4 |
| FE-Penelec | Central Lighting Control System | Lighting w/ No Controls | Lodging | High Bay Lighting | New | building | 760 | 14% | 0.1 | 8 | \$837 | 13% | 0.1 |
| FE-Penelec | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Lodging | High Bay Lighting | New | building | 760 | 10% | 0.1 | 15 | \$45,527 | 32% | 0.0 |
| FE-Penelec | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Lodging | High Bay Lighting | New | building | 760 | 15% | 0.2 | 15 | \$113,817 | 32% | 0.0 |
| FE-Penelec | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Lodging | High Bay Lighting | New | building | 760 | 30% | 0.3 | 15 | \$163,138 | 32% | 0.0 |
| FE-Penelec | Indoor Daylight Sensors | Lighting w/ No Controls | Lodging | High Bay Lighting | Existing | building | 760 | 28% | 0.3 | 8 | \$4,117 | 13% | 0.1 |
| FE-Penelec | Indoor Daylight Sensors | Lighting w/ No Controls | Lodging | High Bay Lighting | New | building | 760 | 4.1% | 0.04 | 8 | \$4,117 | 0% | 0.0 |
| FE-Penelec | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Lodging | High Bay Lighting | Early | Fixture | 4,409 | 92% | 0.6 | 13 | \$1,916 | 95% | 1.3 |
| FE-Penelec | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | Early | Fixture | 8,618 | 96% | 1.2 | 13 | \$1,916 | 95% | 2.5 |
| FE-Penelec | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Lodging | High Bay Lighting | New | Fixture | 3,351 | 92% | 0.5 | 13 | \$1,468 | 95% | 1.2 |
| FE-Penelec | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | New | Fixture | 6,550 | 96% | 0.9 | 13 | \$1,149 | 95% | 3.2 |
| FE-Penelec | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Lodging | High Bay Lighting | ROB | Fixture | 4,409 | 92% | 0.6 | 13 | \$1,468 | 95% | 1.6 |
| FE-Penelec | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | ROB | Fixture | 8,618 | 96% | 1.2 | 13 | \$1,149 | 95% | 4.2 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Lodging | High Bay Lighting | Early | Fixture | 1,463 | 67% | 0.1 | 13 | \$960 | 95% | 0.6 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Lodging | High Bay Lighting | Early | Fixture | 4,309 | 89% | 0.6 | 13 | \$960 | 95% | 2.3 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Lodging | High Bay Lighting | Early | Fixture | 1,183 | 59% | 0.1 | 13 | \$960 | 95% | 0.4 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Lodging | High Bay Lighting | New | Fixture | 1,112 | 67% | 0.1 | 13 | \$480 | 95% | 0.9 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Lodging | High Bay Lighting | New | Fixture | 3,275 | 89% | 0.4 | 13 | \$491 | 95% | 3.5 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Lodging | High Bay Lighting | New | Fixture | 899 | 59% | 0.08 | 13 | \$406 | 95% | 0.8 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Lodging | High Bay Lighting | ROB | Fixture | 1,463 | 67% | 0.1 | 13 | \$480 | 95% | 1.2 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Lodging | High Bay Lighting | ROB | Fixture | 4,309 | 89% | 0.6 | 13 | \$491 | 95% | 4.6 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|--|---------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Lodging | High Bay Lighting | ROB | Fixture | 1,183 | 59% | 0.1 | 13 | \$406 | 95% | 1.0 |
| FE-Penelec | Occupancy Sensor | Lighting w/ No Controls | Lodging | High Bay Lighting | Existing | building | 760 | 24% | 0.2 | 8 | \$1,260 | 12% | 0.2 |
| FE-Penelec | Occupancy Sensor | Lighting w/ No Controls | Lodging | High Bay Lighting | New | building | 760 | 6.9% | 0.07 | 8 | \$1,260 | 0% | 0.0 |
| FE-Penelec | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Lodging | High Bay Lighting | Existing | building | 760 | 28% | 0.3 | 8 | \$4,117 | 12% | 0.1 |
| FE-Penelec | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Lodging | High Bay Lighting | New | building | 760 | 4.1% | 0.04 | 8 | \$4,117 | 0% | 0.0 |
| FE-Penelec | Time Clock Control | Lighting w/ No Controls | Lodging | High Bay Lighting | Existing | building | 760 | 28% | 0.3 | 8 | \$837 | 13% | 0.3 |
| FE-Penelec | Time Clock Control | Lighting w/ No Controls | Lodging | High Bay Lighting | New | building | 760 | 4.0% | 0.04 | 8 | \$837 | 0% | 0.0 |
| FE-Penelec | Auto Off Time Switch | Lighting w/ No Controls | Lodging | Lin. Fluor. Lighting | Existing | building | 25,656 | 24% | 0.2 | 8 | \$837 | 13% | 2.5 |
| FE-Penelec | Auto Off Time Switch | Lighting w/ No Controls | Lodging | Lin. Fluor. Lighting | New | building | 25,656 | 7.0% | 0.07 | 8 | \$837 | 0% | 0.7 |
| FE-Penelec | Central Lighting Control System | Lighting w/ No Controls | Lodging | Lin. Fluor. Lighting | Existing | building | 25,656 | 38% | 0.4 | 8 | \$837 | 12% | 3.9 |
| FE-Penelec | Central Lighting Control System | Lighting w/ No Controls | Lodging | Lin. Fluor. Lighting | New | building | 25,656 | 14% | 0.1 | 8 | \$837 | 12% | 1.4 |
| FE-Penelec | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Lodging | Lin. Fluor. Lighting | New | building | 25,656 | 10% | 0.1 | 15 | \$45,527 | 32% | 0.0 |
| FE-Penelec | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Lodging | Lin. Fluor. Lighting | New | building | 25,656 | 15% | 0.2 | 15 | \$113,817 | 32% | 0.0 |
| FE-Penelec | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Lodging | Lin. Fluor. Lighting | New | building | 25,656 | 30% | 0.3 | 15 | \$163,138 | 32% | 0.0 |
| FE-Penelec | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Lodging | Lin. Fluor. Lighting | Early | Lamp | 295 | 38% | 0.02 | 7 | \$7.3 | 94% | 5.6 |
| FE-Penelec | Indoor Daylight Sensors | Lighting w/ No Controls | Lodging | Lin. Fluor. Lighting | Existing | building | 25,656 | 28% | 0.3 | 8 | \$4,117 | 13% | 0.6 |
| FE-Penelec | Indoor Daylight Sensors | Lighting w/ No Controls | Lodging | Lin. Fluor. Lighting | New | building | 25,656 | 4.1% | 0.04 | 8 | \$4,117 | 0% | 0.1 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | Early | Lamp | 88 | 19% | 0.00 | 14 | \$35 | 94% | 0.3 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 40W T12 Lamp, Magnetic Ballast | Lodging | Lin. Fluor. Lighting | Early | Lamp | 194 | 63% | 0.02 | 14 | \$35 | 94% | 2.2 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | Early | Lamp | 109 | 34% | 0.01 | 14 | \$35 | 94% | 0.7 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | Early | Lamp | 106 | 32% | 0.01 | 14 | \$35 | 94% | 0.6 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | New | Lamp | 67 | 19% | 0.00 | 14 | \$28 | 94% | 0.3 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | New | Lamp | 80 | 32% | 0.00 | 14 | \$29 | 94% | 0.6 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | New | Lamp | 83 | 34% | 0.00 | 14 | \$22 | 94% | 0.8 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | New | Lamp | 80 | 32% | 0.00 | 14 | \$29 | 94% | 0.6 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | ROB | Lamp | 88 | 19% | 0.00 | 14 | \$28 | 94% | 0.4 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | ROB | Lamp | 106 | 32% | 0.01 | 14 | \$29 | 94% | 0.7 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | ROB | Lamp | 109 | 34% | 0.01 | 14 | \$22 | 94% | 1.1 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | ROB | Lamp | 106 | 32% | 0.01 | 14 | \$29 | 94% | 0.7 |
| FE-Penelec | Occupancy Sensor | Lighting w/ No Controls | Lodging | Lin. Fluor. Lighting | Existing | building | 25,656 | 24% | 0.2 | 8 | \$1,260 | 13% | 1.6 |
| FE-Penelec | Occupancy Sensor | Lighting w/ No Controls | Lodging | Lin. Fluor. Lighting | New | building | 25,656 | 7.0% | 0.07 | 8 | \$1,260 | 0% | 0.5 |
| FE-Penelec | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Lodging | Lin. Fluor. Lighting | Existing | building | 25,656 | 28% | 0.3 | 8 | \$4,117 | 12% | 0.6 |
| FE-Penelec | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Lodging | Lin. Fluor. Lighting | New | building | 25,656 | 4.1% | 0.04 | 8 | \$4,117 | 0% | 0.1 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 40W T12 w/ Magnetic Ballast | Lodging | Lin. Fluor. Lighting | Early | Lamp | 295 | 54% | 0.03 | 7 | \$9.1 | 94% | 6.5 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | Early | Lamp | 189 | 28% | 0.01 | 7 | \$9.1 | 24% | 2.2 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | Early | Lamp | 183 | 26% | 0.01 | 7 | \$9.1 | 94% | 1.9 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | New | Lamp | 139 | 26% | 0.01 | 7 | \$2.5 | 94% | 5.3 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | New | Lamp | 139 | 26% | 0.01 | 7 | \$2.5 | 94% | 5.3 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | New | Lamp | 143 | 28% | 0.01 | 7 | \$2.5 | 24% | 5.9 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | New | Lamp | 139 | 26% | 0.01 | 7 | \$2.5 | 94% | 5.3 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | ROB | Lamp | 183 | 26% | 0.01 | 7 | \$2.5 | 94% | 6.9 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | ROB | Lamp | 183 | 26% | 0.01 | 7 | \$2.5 | 94% | 6.9 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | ROB | Lamp | 189 | 28% | 0.01 | 7 | \$2.5 | 24% | 7.8 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | ROB | Lamp | 183 | 26% | 0.01 | 7 | \$2.5 | 94% | 6.9 |
| FE-Penelec | T8 Lamp (any length) Electronic Ballast | Standard T12 lamp (any length) | Lodging | Lin. Fluor. Lighting | Early | Lamp | 347 | 42% | 0.02 | 7 | \$14 | 94% | 3.9 |
| FE-Penelec | Time Clock Control | Lighting w/ No Controls | Lodging | Lin. Fluor. Lighting | Existing | building | 25,656 | 28% | 0.3 | 8 | \$837 | 14% | 2.9 |
| FE-Penelec | Time Clock Control | Lighting w/ No Controls | Lodging | Lin. Fluor. Lighting | New | building | 25,656 | 4.1% | 0.04 | 8 | \$837 | 0% | 0.4 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | Early | motor | 4,237 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.3 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | Early | motor | 4,237 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.3 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | Early | motor | 4,237 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.3 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | Early | motor | 4,237 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.3 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | Early | motor | 4,237 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.3 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | New | motor | 4,108 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | New | motor | 4,108 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | New | motor | 4,108 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | New | motor | 4,108 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | ROB | motor | 4,108 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | ROB | motor | 4,108 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | ROB | motor | 4,108 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | ROB | motor | 4,108 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | ROB | motor | 4,108 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| FE-Penelec | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | Early | motor | 6,248 | 3.1% | 0.02 | 15 | \$402 | 76% | 0.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|--|---------|---------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | New | motor | 28,947 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.8 |
| FE-Penelec | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | New | motor | 28,947 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.9 |
| FE-Penelec | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | New | motor | 28,947 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.8 |
| FE-Penelec | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | ROB | motor | 28,947 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.8 |
| FE-Penelec | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | ROB | motor | 28,947 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.8 |
| FE-Penelec | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | ROB | motor | 28,947 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.9 |
| FE-Penelec | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | ROB | motor | 28,947 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.8 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | Early | motor | 279,584 | 1.3% | 0.5 | 15 | \$3,955 | 61% | 0.6 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | Early | motor | 279,584 | 1.3% | 0.5 | 15 | \$3,955 | 61% | 0.6 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | Early | motor | 279,584 | 1.3% | 0.5 | 15 | \$3,955 | 61% | 0.6 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | Early | motor | 279,584 | 1.3% | 0.5 | 15 | \$3,955 | 61% | 0.6 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | Early | motor | 279,584 | 1.3% | 0.5 | 15 | \$3,955 | 61% | 0.6 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | New | motor | 277,279 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.6 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | New | motor | 277,279 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.6 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | New | motor | 277,279 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.7 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | New | motor | 277,279 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.6 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | ROB | motor | 277,279 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.6 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | ROB | motor | 277,279 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.6 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | ROB | motor | 277,279 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.6 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | ROB | motor | 277,279 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.7 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | ROB | motor | 277,279 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.6 |
| FE-Penelec | ASD HVAC Fan | Std. HVAC Fan | Lodging | Motors | New | measure | 10,530 | 6.0% | 0.07 | 15 | \$2,225 | 85% | 0.2 |
| FE-Penelec | ASD HVAC Fan | Std. HVAC Fan | Lodging | Motors | ROB | measure | 10,530 | 6.0% | 0.07 | 15 | \$2,225 | 85% | 0.2 |
| FE-Penelec | demand controlled ventilation | Absence of Demand Controlled Ventilation | Lodging | Motors | Early | measure | 10,530 | 14% | 0.2 | 10 | \$5,189 | 92% | 0.1 |
| FE-Penelec | demand controlled ventilation | Office building thermostat | Lodging | Motors | New | measure | 10,530 | 14% | 0.2 | 10 | \$4,048 | 92% | 0.2 |
| FE-Penelec | demand controlled ventilation | Office building thermostat | Lodging | Motors | ROB | measure | 10,530 | 14% | 0.2 | 10 | \$4,048 | 92% | 0.2 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Lodging | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 21.6 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Lodging | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 22.0 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Lodging | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 22.6 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Lodging | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 23.0 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Lodging | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 23.5 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Lodging | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 21.7 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Lodging | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 22.1 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Lodging | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 22.7 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Lodging | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 23.1 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Lodging | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 23.5 |
| FE-Penelec | Escalator Motor Controller | Constant power control | Lodging | Motors | New | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 36% | 5.9 |
| FE-Penelec | Escalator Motor Controller | Constant power control | Lodging | Motors | ROB | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 36% | 5.9 |
| FE-Penelec | Fan Motor - correct sizing | Incorrect Fan Motor Sizing | Lodging | Motors | ROB | measure | 10,530 | 1.6% | 0.02 | 15 | \$50 | 92% | 2.2 |
| FE-Penelec | Variable Speed Drive Control, 15HP | Existing Motors w/out VSD Drive | Lodging | Motors | Early | motor | 57,893 | 70% | 6.0 | 15 | \$731 | 86% | 37.0 |
| FE-Penelec | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Lodging | Motors | New | motor | 56,648 | 72% | 6.0 | 15 | \$731 | 86% | 37.1 |
| FE-Penelec | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Lodging | Motors | ROB | motor | 56,648 | 72% | 6.0 | 15 | \$731 | 86% | 37.1 |
| FE-Penelec | Variable Speed Drive Control, 40HP | Existing Motors w/out VSD Drive | Lodging | Motors | Early | motor | 151,063 | 71% | 15.7 | 15 | \$4,666 | 86% | 15.3 |
| FE-Penelec | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Lodging | Motors | New | motor | 149,297 | 72% | 15.7 | 15 | \$4,666 | 86% | 15.3 |
| FE-Penelec | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Lodging | Motors | ROB | motor | 149,297 | 72% | 15.7 | 15 | \$4,666 | 86% | 15.3 |
| FE-Penelec | Variable Speed Drive Control, 5HP | Existing Motors w/out VFD Drive | Lodging | Motors | Early | motor | 20,070 | 70% | 2.1 | 15 | \$2,243 | 86% | 4.2 |
| FE-Penelec | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Lodging | Motors | New | motor | 19,621 | 72% | 2.1 | 15 | \$2,243 | 86% | 4.2 |
| FE-Penelec | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Lodging | Motors | ROB | motor | 19,621 | 72% | 2.1 | 15 | \$2,243 | 86% | 4.2 |
| FE-Penelec | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Lodging | Motors | Early | motor | 24,832 | 4.5% | 0.1 | 15 | \$268 | 40% | 2.6 |
| FE-Penelec | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Lodging | Motors | New | motor | 24,832 | 4.5% | 0.1 | 15 | \$268 | 40% | 2.6 |
| FE-Penelec | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Lodging | Motors | ROB | motor | 24,832 | 4.5% | 0.1 | 15 | \$268 | 40% | 2.6 |
| FE-Penelec | VFD on Chilled Water Pump | Motor w/out VFD Drive | Lodging | Motors | Early | motor | 50,460 | 54% | 2.7 | 15 | \$2,903 | 86% | 5.6 |
| FE-Penelec | VFD on Chilled Water Pump | Motor w/out VFD Drive | Lodging | Motors | New | motor | 49,516 | 55% | 2.7 | 15 | \$2,843 | 86% | 5.7 |
| FE-Penelec | VFD on Chilled Water Pump | Motor w/out VFD Drive | Lodging | Motors | ROB | motor | 49,516 | 55% | 2.7 | 15 | \$2,843 | 86% | 5.7 |
| FE-Penelec | VFD on Condenser Water Pump | Motor w/out VFD Drive | Lodging | Motors | Early | motor | 46,413 | 32% | 3.2 | 15 | \$2,903 | 86% | 3.7 |
| FE-Penelec | VFD on Condenser Water Pump | Motor w/out VFD Drive | Lodging | Motors | New | motor | 45,545 | 33% | 3.1 | 15 | \$2,843 | 86% | 3.7 |
| FE-Penelec | VFD on Condenser Water Pump | Motor w/out VFD Drive | Lodging | Motors | ROB | motor | 45,545 | 33% | 3.1 | 15 | \$2,843 | 86% | 3.7 |
| FE-Penelec | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Lodging | Motors | Early | motor | 60,769 | 56% | 0.00 | 15 | \$2,903 | 86% | 5.9 |
| FE-Penelec | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Lodging | Motors | New | motor | 59,632 | 57% | 0.00 | 15 | \$2,843 | 86% | 6.1 |
| FE-Penelec | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Lodging | Motors | ROB | motor | 59,632 | 57% | 0.00 | 15 | \$2,843 | 86% | 6.1 |
| FE-Penelec | VFD on HVAC Fan | Motor w/out VFD | Lodging | Motors | Early | motor | 50,441 | 70% | 3.4 | 15 | \$2,903 | 86% | 7.6 |
| FE-Penelec | VFD on HVAC Fan | Motor w/out VFD | Lodging | Motors | New | motor | 49,498 | 72% | 3.3 | 15 | \$2,843 | 86% | 7.7 |
| FE-Penelec | VFD on HVAC Fan | Motor w/out VFD | Lodging | Motors | ROB | motor | 49,498 | 72% | 3.3 | 15 | \$2,843 | 86% | 7.7 |
| FE-Penelec | Elevators | Std. Eff Elevator | Lodging | Other | ROB | measure | 89,016 | 18% | 1.1 | 15 | \$3,382 | 81% | 2.7 |
| FE-Penelec | Variable Speed Drives on Process Equipment | Constant speed control | Lodging | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 10.6 |
| FE-Penelec | Variable Speed Drives on Process Equipment | Constant speed control | Lodging | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 10.6 |
| FE-Penelec | Auto Off Time Switch | Lighting w/ No Controls | Lodging | Other Int. Lighting | Existing | building | 9,760 | 24% | 0.2 | 8 | \$837 | 13% | 1.0 |
| FE-Penelec | Auto Off Time Switch | Lighting w/ No Controls | Lodging | Other Int. Lighting | New | building | 9,760 | 7.0% | 0.07 | 8 | \$837 | 0% | 0.3 |
| FE-Penelec | Central Lighting Control System | Lighting w/ No Controls | Lodging | Other Int. Lighting | Existing | building | 9,760 | 38% | 0.4 | 8 | \$837 | 13% | 1.6 |
| FE-Penelec | Central Lighting Control System | Lighting w/ No Controls | Lodging | Other Int. Lighting | New | building | 9,760 | 14% | 0.1 | 8 | \$837 | 13% | 0.6 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 40W Incandescent Bulb | Lodging | Other Int. Lighting | Early | lamp | 204 | 87% | 0.03 | 7 | \$30 | 14% | 2.1 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Lodging | Other Int. Lighting | Early | lamp | 146 | 81% | 0.02 | 7 | \$30 | 11% | 1.4 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Lodging | Other Int. Lighting | New | lamp | 111 | 81% | 0.01 | 7 | \$21 | 14% | 1.5 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Lodging | Other Int. Lighting | New | lamp | 111 | 81% | 0.01 | 7 | \$23 | 14% | 1.4 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Lodging | Other Int. Lighting | New | lamp | 111 | 81% | 0.01 | 7 | \$22 | 11% | 1.5 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|--|---------|---------------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Lodging | Other Int. Lighting | ROB | lamp | 146 | 81% | 0.02 | 7 | \$21 | 14% | 2.0 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Lodging | Other Int. Lighting | ROB | lamp | 146 | 81% | 0.02 | 7 | \$23 | 14% | 1.9 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Lodging | Other Int. Lighting | ROB | lamp | 146 | 81% | 0.02 | 7 | \$22 | 11% | 1.9 |
| FE-Penelec | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Lodging | Other Int. Lighting | Early | lamp | 204 | 75% | 0.02 | 3 | \$73 | 39% | 0.4 |
| FE-Penelec | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Lodging | Other Int. Lighting | New | fixture | 222 | 65% | 0.02 | 13 | \$29 | 46% | 3.0 |
| FE-Penelec | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Lodging | Other Int. Lighting | New | lamp | 111 | 65% | 0.01 | 3 | \$29 | 46% | 0.4 |
| FE-Penelec | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Lodging | Other Int. Lighting | ROB | fixture | 293 | 65% | 0.03 | 13 | \$29 | 39% | 3.9 |
| FE-Penelec | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Lodging | Other Int. Lighting | ROB | lamp | 146 | 65% | 0.01 | 3 | \$29 | 39% | 0.6 |
| FE-Penelec | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Lodging | Other Int. Lighting | Early | lamp | 204 | 75% | 0.02 | 3 | \$3.2 | 24% | 8.2 |
| FE-Penelec | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Lodging | Other Int. Lighting | New | lamp | 111 | 65% | 0.01 | 3 | \$1.8 | 24% | 7.0 |
| FE-Penelec | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Lodging | Other Int. Lighting | ROB | lamp | 146 | 65% | 0.01 | 3 | \$1.8 | 24% | 9.2 |
| FE-Penelec | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Lodging | Other Int. Lighting | ROB | lamp | 146 | 65% | 0.01 | 3 | \$1.8 | 24% | 9.2 |
| FE-Penelec | Exit Sign Retrofit: CFL replacing Incandescent | One 23W Single Sided Incandescent Exit Sign | Lodging | Other Int. Lighting | Early | exit sign | 130 | 42% | 0.01 | 15 | \$48 | 22% | 0.8 |
| FE-Penelec | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Lodging | Other Int. Lighting | New | building | 9,760 | 10% | 0.1 | 15 | \$45,527 | 32% | 0.0 |
| FE-Penelec | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Lodging | Other Int. Lighting | New | building | 9,760 | 15% | 0.2 | 15 | \$113,817 | 32% | 0.0 |
| FE-Penelec | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Lodging | Other Int. Lighting | New | building | 9,760 | 30% | 0.3 | 15 | \$163,138 | 32% | 0.0 |
| FE-Penelec | Indoor Daylight Sensors | Lighting w/ No Controls | Lodging | Other Int. Lighting | Existing | building | 9,760 | 28% | 0.3 | 8 | \$4,117 | 13% | 0.2 |
| FE-Penelec | Indoor Daylight Sensors | Lighting w/ No Controls | Lodging | Other Int. Lighting | New | building | 9,760 | 4.1% | 0.04 | 8 | \$4,117 | 0% | 0.0 |
| FE-Penelec | LED Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Lodging | Other Int. Lighting | Early | sign | 153 | 87% | 0.02 | 15 | \$48 | 16% | 1.8 |
| FE-Penelec | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Lodging | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 2.0 |
| FE-Penelec | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Lodging | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 2.0 |
| FE-Penelec | LED Task Lighting/Screw-In | 1 15W CFL bulb | Lodging | Other Int. Lighting | Early | lamp | 42 | 33% | 0.00 | 9 | \$9.6 | 24% | 0.6 |
| FE-Penelec | LED Task Lighting/Screw-In | 1 60W Incandescent Bulb | Lodging | Other Int. Lighting | Early | lamp | 167 | 83% | 0.02 | 9 | \$9.6 | 24% | 6.4 |
| FE-Penelec | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Lodging | Other Int. Lighting | New | lamp | 91 | 77% | 0.01 | 9 | \$7.9 | 24% | 3.9 |
| FE-Penelec | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Lodging | Other Int. Lighting | New | lamp | 91 | 77% | 0.01 | 9 | \$7.9 | 24% | 3.9 |
| FE-Penelec | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Lodging | Other Int. Lighting | ROB | lamp | 120 | 77% | 0.01 | 9 | \$7.9 | 24% | 5.1 |
| FE-Penelec | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Lodging | Other Int. Lighting | ROB | lamp | 120 | 77% | 0.01 | 9 | \$7.9 | 24% | 5.1 |
| FE-Penelec | Occupancy Sensor | Lighting w/ No Controls | Lodging | Other Int. Lighting | Existing | building | 9,760 | 24% | 0.2 | 8 | \$1,260 | 12% | 0.7 |
| FE-Penelec | Occupancy Sensor | Lighting w/ No Controls | Lodging | Other Int. Lighting | New | building | 9,760 | 7.0% | 0.07 | 8 | \$1,260 | 0% | 0.2 |
| FE-Penelec | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Lodging | Other Int. Lighting | Existing | building | 9,760 | 28% | 0.3 | 8 | \$4,117 | 12% | 0.2 |
| FE-Penelec | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Lodging | Other Int. Lighting | New | building | 9,760 | 4.1% | 0.04 | 8 | \$4,117 | 0% | 0.0 |
| FE-Penelec | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Lodging | Other Int. Lighting | Early | exit sign | 130 | 100% | 0.02 | 15 | \$173 | 26% | 0.5 |
| FE-Penelec | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Lodging | Other Int. Lighting | New | exit sign | 75 | 100% | 0.01 | 15 | \$148 | 31% | 0.3 |
| FE-Penelec | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Lodging | Other Int. Lighting | ROB | exit sign | 75 | 100% | 0.01 | 15 | \$148 | 26% | 0.3 |
| FE-Penelec | Time Clock Control | Lighting w/ No Controls | Lodging | Other Int. Lighting | Existing | building | 9,760 | 28% | 0.3 | 8 | \$837 | 13% | 1.2 |
| FE-Penelec | Time Clock Control | Lighting w/ No Controls | Lodging | Other Int. Lighting | New | building | 9,760 | 4.1% | 0.04 | 8 | \$837 | 0% | 0.2 |
| FE-Penelec | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Lodging | Plug Load | Existing | building | 1,979 | 46% | 0.5 | 5 | \$189 | 4% | 1.9 |
| FE-Penelec | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Lodging | Plug Load | New | building | 1,979 | 46% | 0.5 | 5 | \$189 | 4% | 1.9 |
| FE-Penelec | Data Center - Server/Storage Consolidation | No Consolidation | Lodging | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penelec | Data Center - Server/Storage Consolidation | No Consolidation | Lodging | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penelec | Data Center - Server/Storage Virtualization | No Virtualization | Lodging | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penelec | Data Center - Server/Storage Virtualization | No Virtualization | Lodging | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penelec | Energy Star - Scanners | Std Scanner | Lodging | Plug Load | New | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| FE-Penelec | Energy Star - Scanners | Std Scanner | Lodging | Plug Load | ROB | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| FE-Penelec | Energy Star Battery Charging System (for small cordless products) | Std. Battery Charging System | Lodging | Plug Load | ROB | measure | 593 | 2.3% | 0.2 | 5 | \$65 | 4% | 1.3 |
| FE-Penelec | Energy Star Dishwasher | Existing Dishwasher units | Lodging | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,550 | 23% | 1.0 |
| FE-Penelec | Energy Star Dishwasher | Standard Dishwasher unit | Lodging | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,003 | 23% | 3.5 |
| FE-Penelec | Energy Star Dishwasher | Standard Dishwasher unit | Lodging | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,003 | 23% | 3.5 |
| FE-Penelec | Energy Star External Power Adapter | Std. Power Adapter | Lodging | Plug Load | New | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| FE-Penelec | Energy Star External Power Adapter | Std. Power Adapter | Lodging | Plug Load | ROB | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| FE-Penelec | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Lodging | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 17% | 0.2 |
| FE-Penelec | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Lodging | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.0 |
| FE-Penelec | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Lodging | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.0 |
| FE-Penelec | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Lodging | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 64% | 0.8 |
| FE-Penelec | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Lodging | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 64% | 1.7 |
| FE-Penelec | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Lodging | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 64% | 1.7 |
| FE-Penelec | ENERGY STAR® Copiers | 10% Less Efficient Copier | Lodging | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 18% | 0.0 |
| FE-Penelec | ENERGY STAR® Copiers | One Conventional Copier | Lodging | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| FE-Penelec | ENERGY STAR® Copiers | One Conventional Copier | Lodging | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| FE-Penelec | ENERGY STAR® desktop | Standard computer | Lodging | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 69% | 0.1 |
| FE-Penelec | ENERGY STAR® desktop | Standard computer | Lodging | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.3 |
| FE-Penelec | ENERGY STAR® desktop | Standard computer | Lodging | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.3 |
| FE-Penelec | ENERGY STAR® Fax | 10% Less Efficient Fax | Lodging | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 15% | 0.0 |
| FE-Penelec | ENERGY STAR® Fax | One Conventional Fax | Lodging | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| FE-Penelec | ENERGY STAR® Fax | One Conventional Fax | Lodging | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| FE-Penelec | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Lodging | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 70% | 0.0 |
| FE-Penelec | ENERGY STAR® Monitors | One Conventional Monitor | Lodging | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| FE-Penelec | ENERGY STAR® Monitors | One Conventional Monitor | Lodging | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| FE-Penelec | ENERGY STAR® Printers | 10% Less Efficient Printer | Lodging | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 44% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|---|---------|---------------|----------|-------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | ENERGY STAR® Printers | One Conventional Printer | Lodging | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| FE-Penelec | ENERGY STAR® Printers | One Conventional Printer | Lodging | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| FE-Penelec | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Lodging | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 43% | 0.1 |
| FE-Penelec | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Lodging | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.7 |
| FE-Penelec | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Lodging | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.7 |
| FE-Penelec | ENERGY STAR® Televisions | 10% Less Efficient Television | Lodging | Plug Load | Early | Unit | 280 | 38% | 0.01 | 6 | \$672 | 40% | 0.0 |
| FE-Penelec | ENERGY STAR® Televisions | One Conventional Television | Lodging | Plug Load | New | Unit | 254 | 32% | 0.01 | 6 | \$206 | 40% | 0.1 |
| FE-Penelec | ENERGY STAR® Televisions | One Conventional Television | Lodging | Plug Load | ROB | Unit | 254 | 32% | 0.01 | 6 | \$206 | 40% | 0.1 |
| FE-Penelec | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Lodging | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 24% | 0.3 |
| FE-Penelec | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Lodging | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.6 |
| FE-Penelec | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Lodging | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.6 |
| FE-Penelec | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Lodging | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 73% | 0.3 |
| FE-Penelec | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Lodging | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 73% | 0.3 |
| FE-Penelec | Network PC Power Management | No PC Power Management | Lodging | Plug Load | Existing | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 9.7 |
| FE-Penelec | Network PC Power Management | No PC Power Management | Lodging | Plug Load | New | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 9.7 |
| FE-Penelec | Smart Strip Plug Outlets | Standard plug strip/outlet | Lodging | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.4 |
| FE-Penelec | Smart Strip Plug Outlets | Standard plug strip/outlet | Lodging | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.4 |
| FE-Penelec | Smart Strip Plug Outlets | Standard plug strip/outlet | Lodging | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Penelec | Smart Strip Plug Outlets | Standard plug strip/outlet | Lodging | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Penelec | Smart Strip Plug Outlets | Standard plug strip/outlet | Lodging | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Penelec | Smart Strip Plug Outlets | Standard plug strip/outlet | Lodging | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Penelec | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Lodging | Plug Load | Existing | building | 1,979 | 46% | 0.5 | 5 | \$180 | 3% | 2.0 |
| FE-Penelec | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Lodging | Plug Load | New | building | 1,979 | 46% | 0.5 | 5 | \$180 | 3% | 2.0 |
| FE-Penelec | Air curtain technology | Strip plastic curtain | Lodging | Refrigeration | New | building | 7,416 | 6.8% | 0.07 | 8 | \$1,083 | 35% | 0.2 |
| FE-Penelec | Air curtain technology | Strip plastic curtain | Lodging | Refrigeration | New | building | 7,578 | 6.8% | 0.07 | 8 | \$1,099 | 35% | 0.2 |
| FE-Penelec | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Lodging | Refrigeration | Existing | building | 645 | 2.3% | 0.02 | 12 | \$70 | 11% | 0.3 |
| FE-Penelec | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Lodging | Refrigeration | New | building | 645 | 2.3% | 0.02 | 12 | \$70 | 11% | 0.3 |
| FE-Penelec | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Lodging | Refrigeration | Existing | building | 645 | 0.9% | 0.01 | 12 | \$70 | 11% | 0.1 |
| FE-Penelec | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Lodging | Refrigeration | New | building | 645 | 0.9% | 0.01 | 12 | \$70 | 11% | 0.1 |
| FE-Penelec | Auto Closer on Refrigerator Door | Door w/out Autocloser | Lodging | Refrigeration | Existing | building | 7,416 | 18% | 0.2 | 8 | \$803 | 40% | 0.6 |
| FE-Penelec | Auto Closer on Refrigerator Door | Door w/out Autocloser | Lodging | Refrigeration | Existing | building | 7,578 | 9.1% | 0.09 | 8 | \$714 | 40% | 0.4 |
| FE-Penelec | Auto Closer on Refrigerator Door | Door w/out Autocloser | Lodging | Refrigeration | New | building | 7,416 | 18% | 0.2 | 8 | \$803 | 40% | 0.6 |
| FE-Penelec | Auto Closer on Refrigerator Door | Door w/out Autocloser | Lodging | Refrigeration | New | building | 7,578 | 9.1% | 0.09 | 8 | \$714 | 40% | 0.4 |
| FE-Penelec | Demand Hot Gas Defrost | Base Refrigeration System | Lodging | Refrigeration | Existing | measure | 645 | 3.0% | 0.03 | 10 | \$1,398 | 0% | 0.0 |
| FE-Penelec | Demand Hot Gas Defrost | Base Refrigeration System | Lodging | Refrigeration | New | measure | 645 | 3.0% | 0.03 | 10 | \$1,398 | 0% | 0.0 |
| FE-Penelec | Door Gasket- Freezer | Door w/out Gasket | Lodging | Refrigeration | Existing | building | 7,416 | 10% | 0.1 | 4 | \$82 | 29% | 1.9 |
| FE-Penelec | Door Gasket- Freezer | Door w/out Gasket | Lodging | Refrigeration | New | building | 7,416 | 9.3% | 0.09 | 4 | \$82 | 29% | 1.7 |
| FE-Penelec | Door Gasket- Refrigerator | Door w/out Gasket | Lodging | Refrigeration | Existing | building | 7,578 | 2.9% | 0.03 | 4 | \$99 | 45% | 0.5 |
| FE-Penelec | Door Gasket- Refrigerator | Door w/out Gasket | Lodging | Refrigeration | New | building | 7,578 | 2.9% | 0.03 | 4 | \$99 | 45% | 0.5 |
| FE-Penelec | Economizer for Walk-in Coolers | No Economizer | Lodging | Refrigeration | Early | measure | 16,150 | 6.6% | 0.1 | 10 | \$188 | 72% | 2.5 |
| FE-Penelec | Economizer for Walk-in Coolers | No Economizer | Lodging | Refrigeration | Early | measure | 16,150 | 6.6% | 0.1 | 10 | \$188 | 72% | 2.5 |
| FE-Penelec | Economizer for Walk-in Coolers | No Economizer | Lodging | Refrigeration | Early | measure | 16,150 | 6.6% | 0.1 | 10 | \$188 | 72% | 2.5 |
| FE-Penelec | Economizer for Walk-in Coolers | No Economizer | Lodging | Refrigeration | New | measure | 16,150 | 6.6% | 0.1 | 10 | \$22 | 72% | 21.6 |
| FE-Penelec | Economizer for Walk-in Coolers | No Economizer | Lodging | Refrigeration | New | measure | 16,150 | 6.6% | 0.1 | 10 | \$22 | 72% | 21.6 |
| FE-Penelec | Economizer for Walk-in Coolers | No Economizer | Lodging | Refrigeration | New | measure | 16,150 | 6.6% | 0.1 | 10 | \$22 | 72% | 21.6 |
| FE-Penelec | Economizer for Walk-in Coolers | No Economizer | Lodging | Refrigeration | ROB | measure | 16,150 | 6.6% | 0.1 | 10 | \$22 | 72% | 21.6 |
| FE-Penelec | Economizer for Walk-in Coolers | No Economizer | Lodging | Refrigeration | ROB | measure | 16,150 | 6.6% | 0.1 | 10 | \$22 | 72% | 21.6 |
| FE-Penelec | Economizer for Walk-in Coolers | No Economizer | Lodging | Refrigeration | ROB | measure | 16,150 | 6.6% | 0.1 | 10 | \$22 | 72% | 21.6 |
| FE-Penelec | eCube | Refrigeration unit w/out eCube | Lodging | Refrigeration | Existing | building | 7,578 | 15% | 0.2 | 15 | \$601 | 57% | 1.2 |
| FE-Penelec | eCube | Refrigeration unit w/out eCube | Lodging | Refrigeration | New | building | 7,578 | 15% | 0.2 | 15 | \$601 | 57% | 1.2 |
| FE-Penelec | Efficient compressor motor | Base Refrigeration System - Grocery | Lodging | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.6 |
| FE-Penelec | Efficient compressor motor | Base Refrigeration System - Grocery | Lodging | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.6 |
| FE-Penelec | Efficient compressor motor | Base Refrigeration System - Grocery | Lodging | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.6 |
| FE-Penelec | Efficient compressor motor | Base Refrigeration System - Grocery | Lodging | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.6 |
| FE-Penelec | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Lodging | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.5 |
| FE-Penelec | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Lodging | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| FE-Penelec | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Lodging | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| FE-Penelec | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Lodging | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.3 |
| FE-Penelec | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Lodging | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.7 |
| FE-Penelec | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Lodging | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.7 |
| FE-Penelec | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Lodging | Refrigeration | Existing | building | 7,578 | 1.1% | 0.01 | 10 | \$369 | 77% | 0.1 |
| FE-Penelec | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Lodging | Refrigeration | New | building | 7,578 | 1.1% | 0.01 | 10 | \$369 | 77% | 0.1 |
| FE-Penelec | Floating head pressure controller | System w/out FHPC | Lodging | Refrigeration | Existing | building | 7,416 | 3.0% | 0.02 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penelec | Floating head pressure controller | System w/out FHPC | Lodging | Refrigeration | Existing | building | 645 | 15% | 0.01 | 15 | \$8,682 | 41% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|--|---|---------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Floating head pressure controller | System w/out FHPC | Lodging | Refrigeration | Existing | building | 7,578 | 1.0% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penelec | Floating head pressure controller | System w/out FHPC | Lodging | Refrigeration | New | building | 7,416 | 3.0% | 0.02 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penelec | Floating head pressure controller | System w/out FHPC | Lodging | Refrigeration | New | building | 645 | 15% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penelec | Floating head pressure controller | System w/out FHPC | Lodging | Refrigeration | New | building | 7,578 | 1.0% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penelec | High Efficiency Commercial Freezer | Std. Commercial Freezer | Lodging | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 84% | 0.3 |
| FE-Penelec | High Efficiency Commercial Freezer | Std. Commercial Freezer | Lodging | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 84% | 3.8 |
| FE-Penelec | High Efficiency Commercial Freezer | Std. Commercial Freezer | Lodging | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 84% | 3.8 |
| FE-Penelec | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Lodging | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 21% | 0.1 |
| FE-Penelec | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Lodging | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 21% | 0.8 |
| FE-Penelec | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Lodging | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 21% | 0.8 |
| FE-Penelec | High Efficiency Ice Maker | Exisiting Standard Efficiency Ice Maker in Pennsylvania | Lodging | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 69% | 0.1 |
| FE-Penelec | High Efficiency Ice Maker | Standard code minimum Ice Maker | Lodging | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| FE-Penelec | High Efficiency Ice Maker | Standard code minimum Ice Maker | Lodging | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 69% | 0.2 |
| FE-Penelec | High Efficiency Ice Making Head | Standard Ice Making Head | Lodging | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.7 |
| FE-Penelec | High Efficiency Ice Making Head | Standard Ice Making Head | Lodging | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.7 |
| FE-Penelec | High R-Value Glass Doors | Base Refrigeration System - Grocery | Lodging | Refrigeration | Existing | building | 645 | 0.7% | 0.01 | 10 | \$25 | 0% | 0.3 |
| FE-Penelec | High R-Value Glass Doors | Base Refrigeration System - Grocery | Lodging | Refrigeration | New | building | 645 | 0.7% | 0.01 | 10 | \$25 | 0% | 0.3 |
| FE-Penelec | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Lodging | Refrigeration | Early | Fixture | 373 | 56% | 0.02 | 8 | \$448 | 86% | 0.2 |
| FE-Penelec | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Lodging | Refrigeration | New | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 86% | 0.3 |
| FE-Penelec | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Lodging | Refrigeration | ROB | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 86% | 0.3 |
| FE-Penelec | No-heat glass doors | Standard low-temp reach-in | Lodging | Refrigeration | Existing | building | 645 | 20% | 0.2 | 10 | \$2,261 | 8% | 0.1 |
| FE-Penelec | No-heat glass doors | Standard low-temp reach-in | Lodging | Refrigeration | New | building | 645 | 20% | 0.2 | 10 | \$2,261 | 8% | 0.1 |
| FE-Penelec | Quick acting freezer doors | Std. Freezer Doors | Lodging | Refrigeration | Existing | building | 7,416 | 13% | 0.1 | 10 | \$1,275 | 56% | 0.3 |
| FE-Penelec | Quick acting freezer doors | Std. Freezer Doors | Lodging | Refrigeration | New | building | 7,416 | 13% | 0.1 | 10 | \$1,275 | 56% | 0.3 |
| FE-Penelec | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Lodging | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 29% | 0.4 |
| FE-Penelec | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Lodging | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 29% | 1.5 |
| FE-Penelec | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Lodging | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 29% | 1.5 |
| FE-Penelec | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 29% | 1.6 |
| FE-Penelec | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 29% | 2.8 |
| FE-Penelec | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 29% | 2.8 |
| FE-Penelec | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 29% | 1.6 |
| FE-Penelec | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 29% | 3.8 |
| FE-Penelec | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 29% | 3.8 |
| FE-Penelec | Refrigeration Commissioning | Non-commissioned refrigeration system | Lodging | Refrigeration | Existing | building | 16,122 | 9.5% | 0.10 | 3 | \$4,029 | 85% | 0.1 |
| FE-Penelec | Refrigeration Commissioning | Non-commissioned refrigeration system | Lodging | Refrigeration | New | building | 16,122 | 9.5% | 0.10 | 3 | \$4,029 | 85% | 0.1 |
| FE-Penelec | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Lodging | Refrigeration | Existing | building | 7,416 | 24% | 0.2 | 4 | \$100 | 22% | 3.6 |
| FE-Penelec | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Lodging | Refrigeration | Existing | building | 7,578 | 4.1% | 0.04 | 4 | \$120 | 22% | 0.5 |
| FE-Penelec | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Lodging | Refrigeration | New | building | 7,416 | 24% | 0.2 | 4 | \$100 | 22% | 3.6 |
| FE-Penelec | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Lodging | Refrigeration | New | building | 7,578 | 4.1% | 0.04 | 4 | \$120 | 22% | 0.5 |
| FE-Penelec | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Lodging | Refrigeration | Existing | building | 7,416 | 4.4% | 0.04 | 11 | \$140 | 79% | 1.1 |
| FE-Penelec | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Lodging | Refrigeration | New | building | 7,416 | 4.4% | 0.04 | 11 | \$140 | 79% | 1.1 |
| FE-Penelec | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Lodging | Refrigeration | Existing | building | 7,578 | 3.3% | 0.03 | 11 | \$140 | 79% | 0.9 |
| FE-Penelec | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Lodging | Refrigeration | New | building | 7,578 | 3.3% | 0.03 | 11 | \$140 | 79% | 0.9 |
| FE-Penelec | Vendor Miser | No Vendor Miser | Lodging | Refrigeration | Existing | machine | 645 | 12% | 0.1 | 8 | \$66 | 7% | 1.5 |
| FE-Penelec | Vertical Night Covers | Display cases w/out night covers-High Temperature | Lodging | Refrigeration | Existing | building | 645 | 0.4% | 0.00 | 5 | \$52 | 9% | 0.0 |
| FE-Penelec | Vertical Night Covers | Display cases w/out night covers-High Temperature | Lodging | Refrigeration | New | building | 645 | 0.4% | 0.00 | 5 | \$52 | 9% | 0.0 |
| FE-Penelec | VSD Controlled Compressor | Compressor w/out VSD | Lodging | Refrigeration | Early | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 73% | 0.1 |
| FE-Penelec | VSD Controlled Compressor | Compressor w/out VSD | Lodging | Refrigeration | New | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 73% | 0.1 |
| FE-Penelec | VSD Controlled Compressor | Compressor w/out VSD | Lodging | Refrigeration | ROB | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 73% | 0.1 |
| FE-Penelec | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Lodging | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$269 | 35% | 0.9 |
| FE-Penelec | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Lodging | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$269 | 35% | 0.8 |
| FE-Penelec | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Lodging | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.0 |
| FE-Penelec | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Lodging | Refrigeration | New | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 2.9 |
| FE-Penelec | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Lodging | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.0 |
| FE-Penelec | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Lodging | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 2.9 |
| FE-Penelec | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 35% | 2.3 |
| FE-Penelec | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 35% | 2.2 |
| FE-Penelec | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 4.9 |
| FE-Penelec | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.6 |
| FE-Penelec | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 4.9 |
| FE-Penelec | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.6 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Lodging | Space Heating | Existing | building | 11,305 | 7.1% | 0.07 | 6 | \$17,952 | 82% | 0.0 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Lodging | Space Heating | New | building | 11,305 | 7.1% | 0.07 | 6 | \$17,952 | 82% | 0.0 |
| FE-Penelec | Adding window shade film | No shade film | Lodging | Space Heating | Existing | building | 11,305 | 1.3% | 0.4 | 10 | \$138 | 13% | 2.3 |
| FE-Penelec | Adding window shade film | No shade film | Lodging | Space Heating | New | building | 11,305 | 1.3% | 0.4 | 10 | \$138 | 13% | 2.3 |
| FE-Penelec | Adding window shade screen | No shade screen | Lodging | Space Heating | Existing | building | 11,305 | 1.1% | 0.01 | 10 | \$53 | 13% | 0.9 |
| FE-Penelec | Adding window shade screen | No shade screen | Lodging | Space Heating | New | building | 11,305 | 1.1% | 0.01 | 10 | \$53 | 13% | 0.9 |
| FE-Penelec | Automated control system | Manual Controls | Lodging | Space Heating | Existing | building | 11,305 | 17% | 0.2 | 15 | \$12,376 | 51% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|---|---------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Automated control system | Manual Controls | Lodging | Space Heating | New | building | 11,305 | 17% | 0.2 | 15 | \$12,376 | 94% | 0.1 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Lodging | Space Heating | Existing | building | 11,305 | 3.3% | 0.03 | 15 | \$23,552 | 71% | 0.0 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Lodging | Space Heating | New | building | 11,305 | 1.1% | 0.01 | 15 | \$22,387 | 94% | 0.0 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Lodging | Space Heating | Existing | building | 11,305 | 1.4% | 0.04 | 15 | \$90 | 20% | 1.3 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Lodging | Space Heating | New | building | 11,305 | 1.4% | 0.04 | 15 | \$90 | 10% | 1.3 |
| FE-Penelec | Efficient Unit Heating System | Existing Unit Heaters in PA | Lodging | Space Heating | Early | heater | 78,299 | 23% | 0.1 | 15 | \$3,289 | 83% | 2.7 |
| FE-Penelec | Efficient Unit Heating System | Std. Unit Heater | Lodging | Space Heating | New | heater | 69,490 | 13% | 0.07 | 15 | \$1,991 | 83% | 2.2 |
| FE-Penelec | Efficient Unit Heating System | Std. Unit Heater | Lodging | Space Heating | ROB | heater | 69,490 | 13% | 0.07 | 15 | \$1,991 | 83% | 2.2 |
| FE-Penelec | Facility Commissioning | No Facility Commissioning | Lodging | Space Heating | New | building | 11,305 | 16% | 0.2 | 10 | \$2,358 | 89% | 0.3 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Lodging | Space Heating | Existing | building | 11,305 | 7.1% | 0.07 | 15 | \$50,146 | 25% | 0.0 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Lodging | Space Heating | New | building | 11,305 | 7.1% | 0.07 | 15 | \$50,146 | 35% | 0.0 |
| FE-Penelec | Hi Eff HVAC System Design | No HVAC Design | Lodging | Space Heating | New | building | 11,305 | 7.3% | 0.07 | 10 | \$67,488 | 51% | 0.0 |
| FE-Penelec | Hotel Occupancy Sensor | HVAC system w/out Occupancy Sensors | Lodging | Space Heating | Existing | building | 11,305 | 3.5% | 0.04 | 15 | \$11,644 | 89% | 0.0 |
| FE-Penelec | Hotel Occupancy Sensor | HVAC system w/out Occupancy Sensors | Lodging | Space Heating | New | building | 11,305 | 3.5% | 0.04 | 15 | \$11,644 | 94% | 0.0 |
| FE-Penelec | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Lodging | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$76 | 80% | 1.0 |
| FE-Penelec | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Lodging | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$76 | 80% | 1.0 |
| FE-Penelec | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Lodging | Space Heating | Existing | building | 11,305 | 3.5% | 0.04 | 10 | \$7,735 | 81% | 0.0 |
| FE-Penelec | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Lodging | Space Heating | New | building | 11,305 | 3.5% | 0.04 | 10 | \$7,735 | 81% | 0.0 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Lodging | Space Heating | Existing | building | 11,305 | 3.6% | 0.04 | 11 | \$286 | 49% | 0.6 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Lodging | Space Heating | New | building | 11,305 | 3.1% | 0.03 | 11 | \$146 | 49% | 1.0 |
| FE-Penelec | Re-Commissioning (Existing Construction) | No Re-Commissioning | Lodging | Space Heating | Existing | building | 11,305 | 16% | 0.2 | 5 | \$12,530 | 86% | 0.0 |
| FE-Penelec | VFD on Cooling Tower Fan | Motor w/out VFD | Lodging | Space Heating | Early | motor | 50,441 | 70% | 3.4 | 15 | \$2,843 | 88% | 7.1 |
| FE-Penelec | VFD on Cooling Tower Fan | Motor w/out VFD | Lodging | Space Heating | New | motor | 49,498 | 72% | 3.3 | 15 | \$2,843 | 88% | 7.1 |
| FE-Penelec | VFD on Cooling Tower Fan | Motor w/out VFD | Lodging | Space Heating | ROB | motor | 49,498 | 72% | 3.3 | 15 | \$2,843 | 88% | 7.1 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Lodging | Space Heating | Existing | building | 11,305 | 8.0% | 0.08 | 15 | \$6,019 | 26% | 0.1 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Lodging | Space Heating | New | building | 11,305 | 0.2% | 0.00 | 15 | \$4,617 | 94% | 0.0 |
| FE-Penelec | Green LED Traffic Light | Green Incandescent Traffic Light | Lodging | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 0% | 1.2 |
| FE-Penelec | Green LED Traffic Light | Green Incandescent Traffic Light | Lodging | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| FE-Penelec | Green LED Traffic Light | Green Incandescent Traffic Light | Lodging | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| FE-Penelec | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Lodging | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 0% | 3.0 |
| FE-Penelec | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Lodging | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-Penelec | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Lodging | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-Penelec | Induction Street Lighting | One 100W HPS Street Light Fixture | Lodging | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 0% | 0.3 |
| FE-Penelec | Induction Street Lighting | One 100W HPS Street Light Fixture | Lodging | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.7 |
| FE-Penelec | Induction Street Lighting | One 100W HPS Street Light Fixture | Lodging | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.7 |
| FE-Penelec | LED Street Lighting | One 100W HPS Street Light | Lodging | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 0% | 0.2 |
| FE-Penelec | LED Street Lighting | One 100W HPS Street Light | Lodging | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-Penelec | LED Street Lighting | One 100W HPS Street Light | Lodging | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-Penelec | Red LED Traffic Light | One Red Incandescent Traffic Light | Lodging | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 0% | 1.6 |
| FE-Penelec | Red LED Traffic Light | One Red Incandescent Traffic Light | Lodging | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| FE-Penelec | Red LED Traffic Light | One Red Incandescent Traffic Light | Lodging | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| FE-Penelec | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Lodging | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 0% | 0.1 |
| FE-Penelec | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Lodging | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-Penelec | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Lodging | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-Penelec | Demand controlled Circulating Systems | Constant circulation system | Lodging | Water Heating | Existing | building | 458 | 20% | 0.2 | 15 | \$83 | 59% | 2.8 |
| FE-Penelec | Demand controlled Circulating Systems | Constant circulation system | Lodging | Water Heating | New | building | 458 | 20% | 0.2 | 15 | \$83 | 59% | 2.8 |
| FE-Penelec | Drainwater Heat Recovery Water Heater | No heat recovery | Lodging | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.9 |
| FE-Penelec | Drainwater Heat Recovery Water Heater | No heat recovery | Lodging | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.9 |
| FE-Penelec | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Lodging | Water Heating | Existing | building | 458 | 5.9% | 0.06 | 12 | \$182 | 85% | 0.3 |
| FE-Penelec | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Lodging | Water Heating | New | building | 458 | 5.9% | 0.06 | 12 | \$52 | 85% | 1.1 |
| FE-Penelec | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Lodging | Water Heating | Early | water heater | 48,207 | 66% | 5.6 | 10 | \$2,375 | 68% | 6.6 |
| FE-Penelec | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Lodging | Water Heating | Early | water heater | 48,207 | 66% | 5.6 | 10 | \$2,375 | 68% | 6.6 |
| FE-Penelec | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Lodging | Water Heating | New | water heater | 48,207 | 66% | 5.6 | 10 | \$2,375 | 68% | 6.6 |
| FE-Penelec | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Lodging | Water Heating | New | water heater | 48,207 | 66% | 5.6 | 10 | \$2,375 | 68% | 6.6 |
| FE-Penelec | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Lodging | Water Heating | ROB | water heater | 46,868 | 65% | 5.4 | 10 | \$2,375 | 68% | 6.3 |
| FE-Penelec | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Lodging | Water Heating | ROB | water heater | 46,868 | 65% | 5.4 | 10 | \$2,375 | 68% | 6.3 |
| FE-Penelec | Heat Recovery Unit | Base Water Heating | Lodging | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.6 |
| FE-Penelec | Heat Recovery Unit | Base Water Heating | Lodging | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.6 |
| FE-Penelec | Heat Trap | No Heat Trap | Lodging | Water Heating | Existing | building | 458 | 21% | 0.2 | 11 | \$2.7 | 50% | 71.3 |
| FE-Penelec | Heat Trap | No Heat Trap | Lodging | Water Heating | New | building | 458 | 21% | 0.2 | 11 | \$0.8 | 50% | 231.6 |
| FE-Penelec | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Lodging | Water Heating | Early | water heater | 48,207 | 5.9% | 0.5 | 15 | \$614 | 79% | 3.2 |
| FE-Penelec | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Lodging | Water Heating | Early | water heater | 48,207 | 5.9% | 0.5 | 15 | \$614 | 79% | 3.2 |
| FE-Penelec | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Lodging | Water Heating | New | water heater | 46,868 | 3.2% | 0.3 | 15 | \$614 | 79% | 1.7 |
| FE-Penelec | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Lodging | Water Heating | New | water heater | 46,868 | 3.2% | 0.3 | 15 | \$614 | 79% | 1.7 |
| FE-Penelec | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Lodging | Water Heating | ROB | water heater | 46,868 | 3.2% | 0.3 | 15 | \$614 | 79% | 1.7 |
| FE-Penelec | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Lodging | Water Heating | ROB | water heater | 46,868 | 3.2% | 0.3 | 15 | \$614 | 79% | 1.7 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|--|---|---------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Lodging | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$466 | 81% | 39.2 |
| FE-Penelec | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Lodging | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 20.4 |
| FE-Penelec | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Lodging | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 20.4 |
| FE-Penelec | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Lodging | Water Heating | Existing | building | 458 | 1.3% | 0.01 | 13 | \$8.7 | 68% | 1.6 |
| FE-Penelec | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Lodging | Water Heating | New | building | 458 | 1.3% | 0.01 | 13 | \$8.7 | 0% | 1.6 |
| FE-Penelec | Hot Water Circulation Pump Time-Clock | Constant circulation system | Lodging | Water Heating | Existing | building | 458 | 5.3% | 0.05 | 10 | \$1.9 | 72% | 25.0 |
| FE-Penelec | Hot Water Circulation Pump Time-Clock | Constant circulation system | Lodging | Water Heating | New | building | 458 | 5.3% | 0.05 | 10 | \$1.9 | 72% | 25.0 |
| FE-Penelec | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Lodging | Water Heating | Existing | building | 458 | 0.2% | 0.00 | 7 | \$22 | 78% | 0.1 |
| FE-Penelec | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Lodging | Water Heating | New | building | 458 | 0.2% | 0.00 | 7 | \$0.5 | 78% | 2.7 |
| FE-Penelec | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Lodging | Water Heating | Existing | building | 458 | 4.2% | 0.04 | 5 | \$300 | 20% | 0.1 |
| FE-Penelec | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Lodging | Water Heating | New | building | 458 | 2.8% | 0.03 | 5 | \$194 | 20% | 0.1 |
| FE-Penelec | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Lodging | Water Heating | Existing | building | 458 | 6.5% | 0.07 | 9 | \$625 | 85% | 0.1 |
| FE-Penelec | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Lodging | Water Heating | New | building | 458 | 6.5% | 0.07 | 9 | \$150 | 85% | 0.3 |
| FE-Penelec | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Lodging | Water Heating | Early | water heater | 48,207 | 52% | 2.0 | 15 | \$12,444 | 32% | 1.2 |
| FE-Penelec | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Lodging | Water Heating | New | water heater | 46,868 | 51% | 1.9 | 15 | \$12,444 | 32% | 1.2 |
| FE-Penelec | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Lodging | Water Heating | ROB | water heater | 46,868 | 51% | 1.9 | 15 | \$12,444 | 32% | 1.2 |
| FE-Penelec | Ultrasonic Faucet Control | Manual Faucet Control | Lodging | Water Heating | Existing | building | 458 | 3.0% | 0.03 | 10 | \$79 | 77% | 0.3 |
| FE-Penelec | Ultrasonic Faucet Control | Manual Faucet Control | Lodging | Water Heating | New | building | 458 | 3.0% | 0.03 | 10 | \$79 | 77% | 0.3 |
| FE-Penelec | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Lodging | Water Heating | Existing | building | 458 | 2.2% | 0.02 | 4 | \$28 | 83% | 0.3 |
| FE-Penelec | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Lodging | Water Heating | New | building | 458 | 2.3% | 0.02 | 4 | \$28 | 83% | 0.3 |
| FE-Penelec | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Misc. | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.1 |
| FE-Penelec | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Misc. | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.1 |
| FE-Penelec | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Misc. | Cooking | Early | steamer | 51 | 46% | 0.00 | 12 | \$5,053 | 81% | 0.0 |
| FE-Penelec | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Misc. | Cooking | New | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-Penelec | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Misc. | Cooking | ROB | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-Penelec | Electric combination oven (Energy Star) | Standard Oven | Misc. | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.9 |
| FE-Penelec | Electric combination oven (Energy Star) | Standard Oven | Misc. | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.9 |
| FE-Penelec | Electric Convection Oven | Conventional convection oven w/ 65% efficiency | Misc. | Cooking | Early | oven | 8,641 | 37% | 0.6 | 12 | \$4,119 | 81% | 0.4 |
| FE-Penelec | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Misc. | Cooking | New | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.7 |
| FE-Penelec | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Misc. | Cooking | ROB | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.7 |
| FE-Penelec | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Misc. | Cooking | Early | fryer | 6,105 | 23% | 0.3 | 12 | \$9,241 | 86% | 0.1 |
| FE-Penelec | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Misc. | Cooking | New | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| FE-Penelec | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Misc. | Cooking | ROB | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| FE-Penelec | High Efficiency Griddle (ENERGY STAR) | Efficiency code minimum griddle (70% eff) | Misc. | Cooking | Early | griddle | 11,317 | 65% | 1.4 | 12 | \$4,977 | 86% | 0.8 |
| FE-Penelec | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Misc. | Cooking | New | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.2 |
| FE-Penelec | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Misc. | Cooking | ROB | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.2 |
| FE-Penelec | High Efficiency Induction Cooking | Standard Cooking | Misc. | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-Penelec | High Efficiency Induction Cooking | Standard Cooking | Misc. | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Misc. | Cooling Central | Existing | building | 2,538 | 7.0% | 0.07 | 6 | \$12,713 | 82% | 0.0 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Misc. | Cooling Central | New | building | 2,538 | 7.0% | 0.07 | 6 | \$12,713 | 82% | 0.0 |
| FE-Penelec | Adding window shade film | No shade film | Misc. | Cooling Central | Existing | building | 2,538 | 1.3% | 0.4 | 10 | \$31 | 13% | 8.8 |
| FE-Penelec | Adding window shade film | No shade film | Misc. | Cooling Central | New | building | 2,538 | 1.3% | 0.4 | 10 | \$31 | 13% | 8.8 |
| FE-Penelec | Adding window shade screen | No shade screen | Misc. | Cooling Central | Existing | building | 2,538 | 1.1% | 0.01 | 10 | \$12 | 13% | 1.4 |
| FE-Penelec | Adding window shade screen | No shade screen | Misc. | Cooling Central | New | building | 2,538 | 1.0% | 0.01 | 10 | \$12 | 13% | 1.4 |
| FE-Penelec | Automated control system | Manual Controls | Misc. | Cooling Central | Existing | building | 2,538 | 17% | 0.2 | 15 | \$2,778 | 51% | 0.1 |
| FE-Penelec | Automated control system | Manual Controls | Misc. | Cooling Central | New | building | 2,538 | 17% | 0.2 | 15 | \$2,778 | 94% | 0.1 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Misc. | Cooling Central | Existing | building | 2,538 | 4.9% | 0.05 | 15 | \$17,130 | 71% | 0.0 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Misc. | Cooling Central | New | building | 2,538 | 1.7% | 0.02 | 15 | \$16,283 | 94% | 0.0 |
| FE-Penelec | Chiller Tuneup/Diagnostics | No tuneup | Misc. | Cooling Central | Existing | building | 2,538 | 8.0% | 0.08 | 10 | \$6,481 | 59% | 0.0 |
| FE-Penelec | Chiller Tuneup/Diagnostics | No tuneup | Misc. | Cooling Central | New | building | 2,538 | 8.0% | 0.08 | 10 | \$6,481 | 59% | 0.0 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Misc. | Cooling Central | Existing | building | 2,538 | 1.4% | 0.04 | 15 | \$20 | 20% | 2.8 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Misc. | Cooling Central | New | building | 2,538 | 1.4% | 0.04 | 15 | \$20 | 10% | 2.8 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Misc. | Cooling Central | Existing | building | 2,538 | 7.0% | 0.07 | 15 | \$11,258 | 25% | 0.0 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Misc. | Cooling Central | New | building | 2,538 | 7.0% | 0.07 | 15 | \$11,258 | 35% | 0.0 |
| FE-Penelec | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Misc. | Cooling Central | Early | ton | 3,841 | 24% | 0.3 | 15 | \$108,550 | 88% | 0.0 |
| FE-Penelec | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Misc. | Cooling Central | New | ton | 3,140 | 6.7% | 0.07 | 15 | \$12,927 | 88% | 0.0 |
| FE-Penelec | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Misc. | Cooling Central | ROB | ton | 3,140 | 6.7% | 0.07 | 15 | \$12,927 | 88% | 0.0 |
| FE-Penelec | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Misc. | Cooling Central | Early | ton | 5,740 | 23% | 0.5 | 15 | \$140,105 | 88% | 0.0 |
| FE-Penelec | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Misc. | Cooling Central | New | ton | 4,618 | 4.9% | 0.08 | 15 | \$9,336 | 88% | 0.0 |
| FE-Penelec | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Misc. | Cooling Central | ROB | ton | 4,618 | 4.9% | 0.08 | 15 | \$9,336 | 88% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|--|--|---------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Misc. | Cooling Central | Early | ton | 46,985 | 26% | 4.2 | 15 | \$105,354 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Misc. | Cooling Central | New | ton | 40,938 | 15% | 2.1 | 15 | \$30,530 | 88% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Misc. | Cooling Central | ROB | ton | 40,938 | 15% | 2.1 | 15 | \$30,530 | 88% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Misc. | Cooling Central | Early | ton | 70,371 | 23% | 5.6 | 15 | \$154,107 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Misc. | Cooling Central | New | ton | 64,645 | 16% | 3.6 | 15 | \$27,646 | 88% | 0.3 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Misc. | Cooling Central | ROB | ton | 70,371 | 23% | 5.6 | 15 | \$27,646 | 88% | 0.5 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Misc. | Cooling Central | Early | ton | 116,873 | 23% | 9.2 | 15 | \$302,924 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Misc. | Cooling Central | New | ton | 105,779 | 14% | 5.3 | 15 | \$115,432 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Misc. | Cooling Central | ROB | ton | 116,873 | 23% | 9.2 | 15 | \$115,432 | 88% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Misc. | Cooling Central | Early | ton | 140,248 | 23% | 11.0 | 15 | \$350,154 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Misc. | Cooling Central | New | ton | 126,935 | 14% | 6.4 | 15 | \$120,406 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Misc. | Cooling Central | ROB | ton | 140,248 | 23% | 11.0 | 15 | \$120,406 | 88% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Misc. | Cooling Central | Early | ton | 31,087 | 29% | 3.2 | 15 | \$83,632 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Misc. | Cooling Central | New | ton | 24,139 | 8.9% | 0.7 | 15 | \$40,211 | 88% | 0.0 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Misc. | Cooling Central | ROB | ton | 31,087 | 29% | 3.2 | 15 | \$40,211 | 88% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Misc. | Cooling Central | Early | ton | 53,416 | 35% | 6.5 | 15 | \$132,173 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Misc. | Cooling Central | New | ton | 39,839 | 13% | 1.7 | 15 | \$39,556 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Misc. | Cooling Central | ROB | ton | 39,839 | 13% | 1.7 | 15 | \$39,556 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Misc. | Cooling Central | Early | ton | 89,181 | 39% | 12.1 | 15 | \$187,029 | 88% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Misc. | Cooling Central | New | ton | 63,585 | 15% | 3.2 | 15 | \$33,554 | 88% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Misc. | Cooling Central | ROB | ton | 89,181 | 39% | 12.1 | 15 | \$33,554 | 88% | 0.9 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Misc. | Cooling Central | Early | ton | 15,605 | 30% | 1.6 | 15 | \$32,398 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Misc. | Cooling Central | New | ton | 12,364 | 11% | 0.5 | 15 | \$7,188 | 88% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Misc. | Cooling Central | ROB | ton | 15,605 | 30% | 1.6 | 15 | \$7,188 | 88% | 0.6 |
| FE-Penelec | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Misc. | Cooling Central | Existing | building | 2,538 | 2.2% | 0.02 | 10 | \$41,718 | 81% | 0.0 |
| FE-Penelec | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Misc. | Cooling Central | New | building | 2,538 | 2.2% | 0.02 | 10 | \$41,718 | 81% | 0.0 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Misc. | Cooling Central | Existing | building | 2,538 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.1 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Misc. | Cooling Central | New | building | 2,538 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.2 |
| FE-Penelec | Re-Commissioning (Existing Construction) | No Re-Commissioning | Misc. | Cooling Central | Existing | building | 2,538 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Misc. | Cooling Central | Existing | building | 2,538 | 14% | 0.1 | 15 | \$5,133 | 26% | 0.1 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Misc. | Cooling Central | New | building | 2,538 | 0.4% | 0.00 | 15 | \$3,937 | 94% | 0.0 |
| FE-Penelec | <65k BTU/hr 14 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Misc. | Cooling Unitary | Early | ton | 3,025 | 16% | 0.2 | 15 | \$1,545 | 29% | 0.3 |
| FE-Penelec | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Misc. | Cooling Unitary | New | ton | 2,740 | 7.1% | 0.08 | 15 | \$339 | 29% | 0.5 |
| FE-Penelec | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Misc. | Cooling Unitary | ROB | ton | 2,740 | 7.1% | 0.08 | 15 | \$339 | 29% | 0.5 |
| FE-Penelec | <65k BTU/hr 15 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Misc. | Cooling Unitary | Early | ton | 3,025 | 22% | 0.3 | 15 | \$1,821 | 30% | 0.3 |
| FE-Penelec | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Misc. | Cooling Unitary | New | ton | 2,740 | 13% | 0.1 | 15 | \$714 | 30% | 0.5 |
| FE-Penelec | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Misc. | Cooling Unitary | ROB | ton | 2,740 | 13% | 0.1 | 15 | \$714 | 30% | 0.5 |
| FE-Penelec | <65k BTU/hr 16 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Misc. | Cooling Unitary | Early | ton | 3,025 | 26% | 0.3 | 15 | \$2,098 | 31% | 0.3 |
| FE-Penelec | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Misc. | Cooling Unitary | New | ton | 2,740 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.4 |
| FE-Penelec | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Misc. | Cooling Unitary | ROB | ton | 2,740 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.4 |
| FE-Penelec | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Misc. | Cooling Unitary | Early | ton | 76,544 | 3.7% | 1.1 | 15 | \$68,066 | 56% | 0.0 |
| FE-Penelec | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Misc. | Cooling Unitary | New | ton | 77,526 | 4.9% | 1.5 | 15 | \$6,231 | 56% | 0.5 |
| FE-Penelec | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Misc. | Cooling Unitary | ROB | ton | 77,526 | 4.9% | 1.5 | 15 | \$6,231 | 56% | 0.5 |
| FE-Penelec | 135-240k min 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Misc. | Cooling Unitary | Early | ton | 18,834 | 18% | 1.3 | 15 | \$18,135 | 79% | 0.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|--|---------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Misc. | Cooling Unitary | New | ton | 17,133 | 10.0% | 0.7 | 15 | \$1,948 | 65% | 0.8 |
| FE-Penelec | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Misc. | Cooling Unitary | ROB | ton | 17,133 | 10.0% | 0.7 | 15 | \$1,948 | 79% | 0.8 |
| FE-Penelec | 240k-760k min 11 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Misc. | Cooling Unitary | Early | ton | 50,484 | 9.3% | 1.8 | 15 | \$44,809 | 66% | 0.1 |
| FE-Penelec | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Misc. | Cooling Unitary | New | ton | 50,484 | 9.3% | 1.8 | 15 | \$4,813 | 66% | 0.9 |
| FE-Penelec | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Misc. | Cooling Unitary | ROB | ton | 50,484 | 9.3% | 1.8 | 15 | \$4,813 | 66% | 0.9 |
| FE-Penelec | 65k-135k BTU/hr 12 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Misc. | Cooling Unitary | Early | ton | 11,102 | 17% | 0.7 | 15 | \$10,946 | 86% | 0.2 |
| FE-Penelec | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Misc. | Cooling Unitary | New | ton | 9,895 | 6.7% | 0.3 | 15 | \$1,392 | 86% | 0.4 |
| FE-Penelec | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Misc. | Cooling Unitary | ROB | ton | 9,895 | 6.7% | 0.3 | 15 | \$1,392 | 86% | 0.4 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Misc. | Cooling Unitary | Existing | building | 30,275 | 7.0% | 0.07 | 6 | \$12,713 | 82% | 0.0 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Misc. | Cooling Unitary | New | building | 30,275 | 7.0% | 0.07 | 6 | \$12,713 | 82% | 0.0 |
| FE-Penelec | Adding window shade film | No shade film | Misc. | Cooling Unitary | Existing | building | 30,275 | 1.3% | 0.4 | 10 | \$368 | 12% | 1.1 |
| FE-Penelec | Adding window shade film | No shade film | Misc. | Cooling Unitary | New | building | 30,275 | 1.3% | 0.4 | 10 | \$368 | 13% | 1.1 |
| FE-Penelec | Adding window shade screen | No shade screen | Misc. | Cooling Unitary | Existing | building | 30,275 | 1.1% | 0.01 | 10 | \$143 | 12% | 0.9 |
| FE-Penelec | Adding window shade screen | No shade screen | Misc. | Cooling Unitary | New | building | 30,275 | 1.1% | 0.01 | 10 | \$143 | 13% | 0.9 |
| FE-Penelec | Automated control system | Manual Controls | Misc. | Cooling Unitary | Existing | building | 30,275 | 17% | 0.2 | 15 | \$33,144 | 51% | 0.1 |
| FE-Penelec | Automated control system | Manual Controls | Misc. | Cooling Unitary | New | building | 30,275 | 17% | 0.2 | 15 | \$33,144 | 94% | 0.1 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Misc. | Cooling Unitary | Existing | building | 30,275 | 4.9% | 0.05 | 15 | \$17,130 | 71% | 0.0 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Misc. | Cooling Unitary | New | building | 30,275 | 1.7% | 0.02 | 15 | \$16,283 | 94% | 0.0 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Misc. | Cooling Unitary | Existing | building | 30,275 | 1.4% | 0.04 | 15 | \$240 | 20% | 1.1 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Misc. | Cooling Unitary | New | building | 30,275 | 1.4% | 0.04 | 15 | \$240 | 10% | 1.1 |
| FE-Penelec | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Misc. | Cooling Unitary | Existing | building | 16,651 | 13% | 0.1 | 1 | \$160 | 73% | 0.7 |
| FE-Penelec | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Misc. | Cooling Unitary | New | building | 16,651 | 13% | 0.1 | 1 | \$160 | 73% | 0.7 |
| FE-Penelec | ECM Motors for split systems | Std Shaded Pole Motor | Misc. | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.9 |
| FE-Penelec | ECM Motors for split systems | Std Shaded Pole Motor | Misc. | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.9 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Misc. | Cooling Unitary | Existing | building | 30,275 | 7.1% | 0.07 | 15 | \$134,291 | 25% | 0.0 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Misc. | Cooling Unitary | New | building | 30,275 | 7.1% | 0.07 | 15 | \$134,291 | 35% | 0.0 |
| FE-Penelec | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Misc. | Cooling Unitary | Existing | building | 30,275 | 5.0% | 0.05 | 5 | \$225 | 59% | 1.5 |
| FE-Penelec | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Misc. | Cooling Unitary | Existing | building | 30,275 | 0.5% | 0.05 | 5 | \$225 | 51% | 0.2 |
| FE-Penelec | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Misc. | Cooling Unitary | New | building | 30,275 | 0.5% | 0.05 | 5 | \$135 | 51% | 0.4 |
| FE-Penelec | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Misc. | Cooling Unitary | Existing | building | 30,275 | 2.2% | 0.02 | 10 | \$44,835 | 86% | 0.0 |
| FE-Penelec | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Misc. | Cooling Unitary | New | building | 30,275 | 2.2% | 0.02 | 10 | \$44,835 | 86% | 0.0 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) | Misc. | Cooling Unitary | Existing | building | 30,275 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.9 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Misc. | Cooling Unitary | New | building | 30,275 | 1.7% | 0.02 | 11 | \$146 | 49% | 1.5 |
| FE-Penelec | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Misc. | Cooling Unitary | Early | unit | 118 | 19% | 0.05 | 15 | \$849 | 85% | 0.1 |
| FE-Penelec | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Misc. | Cooling Unitary | New | unit | 119 | 20% | 0.06 | 15 | \$356 | 85% | 0.2 |
| FE-Penelec | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Misc. | Cooling Unitary | ROB | unit | 119 | 20% | 0.06 | 15 | \$356 | 85% | 0.2 |
| FE-Penelec | Re-Commissioning (Existing Construction) | No Re-Commissioning | Misc. | Cooling Unitary | Existing | building | 30,275 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.1 |
| FE-Penelec | Room AC (w/ louvered sides) | Existing efficiency Room AC in Pennsylvania (2000 Federal Standards) | Misc. | Cooling Unitary | Early | ton | 1,097 | 13% | 0.05 | 9 | \$348 | 82% | 0.2 |
| FE-Penelec | Room AC (w/ louvered sides) | Std Room AC (Code Min. Federal Standards) | Misc. | Cooling Unitary | New | ton | 994 | 4.5% | 0.02 | 9 | \$17 | 82% | 1.5 |
| FE-Penelec | Room AC (w/ louvered sides) | Std Room AC (Code Min. Federal Standards) | Misc. | Cooling Unitary | ROB | ton | 994 | 4.5% | 0.02 | 9 | \$17 | 82% | 1.5 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Misc. | Cooling Unitary | Existing | building | 30,275 | 14% | 0.1 | 15 | \$5,133 | 26% | 0.5 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Misc. | Cooling Unitary | New | building | 30,275 | 0.4% | 0.00 | 15 | \$3,937 | 94% | 0.0 |
| FE-Penelec | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Misc. | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 1.1 |
| FE-Penelec | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Misc. | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.4 |
| FE-Penelec | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Misc. | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.4 |
| FE-Penelec | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Misc. | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 0% | 0.2 |
| FE-Penelec | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Misc. | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-Penelec | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Misc. | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-Penelec | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Misc. | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 53% | 0.3 |
| FE-Penelec | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Misc. | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 53% | 0.2 |
| FE-Penelec | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Misc. | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 53% | 2.8 |
| FE-Penelec | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Misc. | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 53% | 2.1 |
| FE-Penelec | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Misc. | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 53% | 2.8 |
| FE-Penelec | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Misc. | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 53% | 2.1 |
| FE-Penelec | Photocell Controls (Outdoor) | Lighting w/ No Controls | Misc. | Ext. Lighting | Existing | building | 465 | 28% | 0.3 | 8 | \$4,908 | 88% | 0.0 |
| FE-Penelec | Photocell Controls (Outdoor) | Lighting w/ No Controls | Misc. | Ext. Lighting | New | building | 465 | 28% | 0.3 | 8 | \$4,908 | 0% | 0.0 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Misc. | Heat Pump | Existing | building | 2,581 | 6.9% | 0.07 | 6 | \$12,713 | 82% | 0.0 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Misc. | Heat Pump | New | building | 2,581 | 6.9% | 0.07 | 6 | \$12,713 | 82% | 0.0 |
| FE-Penelec | Adding window shade film | No shade film | Misc. | Heat Pump | Existing | building | 2,581 | 3.9% | 0.4 | 10 | \$31 | 12% | 9.4 |
| FE-Penelec | Adding window shade film | No shade film | Misc. | Heat Pump | New | building | 2,581 | 3.9% | 0.4 | 10 | \$31 | 12% | 9.4 |
| FE-Penelec | Adding window shade screen | No shade screen | Misc. | Heat Pump | Existing | building | 2,581 | 0.3% | 0.01 | 10 | \$4.0 | 12% | 2.5 |
| FE-Penelec | Adding window shade screen | No shade screen | Misc. | Heat Pump | New | building | 2,581 | 0.3% | 0.01 | 10 | \$4.0 | 12% | 2.5 |
| FE-Penelec | Automated control system | Manual Controls | Misc. | Heat Pump | Existing | building | 2,581 | 17% | 0.2 | 15 | \$2,826 | 51% | 0.1 |
| FE-Penelec | Automated control system | Manual Controls | Misc. | Heat Pump | New | building | 2,581 | 17% | 0.2 | 15 | \$2,826 | 94% | 0.1 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Misc. | Heat Pump | Existing | building | 2,581 | 4.9% | 0.05 | 15 | \$17,130 | 71% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|--|--|---------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Misc. | Heat Pump | New | building | 2,581 | 1.7% | 0.02 | 15 | \$16,283 | 94% | 0.0 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Misc. | Heat Pump | Existing | building | 2,581 | 4.0% | 0.04 | 15 | \$21 | 12% | 4.3 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Misc. | Heat Pump | New | building | 2,581 | 4.0% | 0.04 | 15 | \$21 | 6% | 4.3 |
| FE-Penelec | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Misc. | Heat Pump | Early | heat pump | 2,281 | 12% | 0.02 | 15 | \$4,070 | 83% | 0.0 |
| FE-Penelec | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Misc. | Heat Pump | New | heat pump | 2,182 | 7.8% | 0.01 | 15 | \$1,097 | 83% | 0.1 |
| FE-Penelec | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Misc. | Heat Pump | ROB | heat pump | 2,182 | 7.8% | 0.01 | 15 | \$1,097 | 83% | 0.1 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Misc. | Heat Pump | Existing | building | 2,581 | 7.0% | 0.07 | 15 | \$11,449 | 25% | 0.0 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Misc. | Heat Pump | New | building | 2,581 | 7.0% | 0.07 | 15 | \$11,449 | 35% | 0.0 |
| FE-Penelec | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Misc. | Heat Pump | Early | heat pump | 23,080 | 16% | 0.3 | 15 | \$91,117 | 19% | 0.0 |
| FE-Penelec | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Misc. | Heat Pump | New | heat pump | 22,288 | 13% | 0.2 | 15 | \$33,927 | 19% | 0.0 |
| FE-Penelec | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Misc. | Heat Pump | ROB | heat pump | 22,288 | 13% | 0.2 | 15 | \$33,927 | 19% | 0.0 |
| FE-Penelec | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Misc. | Heat Pump | Early | heat pump | 23,080 | 16% | 0.3 | 15 | \$58,356 | 19% | 0.0 |
| FE-Penelec | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Misc. | Heat Pump | New | heat pump | 22,288 | 13% | 0.2 | 15 | \$1,167 | 19% | 1.4 |
| FE-Penelec | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Misc. | Heat Pump | ROB | heat pump | 22,288 | 13% | 0.2 | 15 | \$1,167 | 19% | 1.4 |
| FE-Penelec | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Misc. | Heat Pump | Early | heat pump | 5,997 | 16% | 0.08 | 12 | \$4,298 | 81% | 0.1 |
| FE-Penelec | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Misc. | Heat Pump | New | heat pump | 5,732 | 12% | 0.06 | 12 | \$852 | 81% | 0.4 |
| FE-Penelec | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Misc. | Heat Pump | ROB | heat pump | 5,732 | 12% | 0.06 | 12 | \$852 | 81% | 0.4 |
| FE-Penelec | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Misc. | Heat Pump | Existing | building | 2,581 | 5.0% | 0.01 | 5 | \$90 | 51% | 0.3 |
| FE-Penelec | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Misc. | Heat Pump | New | building | 2,581 | 5.0% | 0.01 | 5 | \$90 | 51% | 0.3 |
| FE-Penelec | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Misc. | Heat Pump | Existing | building | 2,581 | 2.2% | 0.02 | 10 | \$39,918 | 81% | 0.0 |
| FE-Penelec | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Misc. | Heat Pump | New | building | 2,581 | 2.2% | 0.02 | 10 | \$39,918 | 81% | 0.0 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Misc. | Heat Pump | Existing | building | 2,581 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.1 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Misc. | Heat Pump | New | building | 2,581 | 2.1% | 0.02 | 11 | \$146 | 49% | 0.2 |
| FE-Penelec | Re-Commissioning (Existing Construction) | No Re-Commissioning | Misc. | Heat Pump | Existing | building | 2,581 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Misc. | Heat Pump | Existing | building | 2,581 | 14% | 0.1 | 15 | \$5,133 | 26% | 0.1 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Misc. | Heat Pump | New | building | 2,581 | 0.4% | 0.00 | 15 | \$3,937 | 94% | 0.0 |
| FE-Penelec | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Misc. | Heat Pump | Early | heat pump | 9,669 | 35% | 0.3 | 15 | \$35,347 | 28% | 0.1 |
| FE-Penelec | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Misc. | Heat Pump | New | heat pump | 9,219 | 32% | 0.3 | 15 | \$15,739 | 28% | 0.1 |
| FE-Penelec | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Misc. | Heat Pump | ROB | heat pump | 9,219 | 32% | 0.3 | 15 | \$15,739 | 28% | 0.1 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Misc. | High Bay Lighting | Early | Fixture | 596 | 9.6% | 0.01 | 13 | \$850 | 39% | 0.0 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Misc. | High Bay Lighting | Early | Fixture | 595 | 9.5% | 0.01 | 13 | \$850 | 28% | 0.0 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Misc. | High Bay Lighting | Early | Fixture | 919 | 41% | 0.09 | 13 | \$850 | 36% | 0.3 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Misc. | High Bay Lighting | New | Fixture | 453 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Misc. | High Bay Lighting | New | Fixture | 422 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Misc. | High Bay Lighting | New | Fixture | 699 | 41% | 0.07 | 13 | \$397 | 36% | 0.5 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Misc. | High Bay Lighting | ROB | Fixture | 596 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Misc. | High Bay Lighting | ROB | Fixture | 555 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Misc. | High Bay Lighting | ROB | Fixture | 919 | 41% | 0.09 | 13 | \$397 | 36% | 0.6 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Misc. | High Bay Lighting | Early | Fixture | 1,157 | 19% | 0.05 | 13 | \$851 | 38% | 0.2 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Misc. | High Bay Lighting | Early | Fixture | 1,171 | 20% | 0.06 | 13 | \$851 | 38% | 0.2 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | Early | Fixture | 3,407 | 73% | 0.6 | 13 | \$851 | 38% | 1.9 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Misc. | High Bay Lighting | New | Fixture | 879 | 19% | 0.04 | 13 | \$372 | 38% | 0.3 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | New | Fixture | 2,590 | 73% | 0.5 | 13 | \$383 | 38% | 3.3 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Misc. | High Bay Lighting | ROB | Fixture | 1,157 | 19% | 0.05 | 13 | \$372 | 38% | 0.4 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | ROB | Fixture | 3,407 | 73% | 0.6 | 13 | \$383 | 38% | 4.3 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Misc. | High Bay Lighting | Early | Fixture | 1,157 | 25% | 0.07 | 13 | \$554 | 29% | 0.3 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Misc. | High Bay Lighting | Early | Fixture | 1,136 | 23% | 0.06 | 13 | \$554 | 28% | 0.3 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | Early | Fixture | 3,407 | 74% | 0.6 | 13 | \$554 | 36% | 3.1 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Misc. | High Bay Lighting | New | Fixture | 879 | 25% | 0.05 | 13 | \$75 | 29% | 1.9 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | New | Fixture | 2,590 | 74% | 0.5 | 13 | \$86 | 36% | 15.1 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Misc. | High Bay Lighting | ROB | Fixture | 1,157 | 25% | 0.07 | 13 | \$75 | 29% | 2.6 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | ROB | Fixture | 3,407 | 74% | 0.6 | 13 | \$86 | 36% | 19.8 |
| FE-Penelec | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Misc. | High Bay Lighting | Early | Fixture | 302 | 0.2% | 0.00 | 13 | \$835 | 38% | 0.0 |
| FE-Penelec | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Misc. | High Bay Lighting | Early | Fixture | 650 | 54% | 0.09 | 13 | \$835 | 38% | 0.3 |
| FE-Penelec | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Misc. | High Bay Lighting | New | Fixture | 494 | 54% | 0.06 | 13 | \$382 | 38% | 0.5 |
| FE-Penelec | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Misc. | High Bay Lighting | ROB | Fixture | 650 | 54% | 0.09 | 13 | \$382 | 38% | 0.6 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Misc. | High Bay Lighting | Early | Fixture | 1,474 | 18% | 0.07 | 13 | \$487 | 25% | 0.4 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Misc. | High Bay Lighting | Early | Fixture | 1,541 | 22% | 0.08 | 13 | \$487 | 28% | 0.5 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | Early | Fixture | 3,407 | 65% | 0.5 | 13 | \$487 | 36% | 3.0 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Misc. | High Bay Lighting | New | Fixture | 1,120 | 18% | 0.05 | 13 | \$16 | 25% | 8.4 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | New | Fixture | 2,590 | 65% | 0.4 | 13 | \$18 | 36% | 61.0 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Misc. | High Bay Lighting | ROB | Fixture | 1,474 | 18% | 0.07 | 13 | \$16 | 25% | 11.1 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | ROB | Fixture | 3,407 | 65% | 0.5 | 13 | \$18 | 36% | 80.2 |
| FE-Penelec | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Misc. | High Bay Lighting | Early | Fixture | 1,474 | 1.5% | 0.01 | 13 | \$557 | 19% | 0.0 |
| FE-Penelec | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Misc. | High Bay Lighting | Early | Fixture | 1,517 | 4.3% | 0.02 | 13 | \$557 | 19% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|---|---------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | Early | Fixture | 3,407 | 57% | 0.5 | 13 | \$557 | 19% | 2.4 |
| FE-Penelec | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Misc. | High Bay Lighting | New | Fixture | 1,120 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| FE-Penelec | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | New | Fixture | 2,590 | 57% | 0.4 | 13 | \$88 | 19% | 11.3 |
| FE-Penelec | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Misc. | High Bay Lighting | ROB | Fixture | 1,474 | 1.5% | 0.01 | 13 | \$86 | 19% | 0.2 |
| FE-Penelec | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | ROB | Fixture | 3,407 | 57% | 0.5 | 13 | \$88 | 19% | 14.8 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Misc. | High Bay Lighting | Early | Fixture | 626 | 29% | 0.03 | 13 | \$492 | 71% | 0.2 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Misc. | High Bay Lighting | Early | Fixture | 523 | 15% | 0.01 | 13 | \$492 | 95% | 0.1 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Misc. | High Bay Lighting | Early | Fixture | 777 | 43% | 0.06 | 13 | \$492 | 95% | 0.4 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Misc. | High Bay Lighting | Early | Fixture | 721 | 38% | 0.05 | 13 | \$492 | 95% | 0.3 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Misc. | High Bay Lighting | New | Fixture | 398 | 15% | 0.01 | 13 | \$25 | 95% | 1.5 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Misc. | High Bay Lighting | New | Fixture | 591 | 43% | 0.04 | 13 | \$51 | 95% | 3.0 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Misc. | High Bay Lighting | ROB | Fixture | 523 | 15% | 0.01 | 13 | \$25 | 95% | 1.9 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Misc. | High Bay Lighting | ROB | Fixture | 777 | 43% | 0.06 | 13 | \$51 | 95% | 3.9 |
| FE-Penelec | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Misc. | High Bay Lighting | Early | lamp | 104 | 16% | 0.00 | 10 | \$7.7 | 99% | 1.1 |
| FE-Penelec | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Misc. | High Bay Lighting | New | lamp | 62 | 13% | 0.00 | 10 | \$1.6 | 91% | 2.4 |
| FE-Penelec | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Misc. | High Bay Lighting | ROB | lamp | 99 | 13% | 0.00 | 10 | \$1.6 | 91% | 3.9 |
| FE-Penelec | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Misc. | High Bay Lighting | Early | Fixture | 3,487 | 23% | 0.2 | 13 | \$613 | 5% | 0.9 |
| FE-Penelec | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Misc. | High Bay Lighting | Early | Fixture | 2,739 | 1.6% | 0.01 | 13 | \$613 | 28% | 0.0 |
| FE-Penelec | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | Early | Fixture | 6,815 | 60% | 1.0 | 13 | \$613 | 18% | 4.5 |
| FE-Penelec | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Misc. | High Bay Lighting | New | Fixture | 2,650 | 23% | 0.1 | 13 | \$96 | 5% | 4.2 |
| FE-Penelec | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Misc. | High Bay Lighting | ROB | Fixture | 3,487 | 23% | 0.2 | 13 | \$96 | 5% | 5.5 |
| FE-Penelec | Auto Off Time Switch | Lighting w/ No Controls | Misc. | High Bay Lighting | Existing | building | 2,630 | 24% | 0.2 | 8 | \$997 | 13% | 0.3 |
| FE-Penelec | Auto Off Time Switch | Lighting w/ No Controls | Misc. | High Bay Lighting | New | building | 2,630 | 6.9% | 0.07 | 8 | \$997 | 0% | 0.1 |
| FE-Penelec | Central Lighting Control System | Lighting w/ No Controls | Misc. | High Bay Lighting | Existing | building | 2,630 | 38% | 0.4 | 8 | \$997 | 13% | 0.5 |
| FE-Penelec | Central Lighting Control System | Lighting w/ No Controls | Misc. | High Bay Lighting | New | building | 2,630 | 14% | 0.1 | 8 | \$997 | 13% | 0.2 |
| FE-Penelec | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Misc. | High Bay Lighting | New | building | 2,630 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.0 |
| FE-Penelec | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Misc. | High Bay Lighting | New | building | 2,630 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |
| FE-Penelec | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Misc. | High Bay Lighting | New | building | 2,630 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| FE-Penelec | Indoor Daylight Sensors | Lighting w/ No Controls | Misc. | High Bay Lighting | Existing | building | 2,630 | 28% | 0.3 | 8 | \$4,908 | 13% | 0.1 |
| FE-Penelec | Indoor Daylight Sensors | Lighting w/ No Controls | Misc. | High Bay Lighting | New | building | 2,630 | 4.0% | 0.04 | 8 | \$4,908 | 0% | 0.0 |
| FE-Penelec | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Misc. | High Bay Lighting | Early | Fixture | 3,487 | 92% | 0.8 | 13 | \$1,916 | 95% | 1.1 |
| FE-Penelec | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | Early | Fixture | 6,815 | 96% | 1.6 | 13 | \$1,916 | 95% | 2.3 |
| FE-Penelec | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Misc. | High Bay Lighting | New | Fixture | 2,650 | 92% | 0.6 | 13 | \$1,468 | 95% | 1.1 |
| FE-Penelec | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | New | Fixture | 5,179 | 96% | 1.2 | 13 | \$1,149 | 95% | 2.9 |
| FE-Penelec | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Misc. | High Bay Lighting | ROB | Fixture | 3,487 | 92% | 0.8 | 13 | \$1,468 | 95% | 1.5 |
| FE-Penelec | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | ROB | Fixture | 6,815 | 96% | 1.6 | 13 | \$1,149 | 95% | 3.8 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Misc. | High Bay Lighting | Early | Fixture | 1,157 | 67% | 0.2 | 13 | \$960 | 95% | 0.5 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Misc. | High Bay Lighting | Early | Fixture | 3,407 | 89% | 0.7 | 13 | \$960 | 95% | 2.1 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Misc. | High Bay Lighting | Early | Fixture | 935 | 59% | 0.1 | 13 | \$960 | 95% | 0.4 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Misc. | High Bay Lighting | New | Fixture | 879 | 67% | 0.1 | 13 | \$480 | 95% | 0.8 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Misc. | High Bay Lighting | New | Fixture | 2,590 | 89% | 0.6 | 13 | \$491 | 95% | 3.1 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Misc. | High Bay Lighting | New | Fixture | 711 | 59% | 0.1 | 13 | \$406 | 95% | 0.7 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Misc. | High Bay Lighting | ROB | Fixture | 1,157 | 67% | 0.2 | 13 | \$480 | 95% | 1.1 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Misc. | High Bay Lighting | ROB | Fixture | 3,407 | 89% | 0.7 | 13 | \$491 | 95% | 4.1 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Misc. | High Bay Lighting | ROB | Fixture | 935 | 59% | 0.1 | 13 | \$406 | 95% | 0.9 |
| FE-Penelec | Occupancy Sensor | Lighting w/ No Controls | Misc. | High Bay Lighting | Existing | building | 2,630 | 24% | 0.2 | 8 | \$1,503 | 12% | 0.2 |
| FE-Penelec | Occupancy Sensor | Lighting w/ No Controls | Misc. | High Bay Lighting | New | building | 2,630 | 6.9% | 0.07 | 8 | \$1,503 | 0% | 0.1 |
| FE-Penelec | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Misc. | High Bay Lighting | Existing | building | 2,630 | 28% | 0.3 | 8 | \$4,908 | 12% | 0.1 |
| FE-Penelec | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Misc. | High Bay Lighting | New | building | 2,630 | 4.0% | 0.04 | 8 | \$4,908 | 0% | 0.0 |
| FE-Penelec | Time Clock Control | Lighting w/ No Controls | Misc. | High Bay Lighting | Existing | building | 2,630 | 28% | 0.3 | 8 | \$997 | 13% | 0.4 |
| FE-Penelec | Time Clock Control | Lighting w/ No Controls | Misc. | High Bay Lighting | New | building | 2,630 | 4.0% | 0.04 | 8 | \$997 | 0% | 0.1 |
| FE-Penelec | Auto Off Time Switch | Lighting w/ No Controls | Misc. | Lin. Fluor. Lighting | Existing | building | 21,892 | 24% | 0.2 | 8 | \$997 | 13% | 1.8 |
| FE-Penelec | Auto Off Time Switch | Lighting w/ No Controls | Misc. | Lin. Fluor. Lighting | New | building | 21,892 | 7.0% | 0.07 | 8 | \$997 | 0% | 0.5 |
| FE-Penelec | Central Lighting Control System | Lighting w/ No Controls | Misc. | Lin. Fluor. Lighting | Existing | building | 21,892 | 38% | 0.4 | 8 | \$997 | 12% | 2.8 |
| FE-Penelec | Central Lighting Control System | Lighting w/ No Controls | Misc. | Lin. Fluor. Lighting | New | building | 21,892 | 14% | 0.1 | 8 | \$997 | 12% | 1.0 |
| FE-Penelec | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Misc. | Lin. Fluor. Lighting | New | building | 21,892 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.0 |
| FE-Penelec | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Misc. | Lin. Fluor. Lighting | New | building | 21,892 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |
| FE-Penelec | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Misc. | Lin. Fluor. Lighting | New | building | 21,892 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| FE-Penelec | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Misc. | Lin. Fluor. Lighting | Early | Lamp | 208 | 38% | 0.01 | 10 | \$7.3 | 94% | 5.3 |
| FE-Penelec | Indoor Daylight Sensors | Lighting w/ No Controls | Misc. | Lin. Fluor. Lighting | Existing | building | 21,892 | 28% | 0.3 | 8 | \$4,908 | 13% | 0.4 |
| FE-Penelec | Indoor Daylight Sensors | Lighting w/ No Controls | Misc. | Lin. Fluor. Lighting | New | building | 21,892 | 4.1% | 0.04 | 8 | \$4,908 | 0% | 0.1 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | Early | Lamp | 73 | 19% | 0.00 | 15 | \$35 | 94% | 0.3 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 40W T12 Lamp, Magnetic Ballast | Misc. | Lin. Fluor. Lighting | Early | Lamp | 161 | 63% | 0.03 | 15 | \$35 | 94% | 2.2 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | Early | Lamp | 90 | 34% | 0.01 | 15 | \$35 | 94% | 0.7 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | Early | Lamp | 87 | 32% | 0.01 | 15 | \$35 | 94% | 0.6 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | New | Lamp | 56 | 19% | 0.00 | 15 | \$28 | 94% | 0.3 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | New | Lamp | 66 | 32% | 0.01 | 15 | \$29 | 94% | 0.6 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | New | Lamp | 68 | 34% | 0.01 | 15 | \$22 | 94% | 0.8 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | New | Lamp | 66 | 32% | 0.01 | 15 | \$29 | 94% | 0.6 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | ROB | Lamp | 73 | 19% | 0.00 | 15 | \$28 | 94% | 0.4 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | ROB | Lamp | 87 | 32% | 0.01 | 15 | \$29 | 94% | 0.7 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|--|--|---------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | ROB | Lamp | 90 | 34% | 0.01 | 15 | \$22 | 94% | 1.1 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | ROB | Lamp | 87 | 32% | 0.01 | 15 | \$29 | 94% | 0.7 |
| FE-Penelec | Occupancy Sensor | Lighting w/ No Controls | Misc. | Lin. Fluor. Lighting | Existing | building | 21,892 | 24% | 0.2 | 8 | \$1,503 | 13% | 1.2 |
| FE-Penelec | Occupancy Sensor | Lighting w/ No Controls | Misc. | Lin. Fluor. Lighting | New | building | 21,892 | 7.0% | 0.07 | 8 | \$1,503 | 0% | 0.3 |
| FE-Penelec | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Misc. | Lin. Fluor. Lighting | Existing | building | 21,892 | 28% | 0.3 | 8 | \$4,908 | 12% | 0.4 |
| FE-Penelec | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Misc. | Lin. Fluor. Lighting | New | building | 21,892 | 4.1% | 0.04 | 8 | \$4,908 | 0% | 0.1 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 40W T12 w/ Magnetic Ballast | Misc. | Lin. Fluor. Lighting | Early | Lamp | 208 | 54% | 0.02 | 10 | \$9.1 | 94% | 6.0 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | Early | Lamp | 133 | 28% | 0.01 | 10 | \$9.1 | 24% | 2.0 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | Early | Lamp | 129 | 26% | 0.01 | 10 | \$9.1 | 94% | 1.8 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | New | Lamp | 98 | 26% | 0.00 | 10 | \$2.5 | 94% | 4.9 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | New | Lamp | 98 | 26% | 0.00 | 10 | \$2.5 | 94% | 4.9 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | New | Lamp | 101 | 28% | 0.00 | 10 | \$2.5 | 24% | 5.5 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | New | Lamp | 98 | 26% | 0.00 | 10 | \$2.5 | 94% | 4.9 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | ROB | Lamp | 129 | 26% | 0.01 | 10 | \$2.5 | 94% | 6.4 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | ROB | Lamp | 129 | 26% | 0.01 | 10 | \$2.5 | 94% | 6.4 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | ROB | Lamp | 133 | 28% | 0.01 | 10 | \$2.5 | 24% | 7.3 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | ROB | Lamp | 129 | 26% | 0.01 | 10 | \$2.5 | 94% | 6.4 |
| FE-Penelec | T8 Lamp (any length) Electronic Ballast | Standard T12 lamp (any length) | Misc. | Lin. Fluor. Lighting | Early | Lamp | 245 | 42% | 0.02 | 10 | \$14 | 94% | 3.6 |
| FE-Penelec | Time Clock Control | Lighting w/ No Controls | Misc. | Lin. Fluor. Lighting | Existing | building | 21,892 | 28% | 0.3 | 8 | \$997 | 14% | 2.1 |
| FE-Penelec | Time Clock Control | Lighting w/ No Controls | Misc. | Lin. Fluor. Lighting | New | building | 21,892 | 4.1% | 0.04 | 8 | \$997 | 0% | 0.3 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | Early | motor | 3,459 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | Early | motor | 3,459 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | Early | motor | 3,459 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | Early | motor | 3,459 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | New | motor | 3,354 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | New | motor | 3,354 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | New | motor | 3,354 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 3,354 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 3,354 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 3,354 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 3,354 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 3,354 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 3,354 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-Penelec | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | Early | motor | 5,101 | 3.1% | 0.02 | 15 | \$402 | 76% | 0.2 |
| FE-Penelec | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | Early | motor | 5,101 | 3.1% | 0.02 | 15 | \$402 | 76% | 0.2 |
| FE-Penelec | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | Early | motor | 5,101 | 3.1% | 0.02 | 15 | \$402 | 76% | 0.2 |
| FE-Penelec | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | Early | motor | 5,101 | 3.1% | 0.02 | 15 | \$402 | 76% | 0.2 |
| FE-Penelec | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | New | motor | 4,972 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.3 |
| FE-Penelec | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | New | motor | 4,972 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.3 |
| FE-Penelec | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | New | motor | 4,972 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.3 |
| FE-Penelec | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | New | motor | 4,972 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.3 |
| FE-Penelec | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 4,972 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.3 |
| FE-Penelec | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 4,972 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.3 |
| FE-Penelec | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 4,972 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.3 |
| FE-Penelec | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 4,972 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.3 |
| FE-Penelec | 100 HP Motor, Ultra-PE | 100 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | Early | motor | 304,176 | 1.7% | 0.7 | 15 | \$5,100 | 47% | 0.6 |
| FE-Penelec | 100 HP Motor, Ultra-PE | 100 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | Early | motor | 304,176 | 1.7% | 0.7 | 15 | \$5,100 | 47% | 0.6 |
| FE-Penelec | 100 HP Motor, Ultra-PE | 100 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | Early | motor | 304,176 | 1.7% | 0.7 | 15 | \$5,100 | 47% | 0.6 |
| FE-Penelec | 100 HP Motor, Ultra-PE | 100 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | Early | motor | 304,176 | 1.7% | 0.8 | 15 | \$5,100 | 47% | 0.7 |
| FE-Penelec | 100 HP Motor, Ultra-PE | 100 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | Early | motor | 304,176 | 1.7% | 0.7 | 15 | \$5,100 | 47% | 0.6 |
| FE-Penelec | 100 HP Motor, Ultra-PE | 100 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | New | motor | 300,570 | 0.5% | 0.2 | 15 | \$658 | 47% | 1.5 |
| FE-Penelec | 100 HP Motor, Ultra-PE | 100 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | New | motor | 300,570 | 0.5% | 0.2 | 15 | \$658 | 47% | 1.5 |
| FE-Penelec | 100 HP Motor, Ultra-PE | 100 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | New | motor | 300,570 | 0.5% | 0.2 | 15 | \$658 | 47% | 1.5 |
| FE-Penelec | 100 HP Motor, Ultra-PE | 100 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | New | motor | 300,570 | 0.5% | 0.2 | 15 | \$658 | 47% | 1.6 |
| FE-Penelec | 100 HP Motor, Ultra-PE | 100 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | New | motor | 300,570 | 0.5% | 0.2 | 15 | \$658 | 47% | 1.5 |
| FE-Penelec | 100 HP Motor, Ultra-PE | 100 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 300,570 | 0.5% | 0.2 | 15 | \$658 | 47% | 1.5 |
| FE-Penelec | 100 HP Motor, Ultra-PE | 100 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 300,570 | 0.5% | 0.2 | 15 | \$658 | 47% | 1.5 |
| FE-Penelec | 100 HP Motor, Ultra-PE | 100 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 300,570 | 0.5% | 0.2 | 15 | \$658 | 47% | 1.5 |
| FE-Penelec | 100 HP Motor, Ultra-PE | 100 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 300,570 | 0.5% | 0.2 | 15 | \$658 | 47% | 1.6 |
| FE-Penelec | 100 HP Motor, Ultra-PE | 100 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 300,570 | 0.5% | 0.2 | 15 | \$658 | 47% | 1.5 |
| FE-Penelec | 125 HP Motor, Ultra-PE | 125 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | Early | motor | 378,822 | 1.3% | 0.7 | 15 | \$5,935 | 47% | 0.5 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|--|---------|---------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Misc. | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 22.8 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Misc. | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 23.2 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Misc. | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 23.5 |
| FE-Penelec | Escalator Motor Controller | Constant power control | Misc. | Motors | New | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 45% | 5.9 |
| FE-Penelec | Escalator Motor Controller | Constant power control | Misc. | Motors | ROB | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 45% | 5.9 |
| FE-Penelec | Variable Speed Drive Control, 15HP | Existing Motors w/out VSD Drive | Misc. | Motors | Early | motor | 47,265 | 70% | 4.9 | 15 | \$731 | 86% | 30.2 |
| FE-Penelec | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Misc. | Motors | New | motor | 46,249 | 72% | 4.9 | 15 | \$731 | 86% | 30.3 |
| FE-Penelec | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Misc. | Motors | ROB | motor | 46,249 | 72% | 4.9 | 15 | \$731 | 86% | 30.3 |
| FE-Penelec | Variable Speed Drive Control, 40HP | Existing Motors w/out VSD Drive | Misc. | Motors | Early | motor | 123,331 | 71% | 12.8 | 15 | \$4,666 | 86% | 12.5 |
| FE-Penelec | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Misc. | Motors | New | motor | 121,889 | 72% | 12.8 | 15 | \$4,666 | 86% | 12.5 |
| FE-Penelec | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Misc. | Motors | ROB | motor | 121,889 | 72% | 12.8 | 15 | \$4,666 | 86% | 12.5 |
| FE-Penelec | Variable Speed Drive Control, 5HP | Existing Motors w/out VFD Drive | Misc. | Motors | Early | motor | 16,385 | 70% | 1.7 | 15 | \$2,243 | 86% | 3.4 |
| FE-Penelec | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Misc. | Motors | New | motor | 16,019 | 72% | 1.7 | 15 | \$2,243 | 86% | 3.4 |
| FE-Penelec | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Misc. | Motors | ROB | motor | 16,019 | 72% | 1.7 | 15 | \$2,243 | 86% | 3.4 |
| FE-Penelec | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Misc. | Motors | Early | motor | 4,943 | 23% | 0.1 | 15 | \$268 | 13% | 2.6 |
| FE-Penelec | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Misc. | Motors | New | motor | 4,943 | 23% | 0.1 | 15 | \$268 | 13% | 2.6 |
| FE-Penelec | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Misc. | Motors | ROB | motor | 4,943 | 23% | 0.1 | 15 | \$268 | 13% | 2.6 |
| FE-Penelec | VFD on Chilled Water Pump | Motor w/out VFD Drive | Misc. | Motors | Early | motor | 15,151 | 54% | 1.1 | 15 | \$2,903 | 86% | 1.8 |
| FE-Penelec | VFD on Chilled Water Pump | Motor w/out VFD Drive | Misc. | Motors | New | motor | 14,867 | 55% | 1.1 | 15 | \$2,843 | 86% | 1.8 |
| FE-Penelec | VFD on Chilled Water Pump | Motor w/out VFD Drive | Misc. | Motors | ROB | motor | 14,867 | 55% | 1.1 | 15 | \$2,843 | 86% | 1.8 |
| FE-Penelec | VFD on Condenser Water Pump | Motor w/out VFD Drive | Misc. | Motors | Early | motor | 15,040 | 32% | 0.6 | 15 | \$2,903 | 86% | 1.1 |
| FE-Penelec | VFD on Condenser Water Pump | Motor w/out VFD Drive | Misc. | Motors | New | motor | 14,759 | 33% | 0.6 | 15 | \$2,843 | 86% | 1.1 |
| FE-Penelec | VFD on Condenser Water Pump | Motor w/out VFD Drive | Misc. | Motors | ROB | motor | 14,759 | 33% | 0.6 | 15 | \$2,843 | 86% | 1.1 |
| FE-Penelec | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Misc. | Motors | Early | motor | 31,171 | 56% | 2.3 | 15 | \$2,903 | 86% | 3.8 |
| FE-Penelec | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Misc. | Motors | New | motor | 30,588 | 57% | 2.3 | 15 | \$2,843 | 86% | 3.8 |
| FE-Penelec | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Misc. | Motors | ROB | motor | 30,588 | 57% | 2.3 | 15 | \$2,843 | 86% | 3.8 |
| FE-Penelec | VFD on HVAC Fan | Motor w/out VFD | Misc. | Motors | Early | motor | 15,151 | 70% | 1.6 | 15 | \$2,903 | 86% | 2.4 |
| FE-Penelec | VFD on HVAC Fan | Motor w/out VFD | Misc. | Motors | New | motor | 14,867 | 72% | 1.6 | 15 | \$2,843 | 86% | 2.5 |
| FE-Penelec | VFD on HVAC Fan | Motor w/out VFD | Misc. | Motors | ROB | motor | 14,867 | 72% | 1.6 | 15 | \$2,843 | 86% | 2.5 |
| FE-Penelec | Variable Speed Drives on Process Equipment | Constant speed control | Misc. | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 9% | 10.6 |
| FE-Penelec | Variable Speed Drives on Process Equipment | Constant speed control | Misc. | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 9% | 10.6 |
| FE-Penelec | Auto Off Time Switch | Lighting w/ No Controls | Misc. | Other Int. Lighting | Existing | building | 9,061 | 24% | 0.2 | 8 | \$997 | 13% | 0.8 |
| FE-Penelec | Auto Off Time Switch | Lighting w/ No Controls | Misc. | Other Int. Lighting | New | building | 9,061 | 7.0% | 0.07 | 8 | \$997 | 0% | 0.2 |
| FE-Penelec | Central Lighting Control System | Lighting w/ No Controls | Misc. | Other Int. Lighting | Existing | building | 9,061 | 38% | 0.4 | 8 | \$997 | 13% | 1.3 |
| FE-Penelec | Central Lighting Control System | Lighting w/ No Controls | Misc. | Other Int. Lighting | New | building | 9,061 | 14% | 0.1 | 8 | \$997 | 13% | 0.5 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 40W Incandescent Bulb | Misc. | Other Int. Lighting | Early | lamp | 169 | 87% | 0.04 | 9 | \$30 | 14% | 2.5 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Misc. | Other Int. Lighting | Early | lamp | 121 | 81% | 0.02 | 9 | \$30 | 11% | 1.7 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Misc. | Other Int. Lighting | New | lamp | 92 | 81% | 0.02 | 9 | \$21 | 14% | 1.8 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Misc. | Other Int. Lighting | New | lamp | 92 | 81% | 0.02 | 9 | \$23 | 14% | 1.7 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Misc. | Other Int. Lighting | New | lamp | 92 | 81% | 0.02 | 9 | \$22 | 11% | 1.7 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Misc. | Other Int. Lighting | ROB | lamp | 121 | 81% | 0.02 | 9 | \$21 | 14% | 2.3 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Misc. | Other Int. Lighting | ROB | lamp | 121 | 81% | 0.02 | 9 | \$23 | 14% | 2.2 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Misc. | Other Int. Lighting | ROB | lamp | 121 | 81% | 0.02 | 9 | \$22 | 11% | 2.2 |
| FE-Penelec | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Misc. | Other Int. Lighting | Early | lamp | 169 | 75% | 0.03 | 4 | \$73 | 39% | 0.4 |
| FE-Penelec | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Misc. | Other Int. Lighting | New | fixture | 184 | 65% | 0.03 | 13 | \$29 | 46% | 2.8 |
| FE-Penelec | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Misc. | Other Int. Lighting | New | lamp | 92 | 65% | 0.01 | 4 | \$29 | 46% | 0.5 |
| FE-Penelec | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Misc. | Other Int. Lighting | ROB | fixture | 242 | 65% | 0.04 | 13 | \$29 | 39% | 3.7 |
| FE-Penelec | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Misc. | Other Int. Lighting | ROB | lamp | 121 | 65% | 0.02 | 4 | \$29 | 39% | 0.7 |
| FE-Penelec | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Misc. | Other Int. Lighting | Early | lamp | 169 | 75% | 0.03 | 4 | \$3.2 | 24% | 10.0 |
| FE-Penelec | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Misc. | Other Int. Lighting | New | lamp | 92 | 65% | 0.01 | 4 | \$1.8 | 24% | 8.5 |
| FE-Penelec | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Misc. | Other Int. Lighting | ROB | lamp | 121 | 65% | 0.02 | 4 | \$1.8 | 24% | 11.2 |
| FE-Penelec | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Misc. | Other Int. Lighting | ROB | lamp | 121 | 65% | 0.02 | 4 | \$1.8 | 24% | 11.2 |
| FE-Penelec | Exit Sign Retrofit: CFL replacing Incandescent | One 23W Single Sided Incandescent Exit Sign | Misc. | Other Int. Lighting | Early | exit sign | 136 | 42% | 0.01 | 15 | \$48 | 22% | 0.8 |
| FE-Penelec | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Misc. | Other Int. Lighting | New | building | 9,061 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.0 |
| FE-Penelec | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Misc. | Other Int. Lighting | New | building | 9,061 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |
| FE-Penelec | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Misc. | Other Int. Lighting | New | building | 9,061 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| FE-Penelec | Indoor Daylight Sensors | Lighting w/ No Controls | Misc. | Other Int. Lighting | Existing | building | 9,061 | 28% | 0.3 | 8 | \$4,908 | 13% | 0.2 |
| FE-Penelec | Indoor Daylight Sensors | Lighting w/ No Controls | Misc. | Other Int. Lighting | New | building | 9,061 | 4.1% | 0.04 | 8 | \$4,908 | 0% | 0.0 |
| FE-Penelec | LED Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Misc. | Other Int. Lighting | Early | sign | 88 | 78% | 0.01 | 15 | \$48 | 16% | 0.9 |
| FE-Penelec | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Misc. | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 2.0 |
| FE-Penelec | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Misc. | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 2.0 |
| FE-Penelec | LED Task Lighting/Screw-In | 1 15W CFL bulb | Misc. | Other Int. Lighting | Early | lamp | 30 | 33% | 0.00 | 12 | \$9.6 | 24% | 0.6 |
| FE-Penelec | LED Task Lighting/Screw-In | 1 60W Incandescent Bulb | Misc. | Other Int. Lighting | Early | lamp | 119 | 83% | 0.02 | 12 | \$9.6 | 24% | 6.1 |
| FE-Penelec | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Misc. | Other Int. Lighting | New | lamp | 65 | 77% | 0.01 | 12 | \$7.9 | 24% | 3.7 |
| FE-Penelec | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Misc. | Other Int. Lighting | New | lamp | 65 | 77% | 0.01 | 12 | \$7.9 | 24% | 3.7 |
| FE-Penelec | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Misc. | Other Int. Lighting | ROB | lamp | 86 | 77% | 0.01 | 12 | \$7.9 | 24% | 4.9 |
| FE-Penelec | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Misc. | Other Int. Lighting | ROB | lamp | 86 | 77% | 0.01 | 12 | \$7.9 | 24% | 4.9 |
| FE-Penelec | Occupancy Sensor | Lighting w/ No Controls | Misc. | Other Int. Lighting | Existing | building | 9,061 | 24% | 0.2 | 8 | \$1,503 | 12% | 0.5 |
| FE-Penelec | Occupancy Sensor | Lighting w/ No Controls | Misc. | Other Int. Lighting | New | building | 9,061 | 7.0% | 0.07 | 8 | \$1,503 | 0% | 0.2 |
| FE-Penelec | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Misc. | Other Int. Lighting | Existing | building | 9,061 | 28% | 0.3 | 8 | \$4,908 | 12% | 0.2 |
| FE-Penelec | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Misc. | Other Int. Lighting | New | building | 9,061 | 4.1% | 0.04 | 8 | \$4,908 | 0% | 0.0 |
| FE-Penelec | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Misc. | Other Int. Lighting | Early | exit sign | 136 | 100% | 0.02 | 15 | \$173 | 26% | 0.5 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|--|---|---------|---------------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Misc. | Other Int. Lighting | New | exit sign | 78 | 100% | 0.01 | 15 | \$148 | 31% | 0.3 |
| FE-Penelec | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Misc. | Other Int. Lighting | ROB | exit sign | 78 | 100% | 0.01 | 15 | \$148 | 26% | 0.3 |
| FE-Penelec | Time Clock Control | Lighting w/ No Controls | Misc. | Other Int. Lighting | Existing | building | 9,061 | 28% | 0.3 | 8 | \$997 | 13% | 1.0 |
| FE-Penelec | Time Clock Control | Lighting w/ No Controls | Misc. | Other Int. Lighting | New | building | 9,061 | 4.1% | 0.04 | 8 | \$997 | 0% | 0.1 |
| FE-Penelec | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Misc. | Plug Load | Existing | building | 1,297 | 46% | 0.5 | 5 | \$189 | 4% | 1.6 |
| FE-Penelec | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Misc. | Plug Load | New | building | 1,297 | 46% | 0.5 | 5 | \$189 | 4% | 1.6 |
| FE-Penelec | Data Center - Server/Storage Consolidation | No Consolidation | Misc. | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penelec | Data Center - Server/Storage Consolidation | No Consolidation | Misc. | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penelec | Data Center - Server/Storage Virtualization | No Virtualization | Misc. | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penelec | Data Center - Server/Storage Virtualization | No Virtualization | Misc. | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penelec | Energy Star - Scanners | Std Scanner | Misc. | Plug Load | New | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| FE-Penelec | Energy Star - Scanners | Std Scanner | Misc. | Plug Load | ROB | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| FE-Penelec | Energy Star Dishwasher | Existing Dishwasher units | Misc. | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,550 | 6% | 1.0 |
| FE-Penelec | Energy Star Dishwasher | Standard Dishwasher unit | Misc. | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,003 | 6% | 3.5 |
| FE-Penelec | Energy Star Dishwasher | Standard Dishwasher unit | Misc. | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,003 | 6% | 3.5 |
| FE-Penelec | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Misc. | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 17% | 0.2 |
| FE-Penelec | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Misc. | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.0 |
| FE-Penelec | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Misc. | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.0 |
| FE-Penelec | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Misc. | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 64% | 0.8 |
| FE-Penelec | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Misc. | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 64% | 1.7 |
| FE-Penelec | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Misc. | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 64% | 1.7 |
| FE-Penelec | ENERGY STAR® Copiers | 10% Less Efficient Copier | Misc. | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 18% | 0.0 |
| FE-Penelec | ENERGY STAR® Copiers | One Conventional Copier | Misc. | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| FE-Penelec | ENERGY STAR® Copiers | One Conventional Copier | Misc. | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| FE-Penelec | ENERGY STAR® desktop | Standard computer | Misc. | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 69% | 0.1 |
| FE-Penelec | ENERGY STAR® desktop | Standard computer | Misc. | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.3 |
| FE-Penelec | ENERGY STAR® desktop | Standard computer | Misc. | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.3 |
| FE-Penelec | ENERGY STAR® Fax | 10% Less Efficient Fax | Misc. | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 15% | 0.0 |
| FE-Penelec | ENERGY STAR® Fax | One Conventional Fax | Misc. | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| FE-Penelec | ENERGY STAR® Fax | One Conventional Fax | Misc. | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| FE-Penelec | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Misc. | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 70% | 0.0 |
| FE-Penelec | ENERGY STAR® Monitors | One Conventional Monitor | Misc. | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| FE-Penelec | ENERGY STAR® Monitors | One Conventional Monitor | Misc. | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| FE-Penelec | ENERGY STAR® Printers | 10% Less Efficient Printer | Misc. | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 44% | 0.0 |
| FE-Penelec | ENERGY STAR® Printers | One Conventional Printer | Misc. | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| FE-Penelec | ENERGY STAR® Printers | One Conventional Printer | Misc. | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| FE-Penelec | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Misc. | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 43% | 0.1 |
| FE-Penelec | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Misc. | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.7 |
| FE-Penelec | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Misc. | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.7 |
| FE-Penelec | ENERGY STAR® Televisions | 10% Less Efficient Television | Misc. | Plug Load | Early | Unit | 221 | 38% | 0.02 | 6 | \$672 | 40% | 0.0 |
| FE-Penelec | ENERGY STAR® Televisions | One Conventional Television | Misc. | Plug Load | New | Unit | 201 | 32% | 0.01 | 6 | \$206 | 40% | 0.1 |
| FE-Penelec | ENERGY STAR® Televisions | One Conventional Television | Misc. | Plug Load | ROB | Unit | 201 | 32% | 0.01 | 6 | \$206 | 40% | 0.1 |
| FE-Penelec | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Misc. | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 24% | 0.3 |
| FE-Penelec | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Misc. | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.6 |
| FE-Penelec | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Misc. | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.6 |
| FE-Penelec | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Misc. | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.3 |
| FE-Penelec | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Misc. | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.3 |
| FE-Penelec | Network PC Power Management | No PC Power Management | Misc. | Plug Load | Existing | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 7.9 |
| FE-Penelec | Network PC Power Management | No PC Power Management | Misc. | Plug Load | New | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 7.9 |
| FE-Penelec | Smart Strip Plug Outlets | Standard plug strip/outlet | Misc. | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.4 |
| FE-Penelec | Smart Strip Plug Outlets | Standard plug strip/outlet | Misc. | Plug Load | Early | Smart Strip | 378 | 26% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Penelec | Smart Strip Plug Outlets | Standard plug strip/outlet | Misc. | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Penelec | Smart Strip Plug Outlets | Standard plug strip/outlet | Misc. | Plug Load | New | Smart Strip | 296 | 42% | 0.01 | 5 | \$21 | 85% | 1.3 |
| FE-Penelec | Smart Strip Plug Outlets | Standard plug strip/outlet | Misc. | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Penelec | Smart Strip Plug Outlets | Standard plug strip/outlet | Misc. | Plug Load | ROB | Smart Strip | 296 | 42% | 0.01 | 5 | \$21 | 85% | 1.3 |
| FE-Penelec | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Misc. | Plug Load | Existing | building | 1,297 | 46% | 0.5 | 5 | \$180 | 3% | 1.7 |
| FE-Penelec | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Misc. | Plug Load | New | building | 1,297 | 46% | 0.5 | 5 | \$180 | 3% | 1.7 |
| FE-Penelec | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Misc. | Refrigeration | Existing | building | 907 | 3.6% | 0.04 | 12 | \$70 | 11% | 0.6 |
| FE-Penelec | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Misc. | Refrigeration | New | building | 907 | 3.6% | 0.04 | 12 | \$70 | 11% | 0.6 |
| FE-Penelec | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Misc. | Refrigeration | Existing | building | 907 | 1.4% | 0.01 | 12 | \$70 | 11% | 0.2 |
| FE-Penelec | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Misc. | Refrigeration | New | building | 907 | 1.4% | 0.01 | 12 | \$70 | 11% | 0.2 |
| FE-Penelec | Auto Closer on Refrigerator Door | Door w/out Autocloser | Misc. | Refrigeration | Existing | building | 3,427 | 23% | 0.2 | 8 | \$642 | 40% | 0.6 |
| FE-Penelec | Auto Closer on Refrigerator Door | Door w/out Autocloser | Misc. | Refrigeration | Existing | building | 5,745 | 14% | 0.1 | 8 | \$700 | 40% | 0.5 |
| FE-Penelec | Auto Closer on Refrigerator Door | Door w/out Autocloser | Misc. | Refrigeration | New | building | 3,427 | 23% | 0.2 | 8 | \$642 | 40% | 0.6 |
| FE-Penelec | Auto Closer on Refrigerator Door | Door w/out Autocloser | Misc. | Refrigeration | New | building | 5,745 | 14% | 0.1 | 8 | \$700 | 40% | 0.5 |
| FE-Penelec | Demand Hot Gas Defrost | Base Refrigeration System | Misc. | Refrigeration | Existing | measure | 907 | 3.0% | 0.03 | 10 | \$1,380 | 0% | 0.0 |
| FE-Penelec | Demand Hot Gas Defrost | Base Refrigeration System | Misc. | Refrigeration | New | measure | 907 | 3.0% | 0.03 | 10 | \$1,380 | 0% | 0.0 |
| FE-Penelec | Door Gasket- Freezer | Door w/out Gasket | Misc. | Refrigeration | Existing | building | 3,427 | 14% | 0.1 | 4 | \$66 | 29% | 1.8 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|--|---------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Door Gasket- Freezer | Door w/out Gasket | Misc. | Refrigeration | New | building | 3,427 | 7.0% | 0.07 | 4 | \$66 | 29% | 0.9 |
| FE-Penelec | Door Gasket- Refrigerator | Door w/out Gasket | Misc. | Refrigeration | Existing | building | 5,745 | 4.4% | 0.04 | 4 | \$97 | 45% | 0.6 |
| FE-Penelec | Door Gasket- Refrigerator | Door w/out Gasket | Misc. | Refrigeration | New | building | 5,745 | 4.4% | 0.04 | 4 | \$97 | 45% | 0.6 |
| FE-Penelec | eCube | Refrigeration unit w/out eCube | Misc. | Refrigeration | Existing | building | 5,745 | 15% | 0.2 | 15 | \$601 | 57% | 1.0 |
| FE-Penelec | eCube | Refrigeration unit w/out eCube | Misc. | Refrigeration | New | building | 5,745 | 15% | 0.2 | 15 | \$601 | 57% | 1.0 |
| FE-Penelec | Efficient compressor motor | Base Refrigeration System - Grocery | Misc. | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.6 |
| FE-Penelec | Efficient compressor motor | Base Refrigeration System - Grocery | Misc. | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.6 |
| FE-Penelec | Efficient compressor motor | Base Refrigeration System - Grocery | Misc. | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.6 |
| FE-Penelec | Efficient compressor motor | Base Refrigeration System - Grocery | Misc. | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.6 |
| FE-Penelec | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Misc. | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.5 |
| FE-Penelec | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Misc. | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| FE-Penelec | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Misc. | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| FE-Penelec | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Misc. | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.3 |
| FE-Penelec | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Misc. | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.7 |
| FE-Penelec | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Misc. | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.7 |
| FE-Penelec | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Misc. | Refrigeration | Existing | building | 5,745 | 1.7% | 0.02 | 10 | \$369 | 77% | 0.1 |
| FE-Penelec | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Misc. | Refrigeration | New | building | 5,745 | 1.7% | 0.02 | 10 | \$369 | 77% | 0.1 |
| FE-Penelec | Floating head pressure controller | System w/out FHPC | Misc. | Refrigeration | Existing | building | 3,427 | 6.5% | 0.03 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penelec | Floating head pressure controller | System w/out FHPC | Misc. | Refrigeration | Existing | building | 907 | 11% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penelec | Floating head pressure controller | System w/out FHPC | Misc. | Refrigeration | Existing | building | 5,745 | 1.3% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penelec | Floating head pressure controller | System w/out FHPC | Misc. | Refrigeration | New | building | 3,427 | 6.5% | 0.03 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penelec | Floating head pressure controller | System w/out FHPC | Misc. | Refrigeration | New | building | 907 | 11% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penelec | Floating head pressure controller | System w/out FHPC | Misc. | Refrigeration | New | building | 5,745 | 1.3% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penelec | High Efficiency Commercial Freezer | Std. Commercial Freezer | Misc. | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 86% | 0.3 |
| FE-Penelec | High Efficiency Commercial Freezer | Std. Commercial Freezer | Misc. | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 3.8 |
| FE-Penelec | High Efficiency Commercial Freezer | Std. Commercial Freezer | Misc. | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 3.8 |
| FE-Penelec | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Misc. | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 2% | 0.1 |
| FE-Penelec | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Misc. | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.8 |
| FE-Penelec | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Misc. | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.8 |
| FE-Penelec | High Efficiency Ice Maker | Existing Standard Efficiency Ice Maker in Pennsylvania | Misc. | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 73% | 0.1 |
| FE-Penelec | High Efficiency Ice Maker | Standard code minimum Ice Maker | Misc. | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| FE-Penelec | High Efficiency Ice Maker | Standard code minimum Ice Maker | Misc. | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| FE-Penelec | High Efficiency Ice Making Head | Standard Ice Making Head | Misc. | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.7 |
| FE-Penelec | High Efficiency Ice Making Head | Standard Ice Making Head | Misc. | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.7 |
| FE-Penelec | High R-Value Glass Doors | Base Refrigeration System - Grocery | Misc. | Refrigeration | Existing | building | 907 | 0.7% | 0.01 | 10 | \$16 | 0% | 0.5 |
| FE-Penelec | High R-Value Glass Doors | Base Refrigeration System - Grocery | Misc. | Refrigeration | New | building | 907 | 0.7% | 0.01 | 10 | \$16 | 0% | 0.5 |
| FE-Penelec | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Misc. | Refrigeration | Early | Fixture | 373 | 56% | 0.02 | 8 | \$448 | 47% | 0.2 |
| FE-Penelec | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Misc. | Refrigeration | New | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 47% | 0.3 |
| FE-Penelec | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Misc. | Refrigeration | ROB | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 47% | 0.3 |
| FE-Penelec | No-heat glass doors | Standard low-temp reach-in | Misc. | Refrigeration | Existing | building | 907 | 20% | 0.2 | 10 | \$1,427 | 8% | 0.1 |
| FE-Penelec | No-heat glass doors | Standard low-temp reach-in | Misc. | Refrigeration | New | building | 907 | 20% | 0.2 | 10 | \$1,427 | 8% | 0.1 |
| FE-Penelec | Quick acting freezer doors | Std. Freezer Doors | Misc. | Refrigeration | Existing | building | 3,427 | 13% | 0.1 | 10 | \$793 | 56% | 0.3 |
| FE-Penelec | Quick acting freezer doors | Std. Freezer Doors | Misc. | Refrigeration | New | building | 3,427 | 13% | 0.1 | 10 | \$793 | 56% | 0.3 |
| FE-Penelec | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Misc. | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 30% | 0.4 |
| FE-Penelec | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Misc. | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.5 |
| FE-Penelec | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Misc. | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.5 |
| FE-Penelec | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 30% | 1.6 |
| FE-Penelec | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 2.8 |
| FE-Penelec | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 2.8 |
| FE-Penelec | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 30% | 1.6 |
| FE-Penelec | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 3.8 |
| FE-Penelec | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 3.8 |
| FE-Penelec | Refrigeration Commissioning | Non-commissioned refrigeration system | Misc. | Refrigeration | Existing | building | 10,079 | 9.5% | 0.10 | 3 | \$3,556 | 85% | 0.0 |
| FE-Penelec | Refrigeration Commissioning | Non-commissioned refrigeration system | Misc. | Refrigeration | New | building | 10,079 | 9.5% | 0.10 | 3 | \$3,556 | 85% | 0.0 |
| FE-Penelec | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Misc. | Refrigeration | Existing | building | 3,427 | 30% | 0.3 | 4 | \$80 | 22% | 3.3 |
| FE-Penelec | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Misc. | Refrigeration | Existing | building | 5,745 | 6.2% | 0.06 | 4 | \$117 | 22% | 0.7 |
| FE-Penelec | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Misc. | Refrigeration | New | building | 3,427 | 30% | 0.3 | 4 | \$80 | 22% | 3.3 |
| FE-Penelec | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Misc. | Refrigeration | New | building | 5,745 | 6.2% | 0.06 | 4 | \$117 | 22% | 0.7 |
| FE-Penelec | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Misc. | Refrigeration | Existing | building | 3,427 | 5.8% | 0.06 | 11 | \$119 | 79% | 1.0 |
| FE-Penelec | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Misc. | Refrigeration | New | building | 3,427 | 5.8% | 0.06 | 11 | \$119 | 79% | 1.0 |
| FE-Penelec | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Misc. | Refrigeration | Existing | building | 5,745 | 4.5% | 0.05 | 11 | \$119 | 79% | 1.1 |
| FE-Penelec | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Misc. | Refrigeration | New | building | 5,745 | 4.5% | 0.05 | 11 | \$119 | 79% | 1.1 |
| FE-Penelec | Vertical Night Covers | Display cases w/out night covers-High Temperature | Misc. | Refrigeration | Existing | building | 907 | 0.6% | 0.01 | 5 | \$50 | 9% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|---|---------|-----------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Vertical Night Covers | Display cases w/out night covers-High Temperature | Misc. | Refrigeration | New | building | 907 | 0.6% | 0.01 | 5 | \$50 | 9% | 0.1 |
| FE-Penelec | VSD Controlled Compressor | Compressor w/out VSD | Misc. | Refrigeration | Early | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |
| FE-Penelec | VSD Controlled Compressor | Compressor w/out VSD | Misc. | Refrigeration | New | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |
| FE-Penelec | VSD Controlled Compressor | Compressor w/out VSD | Misc. | Refrigeration | ROB | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |
| FE-Penelec | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Misc. | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$269 | 35% | 0.9 |
| FE-Penelec | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Misc. | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$269 | 35% | 0.8 |
| FE-Penelec | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Misc. | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.0 |
| FE-Penelec | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Misc. | Refrigeration | New | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 2.9 |
| FE-Penelec | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Misc. | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.0 |
| FE-Penelec | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Misc. | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 2.9 |
| FE-Penelec | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 35% | 2.3 |
| FE-Penelec | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 35% | 2.2 |
| FE-Penelec | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 4.9 |
| FE-Penelec | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.6 |
| FE-Penelec | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 4.9 |
| FE-Penelec | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.6 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Misc. | Space Heating | Existing | building | 2,598 | 7.1% | 0.07 | 6 | \$12,713 | 82% | 0.0 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Misc. | Space Heating | New | building | 2,598 | 7.1% | 0.07 | 6 | \$12,713 | 82% | 0.0 |
| FE-Penelec | Adding window shade film | No shade film | Misc. | Space Heating | Existing | building | 2,598 | 1.3% | 0.4 | 10 | \$32 | 13% | 8.6 |
| FE-Penelec | Adding window shade film | No shade film | Misc. | Space Heating | New | building | 2,598 | 1.3% | 0.4 | 10 | \$32 | 13% | 8.6 |
| FE-Penelec | Adding window shade screen | No shade screen | Misc. | Space Heating | Existing | building | 2,598 | 1.1% | 0.01 | 10 | \$12 | 13% | 1.4 |
| FE-Penelec | Adding window shade screen | No shade screen | Misc. | Space Heating | New | building | 2,598 | 1.1% | 0.01 | 10 | \$12 | 13% | 1.4 |
| FE-Penelec | Automated control system | Manual Controls | Misc. | Space Heating | Existing | building | 2,598 | 17% | 0.2 | 15 | \$2,844 | 51% | 0.1 |
| FE-Penelec | Automated control system | Manual Controls | Misc. | Space Heating | New | building | 2,598 | 17% | 0.2 | 15 | \$2,844 | 94% | 0.1 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Misc. | Space Heating | Existing | building | 2,598 | 4.9% | 0.05 | 15 | \$17,130 | 71% | 0.0 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Misc. | Space Heating | New | building | 2,598 | 1.7% | 0.02 | 15 | \$16,283 | 94% | 0.0 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Misc. | Space Heating | Existing | building | 2,598 | 1.4% | 0.04 | 15 | \$21 | 20% | 2.7 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Misc. | Space Heating | New | building | 2,598 | 1.4% | 0.04 | 15 | \$21 | 10% | 2.7 |
| FE-Penelec | Efficient Unit Heating System | Existing Unit Heaters in PA | Misc. | Space Heating | Early | heater | 31,537 | 23% | 0.05 | 15 | \$3,289 | 83% | 1.1 |
| FE-Penelec | Efficient Unit Heating System | Std. Unit Heater | Misc. | Space Heating | New | heater | 27,989 | 13% | 0.03 | 15 | \$1,991 | 83% | 0.9 |
| FE-Penelec | Efficient Unit Heating System | Std. Unit Heater | Misc. | Space Heating | ROB | heater | 27,989 | 13% | 0.03 | 15 | \$1,991 | 83% | 0.9 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Misc. | Space Heating | Existing | building | 2,598 | 7.1% | 0.07 | 15 | \$11,522 | 25% | 0.0 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Misc. | Space Heating | New | building | 2,598 | 7.1% | 0.07 | 15 | \$11,522 | 35% | 0.0 |
| FE-Penelec | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Misc. | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$76 | 80% | 1.0 |
| FE-Penelec | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Misc. | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$76 | 80% | 1.0 |
| FE-Penelec | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Misc. | Space Heating | Existing | building | 2,598 | 2.2% | 0.02 | 10 | \$7,735 | 81% | 0.0 |
| FE-Penelec | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Misc. | Space Heating | New | building | 2,598 | 2.2% | 0.02 | 10 | \$7,735 | 81% | 0.0 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Misc. | Space Heating | Existing | building | 2,598 | 3.6% | 0.04 | 11 | \$286 | 49% | 0.2 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Misc. | Space Heating | New | building | 2,598 | 3.1% | 0.03 | 11 | \$146 | 49% | 0.4 |
| FE-Penelec | Re-Commissioning (Existing Construction) | No Re-Commissioning | Misc. | Space Heating | Existing | building | 2,598 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |
| FE-Penelec | VFD on Cooling Tower Fan | Motor w/out VFD | Misc. | Space Heating | Early | motor | 15,151 | 70% | 0.08 | 15 | \$2,843 | 88% | 1.8 |
| FE-Penelec | VFD on Cooling Tower Fan | Motor w/out VFD | Misc. | Space Heating | New | motor | 14,867 | 72% | 0.08 | 15 | \$2,843 | 88% | 1.8 |
| FE-Penelec | VFD on Cooling Tower Fan | Motor w/out VFD | Misc. | Space Heating | ROB | motor | 14,867 | 72% | 0.08 | 15 | \$2,843 | 88% | 1.8 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Misc. | Space Heating | Existing | building | 2,598 | 14% | 0.1 | 15 | \$5,133 | 26% | 0.1 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Misc. | Space Heating | New | building | 2,598 | 0.4% | 0.00 | 15 | \$3,937 | 94% | 0.0 |
| FE-Penelec | Green LED Traffic Light | Green Incandescent Traffic Light | Misc. | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 0% | 1.2 |
| FE-Penelec | Green LED Traffic Light | Green Incandescent Traffic Light | Misc. | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| FE-Penelec | Green LED Traffic Light | Green Incandescent Traffic Light | Misc. | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| FE-Penelec | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Misc. | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 0% | 3.0 |
| FE-Penelec | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Misc. | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-Penelec | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Misc. | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-Penelec | Induction Street Lighting | One 100W HPS Street Light Fixture | Misc. | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 0% | 0.3 |
| FE-Penelec | Induction Street Lighting | One 100W HPS Street Light Fixture | Misc. | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.7 |
| FE-Penelec | Induction Street Lighting | One 100W HPS Street Light Fixture | Misc. | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.7 |
| FE-Penelec | LED Street Lighting | One 100W HPS Street Light | Misc. | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 0% | 0.2 |
| FE-Penelec | LED Street Lighting | One 100W HPS Street Light | Misc. | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-Penelec | LED Street Lighting | One 100W HPS Street Light | Misc. | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-Penelec | Red LED Traffic Light | One Red Incandescent Traffic Light | Misc. | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 0% | 1.6 |
| FE-Penelec | Red LED Traffic Light | One Red Incandescent Traffic Light | Misc. | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| FE-Penelec | Red LED Traffic Light | One Red Incandescent Traffic Light | Misc. | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| FE-Penelec | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Misc. | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 0% | 0.1 |
| FE-Penelec | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Misc. | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-Penelec | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Misc. | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-Penelec | Demand controlled Circulating Systems | Constant circulation system | Misc. | Water Heating | Existing | building | 1,351 | 20% | 0.2 | 15 | \$245 | 59% | 1.3 |
| FE-Penelec | Demand controlled Circulating Systems | Constant circulation system | Misc. | Water Heating | New | building | 1,351 | 20% | 0.2 | 15 | \$245 | 59% | 1.3 |
| FE-Penelec | Drainwater Heat Recovery Water Heater | No heat recovery | Misc. | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.9 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|--|---|---------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Drainwater Heat Recovery Water Heater | No heat recovery | Misc. | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.9 |
| FE-Penelec | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Misc. | Water Heating | Existing | building | 1,351 | 5.9% | 0.06 | 12 | \$14 | 85% | 5.8 |
| FE-Penelec | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Misc. | Water Heating | New | building | 1,351 | 5.9% | 0.06 | 12 | \$4.0 | 85% | 20.4 |
| FE-Penelec | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Misc. | Water Heating | Early | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 2.9 |
| FE-Penelec | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Misc. | Water Heating | Early | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 2.9 |
| FE-Penelec | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Misc. | Water Heating | New | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 2.9 |
| FE-Penelec | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Misc. | Water Heating | New | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 2.9 |
| FE-Penelec | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Misc. | Water Heating | ROB | water heater | 10,350 | 65% | 1.2 | 10 | \$1,187 | 68% | 2.8 |
| FE-Penelec | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Misc. | Water Heating | ROB | water heater | 10,350 | 65% | 1.2 | 10 | \$1,187 | 68% | 2.8 |
| FE-Penelec | Heat Recovery Unit | Base Water Heating | Misc. | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.6 |
| FE-Penelec | Heat Recovery Unit | Base Water Heating | Misc. | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.6 |
| FE-Penelec | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Misc. | Water Heating | Early | water heater | 3,246 | 5.9% | 0.03 | 15 | \$307 | 79% | 0.4 |
| FE-Penelec | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Misc. | Water Heating | Early | water heater | 3,246 | 5.9% | 0.03 | 15 | \$307 | 79% | 0.4 |
| FE-Penelec | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Misc. | Water Heating | New | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.8 |
| FE-Penelec | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Misc. | Water Heating | New | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.8 |
| FE-Penelec | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Misc. | Water Heating | ROB | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.8 |
| FE-Penelec | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Misc. | Water Heating | ROB | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.8 |
| FE-Penelec | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Misc. | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$466 | 81% | 39.2 |
| FE-Penelec | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Misc. | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 20.4 |
| FE-Penelec | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Misc. | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 20.4 |
| FE-Penelec | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Misc. | Water Heating | Existing | building | 1,351 | 2.7% | 0.03 | 13 | \$5.4 | 68% | 7.4 |
| FE-Penelec | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Misc. | Water Heating | New | building | 1,351 | 2.7% | 0.03 | 13 | \$5.4 | 0% | 7.4 |
| FE-Penelec | Hot Water Circulation Pump Time-Clock | Constant circulation system | Misc. | Water Heating | Existing | building | 1,351 | 5.3% | 0.05 | 10 | \$5.5 | 72% | 11.7 |
| FE-Penelec | Hot Water Circulation Pump Time-Clock | Constant circulation system | Misc. | Water Heating | New | building | 1,351 | 5.3% | 0.05 | 10 | \$5.5 | 72% | 11.7 |
| FE-Penelec | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Misc. | Water Heating | Existing | building | 1,243 | 2.9% | 0.03 | 7 | \$22 | 78% | 1.2 |
| FE-Penelec | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Misc. | Water Heating | New | building | 1,351 | 0.8% | 0.01 | 7 | \$0.5 | 78% | 14.6 |
| FE-Penelec | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Misc. | Water Heating | Existing | building | 1,351 | 13% | 0.1 | 5 | \$300 | 0% | 0.3 |
| FE-Penelec | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Misc. | Water Heating | New | building | 1,351 | 9.3% | 0.09 | 5 | \$194 | 0% | 0.3 |
| FE-Penelec | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Misc. | Water Heating | Existing | building | 1,351 | 6.5% | 0.07 | 9 | \$25 | 2% | 2.9 |
| FE-Penelec | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Misc. | Water Heating | New | building | 1,351 | 6.5% | 0.07 | 9 | \$6.0 | 2% | 12.0 |
| FE-Penelec | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Misc. | Water Heating | Early | water heater | 10,645 | 52% | 0.4 | 15 | \$6,222 | 32% | 0.5 |
| FE-Penelec | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Misc. | Water Heating | New | water heater | 10,350 | 51% | 0.4 | 15 | \$6,222 | 32% | 0.5 |
| FE-Penelec | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Misc. | Water Heating | ROB | water heater | 10,350 | 51% | 0.4 | 15 | \$6,222 | 32% | 0.5 |
| FE-Penelec | Ultrasonic Faucet Control | Manual Faucet Control | Misc. | Water Heating | Existing | building | 1,351 | 3.0% | 0.03 | 10 | \$234 | 77% | 0.2 |
| FE-Penelec | Ultrasonic Faucet Control | Manual Faucet Control | Misc. | Water Heating | New | building | 1,351 | 3.0% | 0.03 | 10 | \$234 | 77% | 0.2 |
| FE-Penelec | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Misc. | Water Heating | Existing | building | 1,351 | 2.2% | 0.02 | 4 | \$28 | 83% | 0.5 |
| FE-Penelec | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Misc. | Water Heating | New | building | 1,351 | 2.3% | 0.02 | 4 | \$28 | 83% | 0.5 |
| FE-Penelec | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Office | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.1 |
| FE-Penelec | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Office | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.1 |
| FE-Penelec | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Office | Cooking | Early | steamer | 51 | 46% | 0.00 | 12 | \$5,053 | 81% | 0.0 |
| FE-Penelec | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Office | Cooking | New | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-Penelec | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Office | Cooking | ROB | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-Penelec | Electric combination oven (Energy Star) | Standard Oven | Office | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.9 |
| FE-Penelec | Electric combination oven (Energy Star) | Standard Oven | Office | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.9 |
| FE-Penelec | Electric Convection Oven | Conventional convection oven w/ 65% efficiency | Office | Cooking | Early | oven | 8,641 | 37% | 0.6 | 12 | \$4,119 | 81% | 0.4 |
| FE-Penelec | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Office | Cooking | New | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.7 |
| FE-Penelec | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Office | Cooking | ROB | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.7 |
| FE-Penelec | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Office | Cooking | Early | fryer | 6,105 | 23% | 0.3 | 12 | \$9,241 | 86% | 0.1 |
| FE-Penelec | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Office | Cooking | New | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| FE-Penelec | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Office | Cooking | ROB | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| FE-Penelec | High Efficiency Griddle (ENERGY STAR) | Efficiency code minimum griddle (70% eff) | Office | Cooking | Early | griddle | 11,317 | 65% | 1.4 | 12 | \$4,977 | 86% | 0.8 |
| FE-Penelec | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Office | Cooking | New | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.2 |
| FE-Penelec | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Office | Cooking | ROB | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.2 |
| FE-Penelec | High Efficiency Induction Cooking | Standard Cooking | Office | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-Penelec | High Efficiency Induction Cooking | Standard Cooking | Office | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-Penelec | Active chilled beam cooling | No Active Chilled beam cooling | Office | Cooling Central | New | building | 1,185 | 5.3% | 0.05 | 15 | \$310 | 72% | 0.3 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Office | Cooling Central | Existing | building | 1,247 | 7.0% | 0.07 | 6 | \$12,205 | 82% | 0.0 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Office | Cooling Central | New | building | 1,247 | 7.0% | 0.07 | 6 | \$12,205 | 82% | 0.0 |
| FE-Penelec | Adding window shade film | No shade film | Office | Cooling Central | Existing | building | 1,247 | 1.3% | 0.4 | 10 | \$15 | 12% | 17.6 |
| FE-Penelec | Adding window shade film | No shade film | Office | Cooling Central | New | building | 1,247 | 1.3% | 0.4 | 10 | \$15 | 13% | 17.6 |
| FE-Penelec | Adding window shade screen | No shade screen | Office | Cooling Central | Existing | building | 1,247 | 1.1% | 0.01 | 10 | \$5.9 | 13% | 2.0 |
| FE-Penelec | Adding window shade screen | No shade screen | Office | Cooling Central | New | building | 1,247 | 1.0% | 0.01 | 10 | \$5.9 | 13% | 2.0 |
| FE-Penelec | Automated control system | Manual Controls | Office | Cooling Central | Existing | building | 1,247 | 17% | 0.2 | 15 | \$1,365 | 51% | 0.2 |
| FE-Penelec | Automated control system | Manual Controls | Office | Cooling Central | New | building | 1,247 | 17% | 0.2 | 15 | \$1,365 | 94% | 0.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|--|--|---------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Office | Cooling Central | Existing | building | 1,247 | 4.9% | 0.05 | 15 | \$16,437 | 71% | 0.0 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Office | Cooling Central | New | building | 1,247 | 2.3% | 0.02 | 15 | \$15,624 | 94% | 0.0 |
| FE-Penelec | Chilled Water Reset, Optimizer System for Chiller(s) | No Chilled Water Reset | Office | Cooling Central | Existing | building | 1,247 | 3.7% | 0.04 | 10 | \$5.7 | 69% | 7.7 |
| FE-Penelec | Chiller Tune Up Diagnostics | No Chiller Tune Up | Office | Cooling Central | Existing | building | 1,247 | 2.3% | 0.02 | 10 | \$1.2 | 59% | 21.4 |
| FE-Penelec | Chiller Tuneup/Diagnostics | No tuneup | Office | Cooling Central | Existing | building | 1,247 | 8.0% | 0.08 | 10 | \$3,184 | 59% | 0.0 |
| FE-Penelec | Chiller Tuneup/Diagnostics | No tuneup | Office | Cooling Central | New | building | 1,247 | 8.0% | 0.08 | 10 | \$3,184 | 59% | 0.0 |
| FE-Penelec | Cooling Tower Optimization | No Cooling Tower Optimization | Office | Cooling Central | Existing | building | 1,247 | 15% | 0.1 | 10 | \$17 | 73% | 10.2 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Office | Cooling Central | Existing | building | 1,247 | 1.4% | 0.04 | 15 | \$9.9 | 20% | 4.7 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Office | Cooling Central | New | building | 1,247 | 1.4% | 0.04 | 15 | \$9.9 | 10% | 4.7 |
| FE-Penelec | Facility Commissioning | No Facility Commissioning | Office | Cooling Central | New | building | 1,247 | 16% | 0.2 | 10 | \$46,906 | 89% | 0.0 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Office | Cooling Central | Existing | building | 1,247 | 7.0% | 0.07 | 15 | \$5,532 | 25% | 0.0 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Office | Cooling Central | New | building | 1,247 | 7.0% | 0.07 | 15 | \$5,532 | 35% | 0.0 |
| FE-Penelec | Hi Eff HVAC System Design | No HVAC Design | Office | Cooling Central | New | building | 1,247 | 0.8% | 0.01 | 10 | \$1,063 | 51% | 0.0 |
| FE-Penelec | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Office | Cooling Central | Early | ton | 3,841 | 24% | 0.3 | 15 | \$108,550 | 88% | 0.0 |
| FE-Penelec | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Office | Cooling Central | New | ton | 3,140 | 6.7% | 0.07 | 15 | \$12,927 | 88% | 0.0 |
| FE-Penelec | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Office | Cooling Central | ROB | ton | 3,140 | 6.7% | 0.07 | 15 | \$12,927 | 88% | 0.0 |
| FE-Penelec | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Office | Cooling Central | Early | ton | 5,740 | 23% | 0.5 | 15 | \$140,105 | 88% | 0.0 |
| FE-Penelec | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Office | Cooling Central | New | ton | 4,618 | 4.9% | 0.08 | 15 | \$9,336 | 88% | 0.0 |
| FE-Penelec | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Office | Cooling Central | ROB | ton | 4,618 | 4.9% | 0.08 | 15 | \$9,336 | 88% | 0.0 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Office | Cooling Central | Early | ton | 46,985 | 26% | 4.2 | 15 | \$105,354 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Office | Cooling Central | New | ton | 40,938 | 15% | 2.1 | 15 | \$30,530 | 88% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Office | Cooling Central | ROB | ton | 40,938 | 15% | 2.1 | 15 | \$30,530 | 88% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Office | Cooling Central | Early | ton | 70,371 | 23% | 5.6 | 15 | \$154,107 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Office | Cooling Central | New | ton | 64,645 | 16% | 3.6 | 15 | \$27,646 | 88% | 0.3 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Office | Cooling Central | ROB | ton | 70,371 | 23% | 5.6 | 15 | \$27,646 | 88% | 0.5 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Office | Cooling Central | Early | ton | 116,873 | 23% | 9.2 | 15 | \$302,924 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Office | Cooling Central | New | ton | 105,779 | 14% | 5.3 | 15 | \$115,432 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Office | Cooling Central | ROB | ton | 116,873 | 23% | 9.2 | 15 | \$115,432 | 88% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Office | Cooling Central | Early | ton | 140,248 | 23% | 11.0 | 15 | \$350,154 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Office | Cooling Central | New | ton | 126,935 | 14% | 6.4 | 15 | \$120,406 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Office | Cooling Central | ROB | ton | 140,248 | 23% | 11.0 | 15 | \$120,406 | 88% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Office | Cooling Central | Early | ton | 31,087 | 29% | 3.2 | 15 | \$83,632 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Office | Cooling Central | New | ton | 24,139 | 8.9% | 0.7 | 15 | \$40,211 | 88% | 0.0 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Office | Cooling Central | ROB | ton | 31,087 | 29% | 3.2 | 15 | \$40,211 | 88% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Office | Cooling Central | Early | ton | 53,416 | 35% | 6.5 | 15 | \$132,173 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Office | Cooling Central | New | ton | 39,839 | 13% | 1.7 | 15 | \$39,556 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Office | Cooling Central | ROB | ton | 39,839 | 13% | 1.7 | 15 | \$39,556 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Office | Cooling Central | Early | ton | 89,181 | 39% | 12.1 | 15 | \$187,029 | 88% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Office | Cooling Central | New | ton | 63,585 | 15% | 3.2 | 15 | \$33,554 | 88% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Office | Cooling Central | ROB | ton | 89,181 | 39% | 12.1 | 15 | \$33,554 | 88% | 0.9 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Office | Cooling Central | Early | ton | 15,605 | 30% | 1.6 | 15 | \$32,398 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Office | Cooling Central | New | ton | 12,364 | 11% | 0.5 | 15 | \$7,188 | 88% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Office | Cooling Central | ROB | ton | 15,605 | 30% | 1.6 | 15 | \$7,188 | 88% | 0.6 |
| FE-Penelec | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Office | Cooling Central | Existing | building | 1,247 | 2.8% | 0.03 | 10 | \$5,350 | 81% | 0.0 |
| FE-Penelec | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Office | Cooling Central | New | building | 1,247 | 2.8% | 0.03 | 10 | \$5,350 | 81% | 0.0 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Office | Cooling Central | Existing | building | 1,247 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|---|---------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Office | Cooling Central | New | building | 1,247 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.1 |
| FE-Penelec | Re-Commissioning (Existing Construction) | No Re-Commissioning | Office | Cooling Central | Existing | building | 1,247 | 16% | 0.2 | 5 | \$7,777 | 86% | 0.0 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Office | Cooling Central | Existing | building | 1,247 | 15% | 0.2 | 15 | \$5,028 | 26% | 0.0 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Office | Cooling Central | New | building | 1,247 | 0.5% | 0.01 | 15 | \$3,857 | 94% | 0.0 |
| FE-Penelec | <65k BTU/hr 14 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Office | Cooling Unitary | Early | ton | 2,151 | 16% | 0.2 | 15 | \$1,545 | 29% | 0.2 |
| FE-Penelec | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Office | Cooling Unitary | New | ton | 1,948 | 7.1% | 0.06 | 15 | \$339 | 29% | 0.4 |
| FE-Penelec | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Office | Cooling Unitary | ROB | ton | 1,948 | 7.1% | 0.06 | 15 | \$339 | 29% | 0.4 |
| FE-Penelec | <65k BTU/hr 15 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Office | Cooling Unitary | Early | ton | 2,151 | 22% | 0.2 | 15 | \$1,821 | 30% | 0.2 |
| FE-Penelec | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Office | Cooling Unitary | New | ton | 1,948 | 13% | 0.1 | 15 | \$714 | 30% | 0.3 |
| FE-Penelec | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Office | Cooling Unitary | ROB | ton | 1,948 | 13% | 0.1 | 15 | \$714 | 30% | 0.3 |
| FE-Penelec | <65k BTU/hr 16 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Office | Cooling Unitary | Early | ton | 2,151 | 26% | 0.3 | 15 | \$2,098 | 31% | 0.3 |
| FE-Penelec | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Office | Cooling Unitary | New | ton | 1,948 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.3 |
| FE-Penelec | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Office | Cooling Unitary | ROB | ton | 1,948 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.3 |
| FE-Penelec | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Office | Cooling Unitary | Early | ton | 54,422 | 3.7% | 0.9 | 15 | \$68,066 | 56% | 0.0 |
| FE-Penelec | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Office | Cooling Unitary | New | ton | 55,120 | 4.9% | 1.2 | 15 | \$6,231 | 56% | 0.4 |
| FE-Penelec | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Office | Cooling Unitary | ROB | ton | 55,120 | 4.9% | 1.2 | 15 | \$6,231 | 56% | 0.4 |
| FE-Penelec | 135-240k min 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Office | Cooling Unitary | Early | ton | 13,391 | 18% | 1.1 | 15 | \$18,135 | 79% | 0.1 |
| FE-Penelec | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Office | Cooling Unitary | New | ton | 12,181 | 10.0% | 0.5 | 15 | \$1,948 | 79% | 0.6 |
| FE-Penelec | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Office | Cooling Unitary | ROB | ton | 12,181 | 10.0% | 0.5 | 15 | \$1,948 | 79% | 0.6 |
| FE-Penelec | 240k-760k min 11 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Office | Cooling Unitary | Early | ton | 35,804 | 9.0% | 1.4 | 15 | \$44,809 | 66% | 0.1 |
| FE-Penelec | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Office | Cooling Unitary | New | ton | 35,893 | 9.3% | 1.5 | 15 | \$4,813 | 66% | 0.7 |
| FE-Penelec | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Office | Cooling Unitary | ROB | ton | 35,893 | 9.3% | 1.5 | 15 | \$4,813 | 66% | 0.7 |
| FE-Penelec | 65k-135k BTU/hr 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Office | Cooling Unitary | Early | ton | 7,894 | 17% | 0.6 | 15 | \$10,946 | 86% | 0.1 |
| FE-Penelec | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Office | Cooling Unitary | New | ton | 7,035 | 6.7% | 0.2 | 15 | \$1,392 | 86% | 0.3 |
| FE-Penelec | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Office | Cooling Unitary | ROB | ton | 7,035 | 6.7% | 0.2 | 15 | \$1,392 | 86% | 0.3 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Office | Cooling Unitary | Existing | building | 20,826 | 7.0% | 0.07 | 6 | \$12,205 | 82% | 0.0 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Office | Cooling Unitary | New | building | 20,826 | 7.0% | 0.07 | 6 | \$12,205 | 82% | 0.0 |
| FE-Penelec | Adding window shade film | No shade film | Office | Cooling Unitary | Existing | building | 20,826 | 1.3% | 0.4 | 10 | \$253 | 12% | 1.4 |
| FE-Penelec | Adding window shade film | No shade film | Office | Cooling Unitary | New | building | 20,826 | 1.3% | 0.4 | 10 | \$253 | 13% | 1.4 |
| FE-Penelec | Adding window shade screen | No shade screen | Office | Cooling Unitary | Existing | building | 20,826 | 1.1% | 0.01 | 10 | \$98 | 12% | 0.9 |
| FE-Penelec | Adding window shade screen | No shade screen | Office | Cooling Unitary | New | building | 20,826 | 1.1% | 0.01 | 10 | \$98 | 13% | 0.9 |
| FE-Penelec | Automated control system | Manual Controls | Office | Cooling Unitary | Existing | building | 20,826 | 17% | 0.2 | 15 | \$22,800 | 51% | 0.1 |
| FE-Penelec | Automated control system | Manual Controls | Office | Cooling Unitary | New | building | 20,826 | 17% | 0.2 | 15 | \$22,800 | 94% | 0.1 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Office | Cooling Unitary | Existing | building | 20,826 | 4.9% | 0.05 | 15 | \$16,437 | 71% | 0.0 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Office | Cooling Unitary | New | building | 20,826 | 2.3% | 0.02 | 15 | \$15,624 | 94% | 0.0 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Office | Cooling Unitary | Existing | building | 20,826 | 1.4% | 0.04 | 15 | \$165 | 20% | 1.2 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Office | Cooling Unitary | New | building | 20,826 | 1.4% | 0.04 | 15 | \$165 | 10% | 1.2 |
| FE-Penelec | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Office | Cooling Unitary | Existing | building | 11,454 | 13% | 0.1 | 1 | \$110 | 73% | 0.8 |
| FE-Penelec | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Office | Cooling Unitary | New | building | 11,454 | 13% | 0.1 | 1 | \$110 | 73% | 0.8 |
| FE-Penelec | ECM Motors for split systems | Std Shaded Pole Motor | Office | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.9 |
| FE-Penelec | ECM Motors for split systems | Std Shaded Pole Motor | Office | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.9 |
| FE-Penelec | Facility Commissioning | No Facility Commissioning | Office | Cooling Unitary | New | building | 20,826 | 16% | 0.2 | 10 | \$618 | 89% | 2.2 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Office | Cooling Unitary | Existing | building | 20,826 | 7.1% | 0.07 | 15 | \$92,381 | 25% | 0.0 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Office | Cooling Unitary | New | building | 20,826 | 7.0% | 0.07 | 15 | \$92,381 | 35% | 0.0 |
| FE-Penelec | Hi Eff HVAC System Design | No HVAC Design | Office | Cooling Unitary | New | building | 20,826 | 0.8% | 0.01 | 10 | \$107 | 51% | 0.6 |
| FE-Penelec | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Office | Cooling Unitary | Existing | building | 20,826 | 5.0% | 0.05 | 5 | \$225 | 59% | 1.1 |
| FE-Penelec | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Office | Cooling Unitary | Existing | building | 20,826 | 0.5% | 0.04 | 5 | \$225 | 51% | 0.2 |
| FE-Penelec | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Office | Cooling Unitary | New | building | 20,826 | 0.5% | 0.04 | 5 | \$135 | 51% | 0.3 |
| FE-Penelec | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Office | Cooling Unitary | Existing | building | 20,826 | 2.8% | 0.03 | 10 | \$5,750 | 86% | 0.0 |
| FE-Penelec | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Office | Cooling Unitary | New | building | 20,826 | 2.8% | 0.03 | 10 | \$5,750 | 86% | 0.0 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) | Office | Cooling Unitary | Existing | building | 20,826 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.6 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Office | Cooling Unitary | New | building | 20,826 | 1.7% | 0.02 | 11 | \$146 | 49% | 1.1 |
| FE-Penelec | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Office | Cooling Unitary | Early | unit | 531 | 19% | 0.07 | 15 | \$849 | 85% | 0.1 |
| FE-Penelec | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Office | Cooling Unitary | New | unit | 536 | 20% | 0.08 | 15 | \$356 | 85% | 0.4 |
| FE-Penelec | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Office | Cooling Unitary | ROB | unit | 536 | 20% | 0.08 | 15 | \$356 | 85% | 0.4 |
| FE-Penelec | Re-Commissioning (Existing Construction) | No Re-Commissioning | Office | Cooling Unitary | Existing | building | 20,826 | 16% | 0.2 | 5 | \$7,777 | 86% | 0.1 |
| FE-Penelec | Room AC (w/ louvered sides) | Exisiting efficiency Room AC in Pennsylvania (2000 Federal Standards) | Office | Cooling Unitary | Early | ton | 595 | 13% | 0.03 | 9 | \$348 | 82% | 0.1 |
| FE-Penelec | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Office | Cooling Unitary | New | ton | 539 | 4.5% | 0.01 | 9 | \$17 | 82% | 0.8 |
| FE-Penelec | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Office | Cooling Unitary | ROB | ton | 539 | 4.5% | 0.01 | 9 | \$17 | 82% | 0.8 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Office | Cooling Unitary | Existing | building | 20,826 | 15% | 0.2 | 15 | \$5,028 | 26% | 0.4 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|--|---|---------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Office | Cooling Unitary | New | building | 20,826 | 0.5% | 0.01 | 15 | \$3,857 | 94% | 0.0 |
| FE-Penelec | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Office | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 1.1 |
| FE-Penelec | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Office | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.4 |
| FE-Penelec | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Office | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.4 |
| FE-Penelec | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Office | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 0% | 0.2 |
| FE-Penelec | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Office | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-Penelec | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Office | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-Penelec | LED exterior lighting | 250 Watt Incandescent | Office | Ext. Lighting | ROB | measure | 262 | 83% | 0.05 | 15 | \$104 | 89% | 1.6 |
| FE-Penelec | LED exterior lighting | 250 Watt Incandescent | Office | Ext. Lighting | ROB | measure | 277 | 83% | 0.05 | 15 | \$104 | 89% | 1.6 |
| FE-Penelec | LED exterior lighting | 250 Watt Incandescent | Office | Ext. Lighting | ROB | measure | 277 | 83% | 0.05 | 15 | \$104 | 89% | 1.6 |
| FE-Penelec | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Office | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 53% | 0.3 |
| FE-Penelec | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Office | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 53% | 0.2 |
| FE-Penelec | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Office | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 53% | 2.8 |
| FE-Penelec | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Office | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 53% | 2.1 |
| FE-Penelec | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Office | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 53% | 2.8 |
| FE-Penelec | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Office | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 53% | 2.1 |
| FE-Penelec | Photocell Controls (Outdoor) | Lighting w/ No Controls | Office | Ext. Lighting | Existing | building | 223 | 28% | 0.3 | 8 | \$3,091 | 88% | 0.1 |
| FE-Penelec | Photocell Controls (Outdoor) | Lighting w/ No Controls | Office | Ext. Lighting | New | building | 223 | 28% | 0.3 | 8 | \$3,091 | 0% | 0.1 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Office | Heat Pump | Existing | building | 2,342 | 6.9% | 0.07 | 6 | \$12,205 | 82% | 0.0 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Office | Heat Pump | New | building | 2,342 | 6.9% | 0.07 | 6 | \$12,205 | 82% | 0.0 |
| FE-Penelec | Adding window shade film | No shade film | Office | Heat Pump | Existing | building | 2,342 | 3.9% | 0.4 | 10 | \$28 | 12% | 10.3 |
| FE-Penelec | Adding window shade film | No shade film | Office | Heat Pump | New | building | 2,342 | 3.9% | 0.4 | 10 | \$28 | 12% | 10.3 |
| FE-Penelec | Adding window shade screen | No shade screen | Office | Heat Pump | Existing | building | 2,342 | 0.3% | 0.01 | 10 | \$3.7 | 12% | 2.7 |
| FE-Penelec | Adding window shade screen | No shade screen | Office | Heat Pump | New | building | 2,342 | 0.3% | 0.01 | 10 | \$3.7 | 12% | 2.7 |
| FE-Penelec | Automated control system | Manual Controls | Office | Heat Pump | Existing | building | 2,342 | 17% | 0.2 | 15 | \$2,564 | 51% | 0.1 |
| FE-Penelec | Automated control system | Manual Controls | Office | Heat Pump | New | building | 2,342 | 17% | 0.2 | 15 | \$2,564 | 94% | 0.1 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Office | Heat Pump | Existing | building | 2,342 | 4.9% | 0.05 | 15 | \$16,437 | 71% | 0.0 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Office | Heat Pump | New | building | 2,342 | 2.3% | 0.02 | 15 | \$15,624 | 94% | 0.0 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Office | Heat Pump | Existing | building | 2,342 | 4.0% | 0.04 | 15 | \$19 | 12% | 4.5 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Office | Heat Pump | New | building | 2,342 | 4.0% | 0.04 | 15 | \$19 | 6% | 4.5 |
| FE-Penelec | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Office | Heat Pump | Early | heat pump | 1,025 | 13% | 0.01 | 15 | \$4,070 | 83% | 0.0 |
| FE-Penelec | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Office | Heat Pump | New | heat pump | 968 | 7.7% | 0.01 | 15 | \$1,097 | 83% | 0.0 |
| FE-Penelec | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Office | Heat Pump | ROB | heat pump | 968 | 7.7% | 0.01 | 15 | \$1,097 | 83% | 0.0 |
| FE-Penelec | Facility Commissioning | No Facility Commissioning | Office | Heat Pump | New | building | 2,342 | 16% | 0.2 | 10 | \$46,906 | 89% | 0.0 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Office | Heat Pump | Existing | building | 2,342 | 7.0% | 0.07 | 15 | \$10,387 | 25% | 0.0 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Office | Heat Pump | New | building | 2,342 | 7.0% | 0.07 | 15 | \$10,387 | 35% | 0.0 |
| FE-Penelec | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Office | Heat Pump | Early | heat pump | 9,981 | 18% | 0.2 | 15 | \$91,117 | 19% | 0.0 |
| FE-Penelec | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Office | Heat Pump | New | heat pump | 9,551 | 14% | 0.1 | 15 | \$33,927 | 19% | 0.0 |
| FE-Penelec | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Office | Heat Pump | ROB | heat pump | 9,551 | 14% | 0.1 | 15 | \$33,927 | 19% | 0.0 |
| FE-Penelec | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Office | Heat Pump | Early | heat pump | 9,981 | 18% | 0.2 | 15 | \$58,356 | 19% | 0.0 |
| FE-Penelec | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Office | Heat Pump | New | heat pump | 9,551 | 14% | 0.1 | 15 | \$1,167 | 19% | 0.7 |
| FE-Penelec | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Office | Heat Pump | ROB | heat pump | 9,551 | 14% | 0.1 | 15 | \$1,167 | 19% | 0.7 |
| FE-Penelec | Hi Eff HVAC System Design | No HVAC Design | Office | Heat Pump | New | building | 2,342 | 0.7% | 0.01 | 10 | \$1,063 | 51% | 0.0 |
| FE-Penelec | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Office | Heat Pump | Early | heat pump | 2,545 | 17% | 0.04 | 12 | \$4,298 | 81% | 0.0 |
| FE-Penelec | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Office | Heat Pump | New | heat pump | 2,406 | 13% | 0.03 | 12 | \$852 | 81% | 0.2 |
| FE-Penelec | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Office | Heat Pump | ROB | heat pump | 2,406 | 13% | 0.03 | 12 | \$852 | 81% | 0.2 |
| FE-Penelec | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Office | Heat Pump | Existing | building | 2,342 | 5.0% | 0.01 | 5 | \$90 | 51% | 0.3 |
| FE-Penelec | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Office | Heat Pump | New | building | 2,342 | 5.0% | 0.01 | 5 | \$90 | 51% | 0.3 |
| FE-Penelec | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Office | Heat Pump | Existing | building | 2,342 | 2.8% | 0.03 | 10 | \$5,119 | 81% | 0.0 |
| FE-Penelec | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Office | Heat Pump | New | building | 2,342 | 2.8% | 0.03 | 10 | \$5,119 | 81% | 0.0 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Office | Heat Pump | Existing | building | 2,342 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.1 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Office | Heat Pump | New | building | 2,342 | 2.1% | 0.02 | 11 | \$146 | 49% | 0.2 |
| FE-Penelec | Re-Commissioning (Existing Construction) | No Re-Commissioning | Office | Heat Pump | Existing | building | 2,342 | 16% | 0.2 | 5 | \$7,777 | 86% | 0.0 |
| FE-Penelec | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Office | Heat Pump | New | measure | 1,496,631 | 2.0% | 3.4 | 13 | \$188,409 | 43% | 0.1 |
| FE-Penelec | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Office | Heat Pump | ROB | measure | 1,496,631 | 2.0% | 3.4 | 13 | \$188,409 | 43% | 0.1 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Office | Heat Pump | Existing | building | 2,342 | 15% | 0.2 | 15 | \$5,028 | 26% | 0.1 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Office | Heat Pump | New | building | 2,342 | 0.5% | 0.01 | 15 | \$3,857 | 94% | 0.0 |
| FE-Penelec | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Office | Heat Pump | Early | heat pump | 4,011 | 32% | 0.1 | 15 | \$35,347 | 28% | 0.0 |
| FE-Penelec | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Office | Heat Pump | New | heat pump | 3,767 | 28% | 0.09 | 15 | \$15,739 | 28% | 0.0 |
| FE-Penelec | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Office | Heat Pump | ROB | heat pump | 3,767 | 28% | 0.09 | 15 | \$15,739 | 28% | 0.0 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Office | High Bay Lighting | Early | Fixture | 483 | 9.6% | 0.01 | 13 | \$850 | 39% | 0.0 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Office | High Bay Lighting | Early | Fixture | 483 | 9.5% | 0.01 | 13 | \$850 | 28% | 0.0 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Office | High Bay Lighting | Early | Fixture | 745 | 41% | 0.08 | 13 | \$850 | 36% | 0.2 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Office | High Bay Lighting | New | Fixture | 367 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|---|---------|-------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Office | High Bay Lighting | New | Fixture | 342 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Office | High Bay Lighting | New | Fixture | 566 | 41% | 0.06 | 13 | \$397 | 36% | 0.4 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Office | High Bay Lighting | ROB | Fixture | 483 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Office | High Bay Lighting | ROB | Fixture | 450 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Office | High Bay Lighting | ROB | Fixture | 745 | 41% | 0.08 | 13 | \$397 | 36% | 0.5 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Office | High Bay Lighting | Early | Fixture | 938 | 19% | 0.05 | 13 | \$851 | 38% | 0.1 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Office | High Bay Lighting | Early | Fixture | 950 | 20% | 0.05 | 13 | \$851 | 38% | 0.2 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | Early | Fixture | 2,762 | 73% | 0.5 | 13 | \$851 | 38% | 1.6 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Office | High Bay Lighting | New | Fixture | 713 | 19% | 0.03 | 13 | \$372 | 38% | 0.2 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | New | Fixture | 2,099 | 73% | 0.4 | 13 | \$383 | 38% | 2.7 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Office | High Bay Lighting | ROB | Fixture | 938 | 19% | 0.05 | 13 | \$372 | 38% | 0.3 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | ROB | Fixture | 2,762 | 73% | 0.5 | 13 | \$383 | 38% | 3.5 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Office | High Bay Lighting | Early | Fixture | 938 | 25% | 0.06 | 13 | \$554 | 29% | 0.3 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Office | High Bay Lighting | Early | Fixture | 920 | 23% | 0.05 | 13 | \$554 | 28% | 0.3 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | Early | Fixture | 2,762 | 74% | 0.5 | 13 | \$554 | 36% | 2.5 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Office | High Bay Lighting | New | Fixture | 713 | 25% | 0.04 | 13 | \$75 | 29% | 1.6 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | New | Fixture | 2,099 | 74% | 0.4 | 13 | \$86 | 36% | 12.3 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Office | High Bay Lighting | ROB | Fixture | 938 | 25% | 0.06 | 13 | \$75 | 29% | 2.1 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | ROB | Fixture | 2,762 | 74% | 0.5 | 13 | \$86 | 36% | 16.2 |
| FE-Penelec | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Office | High Bay Lighting | Early | Fixture | 245 | 0.2% | 0.00 | 13 | \$835 | 38% | 0.0 |
| FE-Penelec | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Office | High Bay Lighting | Early | Fixture | 527 | 54% | 0.07 | 13 | \$835 | 38% | 0.2 |
| FE-Penelec | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Office | High Bay Lighting | New | Fixture | 400 | 54% | 0.05 | 13 | \$382 | 38% | 0.4 |
| FE-Penelec | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Office | High Bay Lighting | ROB | Fixture | 527 | 54% | 0.07 | 13 | \$382 | 38% | 0.5 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Office | High Bay Lighting | Early | Fixture | 1,195 | 18% | 0.05 | 13 | \$487 | 25% | 0.3 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Office | High Bay Lighting | Early | Fixture | 1,249 | 22% | 0.07 | 13 | \$487 | 28% | 0.4 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | Early | Fixture | 2,762 | 65% | 0.4 | 13 | \$487 | 36% | 2.5 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Office | High Bay Lighting | New | Fixture | 908 | 18% | 0.04 | 13 | \$16 | 25% | 6.9 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | New | Fixture | 2,099 | 65% | 0.3 | 13 | \$18 | 36% | 49.7 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Office | High Bay Lighting | ROB | Fixture | 1,195 | 18% | 0.05 | 13 | \$16 | 25% | 9.0 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | ROB | Fixture | 2,762 | 65% | 0.4 | 13 | \$18 | 36% | 65.4 |
| FE-Penelec | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Office | High Bay Lighting | Early | Fixture | 1,195 | 1.5% | 0.00 | 13 | \$557 | 19% | 0.0 |
| FE-Penelec | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Office | High Bay Lighting | Early | Fixture | 1,230 | 4.3% | 0.01 | 13 | \$557 | 19% | 0.1 |
| FE-Penelec | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | Early | Fixture | 2,762 | 57% | 0.4 | 13 | \$557 | 19% | 1.9 |
| FE-Penelec | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Office | High Bay Lighting | New | Fixture | 908 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| FE-Penelec | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | New | Fixture | 2,099 | 57% | 0.3 | 13 | \$88 | 19% | 9.2 |
| FE-Penelec | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Office | High Bay Lighting | ROB | Fixture | 1,195 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| FE-Penelec | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | ROB | Fixture | 2,762 | 57% | 0.4 | 13 | \$88 | 19% | 12.1 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Office | High Bay Lighting | Early | Fixture | 507 | 29% | 0.03 | 13 | \$492 | 71% | 0.2 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Office | High Bay Lighting | Early | Fixture | 424 | 15% | 0.01 | 13 | \$492 | 95% | 0.1 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Office | High Bay Lighting | Early | Fixture | 630 | 43% | 0.05 | 13 | \$492 | 95% | 0.3 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Office | High Bay Lighting | Early | Fixture | 584 | 38% | 0.04 | 13 | \$492 | 95% | 0.3 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Office | High Bay Lighting | New | Fixture | 322 | 15% | 0.01 | 13 | \$25 | 95% | 1.2 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Office | High Bay Lighting | New | Fixture | 479 | 43% | 0.04 | 13 | \$51 | 95% | 2.4 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Office | High Bay Lighting | ROB | Fixture | 424 | 15% | 0.01 | 13 | \$25 | 95% | 1.6 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Office | High Bay Lighting | ROB | Fixture | 630 | 43% | 0.05 | 13 | \$51 | 95% | 3.2 |
| FE-Penelec | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Office | High Bay Lighting | Early | lamp | 86 | 16% | 0.00 | 12 | \$7.7 | 99% | 1.1 |
| FE-Penelec | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Office | High Bay Lighting | New | lamp | 51 | 13% | 0.00 | 12 | \$1.6 | 91% | 2.4 |
| FE-Penelec | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Office | High Bay Lighting | ROB | lamp | 82 | 13% | 0.00 | 12 | \$1.6 | 91% | 3.9 |
| FE-Penelec | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Office | High Bay Lighting | Early | Fixture | 2,826 | 23% | 0.2 | 13 | \$613 | 5% | 0.7 |
| FE-Penelec | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Office | High Bay Lighting | Early | Fixture | 2,220 | 1.6% | 0.01 | 13 | \$613 | 28% | 0.0 |
| FE-Penelec | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Office | High Bay Lighting | Early | Fixture | 5,524 | 60% | 0.8 | 13 | \$613 | 18% | 3.7 |
| FE-Penelec | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Office | High Bay Lighting | New | Fixture | 2,148 | 23% | 0.1 | 13 | \$96 | 5% | 3.4 |
| FE-Penelec | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Office | High Bay Lighting | ROB | Fixture | 2,826 | 23% | 0.2 | 13 | \$96 | 5% | 4.5 |
| FE-Penelec | Auto Off Time Switch | Lighting w/ No Controls | Office | High Bay Lighting | Existing | building | 801 | 24% | 0.2 | 8 | \$628 | 13% | 0.3 |
| FE-Penelec | Auto Off Time Switch | Lighting w/ No Controls | Office | High Bay Lighting | New | building | 801 | 6.9% | 0.07 | 8 | \$628 | 0% | 0.1 |
| FE-Penelec | Central Lighting Control System | Lighting w/ No Controls | Office | High Bay Lighting | Existing | building | 801 | 38% | 0.4 | 8 | \$628 | 13% | 0.5 |
| FE-Penelec | Central Lighting Control System | Lighting w/ No Controls | Office | High Bay Lighting | New | building | 801 | 14% | 0.1 | 8 | \$628 | 13% | 0.2 |
| FE-Penelec | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Office | High Bay Lighting | New | building | 801 | 10% | 0.1 | 15 | \$28,258 | 32% | 0.0 |
| FE-Penelec | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Office | High Bay Lighting | New | building | 801 | 15% | 0.2 | 15 | \$70,645 | 32% | 0.0 |
| FE-Penelec | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Office | High Bay Lighting | New | building | 801 | 30% | 0.3 | 15 | \$101,258 | 32% | 0.0 |
| FE-Penelec | Indoor Daylight Sensors | Lighting w/ No Controls | Office | High Bay Lighting | Existing | building | 801 | 28% | 0.3 | 8 | \$3,091 | 13% | 0.1 |
| FE-Penelec | Indoor Daylight Sensors | Lighting w/ No Controls | Office | High Bay Lighting | New | building | 801 | 4.1% | 0.04 | 8 | \$3,091 | 0% | 0.0 |
| FE-Penelec | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Office | High Bay Lighting | Early | Fixture | 2,826 | 92% | 0.7 | 13 | \$1,916 | 95% | 0.9 |
| FE-Penelec | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | Early | Fixture | 5,524 | 96% | 1.3 | 13 | \$1,916 | 95% | 1.9 |
| FE-Penelec | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Office | High Bay Lighting | New | Fixture | 2,148 | 92% | 0.5 | 13 | \$1,468 | 95% | 0.9 |
| FE-Penelec | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | New | Fixture | 4,198 | 96% | 1.0 | 13 | \$1,149 | 95% | 2.4 |
| FE-Penelec | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Office | High Bay Lighting | ROB | Fixture | 2,826 | 92% | 0.7 | 13 | \$1,468 | 95% | 1.2 |
| FE-Penelec | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | ROB | Fixture | 5,524 | 96% | 1.3 | 13 | \$1,149 | 95% | 3.1 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Office | High Bay Lighting | Early | Fixture | 938 | 67% | 0.2 | 13 | \$960 | 95% | 0.4 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Office | High Bay Lighting | Early | Fixture | 2,762 | 89% | 0.6 | 13 | \$960 | 95% | 1.7 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Office | High Bay Lighting | Early | Fixture | 758 | 59% | 0.1 | 13 | \$960 | 95% | 0.3 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Office | High Bay Lighting | New | Fixture | 713 | 67% | 0.1 | 13 | \$480 | 95% | 0.7 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Office | High Bay Lighting | New | Fixture | 2,099 | 89% | 0.5 | 13 | \$491 | 95% | 2.6 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Office | High Bay Lighting | New | Fixture | 576 | 59% | 0.08 | 13 | \$406 | 95% | 0.6 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|--|---------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Office | High Bay Lighting | ROB | Fixture | 938 | 67% | 0.2 | 13 | \$480 | 95% | 0.9 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Office | High Bay Lighting | ROB | Fixture | 2,762 | 89% | 0.6 | 13 | \$491 | 95% | 3.4 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Office | High Bay Lighting | ROB | Fixture | 758 | 59% | 0.1 | 13 | \$406 | 95% | 0.7 |
| FE-Penelec | Occupancy Sensor | Lighting w/ No Controls | Office | High Bay Lighting | Existing | building | 801 | 24% | 0.2 | 8 | \$946 | 12% | 0.2 |
| FE-Penelec | Occupancy Sensor | Lighting w/ No Controls | Office | High Bay Lighting | New | building | 801 | 6.9% | 0.07 | 8 | \$946 | 0% | 0.1 |
| FE-Penelec | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Office | High Bay Lighting | Existing | building | 801 | 28% | 0.3 | 8 | \$3,091 | 12% | 0.1 |
| FE-Penelec | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Office | High Bay Lighting | New | building | 801 | 4.0% | 0.04 | 8 | \$3,091 | 0% | 0.0 |
| FE-Penelec | Time Clock Control | Lighting w/ No Controls | Office | High Bay Lighting | Existing | building | 801 | 28% | 0.3 | 8 | \$628 | 13% | 0.4 |
| FE-Penelec | Time Clock Control | Lighting w/ No Controls | Office | High Bay Lighting | New | building | 801 | 4.1% | 0.04 | 8 | \$628 | 0% | 0.1 |
| FE-Penelec | Auto Off Time Switch | Lighting w/ No Controls | Office | Lin. Fluor. Lighting | Existing | building | 10,983 | 24% | 0.2 | 8 | \$628 | 13% | 1.5 |
| FE-Penelec | Auto Off Time Switch | Lighting w/ No Controls | Office | Lin. Fluor. Lighting | New | building | 10,983 | 6.9% | 0.07 | 8 | \$628 | 0% | 0.4 |
| FE-Penelec | Central Lighting Control System | Lighting w/ No Controls | Office | Lin. Fluor. Lighting | Existing | building | 10,983 | 38% | 0.4 | 8 | \$628 | 12% | 2.4 |
| FE-Penelec | Central Lighting Control System | Lighting w/ No Controls | Office | Lin. Fluor. Lighting | New | building | 10,983 | 14% | 0.1 | 8 | \$628 | 12% | 0.9 |
| FE-Penelec | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Office | Lin. Fluor. Lighting | New | building | 10,983 | 10% | 0.1 | 15 | \$28,258 | 32% | 0.0 |
| FE-Penelec | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Office | Lin. Fluor. Lighting | New | building | 10,983 | 15% | 0.2 | 15 | \$70,645 | 32% | 0.0 |
| FE-Penelec | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Office | Lin. Fluor. Lighting | New | building | 10,983 | 30% | 0.3 | 15 | \$101,258 | 32% | 0.0 |
| FE-Penelec | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Office | Lin. Fluor. Lighting | Early | Lamp | 172 | 38% | 0.01 | 12 | \$7.3 | 94% | 5.2 |
| FE-Penelec | Indoor Daylight Sensors | Lighting w/ No Controls | Office | Lin. Fluor. Lighting | Existing | building | 10,983 | 28% | 0.3 | 8 | \$3,091 | 13% | 0.4 |
| FE-Penelec | Indoor Daylight Sensors | Lighting w/ No Controls | Office | Lin. Fluor. Lighting | New | building | 10,983 | 4.1% | 0.04 | 8 | \$3,091 | 0% | 0.1 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Office | Lin. Fluor. Lighting | Early | Lamp | 61 | 19% | 0.00 | 15 | \$35 | 94% | 0.3 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 40W T12 Lamp, Magnetic Ballast | Office | Lin. Fluor. Lighting | Early | Lamp | 134 | 63% | 0.02 | 15 | \$35 | 94% | 1.8 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Office | Lin. Fluor. Lighting | Early | Lamp | 75 | 34% | 0.01 | 15 | \$35 | 94% | 0.6 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Office | Lin. Fluor. Lighting | Early | Lamp | 73 | 32% | 0.01 | 15 | \$35 | 94% | 0.5 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Office | Lin. Fluor. Lighting | New | Lamp | 47 | 19% | 0.00 | 15 | \$28 | 94% | 0.2 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Office | Lin. Fluor. Lighting | New | Lamp | 56 | 32% | 0.00 | 15 | \$29 | 94% | 0.5 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Office | Lin. Fluor. Lighting | New | Lamp | 57 | 34% | 0.00 | 15 | \$22 | 94% | 0.7 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Office | Lin. Fluor. Lighting | New | Lamp | 56 | 32% | 0.00 | 15 | \$29 | 94% | 0.5 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Office | Lin. Fluor. Lighting | ROB | Lamp | 61 | 19% | 0.00 | 15 | \$28 | 94% | 0.3 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Office | Lin. Fluor. Lighting | ROB | Lamp | 73 | 32% | 0.01 | 15 | \$29 | 94% | 0.6 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Office | Lin. Fluor. Lighting | ROB | Lamp | 75 | 34% | 0.01 | 15 | \$22 | 94% | 0.9 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Office | Lin. Fluor. Lighting | ROB | Lamp | 73 | 32% | 0.01 | 15 | \$29 | 94% | 0.6 |
| FE-Penelec | Occupancy Sensor | Lighting w/ No Controls | Office | Lin. Fluor. Lighting | Existing | building | 10,983 | 24% | 0.2 | 8 | \$946 | 13% | 1.0 |
| FE-Penelec | Occupancy Sensor | Lighting w/ No Controls | Office | Lin. Fluor. Lighting | New | building | 10,983 | 7.0% | 0.07 | 8 | \$946 | 0% | 0.3 |
| FE-Penelec | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Office | Lin. Fluor. Lighting | Existing | building | 10,983 | 28% | 0.3 | 8 | \$3,091 | 12% | 0.4 |
| FE-Penelec | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Office | Lin. Fluor. Lighting | New | building | 10,983 | 4.1% | 0.04 | 8 | \$3,091 | 0% | 0.1 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 40W T12 w/ Magnetic Ballast | Office | Lin. Fluor. Lighting | Early | Lamp | 172 | 54% | 0.02 | 12 | \$9.1 | 94% | 6.0 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Office | Lin. Fluor. Lighting | Early | Lamp | 110 | 28% | 0.01 | 12 | \$9.1 | 24% | 2.0 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Office | Lin. Fluor. Lighting | Early | Lamp | 107 | 26% | 0.01 | 12 | \$9.1 | 94% | 1.8 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Office | Lin. Fluor. Lighting | New | Lamp | 81 | 26% | 0.00 | 12 | \$2.5 | 94% | 4.9 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Office | Lin. Fluor. Lighting | New | Lamp | 81 | 26% | 0.00 | 12 | \$2.5 | 94% | 4.9 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Office | Lin. Fluor. Lighting | New | Lamp | 84 | 28% | 0.00 | 12 | \$2.5 | 24% | 5.5 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Office | Lin. Fluor. Lighting | New | Lamp | 81 | 26% | 0.00 | 12 | \$2.5 | 94% | 4.9 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Office | Lin. Fluor. Lighting | ROB | Lamp | 107 | 26% | 0.01 | 12 | \$2.5 | 94% | 6.4 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Office | Lin. Fluor. Lighting | ROB | Lamp | 107 | 26% | 0.01 | 12 | \$2.5 | 94% | 6.4 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Office | Lin. Fluor. Lighting | ROB | Lamp | 110 | 28% | 0.01 | 12 | \$2.5 | 24% | 7.2 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Office | Lin. Fluor. Lighting | ROB | Lamp | 107 | 26% | 0.01 | 12 | \$2.5 | 94% | 6.4 |
| FE-Penelec | T8 Lamp (any length) Electronic Ballast | Standard T12 lamp (any length) | Office | Lin. Fluor. Lighting | Early | Lamp | 202 | 42% | 0.02 | 13 | \$14 | 94% | 3.9 |
| FE-Penelec | Time Clock Control | Lighting w/ No Controls | Office | Lin. Fluor. Lighting | Existing | building | 10,983 | 28% | 0.3 | 8 | \$628 | 14% | 1.8 |
| FE-Penelec | Time Clock Control | Lighting w/ No Controls | Office | Lin. Fluor. Lighting | New | building | 10,983 | 4.1% | 0.04 | 8 | \$628 | 0% | 0.3 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Office | Motors | Early | motor | 1,702 | 3.6% | 0.01 | 15 | \$374 | 76% | 0.1 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Office | Motors | Early | motor | 1,702 | 3.6% | 0.01 | 15 | \$374 | 76% | 0.1 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Office | Motors | Early | motor | 1,702 | 3.6% | 0.01 | 15 | \$374 | 76% | 0.1 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Office | Motors | Early | motor | 1,702 | 3.6% | 0.01 | 15 | \$374 | 76% | 0.1 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Office | Motors | Early | motor | 1,702 | 3.6% | 0.01 | 15 | \$374 | 76% | 0.1 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Office | Motors | New | motor | 1,650 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.1 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Office | Motors | New | motor | 1,650 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.1 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Office | Motors | New | motor | 1,650 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.1 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Office | Motors | New | motor | 1,650 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.1 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Office | Motors | New | motor | 1,650 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.1 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Office | Motors | ROB | motor | 1,650 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.1 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Office | Motors | ROB | motor | 1,650 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.1 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Office | Motors | ROB | motor | 1,650 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.1 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Office | Motors | ROB | motor | 1,650 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|--|---------|---------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Office | Motors | New | motor | 11,629 | 0.5% | 0.01 | 15 | \$123 | 83% | 0.3 |
| FE-Penelec | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Office | Motors | New | motor | 11,629 | 0.5% | 0.01 | 15 | \$123 | 83% | 0.3 |
| FE-Penelec | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Office | Motors | New | motor | 11,629 | 0.5% | 0.01 | 15 | \$123 | 83% | 0.3 |
| FE-Penelec | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Office | Motors | New | motor | 11,629 | 0.5% | 0.01 | 15 | \$123 | 83% | 0.3 |
| FE-Penelec | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Office | Motors | New | motor | 11,629 | 0.5% | 0.01 | 15 | \$123 | 83% | 0.3 |
| FE-Penelec | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Office | Motors | ROB | motor | 11,629 | 0.5% | 0.01 | 15 | \$123 | 83% | 0.3 |
| FE-Penelec | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Office | Motors | ROB | motor | 11,629 | 0.5% | 0.01 | 15 | \$123 | 83% | 0.3 |
| FE-Penelec | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Office | Motors | ROB | motor | 11,629 | 0.5% | 0.01 | 15 | \$123 | 83% | 0.3 |
| FE-Penelec | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Office | Motors | ROB | motor | 11,629 | 0.5% | 0.01 | 15 | \$123 | 83% | 0.3 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Office | Motors | Early | motor | 112,321 | 1.3% | 0.2 | 15 | \$3,955 | 61% | 0.2 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Office | Motors | Early | motor | 112,321 | 1.3% | 0.2 | 15 | \$3,955 | 61% | 0.2 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Office | Motors | Early | motor | 112,321 | 1.3% | 0.2 | 15 | \$3,955 | 61% | 0.2 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Office | Motors | Early | motor | 112,321 | 1.3% | 0.2 | 15 | \$3,955 | 61% | 0.3 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Office | Motors | Early | motor | 112,321 | 1.3% | 0.2 | 15 | \$3,955 | 61% | 0.2 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Office | Motors | New | motor | 111,395 | 0.5% | 0.08 | 15 | \$554 | 61% | 0.7 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Office | Motors | New | motor | 111,395 | 0.5% | 0.08 | 15 | \$554 | 61% | 0.7 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Office | Motors | New | motor | 111,395 | 0.5% | 0.08 | 15 | \$554 | 61% | 0.7 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Office | Motors | New | motor | 111,395 | 0.5% | 0.08 | 15 | \$554 | 61% | 0.7 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Office | Motors | New | motor | 111,395 | 0.5% | 0.07 | 15 | \$554 | 61% | 0.7 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Office | Motors | ROB | motor | 111,395 | 0.5% | 0.08 | 15 | \$554 | 61% | 0.7 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Office | Motors | ROB | motor | 111,395 | 0.5% | 0.08 | 15 | \$554 | 61% | 0.7 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Office | Motors | ROB | motor | 111,395 | 0.5% | 0.08 | 15 | \$554 | 61% | 0.7 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Office | Motors | ROB | motor | 111,395 | 0.5% | 0.08 | 15 | \$554 | 61% | 0.7 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Office | Motors | ROB | motor | 111,395 | 0.5% | 0.07 | 15 | \$554 | 61% | 0.7 |
| FE-Penelec | CO sensors for parking garage exhaust fans | No CO Sensors | Office | Motors | Existing | building | 560 | 25% | 0.3 | 8 | \$65 | 4% | 2.9 |
| FE-Penelec | CO sensors for parking garage exhaust fans | No CO Sensors | Office | Motors | New | building | 560 | 25% | 0.3 | 8 | \$65 | 4% | 2.9 |
| FE-Penelec | demand controlled ventilation | Absence of Demand Controlled Ventilation | Office | Motors | Early | measure | 5,088 | 5.9% | 0.03 | 10 | \$41,922 | 92% | 0.0 |
| FE-Penelec | demand controlled ventilation | Office building thermostat | Office | Motors | New | measure | 5,088 | 5.9% | 0.03 | 10 | \$31,300 | 92% | 0.0 |
| FE-Penelec | demand controlled ventilation | Office building thermostat | Office | Motors | ROB | measure | 5,088 | 5.9% | 0.03 | 10 | \$31,300 | 92% | 0.0 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Office | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 21.9 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Office | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 22.3 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Office | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 22.6 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Office | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 23.3 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Office | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 23.6 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Office | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 21.6 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Office | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 22.2 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Office | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 22.5 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Office | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 23.1 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Office | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 23.8 |
| FE-Penelec | Escalator Motor Controller | Constant power control | Office | Motors | New | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 22% | 5.9 |
| FE-Penelec | Escalator Motor Controller | Constant power control | Office | Motors | ROB | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 22% | 5.9 |
| FE-Penelec | Fan Motor - correct sizing | Incorrect Fan Motor Sizing | Office | Motors | ROB | measure | 5,088 | 2.9% | 0.02 | 15 | \$50 | 92% | 1.8 |
| FE-Penelec | Variable Speed Drive Control, 15HP | Existing Motors w/out VSD Drive | Office | Motors | Early | motor | 23,258 | 70% | 2.4 | 15 | \$731 | 86% | 14.9 |
| FE-Penelec | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Office | Motors | New | motor | 22,758 | 72% | 2.4 | 15 | \$731 | 86% | 14.9 |
| FE-Penelec | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Office | Motors | ROB | motor | 22,758 | 72% | 2.4 | 15 | \$731 | 86% | 14.9 |
| FE-Penelec | Variable Speed Drive Control, 40HP | Existing Motors w/out VSD Drive | Office | Motors | Early | motor | 60,688 | 71% | 6.3 | 15 | \$4,666 | 86% | 6.1 |
| FE-Penelec | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Office | Motors | New | motor | 59,979 | 72% | 6.3 | 15 | \$4,666 | 86% | 6.1 |
| FE-Penelec | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Office | Motors | ROB | motor | 59,979 | 72% | 6.3 | 15 | \$4,666 | 86% | 6.1 |
| FE-Penelec | Variable Speed Drive Control, 5HP | Existing Motors w/out VFD Drive | Office | Motors | Early | motor | 8,063 | 70% | 0.8 | 15 | \$2,243 | 86% | 1.7 |
| FE-Penelec | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Office | Motors | New | motor | 7,883 | 72% | 0.8 | 15 | \$2,243 | 86% | 1.7 |
| FE-Penelec | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Office | Motors | ROB | motor | 7,883 | 72% | 0.8 | 15 | \$2,243 | 86% | 1.7 |
| FE-Penelec | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Office | Motors | Early | motor | 4,390 | 26% | 0.1 | 15 | \$268 | 13% | 2.6 |
| FE-Penelec | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Office | Motors | New | motor | 4,390 | 26% | 0.1 | 15 | \$268 | 13% | 2.6 |
| FE-Penelec | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Office | Motors | ROB | motor | 4,390 | 26% | 0.1 | 15 | \$268 | 13% | 2.6 |
| FE-Penelec | VFD on Chilled Water Pump | Motor w/out VFD Drive | Office | Motors | Early | motor | 15,151 | 54% | 2.7 | 15 | \$2,903 | 86% | 2.3 |
| FE-Penelec | VFD on Chilled Water Pump | Motor w/out VFD Drive | Office | Motors | New | motor | 14,867 | 55% | 2.7 | 15 | \$2,843 | 86% | 2.3 |
| FE-Penelec | VFD on Chilled Water Pump | Motor w/out VFD Drive | Office | Motors | ROB | motor | 14,867 | 55% | 2.7 | 15 | \$2,843 | 86% | 2.3 |
| FE-Penelec | VFD on Condenser Water Pump | Motor w/out VFD Drive | Office | Motors | Early | motor | 15,040 | 32% | 3.2 | 15 | \$2,903 | 86% | 1.9 |
| FE-Penelec | VFD on Condenser Water Pump | Motor w/out VFD Drive | Office | Motors | New | motor | 14,759 | 33% | 3.1 | 15 | \$2,843 | 86% | 1.9 |
| FE-Penelec | VFD on Condenser Water Pump | Motor w/out VFD Drive | Office | Motors | ROB | motor | 14,759 | 33% | 3.1 | 15 | \$2,843 | 86% | 1.9 |
| FE-Penelec | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Office | Motors | Early | motor | 31,171 | 56% | 0.00 | 15 | \$2,903 | 86% | 3.0 |
| FE-Penelec | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Office | Motors | New | motor | 30,588 | 57% | 0.00 | 15 | \$2,843 | 86% | 3.1 |
| FE-Penelec | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Office | Motors | ROB | motor | 30,588 | 57% | 0.00 | 15 | \$2,843 | 86% | 3.1 |
| FE-Penelec | VFD on HVAC Fan | Motor w/out VFD | Office | Motors | Early | motor | 15,151 | 70% | 3.4 | 15 | \$2,903 | 86% | 3.0 |
| FE-Penelec | VFD on HVAC Fan | Motor w/out VFD | Office | Motors | New | motor | 14,867 | 72% | 3.3 | 15 | \$2,843 | 86% | 3.1 |
| FE-Penelec | VFD on HVAC Fan | Motor w/out VFD | Office | Motors | ROB | motor | 14,867 | 72% | 3.3 | 15 | \$2,843 | 86% | 3.1 |
| FE-Penelec | Elevators | Std. Eff Elevator | Office | Other | ROB | measure | 89,016 | 2.8% | 0.4 | 15 | \$1,228 | 63% | 1.4 |
| FE-Penelec | Variable Speed Drives on Process Equipment | Constant speed control | Office | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 10.6 |
| FE-Penelec | Variable Speed Drives on Process Equipment | Constant speed control | Office | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 10.6 |
| FE-Penelec | Auto Off Time Switch | Lighting w/ No Controls | Office | Other Int. Lighting | Existing | building | 4,354 | 24% | 0.2 | 8 | \$628 | 13% | 0.7 |
| FE-Penelec | Auto Off Time Switch | Lighting w/ No Controls | Office | Other Int. Lighting | New | building | 4,354 | 7.0% | 0.07 | 8 | \$628 | 0% | 0.2 |
| FE-Penelec | Central Lighting Control System | Lighting w/ No Controls | Office | Other Int. Lighting | Existing | building | 4,354 | 38% | 0.4 | 8 | \$628 | 13% | 1.2 |
| FE-Penelec | Central Lighting Control System | Lighting w/ No Controls | Office | Other Int. Lighting | New | building | 4,354 | 14% | 0.1 | 8 | \$628 | 13% | 0.4 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 40W Incandescent Bulb | Office | Other Int. Lighting | Early | lamp | 141 | 87% | 0.03 | 11 | \$30 | 14% | 2.4 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Office | Other Int. Lighting | Early | lamp | 101 | 81% | 0.02 | 11 | \$30 | 11% | 1.6 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Office | Other Int. Lighting | New | lamp | 77 | 81% | 0.02 | 11 | \$21 | 14% | 1.7 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|--|---------|---------------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Office | Other Int. Lighting | New | lamp | 77 | 81% | 0.02 | 11 | \$23 | 14% | 1.6 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Office | Other Int. Lighting | New | lamp | 77 | 81% | 0.02 | 11 | \$22 | 11% | 1.7 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Office | Other Int. Lighting | ROB | lamp | 101 | 81% | 0.02 | 11 | \$21 | 14% | 2.3 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Office | Other Int. Lighting | ROB | lamp | 101 | 81% | 0.02 | 11 | \$23 | 14% | 2.1 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Office | Other Int. Lighting | ROB | lamp | 101 | 81% | 0.02 | 11 | \$22 | 11% | 2.2 |
| FE-Penelec | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Office | Other Int. Lighting | Early | lamp | 141 | 75% | 0.03 | 4 | \$73 | 39% | 0.4 |
| FE-Penelec | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Office | Other Int. Lighting | New | fixture | 154 | 65% | 0.02 | 13 | \$29 | 46% | 2.4 |
| FE-Penelec | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Office | Other Int. Lighting | New | lamp | 77 | 65% | 0.01 | 4 | \$29 | 46% | 0.4 |
| FE-Penelec | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Office | Other Int. Lighting | ROB | fixture | 203 | 65% | 0.03 | 13 | \$29 | 39% | 3.1 |
| FE-Penelec | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Office | Other Int. Lighting | ROB | lamp | 101 | 65% | 0.02 | 4 | \$29 | 39% | 0.6 |
| FE-Penelec | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Office | Other Int. Lighting | Early | lamp | 141 | 75% | 0.03 | 4 | \$3.2 | 24% | 8.4 |
| FE-Penelec | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Office | Other Int. Lighting | New | lamp | 77 | 65% | 0.01 | 4 | \$1.8 | 24% | 7.2 |
| FE-Penelec | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Office | Other Int. Lighting | ROB | lamp | 101 | 65% | 0.02 | 4 | \$1.8 | 24% | 9.4 |
| FE-Penelec | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Office | Other Int. Lighting | ROB | lamp | 101 | 65% | 0.02 | 4 | \$1.8 | 24% | 9.4 |
| FE-Penelec | Exit Sign Retrofit: CFL replacing Incandescent | One 23W Single Sided Incandescent Exit Sign | Office | Other Int. Lighting | Early | exit sign | 140 | 42% | 0.01 | 15 | \$48 | 22% | 0.8 |
| FE-Penelec | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Office | Other Int. Lighting | New | building | 4,354 | 10% | 0.1 | 15 | \$28,258 | 32% | 0.0 |
| FE-Penelec | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Office | Other Int. Lighting | New | building | 4,354 | 15% | 0.2 | 15 | \$70,645 | 32% | 0.0 |
| FE-Penelec | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Office | Other Int. Lighting | New | building | 4,354 | 30% | 0.3 | 15 | \$101,258 | 32% | 0.0 |
| FE-Penelec | Indoor Daylight Sensors | Lighting w/ No Controls | Office | Other Int. Lighting | Existing | building | 4,354 | 28% | 0.3 | 8 | \$3,091 | 13% | 0.2 |
| FE-Penelec | Indoor Daylight Sensors | Lighting w/ No Controls | Office | Other Int. Lighting | New | building | 4,354 | 4.1% | 0.04 | 8 | \$3,091 | 0% | 0.0 |
| FE-Penelec | LED Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Office | Other Int. Lighting | Early | sign | 153 | 87% | 0.02 | 15 | \$48 | 16% | 1.8 |
| FE-Penelec | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Office | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 2.0 |
| FE-Penelec | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Office | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 2.0 |
| FE-Penelec | LED Task Lighting/Screw-In | 1 15W CFL bulb | Office | Other Int. Lighting | Early | lamp | 22 | 33% | 0.00 | 15 | \$9.6 | 24% | 0.6 |
| FE-Penelec | LED Task Lighting/Screw-In | 1 60W Incandescent Bulb | Office | Other Int. Lighting | Early | lamp | 88 | 83% | 0.02 | 15 | \$9.6 | 24% | 5.6 |
| FE-Penelec | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Office | Other Int. Lighting | New | lamp | 48 | 77% | 0.01 | 15 | \$7.9 | 24% | 3.4 |
| FE-Penelec | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Office | Other Int. Lighting | New | lamp | 48 | 77% | 0.01 | 15 | \$7.9 | 24% | 3.4 |
| FE-Penelec | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Office | Other Int. Lighting | ROB | lamp | 63 | 77% | 0.01 | 15 | \$7.9 | 24% | 4.4 |
| FE-Penelec | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Office | Other Int. Lighting | ROB | lamp | 63 | 77% | 0.01 | 15 | \$7.9 | 24% | 4.4 |
| FE-Penelec | Occupancy Sensor | Lighting w/ No Controls | Office | Other Int. Lighting | Existing | building | 4,354 | 24% | 0.2 | 8 | \$946 | 12% | 0.5 |
| FE-Penelec | Occupancy Sensor | Lighting w/ No Controls | Office | Other Int. Lighting | New | building | 4,354 | 7.0% | 0.07 | 8 | \$946 | 0% | 0.1 |
| FE-Penelec | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Office | Other Int. Lighting | Existing | building | 4,354 | 28% | 0.3 | 8 | \$3,091 | 12% | 0.2 |
| FE-Penelec | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Office | Other Int. Lighting | New | building | 4,354 | 4.1% | 0.04 | 8 | \$3,091 | 0% | 0.0 |
| FE-Penelec | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Office | Other Int. Lighting | Early | exit sign | 140 | 100% | 0.02 | 15 | \$173 | 26% | 0.5 |
| FE-Penelec | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Office | Other Int. Lighting | New | exit sign | 81 | 100% | 0.01 | 15 | \$148 | 31% | 0.4 |
| FE-Penelec | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Office | Other Int. Lighting | ROB | exit sign | 81 | 100% | 0.01 | 15 | \$148 | 26% | 0.4 |
| FE-Penelec | Time Clock Control | Lighting w/ No Controls | Office | Other Int. Lighting | Existing | building | 4,354 | 28% | 0.3 | 8 | \$628 | 13% | 0.9 |
| FE-Penelec | Time Clock Control | Lighting w/ No Controls | Office | Other Int. Lighting | New | building | 4,354 | 4.1% | 0.04 | 8 | \$628 | 0% | 0.1 |
| FE-Penelec | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Office | Plug Load | Existing | building | 5,037 | 46% | 0.5 | 5 | \$189 | 4% | 3.4 |
| FE-Penelec | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Office | Plug Load | New | building | 5,037 | 46% | 0.5 | 5 | \$189 | 4% | 3.4 |
| FE-Penelec | Data Center - Server/Storage Consolidation | No Consolidation | Office | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 36% | 0.0 |
| FE-Penelec | Data Center - Server/Storage Consolidation | No Consolidation | Office | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 36% | 0.0 |
| FE-Penelec | Data Center - Server/Storage Virtualization | No Virtualization | Office | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 36% | 0.0 |
| FE-Penelec | Data Center - Server/Storage Virtualization | No Virtualization | Office | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 36% | 0.0 |
| FE-Penelec | Energy Star - Scanners | Std Scanner | Office | Plug Load | New | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 88% | 0.1 |
| FE-Penelec | Energy Star - Scanners | Std Scanner | Office | Plug Load | ROB | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 88% | 0.1 |
| FE-Penelec | Energy Star Battery Charging System (for small cordless products) | Std. Battery Charging System | Office | Plug Load | ROB | measure | 593 | 2.3% | 1.3 | 5 | \$65 | 4% | 7.9 |
| FE-Penelec | Energy Star Dishwasher | Existing Dishwasher units | Office | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,550 | 1% | 1.0 |
| FE-Penelec | Energy Star Dishwasher | Standard Dishwasher unit | Office | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,003 | 1% | 3.5 |
| FE-Penelec | Energy Star Dishwasher | Standard Dishwasher unit | Office | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,003 | 1% | 3.5 |
| FE-Penelec | Energy Star External Power Adapter | Std. Power Adapter | Office | Plug Load | New | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| FE-Penelec | Energy Star External Power Adapter | Std. Power Adapter | Office | Plug Load | ROB | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| FE-Penelec | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Office | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 17% | 0.2 |
| FE-Penelec | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Office | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.0 |
| FE-Penelec | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Office | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.0 |
| FE-Penelec | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Office | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 9% | 0.8 |
| FE-Penelec | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Office | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.7 |
| FE-Penelec | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Office | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.7 |
| FE-Penelec | ENERGY STAR® Copiers | 10% Less Efficient Copier | Office | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 80% | 0.0 |
| FE-Penelec | ENERGY STAR® Copiers | One Conventional Copier | Office | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 80% | 0.0 |
| FE-Penelec | ENERGY STAR® Copiers | One Conventional Copier | Office | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 80% | 0.0 |
| FE-Penelec | ENERGY STAR® desktop | Standard computer | Office | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 87% | 0.1 |
| FE-Penelec | ENERGY STAR® desktop | Standard computer | Office | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 87% | 2.3 |
| FE-Penelec | ENERGY STAR® desktop | Standard computer | Office | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 87% | 2.3 |
| FE-Penelec | ENERGY STAR® Fax | 10% Less Efficient Fax | Office | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 89% | 0.0 |
| FE-Penelec | ENERGY STAR® Fax | One Conventional Fax | Office | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 89% | 0.2 |
| FE-Penelec | ENERGY STAR® Fax | One Conventional Fax | Office | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 89% | 0.2 |
| FE-Penelec | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Office | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 89% | 0.0 |
| FE-Penelec | ENERGY STAR® Monitors | One Conventional Monitor | Office | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 89% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|---|---------|---------------|----------|-------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | ENERGY STAR® Monitors | One Conventional Monitor | Office | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 89% | 0.0 |
| FE-Penelec | ENERGY STAR® Printers | 10% Less Efficient Printer | Office | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 89% | 0.0 |
| FE-Penelec | ENERGY STAR® Printers | One Conventional Printer | Office | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 89% | 0.3 |
| FE-Penelec | ENERGY STAR® Printers | One Conventional Printer | Office | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$130 | 89% | 0.3 |
| FE-Penelec | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Office | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 87% | 0.1 |
| FE-Penelec | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Office | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 87% | 0.7 |
| FE-Penelec | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Office | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 87% | 0.7 |
| FE-Penelec | ENERGY STAR® Televisions | 10% Less Efficient Television | Office | Plug Load | Early | Unit | 179 | 38% | 0.01 | 6 | \$672 | 85% | 0.0 |
| FE-Penelec | ENERGY STAR® Televisions | One Conventional Television | Office | Plug Load | New | Unit | 163 | 32% | 0.01 | 6 | \$206 | 85% | 0.1 |
| FE-Penelec | ENERGY STAR® Televisions | One Conventional Television | Office | Plug Load | ROB | Unit | 163 | 32% | 0.01 | 6 | \$206 | 85% | 0.1 |
| FE-Penelec | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Office | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 81% | 0.3 |
| FE-Penelec | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Office | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 81% | 0.6 |
| FE-Penelec | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Office | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 81% | 0.6 |
| FE-Penelec | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Office | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 51% | 0.3 |
| FE-Penelec | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Office | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 51% | 0.3 |
| FE-Penelec | Network PC Power Management | No PC Power Management | Office | Plug Load | Existing | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 17.9 |
| FE-Penelec | Network PC Power Management | No PC Power Management | Office | Plug Load | New | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 17.9 |
| FE-Penelec | Smart Strip Plug Outlets | Standard plug strip/outlet | Office | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.4 |
| FE-Penelec | Smart Strip Plug Outlets | Standard plug strip/outlet | Office | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.4 |
| FE-Penelec | Smart Strip Plug Outlets | Standard plug strip/outlet | Office | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Penelec | Smart Strip Plug Outlets | Standard plug strip/outlet | Office | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Penelec | Smart Strip Plug Outlets | Standard plug strip/outlet | Office | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Penelec | Smart Strip Plug Outlets | Standard plug strip/outlet | Office | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Penelec | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Office | Plug Load | Existing | building | 5,037 | 46% | 0.5 | 5 | \$180 | 3% | 3.6 |
| FE-Penelec | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Office | Plug Load | New | building | 5,037 | 46% | 0.5 | 5 | \$180 | 3% | 3.6 |
| FE-Penelec | Auto Closer on Refrigerator Door | Door w/out Autocloser | Office | Refrigeration | Existing | building | 1,236 | 55% | 0.5 | 8 | \$747 | 40% | 0.7 |
| FE-Penelec | Auto Closer on Refrigerator Door | Door w/out Autocloser | Office | Refrigeration | Existing | building | 3,559 | 19% | 0.2 | 8 | \$476 | 40% | 0.7 |
| FE-Penelec | Auto Closer on Refrigerator Door | Door w/out Autocloser | Office | Refrigeration | New | building | 1,236 | 55% | 0.5 | 8 | \$747 | 40% | 0.7 |
| FE-Penelec | Auto Closer on Refrigerator Door | Door w/out Autocloser | Office | Refrigeration | New | building | 3,559 | 19% | 0.2 | 8 | \$476 | 40% | 0.7 |
| FE-Penelec | Door Gasket- Freezer | Door w/out Gasket | Office | Refrigeration | Existing | building | 1,236 | 30% | 0.3 | 4 | \$77 | 29% | 2.1 |
| FE-Penelec | Door Gasket- Freezer | Door w/out Gasket | Office | Refrigeration | New | building | 1,236 | 31% | 0.3 | 4 | \$77 | 29% | 2.1 |
| FE-Penelec | Door Gasket- Refrigerator | Door w/out Gasket | Office | Refrigeration | Existing | building | 3,559 | 6.1% | 0.06 | 4 | \$66 | 45% | 0.8 |
| FE-Penelec | Door Gasket- Refrigerator | Door w/out Gasket | Office | Refrigeration | New | building | 3,559 | 6.1% | 0.06 | 4 | \$66 | 45% | 0.8 |
| FE-Penelec | eCube | Refrigeration unit w/out eCube | Office | Refrigeration | Existing | building | 3,559 | 15% | 0.2 | 15 | \$38 | 57% | 10.7 |
| FE-Penelec | eCube | Refrigeration unit w/out eCube | Office | Refrigeration | New | building | 3,559 | 15% | 0.2 | 15 | \$38 | 57% | 10.7 |
| FE-Penelec | Efficient compressor motor | Base Refrigeration System - Grocery | Office | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.6 |
| FE-Penelec | Efficient compressor motor | Base Refrigeration System - Grocery | Office | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.6 |
| FE-Penelec | Efficient compressor motor | Base Refrigeration System - Grocery | Office | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.6 |
| FE-Penelec | Efficient compressor motor | Base Refrigeration System - Grocery | Office | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.6 |
| FE-Penelec | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Office | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.5 |
| FE-Penelec | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Office | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| FE-Penelec | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Office | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| FE-Penelec | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Office | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.3 |
| FE-Penelec | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Office | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.7 |
| FE-Penelec | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Office | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.7 |
| FE-Penelec | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Office | Refrigeration | Existing | building | 3,559 | 3.5% | 0.04 | 10 | \$369 | 77% | 0.2 |
| FE-Penelec | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Office | Refrigeration | New | building | 3,559 | 3.5% | 0.04 | 10 | \$369 | 77% | 0.2 |
| FE-Penelec | Floating head pressure controller | System w/out FHPC | Office | Refrigeration | Existing | building | 1,236 | 18% | 0.05 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penelec | Floating head pressure controller | System w/out FHPC | Office | Refrigeration | Existing | building | 3,559 | 2.2% | 0.02 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penelec | Floating head pressure controller | System w/out FHPC | Office | Refrigeration | New | building | 1,236 | 18% | 0.05 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penelec | Floating head pressure controller | System w/out FHPC | Office | Refrigeration | New | building | 3,559 | 2.2% | 0.02 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penelec | High Efficiency Commercial Freezer | Std. Commercial Freezer | Office | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 86% | 0.3 |
| FE-Penelec | High Efficiency Commercial Freezer | Std. Commercial Freezer | Office | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 3.8 |
| FE-Penelec | High Efficiency Commercial Freezer | Std. Commercial Freezer | Office | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 3.8 |
| FE-Penelec | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Office | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 2% | 0.1 |
| FE-Penelec | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Office | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.8 |
| FE-Penelec | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Office | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.8 |
| FE-Penelec | High Efficiency Ice Maker | Existing Standard Efficiency Ice Maker in Pennsylvania | Office | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 73% | 0.1 |
| FE-Penelec | High Efficiency Ice Maker | Standard code minimum Ice Maker | Office | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| FE-Penelec | High Efficiency Ice Maker | Standard code minimum Ice Maker | Office | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| FE-Penelec | High Efficiency Ice Making Head | Standard Ice Making Head | Office | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.7 |
| FE-Penelec | High Efficiency Ice Making Head | Standard Ice Making Head | Office | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.7 |
| FE-Penelec | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Office | Refrigeration | Early | Fixture | 373 | 56% | 0.02 | 8 | \$448 | 47% | 0.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|--|---------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Office | Refrigeration | New | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 47% | 0.3 |
| FE-Penelec | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Office | Refrigeration | ROB | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 47% | 0.3 |
| FE-Penelec | Quick acting freezer doors | Std. Freezer Doors | Office | Refrigeration | Existing | building | 1,236 | 13% | 0.1 | 10 | \$392 | 56% | 0.4 |
| FE-Penelec | Quick acting freezer doors | Std. Freezer Doors | Office | Refrigeration | New | building | 1,236 | 13% | 0.1 | 10 | \$392 | 56% | 0.4 |
| FE-Penelec | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Office | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 30% | 0.4 |
| FE-Penelec | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Office | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.5 |
| FE-Penelec | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Office | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.5 |
| FE-Penelec | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 30% | 1.6 |
| FE-Penelec | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 2.8 |
| FE-Penelec | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 2.8 |
| FE-Penelec | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 30% | 1.6 |
| FE-Penelec | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 3.8 |
| FE-Penelec | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 3.8 |
| FE-Penelec | Refrigeration Commissioning | Non-commissioned refrigeration system | Office | Refrigeration | Existing | building | 4,943 | 9.5% | 0.10 | 3 | \$1,086 | 85% | 0.1 |
| FE-Penelec | Refrigeration Commissioning | Non-commissioned refrigeration system | Office | Refrigeration | New | building | 4,943 | 9.5% | 0.10 | 3 | \$1,086 | 85% | 0.1 |
| FE-Penelec | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Office | Refrigeration | Existing | building | 1,236 | 70% | 0.7 | 4 | \$93 | 22% | 4.0 |
| FE-Penelec | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Office | Refrigeration | Existing | building | 3,559 | 8.5% | 0.09 | 4 | \$80 | 22% | 1.0 |
| FE-Penelec | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Office | Refrigeration | New | building | 1,236 | 70% | 0.7 | 4 | \$93 | 22% | 4.0 |
| FE-Penelec | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Office | Refrigeration | New | building | 3,559 | 8.5% | 0.09 | 4 | \$80 | 22% | 1.0 |
| FE-Penelec | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Office | Refrigeration | Existing | building | 1,236 | 12% | 0.1 | 11 | \$117 | 79% | 1.2 |
| FE-Penelec | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Office | Refrigeration | New | building | 1,236 | 12% | 0.1 | 11 | \$117 | 79% | 1.2 |
| FE-Penelec | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Office | Refrigeration | Existing | building | 3,559 | 8.9% | 0.09 | 11 | \$117 | 79% | 1.6 |
| FE-Penelec | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Office | Refrigeration | New | building | 3,559 | 8.9% | 0.09 | 11 | \$117 | 79% | 1.6 |
| FE-Penelec | VSD Controlled Compressor | Compressor w/out VSD | Office | Refrigeration | Early | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |
| FE-Penelec | VSD Controlled Compressor | Compressor w/out VSD | Office | Refrigeration | New | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |
| FE-Penelec | VSD Controlled Compressor | Compressor w/out VSD | Office | Refrigeration | ROB | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |
| FE-Penelec | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Office | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$269 | 35% | 0.9 |
| FE-Penelec | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Office | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$269 | 35% | 0.8 |
| FE-Penelec | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Office | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.0 |
| FE-Penelec | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Office | Refrigeration | New | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 2.9 |
| FE-Penelec | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Office | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.0 |
| FE-Penelec | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Office | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 2.9 |
| FE-Penelec | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 35% | 2.3 |
| FE-Penelec | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 35% | 2.2 |
| FE-Penelec | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 4.9 |
| FE-Penelec | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.6 |
| FE-Penelec | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 4.9 |
| FE-Penelec | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.6 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Office | Space Heating | Existing | building | 12,912 | 7.1% | 0.07 | 6 | \$12,205 | 82% | 0.0 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Office | Space Heating | New | building | 12,912 | 7.1% | 0.07 | 6 | \$12,205 | 82% | 0.0 |
| FE-Penelec | Adding window shade film | No shade film | Office | Space Heating | Existing | building | 12,912 | 1.3% | 0.4 | 10 | \$157 | 13% | 2.0 |
| FE-Penelec | Adding window shade film | No shade film | Office | Space Heating | New | building | 12,912 | 1.3% | 0.4 | 10 | \$157 | 13% | 2.0 |
| FE-Penelec | Adding window shade screen | No shade screen | Office | Space Heating | Existing | building | 12,912 | 1.1% | 0.01 | 10 | \$61 | 13% | 0.9 |
| FE-Penelec | Adding window shade screen | No shade screen | Office | Space Heating | New | building | 12,912 | 1.1% | 0.01 | 10 | \$61 | 13% | 0.9 |
| FE-Penelec | Automated control system | Manual Controls | Office | Space Heating | Existing | building | 12,912 | 17% | 0.2 | 15 | \$14,136 | 51% | 0.1 |
| FE-Penelec | Automated control system | Manual Controls | Office | Space Heating | New | building | 12,912 | 17% | 0.2 | 15 | \$14,136 | 94% | 0.1 |
| FE-Penelec | Ceiling Insulations (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Office | Space Heating | Existing | building | 12,912 | 4.9% | 0.05 | 15 | \$16,437 | 71% | 0.0 |
| FE-Penelec | Ceiling Insulations (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Office | Space Heating | New | building | 12,912 | 2.3% | 0.02 | 15 | \$15,624 | 94% | 0.0 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Office | Space Heating | Existing | building | 12,912 | 1.4% | 0.04 | 15 | \$103 | 20% | 1.2 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Office | Space Heating | New | building | 12,912 | 1.4% | 0.04 | 15 | \$103 | 10% | 1.2 |
| FE-Penelec | Efficient Unit Heating System | Existing Unit Heaters in PA | Office | Space Heating | Early | heater | 10,601 | 23% | 0.02 | 15 | \$3,289 | 83% | 0.4 |
| FE-Penelec | Efficient Unit Heating System | Std. Unit Heater | Office | Space Heating | New | heater | 9,408 | 13% | 0.01 | 15 | \$1,991 | 83% | 0.3 |
| FE-Penelec | Efficient Unit Heating System | Std. Unit Heater | Office | Space Heating | ROB | heater | 9,408 | 13% | 0.01 | 15 | \$1,991 | 83% | 0.3 |
| FE-Penelec | Facility Commissioning | No Facility Commissioning | Office | Space Heating | New | building | 12,912 | 16% | 0.2 | 10 | \$46,906 | 89% | 0.0 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Office | Space Heating | Existing | building | 12,912 | 7.1% | 0.07 | 15 | \$57,276 | 25% | 0.0 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Office | Space Heating | New | building | 12,912 | 7.1% | 0.07 | 15 | \$57,276 | 35% | 0.0 |
| FE-Penelec | Hi Eff HVAC System Design | No HVAC Design | Office | Space Heating | New | building | 12,912 | 0.8% | 0.01 | 10 | \$1,063 | 51% | 0.0 |
| FE-Penelec | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Office | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$76 | 80% | 1.0 |
| FE-Penelec | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Office | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$76 | 80% | 1.0 |
| FE-Penelec | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Office | Space Heating | Existing | building | 12,912 | 2.8% | 0.03 | 10 | \$7,735 | 81% | 0.0 |
| FE-Penelec | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Office | Space Heating | New | building | 12,912 | 2.8% | 0.03 | 10 | \$7,735 | 81% | 0.0 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Office | Space Heating | Existing | building | 12,912 | 3.6% | 0.04 | 11 | \$286 | 49% | 0.7 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|--|---|--------------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Office | Space Heating | New | building | 12,912 | 3.1% | 0.03 | 11 | \$146 | 49% | 1.2 |
| FE-Penelec | Re-Commissioning (Existing Construction) | No Re-Commissioning | Office | Space Heating | Existing | building | 12,912 | 16% | 0.2 | 5 | \$7,777 | 86% | 0.1 |
| FE-Penelec | VFD on Cooling Tower Fan | Motor w/out VFD | Office | Space Heating | Early | motor | 15,151 | 70% | 3.4 | 15 | \$2,843 | 88% | 2.9 |
| FE-Penelec | VFD on Cooling Tower Fan | Motor w/out VFD | Office | Space Heating | New | motor | 14,867 | 72% | 3.3 | 15 | \$2,843 | 88% | 2.9 |
| FE-Penelec | VFD on Cooling Tower Fan | Motor w/out VFD | Office | Space Heating | ROB | motor | 14,867 | 72% | 3.3 | 15 | \$2,843 | 88% | 2.9 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Office | Space Heating | Existing | building | 12,912 | 15% | 0.2 | 15 | \$5,028 | 26% | 0.2 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Office | Space Heating | New | building | 12,912 | 0.5% | 0.01 | 15 | \$3,857 | 94% | 0.0 |
| FE-Penelec | Green LED Traffic Light | Green Incandescent Traffic Light | Office | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 0% | 1.2 |
| FE-Penelec | Green LED Traffic Light | Green Incandescent Traffic Light | Office | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| FE-Penelec | Green LED Traffic Light | Green Incandescent Traffic Light | Office | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| FE-Penelec | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Office | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 0% | 3.0 |
| FE-Penelec | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Office | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-Penelec | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Office | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-Penelec | Induction Street Lighting | One 100W HPS Street Light Fixture | Office | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 0% | 0.3 |
| FE-Penelec | Induction Street Lighting | One 100W HPS Street Light Fixture | Office | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.7 |
| FE-Penelec | Induction Street Lighting | One 100W HPS Street Light Fixture | Office | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.7 |
| FE-Penelec | LED Street Lighting | One 100W HPS Street Light | Office | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 0% | 0.2 |
| FE-Penelec | LED Street Lighting | One 100W HPS Street Light | Office | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-Penelec | LED Street Lighting | One 100W HPS Street Light | Office | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-Penelec | Red LED Traffic Light | One Red Incandescent Traffic Light | Office | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 0% | 1.6 |
| FE-Penelec | Red LED Traffic Light | One Red Incandescent Traffic Light | Office | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| FE-Penelec | Red LED Traffic Light | One Red Incandescent Traffic Light | Office | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| FE-Penelec | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Office | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 0% | 0.1 |
| FE-Penelec | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Office | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-Penelec | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Office | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-Penelec | Demand controlled Circulating Systems | Constant circulation system | Office | Water Heating | Existing | building | 859 | 20% | 0.2 | 15 | \$156 | 59% | 1.8 |
| FE-Penelec | Demand controlled Circulating Systems | Demand controlled Circulating Systems | Office | Water Heating | New | building | 859 | 20% | 0.2 | 15 | \$156 | 59% | 1.8 |
| FE-Penelec | Drainwater Heat Recovery Water Heater | No heat recovery | Office | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.9 |
| FE-Penelec | Drainwater Heat Recovery Water Heater | No heat recovery | Office | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.9 |
| FE-Penelec | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Office | Water Heating | Existing | building | 859 | 5.9% | 0.06 | 12 | \$70 | 85% | 1.0 |
| FE-Penelec | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Office | Water Heating | New | building | 859 | 5.9% | 0.06 | 12 | \$20 | 85% | 3.5 |
| FE-Penelec | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Office | Water Heating | Early | water heater | 9,692 | 66% | 1.1 | 10 | \$1,187 | 68% | 2.7 |
| FE-Penelec | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Office | Water Heating | Early | water heater | 9,692 | 66% | 1.1 | 10 | \$1,187 | 68% | 2.7 |
| FE-Penelec | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Office | Water Heating | New | water heater | 9,692 | 66% | 1.1 | 10 | \$1,187 | 68% | 2.7 |
| FE-Penelec | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Office | Water Heating | New | water heater | 9,692 | 66% | 1.1 | 10 | \$1,187 | 68% | 2.7 |
| FE-Penelec | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Office | Water Heating | ROB | water heater | 9,423 | 65% | 1.1 | 10 | \$1,187 | 68% | 2.5 |
| FE-Penelec | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Office | Water Heating | ROB | water heater | 9,423 | 65% | 1.1 | 10 | \$1,187 | 68% | 2.5 |
| FE-Penelec | Heat Recovery Unit | Base Water Heating | Office | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.6 |
| FE-Penelec | Heat Recovery Unit | Base Water Heating | Office | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.6 |
| FE-Penelec | Heat Trap | No Heat Trap | Office | Water Heating | Existing | building | 859 | 22% | 0.2 | 11 | \$5.8 | 50% | 41.7 |
| FE-Penelec | Heat Trap | No Heat Trap | Office | Water Heating | New | building | 859 | 22% | 0.2 | 11 | \$0.9 | 50% | 279.9 |
| FE-Penelec | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Office | Water Heating | Early | water heater | 9,692 | 5.9% | 0.1 | 15 | \$307 | 79% | 1.3 |
| FE-Penelec | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Office | Water Heating | Early | water heater | 9,692 | 5.9% | 0.1 | 15 | \$307 | 79% | 1.3 |
| FE-Penelec | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Office | Water Heating | New | water heater | 9,423 | 3.2% | 0.05 | 15 | \$307 | 79% | 0.7 |
| FE-Penelec | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Office | Water Heating | New | water heater | 9,423 | 3.2% | 0.05 | 15 | \$307 | 79% | 0.7 |
| FE-Penelec | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Office | Water Heating | ROB | water heater | 9,423 | 3.2% | 0.05 | 15 | \$307 | 79% | 0.7 |
| FE-Penelec | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Office | Water Heating | ROB | water heater | 9,423 | 3.2% | 0.05 | 15 | \$307 | 79% | 0.7 |
| FE-Penelec | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Office | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$466 | 81% | 39.2 |
| FE-Penelec | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Office | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 20.4 |
| FE-Penelec | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Office | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 20.4 |
| FE-Penelec | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Office | Water Heating | Existing | building | 859 | 3.9% | 0.04 | 13 | \$5.1 | 68% | 9.5 |
| FE-Penelec | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Office | Water Heating | New | building | 859 | 3.9% | 0.04 | 13 | \$5.1 | 0% | 9.5 |
| FE-Penelec | Hot Water Circulation Pump Time-Clock | Constant circulation system | Office | Water Heating | Existing | building | 859 | 5.3% | 0.05 | 10 | \$3.5 | 72% | 15.6 |
| FE-Penelec | Hot Water Circulation Pump Time-Clock | Constant circulation system | Office | Water Heating | New | building | 859 | 5.3% | 0.05 | 10 | \$3.5 | 72% | 15.6 |
| FE-Penelec | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Office | Water Heating | Existing | building | 859 | 1.1% | 0.01 | 7 | \$22 | 78% | 0.4 |
| FE-Penelec | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Office | Water Heating | New | building | 859 | 0.9% | 0.01 | 7 | \$0.5 | 78% | 14.0 |
| FE-Penelec | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Office | Water Heating | Existing | building | 859 | 13% | 0.1 | 5 | \$300 | 0% | 0.2 |
| FE-Penelec | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Office | Water Heating | New | building | 859 | 13% | 0.1 | 5 | \$194 | 0% | 0.4 |
| FE-Penelec | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Office | Water Heating | Existing | building | 859 | 6.5% | 0.07 | 9 | \$25 | 2% | 2.5 |
| FE-Penelec | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Office | Water Heating | New | building | 859 | 6.5% | 0.07 | 9 | \$6.0 | 2% | 10.2 |
| FE-Penelec | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Office | Water Heating | Early | water heater | 9,692 | 52% | 0.4 | 15 | \$6,222 | 32% | 0.5 |
| FE-Penelec | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Office | Water Heating | New | water heater | 9,423 | 51% | 0.4 | 15 | \$6,222 | 32% | 0.5 |
| FE-Penelec | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Office | Water Heating | ROB | water heater | 9,423 | 51% | 0.4 | 15 | \$6,222 | 32% | 0.5 |
| FE-Penelec | Ultrasonic Faucet Control | Manual Faucet Control | Office | Water Heating | Existing | building | 859 | 3.0% | 0.03 | 10 | \$148 | 77% | 0.2 |
| FE-Penelec | Ultrasonic Faucet Control | Manual Faucet Control | Office | Water Heating | New | building | 859 | 3.1% | 0.03 | 10 | \$148 | 77% | 0.2 |
| FE-Penelec | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Office | Water Heating | Existing | building | 859 | 2.2% | 0.02 | 4 | \$28 | 83% | 0.4 |
| FE-Penelec | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Office | Water Heating | New | building | 859 | 2.3% | 0.02 | 4 | \$28 | 83% | 0.4 |
| FE-Penelec | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Other Inst'l | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|--|--|--------------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Other Inst'l | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.1 |
| FE-Penelec | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Other Inst'l | Cooking | Early | steamer | 51 | 46% | 0.00 | 12 | \$5,053 | 81% | 0.0 |
| FE-Penelec | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Other Inst'l | Cooking | New | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-Penelec | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Other Inst'l | Cooking | ROB | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-Penelec | Electric combination oven (Energy Star) | Standard Oven | Other Inst'l | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.9 |
| FE-Penelec | Electric combination oven (Energy Star) | Standard Oven | Other Inst'l | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.9 |
| FE-Penelec | Electric Convection Oven | Conventional convection oven w/ 65% efficiency | Other Inst'l | Cooking | Early | oven | 8,641 | 37% | 0.6 | 12 | \$4,119 | 81% | 0.4 |
| FE-Penelec | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Other Inst'l | Cooking | New | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.7 |
| FE-Penelec | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Other Inst'l | Cooking | ROB | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.7 |
| FE-Penelec | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Other Inst'l | Cooking | Early | fryer | 6,105 | 23% | 0.3 | 12 | \$9,241 | 86% | 0.1 |
| FE-Penelec | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Other Inst'l | Cooking | New | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| FE-Penelec | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Other Inst'l | Cooking | ROB | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| FE-Penelec | High Efficiency Griddle (ENERGY STAR) | Efficiency code minimum griddle (70% eff) | Other Inst'l | Cooking | Early | griddle | 11,317 | 65% | 1.4 | 12 | \$4,977 | 86% | 0.8 |
| FE-Penelec | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Other Inst'l | Cooking | New | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.2 |
| FE-Penelec | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Other Inst'l | Cooking | ROB | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.2 |
| FE-Penelec | High Efficiency Induction Cooking | Standard Cooking | Other Inst'l | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-Penelec | High Efficiency Induction Cooking | Standard Cooking | Other Inst'l | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Other Inst'l | Cooling Central | Existing | building | 1,732 | 7.0% | 0.07 | 6 | \$12,713 | 82% | 0.0 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Other Inst'l | Cooling Central | New | building | 1,732 | 7.0% | 0.07 | 6 | \$12,713 | 82% | 0.0 |
| FE-Penelec | Adding window shade film | No shade film | Other Inst'l | Cooling Central | Existing | building | 1,732 | 1.3% | 0.4 | 10 | \$21 | 12% | 12.8 |
| FE-Penelec | Adding window shade film | No shade film | Other Inst'l | Cooling Central | New | building | 1,732 | 1.3% | 0.4 | 10 | \$21 | 13% | 12.8 |
| FE-Penelec | Adding window shade screen | No shade screen | Other Inst'l | Cooling Central | Existing | building | 1,732 | 1.1% | 0.01 | 10 | \$8.2 | 13% | 1.7 |
| FE-Penelec | Adding window shade screen | No shade screen | Other Inst'l | Cooling Central | New | building | 1,732 | 1.1% | 0.01 | 10 | \$8.2 | 13% | 1.7 |
| FE-Penelec | Automated control system | Manual Controls | Other Inst'l | Cooling Central | Existing | building | 1,732 | 17% | 0.2 | 15 | \$1,896 | 51% | 0.2 |
| FE-Penelec | Automated control system | Manual Controls | Other Inst'l | Cooling Central | New | building | 1,732 | 17% | 0.2 | 15 | \$1,896 | 94% | 0.2 |
| FE-Penelec | Ceiling Insulations (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Other Inst'l | Cooling Central | Existing | building | 1,732 | 7.2% | 0.07 | 15 | \$17,130 | 71% | 0.0 |
| FE-Penelec | Ceiling Insulations (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Other Inst'l | Cooling Central | New | building | 1,732 | 2.4% | 0.02 | 15 | \$16,283 | 94% | 0.0 |
| FE-Penelec | Chiller Tuneup/Diagnostics | No tuneup | Other Inst'l | Cooling Central | Existing | building | 1,732 | 8.0% | 0.08 | 10 | \$4,423 | 59% | 0.0 |
| FE-Penelec | Chiller Tuneup/Diagnostics | No tuneup | Other Inst'l | Cooling Central | New | building | 1,732 | 8.0% | 0.08 | 10 | \$4,423 | 59% | 0.0 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Other Inst'l | Cooling Central | Existing | building | 1,732 | 1.4% | 0.04 | 15 | \$14 | 20% | 3.6 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Other Inst'l | Cooling Central | New | building | 1,732 | 1.4% | 0.04 | 15 | \$14 | 10% | 3.6 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Other Inst'l | Cooling Central | Existing | building | 1,732 | 7.0% | 0.07 | 15 | \$7,683 | 25% | 0.0 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Other Inst'l | Cooling Central | New | building | 1,732 | 7.0% | 0.07 | 15 | \$7,683 | 35% | 0.0 |
| FE-Penelec | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | Early | ton | 3,841 | 24% | 0.3 | 15 | \$108,550 | 88% | 0.0 |
| FE-Penelec | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | New | ton | 3,140 | 6.7% | 0.07 | 15 | \$12,927 | 88% | 0.0 |
| FE-Penelec | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | ROB | ton | 3,140 | 6.7% | 0.07 | 15 | \$12,927 | 88% | 0.0 |
| FE-Penelec | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | Early | ton | 5,740 | 23% | 0.5 | 15 | \$140,105 | 88% | 0.0 |
| FE-Penelec | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | New | ton | 4,618 | 4.9% | 0.08 | 15 | \$9,336 | 88% | 0.0 |
| FE-Penelec | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | ROB | ton | 4,618 | 4.9% | 0.08 | 15 | \$9,336 | 88% | 0.0 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | Early | ton | 46,985 | 26% | 4.2 | 15 | \$105,354 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | New | ton | 40,938 | 15% | 2.1 | 15 | \$30,530 | 88% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | ROB | ton | 40,938 | 15% | 2.1 | 15 | \$30,530 | 88% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | Early | ton | 70,371 | 23% | 5.6 | 15 | \$154,107 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | New | ton | 64,645 | 16% | 3.6 | 15 | \$27,646 | 88% | 0.3 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | ROB | ton | 70,371 | 23% | 5.6 | 15 | \$27,646 | 88% | 0.5 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | Early | ton | 116,873 | 23% | 9.2 | 15 | \$302,924 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | New | ton | 105,779 | 14% | 5.3 | 15 | \$115,432 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | ROB | ton | 116,873 | 23% | 9.2 | 15 | \$115,432 | 88% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | Early | ton | 140,248 | 23% | 11.0 | 15 | \$350,154 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | New | ton | 126,935 | 14% | 6.4 | 15 | \$120,406 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | ROB | ton | 140,248 | 23% | 11.0 | 15 | \$120,406 | 88% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | Early | ton | 31,087 | 29% | 3.2 | 15 | \$83,632 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | New | ton | 24,139 | 8.9% | 0.7 | 15 | \$40,211 | 88% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|--|---|--------------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | ROB | ton | 31,087 | 29% | 3.2 | 15 | \$40,211 | 88% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | Early | ton | 53,416 | 35% | 6.5 | 15 | \$132,173 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | New | ton | 39,839 | 13% | 1.7 | 15 | \$39,556 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | ROB | ton | 39,839 | 13% | 1.7 | 15 | \$39,556 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | Early | ton | 89,181 | 39% | 12.1 | 15 | \$187,029 | 88% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | New | ton | 63,585 | 15% | 3.2 | 15 | \$33,554 | 88% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | ROB | ton | 89,181 | 39% | 12.1 | 15 | \$33,554 | 88% | 0.9 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | Early | ton | 15,605 | 30% | 1.6 | 15 | \$32,398 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | New | ton | 12,364 | 11% | 0.5 | 15 | \$7,188 | 88% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | ROB | ton | 15,605 | 30% | 1.6 | 15 | \$7,188 | 88% | 0.6 |
| FE-Penelec | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Other Inst'l | Cooling Central | Existing | building | 1,732 | 1.0% | 0.01 | 10 | \$41,718 | 81% | 0.0 |
| FE-Penelec | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Other Inst'l | Cooling Central | New | building | 1,732 | 1.1% | 0.01 | 10 | \$41,718 | 81% | 0.0 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Other Inst'l | Cooling Central | Existing | building | 1,732 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.1 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Other Inst'l | Cooling Central | New | building | 1,732 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.2 |
| FE-Penelec | Re-Commissioning (Existing Construction) | No Re-Commissioning | Other Inst'l | Cooling Central | Existing | building | 1,732 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Other Inst'l | Cooling Central | Existing | building | 1,732 | 13% | 0.1 | 15 | \$3,285 | 26% | 0.1 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Other Inst'l | Cooling Central | New | building | 1,732 | 0.3% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| FE-Penelec | <65k BTU/hr 14 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Other Inst'l | Cooling Unitary | Early | ton | 3,025 | 16% | 0.2 | 15 | \$1,545 | 29% | 0.3 |
| FE-Penelec | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Other Inst'l | Cooling Unitary | New | ton | 2,740 | 7.1% | 0.08 | 15 | \$339 | 29% | 0.5 |
| FE-Penelec | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Other Inst'l | Cooling Unitary | ROB | ton | 2,740 | 7.1% | 0.08 | 15 | \$339 | 29% | 0.5 |
| FE-Penelec | <65k BTU/hr 15 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Other Inst'l | Cooling Unitary | Early | ton | 3,025 | 22% | 0.3 | 15 | \$1,821 | 30% | 0.3 |
| FE-Penelec | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Other Inst'l | Cooling Unitary | New | ton | 2,740 | 13% | 0.1 | 15 | \$714 | 30% | 0.5 |
| FE-Penelec | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Other Inst'l | Cooling Unitary | ROB | ton | 2,740 | 13% | 0.1 | 15 | \$714 | 30% | 0.5 |
| FE-Penelec | <65k BTU/hr 16 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Other Inst'l | Cooling Unitary | Early | ton | 3,025 | 26% | 0.3 | 15 | \$2,098 | 31% | 0.3 |
| FE-Penelec | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Other Inst'l | Cooling Unitary | New | ton | 2,740 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.4 |
| FE-Penelec | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Other Inst'l | Cooling Unitary | ROB | ton | 2,740 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.4 |
| FE-Penelec | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Other Inst'l | Cooling Unitary | Early | ton | 76,544 | 3.7% | 1.1 | 15 | \$68,066 | 56% | 0.0 |
| FE-Penelec | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Other Inst'l | Cooling Unitary | New | ton | 77,526 | 4.9% | 1.5 | 15 | \$6,231 | 56% | 0.5 |
| FE-Penelec | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Other Inst'l | Cooling Unitary | ROB | ton | 77,526 | 4.9% | 1.5 | 15 | \$6,231 | 56% | 0.5 |
| FE-Penelec | 135-240k min 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Other Inst'l | Cooling Unitary | Early | ton | 18,834 | 18% | 1.3 | 15 | \$18,135 | 79% | 0.2 |
| FE-Penelec | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Other Inst'l | Cooling Unitary | New | ton | 17,133 | 10.0% | 0.7 | 15 | \$1,948 | 79% | 0.8 |
| FE-Penelec | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Other Inst'l | Cooling Unitary | ROB | ton | 17,133 | 10.0% | 0.7 | 15 | \$1,948 | 79% | 0.8 |
| FE-Penelec | 240k-760k min 11 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Other Inst'l | Cooling Unitary | Early | ton | 50,358 | 9.0% | 1.8 | 15 | \$44,809 | 66% | 0.1 |
| FE-Penelec | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Other Inst'l | Cooling Unitary | New | ton | 50,484 | 9.3% | 1.8 | 15 | \$4,813 | 66% | 0.9 |
| FE-Penelec | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Other Inst'l | Cooling Unitary | ROB | ton | 50,484 | 9.3% | 1.8 | 15 | \$4,813 | 66% | 0.9 |
| FE-Penelec | 65k-135k BTU/hr 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Other Inst'l | Cooling Unitary | Early | ton | 11,102 | 17% | 0.7 | 15 | \$10,946 | 86% | 0.2 |
| FE-Penelec | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Other Inst'l | Cooling Unitary | New | ton | 9,895 | 6.7% | 0.3 | 15 | \$1,392 | 86% | 0.4 |
| FE-Penelec | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Other Inst'l | Cooling Unitary | ROB | ton | 9,895 | 6.7% | 0.3 | 15 | \$1,392 | 86% | 0.4 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Other Inst'l | Cooling Unitary | Existing | building | 20,662 | 7.1% | 0.07 | 6 | \$12,713 | 82% | 0.0 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Other Inst'l | Cooling Unitary | New | building | 20,662 | 7.0% | 0.07 | 6 | \$12,713 | 82% | 0.0 |
| FE-Penelec | Adding window shade film | No shade film | Other Inst'l | Cooling Unitary | Existing | building | 20,662 | 1.3% | 0.4 | 10 | \$251 | 12% | 1.4 |
| FE-Penelec | Adding window shade film | No shade film | Other Inst'l | Cooling Unitary | New | building | 20,662 | 1.3% | 0.4 | 10 | \$251 | 13% | 1.4 |
| FE-Penelec | Adding window shade screen | No shade screen | Other Inst'l | Cooling Unitary | Existing | building | 20,662 | 1.1% | 0.01 | 10 | \$97 | 12% | 0.9 |
| FE-Penelec | Adding window shade screen | No shade screen | Other Inst'l | Cooling Unitary | New | building | 20,662 | 1.1% | 0.01 | 10 | \$97 | 13% | 0.9 |
| FE-Penelec | Automated control system | Manual Controls | Other Inst'l | Cooling Unitary | Existing | building | 20,662 | 17% | 0.2 | 15 | \$22,621 | 51% | 0.1 |
| FE-Penelec | Automated control system | Manual Controls | Other Inst'l | Cooling Unitary | New | building | 20,662 | 17% | 0.2 | 15 | \$22,621 | 94% | 0.1 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Other Inst'l | Cooling Unitary | Existing | building | 20,662 | 7.2% | 0.07 | 15 | \$17,130 | 71% | 0.1 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Other Inst'l | Cooling Unitary | New | building | 20,662 | 2.4% | 0.02 | 15 | \$16,283 | 94% | 0.0 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Other Inst'l | Cooling Unitary | Existing | building | 20,662 | 1.4% | 0.04 | 15 | \$164 | 20% | 1.2 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Other Inst'l | Cooling Unitary | New | building | 20,662 | 1.4% | 0.04 | 15 | \$164 | 10% | 1.2 |
| FE-Penelec | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Other Inst'l | Cooling Unitary | Existing | building | 11,364 | 13% | 0.1 | 1 | \$109 | 73% | 0.8 |
| FE-Penelec | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Other Inst'l | Cooling Unitary | New | building | 11,364 | 13% | 0.1 | 1 | \$109 | 73% | 0.8 |
| FE-Penelec | ECM Motors for split systems | Std Shaded Pole Motor | Other Inst'l | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.9 |
| FE-Penelec | ECM Motors for split systems | Std Shaded Pole Motor | Other Inst'l | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.9 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|--|---|--------------|-----------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Other Inst'l | Cooling Unitary | Existing | building | 20,662 | 7.1% | 0.07 | 15 | \$91,654 | 25% | 0.0 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Other Inst'l | Cooling Unitary | New | building | 20,662 | 7.1% | 0.07 | 15 | \$91,654 | 35% | 0.0 |
| FE-Penelec | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Other Inst'l | Cooling Unitary | Existing | building | 20,662 | 5.0% | 0.05 | 5 | \$225 | 59% | 1.1 |
| FE-Penelec | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Other Inst'l | Cooling Unitary | Existing | building | 20,662 | 1.3% | 0.09 | 5 | \$225 | 51% | 0.4 |
| FE-Penelec | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Other Inst'l | Cooling Unitary | New | building | 20,662 | 1.1% | 0.08 | 5 | \$135 | 51% | 0.6 |
| FE-Penelec | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Other Inst'l | Cooling Unitary | Existing | building | 20,662 | 1.1% | 0.01 | 10 | \$44,835 | 86% | 0.0 |
| FE-Penelec | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Other Inst'l | Cooling Unitary | New | building | 20,662 | 1.1% | 0.01 | 10 | \$44,835 | 86% | 0.0 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) | Other Inst'l | Cooling Unitary | Existing | building | 20,662 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.6 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Other Inst'l | Cooling Unitary | New | building | 20,662 | 1.7% | 0.02 | 11 | \$146 | 49% | 1.1 |
| FE-Penelec | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Other Inst'l | Cooling Unitary | Early | unit | 1,440 | 19% | 0.7 | 15 | \$849 | 85% | 0.9 |
| FE-Penelec | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Other Inst'l | Cooling Unitary | New | unit | 1,455 | 20% | 0.7 | 15 | \$356 | 85% | 2.3 |
| FE-Penelec | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Other Inst'l | Cooling Unitary | ROB | unit | 1,455 | 20% | 0.7 | 15 | \$356 | 85% | 2.3 |
| FE-Penelec | Re-Commissioning (Existing Construction) | No Re-Commissioning | Other Inst'l | Cooling Unitary | Existing | building | 20,662 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.1 |
| FE-Penelec | Room AC (w/ louvered sides) | Existing efficiency Room AC in Pennsylvania (2000 Federal Standards) | Other Inst'l | Cooling Unitary | Early | ton | 1,097 | 13% | 0.05 | 9 | \$348 | 82% | 0.2 |
| FE-Penelec | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Other Inst'l | Cooling Unitary | New | ton | 994 | 4.5% | 0.02 | 9 | \$17 | 82% | 1.5 |
| FE-Penelec | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Other Inst'l | Cooling Unitary | ROB | ton | 994 | 4.5% | 0.02 | 9 | \$17 | 82% | 1.5 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Other Inst'l | Cooling Unitary | Existing | building | 20,662 | 13% | 0.1 | 15 | \$3,285 | 26% | 0.5 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Other Inst'l | Cooling Unitary | New | building | 20,662 | 0.3% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| FE-Penelec | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Other Inst'l | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 1.1 |
| FE-Penelec | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Other Inst'l | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.4 |
| FE-Penelec | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Other Inst'l | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.4 |
| FE-Penelec | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Other Inst'l | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 0% | 0.2 |
| FE-Penelec | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Other Inst'l | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-Penelec | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Other Inst'l | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-Penelec | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Other Inst'l | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 75% | 0.3 |
| FE-Penelec | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Other Inst'l | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 75% | 0.2 |
| FE-Penelec | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Other Inst'l | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.8 |
| FE-Penelec | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Other Inst'l | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.1 |
| FE-Penelec | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Other Inst'l | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.8 |
| FE-Penelec | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Other Inst'l | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.1 |
| FE-Penelec | Photocell Controls (Outdoor) | Lighting w/ No Controls | Other Inst'l | Ext. Lighting | Existing | building | 337 | 28% | 0.3 | 8 | \$5,088 | 88% | 0.0 |
| FE-Penelec | Photocell Controls (Outdoor) | Lighting w/ No Controls | Other Inst'l | Ext. Lighting | New | building | 337 | 28% | 0.3 | 8 | \$5,088 | 0% | 0.0 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Other Inst'l | Heat Pump | Existing | building | 1,908 | 6.9% | 0.07 | 6 | \$12,713 | 82% | 0.0 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Other Inst'l | Heat Pump | New | building | 1,908 | 6.9% | 0.07 | 6 | \$12,713 | 82% | 0.0 |
| FE-Penelec | Adding window shade film | No shade film | Other Inst'l | Heat Pump | Existing | building | 1,908 | 3.9% | 0.4 | 10 | \$23 | 12% | 12.3 |
| FE-Penelec | Adding window shade film | No shade film | Other Inst'l | Heat Pump | New | building | 1,908 | 3.9% | 0.4 | 10 | \$23 | 12% | 12.3 |
| FE-Penelec | Adding window shade screen | No shade screen | Other Inst'l | Heat Pump | Existing | building | 1,908 | 0.3% | 0.01 | 10 | \$3.0 | 12% | 3.1 |
| FE-Penelec | Adding window shade screen | No shade screen | Other Inst'l | Heat Pump | New | building | 1,908 | 0.3% | 0.01 | 10 | \$3.0 | 12% | 3.1 |
| FE-Penelec | Automated control system | Manual Controls | Other Inst'l | Heat Pump | Existing | building | 1,908 | 17% | 0.2 | 15 | \$2,089 | 51% | 0.2 |
| FE-Penelec | Automated control system | Manual Controls | Other Inst'l | Heat Pump | New | building | 1,908 | 17% | 0.2 | 15 | \$2,089 | 94% | 0.2 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Other Inst'l | Heat Pump | Existing | building | 1,908 | 7.2% | 0.07 | 15 | \$17,130 | 71% | 0.0 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Other Inst'l | Heat Pump | New | building | 1,908 | 2.4% | 0.02 | 15 | \$16,283 | 94% | 0.0 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Other Inst'l | Heat Pump | Existing | building | 1,908 | 4.0% | 0.04 | 15 | \$15 | 12% | 5.0 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Other Inst'l | Heat Pump | New | building | 1,908 | 4.0% | 0.04 | 15 | \$15 | 6% | 5.0 |
| FE-Penelec | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Other Inst'l | Heat Pump | Early | heat pump | 2,289 | 12% | 0.02 | 15 | \$4,070 | 83% | 0.0 |
| FE-Penelec | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Other Inst'l | Heat Pump | New | heat pump | 2,182 | 7.8% | 0.01 | 15 | \$1,097 | 83% | 0.1 |
| FE-Penelec | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Other Inst'l | Heat Pump | ROB | heat pump | 2,182 | 7.8% | 0.01 | 15 | \$1,097 | 83% | 0.1 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Other Inst'l | Heat Pump | Existing | building | 1,908 | 7.0% | 0.07 | 15 | \$8,464 | 25% | 0.0 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Other Inst'l | Heat Pump | New | building | 1,908 | 7.0% | 0.07 | 15 | \$8,464 | 35% | 0.0 |
| FE-Penelec | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Other Inst'l | Heat Pump | Early | heat pump | 23,080 | 16% | 0.3 | 15 | \$91,117 | 19% | 0.0 |
| FE-Penelec | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Other Inst'l | Heat Pump | New | heat pump | 22,288 | 13% | 0.2 | 15 | \$33,927 | 19% | 0.0 |
| FE-Penelec | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Other Inst'l | Heat Pump | ROB | heat pump | 22,288 | 13% | 0.2 | 15 | \$33,927 | 19% | 0.0 |
| FE-Penelec | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Other Inst'l | Heat Pump | Early | heat pump | 23,080 | 16% | 0.3 | 15 | \$58,356 | 19% | 0.0 |
| FE-Penelec | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Other Inst'l | Heat Pump | New | heat pump | 22,288 | 13% | 0.2 | 15 | \$1,167 | 19% | 1.4 |
| FE-Penelec | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Other Inst'l | Heat Pump | ROB | heat pump | 22,288 | 13% | 0.2 | 15 | \$1,167 | 19% | 1.4 |
| FE-Penelec | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Other Inst'l | Heat Pump | Early | heat pump | 5,997 | 16% | 0.08 | 12 | \$4,298 | 81% | 0.1 |
| FE-Penelec | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Other Inst'l | Heat Pump | New | heat pump | 5,732 | 12% | 0.06 | 12 | \$852 | 81% | 0.4 |
| FE-Penelec | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Other Inst'l | Heat Pump | ROB | heat pump | 5,732 | 12% | 0.06 | 12 | \$852 | 81% | 0.4 |
| FE-Penelec | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Other Inst'l | Heat Pump | Existing | building | 1,908 | 5.0% | 0.01 | 5 | \$90 | 51% | 0.2 |
| FE-Penelec | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Other Inst'l | Heat Pump | New | building | 1,908 | 5.0% | 0.01 | 5 | \$90 | 51% | 0.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|--|--|--------------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Other Inst'l | Heat Pump | Existing | building | 1,908 | 1.0% | 0.01 | 10 | \$39,918 | 81% | 0.0 |
| FE-Penelec | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Other Inst'l | Heat Pump | New | building | 1,908 | 1.0% | 0.01 | 10 | \$39,918 | 81% | 0.0 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Other Inst'l | Heat Pump | Existing | building | 1,908 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.1 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Other Inst'l | Heat Pump | New | building | 1,908 | 2.1% | 0.02 | 11 | \$146 | 49% | 0.2 |
| FE-Penelec | Re-Commissioning (Existing Construction) | No Re-Commissioning | Other Inst'l | Heat Pump | Existing | building | 1,908 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Other Inst'l | Heat Pump | Existing | building | 1,908 | 13% | 0.1 | 15 | \$3,285 | 26% | 0.1 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Other Inst'l | Heat Pump | New | building | 1,908 | 0.3% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| FE-Penelec | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Other Inst'l | Heat Pump | Early | heat pump | 9,669 | 35% | 0.3 | 15 | \$35,347 | 28% | 0.1 |
| FE-Penelec | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Other Inst'l | Heat Pump | New | heat pump | 9,219 | 32% | 0.3 | 15 | \$15,739 | 28% | 0.1 |
| FE-Penelec | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Other Inst'l | Heat Pump | ROB | heat pump | 9,219 | 32% | 0.3 | 15 | \$15,739 | 28% | 0.1 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 299 | 9.6% | 0.01 | 13 | \$850 | 39% | 0.0 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Other Inst'l | High Bay Lighting | Early | Fixture | 299 | 9.5% | 0.01 | 13 | \$850 | 28% | 0.0 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 461 | 41% | 0.04 | 13 | \$850 | 36% | 0.1 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 227 | 9.6% | 0.00 | 13 | \$372 | 39% | 0.0 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 211 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 350 | 41% | 0.03 | 13 | \$397 | 36% | 0.2 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 299 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.0 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 278 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 461 | 41% | 0.04 | 13 | \$397 | 36% | 0.3 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 580 | 19% | 0.02 | 13 | \$851 | 38% | 0.1 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Other Inst'l | High Bay Lighting | Early | Fixture | 587 | 20% | 0.02 | 13 | \$851 | 38% | 0.1 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 1,708 | 73% | 0.2 | 13 | \$851 | 38% | 0.9 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 441 | 19% | 0.02 | 13 | \$372 | 38% | 0.1 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 1,298 | 73% | 0.2 | 13 | \$383 | 38% | 1.5 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 580 | 19% | 0.02 | 13 | \$372 | 38% | 0.2 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 1,708 | 73% | 0.2 | 13 | \$383 | 38% | 2.0 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 580 | 25% | 0.03 | 13 | \$554 | 29% | 0.2 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Other Inst'l | High Bay Lighting | Early | Fixture | 569 | 23% | 0.03 | 13 | \$554 | 28% | 0.1 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 1,708 | 74% | 0.2 | 13 | \$554 | 36% | 1.4 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 441 | 25% | 0.02 | 13 | \$75 | 29% | 0.9 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 1,298 | 74% | 0.2 | 13 | \$86 | 36% | 7.1 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 580 | 25% | 0.03 | 13 | \$75 | 29% | 1.2 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 1,708 | 74% | 0.2 | 13 | \$86 | 36% | 9.3 |
| FE-Penelec | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Other Inst'l | High Bay Lighting | Early | Fixture | 151 | 0.2% | 0.00 | 13 | \$835 | 38% | 0.0 |
| FE-Penelec | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 326 | 54% | 0.03 | 13 | \$835 | 38% | 0.1 |
| FE-Penelec | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 248 | 54% | 0.03 | 13 | \$382 | 38% | 0.2 |
| FE-Penelec | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 326 | 54% | 0.03 | 13 | \$382 | 38% | 0.3 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 739 | 18% | 0.03 | 13 | \$487 | 25% | 0.2 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Other Inst'l | High Bay Lighting | Early | Fixture | 773 | 22% | 0.03 | 13 | \$487 | 28% | 0.2 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 1,708 | 65% | 0.2 | 13 | \$487 | 36% | 1.4 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 562 | 18% | 0.02 | 13 | \$16 | 25% | 4.0 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 1,298 | 65% | 0.2 | 13 | \$18 | 36% | 28.6 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 739 | 18% | 0.03 | 13 | \$16 | 25% | 5.2 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 1,708 | 65% | 0.2 | 13 | \$18 | 36% | 37.6 |
| FE-Penelec | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 739 | 1.5% | 0.00 | 13 | \$557 | 19% | 0.0 |
| FE-Penelec | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Other Inst'l | High Bay Lighting | Early | Fixture | 761 | 4.3% | 0.01 | 13 | \$557 | 19% | 0.0 |
| FE-Penelec | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 1,708 | 57% | 0.2 | 13 | \$557 | 19% | 1.1 |
| FE-Penelec | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 562 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| FE-Penelec | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 1,298 | 57% | 0.1 | 13 | \$88 | 19% | 5.3 |
| FE-Penelec | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 739 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| FE-Penelec | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 1,708 | 57% | 0.2 | 13 | \$88 | 19% | 7.0 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 314 | 29% | 0.01 | 13 | \$492 | 71% | 0.1 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 262 | 15% | 0.01 | 13 | \$492 | 95% | 0.0 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 390 | 43% | 0.02 | 13 | \$492 | 95% | 0.2 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 361 | 38% | 0.02 | 13 | \$492 | 95% | 0.2 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 199 | 15% | 0.00 | 13 | \$25 | 95% | 0.7 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 296 | 43% | 0.02 | 13 | \$51 | 95% | 1.4 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 262 | 15% | 0.01 | 13 | \$25 | 95% | 0.9 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 390 | 43% | 0.02 | 13 | \$51 | 95% | 1.9 |
| FE-Penelec | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Other Inst'l | High Bay Lighting | Early | lamp | 86 | 16% | 0.00 | 12 | \$7.7 | 99% | 1.1 |
| FE-Penelec | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Other Inst'l | High Bay Lighting | New | lamp | 51 | 13% | 0.00 | 12 | \$1.6 | 91% | 2.4 |
| FE-Penelec | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Other Inst'l | High Bay Lighting | ROB | lamp | 82 | 13% | 0.00 | 12 | \$1.6 | 91% | 3.9 |
| FE-Penelec | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 1,748 | 23% | 0.08 | 13 | \$613 | 5% | 0.4 |
| FE-Penelec | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Other Inst'l | High Bay Lighting | Early | Fixture | 1,373 | 1.6% | 0.00 | 13 | \$613 | 28% | 0.0 |
| FE-Penelec | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 3,417 | 60% | 0.4 | 13 | \$613 | 18% | 2.1 |
| FE-Penelec | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 1,329 | 23% | 0.06 | 13 | \$96 | 5% | 2.0 |
| FE-Penelec | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 1,748 | 23% | 0.08 | 13 | \$96 | 5% | 2.6 |
| FE-Penelec | Auto Off Time Switch | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | Existing | building | 686 | 24% | 0.2 | 8 | \$1,034 | 13% | 0.2 |
| FE-Penelec | Auto Off Time Switch | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | New | building | 686 | 6.9% | 0.07 | 8 | \$1,034 | 0% | 0.1 |
| FE-Penelec | Central Lighting Control System | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | Existing | building | 686 | 38% | 0.4 | 8 | \$1,034 | 13% | 0.3 |
| FE-Penelec | Central Lighting Control System | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | New | building | 686 | 14% | 0.1 | 8 | \$1,034 | 13% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|--|--------------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Other Inst'l | High Bay Lighting | New | building | 686 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.0 |
| FE-Penelec | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Other Inst'l | High Bay Lighting | New | building | 686 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |
| FE-Penelec | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Other Inst'l | High Bay Lighting | New | building | 686 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| FE-Penelec | Indoor Daylight Sensors | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | Existing | building | 686 | 28% | 0.3 | 8 | \$5,088 | 13% | 0.0 |
| FE-Penelec | Indoor Daylight Sensors | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | New | building | 686 | 4.0% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| FE-Penelec | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 1,748 | 92% | 0.3 | 13 | \$1,916 | 95% | 0.5 |
| FE-Penelec | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 3,417 | 96% | 0.6 | 13 | \$1,916 | 95% | 1.1 |
| FE-Penelec | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 1,329 | 92% | 0.2 | 13 | \$1,468 | 95% | 0.5 |
| FE-Penelec | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 2,597 | 96% | 0.5 | 13 | \$1,149 | 95% | 1.4 |
| FE-Penelec | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 1,748 | 92% | 0.3 | 13 | \$1,468 | 95% | 0.7 |
| FE-Penelec | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 3,417 | 96% | 0.6 | 13 | \$1,149 | 95% | 1.8 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 580 | 67% | 0.07 | 13 | \$960 | 95% | 0.3 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 1,708 | 89% | 0.3 | 13 | \$960 | 95% | 1.0 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 469 | 59% | 0.05 | 13 | \$960 | 95% | 0.2 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 441 | 67% | 0.06 | 13 | \$480 | 95% | 0.4 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 1,298 | 89% | 0.2 | 13 | \$491 | 95% | 1.5 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 356 | 59% | 0.04 | 13 | \$406 | 95% | 0.3 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 580 | 67% | 0.07 | 13 | \$480 | 95% | 0.5 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 1,708 | 89% | 0.3 | 13 | \$491 | 95% | 1.9 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 469 | 59% | 0.05 | 13 | \$406 | 95% | 0.4 |
| FE-Penelec | Occupancy Sensor | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | Existing | building | 686 | 24% | 0.2 | 8 | \$1,558 | 11% | 0.1 |
| FE-Penelec | Occupancy Sensor | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | New | building | 686 | 6.9% | 0.07 | 8 | \$1,558 | 0% | 0.0 |
| FE-Penelec | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | Existing | building | 686 | 28% | 0.3 | 8 | \$5,088 | 11% | 0.0 |
| FE-Penelec | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | New | building | 686 | 4.0% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| FE-Penelec | Time Clock Control | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | Existing | building | 686 | 28% | 0.3 | 8 | \$1,034 | 13% | 0.2 |
| FE-Penelec | Time Clock Control | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | New | building | 686 | 4.0% | 0.04 | 8 | \$1,034 | 0% | 0.0 |
| FE-Penelec | Auto Off Time Switch | Lighting w/ No Controls | Other Inst'l | Lin. Fluor. Lighting | Existing | building | 17,091 | 24% | 0.2 | 8 | \$1,034 | 13% | 1.4 |
| FE-Penelec | Auto Off Time Switch | Lighting w/ No Controls | Other Inst'l | Lin. Fluor. Lighting | New | building | 17,091 | 7.0% | 0.07 | 8 | \$1,034 | 0% | 0.4 |
| FE-Penelec | Central Lighting Control System | Lighting w/ No Controls | Other Inst'l | Lin. Fluor. Lighting | Existing | building | 17,091 | 38% | 0.4 | 8 | \$1,034 | 12% | 2.2 |
| FE-Penelec | Central Lighting Control System | Lighting w/ No Controls | Other Inst'l | Lin. Fluor. Lighting | New | building | 17,091 | 14% | 0.1 | 8 | \$1,034 | 12% | 0.8 |
| FE-Penelec | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Other Inst'l | Lin. Fluor. Lighting | New | building | 17,091 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.0 |
| FE-Penelec | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Other Inst'l | Lin. Fluor. Lighting | New | building | 17,091 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |
| FE-Penelec | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Other Inst'l | Lin. Fluor. Lighting | New | building | 17,091 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| FE-Penelec | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Other Inst'l | Lin. Fluor. Lighting | Early | Lamp | 172 | 38% | 0.01 | 12 | \$7.3 | 94% | 5.3 |
| FE-Penelec | Indoor Daylight Sensors | Lighting w/ No Controls | Other Inst'l | Lin. Fluor. Lighting | Existing | building | 17,091 | 28% | 0.3 | 8 | \$5,088 | 13% | 0.3 |
| FE-Penelec | Indoor Daylight Sensors | Lighting w/ No Controls | Other Inst'l | Lin. Fluor. Lighting | New | building | 17,091 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | Early | Lamp | 38 | 19% | 0.00 | 15 | \$35 | 94% | 0.1 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 40W T12 Lamp, Magnetic Ballast | Other Inst'l | Lin. Fluor. Lighting | Early | Lamp | 83 | 63% | 0.01 | 15 | \$35 | 94% | 1.0 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | Early | Lamp | 46 | 34% | 0.00 | 15 | \$35 | 94% | 0.3 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | Early | Lamp | 45 | 32% | 0.00 | 15 | \$35 | 94% | 0.3 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | New | Lamp | 29 | 19% | 0.00 | 15 | \$28 | 94% | 0.1 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | New | Lamp | 34 | 32% | 0.00 | 15 | \$29 | 94% | 0.3 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | New | Lamp | 35 | 34% | 0.00 | 15 | \$22 | 94% | 0.4 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | New | Lamp | 34 | 32% | 0.00 | 15 | \$29 | 94% | 0.3 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | ROB | Lamp | 38 | 19% | 0.00 | 15 | \$28 | 94% | 0.2 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | ROB | Lamp | 45 | 32% | 0.00 | 15 | \$29 | 94% | 0.4 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | ROB | Lamp | 46 | 34% | 0.00 | 15 | \$22 | 94% | 0.5 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | ROB | Lamp | 45 | 32% | 0.00 | 15 | \$29 | 94% | 0.4 |
| FE-Penelec | Occupancy Sensor | Lighting w/ No Controls | Other Inst'l | Lin. Fluor. Lighting | Existing | building | 17,091 | 24% | 0.2 | 8 | \$1,558 | 12% | 0.9 |
| FE-Penelec | Occupancy Sensor | Lighting w/ No Controls | Other Inst'l | Lin. Fluor. Lighting | New | building | 17,091 | 7.0% | 0.07 | 8 | \$1,558 | 0% | 0.3 |
| FE-Penelec | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Other Inst'l | Lin. Fluor. Lighting | Existing | building | 17,091 | 28% | 0.3 | 8 | \$5,088 | 11% | 0.3 |
| FE-Penelec | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Other Inst'l | Lin. Fluor. Lighting | New | building | 17,091 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 40W T12 w/ Magnetic Ballast | Other Inst'l | Lin. Fluor. Lighting | Early | Lamp | 172 | 54% | 0.02 | 12 | \$9.1 | 94% | 6.0 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | Early | Lamp | 110 | 28% | 0.01 | 12 | \$9.1 | 24% | 2.0 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | Early | Lamp | 107 | 26% | 0.01 | 12 | \$9.1 | 94% | 1.8 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | New | Lamp | 81 | 26% | 0.00 | 12 | \$2.5 | 94% | 4.9 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | New | Lamp | 81 | 26% | 0.00 | 12 | \$2.5 | 94% | 4.9 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | New | Lamp | 84 | 28% | 0.00 | 12 | \$2.5 | 24% | 5.5 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | New | Lamp | 81 | 26% | 0.00 | 12 | \$2.5 | 94% | 4.9 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | ROB | Lamp | 107 | 26% | 0.01 | 12 | \$2.5 | 94% | 6.4 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | ROB | Lamp | 107 | 26% | 0.01 | 12 | \$2.5 | 94% | 6.4 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|--|--------------|---------|---------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | 50 HP Motor, Ultra-PE | 50 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | ROB | motor | 151,716 | 0.5% | 0.1 | 15 | \$273 | 79% | 1.8 |
| FE-Penelec | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | Early | motor | 183,453 | 1.8% | 0.4 | 15 | \$4,430 | 70% | 0.5 |
| FE-Penelec | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | Early | motor | 183,453 | 1.8% | 0.4 | 15 | \$4,430 | 70% | 0.5 |
| FE-Penelec | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | Early | motor | 183,453 | 1.8% | 0.4 | 15 | \$4,430 | 70% | 0.5 |
| FE-Penelec | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | Early | motor | 183,453 | 1.8% | 0.5 | 15 | \$4,430 | 70% | 0.5 |
| FE-Penelec | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | Early | motor | 183,453 | 1.8% | 0.4 | 15 | \$4,430 | 70% | 0.5 |
| FE-Penelec | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | New | motor | 181,101 | 0.5% | 0.1 | 15 | \$431 | 70% | 1.4 |
| FE-Penelec | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | New | motor | 181,101 | 0.5% | 0.1 | 15 | \$431 | 70% | 1.4 |
| FE-Penelec | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | New | motor | 181,101 | 0.5% | 0.1 | 15 | \$431 | 70% | 1.5 |
| FE-Penelec | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | New | motor | 181,101 | 0.5% | 0.1 | 15 | \$431 | 70% | 1.4 |
| FE-Penelec | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | ROB | motor | 181,101 | 0.5% | 0.1 | 15 | \$431 | 70% | 1.4 |
| FE-Penelec | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | ROB | motor | 181,101 | 0.5% | 0.1 | 15 | \$431 | 70% | 1.4 |
| FE-Penelec | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | ROB | motor | 181,101 | 0.5% | 0.1 | 15 | \$431 | 70% | 1.4 |
| FE-Penelec | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | ROB | motor | 181,101 | 0.5% | 0.1 | 15 | \$431 | 70% | 1.5 |
| FE-Penelec | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | ROB | motor | 181,101 | 0.5% | 0.1 | 15 | \$431 | 70% | 1.4 |
| FE-Penelec | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | Early | motor | 24,211 | 2.9% | 0.09 | 15 | \$802 | 83% | 0.6 |
| FE-Penelec | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | Early | motor | 24,211 | 2.9% | 0.09 | 15 | \$802 | 83% | 0.6 |
| FE-Penelec | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | Early | motor | 24,211 | 2.9% | 0.1 | 15 | \$802 | 83% | 0.6 |
| FE-Penelec | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | Early | motor | 24,211 | 2.9% | 0.09 | 15 | \$802 | 83% | 0.6 |
| FE-Penelec | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | New | motor | 23,633 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.7 |
| FE-Penelec | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | New | motor | 23,633 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.7 |
| FE-Penelec | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | New | motor | 23,633 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.7 |
| FE-Penelec | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | New | motor | 23,633 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.7 |
| FE-Penelec | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | ROB | motor | 23,633 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.7 |
| FE-Penelec | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | ROB | motor | 23,633 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.7 |
| FE-Penelec | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | ROB | motor | 23,633 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.7 |
| FE-Penelec | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | ROB | motor | 23,633 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.7 |
| FE-Penelec | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | ROB | motor | 23,633 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.7 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | Early | motor | 228,258 | 1.3% | 0.4 | 15 | \$3,955 | 61% | 0.5 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | Early | motor | 228,258 | 1.3% | 0.4 | 15 | \$3,955 | 61% | 0.5 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | Early | motor | 228,258 | 1.3% | 0.4 | 15 | \$3,955 | 61% | 0.5 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | Early | motor | 228,258 | 1.3% | 0.4 | 15 | \$3,955 | 61% | 0.5 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | New | motor | 226,377 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.3 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | New | motor | 226,377 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.3 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | New | motor | 226,377 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.4 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | New | motor | 226,377 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.3 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | ROB | motor | 226,377 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.3 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | ROB | motor | 226,377 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.3 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | ROB | motor | 226,377 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.4 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | ROB | motor | 226,377 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.3 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Other Inst'l | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 21.7 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Other Inst'l | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 22.2 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Other Inst'l | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 22.5 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Other Inst'l | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 23.1 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Other Inst'l | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 23.6 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Other Inst'l | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 21.5 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Other Inst'l | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 22.0 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Other Inst'l | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 22.8 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Other Inst'l | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 22.9 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Other Inst'l | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 23.5 |
| FE-Penelec | Escalator Motor Controller | Constant power control | Other Inst'l | Motors | New | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 22% | 5.9 |
| FE-Penelec | Escalator Motor Controller | Constant power control | Other Inst'l | Motors | ROB | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 22% | 5.9 |
| FE-Penelec | Variable Speed Drive Control, 15HP | Existing Motors w/out VSD Drive | Other Inst'l | Motors | Early | motor | 47,265 | 70% | 4.9 | 15 | \$731 | 86% | 30.2 |
| FE-Penelec | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Other Inst'l | Motors | New | motor | 46,249 | 72% | 4.9 | 15 | \$731 | 86% | 30.3 |
| FE-Penelec | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Other Inst'l | Motors | ROB | motor | 46,249 | 72% | 4.9 | 15 | \$731 | 86% | 30.3 |
| FE-Penelec | Variable Speed Drive Control, 40HP | Existing Motors w/out VSD Drive | Other Inst'l | Motors | Early | motor | 123,331 | 71% | 12.8 | 15 | \$4,666 | 86% | 12.5 |
| FE-Penelec | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Other Inst'l | Motors | New | motor | 121,889 | 72% | 12.8 | 15 | \$4,666 | 86% | 12.5 |
| FE-Penelec | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Other Inst'l | Motors | ROB | motor | 121,889 | 72% | 12.8 | 15 | \$4,666 | 86% | 12.5 |
| FE-Penelec | Variable Speed Drive Control, 5HP | Existing Motors w/out VFD Drive | Other Inst'l | Motors | Early | motor | 16,385 | 70% | 1.7 | 15 | \$2,243 | 86% | 3.4 |
| FE-Penelec | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Other Inst'l | Motors | New | motor | 16,019 | 72% | 1.7 | 15 | \$2,243 | 86% | 3.4 |
| FE-Penelec | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Other Inst'l | Motors | ROB | motor | 16,019 | 72% | 1.7 | 15 | \$2,243 | 86% | 3.4 |
| FE-Penelec | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Other Inst'l | Motors | Early | motor | 5,707 | 20% | 0.1 | 15 | \$268 | 13% | 2.6 |
| FE-Penelec | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Other Inst'l | Motors | New | motor | 5,707 | 20% | 0.1 | 15 | \$268 | 13% | 2.6 |
| FE-Penelec | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Other Inst'l | Motors | ROB | motor | 5,707 | 20% | 0.1 | 15 | \$268 | 13% | 2.6 |
| FE-Penelec | VFD on Chilled Water Pump | Motor w/out VFD Drive | Other Inst'l | Motors | Early | motor | 15,151 | 54% | 2.7 | 15 | \$2,903 | 86% | 2.3 |
| FE-Penelec | VFD on Chilled Water Pump | Motor w/out VFD Drive | Other Inst'l | Motors | New | motor | 14,867 | 55% | 2.7 | 15 | \$2,843 | 86% | 2.3 |
| FE-Penelec | VFD on Chilled Water Pump | Motor w/out VFD Drive | Other Inst'l | Motors | ROB | motor | 14,867 | 55% | 2.7 | 15 | \$2,843 | 86% | 2.3 |
| FE-Penelec | VFD on Condenser Water Pump | Motor w/out VFD Drive | Other Inst'l | Motors | Early | motor | 15,040 | 32% | 3.2 | 15 | \$2,903 | 86% | 1.9 |
| FE-Penelec | VFD on Condenser Water Pump | Motor w/out VFD Drive | Other Inst'l | Motors | New | motor | 14,759 | 33% | 3.1 | 15 | \$2,843 | 86% | 1.9 |
| FE-Penelec | VFD on Condenser Water Pump | Motor w/out VFD Drive | Other Inst'l | Motors | ROB | motor | 14,759 | 33% | 3.1 | 15 | \$2,843 | 86% | 1.9 |
| FE-Penelec | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Other Inst'l | Motors | Early | motor | 31,171 | 56% | 0.00 | 15 | \$2,903 | 86% | 3.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|--|--------------|---------------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Other Inst'l | Motors | New | motor | 30,588 | 57% | 0.00 | 15 | \$2,843 | 86% | 3.1 |
| FE-Penelec | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Other Inst'l | Motors | ROB | motor | 30,588 | 57% | 0.00 | 15 | \$2,843 | 86% | 3.1 |
| FE-Penelec | VFD on HVAC Fan | Motor w/out VFD | Other Inst'l | Motors | Early | motor | 15,151 | 70% | 3.4 | 15 | \$2,903 | 86% | 3.0 |
| FE-Penelec | VFD on HVAC Fan | Motor w/out VFD | Other Inst'l | Motors | New | motor | 14,867 | 72% | 3.3 | 15 | \$2,843 | 86% | 3.1 |
| FE-Penelec | VFD on HVAC Fan | Motor w/out VFD | Other Inst'l | Motors | ROB | motor | 14,867 | 72% | 3.3 | 15 | \$2,843 | 86% | 3.1 |
| FE-Penelec | Variable Speed Drives on Process Equipment | Constant speed control | Other Inst'l | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 10.6 |
| FE-Penelec | Variable Speed Drives on Process Equipment | Constant speed control | Other Inst'l | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 10.6 |
| FE-Penelec | Auto Off Time Switch | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | Existing | building | 6,568 | 24% | 0.2 | 8 | \$1,034 | 13% | 0.6 |
| FE-Penelec | Auto Off Time Switch | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | New | building | 6,568 | 7.0% | 0.07 | 8 | \$1,034 | 0% | 0.2 |
| FE-Penelec | Central Lighting Control System | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | Existing | building | 6,568 | 38% | 0.4 | 8 | \$1,034 | 13% | 1.0 |
| FE-Penelec | Central Lighting Control System | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | New | building | 6,568 | 14% | 0.1 | 8 | \$1,034 | 13% | 0.4 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 40W Incandescent Bulb | Other Inst'l | Other Int. Lighting | Early | lamp | 87 | 87% | 0.01 | 15 | \$30 | 14% | 1.8 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | Early | lamp | 62 | 81% | 0.01 | 15 | \$30 | 11% | 1.2 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | New | lamp | 47 | 81% | 0.01 | 15 | \$21 | 14% | 1.3 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | New | lamp | 47 | 81% | 0.01 | 15 | \$23 | 14% | 1.2 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | New | lamp | 47 | 81% | 0.01 | 15 | \$22 | 11% | 1.2 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | ROB | lamp | 62 | 81% | 0.01 | 15 | \$21 | 14% | 1.7 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | ROB | lamp | 62 | 81% | 0.01 | 15 | \$23 | 14% | 1.6 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | ROB | lamp | 62 | 81% | 0.01 | 15 | \$22 | 11% | 1.6 |
| FE-Penelec | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Other Inst'l | Other Int. Lighting | Early | lamp | 87 | 75% | 0.01 | 7 | \$73 | 39% | 0.3 |
| FE-Penelec | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Other Inst'l | Other Int. Lighting | New | fixture | 95 | 65% | 0.01 | 13 | \$29 | 46% | 1.3 |
| FE-Penelec | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | New | lamp | 47 | 65% | 0.01 | 7 | \$29 | 46% | 0.4 |
| FE-Penelec | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Other Inst'l | Other Int. Lighting | ROB | fixture | 125 | 65% | 0.01 | 13 | \$29 | 39% | 1.7 |
| FE-Penelec | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | ROB | lamp | 62 | 65% | 0.01 | 7 | \$29 | 39% | 0.5 |
| FE-Penelec | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Other Inst'l | Other Int. Lighting | Early | lamp | 87 | 75% | 0.01 | 7 | \$3.2 | 24% | 7.6 |
| FE-Penelec | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | New | lamp | 47 | 65% | 0.01 | 7 | \$1.8 | 24% | 6.5 |
| FE-Penelec | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | ROB | lamp | 62 | 65% | 0.01 | 7 | \$1.8 | 24% | 8.5 |
| FE-Penelec | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | ROB | lamp | 62 | 65% | 0.01 | 7 | \$1.8 | 24% | 8.5 |
| FE-Penelec | Exit Sign Retrofit: CFL replacing Incandescent | One 23W Single Sided Incandescent Exit Sign | Other Inst'l | Other Int. Lighting | Early | exit sign | 139 | 42% | 0.01 | 15 | \$48 | 22% | 0.8 |
| FE-Penelec | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Other Inst'l | Other Int. Lighting | New | building | 6,568 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.0 |
| FE-Penelec | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Other Inst'l | Other Int. Lighting | New | building | 6,568 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |
| FE-Penelec | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Other Inst'l | Other Int. Lighting | New | building | 6,568 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| FE-Penelec | Indoor Daylight Sensors | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | Existing | building | 6,568 | 28% | 0.3 | 8 | \$5,088 | 13% | 0.1 |
| FE-Penelec | Indoor Daylight Sensors | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | New | building | 6,568 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| FE-Penelec | LED Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Other Inst'l | Other Int. Lighting | Early | sign | 153 | 87% | 0.02 | 15 | \$48 | 16% | 1.8 |
| FE-Penelec | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Other Inst'l | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 2.0 |
| FE-Penelec | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Other Inst'l | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 2.0 |
| FE-Penelec | LED Task Lighting/Screw-In | 1 15W CFL bulb | Other Inst'l | Other Int. Lighting | Early | lamp | 22 | 33% | 0.00 | 15 | \$9.6 | 24% | 0.5 |
| FE-Penelec | LED Task Lighting/Screw-In | 1 60W Incandescent Bulb | Other Inst'l | Other Int. Lighting | Early | lamp | 89 | 83% | 0.01 | 15 | \$9.6 | 24% | 5.4 |
| FE-Penelec | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Other Inst'l | Other Int. Lighting | New | lamp | 49 | 77% | 0.01 | 15 | \$7.9 | 24% | 3.3 |
| FE-Penelec | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Other Inst'l | Other Int. Lighting | New | lamp | 49 | 77% | 0.01 | 15 | \$7.9 | 24% | 3.3 |
| FE-Penelec | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Other Inst'l | Other Int. Lighting | ROB | lamp | 64 | 77% | 0.01 | 15 | \$7.9 | 24% | 4.3 |
| FE-Penelec | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Other Inst'l | Other Int. Lighting | ROB | lamp | 64 | 77% | 0.01 | 15 | \$7.9 | 24% | 4.3 |
| FE-Penelec | Occupancy Sensor | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | Existing | building | 6,568 | 24% | 0.2 | 8 | \$1,558 | 11% | 0.4 |
| FE-Penelec | Occupancy Sensor | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | New | building | 6,568 | 7.0% | 0.07 | 8 | \$1,558 | 0% | 0.1 |
| FE-Penelec | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | Existing | building | 6,568 | 28% | 0.3 | 8 | \$5,088 | 11% | 0.1 |
| FE-Penelec | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | New | building | 6,568 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| FE-Penelec | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Other Inst'l | Other Int. Lighting | Early | exit sign | 139 | 100% | 0.02 | 15 | \$173 | 26% | 0.5 |
| FE-Penelec | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Other Inst'l | Other Int. Lighting | New | exit sign | 80 | 100% | 0.01 | 15 | \$148 | 31% | 0.4 |
| FE-Penelec | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Other Inst'l | Other Int. Lighting | ROB | exit sign | 80 | 100% | 0.01 | 15 | \$148 | 26% | 0.4 |
| FE-Penelec | Time Clock Control | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | Existing | building | 6,568 | 28% | 0.3 | 8 | \$1,034 | 13% | 0.7 |
| FE-Penelec | Time Clock Control | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | New | building | 6,568 | 4.1% | 0.04 | 8 | \$1,034 | 0% | 0.1 |
| FE-Penelec | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Other Inst'l | Plug Load | Existing | building | 674 | 46% | 0.5 | 5 | \$189 | 4% | 1.3 |
| FE-Penelec | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Other Inst'l | Plug Load | New | building | 674 | 46% | 0.5 | 5 | \$189 | 4% | 1.3 |
| FE-Penelec | Data Center - Server/Storage Consolidation | No Consolidation | Other Inst'l | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penelec | Data Center - Server/Storage Consolidation | No Consolidation | Other Inst'l | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penelec | Data Center - Server/Storage Virtualization | No Virtualization | Other Inst'l | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penelec | Data Center - Server/Storage Virtualization | No Virtualization | Other Inst'l | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penelec | Energy Star - Scanners | Std Scanner | Other Inst'l | Plug Load | New | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| FE-Penelec | Energy Star - Scanners | Std Scanner | Other Inst'l | Plug Load | ROB | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| FE-Penelec | Energy Star Dishwasher | Existing Dishwasher units | Other Inst'l | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,550 | 1% | 1.0 |
| FE-Penelec | Energy Star Dishwasher | Standard Dishwasher unit | Other Inst'l | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,003 | 1% | 3.5 |
| FE-Penelec | Energy Star Dishwasher | Standard Dishwasher unit | Other Inst'l | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,003 | 1% | 3.5 |
| FE-Penelec | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Other Inst'l | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 17% | 0.2 |
| FE-Penelec | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Other Inst'l | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.0 |
| FE-Penelec | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Other Inst'l | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.0 |
| FE-Penelec | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Other Inst'l | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 9% | 0.8 |
| FE-Penelec | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Other Inst'l | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.7 |
| FE-Penelec | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Other Inst'l | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.7 |
| FE-Penelec | ENERGY STAR® Copiers | 10% Less Efficient Copier | Other Inst'l | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 18% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|---|--------------|---------------|----------|-------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | ENERGY STAR® Copiers | One Conventional Copier | Other Inst'l | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| FE-Penelec | ENERGY STAR® Copiers | One Conventional Copier | Other Inst'l | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| FE-Penelec | ENERGY STAR® desktop | Standard computer | Other Inst'l | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 69% | 0.1 |
| FE-Penelec | ENERGY STAR® desktop | Standard computer | Other Inst'l | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.3 |
| FE-Penelec | ENERGY STAR® desktop | Standard computer | Other Inst'l | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.3 |
| FE-Penelec | ENERGY STAR® Fax | 10% Less Efficient Fax | Other Inst'l | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 15% | 0.0 |
| FE-Penelec | ENERGY STAR® Fax | One Conventional Fax | Other Inst'l | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| FE-Penelec | ENERGY STAR® Fax | One Conventional Fax | Other Inst'l | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| FE-Penelec | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Other Inst'l | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 70% | 0.0 |
| FE-Penelec | ENERGY STAR® Monitors | One Conventional Monitor | Other Inst'l | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| FE-Penelec | ENERGY STAR® Monitors | One Conventional Monitor | Other Inst'l | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| FE-Penelec | ENERGY STAR® Printers | 10% Less Efficient Printer | Other Inst'l | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 44% | 0.0 |
| FE-Penelec | ENERGY STAR® Printers | One Conventional Printer | Other Inst'l | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| FE-Penelec | ENERGY STAR® Printers | One Conventional Printer | Other Inst'l | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| FE-Penelec | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Other Inst'l | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 43% | 0.1 |
| FE-Penelec | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Other Inst'l | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.7 |
| FE-Penelec | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Other Inst'l | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.7 |
| FE-Penelec | ENERGY STAR® Televisions | 10% Less Efficient Television | Other Inst'l | Plug Load | Early | Unit | 111 | 38% | 0.01 | 6 | \$672 | 40% | 0.0 |
| FE-Penelec | ENERGY STAR® Televisions | One Conventional Television | Other Inst'l | Plug Load | New | Unit | 101 | 32% | 0.01 | 6 | \$206 | 40% | 0.0 |
| FE-Penelec | ENERGY STAR® Televisions | One Conventional Television | Other Inst'l | Plug Load | ROB | Unit | 101 | 32% | 0.01 | 6 | \$206 | 40% | 0.0 |
| FE-Penelec | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Other Inst'l | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 24% | 0.3 |
| FE-Penelec | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Other Inst'l | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.6 |
| FE-Penelec | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Other Inst'l | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.6 |
| FE-Penelec | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Other Inst'l | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.3 |
| FE-Penelec | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Other Inst'l | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.3 |
| FE-Penelec | Network PC Power Management | No PC Power Management | Other Inst'l | Plug Load | Existing | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 10.0 |
| FE-Penelec | Network PC Power Management | No PC Power Management | Other Inst'l | Plug Load | New | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 10.0 |
| FE-Penelec | Smart Strip Plug Outlets | Standard plug strip/outlet | Other Inst'l | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.4 |
| FE-Penelec | Smart Strip Plug Outlets | Standard plug strip/outlet | Other Inst'l | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.4 |
| FE-Penelec | Smart Strip Plug Outlets | Standard plug strip/outlet | Other Inst'l | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Penelec | Smart Strip Plug Outlets | Standard plug strip/outlet | Other Inst'l | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Penelec | Smart Strip Plug Outlets | Standard plug strip/outlet | Other Inst'l | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Penelec | Smart Strip Plug Outlets | Standard plug strip/outlet | Other Inst'l | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Penelec | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Other Inst'l | Plug Load | Existing | building | 674 | 46% | 0.5 | 5 | \$180 | 3% | 1.4 |
| FE-Penelec | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Other Inst'l | Plug Load | New | building | 674 | 46% | 0.5 | 5 | \$180 | 3% | 1.4 |
| FE-Penelec | Auto Closer on Refrigerator Door | Door w/out Autocloser | Other Inst'l | Refrigeration | Existing | building | 2,526 | 53% | 0.5 | 8 | \$747 | 40% | 1.0 |
| FE-Penelec | Auto Closer on Refrigerator Door | Door w/out Autocloser | Other Inst'l | Refrigeration | Existing | building | 2,375 | 31% | 0.3 | 8 | \$763 | 40% | 0.5 |
| FE-Penelec | Auto Closer on Refrigerator Door | Door w/out Autocloser | Other Inst'l | Refrigeration | New | building | 2,526 | 53% | 0.5 | 8 | \$747 | 40% | 1.0 |
| FE-Penelec | Auto Closer on Refrigerator Door | Door w/out Autocloser | Other Inst'l | Refrigeration | New | building | 2,375 | 31% | 0.3 | 8 | \$763 | 40% | 0.5 |
| FE-Penelec | Door Gasket- Freezer | Door w/out Gasket | Other Inst'l | Refrigeration | Existing | building | 2,526 | 29% | 0.3 | 4 | \$77 | 29% | 2.8 |
| FE-Penelec | Door Gasket- Freezer | Door w/out Gasket | Other Inst'l | Refrigeration | New | building | 2,526 | 32% | 0.3 | 4 | \$77 | 29% | 3.1 |
| FE-Penelec | Door Gasket- Refrigerator | Door w/out Gasket | Other Inst'l | Refrigeration | Existing | building | 2,375 | 9.5% | 0.10 | 4 | \$105 | 45% | 0.6 |
| FE-Penelec | Door Gasket- Refrigerator | Door w/out Gasket | Other Inst'l | Refrigeration | New | building | 2,375 | 9.5% | 0.10 | 4 | \$105 | 45% | 0.6 |
| FE-Penelec | eCube | Refrigeration unit w/out eCube | Other Inst'l | Refrigeration | Existing | building | 2,375 | 15% | 0.2 | 15 | \$700 | 57% | 0.5 |
| FE-Penelec | eCube | Refrigeration unit w/out eCube | Other Inst'l | Refrigeration | New | building | 2,375 | 15% | 0.2 | 15 | \$700 | 57% | 0.5 |
| FE-Penelec | Efficient compressor motor | Base Refrigeration System - Grocery | Other Inst'l | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.6 |
| FE-Penelec | Efficient compressor motor | Base Refrigeration System - Grocery | Other Inst'l | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.6 |
| FE-Penelec | Efficient compressor motor | Base Refrigeration System - Grocery | Other Inst'l | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.6 |
| FE-Penelec | Efficient compressor motor | Base Refrigeration System - Grocery | Other Inst'l | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.6 |
| FE-Penelec | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Other Inst'l | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.5 |
| FE-Penelec | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Other Inst'l | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| FE-Penelec | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Other Inst'l | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| FE-Penelec | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Other Inst'l | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.3 |
| FE-Penelec | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Other Inst'l | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.7 |
| FE-Penelec | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Other Inst'l | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.7 |
| FE-Penelec | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Other Inst'l | Refrigeration | Existing | building | 2,375 | 3.4% | 0.03 | 10 | \$369 | 77% | 0.1 |
| FE-Penelec | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Other Inst'l | Refrigeration | New | building | 2,375 | 3.4% | 0.03 | 10 | \$369 | 77% | 0.1 |
| FE-Penelec | Floating head pressure controller | System w/out FHPC | Other Inst'l | Refrigeration | Existing | building | 2,526 | 9.0% | 0.05 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penelec | Floating head pressure controller | System w/out FHPC | Other Inst'l | Refrigeration | Existing | building | 2,375 | 3.4% | 0.02 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penelec | Floating head pressure controller | System w/out FHPC | Other Inst'l | Refrigeration | New | building | 2,526 | 9.0% | 0.05 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penelec | Floating head pressure controller | System w/out FHPC | Other Inst'l | Refrigeration | New | building | 2,375 | 3.4% | 0.02 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penelec | High Efficiency Commercial Freezer | Std. Commercial Freezer | Other Inst'l | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 86% | 0.3 |
| FE-Penelec | High Efficiency Commercial Freezer | Std. Commercial Freezer | Other Inst'l | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 3.8 |
| FE-Penelec | High Efficiency Commercial Freezer | Std. Commercial Freezer | Other Inst'l | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 3.8 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|---|--------------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Other Inst'l | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 2% | 0.1 |
| FE-Penelec | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Other Inst'l | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.8 |
| FE-Penelec | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Other Inst'l | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.8 |
| FE-Penelec | High Efficiency Ice Maker | Exisiting Standard Efficiency Ice Maker in Pennsylvania | Other Inst'l | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 73% | 0.1 |
| FE-Penelec | High Efficiency Ice Maker | Standard code minimum Ice Maker | Other Inst'l | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| FE-Penelec | High Efficiency Ice Maker | Standard code minimum Ice Maker | Other Inst'l | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| FE-Penelec | High Efficiency Ice Making Head | Standard Ice Making Head | Other Inst'l | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.7 |
| FE-Penelec | High Efficiency Ice Making Head | Standard Ice Making Head | Other Inst'l | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.7 |
| FE-Penelec | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Other Inst'l | Refrigeration | Early | Fixture | 373 | 56% | 0.01 | 8 | \$448 | 47% | 0.1 |
| FE-Penelec | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Other Inst'l | Refrigeration | New | Fixture | 291 | 44% | 0.00 | 8 | \$139 | 47% | 0.3 |
| FE-Penelec | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Other Inst'l | Refrigeration | ROB | Fixture | 291 | 44% | 0.00 | 8 | \$139 | 47% | 0.3 |
| FE-Penelec | Quick acting freezer doors | Std. Freezer Doors | Other Inst'l | Refrigeration | Existing | building | 2,526 | 13% | 0.1 | 10 | \$401 | 56% | 0.5 |
| FE-Penelec | Quick acting freezer doors | Std. Freezer Doors | Other Inst'l | Refrigeration | New | building | 2,526 | 13% | 0.1 | 10 | \$401 | 56% | 0.5 |
| FE-Penelec | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Other Inst'l | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 30% | 0.4 |
| FE-Penelec | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Other Inst'l | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.5 |
| FE-Penelec | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Other Inst'l | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.5 |
| FE-Penelec | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 30% | 1.6 |
| FE-Penelec | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 2.8 |
| FE-Penelec | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 2.8 |
| FE-Penelec | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 30% | 1.6 |
| FE-Penelec | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 3.8 |
| FE-Penelec | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 3.8 |
| FE-Penelec | Refrigeration Commissioning | Non-commissioned refrigeration system | Other Inst'l | Refrigeration | Existing | building | 5,052 | 9.5% | 0.10 | 3 | \$1,204 | 85% | 0.1 |
| FE-Penelec | Refrigeration Commissioning | Non-commissioned refrigeration system | Other Inst'l | Refrigeration | New | building | 5,052 | 9.5% | 0.10 | 3 | \$1,204 | 85% | 0.1 |
| FE-Penelec | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Other Inst'l | Refrigeration | Existing | building | 2,526 | 59% | 0.6 | 4 | \$80 | 22% | 5.5 |
| FE-Penelec | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Other Inst'l | Refrigeration | Existing | building | 2,375 | 12% | 0.1 | 4 | \$117 | 22% | 0.7 |
| FE-Penelec | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Other Inst'l | Refrigeration | New | building | 2,526 | 59% | 0.6 | 4 | \$80 | 22% | 5.5 |
| FE-Penelec | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Other Inst'l | Refrigeration | New | building | 2,375 | 12% | 0.1 | 4 | \$117 | 22% | 0.7 |
| FE-Penelec | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Other Inst'l | Refrigeration | Existing | building | 2,526 | 12% | 0.1 | 11 | \$119 | 79% | 1.7 |
| FE-Penelec | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Other Inst'l | Refrigeration | New | building | 2,526 | 12% | 0.1 | 11 | \$119 | 79% | 1.7 |
| FE-Penelec | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Other Inst'l | Refrigeration | Existing | building | 2,375 | 8.9% | 0.09 | 11 | \$119 | 79% | 1.2 |
| FE-Penelec | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Other Inst'l | Refrigeration | New | building | 2,375 | 8.9% | 0.09 | 11 | \$119 | 79% | 1.2 |
| FE-Penelec | VSD Controlled Compressor | Compressor w/out VSD | Other Inst'l | Refrigeration | Early | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |
| FE-Penelec | VSD Controlled Compressor | Compressor w/out VSD | Other Inst'l | Refrigeration | New | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |
| FE-Penelec | VSD Controlled Compressor | Compressor w/out VSD | Other Inst'l | Refrigeration | ROB | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |
| FE-Penelec | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Other Inst'l | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$269 | 35% | 0.9 |
| FE-Penelec | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Other Inst'l | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$269 | 35% | 0.8 |
| FE-Penelec | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Other Inst'l | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.0 |
| FE-Penelec | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Other Inst'l | Refrigeration | New | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 2.9 |
| FE-Penelec | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Other Inst'l | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.0 |
| FE-Penelec | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Other Inst'l | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 2.9 |
| FE-Penelec | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 35% | 2.3 |
| FE-Penelec | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 35% | 2.2 |
| FE-Penelec | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 4.9 |
| FE-Penelec | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.6 |
| FE-Penelec | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 4.9 |
| FE-Penelec | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.6 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Other Inst'l | Space Heating | Existing | building | 4,651 | 7.1% | 0.07 | 6 | \$12,713 | 82% | 0.0 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Other Inst'l | Space Heating | New | building | 4,651 | 7.1% | 0.07 | 6 | \$12,713 | 82% | 0.0 |
| FE-Penelec | Adding window shade film | No shade film | Other Inst'l | Space Heating | Existing | building | 4,651 | 1.3% | 0.4 | 10 | \$57 | 13% | 5.0 |
| FE-Penelec | Adding window shade film | No shade film | Other Inst'l | Space Heating | New | building | 4,651 | 1.3% | 0.4 | 10 | \$57 | 13% | 5.0 |
| FE-Penelec | Adding window shade screen | No shade screen | Other Inst'l | Space Heating | Existing | building | 4,651 | 1.1% | 0.01 | 10 | \$22 | 13% | 1.1 |
| FE-Penelec | Adding window shade screen | No shade screen | Other Inst'l | Space Heating | New | building | 4,651 | 1.1% | 0.01 | 10 | \$22 | 13% | 1.1 |
| FE-Penelec | Automated control system | Manual Controls | Other Inst'l | Space Heating | Existing | building | 4,651 | 17% | 0.2 | 15 | \$5,092 | 51% | 0.1 |
| FE-Penelec | Automated control system | Manual Controls | Other Inst'l | Space Heating | New | building | 4,651 | 17% | 0.2 | 15 | \$5,092 | 94% | 0.1 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Other Inst'l | Space Heating | Existing | building | 4,651 | 7.2% | 0.07 | 15 | \$17,130 | 71% | 0.0 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Other Inst'l | Space Heating | New | building | 4,651 | 2.4% | 0.02 | 15 | \$16,283 | 94% | 0.0 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Other Inst'l | Space Heating | Existing | building | 4,651 | 1.4% | 0.04 | 15 | \$37 | 20% | 1.9 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Other Inst'l | Space Heating | New | building | 4,651 | 1.4% | 0.04 | 15 | \$37 | 10% | 1.9 |
| FE-Penelec | Efficient Unit Heating System | Existing Unit Heaters in PA | Other Inst'l | Space Heating | Early | heater | 31,537 | 23% | 0.05 | 15 | \$3,289 | 83% | 1.1 |
| FE-Penelec | Efficient Unit Heating System | Std. Unit Heater | Other Inst'l | Space Heating | New | heater | 27,989 | 13% | 0.03 | 15 | \$1,991 | 83% | 0.9 |
| FE-Penelec | Efficient Unit Heating System | Std. Unit Heater | Other Inst'l | Space Heating | ROB | heater | 27,989 | 13% | 0.03 | 15 | \$1,991 | 83% | 0.9 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Other Inst'l | Space Heating | Existing | building | 4,651 | 7.1% | 0.07 | 15 | \$20,632 | 25% | 0.0 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Other Inst'l | Space Heating | New | building | 4,651 | 7.1% | 0.07 | 15 | \$20,632 | 35% | 0.0 |
| FE-Penelec | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Other Inst'l | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$76 | 80% | 1.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|--|--|--------------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Other Inst'l | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$76 | 80% | 1.0 |
| FE-Penelec | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Other Inst'l | Space Heating | Existing | building | 4,651 | 1.1% | 0.01 | 10 | \$7,735 | 81% | 0.0 |
| FE-Penelec | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Other Inst'l | Space Heating | New | building | 4,651 | 1.1% | 0.01 | 10 | \$7,735 | 81% | 0.0 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Other Inst'l | Space Heating | Existing | building | 4,651 | 3.6% | 0.04 | 11 | \$286 | 49% | 0.3 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Other Inst'l | Space Heating | New | building | 4,651 | 3.1% | 0.03 | 11 | \$146 | 49% | 0.5 |
| FE-Penelec | Re-Commissioning (Existing Construction) | No Re-Commissioning | Other Inst'l | Space Heating | Existing | building | 4,651 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |
| FE-Penelec | VFD on Cooling Tower Fan | Motor w/out VFD | Other Inst'l | Space Heating | Early | motor | 15,151 | 70% | 3.4 | 15 | \$2,843 | 88% | 2.9 |
| FE-Penelec | VFD on Cooling Tower Fan | Motor w/out VFD | Other Inst'l | Space Heating | New | motor | 14,867 | 72% | 3.3 | 15 | \$2,843 | 88% | 2.9 |
| FE-Penelec | VFD on Cooling Tower Fan | Motor w/out VFD | Other Inst'l | Space Heating | ROB | motor | 14,867 | 72% | 3.3 | 15 | \$2,843 | 88% | 2.9 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Other Inst'l | Space Heating | Existing | building | 4,651 | 13% | 0.1 | 15 | \$3,285 | 26% | 0.1 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Other Inst'l | Space Heating | New | building | 4,651 | 0.3% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| FE-Penelec | Green LED Traffic Light | Green Incandescent Traffic Light | Other Inst'l | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 0% | 1.2 |
| FE-Penelec | Green LED Traffic Light | Green Incandescent Traffic Light | Other Inst'l | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| FE-Penelec | Green LED Traffic Light | Green Incandescent Traffic Light | Other Inst'l | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| FE-Penelec | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Other Inst'l | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 0% | 3.0 |
| FE-Penelec | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Other Inst'l | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-Penelec | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Other Inst'l | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-Penelec | Induction Street Lighting | One 100W HPS Street Light Fixture | Other Inst'l | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 0% | 0.3 |
| FE-Penelec | Induction Street Lighting | One 100W HPS Street Light Fixture | Other Inst'l | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.7 |
| FE-Penelec | Induction Street Lighting | One 100W HPS Street Light Fixture | Other Inst'l | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.7 |
| FE-Penelec | LED Street Lighting | One 100W HPS Street Light | Other Inst'l | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 0% | 0.2 |
| FE-Penelec | LED Street Lighting | One 100W HPS Street Light | Other Inst'l | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-Penelec | LED Street Lighting | One 100W HPS Street Light | Other Inst'l | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-Penelec | Red LED Traffic Light | One Red Incandescent Traffic Light | Other Inst'l | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 0% | 1.6 |
| FE-Penelec | Red LED Traffic Light | One Red Incandescent Traffic Light | Other Inst'l | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| FE-Penelec | Red LED Traffic Light | One Red Incandescent Traffic Light | Other Inst'l | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| FE-Penelec | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Other Inst'l | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 0% | 0.1 |
| FE-Penelec | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Other Inst'l | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-Penelec | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Other Inst'l | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-Penelec | Demand controlled Circulating Systems | Constant circulation system | Other Inst'l | Water Heating | Existing | building | 4,231 | 20% | 0.2 | 15 | \$768 | 59% | 0.8 |
| FE-Penelec | Demand controlled Circulating Systems | Constant circulation system | Other Inst'l | Water Heating | New | building | 4,231 | 20% | 0.2 | 15 | \$768 | 59% | 0.8 |
| FE-Penelec | Drainwater Heat Recovery Water Heater | No heat recovery | Other Inst'l | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.9 |
| FE-Penelec | Drainwater Heat Recovery Water Heater | No heat recovery | Other Inst'l | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.9 |
| FE-Penelec | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Other Inst'l | Water Heating | Existing | building | 4,231 | 5.9% | 0.06 | 12 | \$42 | 85% | 3.7 |
| FE-Penelec | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Other Inst'l | Water Heating | New | building | 4,231 | 5.9% | 0.06 | 12 | \$12 | 85% | 12.8 |
| FE-Penelec | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Other Inst'l | Water Heating | Early | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 2.9 |
| FE-Penelec | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Other Inst'l | Water Heating | Early | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 2.9 |
| FE-Penelec | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Other Inst'l | Water Heating | New | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 2.9 |
| FE-Penelec | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Other Inst'l | Water Heating | New | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 2.9 |
| FE-Penelec | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Other Inst'l | Water Heating | ROB | water heater | 10,350 | 65% | 1.2 | 10 | \$1,187 | 68% | 2.8 |
| FE-Penelec | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Other Inst'l | Water Heating | ROB | water heater | 10,350 | 65% | 1.2 | 10 | \$1,187 | 68% | 2.8 |
| FE-Penelec | Heat Recovery Unit | Base Water Heating | Other Inst'l | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.6 |
| FE-Penelec | Heat Recovery Unit | Base Water Heating | Other Inst'l | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.6 |
| FE-Penelec | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Other Inst'l | Water Heating | Early | water heater | 10,645 | 5.9% | 0.1 | 15 | \$307 | 79% | 1.4 |
| FE-Penelec | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Other Inst'l | Water Heating | Early | water heater | 10,645 | 5.9% | 0.1 | 15 | \$307 | 79% | 1.4 |
| FE-Penelec | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Other Inst'l | Water Heating | New | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.8 |
| FE-Penelec | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Other Inst'l | Water Heating | New | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.8 |
| FE-Penelec | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Other Inst'l | Water Heating | ROB | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.8 |
| FE-Penelec | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Other Inst'l | Water Heating | ROB | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.8 |
| FE-Penelec | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Other Inst'l | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$466 | 81% | 39.2 |
| FE-Penelec | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Other Inst'l | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 20.4 |
| FE-Penelec | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Other Inst'l | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 20.4 |
| FE-Penelec | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Other Inst'l | Water Heating | Existing | building | 4,231 | 0.8% | 0.01 | 13 | \$4.9 | 68% | 4.6 |
| FE-Penelec | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Other Inst'l | Water Heating | New | building | 4,231 | 0.8% | 0.01 | 13 | \$4.9 | 0% | 4.6 |
| FE-Penelec | Hot Water Circulation Pump Time-Clock | Constant circulation system | Other Inst'l | Water Heating | Existing | building | 4,231 | 5.3% | 0.05 | 10 | \$17 | 72% | 7.0 |
| FE-Penelec | Hot Water Circulation Pump Time-Clock | Constant circulation system | Other Inst'l | Water Heating | New | building | 4,231 | 5.3% | 0.05 | 10 | \$17 | 72% | 7.0 |
| FE-Penelec | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Other Inst'l | Water Heating | Existing | building | 4,231 | 0.9% | 0.01 | 7 | \$22 | 78% | 0.7 |
| FE-Penelec | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Other Inst'l | Water Heating | New | building | 4,231 | 0.8% | 0.01 | 7 | \$0.5 | 78% | 27.4 |
| FE-Penelec | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Other Inst'l | Water Heating | Existing | building | 4,231 | 4.5% | 0.05 | 5 | \$300 | 0% | 0.2 |
| FE-Penelec | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Other Inst'l | Water Heating | New | building | 4,231 | 3.0% | 0.03 | 5 | \$194 | 0% | 0.2 |
| FE-Penelec | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Other Inst'l | Water Heating | Existing | building | 4,231 | 6.5% | 0.07 | 9 | \$25 | 2% | 5.4 |
| FE-Penelec | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Other Inst'l | Water Heating | New | building | 4,231 | 6.5% | 0.07 | 9 | \$6.0 | 2% | 22.7 |
| FE-Penelec | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Other Inst'l | Water Heating | Early | water heater | 10,645 | 52% | 0.4 | 15 | \$6,222 | 32% | 0.5 |
| FE-Penelec | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Other Inst'l | Water Heating | New | water heater | 10,350 | 51% | 0.4 | 15 | \$6,222 | 32% | 0.5 |
| FE-Penelec | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Other Inst'l | Water Heating | ROB | water heater | 10,350 | 51% | 0.4 | 15 | \$6,222 | 32% | 0.5 |
| FE-Penelec | Ultrasonic Faucet Control | Manual Faucet Control | Other Inst'l | Water Heating | Existing | building | 4,231 | 3.0% | 0.03 | 10 | \$732 | 77% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|--|---|--------------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Ultrasonic Faucet Control | Manual Faucet Control | Other Inst'l | Water Heating | New | building | 4,231 | 3.0% | 0.03 | 10 | \$732 | 77% | 0.1 |
| FE-Penelec | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Other Inst'l | Water Heating | Existing | building | 4,231 | 2.2% | 0.02 | 4 | \$28 | 83% | 0.9 |
| FE-Penelec | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Other Inst'l | Water Heating | New | building | 4,231 | 2.3% | 0.02 | 4 | \$28 | 83% | 0.9 |
| FE-Penelec | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Restaurant | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 57% | 1.1 |
| FE-Penelec | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Restaurant | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 57% | 1.1 |
| FE-Penelec | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Restaurant | Cooking | Early | steamer | 51 | 46% | 0.00 | 12 | \$5,053 | 81% | 0.0 |
| FE-Penelec | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Restaurant | Cooking | New | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-Penelec | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Restaurant | Cooking | ROB | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-Penelec | Electric combination oven (Energy Star) | Standard Oven | Restaurant | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 73% | 2.9 |
| FE-Penelec | Electric combination oven (Energy Star) | Standard Oven | Restaurant | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 73% | 2.9 |
| FE-Penelec | Electric Convection Oven | Conventional convection oven w/ 65% efficiency | Restaurant | Cooking | Early | oven | 8,641 | 37% | 0.6 | 12 | \$4,119 | 81% | 0.4 |
| FE-Penelec | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Restaurant | Cooking | New | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.7 |
| FE-Penelec | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Restaurant | Cooking | ROB | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.7 |
| FE-Penelec | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Restaurant | Cooking | Early | fryer | 6,105 | 23% | 0.3 | 12 | \$9,241 | 86% | 0.1 |
| FE-Penelec | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Restaurant | Cooking | New | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| FE-Penelec | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Restaurant | Cooking | ROB | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| FE-Penelec | High Efficiency Griddle (ENERGY STAR) | Efficiency code minimum griddle (70% eff) | Restaurant | Cooking | Early | griddle | 11,317 | 65% | 1.4 | 12 | \$4,977 | 86% | 0.8 |
| FE-Penelec | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Restaurant | Cooking | New | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.2 |
| FE-Penelec | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Restaurant | Cooking | ROB | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.2 |
| FE-Penelec | High Efficiency Induction Cooking | Standard Cooking | Restaurant | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 76% | 0.1 |
| FE-Penelec | High Efficiency Induction Cooking | Standard Cooking | Restaurant | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 76% | 0.1 |
| FE-Penelec | Solid-state temperature controls | No Solid State Controls | Restaurant | Cooking | Existing | building | 35,836 | 3.6% | 0.04 | 12 | \$161 | 32% | 3.5 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Restaurant | Cooling Central | Existing | building | 2,807 | 7.0% | 0.07 | 6 | \$19,828 | 82% | 0.0 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Restaurant | Cooling Central | New | building | 2,807 | 7.0% | 0.07 | 6 | \$19,828 | 82% | 0.0 |
| FE-Penelec | Adding window shade film | No shade film | Restaurant | Cooling Central | Existing | building | 2,807 | 1.3% | 0.4 | 10 | \$34 | 12% | 8.0 |
| FE-Penelec | Adding window shade film | No shade film | Restaurant | Cooling Central | New | building | 2,807 | 1.3% | 0.4 | 10 | \$34 | 13% | 8.0 |
| FE-Penelec | Adding window shade screen | No shade screen | Restaurant | Cooling Central | Existing | building | 2,807 | 1.0% | 0.01 | 10 | \$13 | 13% | 1.4 |
| FE-Penelec | Adding window shade screen | No shade screen | Restaurant | Cooling Central | New | building | 2,807 | 1.1% | 0.01 | 10 | \$13 | 13% | 1.4 |
| FE-Penelec | Automated control system | Manual Controls | Restaurant | Cooling Central | Existing | building | 2,807 | 17% | 0.2 | 15 | \$3,073 | 51% | 0.1 |
| FE-Penelec | Automated control system | Manual Controls | Restaurant | Cooling Central | New | building | 2,807 | 17% | 0.2 | 15 | \$3,073 | 94% | 0.1 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Restaurant | Cooling Central | Existing | building | 2,807 | 8.9% | 0.09 | 15 | \$26,661 | 71% | 0.0 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Restaurant | Cooling Central | New | building | 2,807 | 3.0% | 0.03 | 15 | \$25,342 | 94% | 0.0 |
| FE-Penelec | Chiller Tuneup/Diagnostics | No tuneup | Restaurant | Cooling Central | Existing | building | 2,807 | 8.0% | 0.08 | 10 | \$7,167 | 59% | 0.0 |
| FE-Penelec | Chiller Tuneup/Diagnostics | No tuneup | Restaurant | Cooling Central | New | building | 2,807 | 8.0% | 0.08 | 10 | \$7,167 | 59% | 0.0 |
| FE-Penelec | Commercial energy recovery ventilation systems | No Commercial Recovery System | Restaurant | Cooling Central | Existing | building | 2,807 | 16% | 0.2 | 14 | \$2,536 | 71% | 0.1 |
| FE-Penelec | Cooling Tower Optimization | No Cooling Tower Optimization | Restaurant | Cooling Central | Existing | building | 2,807 | 20% | 0.2 | 10 | \$17 | 69% | 19.9 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Restaurant | Cooling Central | Existing | building | 2,807 | 1.4% | 0.04 | 15 | \$22 | 20% | 2.6 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Restaurant | Cooling Central | New | building | 2,807 | 1.4% | 0.04 | 15 | \$22 | 10% | 2.6 |
| FE-Penelec | Facility Commissioning | No Facility Commissioning | Restaurant | Cooling Central | New | building | 2,807 | 16% | 0.2 | 10 | \$8,002 | 89% | 0.0 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Restaurant | Cooling Central | Existing | building | 2,807 | 7.0% | 0.07 | 15 | \$12,450 | 25% | 0.0 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Restaurant | Cooling Central | New | building | 2,807 | 7.0% | 0.07 | 15 | \$12,450 | 35% | 0.0 |
| FE-Penelec | Hi Eff HVAC System Design | No HVAC Design | Restaurant | Cooling Central | New | building | 2,807 | 12% | 0.1 | 10 | \$113,086 | 51% | 0.0 |
| FE-Penelec | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | Early | ton | 3,841 | 24% | 0.3 | 15 | \$108,550 | 88% | 0.0 |
| FE-Penelec | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | New | ton | 3,140 | 6.7% | 0.07 | 15 | \$12,927 | 88% | 0.0 |
| FE-Penelec | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | ROB | ton | 3,140 | 6.7% | 0.07 | 15 | \$12,927 | 88% | 0.0 |
| FE-Penelec | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | Early | ton | 5,740 | 23% | 0.5 | 15 | \$140,105 | 88% | 0.0 |
| FE-Penelec | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | New | ton | 4,618 | 4.9% | 0.08 | 15 | \$9,336 | 88% | 0.0 |
| FE-Penelec | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | ROB | ton | 4,618 | 4.9% | 0.08 | 15 | \$9,336 | 88% | 0.0 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | Early | ton | 46,985 | 26% | 4.2 | 15 | \$105,354 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | New | ton | 40,938 | 15% | 2.1 | 15 | \$30,530 | 88% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | ROB | ton | 40,938 | 15% | 2.1 | 15 | \$30,530 | 88% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | Early | ton | 70,371 | 23% | 5.6 | 15 | \$154,107 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | New | ton | 64,645 | 16% | 3.6 | 15 | \$27,646 | 88% | 0.3 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | ROB | ton | 70,371 | 23% | 5.6 | 15 | \$27,646 | 88% | 0.5 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | Early | ton | 116,873 | 23% | 9.2 | 15 | \$302,924 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | New | ton | 105,779 | 14% | 5.3 | 15 | \$115,432 | 88% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|--|--|------------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | ROB | ton | 116,873 | 23% | 9.2 | 15 | \$115,432 | 88% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | Early | ton | 140,248 | 23% | 11.0 | 15 | \$350,154 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | New | ton | 126,935 | 14% | 6.4 | 15 | \$120,406 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | ROB | ton | 140,248 | 23% | 11.0 | 15 | \$120,406 | 88% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | Early | ton | 31,087 | 29% | 3.2 | 15 | \$83,632 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | New | ton | 24,139 | 8.9% | 0.7 | 15 | \$40,211 | 88% | 0.0 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | ROB | ton | 31,087 | 29% | 3.2 | 15 | \$40,211 | 88% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | Early | ton | 53,416 | 35% | 6.5 | 15 | \$132,173 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | New | ton | 39,839 | 13% | 1.7 | 15 | \$39,556 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | ROB | ton | 39,839 | 13% | 1.7 | 15 | \$39,556 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | Early | ton | 89,181 | 39% | 12.1 | 15 | \$187,029 | 88% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | New | ton | 63,585 | 15% | 3.2 | 15 | \$33,554 | 88% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | ROB | ton | 89,181 | 39% | 12.1 | 15 | \$33,554 | 88% | 0.9 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | Early | ton | 15,605 | 30% | 1.6 | 15 | \$32,398 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | New | ton | 12,364 | 11% | 0.5 | 15 | \$7,188 | 88% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | ROB | ton | 15,605 | 30% | 1.6 | 15 | \$7,188 | 88% | 0.6 |
| FE-Penelec | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Restaurant | Cooling Central | Existing | building | 2,807 | 3.5% | 0.04 | 10 | \$2,513 | 81% | 0.0 |
| FE-Penelec | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Restaurant | Cooling Central | New | building | 2,807 | 3.5% | 0.04 | 10 | \$2,513 | 81% | 0.0 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Restaurant | Cooling Central | Existing | building | 2,807 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.1 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Restaurant | Cooling Central | New | building | 2,807 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.2 |
| FE-Penelec | Re-Commissioning (Existing Construction) | No Re-Commissioning | Restaurant | Cooling Central | Existing | building | 2,807 | 16% | 0.2 | 5 | \$12,732 | 86% | 0.0 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Restaurant | Cooling Central | Existing | building | 2,807 | 12% | 0.1 | 15 | \$6,404 | 26% | 0.0 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Restaurant | Cooling Central | New | building | 2,807 | 0.5% | 0.01 | 15 | \$4,912 | 94% | 0.0 |
| FE-Penelec | <65k BTU/hr 14 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Restaurant | Cooling Unitary | Early | ton | 2,417 | 16% | 0.2 | 15 | \$1,545 | 29% | 0.2 |
| FE-Penelec | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Restaurant | Cooling Unitary | New | ton | 2,189 | 7.1% | 0.07 | 15 | \$339 | 29% | 0.4 |
| FE-Penelec | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Restaurant | Cooling Unitary | ROB | ton | 2,189 | 7.1% | 0.07 | 15 | \$339 | 29% | 0.4 |
| FE-Penelec | <65k BTU/hr 15 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Restaurant | Cooling Unitary | Early | ton | 2,417 | 22% | 0.2 | 15 | \$1,821 | 30% | 0.3 |
| FE-Penelec | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Restaurant | Cooling Unitary | New | ton | 2,189 | 13% | 0.1 | 15 | \$714 | 30% | 0.4 |
| FE-Penelec | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Restaurant | Cooling Unitary | ROB | ton | 2,189 | 13% | 0.1 | 15 | \$714 | 30% | 0.4 |
| FE-Penelec | <65k BTU/hr 16 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Restaurant | Cooling Unitary | Early | ton | 2,417 | 26% | 0.3 | 15 | \$2,098 | 31% | 0.3 |
| FE-Penelec | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Restaurant | Cooling Unitary | New | ton | 2,189 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.4 |
| FE-Penelec | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Restaurant | Cooling Unitary | ROB | ton | 2,189 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.4 |
| FE-Penelec | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Restaurant | Cooling Unitary | Early | ton | 61,152 | 3.7% | 1.1 | 15 | \$68,066 | 56% | 0.0 |
| FE-Penelec | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Restaurant | Cooling Unitary | New | ton | 61,936 | 4.9% | 1.4 | 15 | \$6,231 | 56% | 0.5 |
| FE-Penelec | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Restaurant | Cooling Unitary | ROB | ton | 61,936 | 4.9% | 1.4 | 15 | \$6,231 | 56% | 0.5 |
| FE-Penelec | 135-240k min 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Restaurant | Cooling Unitary | Early | ton | 15,047 | 18% | 1.3 | 15 | \$18,135 | 79% | 0.1 |
| FE-Penelec | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Restaurant | Cooling Unitary | New | ton | 13,687 | 10.0% | 0.6 | 15 | \$1,948 | 79% | 0.7 |
| FE-Penelec | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Restaurant | Cooling Unitary | ROB | ton | 13,687 | 10.0% | 0.6 | 15 | \$1,948 | 79% | 0.7 |
| FE-Penelec | 240k-760k min 11 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Restaurant | Cooling Unitary | Early | ton | 40,231 | 9.0% | 1.7 | 15 | \$44,809 | 66% | 0.1 |
| FE-Penelec | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Restaurant | Cooling Unitary | New | ton | 40,332 | 9.3% | 1.7 | 15 | \$4,813 | 66% | 0.8 |
| FE-Penelec | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Restaurant | Cooling Unitary | ROB | ton | 40,332 | 9.3% | 1.7 | 15 | \$4,813 | 66% | 0.8 |
| FE-Penelec | 65k-135k BTU/hr 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Restaurant | Cooling Unitary | Early | ton | 8,870 | 17% | 0.7 | 15 | \$10,946 | 86% | 0.1 |
| FE-Penelec | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Restaurant | Cooling Unitary | New | ton | 7,905 | 6.7% | 0.2 | 15 | \$1,392 | 86% | 0.4 |
| FE-Penelec | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Restaurant | Cooling Unitary | ROB | ton | 7,905 | 6.7% | 0.2 | 15 | \$1,392 | 86% | 0.4 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Restaurant | Cooling Unitary | Existing | building | 26,041 | 7.0% | 0.07 | 6 | \$19,828 | 82% | 0.0 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Restaurant | Cooling Unitary | New | building | 26,041 | 7.1% | 0.07 | 6 | \$19,828 | 82% | 0.0 |
| FE-Penelec | Adding window shade film | No shade film | Restaurant | Cooling Unitary | Existing | building | 26,041 | 1.3% | 0.4 | 10 | \$317 | 12% | 1.2 |
| FE-Penelec | Adding window shade film | No shade film | Restaurant | Cooling Unitary | New | building | 26,041 | 1.3% | 0.4 | 10 | \$317 | 13% | 1.2 |
| FE-Penelec | Adding window shade screen | No shade screen | Restaurant | Cooling Unitary | Existing | building | 26,041 | 1.1% | 0.01 | 10 | \$123 | 12% | 0.9 |
| FE-Penelec | Adding window shade screen | No shade screen | Restaurant | Cooling Unitary | New | building | 26,041 | 1.1% | 0.01 | 10 | \$123 | 13% | 0.9 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|---|------------|-----------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Automated control system | Manual Controls | Restaurant | Cooling Unitary | Existing | building | 26,041 | 17% | 0.2 | 15 | \$28,509 | 51% | 0.1 |
| FE-Penelec | Automated control system | Manual Controls | Restaurant | Cooling Unitary | New | building | 26,041 | 17% | 0.2 | 15 | \$28,509 | 94% | 0.1 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Restaurant | Cooling Unitary | Existing | building | 26,041 | 8.9% | 0.09 | 15 | \$26,661 | 71% | 0.0 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Restaurant | Cooling Unitary | New | building | 26,041 | 3.0% | 0.03 | 15 | \$25,342 | 94% | 0.0 |
| FE-Penelec | Commercial energy recovery ventilation systems | No Commercial Recovery System | Restaurant | Cooling Unitary | Existing | building | 26,041 | 16% | 0.2 | 14 | \$23,532 | 71% | 0.1 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Restaurant | Cooling Unitary | Existing | building | 26,041 | 1.4% | 0.04 | 15 | \$207 | 20% | 1.1 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Restaurant | Cooling Unitary | New | building | 26,041 | 1.4% | 0.04 | 15 | \$207 | 10% | 1.1 |
| FE-Penelec | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Restaurant | Cooling Unitary | Existing | building | 14,323 | 13% | 0.1 | 1 | \$137 | 73% | 0.8 |
| FE-Penelec | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Restaurant | Cooling Unitary | New | building | 14,323 | 13% | 0.1 | 1 | \$137 | 73% | 0.8 |
| FE-Penelec | ECM Motors for split systems | Std Shaded Pole Motor | Restaurant | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.9 |
| FE-Penelec | ECM Motors for split systems | Std Shaded Pole Motor | Restaurant | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.9 |
| FE-Penelec | Facility Commissioning | No Facility Commissioning | Restaurant | Cooling Unitary | New | building | 26,041 | 16% | 0.2 | 10 | \$423 | 89% | 4.0 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Restaurant | Cooling Unitary | Existing | building | 26,041 | 7.1% | 0.07 | 15 | \$115,512 | 25% | 0.0 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Restaurant | Cooling Unitary | New | building | 26,041 | 7.0% | 0.07 | 15 | \$115,512 | 35% | 0.0 |
| FE-Penelec | Hi Eff HVAC System Design | No HVAC Design | Restaurant | Cooling Unitary | New | building | 26,041 | 12% | 0.1 | 10 | \$1,512 | 51% | 0.8 |
| FE-Penelec | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Restaurant | Cooling Unitary | Existing | building | 26,041 | 5.0% | 0.05 | 5 | \$225 | 59% | 1.3 |
| FE-Penelec | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Restaurant | Cooling Unitary | Existing | building | 26,041 | 0.5% | 0.05 | 5 | \$225 | 51% | 0.2 |
| FE-Penelec | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Restaurant | Cooling Unitary | New | building | 26,041 | 0.5% | 0.05 | 5 | \$135 | 51% | 0.3 |
| FE-Penelec | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Restaurant | Cooling Unitary | Existing | building | 26,041 | 3.5% | 0.04 | 10 | \$2,701 | 86% | 0.1 |
| FE-Penelec | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Restaurant | Cooling Unitary | New | building | 26,041 | 3.5% | 0.04 | 10 | \$2,701 | 86% | 0.1 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) | Restaurant | Cooling Unitary | Existing | building | 26,041 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.8 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Restaurant | Cooling Unitary | New | building | 26,041 | 1.7% | 0.02 | 11 | \$146 | 49% | 1.3 |
| FE-Penelec | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Restaurant | Cooling Unitary | Early | unit | 642 | 19% | 0.09 | 15 | \$849 | 85% | 0.2 |
| FE-Penelec | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Restaurant | Cooling Unitary | New | unit | 648 | 20% | 0.09 | 15 | \$356 | 85% | 0.4 |
| FE-Penelec | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Restaurant | Cooling Unitary | ROB | unit | 648 | 20% | 0.09 | 15 | \$356 | 85% | 0.4 |
| FE-Penelec | Re-Commissioning (Existing Construction) | No Re-Commissioning | Restaurant | Cooling Unitary | Existing | building | 26,041 | 16% | 0.2 | 5 | \$12,732 | 86% | 0.1 |
| FE-Penelec | Room AC (w/ louvered sides) | Exisiting efficiency Room AC in Pennsylvania (2000 Federal Standards) | Restaurant | Cooling Unitary | Early | ton | 740 | 13% | 0.03 | 9 | \$348 | 82% | 0.2 |
| FE-Penelec | Room AC (w/ louvered sides) | Std Room AC (Code Min. Federal Standards) | Restaurant | Cooling Unitary | New | ton | 671 | 4.5% | 0.01 | 9 | \$17 | 82% | 1.0 |
| FE-Penelec | Room AC (w/ louvered sides) | Std Room AC (Code Min. Federal Standards) | Restaurant | Cooling Unitary | ROB | ton | 671 | 4.5% | 0.01 | 9 | \$17 | 82% | 1.0 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Restaurant | Cooling Unitary | Existing | building | 26,041 | 12% | 0.1 | 15 | \$6,404 | 26% | 0.3 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Restaurant | Cooling Unitary | New | building | 26,041 | 0.5% | 0.01 | 15 | \$4,912 | 94% | 0.0 |
| FE-Penelec | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Restaurant | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 1.1 |
| FE-Penelec | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Restaurant | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.4 |
| FE-Penelec | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Restaurant | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.4 |
| FE-Penelec | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Restaurant | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 0% | 0.2 |
| FE-Penelec | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Restaurant | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-Penelec | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Restaurant | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-Penelec | LED exterior lighting | 250 Watt Incandescent | Restaurant | Ext. Lighting | ROB | measure | 515 | 83% | 0.1 | 15 | \$104 | 89% | 3.1 |
| FE-Penelec | LED exterior lighting | 250 Watt Incandescent | Restaurant | Ext. Lighting | ROB | measure | 515 | 83% | 0.1 | 15 | \$104 | 89% | 3.1 |
| FE-Penelec | LED exterior lighting | 250 Watt Incandescent | Restaurant | Ext. Lighting | ROB | measure | 515 | 83% | 0.1 | 15 | \$104 | 89% | 3.1 |
| FE-Penelec | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Restaurant | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 75% | 0.3 |
| FE-Penelec | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Restaurant | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 75% | 0.2 |
| FE-Penelec | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Restaurant | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.8 |
| FE-Penelec | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Restaurant | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.1 |
| FE-Penelec | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Restaurant | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.8 |
| FE-Penelec | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Restaurant | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.1 |
| FE-Penelec | Photocell Controls (Outdoor) | Lighting w/ No Controls | Restaurant | Ext. Lighting | Existing | building | 161 | 28% | 0.3 | 8 | \$891 | 88% | 0.2 |
| FE-Penelec | Photocell Controls (Outdoor) | Lighting w/ No Controls | Restaurant | Ext. Lighting | New | building | 161 | 28% | 0.3 | 8 | \$891 | 0% | 0.2 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Restaurant | Heat Pump | Existing | building | 2,007 | 6.9% | 0.07 | 6 | \$19,828 | 82% | 0.0 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Restaurant | Heat Pump | New | building | 2,007 | 6.9% | 0.07 | 6 | \$19,828 | 82% | 0.0 |
| FE-Penelec | Adding window shade film | No shade film | Restaurant | Heat Pump | Existing | building | 2,007 | 3.9% | 0.4 | 10 | \$24 | 12% | 11.8 |
| FE-Penelec | Adding window shade film | No shade film | Restaurant | Heat Pump | New | building | 2,007 | 3.9% | 0.4 | 10 | \$24 | 12% | 11.8 |
| FE-Penelec | Adding window shade screen | No shade screen | Restaurant | Heat Pump | Existing | building | 2,007 | 0.3% | 0.01 | 10 | \$3.1 | 12% | 3.0 |
| FE-Penelec | Adding window shade screen | No shade screen | Restaurant | Heat Pump | New | building | 2,007 | 0.3% | 0.01 | 10 | \$3.1 | 12% | 3.0 |
| FE-Penelec | Automated control system | Manual Controls | Restaurant | Heat Pump | Existing | building | 2,007 | 17% | 0.2 | 15 | \$2,197 | 51% | 0.1 |
| FE-Penelec | Automated control system | Manual Controls | Restaurant | Heat Pump | New | building | 2,007 | 17% | 0.2 | 15 | \$2,197 | 94% | 0.1 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Restaurant | Heat Pump | Existing | building | 2,007 | 8.9% | 0.09 | 15 | \$26,661 | 71% | 0.0 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Restaurant | Heat Pump | New | building | 2,007 | 3.0% | 0.03 | 15 | \$25,342 | 94% | 0.0 |
| FE-Penelec | Commercial energy recovery ventilation systems | No Commercial Recovery System | Restaurant | Heat Pump | Existing | building | 2,007 | 16% | 0.2 | 14 | \$1,065,028 | 71% | 0.0 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Restaurant | Heat Pump | Existing | building | 2,007 | 4.0% | 0.04 | 15 | \$16 | 12% | 4.8 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Restaurant | Heat Pump | New | building | 2,007 | 4.0% | 0.04 | 15 | \$16 | 6% | 4.8 |
| FE-Penelec | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Restaurant | Heat Pump | Early | heat pump | 2,095 | 11% | 0.02 | 15 | \$4,070 | 83% | 0.0 |
| FE-Penelec | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Restaurant | Heat Pump | New | heat pump | 2,020 | 8.0% | 0.01 | 15 | \$1,097 | 83% | 0.1 |
| FE-Penelec | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Restaurant | Heat Pump | ROB | heat pump | 2,020 | 8.0% | 0.01 | 15 | \$1,097 | 83% | 0.1 |
| FE-Penelec | Facility Commissioning | No Facility Commissioning | Restaurant | Heat Pump | New | building | 2,007 | 16% | 0.2 | 10 | \$8,002 | 89% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|--|--|------------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Restaurant | Heat Pump | Existing | building | 2,007 | 7.0% | 0.07 | 15 | \$8,903 | 25% | 0.0 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Restaurant | Heat Pump | New | building | 2,007 | 7.0% | 0.07 | 15 | \$8,903 | 35% | 0.0 |
| FE-Penelec | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Restaurant | Heat Pump | Early | heat pump | 22,063 | 13% | 0.2 | 15 | \$91,117 | 19% | 0.0 |
| FE-Penelec | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Restaurant | Heat Pump | New | heat pump | 21,528 | 11% | 0.2 | 15 | \$33,927 | 19% | 0.0 |
| FE-Penelec | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Restaurant | Heat Pump | ROB | heat pump | 21,528 | 11% | 0.2 | 15 | \$33,927 | 19% | 0.0 |
| FE-Penelec | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Restaurant | Heat Pump | Early | heat pump | 22,063 | 13% | 0.2 | 15 | \$58,356 | 19% | 0.0 |
| FE-Penelec | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Restaurant | Heat Pump | New | heat pump | 21,528 | 11% | 0.2 | 15 | \$1,167 | 19% | 1.1 |
| FE-Penelec | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Restaurant | Heat Pump | ROB | heat pump | 21,528 | 11% | 0.2 | 15 | \$1,167 | 19% | 1.1 |
| FE-Penelec | Hi Eff HVAC System Design | No HVAC Design | Restaurant | Heat Pump | New | building | 2,007 | 12% | 0.1 | 10 | \$113,086 | 51% | 0.0 |
| FE-Penelec | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Restaurant | Heat Pump | Early | heat pump | 5,855 | 15% | 0.08 | 12 | \$4,298 | 81% | 0.1 |
| FE-Penelec | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Restaurant | Heat Pump | New | heat pump | 5,666 | 12% | 0.06 | 12 | \$852 | 81% | 0.4 |
| FE-Penelec | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Restaurant | Heat Pump | ROB | heat pump | 5,666 | 12% | 0.06 | 12 | \$852 | 81% | 0.4 |
| FE-Penelec | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Restaurant | Heat Pump | Existing | building | 2,007 | 5.0% | 0.01 | 5 | \$90 | 51% | 0.3 |
| FE-Penelec | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Restaurant | Heat Pump | New | building | 2,007 | 5.0% | 0.01 | 5 | \$90 | 51% | 0.3 |
| FE-Penelec | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Restaurant | Heat Pump | Existing | building | 2,007 | 3.5% | 0.04 | 10 | \$2,405 | 81% | 0.0 |
| FE-Penelec | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Restaurant | Heat Pump | New | building | 2,007 | 3.5% | 0.04 | 10 | \$2,405 | 81% | 0.0 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Restaurant | Heat Pump | Existing | building | 2,007 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.1 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Restaurant | Heat Pump | New | building | 2,007 | 2.1% | 0.02 | 11 | \$146 | 49% | 0.2 |
| FE-Penelec | Re-Commissioning (Existing Construction) | No Re-Commissioning | Restaurant | Heat Pump | Existing | building | 2,007 | 16% | 0.2 | 5 | \$12,732 | 86% | 0.0 |
| FE-Penelec | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Restaurant | Heat Pump | New | measure | 2,695,700 | 2.0% | 6.2 | 13 | \$339,358 | 43% | 0.1 |
| FE-Penelec | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Restaurant | Heat Pump | ROB | measure | 2,695,700 | 2.0% | 6.2 | 13 | \$339,358 | 43% | 0.1 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Restaurant | Heat Pump | Existing | building | 2,007 | 12% | 0.1 | 15 | \$6,404 | 26% | 0.0 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Restaurant | Heat Pump | New | building | 2,007 | 0.5% | 0.01 | 15 | \$4,912 | 94% | 0.0 |
| FE-Penelec | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Restaurant | Heat Pump | Early | heat pump | 9,678 | 39% | 0.3 | 15 | \$35,347 | 28% | 0.1 |
| FE-Penelec | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Restaurant | Heat Pump | New | heat pump | 9,374 | 37% | 0.3 | 15 | \$15,739 | 28% | 0.1 |
| FE-Penelec | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Restaurant | Heat Pump | ROB | heat pump | 9,374 | 37% | 0.3 | 15 | \$15,739 | 28% | 0.1 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | Early | Fixture | 1,000 | 9.6% | 0.02 | 13 | \$850 | 39% | 0.1 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Restaurant | High Bay Lighting | Early | Fixture | 999 | 9.5% | 0.02 | 13 | \$850 | 28% | 0.1 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Restaurant | High Bay Lighting | Early | Fixture | 1,542 | 41% | 0.1 | 13 | \$850 | 36% | 0.5 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | New | Fixture | 760 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Restaurant | High Bay Lighting | New | Fixture | 707 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Restaurant | High Bay Lighting | New | Fixture | 1,172 | 41% | 0.09 | 13 | \$397 | 36% | 0.8 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 1,000 | 9.6% | 0.02 | 13 | \$372 | 39% | 0.2 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 930 | 2.9% | 0.01 | 13 | \$338 | 28% | 0.0 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 1,542 | 41% | 0.1 | 13 | \$397 | 36% | 1.0 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | Early | Fixture | 1,941 | 19% | 0.07 | 13 | \$851 | 38% | 0.3 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Restaurant | High Bay Lighting | Early | Fixture | 1,965 | 20% | 0.08 | 13 | \$851 | 38% | 0.3 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | Early | Fixture | 5,715 | 73% | 0.8 | 13 | \$851 | 38% | 3.1 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | New | Fixture | 1,475 | 19% | 0.05 | 13 | \$372 | 38% | 0.5 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | New | Fixture | 4,344 | 73% | 0.6 | 13 | \$383 | 38% | 5.2 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 1,941 | 19% | 0.07 | 13 | \$372 | 38% | 0.6 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 5,715 | 73% | 0.8 | 13 | \$383 | 38% | 6.8 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | Early | Fixture | 1,941 | 25% | 0.09 | 13 | \$554 | 29% | 0.5 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Restaurant | High Bay Lighting | Early | Fixture | 1,905 | 23% | 0.09 | 13 | \$554 | 28% | 0.5 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | Early | Fixture | 5,715 | 74% | 0.8 | 13 | \$554 | 36% | 4.8 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | New | Fixture | 1,475 | 25% | 0.07 | 13 | \$75 | 29% | 3.1 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | New | Fixture | 4,344 | 74% | 0.6 | 13 | \$86 | 36% | 23.6 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 1,941 | 25% | 0.09 | 13 | \$75 | 29% | 4.0 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 5,715 | 74% | 0.8 | 13 | \$86 | 36% | 31.1 |
| FE-Penelec | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Restaurant | High Bay Lighting | Early | Fixture | 506 | 0.2% | 0.00 | 13 | \$835 | 38% | 0.0 |
| FE-Penelec | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Restaurant | High Bay Lighting | Early | Fixture | 1,090 | 54% | 0.1 | 13 | \$835 | 38% | 0.4 |
| FE-Penelec | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Restaurant | High Bay Lighting | New | Fixture | 828 | 54% | 0.09 | 13 | \$382 | 38% | 0.7 |
| FE-Penelec | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 1,090 | 54% | 0.1 | 13 | \$382 | 38% | 1.0 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | Early | Fixture | 2,472 | 18% | 0.09 | 13 | \$487 | 25% | 0.6 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Restaurant | High Bay Lighting | Early | Fixture | 2,585 | 22% | 0.1 | 13 | \$487 | 28% | 0.7 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | Early | Fixture | 5,715 | 65% | 0.7 | 13 | \$487 | 36% | 4.8 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | New | Fixture | 1,879 | 18% | 0.07 | 13 | \$16 | 25% | 13.2 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | New | Fixture | 4,344 | 65% | 0.5 | 13 | \$18 | 36% | 95.7 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 2,472 | 18% | 0.09 | 13 | \$16 | 25% | 17.4 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 5,715 | 65% | 0.7 | 13 | \$18 | 36% | 125.8 |
| FE-Penelec | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | Early | Fixture | 2,472 | 1.5% | 0.01 | 13 | \$557 | 19% | 0.0 |
| FE-Penelec | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Restaurant | High Bay Lighting | Early | Fixture | 2,545 | 4.3% | 0.02 | 13 | \$557 | 19% | 0.1 |
| FE-Penelec | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | Early | Fixture | 5,715 | 57% | 0.6 | 13 | \$557 | 19% | 3.7 |
| FE-Penelec | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | New | Fixture | 1,879 | 1.5% | 0.01 | 13 | \$86 | 19% | 0.2 |
| FE-Penelec | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | New | Fixture | 4,344 | 57% | 0.5 | 13 | \$88 | 19% | 17.7 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|---|------------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 2,472 | 1.5% | 0.01 | 13 | \$86 | 19% | 0.3 |
| FE-Penelec | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 5,715 | 57% | 0.6 | 13 | \$88 | 19% | 23.3 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Restaurant | High Bay Lighting | Early | Fixture | 1,050 | 29% | 0.04 | 13 | \$492 | 71% | 0.4 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | Early | Fixture | 878 | 15% | 0.02 | 13 | \$492 | 95% | 0.2 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Restaurant | High Bay Lighting | Early | Fixture | 1,304 | 43% | 0.08 | 13 | \$492 | 95% | 0.7 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Restaurant | High Bay Lighting | Early | Fixture | 1,209 | 38% | 0.06 | 13 | \$492 | 95% | 0.5 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | New | Fixture | 667 | 15% | 0.01 | 13 | \$25 | 95% | 2.3 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Restaurant | High Bay Lighting | New | Fixture | 991 | 43% | 0.06 | 13 | \$51 | 95% | 4.8 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 878 | 15% | 0.02 | 13 | \$25 | 95% | 3.1 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 1,304 | 43% | 0.08 | 13 | \$51 | 95% | 6.3 |
| FE-Penelec | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Restaurant | High Bay Lighting | Early | lamp | 120 | 16% | 0.00 | 9 | \$7.7 | 99% | 1.1 |
| FE-Penelec | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Restaurant | High Bay Lighting | New | lamp | 72 | 13% | 0.00 | 9 | \$1.6 | 91% | 2.5 |
| FE-Penelec | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Restaurant | High Bay Lighting | ROB | lamp | 116 | 13% | 0.00 | 9 | \$1.6 | 91% | 4.1 |
| FE-Penelec | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | Early | Fixture | 5,848 | 23% | 0.3 | 13 | \$613 | 5% | 1.4 |
| FE-Penelec | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Restaurant | High Bay Lighting | Early | Fixture | 4,595 | 1.6% | 0.01 | 13 | \$613 | 28% | 0.1 |
| FE-Penelec | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | Early | Fixture | 11,431 | 60% | 1.3 | 13 | \$613 | 18% | 7.1 |
| FE-Penelec | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | New | Fixture | 4,445 | 23% | 0.2 | 13 | \$96 | 5% | 6.6 |
| FE-Penelec | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 5,848 | 23% | 0.3 | 13 | \$96 | 5% | 8.6 |
| FE-Penelec | Auto Off Time Switch | Lighting w/ No Controls | Restaurant | High Bay Lighting | Existing | building | 202 | 24% | 0.2 | 8 | \$181 | 13% | 0.9 |
| FE-Penelec | Auto Off Time Switch | Lighting w/ No Controls | Restaurant | High Bay Lighting | New | building | 202 | 6.9% | 0.07 | 8 | \$181 | 0% | 0.3 |
| FE-Penelec | Central Lighting Control System | Lighting w/ No Controls | Restaurant | High Bay Lighting | Existing | building | 202 | 38% | 0.4 | 8 | \$181 | 13% | 1.4 |
| FE-Penelec | Central Lighting Control System | Lighting w/ No Controls | Restaurant | High Bay Lighting | New | building | 202 | 14% | 0.1 | 8 | \$181 | 13% | 0.5 |
| FE-Penelec | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Restaurant | High Bay Lighting | New | building | 202 | 10% | 0.1 | 15 | \$46,260 | 32% | 0.0 |
| FE-Penelec | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Restaurant | High Bay Lighting | New | building | 202 | 15% | 0.2 | 15 | \$115,651 | 32% | 0.0 |
| FE-Penelec | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Restaurant | High Bay Lighting | New | building | 202 | 30% | 0.3 | 15 | \$165,766 | 32% | 0.0 |
| FE-Penelec | Indoor Daylight Sensors | Lighting w/ No Controls | Restaurant | High Bay Lighting | Existing | building | 202 | 28% | 0.3 | 8 | \$891 | 13% | 0.2 |
| FE-Penelec | Indoor Daylight Sensors | Lighting w/ No Controls | Restaurant | High Bay Lighting | New | building | 202 | 4.0% | 0.04 | 8 | \$891 | 0% | 0.0 |
| FE-Penelec | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | Early | Fixture | 5,848 | 92% | 1.0 | 13 | \$1,916 | 95% | 1.8 |
| FE-Penelec | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | Early | Fixture | 11,431 | 96% | 2.1 | 13 | \$1,916 | 95% | 3.6 |
| FE-Penelec | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | New | Fixture | 4,445 | 92% | 0.8 | 13 | \$1,468 | 95% | 1.8 |
| FE-Penelec | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | New | Fixture | 8,687 | 96% | 1.6 | 13 | \$1,149 | 95% | 4.6 |
| FE-Penelec | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 5,848 | 92% | 1.0 | 13 | \$1,468 | 95% | 2.3 |
| FE-Penelec | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 11,431 | 96% | 2.1 | 13 | \$1,149 | 95% | 6.0 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | Early | Fixture | 1,941 | 67% | 0.3 | 13 | \$960 | 95% | 0.8 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Restaurant | High Bay Lighting | Early | Fixture | 5,715 | 89% | 1.0 | 13 | \$960 | 95% | 3.3 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Restaurant | High Bay Lighting | Early | Fixture | 1,568 | 59% | 0.2 | 13 | \$960 | 95% | 0.6 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | New | Fixture | 1,475 | 67% | 0.2 | 13 | \$480 | 95% | 1.3 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Restaurant | High Bay Lighting | New | Fixture | 4,344 | 89% | 0.7 | 13 | \$491 | 95% | 4.9 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Restaurant | High Bay Lighting | New | Fixture | 1,192 | 59% | 0.1 | 13 | \$406 | 95% | 1.1 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 1,941 | 67% | 0.3 | 13 | \$480 | 95% | 1.7 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 5,715 | 89% | 1.0 | 13 | \$491 | 95% | 6.5 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 1,568 | 59% | 0.2 | 13 | \$406 | 95% | 1.4 |
| FE-Penelec | Occupancy Sensor | Lighting w/ No Controls | Restaurant | High Bay Lighting | Existing | building | 202 | 24% | 0.2 | 8 | \$273 | 12% | 0.6 |
| FE-Penelec | Occupancy Sensor | Lighting w/ No Controls | Restaurant | High Bay Lighting | New | building | 202 | 6.9% | 0.07 | 8 | \$273 | 0% | 0.2 |
| FE-Penelec | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Restaurant | High Bay Lighting | Existing | building | 202 | 28% | 0.3 | 8 | \$891 | 12% | 0.2 |
| FE-Penelec | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Restaurant | High Bay Lighting | New | building | 202 | 4.0% | 0.04 | 8 | \$891 | 0% | 0.0 |
| FE-Penelec | Time Clock Control | Lighting w/ No Controls | Restaurant | High Bay Lighting | Existing | building | 202 | 28% | 0.3 | 8 | \$181 | 13% | 1.0 |
| FE-Penelec | Time Clock Control | Lighting w/ No Controls | Restaurant | High Bay Lighting | New | building | 202 | 4.1% | 0.04 | 8 | \$181 | 0% | 0.1 |
| FE-Penelec | Auto Off Time Switch | Lighting w/ No Controls | Restaurant | Lin. Fluor. Lighting | Existing | building | 8,275 | 24% | 0.2 | 8 | \$181 | 13% | 4.2 |
| FE-Penelec | Auto Off Time Switch | Lighting w/ No Controls | Restaurant | Lin. Fluor. Lighting | New | building | 8,275 | 7.0% | 0.07 | 8 | \$181 | 0% | 1.2 |
| FE-Penelec | Central Lighting Control System | Lighting w/ No Controls | Restaurant | Lin. Fluor. Lighting | Existing | building | 8,275 | 38% | 0.4 | 8 | \$181 | 12% | 6.6 |
| FE-Penelec | Central Lighting Control System | Lighting w/ No Controls | Restaurant | Lin. Fluor. Lighting | New | building | 8,275 | 14% | 0.1 | 8 | \$181 | 12% | 2.4 |
| FE-Penelec | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Restaurant | Lin. Fluor. Lighting | New | building | 8,275 | 10% | 0.1 | 15 | \$46,260 | 32% | 0.0 |
| FE-Penelec | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Restaurant | Lin. Fluor. Lighting | New | building | 8,275 | 15% | 0.2 | 15 | \$115,651 | 32% | 0.0 |
| FE-Penelec | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Restaurant | Lin. Fluor. Lighting | New | building | 8,275 | 30% | 0.3 | 15 | \$165,766 | 32% | 0.0 |
| FE-Penelec | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Restaurant | Lin. Fluor. Lighting | Early | Lamp | 242 | 38% | 0.01 | 9 | \$7.3 | 94% | 5.5 |
| FE-Penelec | Indoor Daylight Sensors | Lighting w/ No Controls | Restaurant | Lin. Fluor. Lighting | Existing | building | 8,275 | 28% | 0.3 | 8 | \$891 | 13% | 1.0 |
| FE-Penelec | Indoor Daylight Sensors | Lighting w/ No Controls | Restaurant | Lin. Fluor. Lighting | New | building | 8,275 | 4.1% | 0.04 | 8 | \$891 | 0% | 0.1 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | Early | Lamp | 109 | 19% | 0.00 | 11 | \$35 | 94% | 0.3 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 40W T12 Lamp, Magnetic Ballast | Restaurant | Lin. Fluor. Lighting | Early | Lamp | 240 | 63% | 0.03 | 11 | \$35 | 94% | 2.4 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | Early | Lamp | 135 | 34% | 0.01 | 11 | \$35 | 94% | 0.7 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | Early | Lamp | 131 | 32% | 0.01 | 11 | \$35 | 94% | 0.7 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | New | Lamp | 83 | 19% | 0.00 | 11 | \$28 | 94% | 0.3 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | New | Lamp | 99 | 32% | 0.01 | 11 | \$29 | 94% | 0.6 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | New | Lamp | 102 | 34% | 0.01 | 11 | \$22 | 94% | 0.9 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | New | Lamp | 99 | 32% | 0.01 | 11 | \$29 | 94% | 0.6 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | ROB | Lamp | 109 | 19% | 0.00 | 11 | \$28 | 94% | 0.4 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | ROB | Lamp | 131 | 32% | 0.01 | 11 | \$29 | 94% | 0.8 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | ROB | Lamp | 135 | 34% | 0.01 | 11 | \$22 | 94% | 1.2 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | ROB | Lamp | 131 | 32% | 0.01 | 11 | \$29 | 94% | 0.8 |
| FE-Penelec | Occupancy Sensor | Lighting w/ No Controls | Restaurant | Lin. Fluor. Lighting | Existing | building | 8,275 | 24% | 0.2 | 8 | \$273 | 13% | 2.8 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|--|------------|---------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Restaurant | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 22.0 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Restaurant | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 22.0 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Restaurant | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 22.7 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Restaurant | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 23.1 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Restaurant | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 23.6 |
| FE-Penelec | Escalator Motor Controller | Constant power control | Restaurant | Motors | New | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 22% | 5.9 |
| FE-Penelec | Escalator Motor Controller | Constant power control | Restaurant | Motors | ROB | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 22% | 5.9 |
| FE-Penelec | Fan Motor - correct sizing | Incorrect Fan Motor Sizing | Restaurant | Motors | ROB | measure | 1,593 | 1.6% | 0.00 | 15 | \$50 | 92% | 0.3 |
| FE-Penelec | Variable Speed Drive Control, 15HP | Existing Motors w/out VSD Drive | Restaurant | Motors | Early | motor | 58,335 | 70% | 6.0 | 15 | \$731 | 86% | 37.3 |
| FE-Penelec | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Restaurant | Motors | New | motor | 57,080 | 72% | 6.0 | 15 | \$731 | 86% | 37.3 |
| FE-Penelec | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Restaurant | Motors | ROB | motor | 57,080 | 72% | 6.0 | 15 | \$731 | 86% | 37.3 |
| FE-Penelec | Variable Speed Drive Control, 40HP | Existing Motors w/out VSD Drive | Restaurant | Motors | Early | motor | 152,214 | 71% | 15.8 | 15 | \$4,666 | 86% | 15.4 |
| FE-Penelec | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Restaurant | Motors | New | motor | 150,435 | 72% | 15.8 | 15 | \$4,666 | 86% | 15.4 |
| FE-Penelec | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Restaurant | Motors | ROB | motor | 150,435 | 72% | 15.8 | 15 | \$4,666 | 86% | 15.4 |
| FE-Penelec | Variable Speed Drive Control, 5HP | Existing Motors w/out VFD Drive | Restaurant | Motors | Early | motor | 20,223 | 70% | 2.1 | 15 | \$2,243 | 86% | 4.2 |
| FE-Penelec | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Restaurant | Motors | New | motor | 19,771 | 72% | 2.1 | 15 | \$2,243 | 86% | 4.2 |
| FE-Penelec | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Restaurant | Motors | ROB | motor | 19,771 | 72% | 2.1 | 15 | \$2,243 | 86% | 4.2 |
| FE-Penelec | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Restaurant | Motors | Early | motor | 1,863 | 60% | 0.1 | 15 | \$268 | 86% | 2.6 |
| FE-Penelec | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Restaurant | Motors | New | motor | 1,863 | 60% | 0.1 | 15 | \$268 | 86% | 2.6 |
| FE-Penelec | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Restaurant | Motors | ROB | motor | 1,863 | 60% | 0.1 | 15 | \$268 | 86% | 2.6 |
| FE-Penelec | VFD on Chilled Water Pump | Motor w/out VFD Drive | Restaurant | Motors | Early | motor | 15,151 | 54% | 2.7 | 15 | \$2,903 | 86% | 2.3 |
| FE-Penelec | VFD on Chilled Water Pump | Motor w/out VFD Drive | Restaurant | Motors | New | motor | 14,867 | 55% | 2.7 | 15 | \$2,843 | 86% | 2.3 |
| FE-Penelec | VFD on Chilled Water Pump | Motor w/out VFD Drive | Restaurant | Motors | ROB | motor | 14,867 | 55% | 2.7 | 15 | \$2,843 | 86% | 2.3 |
| FE-Penelec | VFD on Condenser Water Pump | Motor w/out VFD Drive | Restaurant | Motors | Early | motor | 15,040 | 32% | 3.2 | 15 | \$2,903 | 86% | 1.9 |
| FE-Penelec | VFD on Condenser Water Pump | Motor w/out VFD Drive | Restaurant | Motors | New | motor | 14,759 | 33% | 3.1 | 15 | \$2,843 | 86% | 1.9 |
| FE-Penelec | VFD on Condenser Water Pump | Motor w/out VFD Drive | Restaurant | Motors | ROB | motor | 14,759 | 33% | 3.1 | 15 | \$2,843 | 86% | 1.9 |
| FE-Penelec | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Restaurant | Motors | Early | motor | 31,171 | 56% | 0.00 | 15 | \$2,903 | 86% | 3.0 |
| FE-Penelec | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Restaurant | Motors | New | motor | 30,588 | 57% | 0.00 | 15 | \$2,843 | 86% | 3.1 |
| FE-Penelec | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Restaurant | Motors | ROB | motor | 30,588 | 57% | 0.00 | 15 | \$2,843 | 86% | 3.1 |
| FE-Penelec | VFD on HVAC Fan | Motor w/out VFD | Restaurant | Motors | Early | motor | 15,151 | 70% | 3.4 | 15 | \$2,903 | 86% | 3.0 |
| FE-Penelec | VFD on HVAC Fan | Motor w/out VFD | Restaurant | Motors | New | motor | 14,867 | 72% | 3.3 | 15 | \$2,843 | 86% | 3.1 |
| FE-Penelec | VFD on HVAC Fan | Motor w/out VFD | Restaurant | Motors | ROB | motor | 14,867 | 72% | 3.3 | 15 | \$2,843 | 86% | 3.1 |
| FE-Penelec | Elevators | Std. Eff Elevator | Restaurant | Other | ROB | measure | 89,016 | 4.7% | 0.2 | 15 | \$443 | 81% | 5.2 |
| FE-Penelec | Variable Speed Drives on Process Equipment | Constant speed control | Restaurant | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 10.6 |
| FE-Penelec | Variable Speed Drives on Process Equipment | Constant speed control | Restaurant | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 10.6 |
| FE-Penelec | Auto Off Time Switch | Lighting w/ No Controls | Restaurant | Other Int. Lighting | Existing | building | 3,132 | 24% | 0.2 | 8 | \$181 | 13% | 2.1 |
| FE-Penelec | Auto Off Time Switch | Lighting w/ No Controls | Restaurant | Other Int. Lighting | New | building | 3,132 | 7.0% | 0.07 | 8 | \$181 | 0% | 0.6 |
| FE-Penelec | Central Lighting Control System | Lighting w/ No Controls | Restaurant | Other Int. Lighting | Existing | building | 3,132 | 38% | 0.4 | 8 | \$181 | 13% | 3.3 |
| FE-Penelec | Central Lighting Control System | Lighting w/ No Controls | Restaurant | Other Int. Lighting | New | building | 3,132 | 14% | 0.1 | 8 | \$181 | 13% | 1.2 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 40W Incandescent Bulb | Restaurant | Other Int. Lighting | Early | lamp | 253 | 87% | 0.05 | 5 | \$30 | 14% | 2.2 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Restaurant | Other Int. Lighting | Early | lamp | 181 | 81% | 0.03 | 5 | \$30 | 11% | 1.5 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Restaurant | Other Int. Lighting | New | lamp | 138 | 81% | 0.02 | 5 | \$21 | 14% | 1.5 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Restaurant | Other Int. Lighting | New | lamp | 138 | 81% | 0.02 | 5 | \$23 | 14% | 1.4 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Restaurant | Other Int. Lighting | New | lamp | 138 | 81% | 0.02 | 5 | \$22 | 11% | 1.5 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Restaurant | Other Int. Lighting | ROB | lamp | 181 | 81% | 0.03 | 5 | \$21 | 14% | 2.0 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Restaurant | Other Int. Lighting | ROB | lamp | 181 | 81% | 0.03 | 5 | \$23 | 14% | 1.9 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Restaurant | Other Int. Lighting | ROB | lamp | 181 | 81% | 0.03 | 5 | \$22 | 11% | 2.0 |
| FE-Penelec | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Restaurant | Other Int. Lighting | Early | lamp | 253 | 75% | 0.04 | 2 | \$73 | 39% | 0.3 |
| FE-Penelec | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Restaurant | Other Int. Lighting | New | fixture | 275 | 65% | 0.04 | 13 | \$29 | 46% | 4.0 |
| FE-Penelec | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Restaurant | Other Int. Lighting | New | lamp | 138 | 65% | 0.02 | 2 | \$29 | 46% | 0.4 |
| FE-Penelec | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Restaurant | Other Int. Lighting | ROB | fixture | 362 | 65% | 0.05 | 13 | \$29 | 39% | 5.3 |
| FE-Penelec | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Restaurant | Other Int. Lighting | ROB | lamp | 181 | 65% | 0.03 | 2 | \$29 | 39% | 0.5 |
| FE-Penelec | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Restaurant | Other Int. Lighting | Early | lamp | 253 | 75% | 0.04 | 2 | \$3.2 | 24% | 7.6 |
| FE-Penelec | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Restaurant | Other Int. Lighting | New | lamp | 138 | 65% | 0.02 | 2 | \$1.8 | 24% | 6.5 |
| FE-Penelec | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Restaurant | Other Int. Lighting | ROB | lamp | 181 | 65% | 0.03 | 2 | \$1.8 | 24% | 8.5 |
| FE-Penelec | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Restaurant | Other Int. Lighting | ROB | lamp | 181 | 65% | 0.03 | 2 | \$1.8 | 24% | 8.5 |
| FE-Penelec | Exit Sign Retrofit: CFL replacing Incandescent | One 23W Single Sided Incandescent Exit Sign | Restaurant | Other Int. Lighting | Early | exit sign | 121 | 42% | 0.01 | 15 | \$48 | 22% | 0.7 |
| FE-Penelec | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Restaurant | Other Int. Lighting | New | building | 3,132 | 10% | 0.1 | 15 | \$46,260 | 32% | 0.0 |
| FE-Penelec | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Restaurant | Other Int. Lighting | New | building | 3,132 | 15% | 0.2 | 15 | \$115,651 | 32% | 0.0 |
| FE-Penelec | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Restaurant | Other Int. Lighting | New | building | 3,132 | 30% | 0.3 | 15 | \$165,766 | 32% | 0.0 |
| FE-Penelec | Indoor Daylight Sensors | Lighting w/ No Controls | Restaurant | Other Int. Lighting | Existing | building | 3,132 | 28% | 0.3 | 8 | \$891 | 13% | 0.5 |
| FE-Penelec | Indoor Daylight Sensors | Lighting w/ No Controls | Restaurant | Other Int. Lighting | New | building | 3,132 | 4.1% | 0.04 | 8 | \$891 | 0% | 0.1 |
| FE-Penelec | LED Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Restaurant | Other Int. Lighting | Early | sign | 153 | 87% | 0.02 | 15 | \$48 | 16% | 1.8 |
| FE-Penelec | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Restaurant | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 2.0 |
| FE-Penelec | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Restaurant | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 2.0 |
| FE-Penelec | LED Task Lighting/Screw-In | 1 15W CFL bulb | Restaurant | Other Int. Lighting | Early | lamp | 41 | 33% | 0.00 | 8 | \$9.6 | 24% | 0.6 |
| FE-Penelec | LED Task Lighting/Screw-In | 1 60W Incandescent Bulb | Restaurant | Other Int. Lighting | Early | lamp | 163 | 83% | 0.03 | 8 | \$9.6 | 24% | 6.4 |
| FE-Penelec | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Restaurant | Other Int. Lighting | New | lamp | 89 | 77% | 0.02 | 8 | \$7.9 | 24% | 3.9 |
| FE-Penelec | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Restaurant | Other Int. Lighting | New | lamp | 89 | 77% | 0.02 | 8 | \$7.9 | 24% | 3.9 |
| FE-Penelec | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Restaurant | Other Int. Lighting | ROB | lamp | 116 | 77% | 0.02 | 8 | \$7.9 | 24% | 5.1 |
| FE-Penelec | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Restaurant | Other Int. Lighting | ROB | lamp | 116 | 77% | 0.02 | 8 | \$7.9 | 24% | 5.1 |
| FE-Penelec | Occupancy Sensor | Lighting w/ No Controls | Restaurant | Other Int. Lighting | Existing | building | 3,132 | 24% | 0.2 | 8 | \$273 | 12% | 1.4 |
| FE-Penelec | Occupancy Sensor | Lighting w/ No Controls | Restaurant | Other Int. Lighting | New | building | 3,132 | 7.0% | 0.07 | 8 | \$273 | 0% | 0.4 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|--|---|------------|---------------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Restaurant | Other Int. Lighting | Existing | building | 3,132 | 28% | 0.3 | 8 | \$891 | 12% | 0.5 |
| FE-Penelec | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Restaurant | Other Int. Lighting | New | building | 3,132 | 4.1% | 0.04 | 8 | \$891 | 0% | 0.1 |
| FE-Penelec | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Restaurant | Other Int. Lighting | Early | exit sign | 121 | 100% | 0.02 | 15 | \$173 | 26% | 0.5 |
| FE-Penelec | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Restaurant | Other Int. Lighting | New | exit sign | 70 | 100% | 0.01 | 15 | \$148 | 31% | 0.3 |
| FE-Penelec | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Restaurant | Other Int. Lighting | ROB | exit sign | 70 | 100% | 0.01 | 15 | \$148 | 26% | 0.3 |
| FE-Penelec | Time Clock Control | Lighting w/ No Controls | Restaurant | Other Int. Lighting | Existing | building | 3,132 | 28% | 0.3 | 8 | \$181 | 13% | 2.4 |
| FE-Penelec | Time Clock Control | Lighting w/ No Controls | Restaurant | Other Int. Lighting | New | building | 3,132 | 4.1% | 0.04 | 8 | \$181 | 0% | 0.4 |
| FE-Penelec | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Restaurant | Plug Load | Existing | building | 454 | 46% | 0.5 | 5 | \$189 | 4% | 1.2 |
| FE-Penelec | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Restaurant | Plug Load | New | building | 454 | 46% | 0.5 | 5 | \$189 | 4% | 1.2 |
| FE-Penelec | Data Center - Server/Storage Consolidation | No Consolidation | Restaurant | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penelec | Data Center - Server/Storage Consolidation | No Consolidation | Restaurant | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penelec | Data Center - Server/Storage Virtualization | No Virtualization | Restaurant | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penelec | Data Center - Server/Storage Virtualization | No Virtualization | Restaurant | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penelec | Energy Star - Scanners | Std Scanner | Restaurant | Plug Load | New | measure | 68 | 3.8% | 0.04 | 4 | \$130 | 7% | 0.1 |
| FE-Penelec | Energy Star - Scanners | Std Scanner | Restaurant | Plug Load | ROB | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| FE-Penelec | Energy Star Dishwasher | Existing Dishwasher units | Restaurant | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,550 | 23% | 1.0 |
| FE-Penelec | Energy Star Dishwasher | Standard Dishwasher unit | Restaurant | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,003 | 23% | 3.5 |
| FE-Penelec | Energy Star Dishwasher | Standard Dishwasher unit | Restaurant | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,003 | 23% | 3.5 |
| FE-Penelec | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Restaurant | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 17% | 0.2 |
| FE-Penelec | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Restaurant | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.0 |
| FE-Penelec | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Restaurant | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.0 |
| FE-Penelec | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Restaurant | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 9% | 0.8 |
| FE-Penelec | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Restaurant | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.7 |
| FE-Penelec | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Restaurant | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.7 |
| FE-Penelec | ENERGY STAR® Copiers | 10% Less Efficient Copier | Restaurant | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 18% | 0.0 |
| FE-Penelec | ENERGY STAR® Copiers | One Conventional Copier | Restaurant | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| FE-Penelec | ENERGY STAR® Copiers | One Conventional Copier | Restaurant | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| FE-Penelec | ENERGY STAR® desktop | Standard computer | Restaurant | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 69% | 0.1 |
| FE-Penelec | ENERGY STAR® desktop | Standard computer | Restaurant | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.3 |
| FE-Penelec | ENERGY STAR® desktop | Standard computer | Restaurant | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.3 |
| FE-Penelec | ENERGY STAR® Fax | 10% Less Efficient Fax | Restaurant | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 15% | 0.0 |
| FE-Penelec | ENERGY STAR® Fax | One Conventional Fax | Restaurant | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| FE-Penelec | ENERGY STAR® Fax | One Conventional Fax | Restaurant | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| FE-Penelec | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Restaurant | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 70% | 0.0 |
| FE-Penelec | ENERGY STAR® Monitors | One Conventional Monitor | Restaurant | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| FE-Penelec | ENERGY STAR® Monitors | One Conventional Monitor | Restaurant | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| FE-Penelec | ENERGY STAR® Printers | 10% Less Efficient Printer | Restaurant | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 44% | 0.0 |
| FE-Penelec | ENERGY STAR® Printers | One Conventional Printer | Restaurant | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| FE-Penelec | ENERGY STAR® Printers | One Conventional Printer | Restaurant | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| FE-Penelec | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Restaurant | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 43% | 0.1 |
| FE-Penelec | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Restaurant | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.7 |
| FE-Penelec | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Restaurant | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.7 |
| FE-Penelec | ENERGY STAR® Televisions | 10% Less Efficient Television | Restaurant | Plug Load | Early | Unit | 371 | 38% | 0.02 | 6 | \$672 | 40% | 0.1 |
| FE-Penelec | ENERGY STAR® Televisions | One Conventional Television | Restaurant | Plug Load | New | Unit | 337 | 32% | 0.02 | 6 | \$206 | 40% | 0.2 |
| FE-Penelec | ENERGY STAR® Televisions | One Conventional Television | Restaurant | Plug Load | ROB | Unit | 337 | 32% | 0.02 | 6 | \$206 | 40% | 0.2 |
| FE-Penelec | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Restaurant | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 24% | 0.3 |
| FE-Penelec | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Restaurant | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.6 |
| FE-Penelec | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Restaurant | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.6 |
| FE-Penelec | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Restaurant | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 51% | 0.3 |
| FE-Penelec | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Restaurant | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 51% | 0.3 |
| FE-Penelec | Network PC Power Management | No PC Power Management | Restaurant | Plug Load | Existing | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 5.6 |
| FE-Penelec | Network PC Power Management | No PC Power Management | Restaurant | Plug Load | New | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 5.6 |
| FE-Penelec | Smart Strip Plug Outlets | Standard plug strip/outlet | Restaurant | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.4 |
| FE-Penelec | Smart Strip Plug Outlets | Standard plug strip/outlet | Restaurant | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.4 |
| FE-Penelec | Smart Strip Plug Outlets | Standard plug strip/outlet | Restaurant | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Penelec | Smart Strip Plug Outlets | Standard plug strip/outlet | Restaurant | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Penelec | Smart Strip Plug Outlets | Standard plug strip/outlet | Restaurant | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Penelec | Smart Strip Plug Outlets | Standard plug strip/outlet | Restaurant | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Penelec | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Restaurant | Plug Load | Existing | building | 454 | 46% | 0.5 | 5 | \$180 | 3% | 1.3 |
| FE-Penelec | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Restaurant | Plug Load | New | building | 454 | 46% | 0.5 | 5 | \$180 | 3% | 1.3 |
| FE-Penelec | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Restaurant | Refrigeration | Existing | building | 3,067 | 6.1% | 0.06 | 12 | \$70 | 11% | 1.8 |
| FE-Penelec | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Restaurant | Refrigeration | New | building | 3,067 | 6.1% | 0.06 | 12 | \$70 | 11% | 1.8 |
| FE-Penelec | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Restaurant | Refrigeration | Existing | building | 3,067 | 0.9% | 0.01 | 12 | \$70 | 11% | 0.3 |
| FE-Penelec | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Restaurant | Refrigeration | New | building | 3,067 | 0.9% | 0.01 | 12 | \$70 | 11% | 0.3 |
| FE-Penelec | Auto Closer on Refrigerator Door | Door w/out Autocloser | Restaurant | Refrigeration | Existing | building | 8,861 | 8.2% | 0.08 | 8 | \$770 | 40% | 0.3 |
| FE-Penelec | Auto Closer on Refrigerator Door | Door w/out Autocloser | Restaurant | Refrigeration | Existing | building | 21,131 | 4.5% | 0.05 | 8 | \$766 | 40% | 0.4 |
| FE-Penelec | Auto Closer on Refrigerator Door | Door w/out Autocloser | Restaurant | Refrigeration | New | building | 8,861 | 8.2% | 0.08 | 8 | \$770 | 40% | 0.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|--|------------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Auto Closer on Refrigerator Door | Door w/out Autocloser | Restaurant | Refrigeration | New | building | 21,131 | 4.5% | 0.05 | 8 | \$766 | 40% | 0.4 |
| FE-Penelec | Demand Hot Gas Defrost | Base Refrigeration System | Restaurant | Refrigeration | Existing | measure | 3,067 | 3.0% | 0.03 | 10 | \$1,379 | 0% | 0.0 |
| FE-Penelec | Demand Hot Gas Defrost | Base Refrigeration System | Restaurant | Refrigeration | New | measure | 3,067 | 3.0% | 0.03 | 10 | \$1,379 | 0% | 0.0 |
| FE-Penelec | Door Gasket- Freezer | Door w/out Gasket | Restaurant | Refrigeration | Existing | building | 8,861 | 4.4% | 0.04 | 4 | \$79 | 29% | 1.0 |
| FE-Penelec | Door Gasket- Freezer | Door w/out Gasket | Restaurant | Refrigeration | New | building | 8,861 | 5.5% | 0.06 | 4 | \$79 | 29% | 1.2 |
| FE-Penelec | Door Gasket- Refrigerator | Door w/out Gasket | Restaurant | Refrigeration | Existing | building | 21,131 | 1.7% | 0.02 | 4 | \$106 | 45% | 0.6 |
| FE-Penelec | Door Gasket- Refrigerator | Door w/out Gasket | Restaurant | Refrigeration | New | building | 21,131 | 1.7% | 0.02 | 4 | \$106 | 45% | 0.6 |
| FE-Penelec | eCube | Refrigeration unit w/out eCube | Restaurant | Refrigeration | Existing | building | 21,131 | 15% | 0.2 | 15 | \$1,946 | 57% | 0.9 |
| FE-Penelec | eCube | Refrigeration unit w/out eCube | Restaurant | Refrigeration | New | building | 21,131 | 15% | 0.2 | 15 | \$1,946 | 57% | 0.9 |
| FE-Penelec | Efficient compressor motor | Base Refrigeration System - Grocery | Restaurant | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.6 |
| FE-Penelec | Efficient compressor motor | Base Refrigeration System - Grocery | Restaurant | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.6 |
| FE-Penelec | Efficient compressor motor | Base Refrigeration System - Grocery | Restaurant | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.6 |
| FE-Penelec | Efficient compressor motor | Base Refrigeration System - Grocery | Restaurant | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.6 |
| FE-Penelec | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Restaurant | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.5 |
| FE-Penelec | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Restaurant | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| FE-Penelec | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Restaurant | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| FE-Penelec | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Restaurant | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.3 |
| FE-Penelec | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Restaurant | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.7 |
| FE-Penelec | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Restaurant | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.7 |
| FE-Penelec | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Restaurant | Refrigeration | Existing | building | 21,131 | 1.5% | 0.02 | 10 | \$369 | 77% | 0.3 |
| FE-Penelec | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Restaurant | Refrigeration | New | building | 21,131 | 1.5% | 0.02 | 10 | \$369 | 77% | 0.3 |
| FE-Penelec | Floating head pressure controller | System w/out FHPC | Restaurant | Refrigeration | Existing | building | 8,861 | 2.6% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penelec | Floating head pressure controller | System w/out FHPC | Restaurant | Refrigeration | Existing | building | 3,067 | 3.2% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penelec | Floating head pressure controller | System w/out FHPC | Restaurant | Refrigeration | Existing | building | 21,131 | 0.4% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penelec | Floating head pressure controller | System w/out FHPC | Restaurant | Refrigeration | New | building | 8,861 | 2.6% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penelec | Floating head pressure controller | System w/out FHPC | Restaurant | Refrigeration | New | building | 21,131 | 0.4% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penelec | Floating head pressure controller | System w/out FHPC | Restaurant | Refrigeration | New | building | 3,067 | 3.2% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penelec | High Efficiency Commercial Freezer | Std. Commercial Freezer | Restaurant | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 79% | 0.3 |
| FE-Penelec | High Efficiency Commercial Freezer | Std. Commercial Freezer | Restaurant | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 79% | 3.8 |
| FE-Penelec | High Efficiency Commercial Freezer | Std. Commercial Freezer | Restaurant | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 79% | 3.8 |
| FE-Penelec | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Restaurant | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 79% | 0.1 |
| FE-Penelec | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Restaurant | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 79% | 0.8 |
| FE-Penelec | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Restaurant | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 79% | 0.8 |
| FE-Penelec | High Efficiency Ice Maker | Existing Standard Efficiency Ice Maker in Pennsylvania | Restaurant | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 69% | 0.1 |
| FE-Penelec | High Efficiency Ice Maker | Standard code minimum Ice Maker | Restaurant | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| FE-Penelec | High Efficiency Ice Maker | Standard code minimum Ice Maker | Restaurant | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 69% | 0.2 |
| FE-Penelec | High Efficiency Ice Making Head | Standard Ice Making Head | Restaurant | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.7 |
| FE-Penelec | High Efficiency Ice Making Head | Standard Ice Making Head | Restaurant | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.7 |
| FE-Penelec | High R-Value Glass Doors | Base Refrigeration System - Grocery | Restaurant | Refrigeration | Existing | building | 3,067 | 0.7% | 0.01 | 10 | \$53 | 0% | 0.2 |
| FE-Penelec | High R-Value Glass Doors | Base Refrigeration System - Grocery | Restaurant | Refrigeration | New | building | 3,067 | 0.7% | 0.01 | 10 | \$53 | 0% | 0.2 |
| FE-Penelec | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Restaurant | Refrigeration | Early | Fixture | 373 | 56% | 0.03 | 8 | \$448 | 89% | 0.2 |
| FE-Penelec | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Restaurant | Refrigeration | New | Fixture | 291 | 44% | 0.02 | 8 | \$139 | 89% | 0.3 |
| FE-Penelec | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Restaurant | Refrigeration | ROB | Fixture | 291 | 44% | 0.02 | 8 | \$139 | 89% | 0.3 |
| FE-Penelec | No-heat glass doors | Standard low-temp reach-in | Restaurant | Refrigeration | Existing | building | 3,067 | 20% | 0.2 | 10 | \$4,826 | 8% | 0.1 |
| FE-Penelec | No-heat glass doors | Standard low-temp reach-in | Restaurant | Refrigeration | New | building | 3,067 | 20% | 0.2 | 10 | \$4,826 | 8% | 0.1 |
| FE-Penelec | Quick acting freezer doors | Std. Freezer Doors | Restaurant | Refrigeration | Existing | building | 8,861 | 13% | 0.1 | 10 | \$2,734 | 56% | 0.2 |
| FE-Penelec | Quick acting freezer doors | Std. Freezer Doors | Restaurant | Refrigeration | New | building | 8,861 | 13% | 0.1 | 10 | \$2,734 | 56% | 0.2 |
| FE-Penelec | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Restaurant | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 29% | 0.4 |
| FE-Penelec | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Restaurant | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 29% | 1.5 |
| FE-Penelec | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Restaurant | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 29% | 1.5 |
| FE-Penelec | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 29% | 1.6 |
| FE-Penelec | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 29% | 2.8 |
| FE-Penelec | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 29% | 2.8 |
| FE-Penelec | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 29% | 1.6 |
| FE-Penelec | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 29% | 3.8 |
| FE-Penelec | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 29% | 3.8 |
| FE-Penelec | Refrigeration Commissioning | Non-commissioned refrigeration system | Restaurant | Refrigeration | Existing | building | 34,082 | 9.5% | 0.10 | 3 | \$4,759 | 85% | 0.1 |
| FE-Penelec | Refrigeration Commissioning | Non-commissioned refrigeration system | Restaurant | Refrigeration | New | building | 34,082 | 9.5% | 0.10 | 3 | \$4,759 | 85% | 0.1 |
| FE-Penelec | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Restaurant | Refrigeration | Existing | building | 8,861 | 11% | 0.1 | 4 | \$96 | 22% | 1.9 |
| FE-Penelec | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Restaurant | Refrigeration | Existing | building | 21,131 | 2.0% | 0.02 | 4 | \$128 | 22% | 0.6 |
| FE-Penelec | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Restaurant | Refrigeration | New | building | 8,861 | 11% | 0.1 | 4 | \$96 | 22% | 1.9 |
| FE-Penelec | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Restaurant | Refrigeration | New | building | 21,131 | 2.0% | 0.02 | 4 | \$128 | 22% | 0.6 |
| FE-Penelec | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Restaurant | Refrigeration | Existing | building | 8,861 | 2.2% | 0.02 | 11 | \$148 | 77% | 0.6 |
| FE-Penelec | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Restaurant | Refrigeration | New | building | 8,861 | 2.2% | 0.02 | 11 | \$148 | 77% | 0.6 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|---|------------|-----------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Restaurant | Refrigeration | Existing | building | 21,131 | 1.6% | 0.02 | 11 | \$148 | 77% | 0.9 |
| FE-Penelec | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Restaurant | Refrigeration | New | building | 21,131 | 1.6% | 0.02 | 11 | \$148 | 77% | 0.9 |
| FE-Penelec | Vertical Night Covers | Display cases w/out night covers-High Temperature | Restaurant | Refrigeration | Existing | building | 3,067 | 0.1% | 0.00 | 5 | \$38 | 9% | 0.0 |
| FE-Penelec | Vertical Night Covers | Display cases w/out night covers-High Temperature | Restaurant | Refrigeration | New | building | 3,067 | 0.1% | 0.00 | 5 | \$38 | 9% | 0.0 |
| FE-Penelec | VSD Controlled Compressor | Compressor w/out VSD | Restaurant | Refrigeration | Early | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 73% | 0.1 |
| FE-Penelec | VSD Controlled Compressor | Compressor w/out VSD | Restaurant | Refrigeration | New | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 73% | 0.1 |
| FE-Penelec | VSD Controlled Compressor | Compressor w/out VSD | Restaurant | Refrigeration | ROB | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 73% | 0.1 |
| FE-Penelec | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Restaurant | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$269 | 35% | 0.9 |
| FE-Penelec | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Restaurant | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$269 | 35% | 0.8 |
| FE-Penelec | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Restaurant | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.0 |
| FE-Penelec | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Restaurant | Refrigeration | New | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 2.9 |
| FE-Penelec | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Restaurant | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.0 |
| FE-Penelec | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Restaurant | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 2.9 |
| FE-Penelec | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 35% | 2.3 |
| FE-Penelec | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 35% | 2.2 |
| FE-Penelec | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 4.9 |
| FE-Penelec | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.6 |
| FE-Penelec | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 4.9 |
| FE-Penelec | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.6 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Restaurant | Space Heating | Existing | building | 240 | 7.1% | 0.07 | 6 | \$19,828 | 82% | 0.0 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Restaurant | Space Heating | New | building | 240 | 7.1% | 0.07 | 6 | \$19,828 | 82% | 0.0 |
| FE-Penelec | Adding window shade film | No shade film | Restaurant | Space Heating | Existing | building | 240 | 1.3% | 0.4 | 10 | \$2.9 | 13% | 89.6 |
| FE-Penelec | Adding window shade film | No shade film | Restaurant | Space Heating | New | building | 240 | 1.3% | 0.4 | 10 | \$2.9 | 13% | 89.6 |
| FE-Penelec | Adding window shade screen | No shade screen | Restaurant | Space Heating | Existing | building | 240 | 1.1% | 0.01 | 10 | \$1.1 | 13% | 7.0 |
| FE-Penelec | Adding window shade screen | No shade screen | Restaurant | Space Heating | New | building | 240 | 1.1% | 0.01 | 10 | \$1.1 | 13% | 7.0 |
| FE-Penelec | Automated control system | Manual Controls | Restaurant | Space Heating | Existing | building | 240 | 17% | 0.2 | 15 | \$263 | 51% | 0.7 |
| FE-Penelec | Automated control system | Manual Controls | Restaurant | Space Heating | New | building | 240 | 17% | 0.2 | 15 | \$263 | 94% | 0.7 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Restaurant | Space Heating | Existing | building | 240 | 8.9% | 0.09 | 15 | \$26,661 | 71% | 0.0 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Restaurant | Space Heating | New | building | 240 | 3.0% | 0.03 | 15 | \$25,342 | 94% | 0.0 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Restaurant | Space Heating | Existing | building | 240 | 1.4% | 0.04 | 15 | \$1.9 | 20% | 20.4 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Restaurant | Space Heating | New | building | 240 | 1.4% | 0.04 | 15 | \$1.9 | 10% | 20.4 |
| FE-Penelec | Efficient Unit Heating System | Existing Unit Heaters in PA | Restaurant | Space Heating | Early | heater | 38,010 | 23% | 0.06 | 15 | \$3,289 | 83% | 1.3 |
| FE-Penelec | Efficient Unit Heating System | Std. Unit Heater | Restaurant | Space Heating | New | heater | 33,734 | 13% | 0.03 | 15 | \$1,991 | 83% | 1.1 |
| FE-Penelec | Efficient Unit Heating System | Std. Unit Heater | Restaurant | Space Heating | ROB | heater | 33,734 | 13% | 0.03 | 15 | \$1,991 | 83% | 1.1 |
| FE-Penelec | Facility Commissioning | No Facility Commissioning | Restaurant | Space Heating | New | building | 240 | 16% | 0.2 | 10 | \$8,002 | 89% | 0.0 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Restaurant | Space Heating | Existing | building | 240 | 7.1% | 0.07 | 15 | \$1,065 | 25% | 0.1 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Restaurant | Space Heating | New | building | 240 | 7.1% | 0.07 | 15 | \$1,065 | 35% | 0.1 |
| FE-Penelec | Hi Eff HVAC System Design | No HVAC Design | Restaurant | Space Heating | New | building | 240 | 12% | 0.1 | 10 | \$113,086 | 51% | 0.0 |
| FE-Penelec | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Restaurant | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$76 | 80% | 1.0 |
| FE-Penelec | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Restaurant | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$76 | 80% | 1.0 |
| FE-Penelec | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Restaurant | Space Heating | Existing | building | 240 | 3.5% | 0.04 | 10 | \$7,735 | 81% | 0.0 |
| FE-Penelec | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Restaurant | Space Heating | New | building | 240 | 3.5% | 0.04 | 10 | \$7,735 | 81% | 0.0 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Restaurant | Space Heating | Existing | building | 240 | 3.6% | 0.04 | 11 | \$286 | 49% | 0.1 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Restaurant | Space Heating | New | building | 240 | 3.1% | 0.03 | 11 | \$146 | 49% | 0.2 |
| FE-Penelec | Re-Commissioning (Existing Construction) | No Re-Commissioning | Restaurant | Space Heating | Existing | building | 240 | 16% | 0.2 | 5 | \$12,732 | 86% | 0.0 |
| FE-Penelec | VFD on Cooling Tower Fan | Motor w/out VFD | Restaurant | Space Heating | Early | motor | 15,151 | 70% | 3.4 | 15 | \$2,843 | 88% | 2.9 |
| FE-Penelec | VFD on Cooling Tower Fan | Motor w/out VFD | Restaurant | Space Heating | New | motor | 14,867 | 72% | 3.3 | 15 | \$2,843 | 88% | 2.9 |
| FE-Penelec | VFD on Cooling Tower Fan | Motor w/out VFD | Restaurant | Space Heating | ROB | motor | 14,867 | 72% | 3.3 | 15 | \$2,843 | 88% | 2.9 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Restaurant | Space Heating | Existing | building | 240 | 12% | 0.1 | 15 | \$6,404 | 26% | 0.0 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Restaurant | Space Heating | New | building | 240 | 0.5% | 0.01 | 15 | \$4,912 | 94% | 0.0 |
| FE-Penelec | Green LED Traffic Light | Green Incandescent Traffic Light | Restaurant | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 0% | 1.2 |
| FE-Penelec | Green LED Traffic Light | Green Incandescent Traffic Light | Restaurant | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| FE-Penelec | Green LED Traffic Light | Green Incandescent Traffic Light | Restaurant | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| FE-Penelec | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Restaurant | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 0% | 3.0 |
| FE-Penelec | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Restaurant | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-Penelec | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Restaurant | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-Penelec | Induction Street Lighting | One 100W HPS Street Light Fixture | Restaurant | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 0% | 0.3 |
| FE-Penelec | Induction Street Lighting | One 100W HPS Street Light Fixture | Restaurant | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.7 |
| FE-Penelec | Induction Street Lighting | One 100W HPS Street Light Fixture | Restaurant | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.7 |
| FE-Penelec | LED Street Lighting | One 100W HPS Street Light | Restaurant | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 0% | 0.2 |
| FE-Penelec | LED Street Lighting | One 100W HPS Street Light | Restaurant | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-Penelec | LED Street Lighting | One 100W HPS Street Light | Restaurant | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-Penelec | Red LED Traffic Light | One Red Incandescent Traffic Light | Restaurant | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 0% | 1.6 |
| FE-Penelec | Red LED Traffic Light | One Red Incandescent Traffic Light | Restaurant | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| FE-Penelec | Red LED Traffic Light | One Red Incandescent Traffic Light | Restaurant | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|--|---|------------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Restaurant | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 0% | 0.1 |
| FE-Penelec | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Restaurant | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-Penelec | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Restaurant | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-Penelec | Demand controlled Circulating Systems | Constant circulation system | Restaurant | Water Heating | Existing | building | 1,242 | 20% | 0.2 | 15 | \$225 | 59% | 1.4 |
| FE-Penelec | Demand controlled Circulating Systems | Constant circulation system | Restaurant | Water Heating | New | building | 1,242 | 20% | 0.2 | 15 | \$225 | 59% | 1.4 |
| FE-Penelec | Drainwater Heat Recovery Water Heater | No heat recovery | Restaurant | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.9 |
| FE-Penelec | Drainwater Heat Recovery Water Heater | No heat recovery | Restaurant | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.9 |
| FE-Penelec | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Restaurant | Water Heating | Existing | building | 1,242 | 5.9% | 0.06 | 12 | \$14 | 85% | 5.6 |
| FE-Penelec | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Restaurant | Water Heating | New | building | 1,242 | 5.9% | 0.06 | 12 | \$4.0 | 85% | 19.7 |
| FE-Penelec | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Restaurant | Water Heating | Early | water heater | 179,161 | 66% | 21.0 | 10 | \$7,124 | 68% | 8.2 |
| FE-Penelec | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Restaurant | Water Heating | Early | water heater | 179,161 | 66% | 21.0 | 10 | \$7,124 | 68% | 8.2 |
| FE-Penelec | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Restaurant | Water Heating | New | water heater | 179,161 | 66% | 21.0 | 10 | \$7,124 | 68% | 8.2 |
| FE-Penelec | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Restaurant | Water Heating | New | water heater | 179,161 | 66% | 21.0 | 10 | \$7,124 | 68% | 8.2 |
| FE-Penelec | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Restaurant | Water Heating | ROB | water heater | 174,184 | 65% | 20.1 | 10 | \$7,124 | 68% | 7.8 |
| FE-Penelec | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Restaurant | Water Heating | ROB | water heater | 174,184 | 65% | 20.1 | 10 | \$7,124 | 68% | 7.8 |
| FE-Penelec | Heat Recovery Unit | Base Water Heating | Restaurant | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.6 |
| FE-Penelec | Heat Recovery Unit | Base Water Heating | Restaurant | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.6 |
| FE-Penelec | Heat Trap | No Heat Trap | Restaurant | Water Heating | Existing | building | 1,242 | 1.0% | 0.01 | 11 | \$0.2 | 50% | 52.8 |
| FE-Penelec | Heat Trap | No Heat Trap | Restaurant | Water Heating | New | building | 1,242 | 1.0% | 0.01 | 11 | \$0.1 | 50% | 137.8 |
| FE-Penelec | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Restaurant | Water Heating | Early | water heater | 179,161 | 5.9% | 1.9 | 15 | \$1,842 | 79% | 4.0 |
| FE-Penelec | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Restaurant | Water Heating | Early | water heater | 179,161 | 5.9% | 1.9 | 15 | \$1,842 | 79% | 4.0 |
| FE-Penelec | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Restaurant | Water Heating | New | water heater | 174,184 | 3.2% | 1.0 | 15 | \$1,842 | 79% | 2.1 |
| FE-Penelec | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Restaurant | Water Heating | New | water heater | 174,184 | 3.2% | 1.0 | 15 | \$1,842 | 79% | 2.1 |
| FE-Penelec | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Restaurant | Water Heating | ROB | water heater | 174,184 | 3.2% | 1.0 | 15 | \$1,842 | 79% | 2.1 |
| FE-Penelec | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Restaurant | Water Heating | ROB | water heater | 174,184 | 3.2% | 1.0 | 15 | \$1,842 | 79% | 2.1 |
| FE-Penelec | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Restaurant | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$466 | 81% | 39.2 |
| FE-Penelec | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Restaurant | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 20.4 |
| FE-Penelec | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Restaurant | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 20.4 |
| FE-Penelec | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Restaurant | Water Heating | Existing | building | 1,242 | 3.0% | 0.03 | 13 | \$5.5 | 68% | 7.8 |
| FE-Penelec | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Restaurant | Water Heating | New | building | 1,242 | 3.0% | 0.03 | 13 | \$5.5 | 0% | 7.8 |
| FE-Penelec | Hot Water Circulation Pump Time-Clock | Constant circulation system | Restaurant | Water Heating | Existing | building | 1,242 | 5.3% | 0.05 | 10 | \$5.0 | 72% | 12.3 |
| FE-Penelec | Hot Water Circulation Pump Time-Clock | Constant circulation system | Restaurant | Water Heating | New | building | 1,242 | 5.3% | 0.05 | 10 | \$5.0 | 72% | 12.3 |
| FE-Penelec | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Restaurant | Water Heating | Existing | building | 1,142 | 0.1% | 0.00 | 7 | \$22 | 78% | 0.0 |
| FE-Penelec | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Restaurant | Water Heating | New | building | 1,142 | 6.6% | 0.07 | 7 | \$0.5 | 78% | 112.4 |
| FE-Penelec | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Restaurant | Water Heating | Existing | building | 1,242 | 13% | 0.1 | 5 | \$300 | 80% | 0.3 |
| FE-Penelec | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Restaurant | Water Heating | New | building | 1,242 | 13% | 0.1 | 5 | \$194 | 80% | 0.4 |
| FE-Penelec | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Restaurant | Water Heating | Existing | building | 1,242 | 6.5% | 0.07 | 9 | \$25 | 2% | 2.8 |
| FE-Penelec | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Restaurant | Water Heating | New | building | 1,242 | 6.5% | 0.07 | 9 | \$6.0 | 2% | 11.6 |
| FE-Penelec | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Restaurant | Water Heating | Early | water heater | 179,161 | 52% | 7.6 | 15 | \$37,332 | 32% | 1.5 |
| FE-Penelec | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Restaurant | Water Heating | New | water heater | 174,184 | 51% | 7.2 | 15 | \$37,332 | 32% | 1.4 |
| FE-Penelec | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Restaurant | Water Heating | ROB | water heater | 174,184 | 51% | 7.2 | 15 | \$37,332 | 32% | 1.4 |
| FE-Penelec | Ultrasonic Faucet Control | Manual Faucet Control | Restaurant | Water Heating | Existing | building | 1,242 | 3.0% | 0.03 | 10 | \$215 | 77% | 0.2 |
| FE-Penelec | Ultrasonic Faucet Control | Manual Faucet Control | Restaurant | Water Heating | New | building | 1,242 | 3.0% | 0.03 | 10 | \$215 | 77% | 0.2 |
| FE-Penelec | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Restaurant | Water Heating | Existing | building | 1,242 | 2.2% | 0.02 | 4 | \$28 | 83% | 0.4 |
| FE-Penelec | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Restaurant | Water Heating | New | building | 1,242 | 2.3% | 0.02 | 4 | \$28 | 83% | 0.5 |
| FE-Penelec | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Retail | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.1 |
| FE-Penelec | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Retail | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.1 |
| FE-Penelec | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Retail | Cooking | Early | steamer | 51 | 46% | 0.00 | 12 | \$5,053 | 81% | 0.0 |
| FE-Penelec | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Retail | Cooking | New | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-Penelec | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Retail | Cooking | ROB | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-Penelec | Electric combination oven (Energy Star) | Standard Oven | Retail | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.9 |
| FE-Penelec | Electric combination oven (Energy Star) | Standard Oven | Retail | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.9 |
| FE-Penelec | Electric Convection Oven | Conventional convection oven w/ 65% efficiency | Retail | Cooking | Early | oven | 8,641 | 37% | 0.6 | 12 | \$4,119 | 81% | 0.4 |
| FE-Penelec | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Retail | Cooking | New | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.7 |
| FE-Penelec | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Retail | Cooking | ROB | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.7 |
| FE-Penelec | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Retail | Cooking | Early | fryer | 6,105 | 23% | 0.3 | 12 | \$9,241 | 86% | 0.1 |
| FE-Penelec | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Retail | Cooking | New | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| FE-Penelec | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Retail | Cooking | ROB | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| FE-Penelec | High Efficiency Griddle (ENERGY STAR) | Efficiency code minimum griddle (70% eff) | Retail | Cooking | Early | griddle | 11,317 | 65% | 1.4 | 12 | \$4,977 | 86% | 0.8 |
| FE-Penelec | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Retail | Cooking | New | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.2 |
| FE-Penelec | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Retail | Cooking | ROB | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.2 |
| FE-Penelec | High Efficiency Induction Cooking | Standard Cooking | Retail | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-Penelec | High Efficiency Induction Cooking | Standard Cooking | Retail | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Retail | Cooling Central | Existing | building | 3,768 | 7.0% | 0.07 | 6 | \$14,590 | 82% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|--|---|---------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Adding reflective roof treatment | Std color roof | Retail | Cooling Central | New | building | 3,768 | 7.0% | 0.07 | 6 | \$14,590 | 82% | 0.0 |
| FE-Penelec | Adding window shade film | No shade film | Retail | Cooling Central | Existing | building | 3,768 | 1.3% | 0.4 | 10 | \$46 | 13% | 6.1 |
| FE-Penelec | Adding window shade film | No shade film | Retail | Cooling Central | New | building | 3,768 | 1.3% | 0.4 | 10 | \$46 | 13% | 6.1 |
| FE-Penelec | Adding window shade screen | No shade screen | Retail | Cooling Central | Existing | building | 3,768 | 1.1% | 0.01 | 10 | \$18 | 13% | 1.2 |
| FE-Penelec | Adding window shade screen | No shade screen | Retail | Cooling Central | New | building | 3,768 | 1.0% | 0.01 | 10 | \$18 | 13% | 1.2 |
| FE-Penelec | Automated control system | Manual Controls | Retail | Cooling Central | Existing | building | 3,768 | 17% | 0.2 | 15 | \$4,125 | 51% | 0.1 |
| FE-Penelec | Automated control system | Manual Controls | Retail | Cooling Central | New | building | 3,768 | 17% | 0.2 | 15 | \$4,125 | 94% | 0.1 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Retail | Cooling Central | Existing | building | 3,768 | 4.9% | 0.05 | 15 | \$19,662 | 71% | 0.0 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Retail | Cooling Central | New | building | 3,768 | 1.6% | 0.02 | 15 | \$18,689 | 94% | 0.0 |
| FE-Penelec | Chiller Tuneup/Diagnostics | No tuneup | Retail | Cooling Central | Existing | building | 3,768 | 8.0% | 0.08 | 10 | \$9,620 | 59% | 0.0 |
| FE-Penelec | Chiller Tuneup/Diagnostics | No tuneup | Retail | Cooling Central | New | building | 3,768 | 8.0% | 0.08 | 10 | \$9,620 | 59% | 0.0 |
| FE-Penelec | Cooling Tower Optimization | No Cooling Tower Optimization | Retail | Cooling Central | Existing | building | 3,768 | 20% | 0.2 | 10 | \$23 | 69% | 17.9 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Retail | Cooling Central | Existing | building | 3,768 | 1.4% | 0.04 | 15 | \$30 | 20% | 2.2 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Retail | Cooling Central | New | building | 3,768 | 1.4% | 0.04 | 15 | \$30 | 10% | 2.2 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Retail | Cooling Central | Existing | building | 3,768 | 7.0% | 0.07 | 15 | \$16,712 | 25% | 0.0 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Retail | Cooling Central | New | building | 3,768 | 7.0% | 0.07 | 15 | \$16,712 | 35% | 0.0 |
| FE-Penelec | Hi Eff HVAC System Design | No HVAC Design | Retail | Cooling Central | New | building | 3,768 | 11% | 0.1 | 10 | \$179,491 | 51% | 0.0 |
| FE-Penelec | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Retail | Cooling Central | Early | ton | 5,960 | 24% | 0.5 | 15 | \$108,550 | 88% | 0.0 |
| FE-Penelec | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Retail | Cooling Central | New | ton | 4,872 | 6.7% | 0.1 | 15 | \$12,927 | 88% | 0.0 |
| FE-Penelec | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Retail | Cooling Central | ROB | ton | 4,872 | 6.7% | 0.1 | 15 | \$12,927 | 88% | 0.0 |
| FE-Penelec | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Retail | Cooling Central | Early | ton | 8,905 | 23% | 0.7 | 15 | \$140,105 | 88% | 0.0 |
| FE-Penelec | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Retail | Cooling Central | New | ton | 7,165 | 4.9% | 0.1 | 15 | \$9,336 | 88% | 0.0 |
| FE-Penelec | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Retail | Cooling Central | ROB | ton | 7,165 | 4.9% | 0.1 | 15 | \$9,336 | 88% | 0.0 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Retail | Cooling Central | Early | ton | 72,902 | 26% | 6.6 | 15 | \$105,354 | 88% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Retail | Cooling Central | New | ton | 63,519 | 15% | 3.3 | 15 | \$30,530 | 88% | 0.3 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Retail | Cooling Central | ROB | ton | 63,519 | 15% | 3.3 | 15 | \$30,530 | 88% | 0.3 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Retail | Cooling Central | Early | ton | 109,188 | 23% | 8.7 | 15 | \$154,107 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Retail | Cooling Central | New | ton | 100,302 | 16% | 5.6 | 15 | \$27,646 | 88% | 0.5 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Retail | Cooling Central | ROB | ton | 109,188 | 23% | 8.7 | 15 | \$27,646 | 88% | 0.8 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Retail | Cooling Central | Early | ton | 181,340 | 23% | 14.2 | 15 | \$302,924 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Retail | Cooling Central | New | ton | 164,126 | 14% | 8.2 | 15 | \$115,432 | 88% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Retail | Cooling Central | ROB | ton | 181,340 | 23% | 14.2 | 15 | \$115,432 | 88% | 0.3 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Retail | Cooling Central | Early | ton | 217,608 | 23% | 17.1 | 15 | \$350,154 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Retail | Cooling Central | New | ton | 196,951 | 14% | 9.9 | 15 | \$120,406 | 88% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Retail | Cooling Central | ROB | ton | 217,608 | 23% | 17.1 | 15 | \$120,406 | 88% | 0.4 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Retail | Cooling Central | Early | ton | 48,235 | 29% | 4.9 | 15 | \$83,632 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Retail | Cooling Central | New | ton | 37,454 | 8.9% | 1.2 | 15 | \$40,211 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Retail | Cooling Central | ROB | ton | 48,235 | 29% | 4.9 | 15 | \$40,211 | 88% | 0.3 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Retail | Cooling Central | Early | ton | 82,879 | 35% | 10.0 | 15 | \$132,173 | 88% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Retail | Cooling Central | New | ton | 61,814 | 13% | 2.7 | 15 | \$39,556 | 88% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Retail | Cooling Central | ROB | ton | 61,814 | 13% | 2.7 | 15 | \$39,556 | 88% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Retail | Cooling Central | Early | ton | 138,373 | 39% | 18.8 | 15 | \$187,029 | 88% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Retail | Cooling Central | New | ton | 98,658 | 15% | 5.0 | 15 | \$33,554 | 88% | 0.4 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Retail | Cooling Central | ROB | ton | 138,373 | 39% | 18.8 | 15 | \$33,554 | 88% | 1.4 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Retail | Cooling Central | Early | ton | 24,213 | 30% | 2.5 | 15 | \$32,398 | 88% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Retail | Cooling Central | New | ton | 19,184 | 11% | 0.7 | 15 | \$7,188 | 88% | 0.3 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Retail | Cooling Central | ROB | ton | 24,213 | 30% | 2.5 | 15 | \$7,188 | 88% | 0.9 |
| FE-Penelec | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Retail | Cooling Central | Existing | building | 3,768 | 2.3% | 0.02 | 10 | \$1,539 | 81% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|---|---------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Retail | Cooling Central | New | building | 3,768 | 2.3% | 0.02 | 10 | \$1,539 | 81% | 0.0 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Retail | Cooling Central | Existing | building | 3,768 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.2 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Retail | Cooling Central | New | building | 3,768 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.3 |
| FE-Penelec | Re-Commissioning (Existing Construction) | No Re-Commissioning | Retail | Cooling Central | Existing | building | 3,768 | 16% | 0.2 | 5 | \$8,051 | 86% | 0.0 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Retail | Cooling Central | Existing | building | 3,768 | 8.1% | 0.08 | 15 | \$5,499 | 26% | 0.0 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Retail | Cooling Central | New | building | 3,768 | 0.3% | 0.00 | 15 | \$4,218 | 94% | 0.0 |
| FE-Penelec | <65k BTU/hr 14 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Retail | Cooling Unitary | Early | ton | 2,786 | 16% | 0.2 | 15 | \$1,545 | 29% | 0.3 |
| FE-Penelec | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Retail | Cooling Unitary | New | ton | 2,523 | 7.1% | 0.09 | 15 | \$339 | 29% | 0.5 |
| FE-Penelec | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Retail | Cooling Unitary | ROB | ton | 2,523 | 7.1% | 0.09 | 15 | \$339 | 29% | 0.5 |
| FE-Penelec | <65k BTU/hr 15 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Retail | Cooling Unitary | Early | ton | 2,786 | 22% | 0.3 | 15 | \$1,821 | 30% | 0.3 |
| FE-Penelec | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Retail | Cooling Unitary | New | ton | 2,523 | 13% | 0.2 | 15 | \$714 | 30% | 0.5 |
| FE-Penelec | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Retail | Cooling Unitary | ROB | ton | 2,523 | 13% | 0.2 | 15 | \$714 | 30% | 0.5 |
| FE-Penelec | <65k BTU/hr 16 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Retail | Cooling Unitary | Early | ton | 2,786 | 26% | 0.4 | 15 | \$2,098 | 31% | 0.4 |
| FE-Penelec | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Retail | Cooling Unitary | New | ton | 2,523 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.4 |
| FE-Penelec | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Retail | Cooling Unitary | ROB | ton | 2,523 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.4 |
| FE-Penelec | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Retail | Cooling Unitary | Early | ton | 70,474 | 3.7% | 1.3 | 15 | \$68,066 | 56% | 0.0 |
| FE-Penelec | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Retail | Cooling Unitary | New | ton | 71,377 | 4.9% | 1.8 | 15 | \$6,231 | 56% | 0.6 |
| FE-Penelec | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Retail | Cooling Unitary | ROB | ton | 71,377 | 4.9% | 1.8 | 15 | \$6,231 | 56% | 0.6 |
| FE-Penelec | 135-240k min 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Retail | Cooling Unitary | Early | ton | 17,340 | 18% | 1.6 | 15 | \$18,135 | 79% | 0.2 |
| FE-Penelec | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Retail | Cooling Unitary | New | ton | 15,774 | 10.0% | 0.8 | 15 | \$1,948 | 79% | 0.8 |
| FE-Penelec | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Retail | Cooling Unitary | ROB | ton | 15,774 | 10.0% | 0.8 | 15 | \$1,948 | 79% | 0.8 |
| FE-Penelec | 240k-760k min 11 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Retail | Cooling Unitary | Early | ton | 46,364 | 9.0% | 2.1 | 15 | \$44,809 | 66% | 0.1 |
| FE-Penelec | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Retail | Cooling Unitary | New | ton | 46,480 | 9.3% | 2.2 | 15 | \$4,813 | 66% | 0.9 |
| FE-Penelec | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Retail | Cooling Unitary | ROB | ton | 46,480 | 9.3% | 2.2 | 15 | \$4,813 | 66% | 0.9 |
| FE-Penelec | 65k-135k BTU/hr 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Retail | Cooling Unitary | Early | ton | 10,222 | 17% | 0.9 | 15 | \$10,946 | 86% | 0.2 |
| FE-Penelec | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Retail | Cooling Unitary | New | ton | 9,110 | 6.7% | 0.3 | 15 | \$1,392 | 86% | 0.4 |
| FE-Penelec | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Retail | Cooling Unitary | ROB | ton | 9,110 | 6.7% | 0.3 | 15 | \$1,392 | 86% | 0.4 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Retail | Cooling Unitary | Existing | building | 34,956 | 7.0% | 0.07 | 6 | \$14,590 | 82% | 0.0 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Retail | Cooling Unitary | New | building | 34,956 | 7.1% | 0.07 | 6 | \$14,590 | 82% | 0.0 |
| FE-Penelec | Adding window shade film | No shade film | Retail | Cooling Unitary | Existing | building | 34,956 | 1.3% | 0.4 | 10 | \$425 | 12% | 1.0 |
| FE-Penelec | Adding window shade film | No shade film | Retail | Cooling Unitary | New | building | 34,956 | 1.3% | 0.4 | 10 | \$425 | 13% | 1.0 |
| FE-Penelec | Adding window shade screen | No shade screen | Retail | Cooling Unitary | Existing | building | 34,956 | 1.1% | 0.01 | 10 | \$165 | 12% | 0.9 |
| FE-Penelec | Adding window shade screen | No shade screen | Retail | Cooling Unitary | New | building | 34,956 | 1.1% | 0.01 | 10 | \$165 | 13% | 0.9 |
| FE-Penelec | Automated control system | Manual Controls | Retail | Cooling Unitary | Existing | building | 34,956 | 17% | 0.2 | 15 | \$38,268 | 51% | 0.1 |
| FE-Penelec | Automated control system | Manual Controls | Retail | Cooling Unitary | New | building | 34,956 | 17% | 0.2 | 15 | \$38,268 | 94% | 0.1 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Retail | Cooling Unitary | Existing | building | 34,956 | 4.9% | 0.05 | 15 | \$19,662 | 71% | 0.0 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Retail | Cooling Unitary | New | building | 34,956 | 1.6% | 0.02 | 15 | \$18,689 | 94% | 0.0 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Retail | Cooling Unitary | Existing | building | 34,956 | 1.4% | 0.04 | 15 | \$278 | 20% | 1.1 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Retail | Cooling Unitary | New | building | 34,956 | 1.4% | 0.04 | 15 | \$278 | 10% | 1.1 |
| FE-Penelec | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Retail | Cooling Unitary | Existing | building | 19,226 | 13% | 0.1 | 1 | \$184 | 73% | 0.7 |
| FE-Penelec | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Retail | Cooling Unitary | New | building | 19,226 | 13% | 0.1 | 1 | \$184 | 73% | 0.7 |
| FE-Penelec | ECM Motors for split systems | Std Shaded Pole Motor | Retail | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.9 |
| FE-Penelec | ECM Motors for split systems | Std Shaded Pole Motor | Retail | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.9 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Retail | Cooling Unitary | Existing | building | 34,956 | 7.1% | 0.07 | 15 | \$155,055 | 25% | 0.0 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Retail | Cooling Unitary | New | building | 34,956 | 7.0% | 0.07 | 15 | \$155,055 | 35% | 0.0 |
| FE-Penelec | Hi Eff HVAC System Design | No HVAC Design | Retail | Cooling Unitary | New | building | 34,956 | 11% | 0.1 | 10 | \$15,641 | 51% | 0.1 |
| FE-Penelec | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Retail | Cooling Unitary | Existing | building | 34,956 | 5.0% | 0.05 | 5 | \$225 | 59% | 1.7 |
| FE-Penelec | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Retail | Cooling Unitary | Existing | building | 34,956 | 0.8% | 0.1 | 5 | \$225 | 51% | 0.5 |
| FE-Penelec | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Retail | Cooling Unitary | New | building | 34,956 | 0.7% | 0.09 | 5 | \$135 | 51% | 0.7 |
| FE-Penelec | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Retail | Cooling Unitary | Existing | building | 34,956 | 2.3% | 0.02 | 10 | \$1,654 | 86% | 0.2 |
| FE-Penelec | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Retail | Cooling Unitary | New | building | 34,956 | 2.3% | 0.02 | 10 | \$1,654 | 86% | 0.2 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) | Retail | Cooling Unitary | Existing | building | 34,956 | 2.0% | 0.02 | 11 | \$286 | 49% | 1.0 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Retail | Cooling Unitary | New | building | 34,956 | 1.7% | 0.02 | 11 | \$146 | 49% | 1.7 |
| FE-Penelec | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Retail | Cooling Unitary | Early | unit | 3,186 | 19% | 0.4 | 15 | \$849 | 85% | 0.9 |
| FE-Penelec | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Retail | Cooling Unitary | New | unit | 3,218 | 20% | 0.5 | 15 | \$356 | 85% | 2.2 |
| FE-Penelec | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Retail | Cooling Unitary | ROB | unit | 3,218 | 20% | 0.5 | 15 | \$356 | 85% | 2.2 |
| FE-Penelec | Re-Commissioning (Existing Construction) | No Re-Commissioning | Retail | Cooling Unitary | Existing | building | 34,956 | 16% | 0.2 | 5 | \$8,051 | 86% | 0.2 |
| FE-Penelec | Room AC (w/ louvered sides) | Exisiting efficiency Room AC in Pennsylvania (2000 Federal Standards) | Retail | Cooling Unitary | Early | ton | 895 | 13% | 0.04 | 9 | \$348 | 82% | 0.2 |
| FE-Penelec | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Retail | Cooling Unitary | New | ton | 812 | 4.5% | 0.01 | 9 | \$17 | 82% | 1.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|--|---|---------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Retail | Cooling Unitary | ROB | ton | 812 | 4.5% | 0.01 | 9 | \$17 | 82% | 1.2 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Retail | Cooling Unitary | Existing | building | 34,956 | 8.1% | 0.08 | 15 | \$5,499 | 26% | 0.3 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Retail | Cooling Unitary | New | building | 34,956 | 0.3% | 0.00 | 15 | \$4,218 | 94% | 0.0 |
| FE-Penelec | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Retail | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 1.1 |
| FE-Penelec | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Retail | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.4 |
| FE-Penelec | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Retail | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.4 |
| FE-Penelec | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Retail | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 0% | 0.2 |
| FE-Penelec | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Retail | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-Penelec | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Retail | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-Penelec | LED exterior lighting | 250 Watt Incandescent | Retail | Ext. Lighting | ROB | measure | 475 | 83% | 0.1 | 15 | \$104 | 89% | 2.9 |
| FE-Penelec | LED exterior lighting | 250 Watt Incandescent | Retail | Ext. Lighting | ROB | measure | 431 | 83% | 0.1 | 15 | \$104 | 89% | 2.8 |
| FE-Penelec | LED exterior lighting | 250 Watt Incandescent | Retail | Ext. Lighting | ROB | measure | 431 | 83% | 0.1 | 15 | \$104 | 89% | 2.8 |
| FE-Penelec | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Retail | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 75% | 0.3 |
| FE-Penelec | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Retail | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 75% | 0.2 |
| FE-Penelec | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Retail | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.8 |
| FE-Penelec | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Retail | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.1 |
| FE-Penelec | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Retail | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.8 |
| FE-Penelec | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Retail | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.1 |
| FE-Penelec | Photocell Controls (Outdoor) | Lighting w/ No Controls | Retail | Ext. Lighting | Existing | building | 345 | 28% | 0.3 | 8 | \$1,459 | 88% | 0.1 |
| FE-Penelec | Photocell Controls (Outdoor) | Lighting w/ No Controls | Retail | Ext. Lighting | New | building | 345 | 28% | 0.3 | 8 | \$1,459 | 0% | 0.1 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Retail | Heat Pump | Existing | building | 3,556 | 6.9% | 0.07 | 6 | \$14,590 | 82% | 0.0 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Retail | Heat Pump | New | building | 3,556 | 6.9% | 0.07 | 6 | \$14,590 | 82% | 0.0 |
| FE-Penelec | Adding window shade film | No shade film | Retail | Heat Pump | Existing | building | 3,556 | 3.9% | 0.4 | 10 | \$43 | 12% | 7.1 |
| FE-Penelec | Adding window shade film | No shade film | Retail | Heat Pump | New | building | 3,556 | 3.9% | 0.4 | 10 | \$43 | 12% | 7.1 |
| FE-Penelec | Adding window shade screen | No shade screen | Retail | Heat Pump | Existing | building | 3,556 | 0.3% | 0.01 | 10 | \$5.6 | 12% | 2.0 |
| FE-Penelec | Adding window shade screen | No shade screen | Retail | Heat Pump | New | building | 3,556 | 0.3% | 0.01 | 10 | \$5.6 | 12% | 2.0 |
| FE-Penelec | Automated control system | Manual Controls | Retail | Heat Pump | Existing | building | 3,556 | 17% | 0.2 | 15 | \$3,892 | 51% | 0.1 |
| FE-Penelec | Automated control system | Manual Controls | Retail | Heat Pump | New | building | 3,556 | 17% | 0.2 | 15 | \$3,892 | 94% | 0.1 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Retail | Heat Pump | Existing | building | 3,556 | 4.9% | 0.05 | 15 | \$19,662 | 71% | 0.0 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Retail | Heat Pump | New | building | 3,556 | 1.6% | 0.02 | 15 | \$18,689 | 94% | 0.0 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Retail | Heat Pump | Existing | building | 3,556 | 4.0% | 0.04 | 15 | \$28 | 12% | 3.8 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Retail | Heat Pump | New | building | 3,556 | 4.0% | 0.04 | 15 | \$28 | 6% | 3.8 |
| FE-Penelec | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Retail | Heat Pump | Early | heat pump | 1,805 | 13% | 0.02 | 15 | \$4,070 | 83% | 0.0 |
| FE-Penelec | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Retail | Heat Pump | New | heat pump | 1,712 | 7.7% | 0.01 | 15 | \$1,097 | 83% | 0.1 |
| FE-Penelec | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Retail | Heat Pump | ROB | heat pump | 1,712 | 7.7% | 0.01 | 15 | \$1,097 | 83% | 0.1 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Retail | Heat Pump | Existing | building | 3,556 | 7.0% | 0.07 | 15 | \$15,772 | 25% | 0.0 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Retail | Heat Pump | New | building | 3,556 | 7.0% | 0.07 | 15 | \$15,772 | 35% | 0.0 |
| FE-Penelec | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Retail | Heat Pump | Early | heat pump | 19,213 | 15% | 0.3 | 15 | \$91,117 | 19% | 0.0 |
| FE-Penelec | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Retail | Heat Pump | New | heat pump | 18,566 | 13% | 0.2 | 15 | \$33,927 | 19% | 0.0 |
| FE-Penelec | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Retail | Heat Pump | ROB | heat pump | 18,566 | 13% | 0.2 | 15 | \$33,927 | 19% | 0.0 |
| FE-Penelec | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Retail | Heat Pump | Early | heat pump | 19,213 | 15% | 0.3 | 15 | \$58,356 | 19% | 0.0 |
| FE-Penelec | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Retail | Heat Pump | New | heat pump | 18,566 | 13% | 0.2 | 15 | \$1,167 | 19% | 1.1 |
| FE-Penelec | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Retail | Heat Pump | ROB | heat pump | 18,566 | 13% | 0.2 | 15 | \$1,167 | 19% | 1.1 |
| FE-Penelec | Hi Eff HVAC System Design | No HVAC Design | Retail | Heat Pump | New | building | 3,556 | 11% | 0.1 | 10 | \$179,491 | 51% | 0.0 |
| FE-Penelec | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Retail | Heat Pump | Early | heat pump | 4,999 | 16% | 0.07 | 12 | \$4,298 | 81% | 0.1 |
| FE-Penelec | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Retail | Heat Pump | New | heat pump | 4,783 | 12% | 0.05 | 12 | \$852 | 81% | 0.3 |
| FE-Penelec | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Retail | Heat Pump | ROB | heat pump | 4,783 | 12% | 0.05 | 12 | \$852 | 81% | 0.3 |
| FE-Penelec | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Retail | Heat Pump | Existing | building | 3,556 | 5.0% | 0.02 | 5 | \$90 | 51% | 0.5 |
| FE-Penelec | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Retail | Heat Pump | New | building | 3,556 | 5.0% | 0.02 | 5 | \$90 | 51% | 0.5 |
| FE-Penelec | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Retail | Heat Pump | Existing | building | 3,556 | 2.3% | 0.02 | 10 | \$1,473 | 81% | 0.0 |
| FE-Penelec | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Retail | Heat Pump | New | building | 3,556 | 2.3% | 0.02 | 10 | \$1,473 | 81% | 0.0 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Retail | Heat Pump | Existing | building | 3,556 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.2 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Retail | Heat Pump | New | building | 3,556 | 2.1% | 0.02 | 11 | \$146 | 49% | 0.3 |
| FE-Penelec | Re-Commissioning (Existing Construction) | No Re-Commissioning | Retail | Heat Pump | Existing | building | 3,556 | 16% | 0.2 | 5 | \$8,051 | 86% | 0.0 |
| FE-Penelec | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Retail | Heat Pump | New | measure | 679,680 | 2.0% | 1.6 | 13 | \$85,564 | 43% | 0.1 |
| FE-Penelec | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Retail | Heat Pump | ROB | measure | 679,680 | 2.0% | 1.6 | 13 | \$85,564 | 43% | 0.1 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Retail | Heat Pump | Existing | building | 3,556 | 8.1% | 0.08 | 15 | \$5,499 | 26% | 0.0 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Retail | Heat Pump | New | building | 3,556 | 0.3% | 0.00 | 15 | \$4,218 | 94% | 0.0 |
| FE-Penelec | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Retail | Heat Pump | Early | heat pump | 8,074 | 36% | 0.3 | 15 | \$35,347 | 28% | 0.0 |
| FE-Penelec | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Retail | Heat Pump | New | heat pump | 7,706 | 33% | 0.2 | 15 | \$15,739 | 28% | 0.1 |
| FE-Penelec | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Retail | Heat Pump | ROB | heat pump | 7,706 | 33% | 0.2 | 15 | \$15,739 | 28% | 0.1 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Retail | High Bay Lighting | Early | Fixture | 614 | 9.6% | 0.02 | 13 | \$850 | 39% | 0.0 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Retail | High Bay Lighting | Early | Fixture | 613 | 9.5% | 0.02 | 13 | \$850 | 28% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|---|---------|-------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Retail | High Bay Lighting | Early | Fixture | 947 | 41% | 0.1 | 13 | \$850 | 36% | 0.3 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Retail | High Bay Lighting | New | Fixture | 466 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Retail | High Bay Lighting | New | Fixture | 434 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Retail | High Bay Lighting | New | Fixture | 720 | 41% | 0.08 | 13 | \$397 | 36% | 0.5 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Retail | High Bay Lighting | ROB | Fixture | 614 | 9.6% | 0.02 | 13 | \$372 | 39% | 0.1 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Retail | High Bay Lighting | ROB | Fixture | 571 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Retail | High Bay Lighting | ROB | Fixture | 947 | 41% | 0.1 | 13 | \$397 | 36% | 0.7 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Retail | High Bay Lighting | Early | Fixture | 1,192 | 19% | 0.06 | 13 | \$851 | 38% | 0.2 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Retail | High Bay Lighting | Early | Fixture | 1,207 | 20% | 0.07 | 13 | \$851 | 38% | 0.2 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | Early | Fixture | 3,510 | 73% | 0.7 | 13 | \$851 | 38% | 2.1 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Retail | High Bay Lighting | New | Fixture | 906 | 19% | 0.05 | 13 | \$372 | 38% | 0.3 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | New | Fixture | 2,667 | 73% | 0.5 | 13 | \$383 | 38% | 3.5 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Retail | High Bay Lighting | ROB | Fixture | 1,192 | 19% | 0.06 | 13 | \$372 | 38% | 0.4 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | ROB | Fixture | 3,510 | 73% | 0.7 | 13 | \$383 | 38% | 4.6 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Retail | High Bay Lighting | Early | Fixture | 1,192 | 25% | 0.08 | 13 | \$554 | 29% | 0.4 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Retail | High Bay Lighting | Early | Fixture | 1,170 | 23% | 0.07 | 13 | \$554 | 28% | 0.3 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | Early | Fixture | 3,510 | 74% | 0.7 | 13 | \$554 | 36% | 3.3 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Retail | High Bay Lighting | New | Fixture | 906 | 25% | 0.06 | 13 | \$75 | 29% | 2.1 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | New | Fixture | 2,667 | 74% | 0.5 | 13 | \$86 | 36% | 16.0 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Retail | High Bay Lighting | ROB | Fixture | 1,192 | 25% | 0.08 | 13 | \$75 | 29% | 2.7 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | ROB | Fixture | 3,510 | 74% | 0.7 | 13 | \$86 | 36% | 21.1 |
| FE-Penelec | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Retail | High Bay Lighting | Early | Fixture | 311 | 0.2% | 0.00 | 13 | \$835 | 38% | 0.0 |
| FE-Penelec | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Retail | High Bay Lighting | Early | Fixture | 669 | 54% | 0.10 | 13 | \$835 | 38% | 0.3 |
| FE-Penelec | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Retail | High Bay Lighting | New | Fixture | 509 | 54% | 0.07 | 13 | \$382 | 38% | 0.5 |
| FE-Penelec | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Retail | High Bay Lighting | ROB | Fixture | 669 | 54% | 0.10 | 13 | \$382 | 38% | 0.6 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Retail | High Bay Lighting | Early | Fixture | 1,518 | 18% | 0.08 | 13 | \$487 | 25% | 0.4 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Retail | High Bay Lighting | Early | Fixture | 1,587 | 22% | 0.09 | 13 | \$487 | 28% | 0.5 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | Early | Fixture | 3,510 | 65% | 0.6 | 13 | \$487 | 36% | 3.2 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Retail | High Bay Lighting | New | Fixture | 1,154 | 18% | 0.06 | 13 | \$16 | 25% | 9.0 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | New | Fixture | 2,667 | 65% | 0.5 | 13 | \$18 | 36% | 64.8 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Retail | High Bay Lighting | ROB | Fixture | 1,518 | 18% | 0.08 | 13 | \$16 | 25% | 11.8 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | ROB | Fixture | 3,510 | 65% | 0.6 | 13 | \$18 | 36% | 85.3 |
| FE-Penelec | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Retail | High Bay Lighting | Early | Fixture | 1,518 | 1.5% | 0.01 | 13 | \$557 | 19% | 0.0 |
| FE-Penelec | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Retail | High Bay Lighting | Early | Fixture | 1,563 | 4.3% | 0.02 | 13 | \$557 | 19% | 0.1 |
| FE-Penelec | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | Early | Fixture | 3,510 | 57% | 0.5 | 13 | \$557 | 19% | 2.5 |
| FE-Penelec | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Retail | High Bay Lighting | New | Fixture | 1,154 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| FE-Penelec | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | New | Fixture | 2,667 | 57% | 0.4 | 13 | \$88 | 19% | 12.0 |
| FE-Penelec | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Retail | High Bay Lighting | ROB | Fixture | 1,518 | 1.5% | 0.01 | 13 | \$86 | 19% | 0.2 |
| FE-Penelec | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | ROB | Fixture | 3,510 | 57% | 0.5 | 13 | \$88 | 19% | 15.8 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Retail | High Bay Lighting | Early | Fixture | 645 | 29% | 0.04 | 13 | \$492 | 71% | 0.2 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Retail | High Bay Lighting | Early | Fixture | 539 | 15% | 0.02 | 13 | \$492 | 95% | 0.1 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Retail | High Bay Lighting | Early | Fixture | 801 | 43% | 0.07 | 13 | \$492 | 95% | 0.4 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Retail | High Bay Lighting | Early | Fixture | 742 | 38% | 0.05 | 13 | \$492 | 95% | 0.4 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Retail | High Bay Lighting | New | Fixture | 410 | 15% | 0.01 | 13 | \$25 | 95% | 1.5 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Retail | High Bay Lighting | New | Fixture | 609 | 43% | 0.05 | 13 | \$51 | 95% | 3.2 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Retail | High Bay Lighting | ROB | Fixture | 539 | 15% | 0.02 | 13 | \$25 | 95% | 2.0 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Retail | High Bay Lighting | ROB | Fixture | 801 | 43% | 0.07 | 13 | \$51 | 95% | 4.2 |
| FE-Penelec | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Retail | High Bay Lighting | Early | lamp | 94 | 16% | 0.00 | 11 | \$7.7 | 99% | 1.2 |
| FE-Penelec | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Retail | High Bay Lighting | New | lamp | 56 | 13% | 0.00 | 11 | \$1.6 | 91% | 2.6 |
| FE-Penelec | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Retail | High Bay Lighting | ROB | lamp | 91 | 13% | 0.00 | 11 | \$1.6 | 91% | 4.1 |
| FE-Penelec | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Retail | High Bay Lighting | Early | Fixture | 3,591 | 23% | 0.2 | 13 | \$613 | 5% | 0.9 |
| FE-Penelec | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Retail | High Bay Lighting | Early | Fixture | 2,821 | 1.6% | 0.01 | 13 | \$613 | 28% | 0.1 |
| FE-Penelec | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | Early | Fixture | 7,019 | 60% | 1.1 | 13 | \$613 | 18% | 4.8 |
| FE-Penelec | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Retail | High Bay Lighting | New | Fixture | 2,729 | 23% | 0.2 | 13 | \$96 | 5% | 4.5 |
| FE-Penelec | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Retail | High Bay Lighting | ROB | Fixture | 3,591 | 23% | 0.2 | 13 | \$96 | 5% | 5.9 |
| FE-Penelec | Auto Off Time Switch | Lighting w/ No Controls | Retail | High Bay Lighting | Existing | building | 6,245 | 24% | 0.2 | 8 | \$296 | 13% | 2.0 |
| FE-Penelec | Auto Off Time Switch | Lighting w/ No Controls | Retail | High Bay Lighting | New | building | 6,245 | 6.9% | 0.07 | 8 | \$296 | 0% | 0.6 |
| FE-Penelec | Central Lighting Control System | Lighting w/ No Controls | Retail | High Bay Lighting | Existing | building | 6,245 | 38% | 0.4 | 8 | \$296 | 13% | 3.2 |
| FE-Penelec | Central Lighting Control System | Lighting w/ No Controls | Retail | High Bay Lighting | New | building | 6,245 | 14% | 0.1 | 8 | \$296 | 13% | 1.2 |
| FE-Penelec | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Retail | High Bay Lighting | New | building | 6,245 | 10% | 0.1 | 15 | \$29,254 | 32% | 0.0 |
| FE-Penelec | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Retail | High Bay Lighting | New | building | 6,245 | 15% | 0.2 | 15 | \$73,134 | 32% | 0.0 |
| FE-Penelec | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Retail | High Bay Lighting | New | building | 6,245 | 30% | 0.3 | 15 | \$104,825 | 32% | 0.0 |
| FE-Penelec | Indoor Daylight Sensors | Lighting w/ No Controls | Retail | High Bay Lighting | Existing | building | 6,245 | 28% | 0.3 | 8 | \$1,459 | 13% | 0.5 |
| FE-Penelec | Indoor Daylight Sensors | Lighting w/ No Controls | Retail | High Bay Lighting | New | building | 6,245 | 4.0% | 0.04 | 8 | \$1,459 | 0% | 0.1 |
| FE-Penelec | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Retail | High Bay Lighting | Early | Fixture | 3,591 | 92% | 0.9 | 13 | \$1,916 | 95% | 1.2 |
| FE-Penelec | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | Early | Fixture | 7,019 | 96% | 1.8 | 13 | \$1,916 | 95% | 2.4 |
| FE-Penelec | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Retail | High Bay Lighting | New | Fixture | 2,729 | 92% | 0.7 | 13 | \$1,468 | 95% | 1.2 |
| FE-Penelec | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | New | Fixture | 5,335 | 96% | 1.4 | 13 | \$1,149 | 95% | 3.1 |
| FE-Penelec | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Retail | High Bay Lighting | ROB | Fixture | 3,591 | 92% | 0.9 | 13 | \$1,468 | 95% | 1.6 |
| FE-Penelec | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | ROB | Fixture | 7,019 | 96% | 1.8 | 13 | \$1,149 | 95% | 4.1 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Retail | High Bay Lighting | Early | Fixture | 1,192 | 67% | 0.2 | 13 | \$960 | 95% | 0.6 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Retail | High Bay Lighting | Early | Fixture | 3,510 | 89% | 0.8 | 13 | \$960 | 95% | 2.2 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Retail | High Bay Lighting | Early | Fixture | 963 | 59% | 0.2 | 13 | \$960 | 95% | 0.4 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Retail | High Bay Lighting | New | Fixture | 906 | 67% | 0.2 | 13 | \$480 | 95% | 0.9 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|--|---------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Retail | High Bay Lighting | New | Fixture | 2,667 | 89% | 0.6 | 13 | \$491 | 95% | 3.3 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Retail | High Bay Lighting | New | Fixture | 732 | 59% | 0.1 | 13 | \$406 | 95% | 0.7 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Retail | High Bay Lighting | ROB | Fixture | 1,192 | 67% | 0.2 | 13 | \$480 | 95% | 1.1 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Retail | High Bay Lighting | ROB | Fixture | 3,510 | 89% | 0.8 | 13 | \$491 | 95% | 4.4 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Retail | High Bay Lighting | ROB | Fixture | 963 | 59% | 0.2 | 13 | \$406 | 95% | 1.0 |
| FE-Penelec | Occupancy Sensor | Lighting w/ No Controls | Retail | High Bay Lighting | Existing | building | 6,245 | 24% | 0.2 | 8 | \$447 | 12% | 1.4 |
| FE-Penelec | Occupancy Sensor | Lighting w/ No Controls | Retail | High Bay Lighting | New | building | 6,245 | 6.9% | 0.07 | 8 | \$447 | 0% | 0.4 |
| FE-Penelec | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Retail | High Bay Lighting | Existing | building | 6,245 | 28% | 0.3 | 8 | \$1,459 | 12% | 0.5 |
| FE-Penelec | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Retail | High Bay Lighting | New | building | 6,245 | 4.0% | 0.04 | 8 | \$1,459 | 0% | 0.1 |
| FE-Penelec | Time Clock Control | Lighting w/ No Controls | Retail | High Bay Lighting | Existing | building | 6,245 | 28% | 0.3 | 8 | \$296 | 13% | 2.4 |
| FE-Penelec | Time Clock Control | Lighting w/ No Controls | Retail | High Bay Lighting | New | building | 6,245 | 4.0% | 0.04 | 8 | \$296 | 0% | 0.3 |
| FE-Penelec | Auto Off Time Switch | Lighting w/ No Controls | Retail | Lin. Fluor. Lighting | Existing | building | 11,979 | 24% | 0.2 | 8 | \$296 | 13% | 3.5 |
| FE-Penelec | Auto Off Time Switch | Lighting w/ No Controls | Retail | Lin. Fluor. Lighting | New | building | 11,979 | 7.0% | 0.07 | 8 | \$296 | 0% | 1.0 |
| FE-Penelec | Central Lighting Control System | Lighting w/ No Controls | Retail | Lin. Fluor. Lighting | Existing | building | 11,979 | 38% | 0.4 | 8 | \$296 | 12% | 5.5 |
| FE-Penelec | Central Lighting Control System | Lighting w/ No Controls | Retail | Lin. Fluor. Lighting | New | building | 11,979 | 14% | 0.1 | 8 | \$296 | 12% | 2.0 |
| FE-Penelec | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Retail | Lin. Fluor. Lighting | New | building | 11,979 | 10% | 0.1 | 15 | \$29,254 | 32% | 0.0 |
| FE-Penelec | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Retail | Lin. Fluor. Lighting | New | building | 11,979 | 15% | 0.2 | 15 | \$73,134 | 32% | 0.0 |
| FE-Penelec | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Retail | Lin. Fluor. Lighting | New | building | 11,979 | 30% | 0.3 | 15 | \$104,825 | 32% | 0.0 |
| FE-Penelec | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Retail | Lin. Fluor. Lighting | Early | Lamp | 190 | 38% | 0.02 | 11 | \$7.3 | 94% | 5.5 |
| FE-Penelec | Indoor Daylight Sensors | Lighting w/ No Controls | Retail | Lin. Fluor. Lighting | Existing | building | 11,979 | 28% | 0.3 | 8 | \$1,459 | 13% | 0.8 |
| FE-Penelec | Indoor Daylight Sensors | Lighting w/ No Controls | Retail | Lin. Fluor. Lighting | New | building | 11,979 | 4.1% | 0.04 | 8 | \$1,459 | 0% | 0.1 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Retail | Lin. Fluor. Lighting | Early | Lamp | 72 | 19% | 0.00 | 15 | \$35 | 94% | 0.3 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 40W T12 Lamp, Magnetic Ballast | Retail | Lin. Fluor. Lighting | Early | Lamp | 158 | 63% | 0.03 | 15 | \$35 | 94% | 2.3 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Retail | Lin. Fluor. Lighting | Early | Lamp | 89 | 34% | 0.01 | 15 | \$35 | 94% | 0.7 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Retail | Lin. Fluor. Lighting | Early | Lamp | 86 | 32% | 0.01 | 15 | \$35 | 94% | 0.6 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Retail | Lin. Fluor. Lighting | New | Lamp | 55 | 19% | 0.00 | 15 | \$28 | 94% | 0.3 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Retail | Lin. Fluor. Lighting | New | Lamp | 65 | 32% | 0.01 | 15 | \$29 | 94% | 0.6 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Retail | Lin. Fluor. Lighting | New | Lamp | 67 | 34% | 0.01 | 15 | \$22 | 94% | 0.9 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Retail | Lin. Fluor. Lighting | New | Lamp | 65 | 32% | 0.01 | 15 | \$29 | 94% | 0.6 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Retail | Lin. Fluor. Lighting | ROB | Lamp | 72 | 19% | 0.00 | 15 | \$28 | 94% | 0.4 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Retail | Lin. Fluor. Lighting | ROB | Lamp | 86 | 32% | 0.01 | 15 | \$29 | 94% | 0.8 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Retail | Lin. Fluor. Lighting | ROB | Lamp | 89 | 34% | 0.01 | 15 | \$22 | 94% | 1.1 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Retail | Lin. Fluor. Lighting | ROB | Lamp | 86 | 32% | 0.01 | 15 | \$29 | 94% | 0.8 |
| FE-Penelec | Occupancy Sensor | Lighting w/ No Controls | Retail | Lin. Fluor. Lighting | Existing | building | 11,979 | 24% | 0.2 | 8 | \$447 | 13% | 2.3 |
| FE-Penelec | Occupancy Sensor | Lighting w/ No Controls | Retail | Lin. Fluor. Lighting | New | building | 11,979 | 6.9% | 0.07 | 8 | \$447 | 0% | 0.7 |
| FE-Penelec | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Retail | Lin. Fluor. Lighting | Existing | building | 11,979 | 28% | 0.3 | 8 | \$1,459 | 12% | 0.8 |
| FE-Penelec | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Retail | Lin. Fluor. Lighting | New | building | 11,979 | 4.1% | 0.04 | 8 | \$1,459 | 0% | 0.1 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 40W T12 w/ Magnetic Ballast | Retail | Lin. Fluor. Lighting | Early | Lamp | 190 | 54% | 0.02 | 11 | \$9.1 | 94% | 6.3 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Retail | Lin. Fluor. Lighting | Early | Lamp | 121 | 28% | 0.01 | 11 | \$9.1 | 24% | 2.1 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Retail | Lin. Fluor. Lighting | Early | Lamp | 118 | 26% | 0.01 | 11 | \$9.1 | 94% | 1.9 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Retail | Lin. Fluor. Lighting | New | Lamp | 89 | 26% | 0.00 | 11 | \$2.5 | 94% | 5.1 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Retail | Lin. Fluor. Lighting | New | Lamp | 89 | 26% | 0.00 | 11 | \$2.5 | 94% | 5.1 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Retail | Lin. Fluor. Lighting | New | Lamp | 92 | 28% | 0.01 | 11 | \$2.5 | 24% | 5.8 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Retail | Lin. Fluor. Lighting | New | Lamp | 89 | 26% | 0.00 | 11 | \$2.5 | 94% | 5.1 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Retail | Lin. Fluor. Lighting | ROB | Lamp | 118 | 26% | 0.01 | 11 | \$2.5 | 94% | 6.7 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Retail | Lin. Fluor. Lighting | ROB | Lamp | 118 | 26% | 0.01 | 11 | \$2.5 | 94% | 6.7 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Retail | Lin. Fluor. Lighting | ROB | Lamp | 121 | 28% | 0.01 | 11 | \$2.5 | 24% | 7.6 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Retail | Lin. Fluor. Lighting | ROB | Lamp | 118 | 26% | 0.01 | 11 | \$2.5 | 94% | 6.7 |
| FE-Penelec | T8 Lamp (any length) Electronic Ballast | Standard T12 lamp (any length) | Retail | Lin. Fluor. Lighting | Early | Lamp | 223 | 42% | 0.02 | 11 | \$14 | 94% | 3.8 |
| FE-Penelec | Time Clock Control | Lighting w/ No Controls | Retail | Lin. Fluor. Lighting | Existing | building | 11,979 | 28% | 0.3 | 8 | \$296 | 14% | 4.1 |
| FE-Penelec | Time Clock Control | Lighting w/ No Controls | Retail | Lin. Fluor. Lighting | New | building | 11,979 | 4.1% | 0.04 | 8 | \$296 | 0% | 0.6 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | Early | motor | 3,091 | 3.6% | 0.01 | 15 | \$374 | 76% | 0.2 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | Early | motor | 3,091 | 3.6% | 0.01 | 15 | \$374 | 76% | 0.2 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | Early | motor | 3,091 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | Early | motor | 3,091 | 3.6% | 0.01 | 15 | \$374 | 76% | 0.2 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | New | motor | 2,997 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | New | motor | 2,997 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | New | motor | 2,997 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | New | motor | 2,997 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | ROB | motor | 2,997 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | ROB | motor | 2,997 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|--|---------|---------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | Early | motor | 21,635 | 2.9% | 0.09 | 15 | \$802 | 83% | 0.5 |
| FE-Penelec | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | Early | motor | 21,635 | 2.9% | 0.08 | 15 | \$802 | 83% | 0.5 |
| FE-Penelec | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | New | motor | 21,118 | 0.5% | 0.01 | 15 | \$123 | 83% | 0.6 |
| FE-Penelec | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | New | motor | 21,118 | 0.5% | 0.01 | 15 | \$123 | 83% | 0.6 |
| FE-Penelec | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | New | motor | 21,118 | 0.5% | 0.01 | 15 | \$123 | 83% | 0.6 |
| FE-Penelec | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | New | motor | 21,118 | 0.5% | 0.01 | 15 | \$123 | 83% | 0.6 |
| FE-Penelec | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | ROB | motor | 21,118 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.6 |
| FE-Penelec | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | ROB | motor | 21,118 | 0.5% | 0.01 | 15 | \$123 | 83% | 0.6 |
| FE-Penelec | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | ROB | motor | 21,118 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.6 |
| FE-Penelec | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | ROB | motor | 21,118 | 0.5% | 0.01 | 15 | \$123 | 83% | 0.6 |
| FE-Penelec | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | ROB | motor | 21,118 | 0.5% | 0.01 | 15 | \$123 | 83% | 0.6 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | Early | motor | 203,967 | 1.3% | 0.4 | 15 | \$3,955 | 61% | 0.4 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | Early | motor | 203,967 | 1.3% | 0.4 | 15 | \$3,955 | 61% | 0.4 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | Early | motor | 203,967 | 1.3% | 0.4 | 15 | \$3,955 | 61% | 0.4 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | Early | motor | 203,967 | 1.3% | 0.4 | 15 | \$3,955 | 61% | 0.4 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | Early | motor | 203,967 | 1.3% | 0.4 | 15 | \$3,955 | 61% | 0.4 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | New | motor | 202,286 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.2 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | New | motor | 202,286 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.2 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | New | motor | 202,286 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.2 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | New | motor | 202,286 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.2 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | ROB | motor | 202,286 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.2 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | ROB | motor | 202,286 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.2 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | ROB | motor | 202,286 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.2 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | ROB | motor | 202,286 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.2 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | ROB | motor | 202,286 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.2 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | ROB | motor | 202,286 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.2 |
| FE-Penelec | ASD HVAC Fan | Std. HVAC Fan | Retail | Motors | New | measure | 3,330 | 9.1% | 0.03 | 15 | \$8,846 | 85% | 0.0 |
| FE-Penelec | ASD HVAC Fan | Std. HVAC Fan | Retail | Motors | ROB | measure | 3,330 | 9.1% | 0.03 | 15 | \$8,846 | 85% | 0.0 |
| FE-Penelec | CO sensors for parking garage exhaust fans | No CO Sensors | Retail | Motors | Existing | building | 799 | 45% | 0.5 | 8 | \$80 | 4% | 4.7 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Retail | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 21.8 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Retail | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 22.1 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Retail | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 22.6 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Retail | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 23.2 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Retail | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 23.4 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Retail | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 21.6 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Retail | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 22.4 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Retail | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 22.6 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Retail | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 23.3 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Retail | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 23.4 |
| FE-Penelec | Escalator Motor Controller | Constant power control | Retail | Motors | New | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 67% | 5.9 |
| FE-Penelec | Escalator Motor Controller | Constant power control | Retail | Motors | ROB | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 67% | 5.9 |
| FE-Penelec | Variable Speed Drive Control, 15HP | Existing Motors w/out VSD Drive | Retail | Motors | Early | motor | 42,235 | 70% | 4.3 | 15 | \$731 | 86% | 27.0 |
| FE-Penelec | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Retail | Motors | New | motor | 41,327 | 72% | 4.4 | 15 | \$731 | 86% | 27.0 |
| FE-Penelec | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Retail | Motors | ROB | motor | 41,327 | 72% | 4.4 | 15 | \$731 | 86% | 27.0 |
| FE-Penelec | Variable Speed Drive Control, 40HP | Existing Motors w/out VSD Drive | Retail | Motors | Early | motor | 110,206 | 71% | 11.5 | 15 | \$4,666 | 86% | 11.2 |
| FE-Penelec | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Retail | Motors | New | motor | 108,918 | 72% | 11.5 | 15 | \$4,666 | 86% | 11.2 |
| FE-Penelec | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Retail | Motors | ROB | motor | 108,918 | 72% | 11.5 | 15 | \$4,666 | 86% | 11.2 |
| FE-Penelec | Variable Speed Drive Control, 5HP | Existing Motors w/out VFD Drive | Retail | Motors | Early | motor | 14,642 | 70% | 1.5 | 15 | \$2,243 | 86% | 3.1 |
| FE-Penelec | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Retail | Motors | New | motor | 14,314 | 72% | 1.5 | 15 | \$2,243 | 86% | 3.1 |
| FE-Penelec | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Retail | Motors | ROB | motor | 14,314 | 72% | 1.5 | 15 | \$2,243 | 86% | 3.1 |
| FE-Penelec | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Retail | Motors | Early | motor | 3,501 | 32% | 0.1 | 15 | \$268 | 13% | 2.6 |
| FE-Penelec | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Retail | Motors | New | motor | 3,501 | 32% | 0.1 | 15 | \$268 | 13% | 2.6 |
| FE-Penelec | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Retail | Motors | ROB | motor | 3,501 | 32% | 0.1 | 15 | \$268 | 13% | 2.6 |
| FE-Penelec | VFD on Chilled Water Pump | Motor w/out VFD Drive | Retail | Motors | Early | motor | 25,524 | 54% | 2.7 | 15 | \$2,903 | 86% | 3.3 |
| FE-Penelec | VFD on Chilled Water Pump | Motor w/out VFD Drive | Retail | Motors | New | motor | 25,047 | 55% | 2.7 | 15 | \$2,843 | 86% | 3.3 |
| FE-Penelec | VFD on Chilled Water Pump | Motor w/out VFD Drive | Retail | Motors | ROB | motor | 25,047 | 55% | 2.7 | 15 | \$2,843 | 86% | 3.3 |
| FE-Penelec | VFD on Condenser Water Pump | Motor w/out VFD Drive | Retail | Motors | Early | motor | 25,120 | 32% | 3.2 | 15 | \$2,903 | 86% | 2.4 |
| FE-Penelec | VFD on Condenser Water Pump | Motor w/out VFD Drive | Retail | Motors | New | motor | 24,650 | 33% | 3.1 | 15 | \$2,843 | 86% | 2.5 |
| FE-Penelec | VFD on Condenser Water Pump | Motor w/out VFD Drive | Retail | Motors | ROB | motor | 24,650 | 33% | 3.1 | 15 | \$2,843 | 86% | 2.5 |
| FE-Penelec | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Retail | Motors | Early | motor | 25,841 | 56% | 0.00 | 15 | \$2,903 | 86% | 2.5 |
| FE-Penelec | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Retail | Motors | New | motor | 25,358 | 57% | 0.00 | 15 | \$2,843 | 86% | 2.6 |
| FE-Penelec | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Retail | Motors | ROB | motor | 25,358 | 57% | 0.00 | 15 | \$2,843 | 86% | 2.6 |
| FE-Penelec | VFD on HVAC Fan | Motor w/out VFD | Retail | Motors | Early | motor | 25,524 | 70% | 3.4 | 15 | \$2,903 | 86% | 4.4 |
| FE-Penelec | VFD on HVAC Fan | Motor w/out VFD | Retail | Motors | New | motor | 25,047 | 72% | 3.3 | 15 | \$2,843 | 86% | 4.4 |
| FE-Penelec | VFD on HVAC Fan | Motor w/out VFD | Retail | Motors | ROB | motor | 25,047 | 72% | 3.3 | 15 | \$2,843 | 86% | 4.4 |
| FE-Penelec | Elevators | Std. Eff Elevator | Retail | Other | ROB | measure | 89,016 | 0.6% | 0.07 | 15 | \$126 | 63% | 2.6 |
| FE-Penelec | Variable Speed Drives on Process Equipment | Constant speed control | Retail | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 10.6 |
| FE-Penelec | Variable Speed Drives on Process Equipment | Constant speed control | Retail | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 10.6 |
| FE-Penelec | Auto Off Time Switch | Lighting w/ No Controls | Retail | Other Int. Lighting | Existing | building | 6,734 | 24% | 0.2 | 8 | \$296 | 13% | 2.2 |
| FE-Penelec | Auto Off Time Switch | Lighting w/ No Controls | Retail | Other Int. Lighting | New | building | 6,734 | 7.0% | 0.07 | 8 | \$296 | 0% | 0.6 |
| FE-Penelec | Central Lighting Control System | Lighting w/ No Controls | Retail | Other Int. Lighting | Existing | building | 6,734 | 38% | 0.4 | 8 | \$296 | 13% | 3.4 |
| FE-Penelec | Central Lighting Control System | Lighting w/ No Controls | Retail | Other Int. Lighting | New | building | 6,734 | 14% | 0.1 | 8 | \$296 | 13% | 1.3 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 40W Incandescent Bulb | Retail | Other Int. Lighting | Early | lamp | 167 | 87% | 0.04 | 9 | \$30 | 14% | 2.5 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Retail | Other Int. Lighting | Early | lamp | 119 | 81% | 0.03 | 9 | \$30 | 11% | 1.7 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Retail | Other Int. Lighting | New | lamp | 91 | 81% | 0.02 | 9 | \$21 | 14% | 1.8 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Retail | Other Int. Lighting | New | lamp | 91 | 81% | 0.02 | 9 | \$23 | 14% | 1.7 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|--|---------|---------------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Retail | Other Int. Lighting | New | lamp | 91 | 81% | 0.02 | 9 | \$22 | 11% | 1.7 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Retail | Other Int. Lighting | ROB | lamp | 119 | 81% | 0.03 | 9 | \$21 | 14% | 2.4 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Retail | Other Int. Lighting | ROB | lamp | 119 | 81% | 0.03 | 9 | \$23 | 14% | 2.2 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Retail | Other Int. Lighting | ROB | lamp | 119 | 81% | 0.03 | 9 | \$22 | 11% | 2.3 |
| FE-Penelec | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Retail | Other Int. Lighting | Early | lamp | 167 | 75% | 0.03 | 3 | \$73 | 39% | 0.3 |
| FE-Penelec | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Retail | Other Int. Lighting | New | fixture | 181 | 65% | 0.03 | 13 | \$29 | 46% | 2.9 |
| FE-Penelec | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Retail | Other Int. Lighting | New | lamp | 91 | 65% | 0.02 | 3 | \$29 | 46% | 0.4 |
| FE-Penelec | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Retail | Other Int. Lighting | ROB | fixture | 239 | 65% | 0.04 | 13 | \$29 | 39% | 3.8 |
| FE-Penelec | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Retail | Other Int. Lighting | ROB | lamp | 119 | 65% | 0.02 | 3 | \$29 | 39% | 0.6 |
| FE-Penelec | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Retail | Other Int. Lighting | Early | lamp | 167 | 75% | 0.03 | 3 | \$3.2 | 24% | 8.0 |
| FE-Penelec | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Retail | Other Int. Lighting | New | lamp | 91 | 65% | 0.02 | 3 | \$1.8 | 24% | 6.8 |
| FE-Penelec | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Retail | Other Int. Lighting | ROB | lamp | 119 | 65% | 0.02 | 3 | \$1.8 | 24% | 8.9 |
| FE-Penelec | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Retail | Other Int. Lighting | ROB | lamp | 119 | 65% | 0.02 | 3 | \$1.8 | 24% | 8.9 |
| FE-Penelec | Exit Sign Retrofit: CFL replacing Incandescent | One 23W Single Sided Incandescent Exit Sign | Retail | Other Int. Lighting | Early | exit sign | 130 | 42% | 0.01 | 15 | \$48 | 22% | 0.8 |
| FE-Penelec | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Retail | Other Int. Lighting | New | building | 6,734 | 10% | 0.1 | 15 | \$29,254 | 32% | 0.0 |
| FE-Penelec | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Retail | Other Int. Lighting | New | building | 6,734 | 15% | 0.2 | 15 | \$73,134 | 32% | 0.0 |
| FE-Penelec | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Retail | Other Int. Lighting | New | building | 6,734 | 30% | 0.3 | 15 | \$104,825 | 32% | 0.0 |
| FE-Penelec | Indoor Daylight Sensors | Lighting w/ No Controls | Retail | Other Int. Lighting | Existing | building | 6,734 | 28% | 0.3 | 8 | \$1,459 | 13% | 0.5 |
| FE-Penelec | Indoor Daylight Sensors | Lighting w/ No Controls | Retail | Other Int. Lighting | New | building | 6,734 | 4.1% | 0.04 | 8 | \$1,459 | 0% | 0.1 |
| FE-Penelec | LED Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Retail | Other Int. Lighting | Early | sign | 153 | 87% | 0.02 | 15 | \$48 | 16% | 1.8 |
| FE-Penelec | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Retail | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 2.0 |
| FE-Penelec | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Retail | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 2.0 |
| FE-Penelec | LED Task Lighting/Screw-In | 1 15W CFL bulb | Retail | Other Int. Lighting | Early | lamp | 34 | 33% | 0.00 | 10 | \$9.6 | 24% | 0.7 |
| FE-Penelec | LED Task Lighting/Screw-In | 1 60W Incandescent Bulb | Retail | Other Int. Lighting | Early | lamp | 136 | 83% | 0.03 | 10 | \$9.6 | 24% | 6.8 |
| FE-Penelec | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Retail | Other Int. Lighting | New | lamp | 74 | 77% | 0.02 | 10 | \$7.9 | 24% | 4.1 |
| FE-Penelec | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Retail | Other Int. Lighting | New | lamp | 74 | 77% | 0.02 | 10 | \$7.9 | 24% | 4.1 |
| FE-Penelec | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Retail | Other Int. Lighting | ROB | lamp | 98 | 77% | 0.02 | 10 | \$7.9 | 24% | 5.4 |
| FE-Penelec | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Retail | Other Int. Lighting | ROB | lamp | 98 | 77% | 0.02 | 10 | \$7.9 | 24% | 5.4 |
| FE-Penelec | Occupancy Sensor | Lighting w/ No Controls | Retail | Other Int. Lighting | Existing | building | 6,734 | 24% | 0.2 | 8 | \$447 | 12% | 1.4 |
| FE-Penelec | Occupancy Sensor | Lighting w/ No Controls | Retail | Other Int. Lighting | New | building | 6,734 | 7.0% | 0.07 | 8 | \$447 | 0% | 0.4 |
| FE-Penelec | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Retail | Other Int. Lighting | Existing | building | 6,734 | 28% | 0.3 | 8 | \$1,459 | 12% | 0.5 |
| FE-Penelec | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Retail | Other Int. Lighting | New | building | 6,734 | 4.1% | 0.04 | 8 | \$1,459 | 0% | 0.1 |
| FE-Penelec | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Retail | Other Int. Lighting | Early | exit sign | 130 | 100% | 0.02 | 15 | \$173 | 26% | 0.5 |
| FE-Penelec | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Retail | Other Int. Lighting | New | exit sign | 75 | 100% | 0.01 | 15 | \$148 | 31% | 0.3 |
| FE-Penelec | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Retail | Other Int. Lighting | ROB | exit sign | 75 | 100% | 0.01 | 15 | \$148 | 26% | 0.3 |
| FE-Penelec | Time Clock Control | Lighting w/ No Controls | Retail | Other Int. Lighting | Existing | building | 6,734 | 28% | 0.3 | 8 | \$296 | 13% | 2.5 |
| FE-Penelec | Time Clock Control | Lighting w/ No Controls | Retail | Other Int. Lighting | New | building | 6,734 | 4.1% | 0.04 | 8 | \$296 | 0% | 0.4 |
| FE-Penelec | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Retail | Plug Load | Existing | building | 909 | 46% | 0.5 | 5 | \$189 | 4% | 1.4 |
| FE-Penelec | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Retail | Plug Load | New | building | 909 | 46% | 0.5 | 5 | \$189 | 4% | 1.4 |
| FE-Penelec | Data Center - Server/Storage Consolidation | No Consolidation | Retail | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penelec | Data Center - Server/Storage Consolidation | No Consolidation | Retail | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penelec | Data Center - Server/Storage Virtualization | No Virtualization | Retail | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penelec | Data Center - Server/Storage Virtualization | No Virtualization | Retail | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penelec | Energy Star - Scanners | Std Scanner | Retail | Plug Load | New | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| FE-Penelec | Energy Star - Scanners | Std Scanner | Retail | Plug Load | ROB | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| FE-Penelec | Energy Star Battery Charging System (for small cordless products) | Std. Battery Charging System | Retail | Plug Load | ROB | measure | 593 | 2.3% | 0.1 | 5 | \$65 | 4% | 0.7 |
| FE-Penelec | Energy Star Dishwasher | Existing Dishwasher units | Retail | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,550 | 1% | 1.0 |
| FE-Penelec | Energy Star Dishwasher | Standard Dishwasher unit | Retail | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,003 | 1% | 3.5 |
| FE-Penelec | Energy Star Dishwasher | Standard Dishwasher unit | Retail | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,003 | 1% | 3.5 |
| FE-Penelec | Energy Star External Power Adapter | Std. Power Adapter | Retail | Plug Load | New | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| FE-Penelec | Energy Star External Power Adapter | Std. Power Adapter | Retail | Plug Load | ROB | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| FE-Penelec | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Retail | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 17% | 0.2 |
| FE-Penelec | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Retail | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.0 |
| FE-Penelec | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Retail | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.0 |
| FE-Penelec | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Retail | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 9% | 0.8 |
| FE-Penelec | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Retail | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.7 |
| FE-Penelec | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Retail | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.7 |
| FE-Penelec | ENERGY STAR® Copiers | 10% Less Efficient Copier | Retail | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 18% | 0.0 |
| FE-Penelec | ENERGY STAR® Copiers | One Conventional Copier | Retail | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| FE-Penelec | ENERGY STAR® Copiers | One Conventional Copier | Retail | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| FE-Penelec | ENERGY STAR® desktop | Standard computer | Retail | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 69% | 0.1 |
| FE-Penelec | ENERGY STAR® desktop | Standard computer | Retail | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.3 |
| FE-Penelec | ENERGY STAR® desktop | Standard computer | Retail | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.3 |
| FE-Penelec | ENERGY STAR® Fax | 10% Less Efficient Fax | Retail | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 15% | 0.0 |
| FE-Penelec | ENERGY STAR® Fax | One Conventional Fax | Retail | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| FE-Penelec | ENERGY STAR® Fax | One Conventional Fax | Retail | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| FE-Penelec | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Retail | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 70% | 0.0 |
| FE-Penelec | ENERGY STAR® Monitors | One Conventional Monitor | Retail | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| FE-Penelec | ENERGY STAR® Monitors | One Conventional Monitor | Retail | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|---|---------|---------------|----------|-------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | ENERGY STAR® Printers | 10% Less Efficient Printer | Retail | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 44% | 0.0 |
| FE-Penelec | ENERGY STAR® Printers | One Conventional Printer | Retail | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| FE-Penelec | ENERGY STAR® Printers | One Conventional Printer | Retail | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| FE-Penelec | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Retail | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 43% | 0.1 |
| FE-Penelec | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Retail | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.7 |
| FE-Penelec | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Retail | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.7 |
| FE-Penelec | ENERGY STAR® Televisions | 10% Less Efficient Television | Retail | Plug Load | Early | Unit | 228 | 38% | 0.02 | 6 | \$672 | 40% | 0.0 |
| FE-Penelec | ENERGY STAR® Televisions | One Conventional Television | Retail | Plug Load | New | Unit | 207 | 32% | 0.02 | 6 | \$206 | 40% | 0.1 |
| FE-Penelec | ENERGY STAR® Televisions | One Conventional Television | Retail | Plug Load | ROB | Unit | 207 | 32% | 0.02 | 6 | \$206 | 40% | 0.1 |
| FE-Penelec | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Retail | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 24% | 0.3 |
| FE-Penelec | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Retail | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.6 |
| FE-Penelec | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Retail | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.6 |
| FE-Penelec | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Retail | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.3 |
| FE-Penelec | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Retail | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.3 |
| FE-Penelec | Network PC Power Management | No PC Power Management | Retail | Plug Load | Existing | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 6.8 |
| FE-Penelec | Network PC Power Management | No PC Power Management | Retail | Plug Load | New | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 6.8 |
| FE-Penelec | Smart Strip Plug Outlets | Standard plug strip/outlet | Retail | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.4 |
| FE-Penelec | Smart Strip Plug Outlets | Standard plug strip/outlet | Retail | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.4 |
| FE-Penelec | Smart Strip Plug Outlets | Standard plug strip/outlet | Retail | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Penelec | Smart Strip Plug Outlets | Standard plug strip/outlet | Retail | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Penelec | Smart Strip Plug Outlets | Standard plug strip/outlet | Retail | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Penelec | Smart Strip Plug Outlets | Standard plug strip/outlet | Retail | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Penelec | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Retail | Plug Load | Existing | building | 909 | 46% | 0.5 | 5 | \$180 | 3% | 1.5 |
| FE-Penelec | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Retail | Plug Load | New | building | 909 | 46% | 0.5 | 5 | \$180 | 3% | 1.5 |
| FE-Penelec | Air curtain technology | Strip plastic curtain | Retail | Refrigeration | New | building | 6,197 | 6.8% | 0.07 | 8 | \$735 | 35% | 0.2 |
| FE-Penelec | Air curtain technology | Strip plastic curtain | Retail | Refrigeration | New | building | 3,605 | 6.8% | 0.07 | 8 | \$740 | 35% | 0.2 |
| FE-Penelec | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Retail | Refrigeration | Existing | building | 1,014 | 7.7% | 0.08 | 12 | \$70 | 11% | 1.3 |
| FE-Penelec | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Retail | Refrigeration | New | building | 1,014 | 7.7% | 0.08 | 12 | \$70 | 11% | 1.3 |
| FE-Penelec | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Retail | Refrigeration | Existing | building | 1,014 | 9.7% | 0.10 | 12 | \$70 | 11% | 1.7 |
| FE-Penelec | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Retail | Refrigeration | New | building | 1,014 | 9.7% | 0.10 | 12 | \$70 | 11% | 1.7 |
| FE-Penelec | Auto Closer on Refrigerator Door | Door w/out Autocloser | Retail | Refrigeration | Existing | building | 3,605 | 31% | 0.3 | 8 | \$963 | 40% | 0.5 |
| FE-Penelec | Auto Closer on Refrigerator Door | Door w/out Autocloser | Retail | Refrigeration | Existing | building | 6,197 | 13% | 0.1 | 8 | \$728 | 40% | 0.4 |
| FE-Penelec | Auto Closer on Refrigerator Door | Door w/out Autocloser | Retail | Refrigeration | New | building | 3,605 | 31% | 0.3 | 8 | \$963 | 40% | 0.5 |
| FE-Penelec | Auto Closer on Refrigerator Door | Door w/out Autocloser | Retail | Refrigeration | New | building | 6,197 | 13% | 0.1 | 8 | \$728 | 40% | 0.4 |
| FE-Penelec | Demand Hot Gas Defrost | Base Refrigeration System | Retail | Refrigeration | Existing | measure | 1,014 | 3.0% | 0.03 | 10 | \$1,318 | 0% | 0.0 |
| FE-Penelec | Demand Hot Gas Defrost | Base Refrigeration System | Retail | Refrigeration | New | measure | 1,014 | 3.0% | 0.03 | 10 | \$1,318 | 0% | 0.0 |
| FE-Penelec | Door Gasket- Freezer | Door w/out Gasket | Retail | Refrigeration | Existing | building | 3,605 | 17% | 0.2 | 4 | \$99 | 29% | 1.6 |
| FE-Penelec | Door Gasket- Freezer | Door w/out Gasket | Retail | Refrigeration | New | building | 3,605 | 11% | 0.1 | 4 | \$99 | 29% | 1.0 |
| FE-Penelec | Door Gasket- Refrigerator | Door w/out Gasket | Retail | Refrigeration | Existing | building | 6,197 | 4.1% | 0.04 | 4 | \$101 | 45% | 0.5 |
| FE-Penelec | Door Gasket- Refrigerator | Door w/out Gasket | Retail | Refrigeration | New | building | 6,197 | 4.1% | 0.04 | 4 | \$101 | 45% | 0.5 |
| FE-Penelec | Economizer for Walk-in Coolers | No Economizer | Retail | Refrigeration | Early | measure | 11,267 | 6.6% | 0.1 | 10 | \$131 | 72% | 2.5 |
| FE-Penelec | Economizer for Walk-in Coolers | No Economizer | Retail | Refrigeration | Early | measure | 11,267 | 6.6% | 0.1 | 10 | \$131 | 72% | 2.5 |
| FE-Penelec | Economizer for Walk-in Coolers | No Economizer | Retail | Refrigeration | Early | measure | 11,267 | 6.6% | 0.1 | 10 | \$131 | 72% | 2.5 |
| FE-Penelec | Economizer for Walk-in Coolers | No Economizer | Retail | Refrigeration | New | measure | 11,267 | 6.6% | 0.1 | 10 | \$15 | 72% | 21.6 |
| FE-Penelec | Economizer for Walk-in Coolers | No Economizer | Retail | Refrigeration | New | measure | 11,267 | 6.6% | 0.1 | 10 | \$15 | 72% | 21.6 |
| FE-Penelec | Economizer for Walk-in Coolers | No Economizer | Retail | Refrigeration | New | measure | 11,267 | 6.6% | 0.1 | 10 | \$15 | 72% | 21.6 |
| FE-Penelec | Economizer for Walk-in Coolers | No Economizer | Retail | Refrigeration | ROB | measure | 11,267 | 6.6% | 0.1 | 10 | \$15 | 72% | 21.6 |
| FE-Penelec | Economizer for Walk-in Coolers | No Economizer | Retail | Refrigeration | ROB | measure | 11,267 | 6.6% | 0.1 | 10 | \$15 | 72% | 21.6 |
| FE-Penelec | Economizer for Walk-in Coolers | No Economizer | Retail | Refrigeration | ROB | measure | 11,267 | 6.6% | 0.1 | 10 | \$15 | 72% | 21.6 |
| FE-Penelec | eCube | Refrigeration unit w/out eCube | Retail | Refrigeration | Existing | building | 6,197 | 15% | 0.2 | 15 | \$413 | 57% | 1.5 |
| FE-Penelec | eCube | Refrigeration unit w/out eCube | Retail | Refrigeration | New | building | 6,197 | 15% | 0.2 | 15 | \$413 | 57% | 1.5 |
| FE-Penelec | Efficient compressor motor | Base Refrigeration System - Grocery | Retail | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.6 |
| FE-Penelec | Efficient compressor motor | Base Refrigeration System - Grocery | Retail | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.6 |
| FE-Penelec | Efficient compressor motor | Base Refrigeration System - Grocery | Retail | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.6 |
| FE-Penelec | Efficient compressor motor | Base Refrigeration System - Grocery | Retail | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.6 |
| FE-Penelec | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Retail | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.5 |
| FE-Penelec | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Retail | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| FE-Penelec | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Retail | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| FE-Penelec | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Retail | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.3 |
| FE-Penelec | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Retail | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.7 |
| FE-Penelec | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Retail | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.7 |
| FE-Penelec | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Retail | Refrigeration | Existing | building | 6,197 | 1.5% | 0.02 | 10 | \$369 | 77% | 0.1 |
| FE-Penelec | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Retail | Refrigeration | New | building | 6,197 | 1.5% | 0.02 | 10 | \$369 | 77% | 0.1 |
| FE-Penelec | Floating head pressure controller | System w/out FHPC | Retail | Refrigeration | Existing | building | 3,605 | 6.2% | 0.02 | 15 | \$8,682 | 41% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|--|---|---------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Floating head pressure controller | System w/out FHPC | Retail | Refrigeration | Existing | building | 1,014 | 9.2% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penelec | Floating head pressure controller | System w/out FHPC | Retail | Refrigeration | Existing | building | 6,197 | 1.2% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penelec | Floating head pressure controller | System w/out FHPC | Retail | Refrigeration | New | building | 3,605 | 6.2% | 0.02 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penelec | Floating head pressure controller | System w/out FHPC | Retail | Refrigeration | New | building | 1,014 | 9.2% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penelec | Floating head pressure controller | System w/out FHPC | Retail | Refrigeration | New | building | 6,197 | 1.2% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penelec | High Efficiency Commercial Freezer | Std. Commercial Freezer | Retail | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 86% | 0.3 |
| FE-Penelec | High Efficiency Commercial Freezer | Std. Commercial Freezer | Retail | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 3.8 |
| FE-Penelec | High Efficiency Commercial Freezer | Std. Commercial Freezer | Retail | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 3.8 |
| FE-Penelec | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Retail | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 2% | 0.1 |
| FE-Penelec | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Retail | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.8 |
| FE-Penelec | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Retail | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.8 |
| FE-Penelec | High Efficiency Ice Maker | Exisiting Standard Efficiency Ice Maker in Pennsylvania | Retail | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 73% | 0.1 |
| FE-Penelec | High Efficiency Ice Maker | Standard code minimum Ice Maker | Retail | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| FE-Penelec | High Efficiency Ice Maker | Standard code minimum Ice Maker | Retail | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| FE-Penelec | High Efficiency Ice Making Head | Standard Ice Making Head | Retail | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.7 |
| FE-Penelec | High Efficiency Ice Making Head | Standard Ice Making Head | Retail | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.7 |
| FE-Penelec | High R-Value Glass Doors | Base Refrigeration System - Grocery | Retail | Refrigeration | Existing | building | 1,014 | 0.7% | 0.01 | 10 | \$17 | 0% | 0.4 |
| FE-Penelec | High R-Value Glass Doors | Base Refrigeration System - Grocery | Retail | Refrigeration | New | building | 1,014 | 0.7% | 0.01 | 10 | \$17 | 0% | 0.4 |
| FE-Penelec | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Retail | Refrigeration | Early | Fixture | 373 | 56% | 0.02 | 8 | \$448 | 47% | 0.2 |
| FE-Penelec | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Retail | Refrigeration | New | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 47% | 0.3 |
| FE-Penelec | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Retail | Refrigeration | ROB | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 47% | 0.3 |
| FE-Penelec | No-heat glass doors | Standard low-temp reach-in | Retail | Refrigeration | Existing | building | 1,014 | 20% | 0.2 | 10 | \$1,524 | 8% | 0.1 |
| FE-Penelec | No-heat glass doors | Standard low-temp reach-in | Retail | Refrigeration | New | building | 1,014 | 20% | 0.2 | 10 | \$1,524 | 8% | 0.1 |
| FE-Penelec | Quick acting freezer doors | Std. Freezer Doors | Retail | Refrigeration | Existing | building | 3,605 | 13% | 0.1 | 10 | \$893 | 56% | 0.3 |
| FE-Penelec | Quick acting freezer doors | Std. Freezer Doors | Retail | Refrigeration | New | building | 3,605 | 13% | 0.1 | 10 | \$893 | 56% | 0.3 |
| FE-Penelec | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Retail | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 30% | 0.4 |
| FE-Penelec | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Retail | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.5 |
| FE-Penelec | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Retail | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.5 |
| FE-Penelec | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 30% | 1.6 |
| FE-Penelec | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 2.8 |
| FE-Penelec | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 2.8 |
| FE-Penelec | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 30% | 1.6 |
| FE-Penelec | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 3.8 |
| FE-Penelec | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 3.8 |
| FE-Penelec | Refrigeration Commissioning | Non-commissioned refrigeration system | Retail | Refrigeration | Existing | building | 11,267 | 9.5% | 0.10 | 3 | \$1,199 | 85% | 0.1 |
| FE-Penelec | Refrigeration Commissioning | Non-commissioned refrigeration system | Retail | Refrigeration | New | building | 11,267 | 9.5% | 0.10 | 3 | \$1,199 | 85% | 0.1 |
| FE-Penelec | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Retail | Refrigeration | Existing | building | 3,605 | 40% | 0.4 | 4 | \$120 | 22% | 3.0 |
| FE-Penelec | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Retail | Refrigeration | Existing | building | 6,197 | 5.7% | 0.06 | 4 | \$122 | 22% | 0.6 |
| FE-Penelec | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Retail | Refrigeration | New | building | 3,605 | 40% | 0.4 | 4 | \$120 | 22% | 3.0 |
| FE-Penelec | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Retail | Refrigeration | New | building | 6,197 | 5.7% | 0.06 | 4 | \$122 | 22% | 0.6 |
| FE-Penelec | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Retail | Refrigeration | Existing | building | 3,605 | 5.6% | 0.06 | 11 | \$127 | 79% | 0.9 |
| FE-Penelec | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Retail | Refrigeration | New | building | 3,605 | 5.6% | 0.06 | 11 | \$127 | 79% | 0.9 |
| FE-Penelec | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Retail | Refrigeration | Existing | building | 6,197 | 4.3% | 0.04 | 11 | \$127 | 79% | 1.0 |
| FE-Penelec | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Retail | Refrigeration | New | building | 6,197 | 4.3% | 0.04 | 11 | \$127 | 79% | 1.0 |
| FE-Penelec | Vendor Miser | No Vendor Miser | Retail | Refrigeration | Existing | machine | 451 | 12% | 0.1 | 8 | \$45 | 7% | 2.0 |
| FE-Penelec | Vertical Night Covers | Display cases w/out night covers-High Temperature | Retail | Refrigeration | Existing | building | 1,014 | 0.6% | 0.01 | 5 | \$56 | 9% | 0.1 |
| FE-Penelec | Vertical Night Covers | Display cases w/out night covers-High Temperature | Retail | Refrigeration | New | building | 1,014 | 0.6% | 0.01 | 5 | \$56 | 9% | 0.1 |
| FE-Penelec | VSD Controlled Compressor | Compressor w/out VSD | Retail | Refrigeration | Early | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |
| FE-Penelec | VSD Controlled Compressor | Compressor w/out VSD | Retail | Refrigeration | New | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |
| FE-Penelec | VSD Controlled Compressor | Compressor w/out VSD | Retail | Refrigeration | ROB | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |
| FE-Penelec | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Retail | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$269 | 35% | 0.9 |
| FE-Penelec | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Retail | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$269 | 35% | 0.8 |
| FE-Penelec | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Retail | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.0 |
| FE-Penelec | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Retail | Refrigeration | New | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 2.9 |
| FE-Penelec | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Retail | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.0 |
| FE-Penelec | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Retail | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 2.9 |
| FE-Penelec | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 35% | 2.3 |
| FE-Penelec | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 35% | 2.2 |
| FE-Penelec | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 4.9 |
| FE-Penelec | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.6 |
| FE-Penelec | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 4.9 |
| FE-Penelec | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.6 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Retail | Space Heating | Existing | building | 18,189 | 7.1% | 0.07 | 6 | \$14,590 | 82% | 0.0 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Retail | Space Heating | New | building | 18,189 | 7.1% | 0.07 | 6 | \$14,590 | 82% | 0.0 |
| FE-Penelec | Adding window shade film | No shade film | Retail | Space Heating | Existing | building | 18,189 | 1.3% | 0.4 | 10 | \$221 | 13% | 1.5 |
| FE-Penelec | Adding window shade film | No shade film | Retail | Space Heating | New | building | 18,189 | 1.3% | 0.4 | 10 | \$221 | 13% | 1.5 |
| FE-Penelec | Adding window shade screen | No shade screen | Retail | Space Heating | Existing | building | 18,189 | 1.1% | 0.01 | 10 | \$86 | 13% | 0.9 |
| FE-Penelec | Adding window shade screen | No shade screen | Retail | Space Heating | New | building | 18,189 | 1.1% | 0.01 | 10 | \$86 | 13% | 0.9 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|--|---|---------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Automated control system | Manual Controls | Retail | Space Heating | Existing | building | 18,189 | 17% | 0.2 | 15 | \$19,913 | 51% | 0.1 |
| FE-Penelec | Automated control system | Manual Controls | Retail | Space Heating | New | building | 18,189 | 17% | 0.2 | 15 | \$19,913 | 94% | 0.1 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Retail | Space Heating | Existing | building | 18,189 | 4.9% | 0.05 | 15 | \$19,662 | 71% | 0.0 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Retail | Space Heating | New | building | 18,189 | 1.6% | 0.02 | 15 | \$18,689 | 94% | 0.0 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Retail | Space Heating | Existing | building | 18,189 | 1.4% | 0.04 | 15 | \$144 | 20% | 1.1 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Retail | Space Heating | New | building | 18,189 | 1.4% | 0.04 | 15 | \$144 | 10% | 1.1 |
| FE-Penelec | Efficient Unit Heating System | Existing Unit Heaters in PA | Retail | Space Heating | Early | heater | 26,716 | 23% | 0.05 | 15 | \$3,289 | 83% | 0.9 |
| FE-Penelec | Efficient Unit Heating System | Std. Unit Heater | Retail | Space Heating | New | heater | 23,710 | 13% | 0.02 | 15 | \$1,991 | 83% | 0.8 |
| FE-Penelec | Efficient Unit Heating System | Std. Unit Heater | Retail | Space Heating | ROB | heater | 23,710 | 13% | 0.02 | 15 | \$1,991 | 83% | 0.8 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Retail | Space Heating | Existing | building | 18,189 | 7.1% | 0.07 | 15 | \$80,684 | 25% | 0.0 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Retail | Space Heating | New | building | 18,189 | 7.1% | 0.07 | 15 | \$80,684 | 35% | 0.0 |
| FE-Penelec | Hi Eff HVAC System Design | No HVAC Design | Retail | Space Heating | New | building | 18,189 | 11% | 0.1 | 10 | \$179,491 | 51% | 0.0 |
| FE-Penelec | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Retail | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$76 | 80% | 1.0 |
| FE-Penelec | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Retail | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$76 | 80% | 1.0 |
| FE-Penelec | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Retail | Space Heating | Existing | building | 18,189 | 2.3% | 0.02 | 10 | \$7,735 | 81% | 0.0 |
| FE-Penelec | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Retail | Space Heating | New | building | 18,189 | 2.3% | 0.02 | 10 | \$7,735 | 81% | 0.0 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Retail | Space Heating | Existing | building | 18,189 | 3.6% | 0.04 | 11 | \$286 | 49% | 0.9 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Retail | Space Heating | New | building | 18,189 | 3.1% | 0.03 | 11 | \$146 | 49% | 1.6 |
| FE-Penelec | Re-Commissioning (Existing Construction) | No Re-Commissioning | Retail | Space Heating | Existing | building | 18,189 | 16% | 0.2 | 5 | \$8,051 | 86% | 0.1 |
| FE-Penelec | VFD on Cooling Tower Fan | Motor w/out VFD | Retail | Space Heating | Early | motor | 25,524 | 70% | 3.4 | 15 | \$2,843 | 88% | 4.2 |
| FE-Penelec | VFD on Cooling Tower Fan | Motor w/out VFD | Retail | Space Heating | New | motor | 25,047 | 72% | 3.3 | 15 | \$2,843 | 88% | 4.1 |
| FE-Penelec | VFD on Cooling Tower Fan | Motor w/out VFD | Retail | Space Heating | ROB | motor | 25,047 | 72% | 3.3 | 15 | \$2,843 | 88% | 4.1 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Retail | Space Heating | Existing | building | 18,189 | 8.1% | 0.08 | 15 | \$5,499 | 26% | 0.1 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Retail | Space Heating | New | building | 18,189 | 0.3% | 0.00 | 15 | \$4,218 | 94% | 0.0 |
| FE-Penelec | Green LED Traffic Light | Green Incandescent Traffic Light | Retail | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 0% | 1.2 |
| FE-Penelec | Green LED Traffic Light | Green Incandescent Traffic Light | Retail | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| FE-Penelec | Green LED Traffic Light | Green Incandescent Traffic Light | Retail | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| FE-Penelec | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Retail | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 0% | 3.0 |
| FE-Penelec | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Retail | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-Penelec | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Retail | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-Penelec | Induction Street Lighting | One 100W HPS Street Light Fixture | Retail | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 0% | 0.3 |
| FE-Penelec | Induction Street Lighting | One 100W HPS Street Light Fixture | Retail | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.7 |
| FE-Penelec | Induction Street Lighting | One 100W HPS Street Light Fixture | Retail | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.7 |
| FE-Penelec | LED Street Lighting | One 100W HPS Street Light | Retail | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 0% | 0.2 |
| FE-Penelec | LED Street Lighting | One 100W HPS Street Light | Retail | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-Penelec | LED Street Lighting | One 100W HPS Street Light | Retail | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-Penelec | Red LED Traffic Light | One Red Incandescent Traffic Light | Retail | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 0% | 1.6 |
| FE-Penelec | Red LED Traffic Light | One Red Incandescent Traffic Light | Retail | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| FE-Penelec | Red LED Traffic Light | One Red Incandescent Traffic Light | Retail | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| FE-Penelec | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Retail | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 0% | 0.1 |
| FE-Penelec | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Retail | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-Penelec | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Retail | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-Penelec | Demand controlled Circulating Systems | Constant circulation system | Retail | Water Heating | Existing | building | 6,351 | 20% | 0.2 | 15 | \$1,152 | 59% | 0.7 |
| FE-Penelec | Demand controlled Circulating Systems | Constant circulation system | Retail | Water Heating | New | building | 6,351 | 20% | 0.2 | 15 | \$1,152 | 59% | 0.7 |
| FE-Penelec | Drainwater Heat Recovery Water Heater | No heat recovery | Retail | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.9 |
| FE-Penelec | Drainwater Heat Recovery Water Heater | No heat recovery | Retail | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.9 |
| FE-Penelec | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Retail | Water Heating | Existing | building | 6,351 | 5.9% | 0.06 | 12 | \$14 | 85% | 14.9 |
| FE-Penelec | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Retail | Water Heating | New | building | 6,351 | 5.9% | 0.06 | 12 | \$4.0 | 85% | 52.0 |
| FE-Penelec | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Retail | Water Heating | Early | water heater | 4,077 | 66% | 0.5 | 10 | \$1,187 | 68% | 1.1 |
| FE-Penelec | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Retail | Water Heating | Early | water heater | 4,077 | 66% | 0.5 | 10 | \$1,187 | 68% | 1.1 |
| FE-Penelec | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Retail | Water Heating | New | water heater | 4,077 | 66% | 0.5 | 10 | \$1,187 | 68% | 1.1 |
| FE-Penelec | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Retail | Water Heating | New | water heater | 4,077 | 66% | 0.5 | 10 | \$1,187 | 68% | 1.1 |
| FE-Penelec | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Retail | Water Heating | ROB | water heater | 3,963 | 65% | 0.5 | 10 | \$1,187 | 68% | 1.1 |
| FE-Penelec | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Retail | Water Heating | ROB | water heater | 3,963 | 65% | 0.5 | 10 | \$1,187 | 68% | 1.1 |
| FE-Penelec | Heat Recovery Unit | Base Water Heating | Retail | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.6 |
| FE-Penelec | Heat Recovery Unit | Base Water Heating | Retail | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.6 |
| FE-Penelec | Heat Trap | No Heat Trap | Retail | Water Heating | Existing | building | 6,351 | 22% | 0.2 | 11 | \$43 | 50% | 16.9 |
| FE-Penelec | Heat Trap | No Heat Trap | Retail | Water Heating | New | building | 6,351 | 22% | 0.2 | 11 | \$6.4 | 50% | 113.2 |
| FE-Penelec | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Retail | Water Heating | Early | water heater | 4,077 | 5.9% | 0.04 | 15 | \$307 | 79% | 0.5 |
| FE-Penelec | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Retail | Water Heating | Early | water heater | 4,077 | 5.9% | 0.04 | 15 | \$307 | 79% | 0.5 |
| FE-Penelec | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Retail | Water Heating | New | water heater | 3,963 | 3.2% | 0.02 | 15 | \$307 | 79% | 0.3 |
| FE-Penelec | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Retail | Water Heating | New | water heater | 3,963 | 3.2% | 0.02 | 15 | \$307 | 79% | 0.3 |
| FE-Penelec | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Retail | Water Heating | ROB | water heater | 3,963 | 3.2% | 0.02 | 15 | \$307 | 79% | 0.3 |
| FE-Penelec | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Retail | Water Heating | ROB | water heater | 3,963 | 3.2% | 0.02 | 15 | \$307 | 79% | 0.3 |
| FE-Penelec | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Retail | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$466 | 81% | 39.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|--|---|-----------------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Retail | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 20.4 |
| FE-Penelec | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Retail | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 20.4 |
| FE-Penelec | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Retail | Water Heating | Existing | building | 6,351 | 0.5% | 0.01 | 13 | \$4.8 | 68% | 4.1 |
| FE-Penelec | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Retail | Water Heating | New | building | 6,351 | 0.5% | 0.01 | 13 | \$4.8 | 0% | 4.1 |
| FE-Penelec | Hot Water Circulation Pump Time-Clock | Constant circulation system | Retail | Water Heating | Existing | building | 6,351 | 5.3% | 0.05 | 10 | \$26 | 72% | 6.3 |
| FE-Penelec | Hot Water Circulation Pump Time-Clock | Constant circulation system | Retail | Water Heating | New | building | 6,351 | 5.3% | 0.05 | 10 | \$26 | 72% | 6.3 |
| FE-Penelec | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Retail | Water Heating | Existing | building | 5,843 | 2.3% | 0.02 | 7 | \$22 | 78% | 2.3 |
| FE-Penelec | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Retail | Water Heating | New | building | 5,843 | 2.1% | 0.02 | 7 | \$0.5 | 78% | 91.5 |
| FE-Penelec | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Retail | Water Heating | Existing | building | 6,351 | 3.0% | 0.03 | 5 | \$300 | 0% | 0.2 |
| FE-Penelec | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Retail | Water Heating | New | building | 6,351 | 2.0% | 0.02 | 5 | \$194 | 0% | 0.2 |
| FE-Penelec | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Retail | Water Heating | Existing | building | 6,351 | 6.5% | 0.07 | 9 | \$25 | 2% | 7.3 |
| FE-Penelec | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Retail | Water Heating | New | building | 6,351 | 6.5% | 0.07 | 9 | \$6.0 | 2% | 30.6 |
| FE-Penelec | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Retail | Water Heating | Early | water heater | 4,077 | 52% | 0.2 | 15 | \$6,222 | 32% | 0.2 |
| FE-Penelec | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Retail | Water Heating | New | water heater | 3,963 | 51% | 0.2 | 15 | \$6,222 | 32% | 0.2 |
| FE-Penelec | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Retail | Water Heating | ROB | water heater | 3,963 | 51% | 0.2 | 15 | \$6,222 | 32% | 0.2 |
| FE-Penelec | Ultrasonic Faucet Control | Manual Faucet Control | Retail | Water Heating | Existing | building | 6,351 | 3.0% | 0.03 | 10 | \$1,098 | 77% | 0.1 |
| FE-Penelec | Ultrasonic Faucet Control | Manual Faucet Control | Retail | Water Heating | New | building | 6,351 | 3.0% | 0.03 | 10 | \$1,098 | 77% | 0.1 |
| FE-Penelec | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Retail | Water Heating | Existing | building | 6,351 | 2.2% | 0.02 | 4 | \$28 | 83% | 1.1 |
| FE-Penelec | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Retail | Water Heating | New | building | 6,351 | 2.3% | 0.02 | 4 | \$28 | 83% | 1.2 |
| FE-Penelec | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Street Lighting | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.1 |
| FE-Penelec | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Street Lighting | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.1 |
| FE-Penelec | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Street Lighting | Cooking | Early | steamer | 51 | 46% | 0.00 | 12 | \$5,053 | 81% | 0.0 |
| FE-Penelec | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Street Lighting | Cooking | New | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-Penelec | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Street Lighting | Cooking | ROB | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-Penelec | Electric combination oven (Energy Star) | Standard Oven | Street Lighting | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.9 |
| FE-Penelec | Electric combination oven (Energy Star) | Standard Oven | Street Lighting | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.9 |
| FE-Penelec | Electric Convection Oven | Conventional convection oven w/ 65% efficiency | Street Lighting | Cooking | Early | oven | 8,641 | 37% | 0.6 | 12 | \$4,119 | 81% | 0.4 |
| FE-Penelec | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Street Lighting | Cooking | New | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.7 |
| FE-Penelec | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Street Lighting | Cooking | ROB | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.7 |
| FE-Penelec | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Street Lighting | Cooking | Early | fryer | 6,105 | 23% | 0.3 | 12 | \$9,241 | 86% | 0.1 |
| FE-Penelec | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Street Lighting | Cooking | New | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| FE-Penelec | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Street Lighting | Cooking | ROB | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| FE-Penelec | High Efficiency Griddle (ENERGY STAR) | Efficiency code minimum griddle (70% eff) | Street Lighting | Cooking | Early | griddle | 11,317 | 65% | 1.4 | 12 | \$4,977 | 86% | 0.8 |
| FE-Penelec | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Street Lighting | Cooking | New | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.2 |
| FE-Penelec | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Street Lighting | Cooking | ROB | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.2 |
| FE-Penelec | High Efficiency Induction Cooking | Standard Cooking | Street Lighting | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-Penelec | High Efficiency Induction Cooking | Standard Cooking | Street Lighting | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Street Lighting | Cooling Central | Existing | building | 1,617 | 7.0% | 0.07 | 6 | \$12,715 | 82% | 0.0 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Street Lighting | Cooling Central | New | building | 1,617 | 7.0% | 0.07 | 6 | \$12,715 | 82% | 0.0 |
| FE-Penelec | Adding window shade film | No shade film | Street Lighting | Cooling Central | Existing | building | 1,617 | 1.3% | 0.4 | 10 | \$20 | 13% | 13.6 |
| FE-Penelec | Adding window shade film | No shade film | Street Lighting | Cooling Central | New | building | 1,617 | 1.3% | 0.4 | 10 | \$20 | 13% | 13.6 |
| FE-Penelec | Adding window shade screen | No shade screen | Street Lighting | Cooling Central | Existing | building | 1,617 | 1.1% | 0.01 | 10 | \$7.6 | 13% | 1.8 |
| FE-Penelec | Adding window shade screen | No shade screen | Street Lighting | Cooling Central | New | building | 1,617 | 1.0% | 0.01 | 10 | \$7.6 | 13% | 1.8 |
| FE-Penelec | Automated control system | Manual Controls | Street Lighting | Cooling Central | Existing | building | 1,617 | 17% | 0.2 | 15 | \$1,771 | 51% | 0.2 |
| FE-Penelec | Automated control system | Manual Controls | Street Lighting | Cooling Central | New | building | 1,617 | 17% | 0.2 | 15 | \$1,771 | 94% | 0.2 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Street Lighting | Cooling Central | Existing | building | 1,617 | 6.2% | 0.06 | 15 | \$17,130 | 71% | 0.0 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Street Lighting | Cooling Central | New | building | 1,617 | 2.1% | 0.02 | 15 | \$16,283 | 94% | 0.0 |
| FE-Penelec | Chiller Tuneup/Diagnostics | No tuneup | Street Lighting | Cooling Central | Existing | building | 1,617 | 8.0% | 0.08 | 10 | \$4,130 | 59% | 0.0 |
| FE-Penelec | Chiller Tuneup/Diagnostics | No tuneup | Street Lighting | Cooling Central | New | building | 1,617 | 8.0% | 0.08 | 10 | \$4,130 | 59% | 0.0 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Street Lighting | Cooling Central | Existing | building | 1,617 | 1.4% | 0.04 | 15 | \$13 | 20% | 3.8 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Street Lighting | Cooling Central | New | building | 1,617 | 1.4% | 0.04 | 15 | \$13 | 10% | 3.8 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Street Lighting | Cooling Central | Existing | building | 1,617 | 7.0% | 0.07 | 15 | \$7,174 | 25% | 0.0 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Street Lighting | Cooling Central | New | building | 1,617 | 7.0% | 0.07 | 15 | \$7,174 | 35% | 0.0 |
| FE-Penelec | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | Early | ton | 3,841 | 24% | 0.3 | 15 | \$108,550 | 88% | 0.0 |
| FE-Penelec | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | New | ton | 3,140 | 6.7% | 0.07 | 15 | \$12,927 | 88% | 0.0 |
| FE-Penelec | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | ROB | ton | 3,140 | 6.7% | 0.07 | 15 | \$12,927 | 88% | 0.0 |
| FE-Penelec | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | Early | ton | 5,740 | 23% | 0.5 | 15 | \$140,105 | 88% | 0.0 |
| FE-Penelec | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | New | ton | 4,618 | 4.9% | 0.08 | 15 | \$9,336 | 88% | 0.0 |
| FE-Penelec | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | ROB | ton | 4,618 | 4.9% | 0.08 | 15 | \$9,336 | 88% | 0.0 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | Early | ton | 46,985 | 26% | 4.2 | 15 | \$105,354 | 88% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|--|--|-----------------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | New | ton | 40,938 | 15% | 2.1 | 15 | \$30,530 | 88% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | ROB | ton | 40,938 | 15% | 2.1 | 15 | \$30,530 | 88% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | Early | ton | 70,371 | 23% | 5.6 | 15 | \$154,107 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | New | ton | 64,645 | 16% | 3.6 | 15 | \$27,646 | 88% | 0.3 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | ROB | ton | 70,371 | 23% | 5.6 | 15 | \$27,646 | 88% | 0.5 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | Early | ton | 116,873 | 23% | 9.2 | 15 | \$302,924 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | New | ton | 105,779 | 14% | 5.3 | 15 | \$115,432 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | ROB | ton | 116,873 | 23% | 9.2 | 15 | \$115,432 | 88% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | Early | ton | 140,248 | 23% | 11.0 | 15 | \$350,154 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | New | ton | 126,935 | 14% | 6.4 | 15 | \$120,406 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | ROB | ton | 140,248 | 23% | 11.0 | 15 | \$120,406 | 88% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | Early | ton | 31,087 | 29% | 3.2 | 15 | \$83,632 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | New | ton | 24,139 | 8.9% | 0.8 | 15 | \$40,211 | 88% | 0.0 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | ROB | ton | 31,087 | 29% | 3.2 | 15 | \$40,211 | 88% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | Early | ton | 53,416 | 35% | 6.5 | 15 | \$132,173 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | New | ton | 39,839 | 13% | 1.7 | 15 | \$39,556 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | ROB | ton | 39,839 | 13% | 1.7 | 15 | \$39,556 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | Early | ton | 89,181 | 39% | 12.1 | 15 | \$187,029 | 88% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | New | ton | 63,585 | 15% | 3.2 | 15 | \$33,554 | 88% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | ROB | ton | 89,181 | 39% | 12.1 | 15 | \$33,554 | 88% | 0.9 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | Early | ton | 15,605 | 30% | 1.6 | 15 | \$32,398 | 88% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | New | ton | 12,364 | 11% | 0.5 | 15 | \$7,188 | 88% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | ROB | ton | 15,605 | 30% | 1.6 | 15 | \$7,188 | 88% | 0.6 |
| FE-Penelec | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Street Lighting | Cooling Central | Existing | building | 1,617 | 2.2% | 0.02 | 10 | \$10,066 | 81% | 0.0 |
| FE-Penelec | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Street Lighting | Cooling Central | New | building | 1,617 | 2.2% | 0.02 | 10 | \$10,066 | 81% | 0.0 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Street Lighting | Cooling Central | Existing | building | 1,617 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.1 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Street Lighting | Cooling Central | New | building | 1,617 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.2 |
| FE-Penelec | Re-Commissioning (Existing Construction) | No Re-Commissioning | Street Lighting | Cooling Central | Existing | building | 1,617 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Street Lighting | Cooling Central | Existing | building | 1,617 | 11% | 0.1 | 15 | \$3,285 | 26% | 0.1 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Street Lighting | Cooling Central | New | building | 1,617 | 0.3% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| FE-Penelec | <65k BTU/hr 14 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Street Lighting | Cooling Unitary | Early | ton | 3,025 | 16% | 0.2 | 15 | \$1,545 | 29% | 0.3 |
| FE-Penelec | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Street Lighting | Cooling Unitary | New | ton | 2,740 | 7.1% | 0.08 | 15 | \$339 | 29% | 0.5 |
| FE-Penelec | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Street Lighting | Cooling Unitary | ROB | ton | 2,740 | 7.1% | 0.08 | 15 | \$339 | 29% | 0.5 |
| FE-Penelec | <65k BTU/hr 15 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Street Lighting | Cooling Unitary | Early | ton | 3,025 | 22% | 0.3 | 15 | \$1,821 | 30% | 0.3 |
| FE-Penelec | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Street Lighting | Cooling Unitary | New | ton | 2,740 | 13% | 0.1 | 15 | \$714 | 30% | 0.5 |
| FE-Penelec | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Street Lighting | Cooling Unitary | ROB | ton | 2,740 | 13% | 0.1 | 15 | \$714 | 30% | 0.5 |
| FE-Penelec | <65k BTU/hr 16 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Street Lighting | Cooling Unitary | Early | ton | 3,025 | 26% | 0.3 | 15 | \$2,098 | 31% | 0.3 |
| FE-Penelec | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Street Lighting | Cooling Unitary | New | ton | 2,740 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.4 |
| FE-Penelec | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Street Lighting | Cooling Unitary | ROB | ton | 2,740 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.4 |
| FE-Penelec | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Street Lighting | Cooling Unitary | Early | ton | 76,544 | 3.7% | 1.1 | 15 | \$68,066 | 56% | 0.0 |
| FE-Penelec | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Street Lighting | Cooling Unitary | New | ton | 77,526 | 4.9% | 1.5 | 15 | \$6,231 | 56% | 0.5 |
| FE-Penelec | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Street Lighting | Cooling Unitary | ROB | ton | 77,526 | 4.9% | 1.5 | 15 | \$6,231 | 56% | 0.5 |
| FE-Penelec | 135-240k min 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Street Lighting | Cooling Unitary | Early | ton | 18,834 | 18% | 1.3 | 15 | \$18,135 | 79% | 0.2 |
| FE-Penelec | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Street Lighting | Cooling Unitary | New | ton | 17,133 | 10.0% | 0.7 | 15 | \$1,948 | 79% | 0.8 |
| FE-Penelec | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Street Lighting | Cooling Unitary | ROB | ton | 17,133 | 10.0% | 0.7 | 15 | \$1,948 | 79% | 0.8 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|--|-----------------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | 240k-760k min 11 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Street Lighting | Cooling Unitary | Early | ton | 50,358 | 9.0% | 1.8 | 15 | \$44,809 | 66% | 0.1 |
| FE-Penelec | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Street Lighting | Cooling Unitary | New | ton | 50,484 | 9.3% | 1.8 | 15 | \$4,813 | 66% | 0.9 |
| FE-Penelec | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Street Lighting | Cooling Unitary | ROB | ton | 50,484 | 9.3% | 1.8 | 15 | \$4,813 | 66% | 0.9 |
| FE-Penelec | 65k-135k BTU/hr 12 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Street Lighting | Cooling Unitary | Early | ton | 11,102 | 17% | 0.7 | 15 | \$10,946 | 86% | 0.2 |
| FE-Penelec | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Street Lighting | Cooling Unitary | New | ton | 9,895 | 6.7% | 0.3 | 15 | \$1,392 | 86% | 0.4 |
| FE-Penelec | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Street Lighting | Cooling Unitary | ROB | ton | 9,895 | 6.7% | 0.3 | 15 | \$1,392 | 86% | 0.4 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Street Lighting | Cooling Unitary | Existing | building | 24,175 | 7.0% | 0.07 | 6 | \$12,715 | 82% | 0.0 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Street Lighting | Cooling Unitary | New | building | 24,175 | 7.0% | 0.07 | 6 | \$12,715 | 82% | 0.0 |
| FE-Penelec | Adding window shade film | No shade film | Street Lighting | Cooling Unitary | Existing | building | 24,175 | 1.3% | 0.4 | 10 | \$294 | 12% | 1.3 |
| FE-Penelec | Adding window shade film | No shade film | Street Lighting | Cooling Unitary | New | building | 24,175 | 1.3% | 0.4 | 10 | \$294 | 13% | 1.3 |
| FE-Penelec | Adding window shade screen | No shade screen | Street Lighting | Cooling Unitary | Existing | building | 24,175 | 1.1% | 0.01 | 10 | \$114 | 12% | 0.9 |
| FE-Penelec | Adding window shade screen | No shade screen | Street Lighting | Cooling Unitary | New | building | 24,175 | 1.1% | 0.01 | 10 | \$114 | 13% | 0.9 |
| FE-Penelec | Automated control system | Manual Controls | Street Lighting | Cooling Unitary | Existing | building | 24,175 | 17% | 0.2 | 15 | \$26,466 | 51% | 0.1 |
| FE-Penelec | Automated control system | Manual Controls | Street Lighting | Cooling Unitary | New | building | 24,175 | 17% | 0.2 | 15 | \$26,466 | 94% | 0.1 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Street Lighting | Cooling Unitary | Existing | building | 24,175 | 6.2% | 0.06 | 15 | \$17,130 | 71% | 0.1 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Street Lighting | Cooling Unitary | New | building | 24,175 | 2.1% | 0.02 | 15 | \$16,283 | 94% | 0.0 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Street Lighting | Cooling Unitary | Existing | building | 24,175 | 1.4% | 0.04 | 15 | \$192 | 20% | 1.1 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Street Lighting | Cooling Unitary | New | building | 24,175 | 1.4% | 0.04 | 15 | \$192 | 10% | 1.1 |
| FE-Penelec | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Street Lighting | Cooling Unitary | Existing | building | 13,296 | 13% | 0.1 | 1 | \$127 | 73% | 0.8 |
| FE-Penelec | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Street Lighting | Cooling Unitary | New | building | 13,296 | 13% | 0.1 | 1 | \$127 | 73% | 0.8 |
| FE-Penelec | ECM Motors for split systems | Std Shaded Pole Motor | Street Lighting | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.9 |
| FE-Penelec | ECM Motors for split systems | Std Shaded Pole Motor | Street Lighting | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.9 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Street Lighting | Cooling Unitary | Existing | building | 24,175 | 7.1% | 0.07 | 15 | \$107,237 | 25% | 0.0 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Street Lighting | Cooling Unitary | New | building | 24,175 | 7.1% | 0.07 | 15 | \$107,237 | 35% | 0.0 |
| FE-Penelec | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Street Lighting | Cooling Unitary | Existing | building | 24,175 | 5.0% | 0.05 | 5 | \$225 | 59% | 1.2 |
| FE-Penelec | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Street Lighting | Cooling Unitary | Existing | building | 24,175 | 0.5% | 0.04 | 5 | \$225 | 51% | 0.2 |
| FE-Penelec | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Street Lighting | Cooling Unitary | New | building | 24,175 | 0.4% | 0.04 | 5 | \$135 | 51% | 0.3 |
| FE-Penelec | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Street Lighting | Cooling Unitary | Existing | building | 24,175 | 2.2% | 0.02 | 10 | \$10,818 | 86% | 0.0 |
| FE-Penelec | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Street Lighting | Cooling Unitary | New | building | 24,175 | 2.2% | 0.02 | 10 | \$10,818 | 86% | 0.0 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) | Street Lighting | Cooling Unitary | Existing | building | 24,175 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.7 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Street Lighting | Cooling Unitary | New | building | 24,175 | 1.7% | 0.02 | 11 | \$146 | 49% | 1.2 |
| FE-Penelec | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Street Lighting | Cooling Unitary | Early | unit | 786 | 19% | 0.4 | 15 | \$849 | 85% | 0.5 |
| FE-Penelec | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Street Lighting | Cooling Unitary | New | unit | 794 | 20% | 0.4 | 15 | \$356 | 85% | 1.2 |
| FE-Penelec | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Street Lighting | Cooling Unitary | ROB | unit | 794 | 20% | 0.4 | 15 | \$356 | 85% | 1.2 |
| FE-Penelec | Re-Commissioning (Existing Construction) | No Re-Commissioning | Street Lighting | Cooling Unitary | Existing | building | 24,175 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.1 |
| FE-Penelec | Room AC (w/ louvered sides) | Existing efficiency Room AC in Pennsylvania (2000 Federal Standards) | Street Lighting | Cooling Unitary | Early | ton | 1,097 | 13% | 0.05 | 9 | \$348 | 82% | 0.2 |
| FE-Penelec | Room AC (w/ louvered sides) | Std Room AC (Code Min. Federal Standards) | Street Lighting | Cooling Unitary | New | ton | 994 | 4.5% | 0.02 | 9 | \$17 | 82% | 1.5 |
| FE-Penelec | Room AC (w/ louvered sides) | Std Room AC (Code Min. Federal Standards) | Street Lighting | Cooling Unitary | ROB | ton | 994 | 4.5% | 0.02 | 9 | \$17 | 82% | 1.5 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Street Lighting | Cooling Unitary | Existing | building | 24,175 | 11% | 0.1 | 15 | \$3,285 | 26% | 0.5 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Street Lighting | Cooling Unitary | New | building | 24,175 | 0.3% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| FE-Penelec | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Street Lighting | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 1.1 |
| FE-Penelec | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Street Lighting | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.4 |
| FE-Penelec | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Street Lighting | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.4 |
| FE-Penelec | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Street Lighting | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 0% | 0.2 |
| FE-Penelec | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Street Lighting | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-Penelec | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Street Lighting | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-Penelec | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Street Lighting | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 53% | 0.3 |
| FE-Penelec | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Street Lighting | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 53% | 0.2 |
| FE-Penelec | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Street Lighting | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 53% | 2.8 |
| FE-Penelec | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Street Lighting | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 53% | 2.1 |
| FE-Penelec | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Street Lighting | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 53% | 2.8 |
| FE-Penelec | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Street Lighting | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 53% | 2.1 |
| FE-Penelec | Photocell Controls (Outdoor) | Lighting w/ No Controls | Street Lighting | Ext. Lighting | Existing | building | 408 | 28% | 0.3 | 8 | \$5,088 | 88% | 0.0 |
| FE-Penelec | Photocell Controls (Outdoor) | Lighting w/ No Controls | Street Lighting | Ext. Lighting | New | building | 408 | 28% | 0.3 | 8 | \$5,088 | 0% | 0.0 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Street Lighting | Heat Pump | Existing | building | 2,598 | 6.9% | 0.07 | 6 | \$12,715 | 82% | 0.0 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Street Lighting | Heat Pump | New | building | 2,598 | 6.9% | 0.07 | 6 | \$12,715 | 82% | 0.0 |
| FE-Penelec | Adding window shade film | No shade film | Street Lighting | Heat Pump | Existing | building | 2,598 | 3.9% | 0.4 | 10 | \$32 | 12% | 9.3 |
| FE-Penelec | Adding window shade film | No shade film | Street Lighting | Heat Pump | New | building | 2,598 | 3.9% | 0.4 | 10 | \$32 | 12% | 9.3 |
| FE-Penelec | Adding window shade screen | No shade screen | Street Lighting | Heat Pump | Existing | building | 2,598 | 0.3% | 0.01 | 10 | \$4.1 | 12% | 2.5 |
| FE-Penelec | Adding window shade screen | No shade screen | Street Lighting | Heat Pump | New | building | 2,598 | 0.3% | 0.01 | 10 | \$4.1 | 12% | 2.5 |
| FE-Penelec | Automated control system | Manual Controls | Street Lighting | Heat Pump | Existing | building | 2,598 | 17% | 0.2 | 15 | \$2,845 | 51% | 0.1 |
| FE-Penelec | Automated control system | Manual Controls | Street Lighting | Heat Pump | New | building | 2,598 | 17% | 0.2 | 15 | \$2,845 | 94% | 0.1 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Street Lighting | Heat Pump | Existing | building | 2,598 | 6.2% | 0.06 | 15 | \$17,130 | 71% | 0.0 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Street Lighting | Heat Pump | New | building | 2,598 | 2.1% | 0.02 | 15 | \$16,283 | 94% | 0.0 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Street Lighting | Heat Pump | Existing | building | 2,598 | 4.0% | 0.04 | 15 | \$21 | 12% | 4.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|--|--|-----------------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Street Lighting | Heat Pump | New | building | 2,598 | 4.0% | 0.04 | 15 | \$21 | 6% | 4.3 |
| FE-Penelec | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Street Lighting | Heat Pump | Early | heat pump | 2,289 | 12% | 0.02 | 15 | \$4,070 | 83% | 0.0 |
| FE-Penelec | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Street Lighting | Heat Pump | New | heat pump | 2,182 | 7.8% | 0.01 | 15 | \$1,097 | 83% | 0.1 |
| FE-Penelec | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Street Lighting | Heat Pump | ROB | heat pump | 2,182 | 7.8% | 0.01 | 15 | \$1,097 | 83% | 0.1 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Street Lighting | Heat Pump | Existing | building | 2,598 | 7.0% | 0.07 | 15 | \$11,525 | 25% | 0.0 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Street Lighting | Heat Pump | New | building | 2,598 | 7.0% | 0.07 | 15 | \$11,525 | 35% | 0.0 |
| FE-Penelec | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Street Lighting | Heat Pump | Early | heat pump | 23,080 | 16% | 0.3 | 15 | \$91,117 | 19% | 0.0 |
| FE-Penelec | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Street Lighting | Heat Pump | New | heat pump | 22,288 | 13% | 0.2 | 15 | \$33,927 | 19% | 0.0 |
| FE-Penelec | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Street Lighting | Heat Pump | ROB | heat pump | 22,288 | 13% | 0.2 | 15 | \$33,927 | 19% | 0.0 |
| FE-Penelec | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Street Lighting | Heat Pump | Early | heat pump | 23,080 | 16% | 0.3 | 15 | \$58,356 | 19% | 0.0 |
| FE-Penelec | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Street Lighting | Heat Pump | New | heat pump | 22,288 | 13% | 0.2 | 15 | \$1,167 | 19% | 1.4 |
| FE-Penelec | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Street Lighting | Heat Pump | ROB | heat pump | 22,288 | 13% | 0.2 | 15 | \$1,167 | 19% | 1.4 |
| FE-Penelec | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Street Lighting | Heat Pump | Early | heat pump | 5,997 | 16% | 0.08 | 12 | \$4,298 | 81% | 0.1 |
| FE-Penelec | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Street Lighting | Heat Pump | New | heat pump | 5,732 | 12% | 0.06 | 12 | \$852 | 81% | 0.4 |
| FE-Penelec | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Street Lighting | Heat Pump | ROB | heat pump | 5,732 | 12% | 0.06 | 12 | \$852 | 81% | 0.4 |
| FE-Penelec | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Street Lighting | Heat Pump | Existing | building | 2,598 | 5.0% | 0.01 | 5 | \$90 | 51% | 0.3 |
| FE-Penelec | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Street Lighting | Heat Pump | New | building | 2,598 | 5.0% | 0.01 | 5 | \$90 | 51% | 0.3 |
| FE-Penelec | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Street Lighting | Heat Pump | Existing | building | 2,598 | 2.2% | 0.02 | 10 | \$9,632 | 81% | 0.0 |
| FE-Penelec | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Street Lighting | Heat Pump | New | building | 2,598 | 2.2% | 0.02 | 10 | \$9,632 | 81% | 0.0 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Street Lighting | Heat Pump | Existing | building | 2,598 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.1 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Street Lighting | Heat Pump | New | building | 2,598 | 2.1% | 0.02 | 11 | \$146 | 49% | 0.2 |
| FE-Penelec | Re-Commissioning (Existing Construction) | No Re-Commissioning | Street Lighting | Heat Pump | Existing | building | 2,598 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Street Lighting | Heat Pump | Existing | building | 2,598 | 11% | 0.1 | 15 | \$3,285 | 26% | 0.1 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Street Lighting | Heat Pump | New | building | 2,598 | 0.3% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| FE-Penelec | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Street Lighting | Heat Pump | Early | heat pump | 9,669 | 35% | 0.3 | 15 | \$35,347 | 28% | 0.1 |
| FE-Penelec | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Street Lighting | Heat Pump | New | heat pump | 9,219 | 32% | 0.3 | 15 | \$15,739 | 28% | 0.1 |
| FE-Penelec | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Street Lighting | Heat Pump | ROB | heat pump | 9,219 | 32% | 0.3 | 15 | \$15,739 | 28% | 0.1 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 299 | 9.6% | 0.01 | 13 | \$850 | 39% | 0.0 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Street Lighting | High Bay Lighting | Early | Fixture | 299 | 9.5% | 0.01 | 13 | \$850 | 28% | 0.0 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 461 | 41% | 0.04 | 13 | \$850 | 36% | 0.1 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | New | Fixture | 227 | 9.6% | 0.00 | 13 | \$372 | 39% | 0.0 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Street Lighting | High Bay Lighting | New | Fixture | 211 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | New | Fixture | 350 | 41% | 0.03 | 13 | \$397 | 36% | 0.2 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 299 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.0 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 278 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 461 | 41% | 0.04 | 13 | \$397 | 36% | 0.3 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 580 | 19% | 0.02 | 13 | \$851 | 38% | 0.1 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Street Lighting | High Bay Lighting | Early | Fixture | 587 | 20% | 0.02 | 13 | \$851 | 38% | 0.1 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 1,708 | 73% | 0.2 | 13 | \$851 | 38% | 0.9 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | New | Fixture | 441 | 19% | 0.02 | 13 | \$372 | 38% | 0.1 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | New | Fixture | 1,298 | 73% | 0.2 | 13 | \$383 | 38% | 1.5 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 580 | 19% | 0.02 | 13 | \$372 | 38% | 0.2 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 1,708 | 73% | 0.2 | 13 | \$383 | 38% | 2.0 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 580 | 25% | 0.03 | 13 | \$554 | 29% | 0.2 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Street Lighting | High Bay Lighting | Early | Fixture | 569 | 23% | 0.03 | 13 | \$554 | 28% | 0.1 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 1,708 | 74% | 0.2 | 13 | \$554 | 36% | 1.4 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | New | Fixture | 441 | 25% | 0.02 | 13 | \$75 | 29% | 0.9 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | New | Fixture | 1,298 | 74% | 0.2 | 13 | \$86 | 36% | 7.1 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 580 | 25% | 0.03 | 13 | \$75 | 29% | 1.2 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 1,708 | 74% | 0.2 | 13 | \$86 | 36% | 9.3 |
| FE-Penelec | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Street Lighting | High Bay Lighting | Early | Fixture | 151 | 0.2% | 0.00 | 13 | \$835 | 38% | 0.0 |
| FE-Penelec | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 326 | 54% | 0.03 | 13 | \$835 | 38% | 0.1 |
| FE-Penelec | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | New | Fixture | 248 | 54% | 0.03 | 13 | \$382 | 38% | 0.2 |
| FE-Penelec | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 326 | 54% | 0.03 | 13 | \$382 | 38% | 0.3 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 739 | 18% | 0.03 | 13 | \$487 | 25% | 0.2 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Street Lighting | High Bay Lighting | Early | Fixture | 773 | 22% | 0.03 | 13 | \$487 | 28% | 0.2 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 1,708 | 65% | 0.2 | 13 | \$487 | 36% | 1.4 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | New | Fixture | 562 | 18% | 0.02 | 13 | \$16 | 25% | 4.0 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | New | Fixture | 1,298 | 65% | 0.2 | 13 | \$18 | 36% | 28.6 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 739 | 18% | 0.03 | 13 | \$16 | 25% | 5.2 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 1,708 | 65% | 0.2 | 13 | \$18 | 36% | 37.6 |
| FE-Penelec | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 739 | 1.5% | 0.00 | 13 | \$557 | 19% | 0.0 |
| FE-Penelec | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Street Lighting | High Bay Lighting | Early | Fixture | 761 | 4.3% | 0.01 | 13 | \$557 | 19% | 0.0 |
| FE-Penelec | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 1,708 | 57% | 0.2 | 13 | \$557 | 19% | 1.1 |
| FE-Penelec | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | New | Fixture | 562 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|---|-----------------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | New | Fixture | 1,298 | 57% | 0.1 | 13 | \$88 | 19% | 5.3 |
| FE-Penelec | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 739 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| FE-Penelec | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 1,708 | 57% | 0.2 | 13 | \$88 | 19% | 7.0 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 314 | 29% | 0.01 | 13 | \$492 | 71% | 0.1 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 262 | 15% | 0.01 | 13 | \$492 | 95% | 0.0 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 390 | 43% | 0.02 | 13 | \$492 | 95% | 0.2 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 361 | 38% | 0.02 | 13 | \$492 | 95% | 0.2 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | New | Fixture | 199 | 15% | 0.00 | 13 | \$25 | 95% | 0.7 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | New | Fixture | 296 | 43% | 0.02 | 13 | \$51 | 95% | 1.4 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 262 | 15% | 0.01 | 13 | \$25 | 95% | 0.9 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 390 | 43% | 0.02 | 13 | \$51 | 95% | 1.9 |
| FE-Penelec | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Street Lighting | High Bay Lighting | Early | lamp | 87 | 16% | 0.00 | 12 | \$7.7 | 99% | 1.1 |
| FE-Penelec | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Street Lighting | High Bay Lighting | New | lamp | 52 | 13% | 0.00 | 12 | \$1.6 | 91% | 2.5 |
| FE-Penelec | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Street Lighting | High Bay Lighting | ROB | lamp | 84 | 13% | 0.00 | 12 | \$1.6 | 91% | 4.0 |
| FE-Penelec | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 1,748 | 23% | 0.08 | 13 | \$613 | 5% | 0.4 |
| FE-Penelec | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Street Lighting | High Bay Lighting | Early | Fixture | 1,373 | 1.6% | 0.00 | 13 | \$613 | 28% | 0.0 |
| FE-Penelec | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 3,417 | 60% | 0.4 | 13 | \$613 | 18% | 2.1 |
| FE-Penelec | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | New | Fixture | 1,329 | 23% | 0.06 | 13 | \$96 | 5% | 2.0 |
| FE-Penelec | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 1,748 | 23% | 0.08 | 13 | \$96 | 5% | 2.6 |
| FE-Penelec | Auto Off Time Switch | Lighting w/ No Controls | Street Lighting | High Bay Lighting | Existing | building | 1,097 | 24% | 0.2 | 8 | \$1,034 | 13% | 0.2 |
| FE-Penelec | Auto Off Time Switch | Lighting w/ No Controls | Street Lighting | High Bay Lighting | New | building | 1,097 | 6.9% | 0.07 | 8 | \$1,034 | 0% | 0.1 |
| FE-Penelec | Central Lighting Control System | Lighting w/ No Controls | Street Lighting | High Bay Lighting | Existing | building | 1,097 | 38% | 0.4 | 8 | \$1,034 | 13% | 0.3 |
| FE-Penelec | Central Lighting Control System | Lighting w/ No Controls | Street Lighting | High Bay Lighting | New | building | 1,097 | 14% | 0.1 | 8 | \$1,034 | 13% | 0.1 |
| FE-Penelec | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Street Lighting | High Bay Lighting | New | building | 1,097 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.0 |
| FE-Penelec | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Street Lighting | High Bay Lighting | New | building | 1,097 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |
| FE-Penelec | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Street Lighting | High Bay Lighting | New | building | 1,097 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| FE-Penelec | Indoor Daylight Sensors | Lighting w/ No Controls | Street Lighting | High Bay Lighting | Existing | building | 1,097 | 28% | 0.3 | 8 | \$5,088 | 13% | 0.1 |
| FE-Penelec | Indoor Daylight Sensors | Lighting w/ No Controls | Street Lighting | High Bay Lighting | New | building | 1,097 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| FE-Penelec | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 1,748 | 92% | 0.3 | 13 | \$1,916 | 95% | 0.5 |
| FE-Penelec | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 3,417 | 96% | 0.6 | 13 | \$1,916 | 95% | 1.1 |
| FE-Penelec | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | New | Fixture | 1,329 | 92% | 0.2 | 13 | \$1,468 | 95% | 0.5 |
| FE-Penelec | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | New | Fixture | 2,597 | 96% | 0.5 | 13 | \$1,149 | 95% | 1.4 |
| FE-Penelec | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 1,748 | 92% | 0.3 | 13 | \$1,468 | 95% | 0.7 |
| FE-Penelec | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 3,417 | 96% | 0.6 | 13 | \$1,149 | 95% | 1.8 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 580 | 67% | 0.07 | 13 | \$960 | 95% | 0.3 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 1,708 | 89% | 0.3 | 13 | \$960 | 95% | 1.0 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 469 | 59% | 0.05 | 13 | \$960 | 95% | 0.2 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | New | Fixture | 441 | 67% | 0.06 | 13 | \$480 | 95% | 0.4 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | New | Fixture | 1,298 | 89% | 0.2 | 13 | \$491 | 95% | 1.5 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Street Lighting | High Bay Lighting | New | Fixture | 356 | 59% | 0.04 | 13 | \$406 | 95% | 0.3 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 580 | 67% | 0.07 | 13 | \$480 | 95% | 0.5 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 1,708 | 89% | 0.3 | 13 | \$491 | 95% | 1.9 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 469 | 59% | 0.05 | 13 | \$406 | 95% | 0.4 |
| FE-Penelec | Occupancy Sensor | Lighting w/ No Controls | Street Lighting | High Bay Lighting | Existing | building | 1,097 | 24% | 0.2 | 8 | \$1,558 | 11% | 0.1 |
| FE-Penelec | Occupancy Sensor | Lighting w/ No Controls | Street Lighting | High Bay Lighting | New | building | 1,097 | 6.9% | 0.07 | 8 | \$1,558 | 0% | 0.0 |
| FE-Penelec | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Street Lighting | High Bay Lighting | Existing | building | 1,097 | 28% | 0.3 | 8 | \$5,088 | 11% | 0.1 |
| FE-Penelec | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Street Lighting | High Bay Lighting | New | building | 1,097 | 4.0% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| FE-Penelec | Time Clock Control | Lighting w/ No Controls | Street Lighting | High Bay Lighting | Existing | building | 1,097 | 28% | 0.3 | 8 | \$1,034 | 13% | 0.3 |
| FE-Penelec | Time Clock Control | Lighting w/ No Controls | Street Lighting | High Bay Lighting | New | building | 1,097 | 4.1% | 0.04 | 8 | \$1,034 | 0% | 0.0 |
| FE-Penelec | Auto Off Time Switch | Lighting w/ No Controls | Street Lighting | Lin. Fluor. Lighting | Existing | building | 20,557 | 24% | 0.2 | 8 | \$1,034 | 13% | 1.6 |
| FE-Penelec | Auto Off Time Switch | Lighting w/ No Controls | Street Lighting | Lin. Fluor. Lighting | New | building | 20,557 | 7.0% | 0.07 | 8 | \$1,034 | 0% | 0.5 |
| FE-Penelec | Central Lighting Control System | Lighting w/ No Controls | Street Lighting | Lin. Fluor. Lighting | Existing | building | 20,557 | 38% | 0.4 | 8 | \$1,034 | 12% | 2.6 |
| FE-Penelec | Central Lighting Control System | Lighting w/ No Controls | Street Lighting | Lin. Fluor. Lighting | New | building | 20,557 | 14% | 0.1 | 8 | \$1,034 | 12% | 0.9 |
| FE-Penelec | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Street Lighting | Lin. Fluor. Lighting | New | building | 20,557 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.0 |
| FE-Penelec | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Street Lighting | Lin. Fluor. Lighting | New | building | 20,557 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |
| FE-Penelec | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Street Lighting | Lin. Fluor. Lighting | New | building | 20,557 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| FE-Penelec | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Street Lighting | Lin. Fluor. Lighting | Early | Lamp | 175 | 38% | 0.01 | 12 | \$7.3 | 94% | 5.3 |
| FE-Penelec | Indoor Daylight Sensors | Lighting w/ No Controls | Street Lighting | Lin. Fluor. Lighting | Existing | building | 20,557 | 28% | 0.3 | 8 | \$5,088 | 13% | 0.4 |
| FE-Penelec | Indoor Daylight Sensors | Lighting w/ No Controls | Street Lighting | Lin. Fluor. Lighting | New | building | 20,557 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.1 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | Early | Lamp | 38 | 19% | 0.00 | 15 | \$35 | 94% | 0.1 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 40W T12 Lamp, Magnetic Ballast | Street Lighting | Lin. Fluor. Lighting | Early | Lamp | 83 | 63% | 0.01 | 15 | \$35 | 94% | 1.0 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | Early | Lamp | 46 | 34% | 0.00 | 15 | \$35 | 94% | 0.3 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | Early | Lamp | 45 | 32% | 0.00 | 15 | \$35 | 94% | 0.3 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | New | Lamp | 29 | 19% | 0.00 | 15 | \$28 | 94% | 0.1 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | New | Lamp | 34 | 32% | 0.00 | 15 | \$29 | 94% | 0.3 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | New | Lamp | 35 | 34% | 0.00 | 15 | \$22 | 94% | 0.4 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | New | Lamp | 34 | 32% | 0.00 | 15 | \$29 | 94% | 0.3 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | ROB | Lamp | 38 | 19% | 0.00 | 15 | \$28 | 94% | 0.2 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | ROB | Lamp | 45 | 32% | 0.00 | 15 | \$29 | 94% | 0.4 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | ROB | Lamp | 46 | 34% | 0.00 | 15 | \$22 | 94% | 0.5 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | ROB | Lamp | 45 | 32% | 0.00 | 15 | \$29 | 94% | 0.4 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|--|-----------------|---------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Street Lighting | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 23.5 |
| FE-Penelec | Escalator Motor Controller | Constant power control | Street Lighting | Motors | New | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 45% | 5.9 |
| FE-Penelec | Escalator Motor Controller | Constant power control | Street Lighting | Motors | ROB | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 45% | 5.9 |
| FE-Penelec | Variable Speed Drive Control, 15HP | Existing Motors w/out VSD Drive | Street Lighting | Motors | Early | motor | 47,265 | 70% | 4.9 | 15 | \$731 | 86% | 30.2 |
| FE-Penelec | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Street Lighting | Motors | New | motor | 46,249 | 72% | 4.9 | 15 | \$731 | 86% | 30.3 |
| FE-Penelec | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Street Lighting | Motors | ROB | motor | 46,249 | 72% | 4.9 | 15 | \$731 | 86% | 30.3 |
| FE-Penelec | Variable Speed Drive Control, 40HP | Existing Motors w/out VSD Drive | Street Lighting | Motors | Early | motor | 123,331 | 71% | 12.8 | 15 | \$4,666 | 86% | 12.5 |
| FE-Penelec | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Street Lighting | Motors | New | motor | 121,889 | 72% | 12.8 | 15 | \$4,666 | 86% | 12.5 |
| FE-Penelec | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Street Lighting | Motors | ROB | motor | 121,889 | 72% | 12.8 | 15 | \$4,666 | 86% | 12.5 |
| FE-Penelec | Variable Speed Drive Control, 5HP | Existing Motors w/out VFD Drive | Street Lighting | Motors | Early | motor | 16,385 | 70% | 1.7 | 15 | \$2,243 | 86% | 3.4 |
| FE-Penelec | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Street Lighting | Motors | New | motor | 16,019 | 72% | 1.7 | 15 | \$2,243 | 86% | 3.4 |
| FE-Penelec | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Street Lighting | Motors | ROB | motor | 16,019 | 72% | 1.7 | 15 | \$2,243 | 86% | 3.4 |
| FE-Penelec | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Street Lighting | Motors | Early | motor | 4,943 | 23% | 0.1 | 15 | \$268 | 13% | 2.6 |
| FE-Penelec | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Street Lighting | Motors | New | motor | 4,943 | 23% | 0.1 | 15 | \$268 | 13% | 2.6 |
| FE-Penelec | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Street Lighting | Motors | ROB | motor | 4,943 | 23% | 0.1 | 15 | \$268 | 13% | 2.6 |
| FE-Penelec | VFD on Chilled Water Pump | Motor w/out VFD Drive | Street Lighting | Motors | Early | motor | 15,151 | 54% | 1.1 | 15 | \$2,903 | 86% | 1.8 |
| FE-Penelec | VFD on Chilled Water Pump | Motor w/out VFD Drive | Street Lighting | Motors | New | motor | 14,867 | 55% | 1.1 | 15 | \$2,843 | 86% | 1.8 |
| FE-Penelec | VFD on Chilled Water Pump | Motor w/out VFD Drive | Street Lighting | Motors | ROB | motor | 14,867 | 55% | 1.1 | 15 | \$2,843 | 86% | 1.8 |
| FE-Penelec | VFD on Condenser Water Pump | Motor w/out VFD Drive | Street Lighting | Motors | Early | motor | 15,040 | 32% | 0.6 | 15 | \$2,903 | 86% | 1.1 |
| FE-Penelec | VFD on Condenser Water Pump | Motor w/out VFD Drive | Street Lighting | Motors | New | motor | 14,759 | 33% | 0.6 | 15 | \$2,843 | 86% | 1.1 |
| FE-Penelec | VFD on Condenser Water Pump | Motor w/out VFD Drive | Street Lighting | Motors | ROB | motor | 14,759 | 33% | 0.6 | 15 | \$2,843 | 86% | 1.1 |
| FE-Penelec | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Street Lighting | Motors | Early | motor | 31,171 | 56% | 2.3 | 15 | \$2,903 | 86% | 3.8 |
| FE-Penelec | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Street Lighting | Motors | New | motor | 30,588 | 57% | 2.3 | 15 | \$2,843 | 86% | 3.8 |
| FE-Penelec | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Street Lighting | Motors | ROB | motor | 30,588 | 57% | 2.3 | 15 | \$2,843 | 86% | 3.8 |
| FE-Penelec | VFD on HVAC Fan | Motor w/out VFD | Street Lighting | Motors | Early | motor | 15,151 | 70% | 1.6 | 15 | \$2,903 | 86% | 2.4 |
| FE-Penelec | VFD on HVAC Fan | Motor w/out VFD | Street Lighting | Motors | New | motor | 14,867 | 72% | 1.6 | 15 | \$2,843 | 86% | 2.5 |
| FE-Penelec | VFD on HVAC Fan | Motor w/out VFD | Street Lighting | Motors | ROB | motor | 14,867 | 72% | 1.6 | 15 | \$2,843 | 86% | 2.5 |
| FE-Penelec | Variable Speed Drives on Process Equipment | Constant speed control | Street Lighting | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 10.6 |
| FE-Penelec | Variable Speed Drives on Process Equipment | Constant speed control | Street Lighting | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 10.6 |
| FE-Penelec | Auto Off Time Switch | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | Existing | building | 8,001 | 24% | 0.2 | 8 | \$1,034 | 13% | 0.7 |
| FE-Penelec | Auto Off Time Switch | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | New | building | 8,001 | 7.0% | 0.07 | 8 | \$1,034 | 0% | 0.2 |
| FE-Penelec | Central Lighting Control System | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | Existing | building | 8,001 | 38% | 0.4 | 8 | \$1,034 | 13% | 1.1 |
| FE-Penelec | Central Lighting Control System | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | New | building | 8,001 | 14% | 0.1 | 8 | \$1,034 | 13% | 0.4 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 40W Incandescent Bulb | Street Lighting | Other Int. Lighting | Early | lamp | 87 | 87% | 0.01 | 15 | \$30 | 14% | 1.8 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | Early | lamp | 62 | 81% | 0.01 | 15 | \$30 | 11% | 1.2 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | New | lamp | 47 | 81% | 0.01 | 15 | \$21 | 14% | 1.3 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | New | lamp | 47 | 81% | 0.01 | 15 | \$23 | 14% | 1.2 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | New | lamp | 47 | 81% | 0.01 | 15 | \$22 | 11% | 1.2 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | ROB | lamp | 62 | 81% | 0.01 | 15 | \$21 | 14% | 1.7 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | ROB | lamp | 62 | 81% | 0.01 | 15 | \$23 | 14% | 1.6 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | ROB | lamp | 62 | 81% | 0.01 | 15 | \$22 | 11% | 1.6 |
| FE-Penelec | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Street Lighting | Other Int. Lighting | Early | lamp | 87 | 75% | 0.01 | 7 | \$73 | 39% | 0.3 |
| FE-Penelec | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Street Lighting | Other Int. Lighting | New | fixture | 95 | 65% | 0.01 | 13 | \$29 | 46% | 1.3 |
| FE-Penelec | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | New | lamp | 47 | 65% | 0.01 | 7 | \$29 | 46% | 0.4 |
| FE-Penelec | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Street Lighting | Other Int. Lighting | ROB | fixture | 125 | 65% | 0.01 | 13 | \$29 | 39% | 1.7 |
| FE-Penelec | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | ROB | lamp | 62 | 65% | 0.01 | 7 | \$29 | 39% | 0.5 |
| FE-Penelec | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Street Lighting | Other Int. Lighting | Early | lamp | 87 | 75% | 0.01 | 7 | \$3.2 | 24% | 7.6 |
| FE-Penelec | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | New | lamp | 47 | 65% | 0.01 | 7 | \$1.8 | 24% | 6.5 |
| FE-Penelec | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | ROB | lamp | 62 | 65% | 0.01 | 7 | \$1.8 | 24% | 8.5 |
| FE-Penelec | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | ROB | lamp | 62 | 65% | 0.01 | 7 | \$1.8 | 24% | 8.5 |
| FE-Penelec | Exit Sign Retrofit: CFL replacing Incandescent | One 23W Single Sided Incandescent Exit Sign | Street Lighting | Other Int. Lighting | Early | exit sign | 139 | 42% | 0.01 | 15 | \$48 | 22% | 0.8 |
| FE-Penelec | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Street Lighting | Other Int. Lighting | New | building | 8,001 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.0 |
| FE-Penelec | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Street Lighting | Other Int. Lighting | New | building | 8,001 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |
| FE-Penelec | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Street Lighting | Other Int. Lighting | New | building | 8,001 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| FE-Penelec | Indoor Daylight Sensors | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | Existing | building | 8,001 | 28% | 0.3 | 8 | \$5,088 | 13% | 0.2 |
| FE-Penelec | Indoor Daylight Sensors | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | New | building | 8,001 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| FE-Penelec | LED Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Street Lighting | Other Int. Lighting | Early | sign | 153 | 87% | 0.02 | 15 | \$48 | 16% | 1.8 |
| FE-Penelec | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Street Lighting | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 2.0 |
| FE-Penelec | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Street Lighting | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 2.0 |
| FE-Penelec | LED Task Lighting/Screw-In | 1 15W CFL bulb | Street Lighting | Other Int. Lighting | Early | lamp | 22 | 33% | 0.00 | 15 | \$9.6 | 24% | 0.5 |
| FE-Penelec | LED Task Lighting/Screw-In | 1 60W Incandescent Bulb | Street Lighting | Other Int. Lighting | Early | lamp | 89 | 83% | 0.01 | 15 | \$9.6 | 24% | 5.4 |
| FE-Penelec | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Street Lighting | Other Int. Lighting | New | lamp | 49 | 77% | 0.01 | 15 | \$7.9 | 24% | 3.3 |
| FE-Penelec | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Street Lighting | Other Int. Lighting | New | lamp | 49 | 77% | 0.01 | 15 | \$7.9 | 24% | 3.3 |
| FE-Penelec | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Street Lighting | Other Int. Lighting | ROB | lamp | 64 | 77% | 0.01 | 15 | \$7.9 | 24% | 4.3 |
| FE-Penelec | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Street Lighting | Other Int. Lighting | ROB | lamp | 64 | 77% | 0.01 | 15 | \$7.9 | 24% | 4.3 |
| FE-Penelec | Occupancy Sensor | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | Existing | building | 8,001 | 24% | 0.2 | 8 | \$1,558 | 11% | 0.5 |
| FE-Penelec | Occupancy Sensor | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | New | building | 8,001 | 7.0% | 0.07 | 8 | \$1,558 | 0% | 0.1 |
| FE-Penelec | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | Existing | building | 8,001 | 28% | 0.3 | 8 | \$5,088 | 11% | 0.2 |
| FE-Penelec | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | New | building | 8,001 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| FE-Penelec | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Street Lighting | Other Int. Lighting | Early | exit sign | 139 | 100% | 0.02 | 15 | \$173 | 26% | 0.5 |
| FE-Penelec | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Street Lighting | Other Int. Lighting | New | exit sign | 80 | 100% | 0.01 | 15 | \$148 | 31% | 0.4 |
| FE-Penelec | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Street Lighting | Other Int. Lighting | ROB | exit sign | 80 | 100% | 0.01 | 15 | \$148 | 26% | 0.4 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|--|---|-----------------|---------------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Time Clock Control | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | Existing | building | 8,001 | 28% | 0.3 | 8 | \$1,034 | 13% | 0.8 |
| FE-Penelec | Time Clock Control | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | New | building | 8,001 | 4.1% | 0.04 | 8 | \$1,034 | 0% | 0.1 |
| FE-Penelec | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Street Lighting | Plug Load | Existing | building | 2,145 | 46% | 0.5 | 5 | \$189 | 4% | 2.0 |
| FE-Penelec | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Street Lighting | Plug Load | New | building | 2,145 | 46% | 0.5 | 5 | \$189 | 4% | 2.0 |
| FE-Penelec | Data Center - Server/Storage Consolidation | No Consolidation | Street Lighting | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penelec | Data Center - Server/Storage Consolidation | No Consolidation | Street Lighting | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penelec | Data Center - Server/Storage Virtualization | No Virtualization | Street Lighting | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penelec | Data Center - Server/Storage Virtualization | No Virtualization | Street Lighting | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penelec | Energy Star - Scanners | Std Scanner | Street Lighting | Plug Load | New | measure | 68 | 3.8% | 0.04 | 4 | \$130 | 7% | 0.1 |
| FE-Penelec | Energy Star - Scanners | Std Scanner | Street Lighting | Plug Load | ROB | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| FE-Penelec | Energy Star Dishwasher | Existing Dishwasher units | Street Lighting | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,550 | 0% | 1.0 |
| FE-Penelec | Energy Star Dishwasher | Standard Dishwasher unit | Street Lighting | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,003 | 0% | 3.5 |
| FE-Penelec | Energy Star Dishwasher | Standard Dishwasher unit | Street Lighting | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,003 | 0% | 3.5 |
| FE-Penelec | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Street Lighting | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 17% | 0.2 |
| FE-Penelec | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Street Lighting | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.0 |
| FE-Penelec | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Street Lighting | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.0 |
| FE-Penelec | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Street Lighting | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 9% | 0.8 |
| FE-Penelec | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Street Lighting | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.7 |
| FE-Penelec | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Street Lighting | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.7 |
| FE-Penelec | ENERGY STAR® Copiers | 10% Less Efficient Copier | Street Lighting | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 80% | 0.0 |
| FE-Penelec | ENERGY STAR® Copiers | One Conventional Copier | Street Lighting | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 80% | 0.0 |
| FE-Penelec | ENERGY STAR® Copiers | One Conventional Copier | Street Lighting | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 80% | 0.0 |
| FE-Penelec | ENERGY STAR® desktop | Standard computer | Street Lighting | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 87% | 0.1 |
| FE-Penelec | ENERGY STAR® desktop | Standard computer | Street Lighting | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 87% | 2.3 |
| FE-Penelec | ENERGY STAR® desktop | Standard computer | Street Lighting | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 87% | 2.3 |
| FE-Penelec | ENERGY STAR® Fax | 10% Less Efficient Fax | Street Lighting | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 89% | 0.0 |
| FE-Penelec | ENERGY STAR® Fax | One Conventional Fax | Street Lighting | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 89% | 0.2 |
| FE-Penelec | ENERGY STAR® Fax | One Conventional Fax | Street Lighting | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 89% | 0.2 |
| FE-Penelec | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Street Lighting | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 89% | 0.0 |
| FE-Penelec | ENERGY STAR® Monitors | One Conventional Monitor | Street Lighting | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 89% | 0.0 |
| FE-Penelec | ENERGY STAR® Monitors | One Conventional Monitor | Street Lighting | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 89% | 0.0 |
| FE-Penelec | ENERGY STAR® Printers | 10% Less Efficient Printer | Street Lighting | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 89% | 0.0 |
| FE-Penelec | ENERGY STAR® Printers | One Conventional Printer | Street Lighting | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 89% | 0.3 |
| FE-Penelec | ENERGY STAR® Printers | One Conventional Printer | Street Lighting | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$130 | 89% | 0.3 |
| FE-Penelec | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Street Lighting | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 87% | 0.1 |
| FE-Penelec | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Street Lighting | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 87% | 0.7 |
| FE-Penelec | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Street Lighting | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 87% | 0.7 |
| FE-Penelec | ENERGY STAR® Televisions | 10% Less Efficient Television | Street Lighting | Plug Load | Early | Unit | 111 | 38% | 0.01 | 6 | \$672 | 85% | 0.0 |
| FE-Penelec | ENERGY STAR® Televisions | One Conventional Television | Street Lighting | Plug Load | New | Unit | 101 | 32% | 0.01 | 6 | \$206 | 85% | 0.0 |
| FE-Penelec | ENERGY STAR® Televisions | One Conventional Television | Street Lighting | Plug Load | ROB | Unit | 101 | 32% | 0.01 | 6 | \$206 | 85% | 0.0 |
| FE-Penelec | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Street Lighting | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 81% | 0.3 |
| FE-Penelec | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Street Lighting | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 81% | 0.6 |
| FE-Penelec | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Street Lighting | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 81% | 0.6 |
| FE-Penelec | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Street Lighting | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.3 |
| FE-Penelec | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Street Lighting | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.3 |
| FE-Penelec | Network PC Power Management | No PC Power Management | Street Lighting | Plug Load | Existing | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 17.3 |
| FE-Penelec | Network PC Power Management | No PC Power Management | Street Lighting | Plug Load | New | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 17.3 |
| FE-Penelec | Smart Strip Plug Outlets | Standard plug strip/outlet | Street Lighting | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.4 |
| FE-Penelec | Smart Strip Plug Outlets | Standard plug strip/outlet | Street Lighting | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.4 |
| FE-Penelec | Smart Strip Plug Outlets | Standard plug strip/outlet | Street Lighting | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Penelec | Smart Strip Plug Outlets | Standard plug strip/outlet | Street Lighting | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Penelec | Smart Strip Plug Outlets | Standard plug strip/outlet | Street Lighting | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Penelec | Smart Strip Plug Outlets | Standard plug strip/outlet | Street Lighting | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Penelec | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Street Lighting | Plug Load | Existing | building | 2,145 | 46% | 0.5 | 5 | \$180 | 3% | 2.1 |
| FE-Penelec | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Street Lighting | Plug Load | New | building | 2,145 | 46% | 0.5 | 5 | \$180 | 3% | 2.1 |
| FE-Penelec | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Street Lighting | Refrigeration | Existing | building | 223 | 2.1% | 0.02 | 12 | \$70 | 11% | 0.3 |
| FE-Penelec | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Street Lighting | Refrigeration | New | building | 223 | 2.1% | 0.02 | 12 | \$70 | 11% | 0.3 |
| FE-Penelec | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Street Lighting | Refrigeration | Existing | building | 223 | 7.0% | 0.07 | 12 | \$70 | 11% | 0.9 |
| FE-Penelec | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Street Lighting | Refrigeration | New | building | 223 | 7.0% | 0.07 | 12 | \$70 | 11% | 0.9 |
| FE-Penelec | Auto Closer on Refrigerator Door | Door w/out Autocloser | Street Lighting | Refrigeration | Existing | building | 1,172 | 48% | 0.5 | 8 | \$747 | 40% | 0.6 |
| FE-Penelec | Auto Closer on Refrigerator Door | Door w/out Autocloser | Street Lighting | Refrigeration | Existing | building | 4,018 | 17% | 0.2 | 8 | \$476 | 40% | 0.6 |
| FE-Penelec | Auto Closer on Refrigerator Door | Door w/out Autocloser | Street Lighting | Refrigeration | New | building | 1,172 | 48% | 0.5 | 8 | \$747 | 40% | 0.6 |
| FE-Penelec | Auto Closer on Refrigerator Door | Door w/out Autocloser | Street Lighting | Refrigeration | New | building | 4,018 | 17% | 0.2 | 8 | \$476 | 40% | 0.6 |
| FE-Penelec | Demand Hot Gas Defrost | Base Refrigeration System | Street Lighting | Refrigeration | Existing | measure | 223 | 3.0% | 0.03 | 10 | \$1,387 | 0% | 0.0 |
| FE-Penelec | Demand Hot Gas Defrost | Base Refrigeration System | Street Lighting | Refrigeration | New | measure | 223 | 3.0% | 0.03 | 10 | \$1,387 | 0% | 0.0 |
| FE-Penelec | Door Gasket- Freezer | Door w/out Gasket | Street Lighting | Refrigeration | Existing | building | 1,172 | 26% | 0.3 | 4 | \$77 | 29% | 1.8 |
| FE-Penelec | Door Gasket- Freezer | Door w/out Gasket | Street Lighting | Refrigeration | New | building | 1,172 | 26% | 0.3 | 4 | \$77 | 29% | 1.8 |
| FE-Penelec | Door Gasket- Refrigerator | Door w/out Gasket | Street Lighting | Refrigeration | Existing | building | 4,018 | 5.4% | 0.05 | 4 | \$66 | 45% | 0.8 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|--|-----------------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Door Gasket- Refrigerator | Door w/out Gasket | Street Lighting | Refrigeration | New | building | 4,018 | 5.4% | 0.05 | 4 | \$66 | 45% | 0.8 |
| FE-Penelec | eCube | Refrigeration unit w/out eCube | Street Lighting | Refrigeration | Existing | building | 4,018 | 15% | 0.2 | 15 | \$504 | 57% | 0.9 |
| FE-Penelec | eCube | Refrigeration unit w/out eCube | Street Lighting | Refrigeration | New | building | 4,018 | 15% | 0.2 | 15 | \$504 | 57% | 0.9 |
| FE-Penelec | Efficient compressor motor | Base Refrigeration System - Grocery | Street Lighting | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.6 |
| FE-Penelec | Efficient compressor motor | Base Refrigeration System - Grocery | Street Lighting | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.6 |
| FE-Penelec | Efficient compressor motor | Base Refrigeration System - Grocery | Street Lighting | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.6 |
| FE-Penelec | Efficient compressor motor | Base Refrigeration System - Grocery | Street Lighting | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.6 |
| FE-Penelec | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Street Lighting | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.5 |
| FE-Penelec | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Street Lighting | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| FE-Penelec | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Street Lighting | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| FE-Penelec | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Street Lighting | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.3 |
| FE-Penelec | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Street Lighting | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.7 |
| FE-Penelec | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Street Lighting | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.7 |
| FE-Penelec | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Street Lighting | Refrigeration | Existing | building | 4,018 | 3.1% | 0.03 | 10 | \$369 | 77% | 0.2 |
| FE-Penelec | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Street Lighting | Refrigeration | New | building | 4,018 | 3.1% | 0.03 | 10 | \$369 | 77% | 0.2 |
| FE-Penelec | Floating head pressure controller | System w/out FHPC | Street Lighting | Refrigeration | Existing | building | 1,172 | 19% | 0.05 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penelec | Floating head pressure controller | System w/out FHPC | Street Lighting | Refrigeration | Existing | building | 223 | 44% | 0.02 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penelec | Floating head pressure controller | System w/out FHPC | Street Lighting | Refrigeration | Existing | building | 4,018 | 2.0% | 0.02 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penelec | Floating head pressure controller | System w/out FHPC | Street Lighting | Refrigeration | New | building | 1,172 | 19% | 0.05 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penelec | Floating head pressure controller | System w/out FHPC | Street Lighting | Refrigeration | New | building | 223 | 44% | 0.02 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penelec | Floating head pressure controller | System w/out FHPC | Street Lighting | Refrigeration | New | building | 4,018 | 2.0% | 0.02 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penelec | High Efficiency Commercial Freezer | Std. Commercial Freezer | Street Lighting | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 86% | 0.3 |
| FE-Penelec | High Efficiency Commercial Freezer | Std. Commercial Freezer | Street Lighting | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 3.8 |
| FE-Penelec | High Efficiency Commercial Freezer | Std. Commercial Freezer | Street Lighting | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 3.8 |
| FE-Penelec | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Street Lighting | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 2% | 0.1 |
| FE-Penelec | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Street Lighting | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.8 |
| FE-Penelec | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Street Lighting | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.8 |
| FE-Penelec | High Efficiency Ice Maker | Existing Standard Efficiency Ice Maker in Pennsylvania | Street Lighting | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 73% | 0.1 |
| FE-Penelec | High Efficiency Ice Maker | Standard code minimum Ice Maker | Street Lighting | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| FE-Penelec | High Efficiency Ice Maker | Standard code minimum Ice Maker | Street Lighting | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| FE-Penelec | High Efficiency Ice Making Head | Standard Ice Making Head | Street Lighting | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.7 |
| FE-Penelec | High Efficiency Ice Making Head | Standard Ice Making Head | Street Lighting | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.7 |
| FE-Penelec | High R-Value Glass Doors | Base Refrigeration System - Grocery | Street Lighting | Refrigeration | Existing | building | 223 | 0.7% | 0.01 | 10 | \$8.7 | 0% | 0.6 |
| FE-Penelec | High R-Value Glass Doors | Base Refrigeration System - Grocery | Street Lighting | Refrigeration | New | building | 223 | 0.7% | 0.01 | 10 | \$8.7 | 0% | 0.6 |
| FE-Penelec | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Street Lighting | Refrigeration | Early | Fixture | 373 | 56% | 0.01 | 8 | \$448 | 47% | 0.1 |
| FE-Penelec | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Street Lighting | Refrigeration | New | Fixture | 291 | 44% | 0.00 | 8 | \$139 | 47% | 0.3 |
| FE-Penelec | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Street Lighting | Refrigeration | ROB | Fixture | 291 | 44% | 0.00 | 8 | \$139 | 47% | 0.3 |
| FE-Penelec | No-heat glass doors | Standard low-temp reach-in | Street Lighting | Refrigeration | Existing | building | 223 | 20% | 0.2 | 10 | \$795 | 8% | 0.2 |
| FE-Penelec | No-heat glass doors | Standard low-temp reach-in | Street Lighting | Refrigeration | New | building | 223 | 20% | 0.2 | 10 | \$795 | 8% | 0.2 |
| FE-Penelec | Quick acting freezer doors | Std. Freezer Doors | Street Lighting | Refrigeration | Existing | building | 1,172 | 13% | 0.1 | 10 | \$440 | 56% | 0.3 |
| FE-Penelec | Quick acting freezer doors | Std. Freezer Doors | Street Lighting | Refrigeration | New | building | 1,172 | 13% | 0.1 | 10 | \$440 | 56% | 0.3 |
| FE-Penelec | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Street Lighting | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 30% | 0.4 |
| FE-Penelec | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Street Lighting | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.5 |
| FE-Penelec | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Street Lighting | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.5 |
| FE-Penelec | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 30% | 1.6 |
| FE-Penelec | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 2.8 |
| FE-Penelec | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 2.8 |
| FE-Penelec | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 30% | 1.6 |
| FE-Penelec | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 3.8 |
| FE-Penelec | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 3.8 |
| FE-Penelec | Refrigeration Commissioning | Non-commissioned refrigeration system | Street Lighting | Refrigeration | Existing | building | 5,580 | 9.5% | 0.10 | 3 | \$1,204 | 85% | 0.1 |
| FE-Penelec | Refrigeration Commissioning | Non-commissioned refrigeration system | Street Lighting | Refrigeration | New | building | 5,580 | 9.5% | 0.10 | 3 | \$1,204 | 85% | 0.1 |
| FE-Penelec | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Street Lighting | Refrigeration | Existing | building | 1,172 | 62% | 0.6 | 4 | \$93 | 22% | 3.5 |
| FE-Penelec | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Street Lighting | Refrigeration | Existing | building | 4,018 | 7.6% | 0.08 | 4 | \$80 | 22% | 0.9 |
| FE-Penelec | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Street Lighting | Refrigeration | New | building | 1,172 | 62% | 0.6 | 4 | \$93 | 22% | 3.5 |
| FE-Penelec | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Street Lighting | Refrigeration | New | building | 4,018 | 7.6% | 0.08 | 4 | \$80 | 22% | 0.9 |
| FE-Penelec | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Street Lighting | Refrigeration | Existing | building | 1,172 | 11% | 0.1 | 11 | \$119 | 79% | 1.1 |
| FE-Penelec | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Street Lighting | Refrigeration | New | building | 1,172 | 11% | 0.1 | 11 | \$119 | 79% | 1.1 |
| FE-Penelec | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Street Lighting | Refrigeration | Existing | building | 4,018 | 8.1% | 0.08 | 11 | \$119 | 79% | 1.5 |
| FE-Penelec | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Street Lighting | Refrigeration | New | building | 4,018 | 8.1% | 0.08 | 11 | \$119 | 79% | 1.5 |
| FE-Penelec | Vertical Night Covers | Display cases w/out night covers-High Temperature | Street Lighting | Refrigeration | Existing | building | 223 | 1.1% | 0.01 | 5 | \$52 | 9% | 0.1 |
| FE-Penelec | Vertical Night Covers | Display cases w/out night covers-High Temperature | Street Lighting | Refrigeration | New | building | 223 | 1.1% | 0.01 | 5 | \$52 | 9% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|--|-----------------|-----------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | VSD Controlled Compressor | Compressor w/out VSD | Street Lighting | Refrigeration | Early | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |
| FE-Penelec | VSD Controlled Compressor | Compressor w/out VSD | Street Lighting | Refrigeration | New | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |
| FE-Penelec | VSD Controlled Compressor | Compressor w/out VSD | Street Lighting | Refrigeration | ROB | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |
| FE-Penelec | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Street Lighting | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$269 | 35% | 0.9 |
| FE-Penelec | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Street Lighting | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$269 | 35% | 0.8 |
| FE-Penelec | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Street Lighting | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.0 |
| FE-Penelec | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Street Lighting | Refrigeration | New | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 2.9 |
| FE-Penelec | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Street Lighting | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.0 |
| FE-Penelec | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Street Lighting | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 2.9 |
| FE-Penelec | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 35% | 2.3 |
| FE-Penelec | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 35% | 2.2 |
| FE-Penelec | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 4.9 |
| FE-Penelec | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.6 |
| FE-Penelec | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 4.9 |
| FE-Penelec | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.6 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Street Lighting | Space Heating | Existing | building | 8,284 | 7.1% | 0.07 | 6 | \$12,717 | 82% | 0.0 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Street Lighting | Space Heating | New | building | 8,284 | 7.1% | 0.07 | 6 | \$12,717 | 82% | 0.0 |
| FE-Penelec | Adding window shade film | No shade film | Street Lighting | Space Heating | Existing | building | 8,284 | 1.3% | 0.4 | 10 | \$101 | 13% | 2.9 |
| FE-Penelec | Adding window shade film | No shade film | Street Lighting | Space Heating | New | building | 8,284 | 1.3% | 0.4 | 10 | \$101 | 13% | 2.9 |
| FE-Penelec | Adding window shade screen | No shade screen | Street Lighting | Space Heating | Existing | building | 8,284 | 1.1% | 0.01 | 10 | \$39 | 13% | 1.0 |
| FE-Penelec | Adding window shade screen | No shade screen | Street Lighting | Space Heating | New | building | 8,284 | 1.1% | 0.01 | 10 | \$39 | 13% | 1.0 |
| FE-Penelec | Automated control system | Manual Controls | Street Lighting | Space Heating | Existing | building | 8,284 | 17% | 0.2 | 15 | \$9,069 | 51% | 0.1 |
| FE-Penelec | Automated control system | Manual Controls | Street Lighting | Space Heating | New | building | 8,284 | 17% | 0.2 | 15 | \$9,069 | 94% | 0.1 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Street Lighting | Space Heating | Existing | building | 8,284 | 6.2% | 0.06 | 15 | \$17,130 | 71% | 0.0 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Street Lighting | Space Heating | New | building | 8,284 | 2.1% | 0.02 | 15 | \$16,283 | 94% | 0.0 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Street Lighting | Space Heating | Existing | building | 8,284 | 1.4% | 0.04 | 15 | \$66 | 20% | 1.4 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Street Lighting | Space Heating | New | building | 8,284 | 1.4% | 0.04 | 15 | \$66 | 10% | 1.4 |
| FE-Penelec | Efficient Unit Heating System | Existing Unit Heaters in PA | Street Lighting | Space Heating | Early | heater | 31,537 | 23% | 0.05 | 15 | \$3,289 | 83% | 1.1 |
| FE-Penelec | Efficient Unit Heating System | Std. Unit Heater | Street Lighting | Space Heating | New | heater | 27,989 | 13% | 0.03 | 15 | \$1,991 | 83% | 0.9 |
| FE-Penelec | Efficient Unit Heating System | Std. Unit Heater | Street Lighting | Space Heating | ROB | heater | 27,989 | 13% | 0.03 | 15 | \$1,991 | 83% | 0.9 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Street Lighting | Space Heating | Existing | building | 8,284 | 7.1% | 0.07 | 15 | \$36,747 | 25% | 0.0 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Street Lighting | Space Heating | New | building | 8,284 | 7.1% | 0.07 | 15 | \$36,747 | 35% | 0.0 |
| FE-Penelec | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Street Lighting | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$76 | 80% | 1.0 |
| FE-Penelec | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Street Lighting | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$76 | 80% | 1.0 |
| FE-Penelec | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Street Lighting | Space Heating | Existing | building | 8,284 | 2.2% | 0.02 | 10 | \$7,735 | 81% | 0.0 |
| FE-Penelec | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Street Lighting | Space Heating | New | building | 8,284 | 2.2% | 0.02 | 10 | \$7,735 | 81% | 0.0 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Street Lighting | Space Heating | Existing | building | 8,284 | 3.6% | 0.04 | 11 | \$286 | 49% | 0.5 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Street Lighting | Space Heating | New | building | 8,284 | 3.1% | 0.03 | 11 | \$146 | 49% | 0.8 |
| FE-Penelec | Re-Commissioning (Existing Construction) | No Re-Commissioning | Street Lighting | Space Heating | Existing | building | 8,284 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |
| FE-Penelec | VFD on Cooling Tower Fan | Motor w/out VFD | Street Lighting | Space Heating | Early | motor | 15,151 | 70% | 0.08 | 15 | \$2,843 | 88% | 1.8 |
| FE-Penelec | VFD on Cooling Tower Fan | Motor w/out VFD | Street Lighting | Space Heating | New | motor | 14,867 | 72% | 0.08 | 15 | \$2,843 | 88% | 1.8 |
| FE-Penelec | VFD on Cooling Tower Fan | Motor w/out VFD | Street Lighting | Space Heating | ROB | motor | 14,867 | 72% | 0.08 | 15 | \$2,843 | 88% | 1.8 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Street Lighting | Space Heating | Existing | building | 8,284 | 11% | 0.1 | 15 | \$3,285 | 26% | 0.2 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Street Lighting | Space Heating | New | building | 8,284 | 0.3% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| FE-Penelec | Green LED Traffic Light | Green Incandescent Traffic Light | Street Lighting | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 67% | 1.2 |
| FE-Penelec | Green LED Traffic Light | Green Incandescent Traffic Light | Street Lighting | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 67% | 0.1 |
| FE-Penelec | Green LED Traffic Light | Green Incandescent Traffic Light | Street Lighting | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 67% | 0.1 |
| FE-Penelec | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Street Lighting | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 4% | 3.0 |
| FE-Penelec | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Street Lighting | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 4% | 0.4 |
| FE-Penelec | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Street Lighting | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 4% | 0.4 |
| FE-Penelec | Induction Street Lighting | One 100W HPS Street Light Fixture | Street Lighting | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 87% | 0.3 |
| FE-Penelec | Induction Street Lighting | One 100W HPS Street Light Fixture | Street Lighting | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 87% | 1.7 |
| FE-Penelec | Induction Street Lighting | One 100W HPS Street Light Fixture | Street Lighting | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 87% | 1.7 |
| FE-Penelec | LED Street Lighting | One 100W HPS Street Light | Street Lighting | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 88% | 0.2 |
| FE-Penelec | LED Street Lighting | One 100W HPS Street Light | Street Lighting | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 88% | 0.3 |
| FE-Penelec | LED Street Lighting | One 100W HPS Street Light | Street Lighting | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 88% | 0.3 |
| FE-Penelec | Red LED Traffic Light | One Red Incandescent Traffic Light | Street Lighting | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 67% | 1.6 |
| FE-Penelec | Red LED Traffic Light | One Red Incandescent Traffic Light | Street Lighting | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 67% | 0.3 |
| FE-Penelec | Red LED Traffic Light | One Red Incandescent Traffic Light | Street Lighting | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 67% | 0.3 |
| FE-Penelec | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Street Lighting | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 67% | 0.1 |
| FE-Penelec | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Street Lighting | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 67% | 0.0 |
| FE-Penelec | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Street Lighting | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 67% | 0.0 |
| FE-Penelec | Demand controlled Circulating Systems | Constant circulation system | Street Lighting | Water Heating | Existing | building | 2,112 | 20% | 0.2 | 15 | \$383 | 59% | 1.1 |
| FE-Penelec | Demand controlled Circulating Systems | Constant circulation system | Street Lighting | Water Heating | New | building | 2,112 | 20% | 0.2 | 15 | \$383 | 59% | 1.1 |
| FE-Penelec | Drainwater Heat Recovery Water Heater | No heat recovery | Street Lighting | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.9 |
| FE-Penelec | Drainwater Heat Recovery Water Heater | No heat recovery | Street Lighting | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.9 |
| FE-Penelec | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Street Lighting | Water Heating | Existing | building | 2,112 | 5.9% | 0.06 | 12 | \$14 | 85% | 7.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|--|---|-----------------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Street Lighting | Water Heating | New | building | 2,112 | 5.9% | 0.06 | 12 | \$4.0 | 85% | 25.2 |
| FE-Penelec | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Street Lighting | Water Heating | Early | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 2.9 |
| FE-Penelec | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Street Lighting | Water Heating | Early | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 2.9 |
| FE-Penelec | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Street Lighting | Water Heating | New | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 2.9 |
| FE-Penelec | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Street Lighting | Water Heating | New | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 2.9 |
| FE-Penelec | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Street Lighting | Water Heating | ROB | water heater | 10,350 | 65% | 1.2 | 10 | \$1,187 | 68% | 2.8 |
| FE-Penelec | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Street Lighting | Water Heating | ROB | water heater | 10,350 | 65% | 1.2 | 10 | \$1,187 | 68% | 2.8 |
| FE-Penelec | Heat Recovery Unit | Base Water Heating | Street Lighting | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.6 |
| FE-Penelec | Heat Recovery Unit | Base Water Heating | Street Lighting | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.6 |
| FE-Penelec | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Street Lighting | Water Heating | Early | water heater | 10,645 | 5.9% | 0.1 | 15 | \$307 | 79% | 1.4 |
| FE-Penelec | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Street Lighting | Water Heating | Early | water heater | 10,645 | 5.9% | 0.1 | 15 | \$307 | 79% | 1.4 |
| FE-Penelec | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Street Lighting | Water Heating | New | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.8 |
| FE-Penelec | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Street Lighting | Water Heating | New | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.8 |
| FE-Penelec | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Street Lighting | Water Heating | ROB | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.8 |
| FE-Penelec | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Street Lighting | Water Heating | ROB | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.8 |
| FE-Penelec | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Street Lighting | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$466 | 81% | 39.2 |
| FE-Penelec | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Street Lighting | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 20.4 |
| FE-Penelec | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Street Lighting | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 20.4 |
| FE-Penelec | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Street Lighting | Water Heating | Existing | building | 2,112 | 1.7% | 0.02 | 13 | \$5.4 | 68% | 5.8 |
| FE-Penelec | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Street Lighting | Water Heating | New | building | 2,112 | 1.7% | 0.02 | 13 | \$5.4 | 0% | 5.8 |
| FE-Penelec | Hot Water Circulation Pump Time-Clock | Constant circulation system | Street Lighting | Water Heating | Existing | building | 2,112 | 5.3% | 0.05 | 10 | \$8.5 | 72% | 9.2 |
| FE-Penelec | Hot Water Circulation Pump Time-Clock | Constant circulation system | Street Lighting | Water Heating | New | building | 2,112 | 5.3% | 0.05 | 10 | \$8.5 | 72% | 9.2 |
| FE-Penelec | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Street Lighting | Water Heating | Existing | building | 2,112 | 0.9% | 0.01 | 7 | \$22 | 78% | 0.5 |
| FE-Penelec | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Street Lighting | Water Heating | New | building | 2,112 | 0.8% | 0.01 | 7 | \$0.5 | 78% | 18.0 |
| FE-Penelec | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Street Lighting | Water Heating | Existing | building | 2,112 | 9.0% | 0.09 | 5 | \$300 | 0% | 0.3 |
| FE-Penelec | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Street Lighting | Water Heating | New | building | 2,112 | 6.0% | 0.06 | 5 | \$194 | 0% | 0.3 |
| FE-Penelec | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Street Lighting | Water Heating | Existing | building | 2,112 | 6.5% | 0.07 | 9 | \$25 | 2% | 3.6 |
| FE-Penelec | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Street Lighting | Water Heating | New | building | 2,112 | 6.5% | 0.07 | 9 | \$6.0 | 2% | 14.9 |
| FE-Penelec | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Street Lighting | Water Heating | Early | water heater | 10,645 | 52% | 0.4 | 15 | \$6,222 | 32% | 0.5 |
| FE-Penelec | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Street Lighting | Water Heating | New | water heater | 10,350 | 51% | 0.4 | 15 | \$6,222 | 32% | 0.5 |
| FE-Penelec | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Street Lighting | Water Heating | ROB | water heater | 10,350 | 51% | 0.4 | 15 | \$6,222 | 32% | 0.5 |
| FE-Penelec | Ultrasonic Faucet Control | Manual Faucet Control | Street Lighting | Water Heating | Existing | building | 2,112 | 3.0% | 0.03 | 10 | \$365 | 77% | 0.1 |
| FE-Penelec | Ultrasonic Faucet Control | Manual Faucet Control | Street Lighting | Water Heating | New | building | 2,112 | 3.0% | 0.03 | 10 | \$365 | 77% | 0.1 |
| FE-Penelec | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Street Lighting | Water Heating | Existing | building | 2,112 | 2.2% | 0.02 | 4 | \$28 | 83% | 0.6 |
| FE-Penelec | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Street Lighting | Water Heating | New | building | 2,112 | 2.3% | 0.02 | 4 | \$28 | 83% | 0.6 |
| FE-Penelec | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Warehouse | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.1 |
| FE-Penelec | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Warehouse | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.1 |
| FE-Penelec | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Warehouse | Cooking | Early | steamer | 16 | 68% | 0.00 | 12 | \$5,053 | 81% | 0.0 |
| FE-Penelec | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Warehouse | Cooking | New | steamer | 7 | 29% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-Penelec | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Warehouse | Cooking | ROB | steamer | 7 | 29% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-Penelec | Electric combination oven (Energy Star) | Standard Oven | Warehouse | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.9 |
| FE-Penelec | Electric combination oven (Energy Star) | Standard Oven | Warehouse | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.9 |
| FE-Penelec | Electric Convection Oven | Conventional convection oven w/ 65% efficiency | Warehouse | Cooking | Early | oven | 8,641 | 37% | 0.6 | 12 | \$4,119 | 81% | 0.4 |
| FE-Penelec | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Warehouse | Cooking | New | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.7 |
| FE-Penelec | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Warehouse | Cooking | ROB | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.7 |
| FE-Penelec | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Warehouse | Cooking | Early | fryer | 6,105 | 23% | 0.3 | 12 | \$9,241 | 86% | 0.1 |
| FE-Penelec | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Warehouse | Cooking | New | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| FE-Penelec | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Warehouse | Cooking | ROB | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| FE-Penelec | High Efficiency Griddle (ENERGY STAR) | Efficiency code minimum griddle (70% eff) | Warehouse | Cooking | Early | griddle | 11,317 | 65% | 1.4 | 12 | \$4,977 | 86% | 0.8 |
| FE-Penelec | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Warehouse | Cooking | New | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.2 |
| FE-Penelec | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Warehouse | Cooking | ROB | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.2 |
| FE-Penelec | High Efficiency Induction Cooking | Standard Cooking | Warehouse | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-Penelec | High Efficiency Induction Cooking | Standard Cooking | Warehouse | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Warehouse | Cooling Central | Existing | building | 2,356 | 7.0% | 0.07 | 6 | \$20,725 | 82% | 0.0 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Warehouse | Cooling Central | New | building | 2,356 | 7.0% | 0.07 | 6 | \$20,725 | 82% | 0.0 |
| FE-Penelec | Adding window shade film | No shade film | Warehouse | Cooling Central | Existing | building | 2,356 | 1.3% | 0.4 | 10 | \$29 | 13% | 9.5 |
| FE-Penelec | Adding window shade film | No shade film | Warehouse | Cooling Central | New | building | 2,356 | 1.3% | 0.4 | 10 | \$29 | 13% | 9.5 |
| FE-Penelec | Adding window shade screen | No shade screen | Warehouse | Cooling Central | Existing | building | 2,356 | 1.1% | 0.01 | 10 | \$11 | 13% | 1.5 |
| FE-Penelec | Adding window shade screen | No shade screen | Warehouse | Cooling Central | New | building | 2,356 | 1.0% | 0.01 | 10 | \$11 | 13% | 1.5 |
| FE-Penelec | Automated control system | Manual Controls | Warehouse | Cooling Central | Existing | building | 2,356 | 17% | 0.2 | 15 | \$2,579 | 51% | 0.1 |
| FE-Penelec | Automated control system | Manual Controls | Warehouse | Cooling Central | New | building | 2,356 | 17% | 0.2 | 15 | \$2,579 | 94% | 0.1 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Warehouse | Cooling Central | Existing | building | 2,356 | 5.9% | 0.06 | 15 | \$27,901 | 71% | 0.0 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Warehouse | Cooling Central | New | building | 2,356 | 3.7% | 0.04 | 15 | \$26,520 | 94% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|--|---|-----------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Chiller Tuneup/Diagnostics | No tuneup | Warehouse | Cooling Central | Existing | building | 2,356 | 8.0% | 0.08 | 10 | \$6,015 | 59% | 0.0 |
| FE-Penelec | Chiller Tuneup/Diagnostics | No tuneup | Warehouse | Cooling Central | New | building | 2,356 | 8.0% | 0.08 | 10 | \$6,015 | 59% | 0.0 |
| FE-Penelec | Cooling Tower Optimization | No Cooling Tower Optimization | Warehouse | Cooling Central | Existing | building | 2,356 | 20% | 0.2 | 10 | \$14 | 69% | 21.4 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Warehouse | Cooling Central | Existing | building | 2,356 | 1.4% | 0.04 | 15 | \$19 | 20% | 2.9 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Warehouse | Cooling Central | New | building | 2,356 | 1.4% | 0.04 | 15 | \$19 | 10% | 2.9 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Warehouse | Cooling Central | Existing | building | 2,356 | 7.0% | 0.07 | 15 | \$10,449 | 25% | 0.0 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Warehouse | Cooling Central | New | building | 2,356 | 7.0% | 0.07 | 15 | \$10,449 | 35% | 0.0 |
| FE-Penelec | Hi Eff HVAC System Design | No HVAC Design | Warehouse | Cooling Central | New | building | 2,356 | 12% | 0.1 | 10 | \$129,876 | 51% | 0.0 |
| FE-Penelec | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | Early | ton | 3,841 | 24% | 0.3 | 15 | \$108,550 | 89% | 0.0 |
| FE-Penelec | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | New | ton | 3,140 | 6.7% | 0.07 | 15 | \$12,927 | 89% | 0.0 |
| FE-Penelec | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | ROB | ton | 3,140 | 6.7% | 0.07 | 15 | \$12,927 | 89% | 0.0 |
| FE-Penelec | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | Early | ton | 5,740 | 23% | 0.5 | 15 | \$140,105 | 89% | 0.0 |
| FE-Penelec | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | New | ton | 4,618 | 4.9% | 0.08 | 15 | \$9,336 | 89% | 0.0 |
| FE-Penelec | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | ROB | ton | 4,618 | 4.9% | 0.08 | 15 | \$9,336 | 89% | 0.0 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | Early | ton | 46,985 | 26% | 4.2 | 15 | \$105,354 | 89% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | New | ton | 40,938 | 15% | 2.1 | 15 | \$30,530 | 89% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | ROB | ton | 40,938 | 15% | 2.1 | 15 | \$30,530 | 89% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | Early | ton | 70,371 | 23% | 5.6 | 15 | \$154,107 | 89% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | New | ton | 64,645 | 16% | 3.6 | 15 | \$27,646 | 89% | 0.3 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | ROB | ton | 70,371 | 23% | 5.6 | 15 | \$27,646 | 89% | 0.5 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | Early | ton | 116,873 | 23% | 9.2 | 15 | \$302,924 | 89% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | New | ton | 105,779 | 14% | 5.3 | 15 | \$115,432 | 89% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | ROB | ton | 116,873 | 23% | 9.2 | 15 | \$115,432 | 89% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | Early | ton | 140,248 | 23% | 11.0 | 15 | \$350,154 | 89% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | New | ton | 126,935 | 14% | 6.4 | 15 | \$120,406 | 89% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | ROB | ton | 140,248 | 23% | 11.0 | 15 | \$120,406 | 89% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | Early | ton | 31,087 | 29% | 3.2 | 15 | \$83,632 | 89% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | New | ton | 24,139 | 8.9% | 0.7 | 15 | \$40,211 | 89% | 0.0 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | ROB | ton | 31,087 | 29% | 3.2 | 15 | \$40,211 | 89% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | Early | ton | 53,416 | 35% | 6.5 | 15 | \$132,173 | 89% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | New | ton | 39,839 | 13% | 1.7 | 15 | \$39,556 | 89% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | ROB | ton | 39,839 | 13% | 1.7 | 15 | \$39,556 | 89% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | Early | ton | 89,181 | 39% | 12.1 | 15 | \$187,029 | 89% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | New | ton | 63,585 | 15% | 3.2 | 15 | \$33,554 | 89% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | ROB | ton | 89,181 | 39% | 12.1 | 15 | \$33,554 | 89% | 0.9 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | Early | ton | 15,605 | 30% | 1.6 | 15 | \$32,398 | 89% | 0.1 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | New | ton | 12,364 | 11% | 0.5 | 15 | \$7,188 | 89% | 0.2 |
| FE-Penelec | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | ROB | ton | 15,605 | 30% | 1.6 | 15 | \$7,188 | 89% | 0.6 |
| FE-Penelec | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Warehouse | Cooling Central | Existing | building | 2,356 | 1.1% | 0.01 | 10 | \$42,091 | 81% | 0.0 |
| FE-Penelec | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Warehouse | Cooling Central | New | building | 2,356 | 1.1% | 0.01 | 10 | \$42,091 | 81% | 0.0 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Warehouse | Cooling Central | Existing | building | 2,356 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.1 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Warehouse | Cooling Central | New | building | 2,356 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.2 |
| FE-Penelec | Re-Commissioning (Existing Construction) | No Re-Commissioning | Warehouse | Cooling Central | Existing | building | 2,356 | 16% | 0.2 | 5 | \$8,619 | 86% | 0.0 |
| FE-Penelec | Wall Insulations (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Warehouse | Cooling Central | Existing | building | 2,356 | 19% | 0.2 | 15 | \$6,551 | 26% | 0.1 |
| FE-Penelec | Wall Insulations (Going upto R 21) | Code minimum Wall Insulations | Warehouse | Cooling Central | New | building | 2,356 | 0.6% | 0.01 | 15 | \$5,025 | 94% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|--|-----------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | <65k BTU/hr 14 SEER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Warehouse | Cooling Unitary | Early | ton | 5,421 | 16% | 0.1 | 15 | \$1,545 | 28% | 0.4 |
| FE-Penelec | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Warehouse | Cooling Unitary | New | ton | 4,910 | 7.1% | 0.06 | 15 | \$339 | 28% | 0.7 |
| FE-Penelec | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Warehouse | Cooling Unitary | ROB | ton | 4,910 | 7.1% | 0.06 | 15 | \$339 | 28% | 0.7 |
| FE-Penelec | <65k BTU/hr 15 SEER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Warehouse | Cooling Unitary | Early | ton | 5,421 | 22% | 0.2 | 15 | \$1,821 | 28% | 0.4 |
| FE-Penelec | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Warehouse | Cooling Unitary | New | ton | 4,910 | 13% | 0.1 | 15 | \$714 | 28% | 0.6 |
| FE-Penelec | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Warehouse | Cooling Unitary | ROB | ton | 4,910 | 13% | 0.1 | 15 | \$714 | 28% | 0.6 |
| FE-Penelec | <65k BTU/hr 16 SEER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Warehouse | Cooling Unitary | Early | ton | 5,421 | 26% | 0.2 | 15 | \$2,098 | 29% | 0.5 |
| FE-Penelec | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Warehouse | Cooling Unitary | New | ton | 4,910 | 19% | 0.2 | 15 | \$1,089 | 29% | 0.6 |
| FE-Penelec | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Warehouse | Cooling Unitary | ROB | ton | 4,910 | 19% | 0.2 | 15 | \$1,089 | 29% | 0.6 |
| FE-Penelec | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Warehouse | Cooling Unitary | Early | ton | 137,157 | 3.7% | 0.9 | 15 | \$68,066 | 35% | 0.1 |
| FE-Penelec | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Warehouse | Cooling Unitary | New | ton | 138,915 | 4.9% | 1.2 | 15 | \$6,231 | 35% | 0.8 |
| FE-Penelec | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Warehouse | Cooling Unitary | ROB | ton | 138,915 | 4.9% | 1.2 | 15 | \$6,231 | 35% | 0.8 |
| FE-Penelec | 135-240k min 12 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Warehouse | Cooling Unitary | Early | ton | 33,748 | 18% | 1.1 | 15 | \$18,135 | 35% | 0.2 |
| FE-Penelec | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Warehouse | Cooling Unitary | New | ton | 30,699 | 10.0% | 0.5 | 15 | \$1,948 | 35% | 1.1 |
| FE-Penelec | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Warehouse | Cooling Unitary | ROB | ton | 30,699 | 10.0% | 0.5 | 15 | \$1,948 | 35% | 1.1 |
| FE-Penelec | 240k-760k min 11 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Warehouse | Cooling Unitary | Early | ton | 90,235 | 9.0% | 1.4 | 15 | \$44,809 | 35% | 0.1 |
| FE-Penelec | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Warehouse | Cooling Unitary | New | ton | 90,459 | 9.3% | 1.4 | 15 | \$4,813 | 35% | 1.2 |
| FE-Penelec | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Warehouse | Cooling Unitary | ROB | ton | 90,459 | 9.3% | 1.4 | 15 | \$4,813 | 35% | 1.2 |
| FE-Penelec | 65k-135k BTU/hr 12 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Warehouse | Cooling Unitary | Early | ton | 19,894 | 17% | 0.6 | 15 | \$10,946 | 35% | 0.2 |
| FE-Penelec | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Warehouse | Cooling Unitary | New | ton | 17,730 | 6.7% | 0.2 | 15 | \$1,392 | 35% | 0.6 |
| FE-Penelec | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Warehouse | Cooling Unitary | ROB | ton | 17,730 | 6.7% | 0.2 | 15 | \$1,392 | 35% | 0.6 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Warehouse | Cooling Unitary | Existing | building | 21,856 | 7.0% | 0.07 | 6 | \$20,725 | 82% | 0.0 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Warehouse | Cooling Unitary | New | building | 21,856 | 7.0% | 0.07 | 6 | \$20,725 | 82% | 0.0 |
| FE-Penelec | Adding window shade film | No shade film | Warehouse | Cooling Unitary | Existing | building | 21,856 | 1.3% | 0.4 | 10 | \$266 | 12% | 1.4 |
| FE-Penelec | Adding window shade film | No shade film | Warehouse | Cooling Unitary | New | building | 21,856 | 1.3% | 0.4 | 10 | \$266 | 13% | 1.4 |
| FE-Penelec | Adding window shade screen | No shade screen | Warehouse | Cooling Unitary | Existing | building | 21,856 | 1.1% | 0.01 | 10 | \$103 | 12% | 0.9 |
| FE-Penelec | Adding window shade screen | No shade screen | Warehouse | Cooling Unitary | New | building | 21,856 | 1.1% | 0.01 | 10 | \$103 | 13% | 0.9 |
| FE-Penelec | Automated control system | Manual Controls | Warehouse | Cooling Unitary | Existing | building | 21,856 | 17% | 0.2 | 15 | \$23,927 | 51% | 0.1 |
| FE-Penelec | Automated control system | Manual Controls | Warehouse | Cooling Unitary | New | building | 21,856 | 17% | 0.2 | 15 | \$23,927 | 94% | 0.1 |
| FE-Penelec | Ceiling Insulations (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Warehouse | Cooling Unitary | Existing | building | 21,856 | 5.9% | 0.06 | 15 | \$27,901 | 71% | 0.0 |
| FE-Penelec | Ceiling Insulations (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Warehouse | Cooling Unitary | New | building | 21,856 | 3.7% | 0.04 | 15 | \$26,520 | 94% | 0.0 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Warehouse | Cooling Unitary | Existing | building | 21,856 | 1.4% | 0.04 | 15 | \$174 | 20% | 1.2 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Warehouse | Cooling Unitary | New | building | 21,856 | 1.4% | 0.04 | 15 | \$174 | 10% | 1.2 |
| FE-Penelec | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Warehouse | Cooling Unitary | Existing | building | 12,021 | 13% | 0.1 | 1 | \$115 | 73% | 0.8 |
| FE-Penelec | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Warehouse | Cooling Unitary | New | building | 12,021 | 13% | 0.1 | 1 | \$115 | 73% | 0.8 |
| FE-Penelec | ECM Motors for split systems | Std Shaded Pole Motor | Warehouse | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 35% | 2.9 |
| FE-Penelec | ECM Motors for split systems | Std Shaded Pole Motor | Warehouse | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 35% | 2.9 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Warehouse | Cooling Unitary | Existing | building | 21,856 | 7.1% | 0.07 | 15 | \$96,949 | 25% | 0.0 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Warehouse | Cooling Unitary | New | building | 21,856 | 7.1% | 0.07 | 15 | \$96,949 | 35% | 0.0 |
| FE-Penelec | Hi Eff HVAC System Design | No HVAC Design | Warehouse | Cooling Unitary | New | building | 21,856 | 12% | 0.1 | 10 | \$10,488 | 51% | 0.1 |
| FE-Penelec | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Warehouse | Cooling Unitary | Existing | building | 21,856 | 5.0% | 0.05 | 5 | \$225 | 59% | 1.1 |
| FE-Penelec | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Warehouse | Cooling Unitary | Existing | building | 21,856 | 0.7% | 0.05 | 5 | \$225 | 51% | 0.2 |
| FE-Penelec | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Warehouse | Cooling Unitary | New | building | 21,856 | 0.6% | 0.05 | 5 | \$135 | 51% | 0.4 |
| FE-Penelec | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Warehouse | Cooling Unitary | Existing | building | 21,856 | 1.1% | 0.01 | 10 | \$45,236 | 86% | 0.0 |
| FE-Penelec | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Warehouse | Cooling Unitary | New | building | 21,856 | 1.1% | 0.01 | 10 | \$45,236 | 86% | 0.0 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) | Warehouse | Cooling Unitary | Existing | building | 21,856 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.7 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Warehouse | Cooling Unitary | New | building | 21,856 | 1.7% | 0.02 | 11 | \$146 | 49% | 1.1 |
| FE-Penelec | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Warehouse | Cooling Unitary | Early | unit | 118 | 19% | 0.00 | 15 | \$849 | 80% | 0.0 |
| FE-Penelec | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Warehouse | Cooling Unitary | New | unit | 119 | 20% | 0.00 | 15 | \$356 | 80% | 0.0 |
| FE-Penelec | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Warehouse | Cooling Unitary | ROB | unit | 119 | 20% | 0.00 | 15 | \$356 | 80% | 0.0 |
| FE-Penelec | Re-Commissioning (Existing Construction) | No Re-Commissioning | Warehouse | Cooling Unitary | Existing | building | 21,856 | 16% | 0.2 | 5 | \$8,619 | 86% | 0.1 |
| FE-Penelec | Room AC (w/ louvered sides) | Existing efficiency Room AC in Pennsylvania (2000 Federal Standards) | Warehouse | Cooling Unitary | Early | ton | 2,305 | 13% | 0.1 | 9 | \$348 | 78% | 0.5 |
| FE-Penelec | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Warehouse | Cooling Unitary | New | ton | 2,090 | 4.5% | 0.03 | 9 | \$17 | 78% | 3.1 |
| FE-Penelec | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Warehouse | Cooling Unitary | ROB | ton | 2,090 | 4.5% | 0.03 | 9 | \$17 | 78% | 3.1 |
| FE-Penelec | Wall Insulations (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Warehouse | Cooling Unitary | Existing | building | 21,856 | 19% | 0.2 | 15 | \$6,551 | 26% | 0.4 |
| FE-Penelec | Wall Insulations (Going upto R 21) | Code minimum Wall Insulations | Warehouse | Cooling Unitary | New | building | 21,856 | 0.6% | 0.01 | 15 | \$5,025 | 94% | 0.0 |
| FE-Penelec | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Warehouse | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 1.1 |
| FE-Penelec | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Warehouse | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.4 |
| FE-Penelec | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Warehouse | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.4 |
| FE-Penelec | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Warehouse | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 0% | 0.2 |
| FE-Penelec | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Warehouse | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-Penelec | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Warehouse | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|--|---|-----------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Warehouse | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 48% | 0.3 |
| FE-Penelec | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Warehouse | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 48% | 0.2 |
| FE-Penelec | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Warehouse | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 48% | 2.8 |
| FE-Penelec | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Warehouse | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 48% | 2.1 |
| FE-Penelec | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Warehouse | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 48% | 2.8 |
| FE-Penelec | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Warehouse | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 48% | 2.1 |
| FE-Penelec | Photocell Controls (Outdoor) | Lighting w/ No Controls | Warehouse | Ext. Lighting | Existing | building | 287 | 28% | 0.3 | 8 | \$3,718 | 88% | 0.1 |
| FE-Penelec | Photocell Controls (Outdoor) | Lighting w/ No Controls | Warehouse | Ext. Lighting | New | building | 287 | 28% | 0.3 | 8 | \$3,718 | 0% | 0.1 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Warehouse | Heat Pump | Existing | building | 2,230 | 6.9% | 0.07 | 6 | \$20,725 | 82% | 0.0 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Warehouse | Heat Pump | New | building | 2,230 | 6.9% | 0.07 | 6 | \$20,725 | 82% | 0.0 |
| FE-Penelec | Adding window shade film | No shade film | Warehouse | Heat Pump | Existing | building | 2,230 | 3.9% | 0.4 | 10 | \$27 | 12% | 10.7 |
| FE-Penelec | Adding window shade film | No shade film | Warehouse | Heat Pump | New | building | 2,230 | 3.9% | 0.4 | 10 | \$27 | 12% | 10.7 |
| FE-Penelec | Adding window shade screen | No shade screen | Warehouse | Heat Pump | Existing | building | 2,230 | 0.3% | 0.01 | 10 | \$3.5 | 12% | 2.8 |
| FE-Penelec | Adding window shade screen | No shade screen | Warehouse | Heat Pump | New | building | 2,230 | 0.3% | 0.01 | 10 | \$3.5 | 12% | 2.8 |
| FE-Penelec | Automated control system | Manual Controls | Warehouse | Heat Pump | Existing | building | 2,230 | 17% | 0.2 | 15 | \$2,441 | 51% | 0.1 |
| FE-Penelec | Automated control system | Manual Controls | Warehouse | Heat Pump | New | building | 2,230 | 17% | 0.2 | 15 | \$2,441 | 94% | 0.1 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Warehouse | Heat Pump | Existing | building | 2,230 | 5.9% | 0.06 | 15 | \$27,901 | 71% | 0.0 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Warehouse | Heat Pump | New | building | 2,230 | 3.7% | 0.04 | 15 | \$26,520 | 94% | 0.0 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Warehouse | Heat Pump | Existing | building | 2,230 | 4.0% | 0.04 | 15 | \$18 | 12% | 4.6 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Warehouse | Heat Pump | New | building | 2,230 | 4.0% | 0.04 | 15 | \$18 | 6% | 4.6 |
| FE-Penelec | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Warehouse | Heat Pump | Early | heat pump | 2,875 | 14% | 0.03 | 15 | \$4,070 | 83% | 0.1 |
| FE-Penelec | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Warehouse | Heat Pump | New | heat pump | 2,672 | 7.5% | 0.02 | 15 | \$1,097 | 83% | 0.1 |
| FE-Penelec | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Warehouse | Heat Pump | ROB | heat pump | 2,672 | 7.5% | 0.02 | 15 | \$1,097 | 83% | 0.1 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Warehouse | Heat Pump | Existing | building | 2,230 | 7.0% | 0.07 | 15 | \$9,892 | 25% | 0.0 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Warehouse | Heat Pump | New | building | 2,230 | 7.0% | 0.07 | 15 | \$9,892 | 35% | 0.0 |
| FE-Penelec | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Warehouse | Heat Pump | Early | heat pump | 30,515 | 21% | 0.6 | 15 | \$91,117 | 19% | 0.0 |
| FE-Penelec | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Warehouse | Heat Pump | New | heat pump | 28,850 | 17% | 0.4 | 15 | \$33,927 | 19% | 0.1 |
| FE-Penelec | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Warehouse | Heat Pump | ROB | heat pump | 28,850 | 17% | 0.4 | 15 | \$33,927 | 19% | 0.1 |
| FE-Penelec | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Warehouse | Heat Pump | Early | heat pump | 30,515 | 21% | 0.6 | 15 | \$58,356 | 19% | 0.1 |
| FE-Penelec | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Warehouse | Heat Pump | New | heat pump | 28,850 | 17% | 0.4 | 15 | \$1,167 | 19% | 2.4 |
| FE-Penelec | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Warehouse | Heat Pump | ROB | heat pump | 28,850 | 17% | 0.4 | 15 | \$1,167 | 19% | 2.4 |
| FE-Penelec | Hi Eff HVAC System Design | No HVAC Design | Warehouse | Heat Pump | New | building | 2,230 | 12% | 0.1 | 10 | \$129,876 | 51% | 0.0 |
| FE-Penelec | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Warehouse | Heat Pump | Early | heat pump | 7,588 | 19% | 0.1 | 12 | \$4,298 | 81% | 0.2 |
| FE-Penelec | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Warehouse | Heat Pump | New | heat pump | 7,063 | 13% | 0.08 | 12 | \$852 | 81% | 0.5 |
| FE-Penelec | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Warehouse | Heat Pump | ROB | heat pump | 7,063 | 13% | 0.08 | 12 | \$852 | 81% | 0.5 |
| FE-Penelec | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Warehouse | Heat Pump | Existing | building | 2,230 | 5.0% | 0.01 | 5 | \$90 | 51% | 0.3 |
| FE-Penelec | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Warehouse | Heat Pump | New | building | 2,230 | 5.0% | 0.01 | 5 | \$90 | 51% | 0.3 |
| FE-Penelec | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Warehouse | Heat Pump | Existing | building | 2,230 | 1.1% | 0.01 | 10 | \$40,275 | 81% | 0.0 |
| FE-Penelec | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Warehouse | Heat Pump | New | building | 2,230 | 1.1% | 0.01 | 10 | \$40,275 | 81% | 0.0 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Warehouse | Heat Pump | Existing | building | 2,230 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.1 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Warehouse | Heat Pump | New | building | 2,230 | 2.1% | 0.02 | 11 | \$146 | 49% | 0.2 |
| FE-Penelec | Re-Commissioning (Existing Construction) | No Re-Commissioning | Warehouse | Heat Pump | Existing | building | 2,230 | 16% | 0.2 | 5 | \$8,619 | 86% | 0.0 |
| FE-Penelec | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Warehouse | Heat Pump | New | measure | 290,645 | 2.0% | 0.7 | 13 | \$36,589 | 43% | 0.1 |
| FE-Penelec | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Warehouse | Heat Pump | ROB | measure | 290,645 | 2.0% | 0.7 | 13 | \$36,589 | 43% | 0.1 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Warehouse | Heat Pump | Existing | building | 2,230 | 19% | 0.2 | 15 | \$6,551 | 26% | 0.1 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Warehouse | Heat Pump | New | building | 2,230 | 0.6% | 0.01 | 15 | \$5,025 | 94% | 0.0 |
| FE-Penelec | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Warehouse | Heat Pump | Early | heat pump | 11,574 | 27% | 0.3 | 15 | \$35,347 | 28% | 0.1 |
| FE-Penelec | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Warehouse | Heat Pump | New | heat pump | 10,628 | 21% | 0.2 | 15 | \$15,739 | 28% | 0.1 |
| FE-Penelec | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Warehouse | Heat Pump | ROB | heat pump | 10,628 | 21% | 0.2 | 15 | \$15,739 | 28% | 0.1 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | Early | Fixture | 536 | 9.6% | 0.01 | 13 | \$850 | 39% | 0.0 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Warehouse | High Bay Lighting | Early | Fixture | 535 | 9.5% | 0.01 | 13 | \$850 | 28% | 0.0 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Warehouse | High Bay Lighting | Early | Fixture | 827 | 41% | 0.08 | 13 | \$850 | 36% | 0.3 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | New | Fixture | 407 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Warehouse | High Bay Lighting | New | Fixture | 379 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Warehouse | High Bay Lighting | New | Fixture | 628 | 41% | 0.06 | 13 | \$397 | 36% | 0.4 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 536 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 499 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-Penelec | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 827 | 41% | 0.08 | 13 | \$397 | 36% | 0.6 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | Early | Fixture | 1,040 | 19% | 0.05 | 13 | \$851 | 38% | 0.2 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Warehouse | High Bay Lighting | Early | Fixture | 1,053 | 20% | 0.05 | 13 | \$851 | 38% | 0.2 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | Early | Fixture | 3,064 | 73% | 0.5 | 13 | \$851 | 38% | 1.7 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | New | Fixture | 791 | 19% | 0.03 | 13 | \$372 | 38% | 0.3 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | New | Fixture | 2,329 | 73% | 0.4 | 13 | \$383 | 38% | 2.9 |
| FE-Penelec | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 1,040 | 19% | 0.05 | 13 | \$372 | 38% | 0.4 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|---|-----------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 3,064 | 73% | 0.5 | 13 | \$383 | 38% | 3.8 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | Early | Fixture | 1,040 | 25% | 0.06 | 13 | \$554 | 29% | 0.3 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Warehouse | High Bay Lighting | Early | Fixture | 1,021 | 23% | 0.05 | 13 | \$554 | 28% | 0.3 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | Early | Fixture | 3,064 | 74% | 0.5 | 13 | \$554 | 36% | 2.7 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | New | Fixture | 791 | 25% | 0.04 | 13 | \$75 | 29% | 1.7 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | New | Fixture | 2,329 | 74% | 0.4 | 13 | \$86 | 36% | 13.2 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 1,040 | 25% | 0.06 | 13 | \$75 | 29% | 2.2 |
| FE-Penelec | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 3,064 | 74% | 0.5 | 13 | \$86 | 36% | 17.4 |
| FE-Penelec | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Warehouse | High Bay Lighting | Early | Fixture | 271 | 0.2% | 0.00 | 13 | \$835 | 38% | 0.0 |
| FE-Penelec | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Warehouse | High Bay Lighting | Early | Fixture | 584 | 54% | 0.07 | 13 | \$835 | 38% | 0.2 |
| FE-Penelec | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Warehouse | High Bay Lighting | New | Fixture | 444 | 54% | 0.05 | 13 | \$382 | 38% | 0.4 |
| FE-Penelec | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 584 | 54% | 0.07 | 13 | \$382 | 38% | 0.5 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | Early | Fixture | 1,325 | 18% | 0.05 | 13 | \$487 | 25% | 0.3 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Warehouse | High Bay Lighting | Early | Fixture | 1,386 | 22% | 0.07 | 13 | \$487 | 28% | 0.4 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | Early | Fixture | 3,064 | 65% | 0.4 | 13 | \$487 | 36% | 2.7 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | New | Fixture | 1,007 | 18% | 0.04 | 13 | \$16 | 25% | 7.4 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | New | Fixture | 2,329 | 65% | 0.3 | 13 | \$18 | 36% | 53.5 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 1,325 | 18% | 0.05 | 13 | \$16 | 25% | 9.7 |
| FE-Penelec | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 3,064 | 65% | 0.4 | 13 | \$18 | 36% | 70.4 |
| FE-Penelec | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | Early | Fixture | 1,325 | 1.5% | 0.00 | 13 | \$557 | 19% | 0.0 |
| FE-Penelec | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Warehouse | High Bay Lighting | Early | Fixture | 1,364 | 4.3% | 0.01 | 13 | \$557 | 19% | 0.1 |
| FE-Penelec | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | Early | Fixture | 3,064 | 57% | 0.4 | 13 | \$557 | 19% | 2.1 |
| FE-Penelec | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | New | Fixture | 1,007 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| FE-Penelec | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | New | Fixture | 2,329 | 57% | 0.3 | 13 | \$88 | 19% | 9.9 |
| FE-Penelec | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 1,325 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.2 |
| FE-Penelec | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 3,064 | 57% | 0.4 | 13 | \$88 | 19% | 13.0 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Warehouse | High Bay Lighting | Early | Fixture | 563 | 29% | 0.03 | 13 | \$492 | 71% | 0.2 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | Early | Fixture | 471 | 15% | 0.01 | 13 | \$492 | 95% | 0.1 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Warehouse | High Bay Lighting | Early | Fixture | 699 | 43% | 0.05 | 13 | \$492 | 95% | 0.4 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Warehouse | High Bay Lighting | Early | Fixture | 648 | 38% | 0.04 | 13 | \$492 | 95% | 0.3 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | New | Fixture | 358 | 15% | 0.01 | 13 | \$25 | 95% | 1.3 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Warehouse | High Bay Lighting | New | Fixture | 531 | 43% | 0.04 | 13 | \$51 | 95% | 2.6 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 471 | 15% | 0.01 | 13 | \$25 | 95% | 1.7 |
| FE-Penelec | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 699 | 43% | 0.05 | 13 | \$51 | 95% | 3.5 |
| FE-Penelec | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Warehouse | High Bay Lighting | Early | lamp | 77 | 16% | 0.00 | 14 | \$7.7 | 99% | 1.1 |
| FE-Penelec | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Warehouse | High Bay Lighting | New | lamp | 46 | 13% | 0.00 | 14 | \$1.6 | 91% | 2.5 |
| FE-Penelec | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Warehouse | High Bay Lighting | ROB | lamp | 74 | 13% | 0.00 | 14 | \$1.6 | 91% | 4.0 |
| FE-Penelec | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | Early | Fixture | 3,135 | 23% | 0.2 | 13 | \$613 | 5% | 0.8 |
| FE-Penelec | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Warehouse | High Bay Lighting | Early | Fixture | 2,463 | 1.6% | 0.01 | 13 | \$613 | 28% | 0.0 |
| FE-Penelec | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | Early | Fixture | 6,128 | 60% | 0.8 | 13 | \$613 | 18% | 3.9 |
| FE-Penelec | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | New | Fixture | 2,383 | 23% | 0.1 | 13 | \$96 | 5% | 3.7 |
| FE-Penelec | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 3,135 | 23% | 0.2 | 13 | \$96 | 5% | 4.8 |
| FE-Penelec | Auto Off Time Switch | Lighting w/ No Controls | Warehouse | High Bay Lighting | Existing | building | 9,952 | 24% | 0.2 | 8 | \$755 | 13% | 1.2 |
| FE-Penelec | Auto Off Time Switch | Lighting w/ No Controls | Warehouse | High Bay Lighting | New | building | 9,952 | 6.9% | 0.07 | 8 | \$755 | 0% | 0.3 |
| FE-Penelec | Central Lighting Control System | Lighting w/ No Controls | Warehouse | High Bay Lighting | Existing | building | 9,952 | 38% | 0.4 | 8 | \$755 | 13% | 1.9 |
| FE-Penelec | Central Lighting Control System | Lighting w/ No Controls | Warehouse | High Bay Lighting | New | building | 9,952 | 14% | 0.1 | 8 | \$755 | 13% | 0.7 |
| FE-Penelec | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Warehouse | High Bay Lighting | New | building | 9,952 | 10% | 0.1 | 15 | \$31,316 | 32% | 0.0 |
| FE-Penelec | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Warehouse | High Bay Lighting | New | building | 9,952 | 15% | 0.2 | 15 | \$78,291 | 32% | 0.0 |
| FE-Penelec | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Warehouse | High Bay Lighting | New | building | 9,952 | 30% | 0.3 | 15 | \$112,217 | 32% | 0.0 |
| FE-Penelec | Indoor Daylight Sensors | Lighting w/ No Controls | Warehouse | High Bay Lighting | Existing | building | 9,952 | 28% | 0.3 | 8 | \$3,718 | 13% | 0.3 |
| FE-Penelec | Indoor Daylight Sensors | Lighting w/ No Controls | Warehouse | High Bay Lighting | New | building | 9,952 | 4.1% | 0.04 | 8 | \$3,718 | 0% | 0.0 |
| FE-Penelec | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | Early | Fixture | 3,135 | 92% | 0.7 | 13 | \$1,916 | 95% | 1.0 |
| FE-Penelec | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | Early | Fixture | 6,128 | 96% | 1.3 | 13 | \$1,916 | 95% | 2.0 |
| FE-Penelec | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | New | Fixture | 2,383 | 92% | 0.5 | 13 | \$1,468 | 95% | 1.0 |
| FE-Penelec | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | New | Fixture | 4,658 | 96% | 1.0 | 13 | \$1,149 | 95% | 2.5 |
| FE-Penelec | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 3,135 | 92% | 0.7 | 13 | \$1,468 | 95% | 1.3 |
| FE-Penelec | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 6,128 | 96% | 1.3 | 13 | \$1,149 | 95% | 3.3 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | Early | Fixture | 1,040 | 67% | 0.2 | 13 | \$960 | 95% | 0.5 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Warehouse | High Bay Lighting | Early | Fixture | 3,064 | 89% | 0.6 | 13 | \$960 | 95% | 1.8 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Warehouse | High Bay Lighting | Early | Fixture | 841 | 59% | 0.1 | 13 | \$960 | 95% | 0.3 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | New | Fixture | 791 | 67% | 0.1 | 13 | \$480 | 95% | 0.7 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Warehouse | High Bay Lighting | New | Fixture | 2,329 | 89% | 0.5 | 13 | \$491 | 95% | 2.7 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Warehouse | High Bay Lighting | New | Fixture | 639 | 59% | 0.08 | 13 | \$406 | 95% | 0.6 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 1,040 | 67% | 0.2 | 13 | \$480 | 95% | 0.9 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 3,064 | 89% | 0.6 | 13 | \$491 | 95% | 3.6 |
| FE-Penelec | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 841 | 59% | 0.1 | 13 | \$406 | 95% | 0.8 |
| FE-Penelec | Occupancy Sensor | Lighting w/ No Controls | Warehouse | High Bay Lighting | Existing | building | 9,952 | 24% | 0.2 | 8 | \$1,138 | 12% | 0.8 |
| FE-Penelec | Occupancy Sensor | Lighting w/ No Controls | Warehouse | High Bay Lighting | New | building | 9,952 | 6.9% | 0.07 | 8 | \$1,138 | 0% | 0.2 |
| FE-Penelec | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Warehouse | High Bay Lighting | Existing | building | 9,952 | 28% | 0.3 | 8 | \$3,718 | 12% | 0.3 |
| FE-Penelec | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Warehouse | High Bay Lighting | New | building | 9,952 | 4.0% | 0.04 | 8 | \$3,718 | 0% | 0.0 |
| FE-Penelec | Time Clock Control | Lighting w/ No Controls | Warehouse | High Bay Lighting | Existing | building | 9,952 | 28% | 0.3 | 8 | \$755 | 13% | 1.4 |
| FE-Penelec | Time Clock Control | Lighting w/ No Controls | Warehouse | High Bay Lighting | New | building | 9,952 | 4.0% | 0.04 | 8 | \$755 | 0% | 0.2 |
| FE-Penelec | Auto Off Time Switch | Lighting w/ No Controls | Warehouse | Lin. Fluor. Lighting | Existing | building | 5,204 | 24% | 0.2 | 8 | \$755 | 13% | 0.7 |
| FE-Penelec | Auto Off Time Switch | Lighting w/ No Controls | Warehouse | Lin. Fluor. Lighting | New | building | 5,204 | 6.9% | 0.07 | 8 | \$755 | 0% | 0.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|--|-----------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Central Lighting Control System | Lighting w/ No Controls | Warehouse | Lin. Fluor. Lighting | Existing | building | 5,204 | 38% | 0.4 | 8 | \$755 | 12% | 1.1 |
| FE-Penelec | Central Lighting Control System | Lighting w/ No Controls | Warehouse | Lin. Fluor. Lighting | New | building | 5,204 | 14% | 0.1 | 8 | \$755 | 12% | 0.4 |
| FE-Penelec | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Warehouse | Lin. Fluor. Lighting | New | building | 5,204 | 10% | 0.1 | 15 | \$31,316 | 32% | 0.0 |
| FE-Penelec | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Warehouse | Lin. Fluor. Lighting | New | building | 5,204 | 15% | 0.2 | 15 | \$78,291 | 32% | 0.0 |
| FE-Penelec | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Warehouse | Lin. Fluor. Lighting | New | building | 5,204 | 30% | 0.3 | 15 | \$112,217 | 32% | 0.0 |
| FE-Penelec | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Warehouse | Lin. Fluor. Lighting | Early | Lamp | 155 | 38% | 0.01 | 14 | \$7.3 | 94% | 5.4 |
| FE-Penelec | Indoor Daylight Sensors | Lighting w/ No Controls | Warehouse | Lin. Fluor. Lighting | Existing | building | 5,204 | 28% | 0.3 | 8 | \$3,718 | 13% | 0.2 |
| FE-Penelec | Indoor Daylight Sensors | Lighting w/ No Controls | Warehouse | Lin. Fluor. Lighting | New | building | 5,204 | 4.1% | 0.04 | 8 | \$3,718 | 0% | 0.0 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | Early | Lamp | 68 | 19% | 0.00 | 15 | \$35 | 94% | 0.3 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 40W T12 Lamp, Magnetic Ballast | Warehouse | Lin. Fluor. Lighting | Early | Lamp | 149 | 63% | 0.02 | 15 | \$35 | 94% | 2.0 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | Early | Lamp | 84 | 34% | 0.01 | 15 | \$35 | 94% | 0.6 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | Early | Lamp | 81 | 32% | 0.01 | 15 | \$35 | 94% | 0.5 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | New | Lamp | 52 | 19% | 0.00 | 15 | \$28 | 94% | 0.3 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | New | Lamp | 62 | 32% | 0.00 | 15 | \$29 | 94% | 0.5 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | New | Lamp | 64 | 34% | 0.00 | 15 | \$22 | 94% | 0.7 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | New | Lamp | 62 | 32% | 0.00 | 15 | \$29 | 94% | 0.5 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | ROB | Lamp | 68 | 19% | 0.00 | 15 | \$28 | 94% | 0.3 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | ROB | Lamp | 81 | 32% | 0.01 | 15 | \$29 | 94% | 0.7 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | ROB | Lamp | 84 | 34% | 0.01 | 15 | \$22 | 94% | 1.0 |
| FE-Penelec | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | ROB | Lamp | 81 | 32% | 0.01 | 15 | \$29 | 94% | 0.7 |
| FE-Penelec | Occupancy Sensor | Lighting w/ No Controls | Warehouse | Lin. Fluor. Lighting | Existing | building | 5,204 | 24% | 0.2 | 8 | \$1,138 | 13% | 0.5 |
| FE-Penelec | Occupancy Sensor | Lighting w/ No Controls | Warehouse | Lin. Fluor. Lighting | New | building | 5,204 | 7.0% | 0.07 | 8 | \$1,138 | 0% | 0.1 |
| FE-Penelec | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Warehouse | Lin. Fluor. Lighting | Existing | building | 5,204 | 28% | 0.3 | 8 | \$3,718 | 12% | 0.2 |
| FE-Penelec | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Warehouse | Lin. Fluor. Lighting | New | building | 5,204 | 4.1% | 0.04 | 8 | \$3,718 | 0% | 0.0 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 40W T12 w/ Magnetic Ballast | Warehouse | Lin. Fluor. Lighting | Early | Lamp | 155 | 54% | 0.02 | 14 | \$9.1 | 94% | 6.2 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | Early | Lamp | 99 | 28% | 0.01 | 14 | \$9.1 | 24% | 2.1 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | Early | Lamp | 96 | 26% | 0.00 | 14 | \$9.1 | 94% | 1.8 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | New | Lamp | 73 | 26% | 0.00 | 14 | \$2.5 | 94% | 5.0 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | New | Lamp | 73 | 26% | 0.00 | 14 | \$2.5 | 94% | 5.0 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | New | Lamp | 75 | 28% | 0.00 | 14 | \$2.5 | 24% | 5.7 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | New | Lamp | 73 | 26% | 0.00 | 14 | \$2.5 | 94% | 5.0 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | ROB | Lamp | 96 | 26% | 0.00 | 14 | \$2.5 | 94% | 6.6 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | ROB | Lamp | 96 | 26% | 0.00 | 14 | \$2.5 | 94% | 6.6 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | ROB | Lamp | 99 | 28% | 0.01 | 14 | \$2.5 | 24% | 7.4 |
| FE-Penelec | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | ROB | Lamp | 96 | 26% | 0.00 | 14 | \$2.5 | 94% | 6.6 |
| FE-Penelec | T8 Lamp (any length) Electronic Ballast | Standard T12 lamp (any length) | Warehouse | Lin. Fluor. Lighting | Early | Lamp | 182 | 42% | 0.01 | 14 | \$14 | 94% | 3.7 |
| FE-Penelec | Time Clock Control | Lighting w/ No Controls | Warehouse | Lin. Fluor. Lighting | Existing | building | 5,204 | 28% | 0.3 | 8 | \$755 | 14% | 0.8 |
| FE-Penelec | Time Clock Control | Lighting w/ No Controls | Warehouse | Lin. Fluor. Lighting | New | building | 5,204 | 4.1% | 0.04 | 8 | \$755 | 0% | 0.1 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | Early | motor | 2,728 | 3.6% | 0.01 | 15 | \$374 | 76% | 0.2 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | Early | motor | 2,728 | 3.6% | 0.01 | 15 | \$374 | 76% | 0.2 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | Early | motor | 2,728 | 3.6% | 0.01 | 15 | \$374 | 76% | 0.2 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | Early | motor | 2,728 | 3.6% | 0.01 | 15 | \$374 | 76% | 0.2 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | Early | motor | 2,728 | 3.6% | 0.01 | 15 | \$374 | 76% | 0.2 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | New | motor | 2,644 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | New | motor | 2,644 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | New | motor | 2,644 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | ROB | motor | 2,644 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | ROB | motor | 2,644 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | ROB | motor | 2,644 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-Penelec | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | ROB | motor | 2,644 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-Penelec | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | Early | motor | 4,022 | 3.1% | 0.02 | 15 | \$402 | 76% | 0.2 |
| FE-Penelec | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | Early | motor | 4,022 | 3.1% | 0.02 | 15 | \$402 | 76% | 0.2 |
| FE-Penelec | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | Early | motor | 4,022 | 3.1% | 0.02 | 15 | \$402 | 76% | 0.2 |
| FE-Penelec | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | Early | motor | 4,022 | 3.1% | 0.02 | 15 | \$402 | 76% | 0.2 |
| FE-Penelec | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | New | motor | 3,921 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.2 |
| FE-Penelec | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | New | motor | 3,921 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.2 |
| FE-Penelec | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | New | motor | 3,921 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.2 |
| FE-Penelec | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | New | motor | 3,921 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|--|---|-----------|---------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | Early | motor | 179,979 | 1.3% | 0.3 | 15 | \$3,955 | 61% | 0.4 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | Early | motor | 179,979 | 1.3% | 0.3 | 15 | \$3,955 | 61% | 0.4 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | Early | motor | 179,979 | 1.3% | 0.4 | 15 | \$3,955 | 61% | 0.4 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | Early | motor | 179,979 | 1.3% | 0.3 | 15 | \$3,955 | 61% | 0.4 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | New | motor | 178,495 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.1 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | New | motor | 178,495 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.1 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | New | motor | 178,495 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.1 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | ROB | motor | 178,495 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.1 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | ROB | motor | 178,495 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.1 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | ROB | motor | 178,495 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.1 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | ROB | motor | 178,495 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.1 |
| FE-Penelec | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | ROB | motor | 178,495 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.1 |
| FE-Penelec | ASD HVAC Fan | Std. HVAC Fan | Warehouse | Motors | New | measure | 2,003 | 9.1% | 0.02 | 15 | \$3,702 | 85% | 0.0 |
| FE-Penelec | ASD HVAC Fan | Std. HVAC Fan | Warehouse | Motors | ROB | measure | 2,003 | 9.1% | 0.02 | 15 | \$3,702 | 85% | 0.0 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Warehouse | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 21.8 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Warehouse | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 22.4 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Warehouse | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 22.5 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Warehouse | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 22.9 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Warehouse | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 23.7 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Warehouse | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 21.9 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Warehouse | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 22.3 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Warehouse | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 22.5 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Warehouse | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 23.0 |
| FE-Penelec | Downsizing motor during retrofit | Larger hp standard motor | Warehouse | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 23.7 |
| FE-Penelec | Escalator Motor Controller | Constant power control | Warehouse | Motors | New | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 67% | 5.9 |
| FE-Penelec | Escalator Motor Controller | Constant power control | Warehouse | Motors | ROB | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 67% | 5.9 |
| FE-Penelec | Variable Speed Drive Control, 15HP | Existing Motors w/out VSD Drive | Warehouse | Motors | Early | motor | 37,268 | 70% | 3.8 | 15 | \$731 | 86% | 23.8 |
| FE-Penelec | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Warehouse | Motors | New | motor | 36,467 | 72% | 3.8 | 15 | \$731 | 86% | 23.8 |
| FE-Penelec | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Warehouse | Motors | ROB | motor | 36,467 | 72% | 3.8 | 15 | \$731 | 86% | 23.8 |
| FE-Penelec | Variable Speed Drive Control, 40HP | Existing Motors w/out VSD Drive | Warehouse | Motors | Early | motor | 97,245 | 71% | 10.1 | 15 | \$4,666 | 86% | 9.8 |
| FE-Penelec | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Warehouse | Motors | New | motor | 96,108 | 72% | 10.1 | 15 | \$4,666 | 86% | 9.8 |
| FE-Penelec | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Warehouse | Motors | ROB | motor | 96,108 | 72% | 10.1 | 15 | \$4,666 | 86% | 9.8 |
| FE-Penelec | Variable Speed Drive Control, 5HP | Existing Motors w/out VFD Drive | Warehouse | Motors | Early | motor | 12,920 | 70% | 1.3 | 15 | \$2,243 | 86% | 2.7 |
| FE-Penelec | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Warehouse | Motors | New | motor | 12,631 | 72% | 1.3 | 15 | \$2,243 | 86% | 2.7 |
| FE-Penelec | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Warehouse | Motors | ROB | motor | 12,631 | 72% | 1.3 | 15 | \$2,243 | 86% | 2.7 |
| FE-Penelec | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Warehouse | Motors | Early | motor | 3,717 | 30% | 0.1 | 15 | \$268 | 13% | 2.6 |
| FE-Penelec | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Warehouse | Motors | New | motor | 3,717 | 30% | 0.1 | 15 | \$268 | 13% | 2.6 |
| FE-Penelec | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Warehouse | Motors | ROB | motor | 3,717 | 30% | 0.1 | 15 | \$268 | 13% | 2.6 |
| FE-Penelec | VFD on Chilled Water Pump | Motor w/out VFD Drive | Warehouse | Motors | Early | motor | 15,151 | 54% | 2.7 | 15 | \$2,903 | 86% | 2.3 |
| FE-Penelec | VFD on Chilled Water Pump | Motor w/out VFD Drive | Warehouse | Motors | New | motor | 14,867 | 55% | 2.7 | 15 | \$2,843 | 86% | 2.3 |
| FE-Penelec | VFD on Chilled Water Pump | Motor w/out VFD Drive | Warehouse | Motors | ROB | motor | 14,867 | 55% | 2.7 | 15 | \$2,843 | 86% | 2.3 |
| FE-Penelec | VFD on Condenser Water Pump | Motor w/out VFD Drive | Warehouse | Motors | Early | motor | 15,040 | 32% | 3.2 | 15 | \$2,903 | 86% | 1.9 |
| FE-Penelec | VFD on Condenser Water Pump | Motor w/out VFD Drive | Warehouse | Motors | New | motor | 14,759 | 33% | 3.1 | 15 | \$2,843 | 86% | 1.9 |
| FE-Penelec | VFD on Condenser Water Pump | Motor w/out VFD Drive | Warehouse | Motors | ROB | motor | 14,759 | 33% | 3.1 | 15 | \$2,843 | 86% | 1.9 |
| FE-Penelec | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Warehouse | Motors | Early | motor | 31,171 | 56% | 0.00 | 15 | \$2,903 | 86% | 3.0 |
| FE-Penelec | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Warehouse | Motors | New | motor | 30,588 | 57% | 0.00 | 15 | \$2,843 | 86% | 3.1 |
| FE-Penelec | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Warehouse | Motors | ROB | motor | 30,588 | 57% | 0.00 | 15 | \$2,843 | 86% | 3.1 |
| FE-Penelec | VFD on HVAC Fan | Motor w/out VFD | Warehouse | Motors | Early | motor | 15,151 | 70% | 3.4 | 15 | \$2,903 | 86% | 3.0 |
| FE-Penelec | VFD on HVAC Fan | Motor w/out VFD | Warehouse | Motors | New | motor | 14,867 | 72% | 3.3 | 15 | \$2,843 | 86% | 3.1 |
| FE-Penelec | VFD on HVAC Fan | Motor w/out VFD | Warehouse | Motors | ROB | motor | 14,867 | 72% | 3.3 | 15 | \$2,843 | 86% | 3.1 |
| FE-Penelec | Elevators | Std. Eff Elevator | Warehouse | Other | ROB | measure | 89,016 | 0.3% | 0.00 | 15 | \$86 | 63% | 1.6 |
| FE-Penelec | Variable Speed Drives on Process Equipment | Constant speed control | Warehouse | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 9% | 10.6 |
| FE-Penelec | Variable Speed Drives on Process Equipment | Constant speed control | Warehouse | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 9% | 10.6 |
| FE-Penelec | Auto Off Time Switch | Lighting w/ No Controls | Warehouse | Other Int. Lighting | Existing | building | 5,600 | 24% | 0.2 | 8 | \$755 | 13% | 0.7 |
| FE-Penelec | Auto Off Time Switch | Lighting w/ No Controls | Warehouse | Other Int. Lighting | New | building | 5,600 | 7.0% | 0.07 | 8 | \$755 | 0% | 0.2 |
| FE-Penelec | Central Lighting Control System | Lighting w/ No Controls | Warehouse | Other Int. Lighting | Existing | building | 5,600 | 38% | 0.4 | 8 | \$755 | 13% | 1.2 |
| FE-Penelec | Central Lighting Control System | Lighting w/ No Controls | Warehouse | Other Int. Lighting | New | building | 5,600 | 14% | 0.1 | 8 | \$755 | 13% | 0.4 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 40W Incandescent Bulb | Warehouse | Other Int. Lighting | Early | lamp | 157 | 87% | 0.03 | 10 | \$30 | 14% | 2.4 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Warehouse | Other Int. Lighting | Early | lamp | 112 | 81% | 0.02 | 10 | \$30 | 11% | 1.6 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Warehouse | Other Int. Lighting | New | lamp | 85 | 81% | 0.02 | 10 | \$21 | 14% | 1.7 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Warehouse | Other Int. Lighting | New | lamp | 85 | 81% | 0.02 | 10 | \$23 | 14% | 1.6 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Warehouse | Other Int. Lighting | New | lamp | 85 | 81% | 0.02 | 10 | \$22 | 11% | 1.7 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Warehouse | Other Int. Lighting | ROB | lamp | 112 | 81% | 0.02 | 10 | \$21 | 14% | 2.2 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Warehouse | Other Int. Lighting | ROB | lamp | 112 | 81% | 0.02 | 10 | \$23 | 14% | 2.1 |
| FE-Penelec | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Warehouse | Other Int. Lighting | ROB | lamp | 112 | 81% | 0.02 | 10 | \$22 | 11% | 2.2 |
| FE-Penelec | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Warehouse | Other Int. Lighting | Early | lamp | 157 | 75% | 0.03 | 4 | \$73 | 39% | 0.4 |
| FE-Penelec | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Warehouse | Other Int. Lighting | New | fixture | 171 | 65% | 0.02 | 13 | \$29 | 46% | 2.5 |
| FE-Penelec | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Warehouse | Other Int. Lighting | New | lamp | 85 | 65% | 0.01 | 4 | \$29 | 46% | 0.5 |
| FE-Penelec | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Warehouse | Other Int. Lighting | ROB | fixture | 225 | 65% | 0.03 | 13 | \$29 | 39% | 3.3 |
| FE-Penelec | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Warehouse | Other Int. Lighting | ROB | lamp | 112 | 65% | 0.02 | 4 | \$29 | 39% | 0.6 |
| FE-Penelec | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Warehouse | Other Int. Lighting | Early | lamp | 157 | 75% | 0.03 | 4 | \$3.2 | 24% | 9.0 |
| FE-Penelec | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Warehouse | Other Int. Lighting | New | lamp | 85 | 65% | 0.01 | 4 | \$1.8 | 24% | 7.6 |
| FE-Penelec | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Warehouse | Other Int. Lighting | ROB | lamp | 112 | 65% | 0.02 | 4 | \$1.8 | 24% | 10.0 |
| FE-Penelec | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Warehouse | Other Int. Lighting | ROB | lamp | 112 | 65% | 0.02 | 4 | \$1.8 | 24% | 10.0 |
| FE-Penelec | Exit Sign Retrofit: CFL replacing Incandescent | One 23W Single Sided Incandescent Exit Sign | Warehouse | Other Int. Lighting | Early | exit sign | 140 | 42% | 0.01 | 15 | \$48 | 22% | 0.8 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|---|-----------|---------------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Warehouse | Other Int. Lighting | New | building | 5,600 | 10% | 0.1 | 15 | \$31,316 | 32% | 0.0 |
| FE-Penelec | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Warehouse | Other Int. Lighting | New | building | 5,600 | 15% | 0.2 | 15 | \$78,291 | 32% | 0.0 |
| FE-Penelec | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Warehouse | Other Int. Lighting | New | building | 5,600 | 30% | 0.3 | 15 | \$112,217 | 32% | 0.0 |
| FE-Penelec | Indoor Daylight Sensors | Lighting w/ No Controls | Warehouse | Other Int. Lighting | Existing | building | 5,600 | 28% | 0.3 | 8 | \$3,718 | 13% | 0.2 |
| FE-Penelec | Indoor Daylight Sensors | Lighting w/ No Controls | Warehouse | Other Int. Lighting | New | building | 5,600 | 4.1% | 0.04 | 8 | \$3,718 | 0% | 0.0 |
| FE-Penelec | LED Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Warehouse | Other Int. Lighting | Early | sign | 153 | 87% | 0.02 | 15 | \$48 | 16% | 1.8 |
| FE-Penelec | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Warehouse | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 2.0 |
| FE-Penelec | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Warehouse | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 2.0 |
| FE-Penelec | LED Task Lighting/Screw-In | 1 15W CFL bulb | Warehouse | Other Int. Lighting | Early | lamp | 43 | 33% | 0.00 | 9 | \$9.6 | 24% | 0.7 |
| FE-Penelec | LED Task Lighting/Screw-In | 1 60W Incandescent Bulb | Warehouse | Other Int. Lighting | Early | lamp | 173 | 83% | 0.03 | 9 | \$9.6 | 24% | 7.2 |
| FE-Penelec | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Warehouse | Other Int. Lighting | New | lamp | 94 | 77% | 0.01 | 9 | \$7.9 | 24% | 4.3 |
| FE-Penelec | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Warehouse | Other Int. Lighting | New | lamp | 94 | 77% | 0.01 | 9 | \$7.9 | 24% | 4.3 |
| FE-Penelec | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Warehouse | Other Int. Lighting | ROB | lamp | 124 | 77% | 0.02 | 9 | \$7.9 | 24% | 5.7 |
| FE-Penelec | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Warehouse | Other Int. Lighting | ROB | lamp | 124 | 77% | 0.02 | 9 | \$7.9 | 24% | 5.7 |
| FE-Penelec | Occupancy Sensor | Lighting w/ No Controls | Warehouse | Other Int. Lighting | Existing | building | 5,600 | 24% | 0.2 | 8 | \$1,138 | 12% | 0.5 |
| FE-Penelec | Occupancy Sensor | Lighting w/ No Controls | Warehouse | Other Int. Lighting | New | building | 5,600 | 7.0% | 0.07 | 8 | \$1,138 | 0% | 0.1 |
| FE-Penelec | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Warehouse | Other Int. Lighting | Existing | building | 5,600 | 28% | 0.3 | 8 | \$3,718 | 12% | 0.2 |
| FE-Penelec | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Warehouse | Other Int. Lighting | New | building | 5,600 | 4.1% | 0.04 | 8 | \$3,718 | 0% | 0.0 |
| FE-Penelec | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Warehouse | Other Int. Lighting | Early | exit sign | 140 | 100% | 0.02 | 15 | \$173 | 26% | 0.5 |
| FE-Penelec | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Warehouse | Other Int. Lighting | New | exit sign | 81 | 100% | 0.01 | 15 | \$148 | 31% | 0.4 |
| FE-Penelec | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Warehouse | Other Int. Lighting | ROB | exit sign | 81 | 100% | 0.01 | 15 | \$148 | 26% | 0.4 |
| FE-Penelec | Time Clock Control | Lighting w/ No Controls | Warehouse | Other Int. Lighting | Existing | building | 5,600 | 28% | 0.3 | 8 | \$755 | 13% | 0.9 |
| FE-Penelec | Time Clock Control | Lighting w/ No Controls | Warehouse | Other Int. Lighting | New | building | 5,600 | 4.1% | 0.04 | 8 | \$755 | 0% | 0.1 |
| FE-Penelec | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Warehouse | Plug Load | Existing | building | 1,093 | 46% | 0.5 | 5 | \$189 | 4% | 1.5 |
| FE-Penelec | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Warehouse | Plug Load | New | building | 1,093 | 46% | 0.5 | 5 | \$189 | 4% | 1.5 |
| FE-Penelec | Data Center - Server/Storage Consolidation | No Consolidation | Warehouse | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penelec | Data Center - Server/Storage Consolidation | No Consolidation | Warehouse | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penelec | Data Center - Server/Storage Virtualization | No Virtualization | Warehouse | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penelec | Data Center - Server/Storage Virtualization | No Virtualization | Warehouse | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penelec | Energy Star - Scanners | Std Scanner | Warehouse | Plug Load | New | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| FE-Penelec | Energy Star - Scanners | Std Scanner | Warehouse | Plug Load | ROB | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| FE-Penelec | Energy Star Dishwasher | Existing Dishwasher units | Warehouse | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,550 | 1% | 1.0 |
| FE-Penelec | Energy Star Dishwasher | Standard Dishwasher unit | Warehouse | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,003 | 1% | 3.5 |
| FE-Penelec | Energy Star Dishwasher | Standard Dishwasher unit | Warehouse | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,003 | 1% | 3.5 |
| FE-Penelec | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Warehouse | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 16% | 0.2 |
| FE-Penelec | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Warehouse | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 16% | 2.0 |
| FE-Penelec | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Warehouse | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 16% | 2.0 |
| FE-Penelec | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Warehouse | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 9% | 0.8 |
| FE-Penelec | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Warehouse | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.7 |
| FE-Penelec | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Warehouse | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.7 |
| FE-Penelec | ENERGY STAR® Copiers | 10% Less Efficient Copier | Warehouse | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 17% | 0.0 |
| FE-Penelec | ENERGY STAR® Copiers | One Conventional Copier | Warehouse | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 17% | 0.0 |
| FE-Penelec | ENERGY STAR® Copiers | One Conventional Copier | Warehouse | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 17% | 0.0 |
| FE-Penelec | ENERGY STAR® desktop | Standard computer | Warehouse | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 69% | 0.1 |
| FE-Penelec | ENERGY STAR® desktop | Standard computer | Warehouse | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.3 |
| FE-Penelec | ENERGY STAR® desktop | Standard computer | Warehouse | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.3 |
| FE-Penelec | ENERGY STAR® Fax | 10% Less Efficient Fax | Warehouse | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 15% | 0.0 |
| FE-Penelec | ENERGY STAR® Fax | One Conventional Fax | Warehouse | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| FE-Penelec | ENERGY STAR® Fax | One Conventional Fax | Warehouse | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| FE-Penelec | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Warehouse | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 69% | 0.0 |
| FE-Penelec | ENERGY STAR® Monitors | One Conventional Monitor | Warehouse | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 69% | 0.0 |
| FE-Penelec | ENERGY STAR® Monitors | One Conventional Monitor | Warehouse | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 69% | 0.0 |
| FE-Penelec | ENERGY STAR® Printers | 10% Less Efficient Printer | Warehouse | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 43% | 0.0 |
| FE-Penelec | ENERGY STAR® Printers | One Conventional Printer | Warehouse | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 43% | 0.3 |
| FE-Penelec | ENERGY STAR® Printers | One Conventional Printer | Warehouse | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$130 | 43% | 0.3 |
| FE-Penelec | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Warehouse | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 43% | 0.1 |
| FE-Penelec | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Warehouse | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.7 |
| FE-Penelec | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Warehouse | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.7 |
| FE-Penelec | ENERGY STAR® Televisions | 10% Less Efficient Television | Warehouse | Plug Load | Early | Unit | 199 | 38% | 0.01 | 6 | \$672 | 41% | 0.0 |
| FE-Penelec | ENERGY STAR® Televisions | One Conventional Television | Warehouse | Plug Load | New | Unit | 181 | 32% | 0.01 | 6 | \$206 | 41% | 0.1 |
| FE-Penelec | ENERGY STAR® Televisions | One Conventional Television | Warehouse | Plug Load | ROB | Unit | 181 | 32% | 0.01 | 6 | \$206 | 41% | 0.1 |
| FE-Penelec | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Warehouse | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 24% | 0.3 |
| FE-Penelec | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Warehouse | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.6 |
| FE-Penelec | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Warehouse | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.6 |
| FE-Penelec | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Warehouse | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|--|-----------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Warehouse | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.3 |
| FE-Penelec | Network PC Power Management | No PC Power Management | Warehouse | Plug Load | Existing | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 7.3 |
| FE-Penelec | Network PC Power Management | No PC Power Management | Warehouse | Plug Load | New | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 7.3 |
| FE-Penelec | Smart Strip Plug Outlets | Standard plug strip/outlet | Warehouse | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.4 |
| FE-Penelec | Smart Strip Plug Outlets | Standard plug strip/outlet | Warehouse | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.4 |
| FE-Penelec | Smart Strip Plug Outlets | Standard plug strip/outlet | Warehouse | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Penelec | Smart Strip Plug Outlets | Standard plug strip/outlet | Warehouse | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Penelec | Smart Strip Plug Outlets | Standard plug strip/outlet | Warehouse | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Penelec | Smart Strip Plug Outlets | Standard plug strip/outlet | Warehouse | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-Penelec | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Warehouse | Plug Load | Existing | building | 1,093 | 46% | 0.5 | 5 | \$180 | 3% | 1.6 |
| FE-Penelec | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Warehouse | Plug Load | New | building | 1,093 | 46% | 0.5 | 5 | \$180 | 3% | 1.6 |
| FE-Penelec | Auto Closer on Refrigerator Door | Door w/out Autocloser | Warehouse | Refrigeration | Existing | building | 5,687 | 8.2% | 0.08 | 8 | \$642 | 40% | 0.3 |
| FE-Penelec | Auto Closer on Refrigerator Door | Door w/out Autocloser | Warehouse | Refrigeration | Existing | building | 19,052 | 3.4% | 0.03 | 8 | \$476 | 40% | 0.4 |
| FE-Penelec | Auto Closer on Refrigerator Door | Door w/out Autocloser | Warehouse | Refrigeration | New | building | 5,687 | 8.2% | 0.08 | 8 | \$642 | 40% | 0.3 |
| FE-Penelec | Auto Closer on Refrigerator Door | Door w/out Autocloser | Warehouse | Refrigeration | New | building | 19,052 | 3.4% | 0.03 | 8 | \$476 | 40% | 0.4 |
| FE-Penelec | Door Gasket- Freezer | Door w/out Gasket | Warehouse | Refrigeration | Existing | building | 5,687 | 4.4% | 0.04 | 4 | \$66 | 29% | 0.8 |
| FE-Penelec | Door Gasket- Freezer | Door w/out Gasket | Warehouse | Refrigeration | New | building | 5,687 | 4.4% | 0.04 | 4 | \$66 | 29% | 0.8 |
| FE-Penelec | Door Gasket- Refrigerator | Door w/out Gasket | Warehouse | Refrigeration | Existing | building | 19,052 | 1.1% | 0.01 | 4 | \$66 | 45% | 0.6 |
| FE-Penelec | Door Gasket- Refrigerator | Door w/out Gasket | Warehouse | Refrigeration | New | building | 19,052 | 1.1% | 0.01 | 4 | \$66 | 45% | 0.6 |
| FE-Penelec | eCube | Refrigeration unit w/out eCube | Warehouse | Refrigeration | Existing | building | 19,052 | 15% | 0.2 | 15 | \$144 | 57% | 10.9 |
| FE-Penelec | eCube | Refrigeration unit w/out eCube | Warehouse | Refrigeration | New | building | 19,052 | 15% | 0.2 | 15 | \$144 | 57% | 10.9 |
| FE-Penelec | Efficient compressor motor | Base Refrigeration System - Grocery | Warehouse | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.6 |
| FE-Penelec | Efficient compressor motor | Base Refrigeration System - Grocery | Warehouse | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.6 |
| FE-Penelec | Efficient compressor motor | Base Refrigeration System - Grocery | Warehouse | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.6 |
| FE-Penelec | Efficient compressor motor | Base Refrigeration System - Grocery | Warehouse | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.6 |
| FE-Penelec | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Warehouse | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.5 |
| FE-Penelec | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Warehouse | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| FE-Penelec | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Warehouse | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| FE-Penelec | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Warehouse | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.3 |
| FE-Penelec | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Warehouse | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.7 |
| FE-Penelec | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Warehouse | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.7 |
| FE-Penelec | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Warehouse | Refrigeration | Existing | building | 19,052 | 0.6% | 0.01 | 10 | \$369 | 77% | 0.1 |
| FE-Penelec | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Warehouse | Refrigeration | New | building | 19,052 | 0.6% | 0.01 | 10 | \$369 | 77% | 0.1 |
| FE-Penelec | Floating head pressure controller | System w/out FHPC | Warehouse | Refrigeration | Existing | building | 5,687 | 4.0% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penelec | Floating head pressure controller | System w/out FHPC | Warehouse | Refrigeration | Existing | building | 19,052 | 0.4% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penelec | Floating head pressure controller | System w/out FHPC | Warehouse | Refrigeration | New | building | 5,687 | 4.0% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penelec | Floating head pressure controller | System w/out FHPC | Warehouse | Refrigeration | New | building | 19,052 | 0.4% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penelec | High Efficiency Commercial Freezer | Std. Commercial Freezer | Warehouse | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 86% | 0.3 |
| FE-Penelec | High Efficiency Commercial Freezer | Std. Commercial Freezer | Warehouse | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 3.8 |
| FE-Penelec | High Efficiency Commercial Freezer | Std. Commercial Freezer | Warehouse | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 3.8 |
| FE-Penelec | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Warehouse | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 2% | 0.1 |
| FE-Penelec | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Warehouse | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.8 |
| FE-Penelec | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Warehouse | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.8 |
| FE-Penelec | High Efficiency Ice Maker | Existing Standard Efficiency Ice Maker in Pennsylvania | Warehouse | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 73% | 0.1 |
| FE-Penelec | High Efficiency Ice Maker | Standard code minimum Ice Maker | Warehouse | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| FE-Penelec | High Efficiency Ice Maker | Standard code minimum Ice Maker | Warehouse | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| FE-Penelec | High Efficiency Ice Making Head | Standard Ice Making Head | Warehouse | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.7 |
| FE-Penelec | High Efficiency Ice Making Head | Standard Ice Making Head | Warehouse | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.7 |
| FE-Penelec | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Warehouse | Refrigeration | Early | Fixture | 373 | 56% | 0.02 | 8 | \$448 | 47% | 0.2 |
| FE-Penelec | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Warehouse | Refrigeration | New | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 47% | 0.3 |
| FE-Penelec | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Warehouse | Refrigeration | ROB | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 47% | 0.3 |
| FE-Penelec | Quick acting freezer doors | Std. Freezer Doors | Warehouse | Refrigeration | Existing | building | 5,687 | 13% | 0.1 | 10 | \$2,256 | 56% | 0.2 |
| FE-Penelec | Quick acting freezer doors | Std. Freezer Doors | Warehouse | Refrigeration | New | building | 5,687 | 13% | 0.1 | 10 | \$2,256 | 56% | 0.2 |
| FE-Penelec | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Warehouse | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 30% | 0.4 |
| FE-Penelec | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Warehouse | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.5 |
| FE-Penelec | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Warehouse | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.5 |
| FE-Penelec | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 30% | 1.6 |
| FE-Penelec | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 2.8 |
| FE-Penelec | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 2.8 |
| FE-Penelec | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 30% | 1.6 |
| FE-Penelec | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 3.8 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|--|-----------|-----------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 3.8 |
| FE-Penelec | Refrigeration Commissioning | Non-commissioned refrigeration system | Warehouse | Refrigeration | Existing | building | 28,435 | 9.5% | 0.10 | 3 | \$4,963 | 85% | 0.1 |
| FE-Penelec | Refrigeration Commissioning | Non-commissioned refrigeration system | Warehouse | Refrigeration | New | building | 28,435 | 9.5% | 0.10 | 3 | \$4,963 | 85% | 0.1 |
| FE-Penelec | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Warehouse | Refrigeration | Existing | building | 5,687 | 11% | 0.1 | 4 | \$80 | 22% | 1.6 |
| FE-Penelec | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Warehouse | Refrigeration | Existing | building | 19,052 | 1.5% | 0.02 | 4 | \$80 | 22% | 0.6 |
| FE-Penelec | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Warehouse | Refrigeration | New | building | 5,687 | 11% | 0.1 | 4 | \$80 | 22% | 1.6 |
| FE-Penelec | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Warehouse | Refrigeration | New | building | 19,052 | 1.5% | 0.02 | 4 | \$80 | 22% | 0.6 |
| FE-Penelec | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Warehouse | Refrigeration | Existing | building | 5,687 | 2.6% | 0.03 | 11 | \$152 | 80% | 0.5 |
| FE-Penelec | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Warehouse | Refrigeration | New | building | 5,687 | 2.6% | 0.03 | 11 | \$152 | 80% | 0.5 |
| FE-Penelec | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Warehouse | Refrigeration | Existing | building | 19,052 | 2.0% | 0.02 | 11 | \$152 | 80% | 1.0 |
| FE-Penelec | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Warehouse | Refrigeration | New | building | 19,052 | 2.0% | 0.02 | 11 | \$152 | 80% | 1.0 |
| FE-Penelec | VSD Controlled Compressor | Compressor w/out VSD | Warehouse | Refrigeration | Early | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |
| FE-Penelec | VSD Controlled Compressor | Compressor w/out VSD | Warehouse | Refrigeration | New | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |
| FE-Penelec | VSD Controlled Compressor | Compressor w/out VSD | Warehouse | Refrigeration | ROB | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |
| FE-Penelec | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Warehouse | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$269 | 35% | 0.9 |
| FE-Penelec | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Warehouse | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$269 | 35% | 0.8 |
| FE-Penelec | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Warehouse | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.0 |
| FE-Penelec | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Warehouse | Refrigeration | New | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 2.9 |
| FE-Penelec | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Warehouse | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.0 |
| FE-Penelec | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Warehouse | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 2.9 |
| FE-Penelec | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 35% | 2.3 |
| FE-Penelec | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 35% | 2.2 |
| FE-Penelec | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 4.9 |
| FE-Penelec | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.6 |
| FE-Penelec | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 4.9 |
| FE-Penelec | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.6 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Warehouse | Space Heating | Existing | building | 11,518 | 7.1% | 0.07 | 6 | \$20,725 | 82% | 0.0 |
| FE-Penelec | Adding reflective roof treatment | Std color roof | Warehouse | Space Heating | New | building | 11,518 | 7.1% | 0.07 | 6 | \$20,725 | 82% | 0.0 |
| FE-Penelec | Adding window shade film | No shade film | Warehouse | Space Heating | Existing | building | 11,518 | 1.3% | 0.4 | 10 | \$140 | 13% | 2.2 |
| FE-Penelec | Adding window shade film | No shade film | Warehouse | Space Heating | New | building | 11,518 | 1.3% | 0.4 | 10 | \$140 | 13% | 2.2 |
| FE-Penelec | Adding window shade screen | No shade screen | Warehouse | Space Heating | Existing | building | 11,518 | 1.1% | 0.01 | 10 | \$54 | 13% | 0.9 |
| FE-Penelec | Adding window shade screen | No shade screen | Warehouse | Space Heating | New | building | 11,518 | 1.1% | 0.01 | 10 | \$54 | 13% | 0.9 |
| FE-Penelec | Automated control system | Manual Controls | Warehouse | Space Heating | Existing | building | 11,518 | 17% | 0.2 | 15 | \$12,610 | 51% | 0.1 |
| FE-Penelec | Automated control system | Manual Controls | Warehouse | Space Heating | New | building | 11,518 | 17% | 0.2 | 15 | \$12,610 | 94% | 0.1 |
| FE-Penelec | Ceiling Insulations (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Warehouse | Space Heating | Existing | building | 11,518 | 5.9% | 0.06 | 15 | \$27,901 | 71% | 0.0 |
| FE-Penelec | Ceiling Insulations (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Warehouse | Space Heating | New | building | 11,518 | 3.7% | 0.04 | 15 | \$26,520 | 94% | 0.0 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Warehouse | Space Heating | Existing | building | 11,518 | 1.4% | 0.04 | 15 | \$91 | 20% | 1.3 |
| FE-Penelec | Duct Insulation, Add R8 | No Insulation | Warehouse | Space Heating | New | building | 11,518 | 1.4% | 0.04 | 15 | \$91 | 10% | 1.3 |
| FE-Penelec | Efficient Unit Heating System | Existing Unit Heaters in PA | Warehouse | Space Heating | Early | heater | 19,979 | 23% | 0.03 | 15 | \$3,289 | 83% | 0.7 |
| FE-Penelec | Efficient Unit Heating System | Std. Unit Heater | Warehouse | Space Heating | New | heater | 17,732 | 13% | 0.02 | 15 | \$1,991 | 83% | 0.6 |
| FE-Penelec | Efficient Unit Heating System | Std. Unit Heater | Warehouse | Space Heating | ROB | heater | 17,732 | 13% | 0.02 | 15 | \$1,991 | 83% | 0.6 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Warehouse | Space Heating | Existing | building | 11,518 | 7.1% | 0.07 | 15 | \$51,093 | 25% | 0.0 |
| FE-Penelec | Green Roof (New construction or roof replacement) | Std Roof | Warehouse | Space Heating | New | building | 11,518 | 7.1% | 0.07 | 15 | \$51,093 | 35% | 0.0 |
| FE-Penelec | Hi Eff HVAC System Design | No HVAC Design | Warehouse | Space Heating | New | building | 11,518 | 12% | 0.1 | 10 | \$129,876 | 51% | 0.0 |
| FE-Penelec | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Warehouse | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$76 | 80% | 1.0 |
| FE-Penelec | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Warehouse | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$76 | 80% | 1.0 |
| FE-Penelec | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Warehouse | Space Heating | Existing | building | 11,518 | 1.1% | 0.01 | 10 | \$7,735 | 81% | 0.0 |
| FE-Penelec | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Warehouse | Space Heating | New | building | 11,518 | 1.1% | 0.01 | 10 | \$7,735 | 81% | 0.0 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Warehouse | Space Heating | Existing | building | 11,518 | 3.6% | 0.04 | 11 | \$286 | 49% | 0.6 |
| FE-Penelec | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Warehouse | Space Heating | New | building | 11,518 | 3.1% | 0.03 | 11 | \$146 | 49% | 1.0 |
| FE-Penelec | Re-Commissioning (Existing Construction) | No Re-Commissioning | Warehouse | Space Heating | Existing | building | 11,518 | 16% | 0.2 | 5 | \$8,619 | 86% | 0.0 |
| FE-Penelec | VFD on Cooling Tower Fan | Motor w/out VFD | Warehouse | Space Heating | Early | motor | 15,151 | 70% | 3.4 | 15 | \$2,843 | 88% | 2.9 |
| FE-Penelec | VFD on Cooling Tower Fan | Motor w/out VFD | Warehouse | Space Heating | New | motor | 14,867 | 72% | 3.3 | 15 | \$2,843 | 88% | 2.9 |
| FE-Penelec | VFD on Cooling Tower Fan | Motor w/out VFD | Warehouse | Space Heating | ROB | motor | 14,867 | 72% | 3.3 | 15 | \$2,843 | 88% | 2.9 |
| FE-Penelec | Wall Insulations (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Warehouse | Space Heating | Existing | building | 11,518 | 19% | 0.2 | 15 | \$6,551 | 26% | 0.2 |
| FE-Penelec | Wall Insulations (Going upto R 21) | Code minimum Wall Insulations | Warehouse | Space Heating | New | building | 11,518 | 0.6% | 0.01 | 15 | \$5,025 | 94% | 0.0 |
| FE-Penelec | Green LED Traffic Light | Green Incandescent Traffic Light | Warehouse | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 0% | 1.2 |
| FE-Penelec | Green LED Traffic Light | Green Incandescent Traffic Light | Warehouse | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| FE-Penelec | Green LED Traffic Light | Green Incandescent Traffic Light | Warehouse | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| FE-Penelec | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Warehouse | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 0% | 3.0 |
| FE-Penelec | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Warehouse | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-Penelec | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Warehouse | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-Penelec | Induction Street Lighting | One 100W HPS Street Light Fixture | Warehouse | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 0% | 0.3 |
| FE-Penelec | Induction Street Lighting | One 100W HPS Street Light Fixture | Warehouse | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.7 |
| FE-Penelec | Induction Street Lighting | One 100W HPS Street Light Fixture | Warehouse | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.7 |
| FE-Penelec | LED Street Lighting | One 100W HPS Street Light | Warehouse | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 0% | 0.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|--|---|-----------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | LED Street Lighting | One 100W HPS Street Light | Warehouse | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-Penelec | LED Street Lighting | One 100W HPS Street Light | Warehouse | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-Penelec | Red LED Traffic Light | One Red Incandescent Traffic Light | Warehouse | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 0% | 1.6 |
| FE-Penelec | Red LED Traffic Light | One Red Incandescent Traffic Light | Warehouse | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| FE-Penelec | Red LED Traffic Light | One Red Incandescent Traffic Light | Warehouse | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| FE-Penelec | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Warehouse | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 0% | 0.1 |
| FE-Penelec | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Warehouse | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-Penelec | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Warehouse | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-Penelec | Demand controlled Circulating Systems | Constant circulation system | Warehouse | Water Heating | Existing | building | 2,360 | 20% | 0.2 | 15 | \$428 | 59% | 1.0 |
| FE-Penelec | Demand controlled Circulating Systems | Constant circulation system | Warehouse | Water Heating | New | building | 2,360 | 20% | 0.2 | 15 | \$428 | 59% | 1.0 |
| FE-Penelec | Drainwater Heat Recovery Water Heater | No heat recovery | Warehouse | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.9 |
| FE-Penelec | Drainwater Heat Recovery Water Heater | No heat recovery | Warehouse | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.9 |
| FE-Penelec | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Warehouse | Water Heating | Existing | building | 2,360 | 5.9% | 0.06 | 12 | \$14 | 85% | 7.6 |
| FE-Penelec | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Warehouse | Water Heating | New | building | 2,360 | 5.9% | 0.06 | 12 | \$4.0 | 85% | 26.8 |
| FE-Penelec | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Warehouse | Water Heating | Early | water heater | 7,897 | 66% | 0.9 | 10 | \$1,187 | 29% | 2.2 |
| FE-Penelec | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Warehouse | Water Heating | Early | water heater | 7,897 | 66% | 0.9 | 10 | \$1,187 | 29% | 2.2 |
| FE-Penelec | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Warehouse | Water Heating | New | water heater | 7,897 | 66% | 0.9 | 10 | \$1,187 | 29% | 2.2 |
| FE-Penelec | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Warehouse | Water Heating | New | water heater | 7,897 | 66% | 0.9 | 10 | \$1,187 | 29% | 2.2 |
| FE-Penelec | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Warehouse | Water Heating | ROB | water heater | 7,678 | 65% | 0.9 | 10 | \$1,187 | 29% | 2.1 |
| FE-Penelec | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Warehouse | Water Heating | ROB | water heater | 7,678 | 65% | 0.9 | 10 | \$1,187 | 29% | 2.1 |
| FE-Penelec | Heat Recovery Unit | Base Water Heating | Warehouse | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.6 |
| FE-Penelec | Heat Recovery Unit | Base Water Heating | Warehouse | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.6 |
| FE-Penelec | Heat Trap | No Heat Trap | Warehouse | Water Heating | New | building | 2,360 | 22% | 0.2 | 11 | \$2.4 | 21% | 157.2 |
| FE-Penelec | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Warehouse | Water Heating | Early | water heater | 7,897 | 5.9% | 0.08 | 15 | \$307 | 36% | 1.1 |
| FE-Penelec | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Warehouse | Water Heating | Early | water heater | 7,897 | 5.9% | 0.08 | 15 | \$307 | 36% | 1.1 |
| FE-Penelec | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Warehouse | Water Heating | New | water heater | 7,678 | 3.2% | 0.04 | 15 | \$307 | 36% | 0.6 |
| FE-Penelec | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Warehouse | Water Heating | New | water heater | 7,678 | 3.2% | 0.04 | 15 | \$307 | 36% | 0.6 |
| FE-Penelec | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Warehouse | Water Heating | ROB | water heater | 7,678 | 3.2% | 0.04 | 15 | \$307 | 36% | 0.6 |
| FE-Penelec | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Warehouse | Water Heating | ROB | water heater | 7,678 | 3.2% | 0.04 | 15 | \$307 | 36% | 0.6 |
| FE-Penelec | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Warehouse | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$466 | 81% | 39.2 |
| FE-Penelec | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Warehouse | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 20.4 |
| FE-Penelec | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Warehouse | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 20.4 |
| FE-Penelec | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Warehouse | Water Heating | Existing | building | 2,360 | 0.8% | 0.01 | 13 | \$3.0 | 30% | 5.2 |
| FE-Penelec | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Warehouse | Water Heating | New | building | 2,360 | 0.8% | 0.01 | 13 | \$3.0 | 0% | 5.2 |
| FE-Penelec | Hot Water Circulation Pump Time-Clock | Constant circulation system | Warehouse | Water Heating | Existing | building | 2,360 | 5.3% | 0.05 | 10 | \$9.5 | 72% | 8.8 |
| FE-Penelec | Hot Water Circulation Pump Time-Clock | Constant circulation system | Warehouse | Water Heating | New | building | 2,360 | 5.3% | 0.05 | 10 | \$9.5 | 72% | 8.8 |
| FE-Penelec | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Warehouse | Water Heating | Existing | building | 2,360 | 1.2% | 0.01 | 7 | \$22 | 35% | 0.7 |
| FE-Penelec | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Warehouse | Water Heating | New | building | 2,360 | 1.1% | 0.01 | 7 | \$0.5 | 35% | 26.7 |
| FE-Penelec | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Warehouse | Water Heating | Existing | building | 2,360 | 8.0% | 0.08 | 5 | \$300 | 0% | 0.2 |
| FE-Penelec | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Warehouse | Water Heating | New | building | 2,360 | 5.3% | 0.05 | 5 | \$194 | 0% | 0.2 |
| FE-Penelec | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Warehouse | Water Heating | Existing | building | 2,360 | 6.5% | 0.07 | 9 | \$25 | 2% | 3.8 |
| FE-Penelec | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Warehouse | Water Heating | New | building | 2,360 | 6.5% | 0.07 | 9 | \$6.0 | 2% | 15.8 |
| FE-Penelec | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Warehouse | Water Heating | Early | water heater | 7,897 | 52% | 0.3 | 15 | \$6,222 | 14% | 0.4 |
| FE-Penelec | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Warehouse | Water Heating | New | water heater | 7,678 | 51% | 0.3 | 15 | \$6,222 | 14% | 0.4 |
| FE-Penelec | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Warehouse | Water Heating | ROB | water heater | 7,678 | 51% | 0.3 | 15 | \$6,222 | 14% | 0.4 |
| FE-Penelec | Ultrasonic Faucet Control | Manual Faucet Control | Warehouse | Water Heating | Existing | building | 2,360 | 3.1% | 0.03 | 10 | \$408 | 54% | 0.1 |
| FE-Penelec | Ultrasonic Faucet Control | Manual Faucet Control | Warehouse | Water Heating | New | building | 2,360 | 3.1% | 0.03 | 10 | \$408 | 54% | 0.1 |
| FE-Penelec | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Warehouse | Water Heating | Existing | building | 2,360 | 2.2% | 0.02 | 4 | \$28 | 35% | 0.6 |
| FE-Penelec | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Warehouse | Water Heating | New | building | 2,360 | 2.3% | 0.02 | 4 | \$28 | 35% | 0.6 |
| FE-Penn Power | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Education | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 0.9 |
| FE-Penn Power | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Education | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 0.9 |
| FE-Penn Power | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Education | Cooking | Early | steamer | 43 | 48% | 0.00 | 12 | \$5,053 | 81% | 0.0 |
| FE-Penn Power | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Education | Cooking | New | steamer | 34 | 34% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-Penn Power | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Education | Cooking | ROB | steamer | 34 | 34% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-Penn Power | Electric combination oven (Energy Star) | Standard Oven | Education | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.5 |
| FE-Penn Power | Electric combination oven (Energy Star) | Standard Oven | Education | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.5 |
| FE-Penn Power | Electric Convection Oven | Conventional convection oven w/ 65% efficiency | Education | Cooking | Early | oven | 6,481 | 37% | 0.5 | 12 | \$4,119 | 81% | 0.3 |
| FE-Penn Power | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Education | Cooking | New | oven | 5,186 | 22% | 0.2 | 12 | \$1,113 | 81% | 0.5 |
| FE-Penn Power | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Education | Cooking | ROB | oven | 5,186 | 22% | 0.2 | 12 | \$1,113 | 81% | 0.5 |
| FE-Penn Power | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Education | Cooking | Early | fryer | 4,591 | 24% | 0.2 | 12 | \$9,241 | 86% | 0.1 |
| FE-Penn Power | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Education | Cooking | New | fryer | 4,591 | 24% | 0.2 | 12 | \$2,366 | 86% | 0.2 |
| FE-Penn Power | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Education | Cooking | ROB | fryer | 4,591 | 24% | 0.2 | 12 | \$2,366 | 86% | 0.2 |
| FE-Penn Power | High Efficiency Griddle (ENERGY STAR) | Efficiency code minimum griddle (70% eff) | Education | Cooking | Early | griddle | 8,725 | 67% | 1.1 | 12 | \$4,977 | 86% | 0.6 |
| FE-Penn Power | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Education | Cooking | New | griddle | 5,556 | 48% | 0.5 | 12 | \$1,700 | 86% | 0.7 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|--|---|-----------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Education | Cooking | ROB | griddle | 5,556 | 48% | 0.5 | 12 | \$1,700 | 86% | 0.7 |
| FE-Penn Power | High Efficiency Induction Cooking | Standard Cooking | Education | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-Penn Power | High Efficiency Induction Cooking | Standard Cooking | Education | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Education | Cooling Central | Existing | building | 9,358 | 7.0% | 0.07 | 6 | \$19,030 | 82% | 0.0 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Education | Cooling Central | New | building | 9,358 | 7.0% | 0.07 | 6 | \$19,030 | 82% | 0.0 |
| FE-Penn Power | Adding window shade film | No shade film | Education | Cooling Central | Existing | building | 9,358 | 1.3% | 0.4 | 10 | \$114 | 12% | 2.4 |
| FE-Penn Power | Adding window shade film | No shade film | Education | Cooling Central | New | building | 9,358 | 1.3% | 0.4 | 10 | \$114 | 13% | 2.4 |
| FE-Penn Power | Adding window shade screen | No shade screen | Education | Cooling Central | Existing | building | 9,358 | 1.0% | 0.01 | 10 | \$44 | 13% | 0.9 |
| FE-Penn Power | Adding window shade screen | No shade screen | Education | Cooling Central | New | building | 9,358 | 1.1% | 0.01 | 10 | \$44 | 13% | 0.9 |
| FE-Penn Power | Automated control system | Manual Controls | Education | Cooling Central | Existing | building | 9,358 | 17% | 0.2 | 15 | \$10,245 | 51% | 0.1 |
| FE-Penn Power | Automated control system | Manual Controls | Education | Cooling Central | New | building | 9,358 | 17% | 0.2 | 15 | \$10,245 | 94% | 0.1 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Education | Cooling Central | Existing | building | 9,358 | 1.6% | 0.02 | 15 | \$26,439 | 71% | 0.0 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Education | Cooling Central | New | building | 9,358 | 0.5% | 0.01 | 15 | \$25,131 | 94% | 0.0 |
| FE-Penn Power | Chiller Tuneup/Diagnostics | No tuneup | Education | Cooling Central | Existing | building | 9,358 | 8.0% | 0.08 | 10 | \$23,896 | 59% | 0.0 |
| FE-Penn Power | Chiller Tuneup/Diagnostics | No tuneup | Education | Cooling Central | New | building | 9,358 | 8.0% | 0.08 | 10 | \$23,896 | 59% | 0.0 |
| FE-Penn Power | Commercial energy recovery ventilation systems | No Commercial Recovery System | Education | Cooling Central | Existing | building | 9,358 | 16% | 0.2 | 14 | \$8,456 | 71% | 0.1 |
| FE-Penn Power | Cooling Tower Optimization | No Cooling Tower Optimization | Education | Cooling Central | Existing | building | 9,358 | 20% | 0.2 | 10 | \$57 | 69% | 12.5 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Education | Cooling Central | Existing | building | 9,358 | 1.4% | 0.04 | 15 | \$74 | 20% | 1.2 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Education | Cooling Central | New | building | 9,358 | 1.4% | 0.04 | 15 | \$74 | 10% | 1.2 |
| FE-Penn Power | Facility Commissioning | No Facility Commissioning | Education | Cooling Central | New | building | 9,358 | 16% | 0.2 | 10 | \$5,167 | 89% | 0.1 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Education | Cooling Central | Existing | building | 9,358 | 7.0% | 0.07 | 15 | \$41,511 | 25% | 0.0 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Education | Cooling Central | New | building | 9,358 | 7.0% | 0.07 | 15 | \$41,511 | 35% | 0.0 |
| FE-Penn Power | Hi Eff HVAC System Design | No HVAC Design | Education | Cooling Central | New | building | 9,358 | 14% | 0.1 | 10 | \$76,690 | 51% | 0.0 |
| FE-Penn Power | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Education | Cooling Central | Early | ton | 4,831 | 24% | 0.4 | 15 | \$108,550 | 88% | 0.0 |
| FE-Penn Power | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Education | Cooling Central | New | ton | 3,949 | 6.7% | 0.10 | 15 | \$12,927 | 88% | 0.0 |
| FE-Penn Power | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Education | Cooling Central | ROB | ton | 3,949 | 6.7% | 0.10 | 15 | \$12,927 | 88% | 0.0 |
| FE-Penn Power | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Education | Cooling Central | Early | ton | 7,219 | 23% | 0.6 | 15 | \$140,105 | 88% | 0.0 |
| FE-Penn Power | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Education | Cooling Central | New | ton | 5,808 | 4.9% | 0.1 | 15 | \$9,336 | 88% | 0.0 |
| FE-Penn Power | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Education | Cooling Central | ROB | ton | 5,808 | 4.8% | 0.1 | 15 | \$9,336 | 88% | 0.0 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Education | Cooling Central | Early | ton | 59,096 | 26% | 5.6 | 15 | \$105,354 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Education | Cooling Central | New | ton | 51,489 | 15% | 2.8 | 15 | \$30,530 | 88% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Education | Cooling Central | ROB | ton | 51,489 | 15% | 2.8 | 15 | \$30,530 | 88% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Education | Cooling Central | Early | ton | 88,509 | 23% | 7.4 | 15 | \$154,107 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Education | Cooling Central | New | ton | 81,307 | 16% | 4.8 | 15 | \$27,646 | 88% | 0.3 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Education | Cooling Central | ROB | ton | 81,307 | 16% | 4.8 | 15 | \$27,646 | 88% | 0.3 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Education | Cooling Central | Early | ton | 146,997 | 23% | 12.2 | 15 | \$302,924 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Education | Cooling Central | New | ton | 133,043 | 14% | 7.1 | 15 | \$115,432 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Education | Cooling Central | ROB | ton | 133,043 | 14% | 7.1 | 15 | \$115,432 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Education | Cooling Central | Early | ton | 176,397 | 23% | 14.6 | 15 | \$350,154 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Education | Cooling Central | New | ton | 159,652 | 14% | 8.5 | 15 | \$120,406 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Education | Cooling Central | ROB | ton | 159,652 | 14% | 8.5 | 15 | \$120,406 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Education | Cooling Central | Early | ton | 39,100 | 29% | 4.2 | 15 | \$83,632 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Education | Cooling Central | New | ton | 30,361 | 8.9% | 1.0 | 15 | \$40,211 | 88% | 0.0 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Education | Cooling Central | ROB | ton | 30,361 | 8.9% | 1.0 | 15 | \$40,211 | 88% | 0.0 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Education | Cooling Central | Early | ton | 67,183 | 35% | 8.6 | 15 | \$132,173 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Education | Cooling Central | New | ton | 50,107 | 13% | 2.3 | 15 | \$39,556 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Education | Cooling Central | ROB | ton | 50,107 | 13% | 2.3 | 15 | \$39,556 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Education | Cooling Central | Early | ton | 112,168 | 39% | 16.1 | 15 | \$187,029 | 88% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Education | Cooling Central | New | ton | 79,974 | 15% | 4.3 | 15 | \$33,554 | 88% | 0.3 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Education | Cooling Central | ROB | ton | 79,974 | 15% | 4.3 | 15 | \$33,554 | 88% | 0.3 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Education | Cooling Central | Early | ton | 19,628 | 30% | 2.1 | 15 | \$32,398 | 88% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|---|-----------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Education | Cooling Central | New | ton | 15,551 | 11% | 0.6 | 15 | \$7,188 | 88% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Education | Cooling Central | ROB | ton | 15,551 | 11% | 0.6 | 15 | \$7,188 | 88% | 0.2 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Education | Cooling Central | Existing | building | 9,358 | 3.5% | 0.04 | 10 | \$1,851 | 81% | 0.1 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Education | Cooling Central | New | building | 9,358 | 3.5% | 0.04 | 10 | \$1,851 | 81% | 0.1 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Education | Cooling Central | Existing | building | 9,358 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.3 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Education | Cooling Central | New | building | 9,358 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.5 |
| FE-Penn Power | Re-Commissioning (Existing Construction) | No Re-Commissioning | Education | Cooling Central | Existing | building | 9,358 | 16% | 0.2 | 5 | \$9,680 | 86% | 0.0 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Education | Cooling Central | Existing | building | 9,358 | 3.6% | 0.04 | 15 | \$6,377 | 26% | 0.0 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Education | Cooling Central | New | building | 9,358 | 0.1% | 0.00 | 15 | \$4,891 | 94% | 0.0 |
| FE-Penn Power | <65k BTU/hr 14 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Education | Cooling Unitary | Early | ton | 1,227 | 16% | 0.1 | 15 | \$1,545 | 29% | 0.1 |
| FE-Penn Power | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Education | Cooling Unitary | New | ton | 1,112 | 7.1% | 0.06 | 15 | \$339 | 29% | 0.2 |
| FE-Penn Power | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Education | Cooling Unitary | ROB | ton | 1,112 | 7.1% | 0.06 | 15 | \$339 | 29% | 0.2 |
| FE-Penn Power | <65k BTU/hr 15 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Education | Cooling Unitary | Early | ton | 1,227 | 22% | 0.2 | 15 | \$1,821 | 30% | 0.1 |
| FE-Penn Power | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Education | Cooling Unitary | New | ton | 1,112 | 13% | 0.1 | 15 | \$714 | 30% | 0.2 |
| FE-Penn Power | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Education | Cooling Unitary | ROB | ton | 1,112 | 13% | 0.1 | 15 | \$714 | 30% | 0.2 |
| FE-Penn Power | <65k BTU/hr 16 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Education | Cooling Unitary | Early | ton | 1,227 | 26% | 0.2 | 15 | \$2,098 | 31% | 0.2 |
| FE-Penn Power | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Education | Cooling Unitary | New | ton | 1,112 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.2 |
| FE-Penn Power | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Education | Cooling Unitary | ROB | ton | 1,112 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.2 |
| FE-Penn Power | >760k min 10.2 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Education | Cooling Unitary | Early | ton | 31,052 | 3.7% | 0.9 | 15 | \$68,066 | 56% | 0.0 |
| FE-Penn Power | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Education | Cooling Unitary | New | ton | 31,450 | 4.9% | 1.2 | 15 | \$6,231 | 56% | 0.3 |
| FE-Penn Power | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Education | Cooling Unitary | ROB | ton | 31,450 | 4.9% | 1.2 | 15 | \$6,231 | 56% | 0.3 |
| FE-Penn Power | 135-240k min 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Education | Cooling Unitary | Early | ton | 7,640 | 18% | 1.0 | 15 | \$18,135 | 79% | 0.1 |
| FE-Penn Power | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Education | Cooling Unitary | New | ton | 6,950 | 10.0% | 0.5 | 15 | \$1,948 | 79% | 0.4 |
| FE-Penn Power | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Education | Cooling Unitary | ROB | ton | 6,950 | 10.0% | 0.5 | 15 | \$1,948 | 79% | 0.4 |
| FE-Penn Power | 240k-760k min 11 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Education | Cooling Unitary | Early | ton | 20,429 | 9.0% | 1.4 | 15 | \$44,809 | 66% | 0.0 |
| FE-Penn Power | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Education | Cooling Unitary | New | ton | 20,480 | 9.3% | 1.4 | 15 | \$4,813 | 66% | 0.4 |
| FE-Penn Power | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Education | Cooling Unitary | ROB | ton | 20,480 | 9.3% | 1.4 | 15 | \$4,813 | 66% | 0.4 |
| FE-Penn Power | 65k-135k BTU/hr 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Education | Cooling Unitary | Early | ton | 4,504 | 17% | 0.6 | 15 | \$10,946 | 86% | 0.1 |
| FE-Penn Power | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Education | Cooling Unitary | New | ton | 4,014 | 6.7% | 0.2 | 15 | \$1,392 | 86% | 0.2 |
| FE-Penn Power | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Education | Cooling Unitary | ROB | ton | 4,014 | 6.7% | 0.2 | 15 | \$1,392 | 86% | 0.2 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Education | Cooling Unitary | Existing | building | 138,918 | 7.1% | 0.07 | 6 | \$19,030 | 82% | 0.1 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Education | Cooling Unitary | New | building | 138,918 | 7.0% | 0.07 | 6 | \$19,030 | 82% | 0.1 |
| FE-Penn Power | Adding window shade film | No shade film | Education | Cooling Unitary | Existing | building | 138,918 | 1.3% | 0.4 | 10 | \$1,690 | 12% | 0.5 |
| FE-Penn Power | Adding window shade film | No shade film | Education | Cooling Unitary | New | building | 138,918 | 1.3% | 0.4 | 10 | \$1,690 | 13% | 0.5 |
| FE-Penn Power | Adding window shade screen | No shade screen | Education | Cooling Unitary | Existing | building | 138,918 | 1.1% | 0.01 | 10 | \$654 | 12% | 0.8 |
| FE-Penn Power | Adding window shade screen | No shade screen | Education | Cooling Unitary | New | building | 138,918 | 1.1% | 0.01 | 10 | \$654 | 13% | 0.8 |
| FE-Penn Power | Automated control system | Manual Controls | Education | Cooling Unitary | Existing | building | 138,918 | 17% | 0.2 | 15 | \$152,083 | 51% | 0.1 |
| FE-Penn Power | Automated control system | Manual Controls | Education | Cooling Unitary | New | building | 138,918 | 17% | 0.2 | 15 | \$152,083 | 94% | 0.1 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Education | Cooling Unitary | Existing | building | 138,918 | 1.6% | 0.02 | 15 | \$26,439 | 71% | 0.0 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Education | Cooling Unitary | New | building | 138,918 | 0.5% | 0.01 | 15 | \$25,131 | 94% | 0.0 |
| FE-Penn Power | Commercial energy recovery ventilation systems | No Commercial Recovery System | Education | Cooling Unitary | Existing | building | 138,918 | 16% | 0.2 | 14 | \$125,533 | 71% | 0.1 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Education | Cooling Unitary | Existing | building | 138,918 | 1.4% | 0.04 | 15 | \$1,104 | 20% | 0.8 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Education | Cooling Unitary | New | building | 138,918 | 1.4% | 0.04 | 15 | \$1,104 | 10% | 0.8 |
| FE-Penn Power | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Education | Cooling Unitary | Existing | building | 75,916 | 13% | 0.1 | 1 | \$728 | 73% | 0.7 |
| FE-Penn Power | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Education | Cooling Unitary | New | building | 75,916 | 13% | 0.1 | 1 | \$728 | 73% | 0.7 |
| FE-Penn Power | ECM Motors for split systems | Std Shaded Pole Motor | Education | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.4 |
| FE-Penn Power | ECM Motors for split systems | Std Shaded Pole Motor | Education | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.4 |
| FE-Penn Power | Facility Commissioning | No Facility Commissioning | Education | Cooling Unitary | New | building | 138,918 | 16% | 0.2 | 10 | \$2,255 | 89% | 3.3 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Education | Cooling Unitary | Existing | building | 138,918 | 7.1% | 0.07 | 15 | \$616,210 | 25% | 0.0 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Education | Cooling Unitary | New | building | 138,918 | 7.1% | 0.07 | 15 | \$616,210 | 35% | 0.0 |
| FE-Penn Power | Hi Eff HVAC System Design | No HVAC Design | Education | Cooling Unitary | New | building | 138,918 | 14% | 0.1 | 10 | \$9,691 | 51% | 0.7 |
| FE-Penn Power | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Education | Cooling Unitary | Existing | building | 138,918 | 5.0% | 0.05 | 5 | \$225 | 59% | 6.1 |
| FE-Penn Power | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Education | Cooling Unitary | Existing | building | 138,918 | 0.0% | 0.02 | 5 | \$225 | 51% | 0.1 |
| FE-Penn Power | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Education | Cooling Unitary | New | building | 138,918 | 0.0% | 0.02 | 5 | \$135 | 51% | 0.2 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Education | Cooling Unitary | Existing | building | 138,918 | 3.5% | 0.04 | 10 | \$1,989 | 86% | 0.8 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Education | Cooling Unitary | New | building | 138,918 | 3.5% | 0.04 | 10 | \$1,989 | 86% | 0.8 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|--|---|-----------|-----------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) | Education | Cooling Unitary | Existing | building | 138,918 | 2.0% | 0.02 | 11 | \$286 | 49% | 3.5 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Education | Cooling Unitary | New | building | 138,918 | 1.7% | 0.02 | 11 | \$146 | 49% | 5.8 |
| FE-Penn Power | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Education | Cooling Unitary | Early | unit | 415 | 19% | 0.03 | 15 | \$849 | 85% | 0.1 |
| FE-Penn Power | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Education | Cooling Unitary | New | unit | 419 | 20% | 0.03 | 15 | \$356 | 85% | 0.2 |
| FE-Penn Power | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Education | Cooling Unitary | ROB | unit | 419 | 20% | 0.03 | 15 | \$356 | 85% | 0.2 |
| FE-Penn Power | Re-Commissioning (Existing Construction) | No Re-Commissioning | Education | Cooling Unitary | Existing | building | 138,918 | 16% | 0.2 | 5 | \$9,680 | 86% | 0.5 |
| FE-Penn Power | Room AC (w/ louvered sides) | Existing efficiency Room AC in Pennsylvania (2000 Federal Standards) | Education | Cooling Unitary | Early | ton | 579 | 13% | 0.03 | 9 | \$348 | 82% | 0.1 |
| FE-Penn Power | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Education | Cooling Unitary | New | ton | 525 | 4.5% | 0.01 | 9 | \$17 | 82% | 0.7 |
| FE-Penn Power | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Education | Cooling Unitary | ROB | ton | 525 | 4.5% | 0.01 | 9 | \$17 | 82% | 0.7 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Education | Cooling Unitary | Existing | building | 138,918 | 3.6% | 0.04 | 15 | \$6,377 | 26% | 0.3 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Education | Cooling Unitary | New | building | 138,918 | 0.1% | 0.00 | 15 | \$4,891 | 94% | 0.0 |
| FE-Penn Power | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Education | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 0.9 |
| FE-Penn Power | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Education | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.1 |
| FE-Penn Power | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Education | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.0 |
| FE-Penn Power | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Education | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 0% | 0.1 |
| FE-Penn Power | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Education | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-Penn Power | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Education | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-Penn Power | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Education | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 75% | 0.2 |
| FE-Penn Power | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Education | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 75% | 0.2 |
| FE-Penn Power | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Education | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.3 |
| FE-Penn Power | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Education | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 1.7 |
| FE-Penn Power | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Education | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.3 |
| FE-Penn Power | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Education | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 1.7 |
| FE-Penn Power | Photocell Controls (Outdoor) | Lighting w/ No Controls | Education | Ext. Lighting | Existing | building | 2,358 | 28% | 0.3 | 8 | \$15,932 | 88% | 0.0 |
| FE-Penn Power | Photocell Controls (Outdoor) | Lighting w/ No Controls | Education | Ext. Lighting | New | building | 2,358 | 28% | 0.3 | 8 | \$15,932 | 0% | 0.0 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Education | Heat Pump | Existing | building | 14,431 | 6.9% | 0.07 | 6 | \$19,030 | 82% | 0.0 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Education | Heat Pump | New | building | 14,431 | 6.9% | 0.07 | 6 | \$19,030 | 82% | 0.0 |
| FE-Penn Power | Adding window shade film | No shade film | Education | Heat Pump | Existing | building | 14,431 | 3.9% | 0.4 | 10 | \$176 | 12% | 2.2 |
| FE-Penn Power | Adding window shade film | No shade film | Education | Heat Pump | New | building | 14,431 | 3.9% | 0.4 | 10 | \$176 | 12% | 2.2 |
| FE-Penn Power | Adding window shade screen | No shade screen | Education | Heat Pump | Existing | building | 14,431 | 0.3% | 0.01 | 10 | \$23 | 12% | 0.9 |
| FE-Penn Power | Adding window shade screen | No shade screen | Education | Heat Pump | New | building | 14,431 | 0.3% | 0.01 | 10 | \$23 | 12% | 0.9 |
| FE-Penn Power | Automated control system | Manual Controls | Education | Heat Pump | Existing | building | 14,431 | 17% | 0.2 | 15 | \$15,799 | 51% | 0.1 |
| FE-Penn Power | Automated control system | Manual Controls | Education | Heat Pump | New | building | 14,431 | 17% | 0.2 | 15 | \$15,799 | 94% | 0.1 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Education | Heat Pump | Existing | building | 14,431 | 1.6% | 0.02 | 15 | \$26,439 | 71% | 0.0 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Education | Heat Pump | New | building | 14,431 | 0.5% | 0.01 | 15 | \$25,131 | 94% | 0.0 |
| FE-Penn Power | Commercial energy recovery ventilation systems | No Commercial Recovery System | Education | Heat Pump | Existing | building | 14,431 | 16% | 0.2 | 14 | \$606,732 | 71% | 0.0 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Education | Heat Pump | Existing | building | 14,431 | 4.0% | 0.04 | 15 | \$115 | 12% | 2.3 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Education | Heat Pump | New | building | 14,431 | 4.0% | 0.04 | 15 | \$115 | 6% | 2.3 |
| FE-Penn Power | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Education | Heat Pump | Early | heat pump | 1,482 | 11% | 0.01 | 15 | \$4,070 | 83% | 0.0 |
| FE-Penn Power | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Education | Heat Pump | New | heat pump | 1,428 | 7.9% | 0.01 | 15 | \$1,097 | 83% | 0.0 |
| FE-Penn Power | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Education | Heat Pump | ROB | heat pump | 1,428 | 7.9% | 0.01 | 15 | \$1,097 | 83% | 0.0 |
| FE-Penn Power | Facility Commissioning | No Facility Commissioning | Education | Heat Pump | New | building | 14,431 | 16% | 0.2 | 10 | \$5,167 | 89% | 0.2 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Education | Heat Pump | Existing | building | 14,431 | 7.0% | 0.07 | 15 | \$64,015 | 25% | 0.0 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Education | Heat Pump | New | building | 14,431 | 7.0% | 0.07 | 15 | \$64,015 | 35% | 0.0 |
| FE-Penn Power | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Education | Heat Pump | Early | heat pump | 15,003 | 14% | 0.2 | 15 | \$91,117 | 19% | 0.0 |
| FE-Penn Power | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Education | Heat Pump | New | heat pump | 14,585 | 11% | 0.1 | 15 | \$33,927 | 19% | 0.0 |
| FE-Penn Power | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Education | Heat Pump | ROB | heat pump | 14,585 | 11% | 0.1 | 15 | \$33,927 | 19% | 0.0 |
| FE-Penn Power | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Education | Heat Pump | Early | heat pump | 15,003 | 14% | 0.2 | 15 | \$58,356 | 19% | 0.0 |
| FE-Penn Power | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Education | Heat Pump | New | heat pump | 14,585 | 11% | 0.1 | 15 | \$1,167 | 19% | 0.7 |
| FE-Penn Power | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Education | Heat Pump | ROB | heat pump | 14,585 | 11% | 0.1 | 15 | \$1,167 | 19% | 0.7 |
| FE-Penn Power | Hi Eff HVAC System Design | No HVAC Design | Education | Heat Pump | New | building | 14,431 | 14% | 0.1 | 10 | \$76,690 | 51% | 0.0 |
| FE-Penn Power | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Education | Heat Pump | Early | heat pump | 3,951 | 15% | 0.05 | 12 | \$4,298 | 81% | 0.1 |
| FE-Penn Power | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Education | Heat Pump | Early | heat pump | 3,951 | 26% | 0.09 | 12 | \$5,883 | 81% | 0.1 |
| FE-Penn Power | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Education | Heat Pump | New | heat pump | 3,807 | 12% | 0.04 | 12 | \$852 | 81% | 0.2 |
| FE-Penn Power | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Education | Heat Pump | New | heat pump | 3,807 | 23% | 0.08 | 12 | \$2,437 | 81% | 0.1 |
| FE-Penn Power | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Education | Heat Pump | ROB | heat pump | 3,807 | 12% | 0.04 | 12 | \$852 | 81% | 0.2 |
| FE-Penn Power | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Education | Heat Pump | ROB | heat pump | 3,807 | 23% | 0.08 | 12 | \$2,437 | 81% | 0.1 |
| FE-Penn Power | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Education | Heat Pump | Existing | building | 14,431 | 5.0% | 0.06 | 5 | \$90 | 51% | 1.7 |
| FE-Penn Power | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Education | Heat Pump | New | building | 14,431 | 5.0% | 0.06 | 5 | \$90 | 51% | 1.7 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Education | Heat Pump | Existing | building | 14,431 | 3.5% | 0.04 | 10 | \$1,771 | 81% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|--|--|-----------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Education | Heat Pump | New | building | 14,431 | 3.5% | 0.04 | 10 | \$1,771 | 81% | 0.1 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Education | Heat Pump | Existing | building | 14,431 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.4 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Education | Heat Pump | New | building | 14,431 | 2.1% | 0.02 | 11 | \$146 | 49% | 0.7 |
| FE-Penn Power | Re-Commissioning (Existing Construction) | No Re-Commissioning | Education | Heat Pump | Existing | building | 14,431 | 16% | 0.2 | 5 | \$9,680 | 86% | 0.0 |
| FE-Penn Power | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Education | Heat Pump | New | measure | 1,891,834 | 2.0% | 4.3 | 13 | \$238,160 | 43% | 0.1 |
| FE-Penn Power | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Education | Heat Pump | ROB | measure | 1,891,834 | 2.0% | 4.3 | 13 | \$238,160 | 43% | 0.1 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Education | Heat Pump | Existing | building | 14,431 | 3.6% | 0.04 | 15 | \$6,377 | 26% | 0.0 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Education | Heat Pump | New | building | 14,431 | 0.1% | 0.00 | 15 | \$4,891 | 94% | 0.0 |
| FE-Penn Power | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Education | Heat Pump | Early | heat pump | 6,474 | 38% | 0.2 | 15 | \$35,347 | 28% | 0.0 |
| FE-Penn Power | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Education | Heat Pump | New | heat pump | 6,237 | 35% | 0.2 | 15 | \$15,739 | 28% | 0.1 |
| FE-Penn Power | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Education | Heat Pump | ROB | heat pump | 6,237 | 35% | 0.2 | 15 | \$15,739 | 28% | 0.1 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Education | High Bay Lighting | Early | Fixture | 499 | 9.6% | 0.01 | 13 | \$850 | 39% | 0.0 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Education | High Bay Lighting | Early | Fixture | 499 | 9.5% | 0.01 | 13 | \$850 | 28% | 0.0 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Education | High Bay Lighting | Early | Fixture | 770 | 41% | 0.07 | 13 | \$850 | 36% | 0.2 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Education | High Bay Lighting | New | Fixture | 379 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Education | High Bay Lighting | New | Fixture | 353 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Education | High Bay Lighting | New | Fixture | 585 | 41% | 0.05 | 13 | \$397 | 36% | 0.3 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Education | High Bay Lighting | ROB | Fixture | 499 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Education | High Bay Lighting | ROB | Fixture | 465 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Education | High Bay Lighting | ROB | Fixture | 770 | 41% | 0.07 | 13 | \$397 | 36% | 0.4 |
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Education | High Bay Lighting | Early | Fixture | 969 | 19% | 0.04 | 13 | \$851 | 38% | 0.1 |
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Education | High Bay Lighting | Early | Fixture | 981 | 20% | 0.04 | 13 | \$851 | 38% | 0.1 |
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | Early | Fixture | 2,855 | 73% | 0.5 | 13 | \$851 | 38% | 1.3 |
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Education | High Bay Lighting | New | Fixture | 737 | 19% | 0.03 | 13 | \$372 | 38% | 0.2 |
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | New | Fixture | 2,170 | 73% | 0.4 | 13 | \$383 | 38% | 2.3 |
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Education | High Bay Lighting | ROB | Fixture | 969 | 19% | 0.04 | 13 | \$372 | 38% | 0.3 |
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | ROB | Fixture | 2,855 | 73% | 0.5 | 13 | \$383 | 38% | 3.0 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Education | High Bay Lighting | Early | Fixture | 969 | 25% | 0.05 | 13 | \$554 | 29% | 0.2 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Education | High Bay Lighting | Early | Fixture | 951 | 23% | 0.05 | 13 | \$554 | 28% | 0.2 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | Early | Fixture | 2,855 | 74% | 0.5 | 13 | \$554 | 36% | 2.1 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Education | High Bay Lighting | New | Fixture | 737 | 25% | 0.04 | 13 | \$75 | 29% | 1.3 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | New | Fixture | 2,170 | 74% | 0.4 | 13 | \$86 | 36% | 10.3 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Education | High Bay Lighting | ROB | Fixture | 969 | 25% | 0.05 | 13 | \$75 | 29% | 1.8 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | ROB | Fixture | 2,855 | 74% | 0.5 | 13 | \$86 | 36% | 13.6 |
| FE-Penn Power | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Education | High Bay Lighting | Early | Fixture | 253 | 0.2% | 0.00 | 13 | \$835 | 38% | 0.0 |
| FE-Penn Power | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Education | High Bay Lighting | Early | Fixture | 544 | 54% | 0.07 | 13 | \$835 | 38% | 0.2 |
| FE-Penn Power | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Education | High Bay Lighting | New | Fixture | 414 | 54% | 0.05 | 13 | \$382 | 38% | 0.3 |
| FE-Penn Power | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Education | High Bay Lighting | ROB | Fixture | 544 | 54% | 0.07 | 13 | \$382 | 38% | 0.4 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Education | High Bay Lighting | Early | Fixture | 1,235 | 18% | 0.05 | 13 | \$487 | 25% | 0.3 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Education | High Bay Lighting | Early | Fixture | 1,291 | 22% | 0.06 | 13 | \$487 | 28% | 0.3 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | Early | Fixture | 2,855 | 65% | 0.4 | 13 | \$487 | 36% | 2.1 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Education | High Bay Lighting | New | Fixture | 938 | 18% | 0.04 | 13 | \$16 | 25% | 5.8 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | New | Fixture | 2,170 | 65% | 0.3 | 13 | \$18 | 36% | 41.9 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Education | High Bay Lighting | ROB | Fixture | 1,235 | 18% | 0.05 | 13 | \$16 | 25% | 7.6 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | ROB | Fixture | 2,855 | 65% | 0.4 | 13 | \$18 | 36% | 55.1 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Education | High Bay Lighting | Early | Fixture | 1,235 | 1.5% | 0.00 | 13 | \$557 | 19% | 0.0 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Education | High Bay Lighting | Early | Fixture | 1,271 | 4.3% | 0.01 | 13 | \$557 | 19% | 0.1 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | Early | Fixture | 2,855 | 57% | 0.4 | 13 | \$557 | 19% | 1.6 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Education | High Bay Lighting | New | Fixture | 938 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | New | Fixture | 2,170 | 57% | 0.3 | 13 | \$88 | 19% | 7.8 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Education | High Bay Lighting | ROB | Fixture | 1,235 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | ROB | Fixture | 2,855 | 57% | 0.4 | 13 | \$88 | 19% | 10.2 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Education | High Bay Lighting | Early | Fixture | 524 | 29% | 0.02 | 13 | \$492 | 71% | 0.2 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Education | High Bay Lighting | Early | Fixture | 438 | 15% | 0.01 | 13 | \$492 | 95% | 0.1 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Education | High Bay Lighting | Early | Fixture | 651 | 43% | 0.04 | 13 | \$492 | 95% | 0.3 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Education | High Bay Lighting | Early | Fixture | 604 | 38% | 0.04 | 13 | \$492 | 95% | 0.2 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Education | High Bay Lighting | New | Fixture | 333 | 15% | 0.01 | 13 | \$25 | 95% | 1.0 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Education | High Bay Lighting | New | Fixture | 495 | 43% | 0.03 | 13 | \$51 | 95% | 2.1 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Education | High Bay Lighting | ROB | Fixture | 438 | 15% | 0.01 | 13 | \$25 | 95% | 1.3 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Education | High Bay Lighting | ROB | Fixture | 651 | 43% | 0.04 | 13 | \$51 | 95% | 2.7 |
| FE-Penn Power | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Education | High Bay Lighting | Early | lamp | 66 | 16% | 0.00 | 15 | \$7.7 | 99% | 0.9 |
| FE-Penn Power | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Education | High Bay Lighting | New | lamp | 39 | 13% | 0.00 | 15 | \$1.6 | 91% | 1.9 |
| FE-Penn Power | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Education | High Bay Lighting | ROB | lamp | 64 | 13% | 0.00 | 15 | \$1.6 | 91% | 3.1 |
| FE-Penn Power | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Education | High Bay Lighting | Early | Fixture | 2,921 | 23% | 0.2 | 13 | \$613 | 5% | 0.6 |
| FE-Penn Power | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Education | High Bay Lighting | Early | Fixture | 2,295 | 1.6% | 0.01 | 13 | \$613 | 28% | 0.0 |
| FE-Penn Power | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Education | High Bay Lighting | Early | Fixture | 5,709 | 60% | 0.8 | 13 | \$613 | 18% | 3.1 |
| FE-Penn Power | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Education | High Bay Lighting | New | Fixture | 2,220 | 23% | 0.1 | 13 | \$96 | 5% | 2.9 |
| FE-Penn Power | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Education | High Bay Lighting | ROB | Fixture | 2,921 | 23% | 0.2 | 13 | \$96 | 5% | 3.8 |
| FE-Penn Power | Auto Off Time Switch | Lighting w/ No Controls | Education | High Bay Lighting | Existing | building | 7,824 | 24% | 0.2 | 8 | \$3,237 | 13% | 0.2 |
| FE-Penn Power | Auto Off Time Switch | Lighting w/ No Controls | Education | High Bay Lighting | New | building | 7,824 | 6.9% | 0.07 | 8 | \$3,237 | 0% | 0.1 |
| FE-Penn Power | Central Lighting Control System | Lighting w/ No Controls | Education | High Bay Lighting | Existing | building | 7,824 | 38% | 0.4 | 8 | \$3,237 | 13% | 0.3 |
| FE-Penn Power | Central Lighting Control System | Lighting w/ No Controls | Education | High Bay Lighting | New | building | 7,824 | 14% | 0.1 | 8 | \$3,237 | 13% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|--|-----------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Education | High Bay Lighting | New | building | 7,824 | 10% | 0.1 | 15 | \$35,171 | 32% | 0.0 |
| FE-Penn Power | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Education | High Bay Lighting | New | building | 7,824 | 15% | 0.2 | 15 | \$87,927 | 32% | 0.0 |
| FE-Penn Power | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Education | High Bay Lighting | New | building | 7,824 | 30% | 0.3 | 15 | \$126,028 | 32% | 0.0 |
| FE-Penn Power | Indoor Daylight Sensors | Lighting w/ No Controls | Education | High Bay Lighting | Existing | building | 7,824 | 28% | 0.3 | 8 | \$15,932 | 13% | 0.0 |
| FE-Penn Power | Indoor Daylight Sensors | Lighting w/ No Controls | Education | High Bay Lighting | New | building | 7,824 | 4.0% | 0.04 | 8 | \$15,932 | 0% | 0.0 |
| FE-Penn Power | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Education | High Bay Lighting | Early | Fixture | 2,921 | 92% | 0.6 | 13 | \$1,916 | 95% | 0.8 |
| FE-Penn Power | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | Early | Fixture | 5,709 | 96% | 1.2 | 13 | \$1,916 | 95% | 1.6 |
| FE-Penn Power | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Education | High Bay Lighting | New | Fixture | 2,220 | 92% | 0.5 | 13 | \$1,468 | 95% | 0.8 |
| FE-Penn Power | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | New | Fixture | 4,339 | 96% | 0.9 | 13 | \$1,149 | 95% | 2.0 |
| FE-Penn Power | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Education | High Bay Lighting | ROB | Fixture | 2,921 | 92% | 0.6 | 13 | \$1,468 | 95% | 1.0 |
| FE-Penn Power | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | ROB | Fixture | 5,709 | 96% | 1.2 | 13 | \$1,149 | 95% | 2.6 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Education | High Bay Lighting | Early | Fixture | 969 | 67% | 0.1 | 13 | \$960 | 95% | 0.4 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Education | High Bay Lighting | Early | Fixture | 2,855 | 89% | 0.6 | 13 | \$960 | 95% | 1.4 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Education | High Bay Lighting | Early | Fixture | 783 | 59% | 0.1 | 13 | \$960 | 95% | 0.3 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Education | High Bay Lighting | New | Fixture | 737 | 67% | 0.1 | 13 | \$480 | 95% | 0.6 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Education | High Bay Lighting | New | Fixture | 2,170 | 89% | 0.4 | 13 | \$491 | 95% | 2.2 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Education | High Bay Lighting | New | Fixture | 595 | 59% | 0.08 | 13 | \$406 | 95% | 0.5 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Education | High Bay Lighting | ROB | Fixture | 969 | 67% | 0.1 | 13 | \$480 | 95% | 0.7 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Education | High Bay Lighting | ROB | Fixture | 2,855 | 89% | 0.6 | 13 | \$491 | 95% | 2.8 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Education | High Bay Lighting | ROB | Fixture | 783 | 59% | 0.1 | 13 | \$406 | 95% | 0.6 |
| FE-Penn Power | Occupancy Sensor | Lighting w/ No Controls | Education | High Bay Lighting | Existing | building | 7,824 | 24% | 0.2 | 8 | \$4,877 | 11% | 0.1 |
| FE-Penn Power | Occupancy Sensor | Lighting w/ No Controls | Education | High Bay Lighting | New | building | 7,824 | 6.9% | 0.07 | 8 | \$4,877 | 0% | 0.0 |
| FE-Penn Power | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Education | High Bay Lighting | Existing | building | 7,824 | 28% | 0.3 | 8 | \$15,932 | 11% | 0.0 |
| FE-Penn Power | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Education | High Bay Lighting | New | building | 7,824 | 4.0% | 0.04 | 8 | \$15,932 | 0% | 0.0 |
| FE-Penn Power | Time Clock Control | Lighting w/ No Controls | Education | High Bay Lighting | Existing | building | 7,824 | 28% | 0.3 | 8 | \$3,237 | 13% | 0.2 |
| FE-Penn Power | Time Clock Control | Lighting w/ No Controls | Education | High Bay Lighting | New | building | 7,824 | 4.0% | 0.04 | 8 | \$3,237 | 0% | 0.0 |
| FE-Penn Power | Auto Off Time Switch | Lighting w/ No Controls | Education | Lin. Fluor. Lighting | Existing | building | 72,626 | 24% | 0.2 | 8 | \$3,237 | 13% | 1.5 |
| FE-Penn Power | Auto Off Time Switch | Lighting w/ No Controls | Education | Lin. Fluor. Lighting | New | building | 72,626 | 7.0% | 0.07 | 8 | \$3,237 | 0% | 0.4 |
| FE-Penn Power | Central Lighting Control System | Lighting w/ No Controls | Education | Lin. Fluor. Lighting | Existing | building | 72,626 | 38% | 0.4 | 8 | \$3,237 | 12% | 2.4 |
| FE-Penn Power | Central Lighting Control System | Lighting w/ No Controls | Education | Lin. Fluor. Lighting | New | building | 72,626 | 14% | 0.1 | 8 | \$3,237 | 12% | 0.9 |
| FE-Penn Power | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Education | Lin. Fluor. Lighting | New | building | 72,626 | 10% | 0.1 | 15 | \$35,171 | 32% | 0.1 |
| FE-Penn Power | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Education | Lin. Fluor. Lighting | New | building | 72,626 | 15% | 0.2 | 15 | \$87,927 | 32% | 0.1 |
| FE-Penn Power | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Education | Lin. Fluor. Lighting | New | building | 72,626 | 30% | 0.3 | 15 | \$126,028 | 32% | 0.1 |
| FE-Penn Power | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Education | Lin. Fluor. Lighting | Early | Lamp | 133 | 38% | 0.01 | 15 | \$7.3 | 94% | 4.2 |
| FE-Penn Power | Indoor Daylight Sensors | Lighting w/ No Controls | Education | Lin. Fluor. Lighting | Existing | building | 72,626 | 28% | 0.3 | 8 | \$15,932 | 13% | 0.4 |
| FE-Penn Power | Indoor Daylight Sensors | Lighting w/ No Controls | Education | Lin. Fluor. Lighting | New | building | 72,626 | 4.1% | 0.04 | 8 | \$15,932 | 0% | 0.1 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Education | Lin. Fluor. Lighting | Early | Lamp | 63 | 19% | 0.00 | 15 | \$35 | 94% | 0.2 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 40W T12 Lamp, Magnetic Ballast | Education | Lin. Fluor. Lighting | Early | Lamp | 137 | 63% | 0.02 | 15 | \$35 | 94% | 1.5 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Education | Lin. Fluor. Lighting | Early | Lamp | 77 | 34% | 0.01 | 15 | \$35 | 94% | 0.4 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Education | Lin. Fluor. Lighting | Early | Lamp | 75 | 32% | 0.00 | 15 | \$35 | 94% | 0.4 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Education | Lin. Fluor. Lighting | New | Lamp | 48 | 19% | 0.00 | 15 | \$28 | 94% | 0.2 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Education | Lin. Fluor. Lighting | New | Lamp | 57 | 32% | 0.00 | 15 | \$29 | 94% | 0.4 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Education | Lin. Fluor. Lighting | New | Lamp | 59 | 34% | 0.00 | 15 | \$22 | 94% | 0.6 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Education | Lin. Fluor. Lighting | New | Lamp | 57 | 32% | 0.00 | 15 | \$29 | 94% | 0.4 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Education | Lin. Fluor. Lighting | ROB | Lamp | 63 | 19% | 0.00 | 15 | \$28 | 94% | 0.3 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Education | Lin. Fluor. Lighting | ROB | Lamp | 75 | 32% | 0.00 | 15 | \$29 | 94% | 0.5 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Education | Lin. Fluor. Lighting | ROB | Lamp | 77 | 34% | 0.01 | 15 | \$22 | 94% | 0.7 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Education | Lin. Fluor. Lighting | ROB | Lamp | 75 | 32% | 0.00 | 15 | \$29 | 94% | 0.5 |
| FE-Penn Power | Occupancy Sensor | Lighting w/ No Controls | Education | Lin. Fluor. Lighting | Existing | building | 72,626 | 24% | 0.2 | 8 | \$4,877 | 12% | 1.0 |
| FE-Penn Power | Occupancy Sensor | Lighting w/ No Controls | Education | Lin. Fluor. Lighting | New | building | 72,626 | 7.0% | 0.07 | 8 | \$4,877 | 0% | 0.3 |
| FE-Penn Power | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Education | Lin. Fluor. Lighting | Existing | building | 72,626 | 28% | 0.3 | 8 | \$15,932 | 11% | 0.4 |
| FE-Penn Power | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Education | Lin. Fluor. Lighting | New | building | 72,626 | 4.1% | 0.04 | 8 | \$15,932 | 0% | 0.1 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 40W T12 w/ Magnetic Ballast | Education | Lin. Fluor. Lighting | Early | Lamp | 133 | 54% | 0.02 | 15 | \$9.1 | 94% | 4.8 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Education | Lin. Fluor. Lighting | Early | Lamp | 85 | 28% | 0.01 | 15 | \$9.1 | 24% | 1.6 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Education | Lin. Fluor. Lighting | Early | Lamp | 83 | 26% | 0.00 | 15 | \$9.1 | 94% | 1.4 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Education | Lin. Fluor. Lighting | New | Lamp | 63 | 26% | 0.00 | 15 | \$2.5 | 94% | 3.9 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Education | Lin. Fluor. Lighting | New | Lamp | 63 | 26% | 0.00 | 15 | \$2.5 | 94% | 3.9 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Education | Lin. Fluor. Lighting | New | Lamp | 65 | 28% | 0.00 | 15 | \$2.5 | 24% | 4.4 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Education | Lin. Fluor. Lighting | New | Lamp | 63 | 26% | 0.00 | 15 | \$2.5 | 94% | 3.9 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Education | Lin. Fluor. Lighting | ROB | Lamp | 83 | 26% | 0.00 | 15 | \$2.5 | 94% | 5.1 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Education | Lin. Fluor. Lighting | ROB | Lamp | 83 | 26% | 0.00 | 15 | \$2.5 | 94% | 5.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|--|-----------|---------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Energy Efficient Laboratory Fume Hood | Std. Fume Hood | Education | Motors | ROB | measure | 62,400 | 0.4% | 0.00 | 15 | \$62 | 60% | 1.7 |
| FE-Penn Power | Escalator Motor Controller | Constant power control | Education | Motors | New | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 22% | 4.8 |
| FE-Penn Power | Escalator Motor Controller | Constant power control | Education | Motors | ROB | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 22% | 4.8 |
| FE-Penn Power | Fan Motor - correct sizing | Incorrect Fan Motor Sizing | Education | Motors | ROB | measure | 60,857 | 1.6% | 0.1 | 15 | \$50 | 92% | 10.3 |
| FE-Penn Power | Variable Speed Drive Control, 15HP | Existing Motors w/out VSD Drive | Education | Motors | Early | motor | 39,240 | 70% | 3.6 | 15 | \$731 | 86% | 19.2 |
| FE-Penn Power | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Education | Motors | New | motor | 38,396 | 72% | 3.6 | 15 | \$731 | 86% | 19.2 |
| FE-Penn Power | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Education | Motors | ROB | motor | 38,396 | 72% | 3.6 | 15 | \$731 | 86% | 19.2 |
| FE-Penn Power | Variable Speed Drive Control, 40HP | Existing Motors w/out VSD Drive | Education | Motors | Early | motor | 102,389 | 71% | 9.6 | 15 | \$4,666 | 86% | 7.9 |
| FE-Penn Power | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Education | Motors | New | motor | 101,192 | 72% | 9.6 | 15 | \$4,666 | 86% | 7.9 |
| FE-Penn Power | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Education | Motors | ROB | motor | 101,192 | 72% | 9.6 | 15 | \$4,666 | 86% | 7.9 |
| FE-Penn Power | Variable Speed Drive Control, 5HP | Existing Motors w/out VFD Drive | Education | Motors | Early | motor | 13,603 | 70% | 1.3 | 15 | \$2,243 | 86% | 2.2 |
| FE-Penn Power | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Education | Motors | New | motor | 13,299 | 72% | 1.3 | 15 | \$2,243 | 86% | 2.2 |
| FE-Penn Power | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Education | Motors | ROB | motor | 13,299 | 72% | 1.3 | 15 | \$2,243 | 86% | 2.2 |
| FE-Penn Power | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Education | Motors | Early | motor | 68,319 | 1.6% | 0.1 | 15 | \$268 | 40% | 2.1 |
| FE-Penn Power | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Education | Motors | New | motor | 68,319 | 1.6% | 0.1 | 15 | \$268 | 40% | 2.1 |
| FE-Penn Power | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Education | Motors | ROB | motor | 68,319 | 1.6% | 0.1 | 15 | \$268 | 40% | 2.1 |
| FE-Penn Power | VFD on Chilled Water Pump | Motor w/out VFD Drive | Education | Motors | Early | motor | 32,208 | 54% | 2.7 | 15 | \$2,903 | 86% | 3.2 |
| FE-Penn Power | VFD on Chilled Water Pump | Motor w/out VFD Drive | Education | Motors | New | motor | 31,606 | 55% | 2.7 | 15 | \$2,843 | 86% | 3.2 |
| FE-Penn Power | VFD on Chilled Water Pump | Motor w/out VFD Drive | Education | Motors | ROB | motor | 31,606 | 55% | 2.7 | 15 | \$2,843 | 86% | 3.2 |
| FE-Penn Power | VFD on Condenser Water Pump | Motor w/out VFD Drive | Education | Motors | Early | motor | 30,369 | 32% | 3.2 | 15 | \$2,903 | 86% | 2.2 |
| FE-Penn Power | VFD on Condenser Water Pump | Motor w/out VFD Drive | Education | Motors | New | motor | 29,801 | 33% | 3.1 | 15 | \$2,843 | 86% | 2.3 |
| FE-Penn Power | VFD on Condenser Water Pump | Motor w/out VFD Drive | Education | Motors | ROB | motor | 29,801 | 33% | 3.1 | 15 | \$2,843 | 86% | 2.3 |
| FE-Penn Power | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Education | Motors | Early | motor | 39,388 | 56% | 0.00 | 15 | \$2,903 | 86% | 3.1 |
| FE-Penn Power | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Education | Motors | New | motor | 38,651 | 57% | 0.00 | 15 | \$2,843 | 86% | 3.2 |
| FE-Penn Power | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Education | Motors | ROB | motor | 38,651 | 57% | 0.00 | 15 | \$2,843 | 86% | 3.2 |
| FE-Penn Power | VFD on HVAC Fan | Motor w/out VFD | Education | Motors | Early | motor | 32,224 | 70% | 3.4 | 15 | \$2,903 | 86% | 4.1 |
| FE-Penn Power | VFD on HVAC Fan | Motor w/out VFD | Education | Motors | New | motor | 31,621 | 72% | 3.3 | 15 | \$2,843 | 86% | 4.2 |
| FE-Penn Power | VFD on HVAC Fan | Motor w/out VFD | Education | Motors | ROB | motor | 31,621 | 72% | 3.3 | 15 | \$2,843 | 86% | 4.2 |
| FE-Penn Power | Elevators | Std. Eff Elevator | Education | Other | ROB | measure | 89,016 | 1.8% | 0.1 | 15 | \$379 | 81% | 2.0 |
| FE-Penn Power | Variable Speed Drives on Process Equipment | Constant speed control | Education | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 9.2 |
| FE-Penn Power | Variable Speed Drives on Process Equipment | Constant speed control | Education | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 9.2 |
| FE-Penn Power | Auto Off Time Switch | Lighting w/ No Controls | Education | Other Int. Lighting | Existing | building | 22,682 | 24% | 0.2 | 8 | \$3,237 | 13% | 0.5 |
| FE-Penn Power | Auto Off Time Switch | Lighting w/ No Controls | Education | Other Int. Lighting | New | building | 22,682 | 7.0% | 0.07 | 8 | \$3,237 | 0% | 0.1 |
| FE-Penn Power | Central Lighting Control System | Lighting w/ No Controls | Education | Other Int. Lighting | Existing | building | 22,682 | 38% | 0.4 | 8 | \$3,237 | 13% | 0.8 |
| FE-Penn Power | Central Lighting Control System | Lighting w/ No Controls | Education | Other Int. Lighting | New | building | 22,682 | 14% | 0.1 | 8 | \$3,237 | 13% | 0.3 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 40W Incandescent Bulb | Education | Other Int. Lighting | Early | lamp | 145 | 87% | 0.03 | 11 | \$30 | 14% | 2.0 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Education | Other Int. Lighting | Early | lamp | 104 | 81% | 0.02 | 11 | \$30 | 11% | 1.3 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Education | Other Int. Lighting | New | lamp | 79 | 81% | 0.01 | 11 | \$21 | 14% | 1.4 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Education | Other Int. Lighting | New | lamp | 79 | 81% | 0.01 | 11 | \$23 | 14% | 1.3 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Education | Other Int. Lighting | New | lamp | 79 | 81% | 0.01 | 11 | \$22 | 11% | 1.4 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Education | Other Int. Lighting | ROB | lamp | 104 | 81% | 0.02 | 11 | \$21 | 14% | 1.9 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Education | Other Int. Lighting | ROB | lamp | 104 | 81% | 0.02 | 11 | \$23 | 14% | 1.8 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Education | Other Int. Lighting | ROB | lamp | 104 | 81% | 0.02 | 11 | \$22 | 11% | 1.8 |
| FE-Penn Power | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Education | Other Int. Lighting | Early | lamp | 145 | 75% | 0.02 | 4 | \$73 | 24% | 0.3 |
| FE-Penn Power | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Education | Other Int. Lighting | New | fixture | 157 | 65% | 0.02 | 13 | \$29 | 28% | 1.9 |
| FE-Penn Power | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Education | Other Int. Lighting | New | lamp | 79 | 65% | 0.01 | 4 | \$29 | 28% | 0.4 |
| FE-Penn Power | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Education | Other Int. Lighting | ROB | fixture | 207 | 65% | 0.03 | 13 | \$29 | 24% | 2.5 |
| FE-Penn Power | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Education | Other Int. Lighting | ROB | lamp | 104 | 65% | 0.01 | 4 | \$29 | 24% | 0.5 |
| FE-Penn Power | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Education | Other Int. Lighting | Early | lamp | 145 | 75% | 0.02 | 4 | \$3.2 | 24% | 7.6 |
| FE-Penn Power | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Education | Other Int. Lighting | New | lamp | 79 | 65% | 0.01 | 4 | \$1.8 | 24% | 6.5 |
| FE-Penn Power | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Education | Other Int. Lighting | ROB | lamp | 104 | 65% | 0.01 | 4 | \$1.8 | 24% | 8.5 |
| FE-Penn Power | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Education | Other Int. Lighting | ROB | lamp | 104 | 65% | 0.01 | 4 | \$1.8 | 24% | 8.5 |
| FE-Penn Power | Exit Sign Retrofit: CFL replacing Incandescent | One 23W Single Sided Incandescent Exit Sign | Education | Other Int. Lighting | Early | exit sign | 139 | 42% | 0.01 | 15 | \$48 | 22% | 0.6 |
| FE-Penn Power | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Education | Other Int. Lighting | New | building | 22,682 | 10% | 0.1 | 15 | \$35,171 | 32% | 0.0 |
| FE-Penn Power | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Education | Other Int. Lighting | New | building | 22,682 | 15% | 0.2 | 15 | \$87,927 | 32% | 0.0 |
| FE-Penn Power | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Education | Other Int. Lighting | New | building | 22,682 | 30% | 0.3 | 15 | \$126,028 | 32% | 0.0 |
| FE-Penn Power | Indoor Daylight Sensors | Lighting w/ No Controls | Education | Other Int. Lighting | Existing | building | 22,682 | 28% | 0.3 | 8 | \$15,932 | 13% | 0.1 |
| FE-Penn Power | Indoor Daylight Sensors | Lighting w/ No Controls | Education | Other Int. Lighting | New | building | 22,682 | 4.1% | 0.04 | 8 | \$15,932 | 0% | 0.0 |
| FE-Penn Power | LED Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Education | Other Int. Lighting | Early | sign | 153 | 87% | 0.02 | 15 | \$48 | 16% | 1.5 |
| FE-Penn Power | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Education | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 1.6 |
| FE-Penn Power | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Education | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 1.6 |
| FE-Penn Power | LED Task Lighting/Screw-In | 1 15W CFL bulb | Education | Other Int. Lighting | Early | lamp | 45 | 33% | 0.00 | 8 | \$9.6 | 24% | 0.6 |
| FE-Penn Power | LED Task Lighting/Screw-In | 1 60W Incandescent Bulb | Education | Other Int. Lighting | Early | lamp | 179 | 83% | 0.02 | 8 | \$9.6 | 24% | 5.5 |
| FE-Penn Power | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Education | Other Int. Lighting | New | lamp | 98 | 77% | 0.01 | 8 | \$7.9 | 24% | 3.3 |
| FE-Penn Power | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Education | Other Int. Lighting | New | lamp | 98 | 77% | 0.01 | 8 | \$7.9 | 24% | 3.3 |
| FE-Penn Power | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Education | Other Int. Lighting | ROB | lamp | 129 | 77% | 0.01 | 8 | \$7.9 | 24% | 4.4 |
| FE-Penn Power | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Education | Other Int. Lighting | ROB | lamp | 129 | 77% | 0.01 | 8 | \$7.9 | 24% | 4.4 |
| FE-Penn Power | Occupancy Sensor | Lighting w/ No Controls | Education | Other Int. Lighting | Existing | building | 22,682 | 24% | 0.2 | 8 | \$4,877 | 11% | 0.3 |
| FE-Penn Power | Occupancy Sensor | Lighting w/ No Controls | Education | Other Int. Lighting | New | building | 22,682 | 7.0% | 0.07 | 8 | \$4,877 | 0% | 0.1 |
| FE-Penn Power | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Education | Other Int. Lighting | Existing | building | 22,682 | 28% | 0.3 | 8 | \$15,932 | 11% | 0.1 |
| FE-Penn Power | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Education | Other Int. Lighting | New | building | 22,682 | 4.1% | 0.04 | 8 | \$15,932 | 0% | 0.0 |
| FE-Penn Power | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Education | Other Int. Lighting | Early | exit sign | 139 | 100% | 0.02 | 15 | \$173 | 26% | 0.4 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|--|---|-----------|---------------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Education | Other Int. Lighting | New | exit sign | 80 | 100% | 0.01 | 15 | \$148 | 31% | 0.3 |
| FE-Penn Power | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Education | Other Int. Lighting | ROB | exit sign | 80 | 100% | 0.01 | 15 | \$148 | 26% | 0.3 |
| FE-Penn Power | Time Clock Control | Lighting w/ No Controls | Education | Other Int. Lighting | Existing | building | 22,682 | 28% | 0.3 | 8 | \$3,237 | 13% | 0.6 |
| FE-Penn Power | Time Clock Control | Lighting w/ No Controls | Education | Other Int. Lighting | New | building | 22,682 | 4.1% | 0.04 | 8 | \$3,237 | 0% | 0.1 |
| FE-Penn Power | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Education | Plug Load | Existing | building | 2,912 | 46% | 0.5 | 5 | \$189 | 4% | 2.2 |
| FE-Penn Power | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Education | Plug Load | New | building | 1,422 | 46% | 0.5 | 5 | \$189 | 4% | 1.5 |
| FE-Penn Power | Data Center - Server/Storage Consolidation | No Consolidation | Education | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penn Power | Data Center - Server/Storage Consolidation | No Consolidation | Education | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penn Power | Data Center - Server/Storage Virtualization | No Virtualization | Education | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penn Power | Data Center - Server/Storage Virtualization | No Virtualization | Education | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penn Power | Energy Star - Scanners | Std Scanner | Education | Plug Load | New | measure | 68 | 3.9% | 0.04 | 4 | \$777 | 7% | 0.0 |
| FE-Penn Power | Energy Star - Scanners | Std Scanner | Education | Plug Load | ROB | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| FE-Penn Power | Energy Star Dishwasher | Existing Dishwasher units | Education | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,580 | 6% | 0.9 |
| FE-Penn Power | Energy Star Dishwasher | Standard Dishwasher unit | Education | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 6% | 2.8 |
| FE-Penn Power | Energy Star Dishwasher | Standard Dishwasher unit | Education | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 6% | 2.8 |
| FE-Penn Power | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Education | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 17% | 0.1 |
| FE-Penn Power | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Education | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 1.7 |
| FE-Penn Power | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Education | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 1.7 |
| FE-Penn Power | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Education | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 9% | 0.7 |
| FE-Penn Power | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Education | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.5 |
| FE-Penn Power | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Education | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.5 |
| FE-Penn Power | ENERGY STAR® Copiers | 10% Less Efficient Copier | Education | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 18% | 0.0 |
| FE-Penn Power | ENERGY STAR® Copiers | One Conventional Copier | Education | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| FE-Penn Power | ENERGY STAR® Copiers | One Conventional Copier | Education | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| FE-Penn Power | ENERGY STAR® desktop | Standard computer | Education | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 69% | 0.1 |
| FE-Penn Power | ENERGY STAR® desktop | Standard computer | Education | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.2 |
| FE-Penn Power | ENERGY STAR® desktop | Standard computer | Education | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.2 |
| FE-Penn Power | ENERGY STAR® Fax | 10% Less Efficient Fax | Education | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 15% | 0.0 |
| FE-Penn Power | ENERGY STAR® Fax | One Conventional Fax | Education | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.1 |
| FE-Penn Power | ENERGY STAR® Fax | One Conventional Fax | Education | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.1 |
| FE-Penn Power | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Education | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 70% | 0.0 |
| FE-Penn Power | ENERGY STAR® Monitors | One Conventional Monitor | Education | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| FE-Penn Power | ENERGY STAR® Monitors | One Conventional Monitor | Education | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| FE-Penn Power | ENERGY STAR® Printers | 10% Less Efficient Printer | Education | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 44% | 0.0 |
| FE-Penn Power | ENERGY STAR® Printers | One Conventional Printer | Education | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| FE-Penn Power | ENERGY STAR® Printers | One Conventional Printer | Education | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$1,426 | 44% | 0.0 |
| FE-Penn Power | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Education | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 43% | 0.1 |
| FE-Penn Power | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Education | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.6 |
| FE-Penn Power | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Education | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.6 |
| FE-Penn Power | ENERGY STAR® Televisions | 10% Less Efficient Television | Education | Plug Load | Early | Unit | 185 | 38% | 0.01 | 6 | \$672 | 40% | 0.0 |
| FE-Penn Power | ENERGY STAR® Televisions | One Conventional Television | Education | Plug Load | New | Unit | 168 | 32% | 0.01 | 6 | \$206 | 40% | 0.1 |
| FE-Penn Power | ENERGY STAR® Televisions | One Conventional Television | Education | Plug Load | ROB | Unit | 168 | 32% | 0.01 | 6 | \$206 | 40% | 0.1 |
| FE-Penn Power | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Education | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 24% | 0.2 |
| FE-Penn Power | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Education | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.5 |
| FE-Penn Power | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Education | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.5 |
| FE-Penn Power | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Education | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.2 |
| FE-Penn Power | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Education | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.2 |
| FE-Penn Power | Network PC Power Management | No PC Power Management | Education | Plug Load | Existing | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 44.9 |
| FE-Penn Power | Network PC Power Management | No PC Power Management | Education | Plug Load | New | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 44.9 |
| FE-Penn Power | Smart Strip Plug Outlets | Standard plug strip/outlet | Education | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.3 |
| FE-Penn Power | Smart Strip Plug Outlets | Standard plug strip/outlet | Education | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.3 |
| FE-Penn Power | Smart Strip Plug Outlets | Standard plug strip/outlet | Education | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| FE-Penn Power | Smart Strip Plug Outlets | Standard plug strip/outlet | Education | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| FE-Penn Power | Smart Strip Plug Outlets | Standard plug strip/outlet | Education | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| FE-Penn Power | Smart Strip Plug Outlets | Standard plug strip/outlet | Education | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| FE-Penn Power | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Education | Plug Load | Existing | building | 2,913 | 46% | 0.5 | 5 | \$180 | 3% | 2.3 |
| FE-Penn Power | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Education | Plug Load | New | building | 1,422 | 46% | 0.5 | 5 | \$180 | 3% | 1.6 |
| FE-Penn Power | Air curtain technology | Strip plastic curtain | Education | Refrigeration | New | building | 21,972 | 6.8% | 0.07 | 8 | \$2,654 | 35% | 0.2 |
| FE-Penn Power | Air curtain technology | Strip plastic curtain | Education | Refrigeration | New | building | 12,380 | 6.8% | 0.07 | 8 | \$2,654 | 35% | 0.1 |
| FE-Penn Power | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Education | Refrigeration | Existing | building | 4,585 | 0.7% | 0.01 | 12 | \$70 | 11% | 0.2 |
| FE-Penn Power | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Education | Refrigeration | New | building | 4,585 | 0.7% | 0.01 | 12 | \$70 | 11% | 0.2 |
| FE-Penn Power | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Education | Refrigeration | Existing | building | 4,585 | 7.0% | 0.07 | 12 | \$70 | 11% | 2.2 |
| FE-Penn Power | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Education | Refrigeration | New | building | 4,585 | 7.0% | 0.07 | 12 | \$70 | 11% | 2.2 |
| FE-Penn Power | Auto Closer on Refrigerator Door | Door w/out Autocloser | Education | Refrigeration | Existing | building | 12,380 | 6.4% | 0.06 | 8 | \$698 | 40% | 0.3 |
| FE-Penn Power | Auto Closer on Refrigerator Door | Door w/out Autocloser | Education | Refrigeration | Existing | building | 21,972 | 2.9% | 0.03 | 8 | \$559 | 40% | 0.3 |
| FE-Penn Power | Auto Closer on Refrigerator Door | Door w/out Autocloser | Education | Refrigeration | New | building | 12,380 | 6.4% | 0.06 | 8 | \$698 | 40% | 0.3 |
| FE-Penn Power | Auto Closer on Refrigerator Door | Door w/out Autocloser | Education | Refrigeration | New | building | 21,972 | 2.9% | 0.03 | 8 | \$559 | 40% | 0.3 |
| FE-Penn Power | Demand Hot Gas Defrost | Base Refrigeration System | Education | Refrigeration | Existing | building | 4,585 | 3.0% | 0.03 | 10 | \$1,343 | 0% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|--|-----------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Demand Hot Gas Defrost | Base Refrigeration System | Education | Refrigeration | New | building | 4,585 | 3.0% | 0.03 | 10 | \$1,343 | 0% | 0.0 |
| FE-Penn Power | Door Gasket- Freezer | Door w/out Gasket | Education | Refrigeration | Existing | building | 12,380 | 3.5% | 0.04 | 4 | \$72 | 29% | 1.1 |
| FE-Penn Power | Door Gasket- Freezer | Door w/out Gasket | Education | Refrigeration | New | building | 12,380 | 3.7% | 0.04 | 4 | \$72 | 29% | 1.1 |
| FE-Penn Power | Door Gasket- Refrigerator | Door w/out Gasket | Education | Refrigeration | Existing | building | 21,972 | 0.9% | 0.01 | 4 | \$77 | 45% | 0.4 |
| FE-Penn Power | Door Gasket- Refrigerator | Door w/out Gasket | Education | Refrigeration | New | building | 21,972 | 0.9% | 0.01 | 4 | \$77 | 45% | 0.4 |
| FE-Penn Power | Economizer for Walk-in Coolers | No Economizer | Education | Refrigeration | Early | measure | 39,466 | 6.6% | 0.4 | 10 | \$459 | 72% | 2.2 |
| FE-Penn Power | Economizer for Walk-in Coolers | No Economizer | Education | Refrigeration | Early | measure | 39,466 | 6.6% | 0.4 | 10 | \$459 | 72% | 2.2 |
| FE-Penn Power | Economizer for Walk-in Coolers | No Economizer | Education | Refrigeration | Early | measure | 39,466 | 6.6% | 0.4 | 10 | \$459 | 72% | 2.2 |
| FE-Penn Power | Economizer for Walk-in Coolers | No Economizer | Education | Refrigeration | New | measure | 39,466 | 6.6% | 0.4 | 10 | \$54 | 72% | 18.6 |
| FE-Penn Power | Economizer for Walk-in Coolers | No Economizer | Education | Refrigeration | New | measure | 39,466 | 6.6% | 0.4 | 10 | \$54 | 72% | 18.7 |
| FE-Penn Power | Economizer for Walk-in Coolers | No Economizer | Education | Refrigeration | ROB | measure | 39,466 | 6.6% | 0.4 | 10 | \$54 | 72% | 18.6 |
| FE-Penn Power | Economizer for Walk-in Coolers | No Economizer | Education | Refrigeration | ROB | measure | 39,466 | 6.6% | 0.4 | 10 | \$54 | 72% | 18.7 |
| FE-Penn Power | Economizer for Walk-in Coolers | No Economizer | Education | Refrigeration | ROB | measure | 39,466 | 6.6% | 0.4 | 10 | \$54 | 72% | 18.7 |
| FE-Penn Power | eCube | Refrigeration unit w/out eCube | Education | Refrigeration | Existing | building | 21,972 | 15% | 0.2 | 15 | \$1,164 | 57% | 1.2 |
| FE-Penn Power | eCube | Refrigeration unit w/out eCube | Education | Refrigeration | New | building | 21,972 | 15% | 0.2 | 15 | \$1,164 | 57% | 1.2 |
| FE-Penn Power | Efficient compressor motor | Base Refrigeration System - Grocery | Education | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.3 |
| FE-Penn Power | Efficient compressor motor | Base Refrigeration System - Grocery | Education | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.4 |
| FE-Penn Power | Efficient compressor motor | Base Refrigeration System - Grocery | Education | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.3 |
| FE-Penn Power | Efficient compressor motor | Base Refrigeration System - Grocery | Education | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.4 |
| FE-Penn Power | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Education | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.4 |
| FE-Penn Power | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Education | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.2 |
| FE-Penn Power | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Education | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.2 |
| FE-Penn Power | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Education | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.2 |
| FE-Penn Power | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Education | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.6 |
| FE-Penn Power | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Education | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.6 |
| FE-Penn Power | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Education | Refrigeration | Existing | building | 21,972 | 1.3% | 0.01 | 10 | \$369 | 77% | 0.3 |
| FE-Penn Power | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Education | Refrigeration | New | building | 21,972 | 1.3% | 0.01 | 10 | \$369 | 77% | 0.3 |
| FE-Penn Power | Floating head pressure controller | System w/out FHPC | Education | Refrigeration | Existing | building | 12,380 | 1.9% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penn Power | Floating head pressure controller | System w/out FHPC | Education | Refrigeration | Existing | building | 4,585 | 2.1% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penn Power | Floating head pressure controller | System w/out FHPC | Education | Refrigeration | Existing | building | 21,972 | 0.4% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penn Power | Floating head pressure controller | System w/out FHPC | Education | Refrigeration | New | building | 12,380 | 1.9% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penn Power | Floating head pressure controller | System w/out FHPC | Education | Refrigeration | New | building | 4,585 | 2.1% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penn Power | Floating head pressure controller | System w/out FHPC | Education | Refrigeration | New | building | 21,972 | 0.4% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penn Power | High Efficiency Commercial Freezer | Std. Commercial Freezer | Education | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 86% | 0.3 |
| FE-Penn Power | High Efficiency Commercial Freezer | Std. Commercial Freezer | Education | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 3.2 |
| FE-Penn Power | High Efficiency Commercial Freezer | Std. Commercial Freezer | Education | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 3.2 |
| FE-Penn Power | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Education | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 21% | 0.1 |
| FE-Penn Power | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Education | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 21% | 0.7 |
| FE-Penn Power | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Education | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 21% | 0.7 |
| FE-Penn Power | High Efficiency Ice Maker | Existing Standard Efficiency Ice Maker in Pennsylvania | Education | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 73% | 0.1 |
| FE-Penn Power | High Efficiency Ice Maker | Standard code minimum Ice Maker | Education | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.1 |
| FE-Penn Power | High Efficiency Ice Maker | Standard code minimum Ice Maker | Education | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.1 |
| FE-Penn Power | High Efficiency Ice Making Head | Standard Ice Making Head | Education | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.2 |
| FE-Penn Power | High Efficiency Ice Making Head | Standard Ice Making Head | Education | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.2 |
| FE-Penn Power | High R-Value Glass Doors | Base Refrigeration System - Grocery | Education | Refrigeration | Existing | building | 4,585 | 0.7% | 0.01 | 10 | \$60 | 0% | 0.2 |
| FE-Penn Power | High R-Value Glass Doors | Base Refrigeration System - Grocery | Education | Refrigeration | New | building | 4,585 | 0.7% | 0.01 | 10 | \$60 | 0% | 0.2 |
| FE-Penn Power | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Education | Refrigeration | Early | Fixture | 373 | 56% | 0.02 | 8 | \$448 | 66% | 0.1 |
| FE-Penn Power | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Education | Refrigeration | New | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 66% | 0.3 |
| FE-Penn Power | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Education | Refrigeration | ROB | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 66% | 0.3 |
| FE-Penn Power | No-heat glass doors | Standard low-temp reach-in | Education | Refrigeration | Existing | building | 4,585 | 20% | 0.2 | 10 | \$5,441 | 8% | 0.1 |
| FE-Penn Power | No-heat glass doors | Standard low-temp reach-in | Education | Refrigeration | New | building | 4,585 | 20% | 0.2 | 10 | \$5,441 | 8% | 0.1 |
| FE-Penn Power | Quick acting freezer doors | Std. Freezer Doors | Education | Refrigeration | Existing | building | 12,380 | 13% | 0.1 | 10 | \$3,202 | 56% | 0.2 |
| FE-Penn Power | Quick acting freezer doors | Std. Freezer Doors | Education | Refrigeration | New | building | 12,380 | 13% | 0.1 | 10 | \$3,202 | 56% | 0.2 |
| FE-Penn Power | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Education | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 30% | 0.3 |
| FE-Penn Power | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Education | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.3 |
| FE-Penn Power | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Education | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.3 |
| FE-Penn Power | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 30% | 1.3 |
| FE-Penn Power | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 2.2 |
| FE-Penn Power | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 2.2 |
| FE-Penn Power | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 30% | 1.3 |
| FE-Penn Power | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 3.0 |
| FE-Penn Power | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 3.0 |
| FE-Penn Power | Refrigeration Commissioning | Non-commissioned refrigeration system | Education | Refrigeration | Existing | building | 40,349 | 9.5% | 0.10 | 3 | \$8,955 | 85% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|---|-----------|-----------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Refrigeration Commissioning | Non-commissioned refrigeration system | Education | Refrigeration | New | building | 40,349 | 9.5% | 0.10 | 3 | \$8,955 | 85% | 0.1 |
| FE-Penn Power | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Education | Refrigeration | Existing | building | 12,380 | 8.2% | 0.08 | 4 | \$87 | 22% | 2.0 |
| FE-Penn Power | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Education | Refrigeration | Existing | building | 21,972 | 1.3% | 0.01 | 4 | \$94 | 22% | 0.5 |
| FE-Penn Power | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Education | Refrigeration | New | building | 12,380 | 8.2% | 0.08 | 4 | \$87 | 22% | 2.0 |
| FE-Penn Power | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Education | Refrigeration | New | building | 21,972 | 1.3% | 0.01 | 4 | \$94 | 22% | 0.5 |
| FE-Penn Power | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Education | Refrigeration | Existing | building | 12,380 | 1.9% | 0.02 | 11 | \$148 | 79% | 0.6 |
| FE-Penn Power | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Education | Refrigeration | New | building | 12,380 | 1.9% | 0.02 | 11 | \$148 | 79% | 0.6 |
| FE-Penn Power | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Education | Refrigeration | Existing | building | 21,972 | 1.4% | 0.01 | 11 | \$148 | 79% | 0.7 |
| FE-Penn Power | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Education | Refrigeration | New | building | 21,972 | 1.4% | 0.01 | 11 | \$148 | 79% | 0.7 |
| FE-Penn Power | Vertical Night Covers | Display cases w/out night covers-High Temperature | Education | Refrigeration | Existing | building | 4,585 | 0.2% | 0.00 | 5 | \$66 | 9% | 0.0 |
| FE-Penn Power | Vertical Night Covers | Display cases w/out night covers-High Temperature | Education | Refrigeration | New | building | 4,585 | 0.2% | 0.00 | 5 | \$66 | 9% | 0.0 |
| FE-Penn Power | VSD Controlled Compressor | Compressor w/out VSD | Education | Refrigeration | Early | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 63% | 0.1 |
| FE-Penn Power | VSD Controlled Compressor | Compressor w/out VSD | Education | Refrigeration | New | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 63% | 0.1 |
| FE-Penn Power | VSD Controlled Compressor | Compressor w/out VSD | Education | Refrigeration | ROB | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 63% | 0.1 |
| FE-Penn Power | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Education | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$269 | 35% | 0.7 |
| FE-Penn Power | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Education | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$269 | 35% | 0.7 |
| FE-Penn Power | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Education | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 2.4 |
| FE-Penn Power | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Education | Refrigeration | New | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 2.3 |
| FE-Penn Power | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Education | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 2.4 |
| FE-Penn Power | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Education | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 2.3 |
| FE-Penn Power | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 35% | 1.9 |
| FE-Penn Power | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 35% | 1.8 |
| FE-Penn Power | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 4.0 |
| FE-Penn Power | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 3.7 |
| FE-Penn Power | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 4.0 |
| FE-Penn Power | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 3.7 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Education | Space Heating | Existing | building | 31,271 | 7.1% | 0.07 | 6 | \$19,030 | 82% | 0.0 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Education | Space Heating | New | building | 31,271 | 7.1% | 0.07 | 6 | \$19,030 | 82% | 0.0 |
| FE-Penn Power | Adding window shade film | No shade film | Education | Space Heating | Existing | building | 31,271 | 1.3% | 0.4 | 10 | \$381 | 13% | 0.9 |
| FE-Penn Power | Adding window shade film | No shade film | Education | Space Heating | New | building | 31,271 | 1.3% | 0.4 | 10 | \$381 | 13% | 0.9 |
| FE-Penn Power | Adding window shade screen | No shade screen | Education | Space Heating | Existing | building | 31,271 | 1.1% | 0.01 | 10 | \$147 | 13% | 0.7 |
| FE-Penn Power | Adding window shade screen | No shade screen | Education | Space Heating | New | building | 31,271 | 1.1% | 0.01 | 10 | \$147 | 13% | 0.7 |
| FE-Penn Power | Automated control system | Manual Controls | Education | Space Heating | Existing | building | 31,271 | 17% | 0.2 | 15 | \$34,235 | 51% | 0.1 |
| FE-Penn Power | Automated control system | Manual Controls | Education | Space Heating | New | building | 31,271 | 17% | 0.2 | 15 | \$34,235 | 94% | 0.1 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Education | Space Heating | Existing | building | 31,271 | 1.6% | 0.02 | 15 | \$26,439 | 71% | 0.0 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Education | Space Heating | New | building | 31,271 | 0.5% | 0.01 | 15 | \$25,131 | 94% | 0.0 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Education | Space Heating | Existing | building | 31,271 | 1.4% | 0.04 | 15 | \$248 | 20% | 0.8 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Education | Space Heating | New | building | 31,271 | 1.4% | 0.04 | 15 | \$248 | 10% | 0.8 |
| FE-Penn Power | Efficient Unit Heating System | Existing Unit Heaters in PA | Education | Space Heating | Early | heater | 23,909 | 23% | 0.04 | 15 | \$3,289 | 83% | 0.6 |
| FE-Penn Power | Efficient Unit Heating System | Std. Unit Heater | Education | Space Heating | New | heater | 21,219 | 13% | 0.02 | 15 | \$1,991 | 83% | 0.5 |
| FE-Penn Power | Efficient Unit Heating System | Std. Unit Heater | Education | Space Heating | ROB | heater | 21,219 | 13% | 0.02 | 15 | \$1,991 | 83% | 0.5 |
| FE-Penn Power | Facility Commissioning | No Facility Commissioning | Education | Space Heating | New | building | 31,271 | 16% | 0.2 | 10 | \$5,167 | 89% | 0.3 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Education | Space Heating | Existing | building | 31,271 | 7.1% | 0.07 | 15 | \$138,713 | 25% | 0.0 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Education | Space Heating | New | building | 31,271 | 7.1% | 0.07 | 15 | \$138,713 | 35% | 0.0 |
| FE-Penn Power | Hi Eff HVAC System Design | No HVAC Design | Education | Space Heating | New | building | 31,271 | 14% | 0.1 | 10 | \$76,690 | 51% | 0.0 |
| FE-Penn Power | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Education | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 0.8 |
| FE-Penn Power | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Education | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 0.8 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Education | Space Heating | Existing | building | 31,271 | 3.5% | 0.04 | 10 | \$7,735 | 81% | 0.0 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Education | Space Heating | New | building | 31,271 | 3.5% | 0.04 | 10 | \$7,735 | 81% | 0.0 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Education | Space Heating | Existing | building | 31,271 | 3.6% | 0.04 | 11 | \$286 | 49% | 1.3 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Education | Space Heating | New | building | 31,271 | 3.1% | 0.03 | 11 | \$146 | 49% | 2.2 |
| FE-Penn Power | Re-Commissioning (Existing Construction) | No Re-Commissioning | Education | Space Heating | Existing | building | 31,271 | 16% | 0.2 | 5 | \$9,680 | 86% | 0.1 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Education | Space Heating | Existing | building | 31,271 | 3.6% | 0.04 | 15 | \$6,377 | 26% | 0.1 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Education | Space Heating | New | building | 31,271 | 0.1% | 0.00 | 15 | \$4,891 | 94% | 0.0 |
| FE-Penn Power | Green LED Traffic Light | Green Incandescent Traffic Light | Education | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 0% | 1.0 |
| FE-Penn Power | Green LED Traffic Light | Green Incandescent Traffic Light | Education | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| FE-Penn Power | Green LED Traffic Light | Green Incandescent Traffic Light | Education | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| FE-Penn Power | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Education | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 0% | 2.6 |
| FE-Penn Power | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Education | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-Penn Power | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Education | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-Penn Power | Induction Street Lighting | One 100W HPS Street Light Fixture | Education | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 0% | 0.2 |
| FE-Penn Power | Induction Street Lighting | One 100W HPS Street Light Fixture | Education | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.4 |
| FE-Penn Power | Induction Street Lighting | One 100W HPS Street Light Fixture | Education | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.4 |
| FE-Penn Power | LED Street Lighting | One 100W HPS Street Light | Education | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 0% | 0.2 |
| FE-Penn Power | LED Street Lighting | One 100W HPS Street Light | Education | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|--|---|-----------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | LED Street Lighting | One 100W HPS Street Light | Education | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-Penn Power | Red LED Traffic Light | One Red Incandescent Traffic Light | Education | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 0% | 1.4 |
| FE-Penn Power | Red LED Traffic Light | One Red Incandescent Traffic Light | Education | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.2 |
| FE-Penn Power | Red LED Traffic Light | One Red Incandescent Traffic Light | Education | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.2 |
| FE-Penn Power | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Education | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 0% | 0.1 |
| FE-Penn Power | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Education | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-Penn Power | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Education | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-Penn Power | Demand controlled Circulating Systems | Constant circulation system | Education | Water Heating | Existing | building | 30,038 | 20% | 0.2 | 15 | \$5,450 | 59% | 0.5 |
| FE-Penn Power | Demand controlled Circulating Systems | Constant circulation system | Education | Water Heating | New | building | 30,038 | 20% | 0.2 | 15 | \$7,321 | 59% | 0.4 |
| FE-Penn Power | Drainwater Heat Recovery Water Heater | No heat recovery | Education | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.5 |
| FE-Penn Power | Drainwater Heat Recovery Water Heater | No heat recovery | Education | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.5 |
| FE-Penn Power | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Education | Water Heating | Existing | building | 30,038 | 5.9% | 0.06 | 12 | \$210 | 85% | 3.3 |
| FE-Penn Power | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Education | Water Heating | New | building | 30,038 | 5.9% | 0.06 | 12 | \$60 | 85% | 11.4 |
| FE-Penn Power | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Education | Water Heating | Early | water heater | 46,899 | 66% | 5.5 | 10 | \$2,375 | 68% | 5.6 |
| FE-Penn Power | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Education | Water Heating | Early | water heater | 46,899 | 66% | 5.5 | 10 | \$2,375 | 68% | 5.6 |
| FE-Penn Power | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Education | Water Heating | New | water heater | 46,899 | 66% | 5.5 | 10 | \$2,375 | 68% | 5.6 |
| FE-Penn Power | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Education | Water Heating | New | water heater | 46,899 | 66% | 5.5 | 10 | \$2,375 | 68% | 5.6 |
| FE-Penn Power | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Education | Water Heating | ROB | water heater | 45,596 | 65% | 5.3 | 10 | \$2,375 | 68% | 5.4 |
| FE-Penn Power | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Education | Water Heating | ROB | water heater | 45,596 | 65% | 5.3 | 10 | \$2,375 | 68% | 5.4 |
| FE-Penn Power | Heat Recovery Unit | Base Water Heating | Education | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.3 |
| FE-Penn Power | Heat Recovery Unit | Base Water Heating | Education | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.3 |
| FE-Penn Power | Heat Trap | No Heat Trap | Education | Water Heating | Existing | building | 30,038 | 22% | 0.2 | 11 | \$205 | 50% | 11.9 |
| FE-Penn Power | Heat Trap | No Heat Trap | Education | Water Heating | New | building | 30,038 | 22% | 0.2 | 11 | \$30 | 50% | 79.7 |
| FE-Penn Power | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Education | Water Heating | Early | water heater | 46,899 | 5.9% | 0.5 | 15 | \$614 | 79% | 2.6 |
| FE-Penn Power | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Education | Water Heating | Early | water heater | 46,899 | 5.9% | 0.5 | 15 | \$614 | 79% | 2.6 |
| FE-Penn Power | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Education | Water Heating | New | water heater | 45,596 | 3.2% | 0.3 | 15 | \$614 | 79% | 1.4 |
| FE-Penn Power | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Education | Water Heating | New | water heater | 45,596 | 3.2% | 0.3 | 15 | \$614 | 79% | 1.4 |
| FE-Penn Power | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Education | Water Heating | ROB | water heater | 45,596 | 3.2% | 0.3 | 15 | \$614 | 79% | 1.4 |
| FE-Penn Power | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Education | Water Heating | ROB | water heater | 45,596 | 3.2% | 0.3 | 15 | \$614 | 79% | 1.4 |
| FE-Penn Power | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Education | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$466 | 81% | 32.0 |
| FE-Penn Power | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Education | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 16.7 |
| FE-Penn Power | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Education | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 16.7 |
| FE-Penn Power | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Education | Water Heating | Existing | building | 30,038 | 0.4% | 0.00 | 13 | \$16 | 68% | 3.2 |
| FE-Penn Power | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Education | Water Heating | New | building | 30,038 | 0.4% | 0.00 | 13 | \$16 | 0% | 3.2 |
| FE-Penn Power | Hot Water Circulation Pump Time-Clock | Constant circulation system | Education | Water Heating | Existing | building | 30,038 | 5.3% | 0.05 | 10 | \$121 | 72% | 4.5 |
| FE-Penn Power | Hot Water Circulation Pump Time-Clock | Constant circulation system | Education | Water Heating | New | building | 30,038 | 5.3% | 0.05 | 10 | \$121 | 72% | 4.5 |
| FE-Penn Power | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Education | Water Heating | Existing | building | 30,038 | 0.2% | 0.00 | 7 | \$22 | 78% | 0.8 |
| FE-Penn Power | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Education | Water Heating | New | building | 30,038 | 0.2% | 0.00 | 7 | \$0.5 | 78% | 34.6 |
| FE-Penn Power | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Education | Water Heating | Existing | building | 30,038 | 0.6% | 0.01 | 5 | \$300 | 20% | 0.1 |
| FE-Penn Power | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Education | Water Heating | New | building | 30,038 | 0.4% | 0.00 | 5 | \$194 | 20% | 0.1 |
| FE-Penn Power | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Education | Water Heating | Existing | building | 30,038 | 6.5% | 0.07 | 9 | \$200 | 2% | 3.1 |
| FE-Penn Power | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Education | Water Heating | New | building | 30,038 | 6.5% | 0.07 | 9 | \$48 | 2% | 13.0 |
| FE-Penn Power | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Education | Water Heating | Early | water heater | 46,899 | 52% | 2.0 | 15 | \$12,444 | 32% | 1.0 |
| FE-Penn Power | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Education | Water Heating | New | water heater | 45,596 | 51% | 1.9 | 15 | \$12,444 | 32% | 0.9 |
| FE-Penn Power | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Education | Water Heating | ROB | water heater | 45,596 | 51% | 1.9 | 15 | \$12,444 | 32% | 0.9 |
| FE-Penn Power | Ultrasonic Faucet Control | Manual Faucet Control | Education | Water Heating | Existing | building | 30,038 | 3.0% | 0.03 | 10 | \$5,195 | 77% | 0.1 |
| FE-Penn Power | Ultrasonic Faucet Control | Manual Faucet Control | Education | Water Heating | New | building | 30,038 | 3.0% | 0.03 | 10 | \$5,195 | 77% | 0.1 |
| FE-Penn Power | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Education | Water Heating | Existing | building | 30,038 | 2.2% | 0.02 | 4 | \$28 | 83% | 4.1 |
| FE-Penn Power | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Education | Water Heating | New | building | 30,038 | 2.3% | 0.02 | 4 | \$28 | 83% | 4.3 |
| FE-Penn Power | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Gov't | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 0.9 |
| FE-Penn Power | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Gov't | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 0.9 |
| FE-Penn Power | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Gov't | Cooking | Early | steamer | 51 | 46% | 0.00 | 12 | \$5,053 | 81% | 0.0 |
| FE-Penn Power | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Gov't | Cooking | New | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-Penn Power | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Gov't | Cooking | ROB | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-Penn Power | Electric combination oven (Energy Star) | Standard Oven | Gov't | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.5 |
| FE-Penn Power | Electric combination oven (Energy Star) | Standard Oven | Gov't | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.5 |
| FE-Penn Power | Electric Convection Oven | Conventional convection oven w/ 65% efficiency | Gov't | Cooking | Early | oven | 8,641 | 37% | 0.6 | 12 | \$4,119 | 81% | 0.4 |
| FE-Penn Power | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Gov't | Cooking | New | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.6 |
| FE-Penn Power | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Gov't | Cooking | ROB | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.6 |
| FE-Penn Power | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Gov't | Cooking | Early | fryer | 6,105 | 23% | 0.3 | 12 | \$9,241 | 86% | 0.1 |
| FE-Penn Power | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Gov't | Cooking | New | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| FE-Penn Power | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Gov't | Cooking | ROB | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| FE-Penn Power | High Efficiency Griddle (ENERGY STAR) | Efficiency code minimum griddle (70% eff) | Gov't | Cooking | Early | griddle | 11,317 | 65% | 1.4 | 12 | \$4,977 | 86% | 0.7 |
| FE-Penn Power | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Gov't | Cooking | New | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|--|---|---------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Gov't | Cooking | ROB | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.0 |
| FE-Penn Power | High Efficiency Induction Cooking | Standard Cooking | Gov't | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-Penn Power | High Efficiency Induction Cooking | Standard Cooking | Gov't | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-Penn Power | Active chilled beam cooling | No Active Chilled beam cooling | Gov't | Cooling Central | New | building | 2,757 | 5.3% | 0.05 | 15 | \$721 | 72% | 0.1 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Gov't | Cooling Central | Existing | building | 2,902 | 7.0% | 0.07 | 6 | \$12,330 | 82% | 0.0 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Gov't | Cooling Central | New | building | 2,902 | 7.0% | 0.07 | 6 | \$12,330 | 82% | 0.0 |
| FE-Penn Power | Adding window shade film | No shade film | Gov't | Cooling Central | Existing | building | 2,902 | 1.3% | 0.4 | 10 | \$35 | 12% | 6.8 |
| FE-Penn Power | Adding window shade film | No shade film | Gov't | Cooling Central | New | building | 2,902 | 1.3% | 0.4 | 10 | \$35 | 13% | 6.8 |
| FE-Penn Power | Adding window shade screen | No shade screen | Gov't | Cooling Central | Existing | building | 2,902 | 1.1% | 0.01 | 10 | \$14 | 13% | 1.2 |
| FE-Penn Power | Adding window shade screen | No shade screen | Gov't | Cooling Central | New | building | 2,902 | 1.0% | 0.01 | 10 | \$14 | 13% | 1.2 |
| FE-Penn Power | Automated control system | Manual Controls | Gov't | Cooling Central | Existing | building | 2,902 | 17% | 0.2 | 15 | \$3,177 | 51% | 0.1 |
| FE-Penn Power | Automated control system | Manual Controls | Gov't | Cooling Central | New | building | 2,902 | 17% | 0.2 | 15 | \$3,177 | 94% | 0.1 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Gov't | Cooling Central | Existing | building | 2,902 | 3.4% | 0.03 | 15 | \$17,130 | 71% | 0.0 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Gov't | Cooling Central | New | building | 2,902 | 1.1% | 0.01 | 15 | \$16,283 | 94% | 0.0 |
| FE-Penn Power | Chilled Water Reset, Optimizer System for Chiller(s) | No Chilled Water Reset | Gov't | Cooling Central | Existing | building | 2,902 | 3.7% | 0.04 | 10 | \$13 | 69% | 4.4 |
| FE-Penn Power | Chiller Tune Up Diagnostics | No Chiller Tune Up | Gov't | Cooling Central | Existing | building | 2,902 | 2.3% | 0.02 | 10 | \$2.9 | 59% | 12.3 |
| FE-Penn Power | Chiller Tuneup/Diagnostics | No tuneup | Gov't | Cooling Central | Existing | building | 2,902 | 8.0% | 0.08 | 10 | \$7,410 | 59% | 0.0 |
| FE-Penn Power | Chiller Tuneup/Diagnostics | No tuneup | Gov't | Cooling Central | New | building | 2,902 | 8.0% | 0.08 | 10 | \$7,410 | 59% | 0.0 |
| FE-Penn Power | Cooling Tower Optimization | No Cooling Tower Optimization | Gov't | Cooling Central | Existing | building | 2,902 | 4.9% | 0.05 | 10 | \$13 | 73% | 5.8 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Gov't | Cooling Central | Existing | building | 2,902 | 1.4% | 0.04 | 15 | \$23 | 20% | 2.1 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Gov't | Cooling Central | New | building | 2,902 | 1.4% | 0.04 | 15 | \$23 | 10% | 2.1 |
| FE-Penn Power | Facility Commissioning | No Facility Commissioning | Gov't | Cooling Central | New | building | 2,902 | 16% | 0.2 | 10 | \$138,494 | 89% | 0.0 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Gov't | Cooling Central | Existing | building | 2,902 | 7.0% | 0.07 | 15 | \$12,872 | 25% | 0.0 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Gov't | Cooling Central | New | building | 2,902 | 7.0% | 0.07 | 15 | \$12,872 | 35% | 0.0 |
| FE-Penn Power | Hi Eff HVAC System Design | No HVAC Design | Gov't | Cooling Central | New | building | 2,902 | 7.3% | 0.07 | 10 | \$1,019,647 | 51% | 0.0 |
| FE-Penn Power | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Gov't | Cooling Central | Early | ton | 4,330 | 24% | 0.4 | 15 | \$108,550 | 88% | 0.0 |
| FE-Penn Power | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Gov't | Cooling Central | New | ton | 3,540 | 6.7% | 0.09 | 15 | \$12,927 | 88% | 0.0 |
| FE-Penn Power | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Gov't | Cooling Central | ROB | ton | 3,540 | 6.7% | 0.09 | 15 | \$12,927 | 88% | 0.0 |
| FE-Penn Power | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Gov't | Cooling Central | Early | ton | 6,471 | 23% | 0.6 | 15 | \$140,105 | 88% | 0.0 |
| FE-Penn Power | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Gov't | Cooling Central | New | ton | 5,206 | 4.8% | 0.09 | 15 | \$9,336 | 88% | 0.0 |
| FE-Penn Power | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Gov't | Cooling Central | ROB | ton | 5,206 | 4.8% | 0.09 | 15 | \$9,336 | 88% | 0.0 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Gov't | Cooling Central | Early | ton | 52,971 | 26% | 5.0 | 15 | \$105,354 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Gov't | Cooling Central | New | ton | 46,153 | 15% | 2.5 | 15 | \$30,530 | 88% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Gov't | Cooling Central | ROB | ton | 46,153 | 15% | 2.5 | 15 | \$30,530 | 88% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Gov't | Cooling Central | Early | ton | 79,336 | 23% | 6.6 | 15 | \$154,107 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Gov't | Cooling Central | New | ton | 72,880 | 16% | 4.3 | 15 | \$27,646 | 88% | 0.3 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Gov't | Cooling Central | ROB | ton | 79,336 | 23% | 6.6 | 15 | \$27,646 | 88% | 0.5 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Gov't | Cooling Central | Early | ton | 131,762 | 23% | 10.9 | 15 | \$302,924 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Gov't | Cooling Central | New | ton | 119,254 | 14% | 6.3 | 15 | \$115,432 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Gov't | Cooling Central | ROB | ton | 131,762 | 23% | 10.9 | 15 | \$115,432 | 88% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Gov't | Cooling Central | Early | ton | 158,114 | 23% | 13.1 | 15 | \$350,154 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Gov't | Cooling Central | New | ton | 143,105 | 14% | 7.6 | 15 | \$120,406 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Gov't | Cooling Central | ROB | ton | 158,114 | 23% | 13.1 | 15 | \$120,406 | 88% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Gov't | Cooling Central | Early | ton | 35,047 | 29% | 3.8 | 15 | \$83,632 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Gov't | Cooling Central | New | ton | 27,214 | 8.9% | 0.9 | 15 | \$40,211 | 88% | 0.0 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Gov't | Cooling Central | ROB | ton | 35,047 | 29% | 3.8 | 15 | \$40,211 | 88% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Gov't | Cooling Central | Early | ton | 60,220 | 35% | 7.7 | 15 | \$132,173 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Gov't | Cooling Central | New | ton | 44,914 | 13% | 2.1 | 15 | \$39,556 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Gov't | Cooling Central | ROB | ton | 44,914 | 13% | 2.1 | 15 | \$39,556 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Gov't | Cooling Central | Early | ton | 100,542 | 39% | 14.4 | 15 | \$187,029 | 88% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Gov't | Cooling Central | New | ton | 71,685 | 15% | 3.8 | 15 | \$33,554 | 88% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Gov't | Cooling Central | ROB | ton | 100,542 | 39% | 14.4 | 15 | \$33,554 | 88% | 0.8 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|---|---------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Gov't | Cooling Central | Early | ton | 17,593 | 30% | 1.9 | 15 | \$32,398 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Gov't | Cooling Central | New | ton | 13,939 | 11% | 0.6 | 15 | \$7,188 | 88% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Gov't | Cooling Central | ROB | ton | 17,593 | 30% | 1.9 | 15 | \$7,188 | 88% | 0.5 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Gov't | Cooling Central | Existing | building | 2,902 | 1.0% | 0.01 | 10 | \$41,268 | 81% | 0.0 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Gov't | Cooling Central | New | building | 2,902 | 1.0% | 0.01 | 10 | \$41,268 | 81% | 0.0 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Gov't | Cooling Central | Existing | building | 2,902 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.1 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Gov't | Cooling Central | New | building | 2,902 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.2 |
| FE-Penn Power | Re-Commissioning (Existing Construction) | No Re-Commissioning | Gov't | Cooling Central | Existing | building | 2,902 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Gov't | Cooling Central | Existing | building | 2,902 | 6.0% | 0.06 | 15 | \$3,285 | 26% | 0.0 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Gov't | Cooling Central | New | building | 2,902 | 0.2% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| FE-Penn Power | <65k BTU/hr 14 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Gov't | Cooling Unitary | Early | ton | 2,159 | 16% | 0.3 | 15 | \$1,545 | 29% | 0.2 |
| FE-Penn Power | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Gov't | Cooling Unitary | New | ton | 1,955 | 7.1% | 0.1 | 15 | \$339 | 29% | 0.4 |
| FE-Penn Power | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Gov't | Cooling Unitary | ROB | ton | 1,955 | 7.1% | 0.1 | 15 | \$339 | 29% | 0.4 |
| FE-Penn Power | <65k BTU/hr 15 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Gov't | Cooling Unitary | Early | ton | 2,159 | 22% | 0.4 | 15 | \$1,821 | 30% | 0.3 |
| FE-Penn Power | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Gov't | Cooling Unitary | New | ton | 1,955 | 13% | 0.2 | 15 | \$714 | 30% | 0.4 |
| FE-Penn Power | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Gov't | Cooling Unitary | ROB | ton | 1,955 | 13% | 0.2 | 15 | \$714 | 30% | 0.4 |
| FE-Penn Power | <65k BTU/hr 16 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Gov't | Cooling Unitary | Early | ton | 2,159 | 26% | 0.5 | 15 | \$2,098 | 31% | 0.3 |
| FE-Penn Power | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Gov't | Cooling Unitary | New | ton | 1,955 | 19% | 0.3 | 15 | \$1,089 | 31% | 0.4 |
| FE-Penn Power | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Gov't | Cooling Unitary | ROB | ton | 1,955 | 19% | 0.3 | 15 | \$1,089 | 31% | 0.4 |
| FE-Penn Power | >760k min 10.2 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Gov't | Cooling Unitary | Early | ton | 54,615 | 3.7% | 1.6 | 15 | \$68,066 | 56% | 0.0 |
| FE-Penn Power | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Gov't | Cooling Unitary | New | ton | 55,315 | 4.9% | 2.2 | 15 | \$6,231 | 56% | 0.5 |
| FE-Penn Power | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Gov't | Cooling Unitary | ROB | ton | 55,315 | 4.9% | 2.2 | 15 | \$6,231 | 56% | 0.5 |
| FE-Penn Power | 135-240k min 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Gov't | Cooling Unitary | Early | ton | 13,438 | 18% | 1.9 | 15 | \$18,135 | 79% | 0.1 |
| FE-Penn Power | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Gov't | Cooling Unitary | New | ton | 12,224 | 10.0% | 1.0 | 15 | \$1,948 | 79% | 0.7 |
| FE-Penn Power | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Gov't | Cooling Unitary | ROB | ton | 12,224 | 10.0% | 1.0 | 15 | \$1,948 | 79% | 0.7 |
| FE-Penn Power | 240k-760k min 11 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Gov't | Cooling Unitary | Early | ton | 35,931 | 9.0% | 2.6 | 15 | \$44,809 | 66% | 0.1 |
| FE-Penn Power | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Gov't | Cooling Unitary | New | ton | 36,020 | 9.3% | 2.6 | 15 | \$4,813 | 66% | 0.7 |
| FE-Penn Power | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Gov't | Cooling Unitary | ROB | ton | 36,020 | 9.3% | 2.6 | 15 | \$4,813 | 66% | 0.7 |
| FE-Penn Power | 65k-135k BTU/hr 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Gov't | Cooling Unitary | Early | ton | 7,922 | 17% | 1.1 | 15 | \$10,946 | 86% | 0.1 |
| FE-Penn Power | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Gov't | Cooling Unitary | New | ton | 7,060 | 6.7% | 0.4 | 15 | \$1,392 | 86% | 0.4 |
| FE-Penn Power | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Gov't | Cooling Unitary | ROB | ton | 7,060 | 6.7% | 0.4 | 15 | \$1,392 | 86% | 0.4 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Gov't | Cooling Unitary | Existing | building | 43,077 | 7.1% | 0.07 | 6 | \$12,330 | 82% | 0.1 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Gov't | Cooling Unitary | New | building | 43,077 | 7.1% | 0.07 | 6 | \$12,330 | 82% | 0.1 |
| FE-Penn Power | Adding window shade film | No shade film | Gov't | Cooling Unitary | Existing | building | 43,077 | 1.3% | 0.4 | 10 | \$524 | 12% | 0.8 |
| FE-Penn Power | Adding window shade film | No shade film | Gov't | Cooling Unitary | New | building | 43,077 | 1.3% | 0.4 | 10 | \$524 | 13% | 0.8 |
| FE-Penn Power | Adding window shade screen | No shade screen | Gov't | Cooling Unitary | Existing | building | 43,077 | 1.1% | 0.01 | 10 | \$203 | 12% | 0.8 |
| FE-Penn Power | Adding window shade screen | No shade screen | Gov't | Cooling Unitary | New | building | 43,077 | 1.1% | 0.01 | 10 | \$203 | 13% | 0.8 |
| FE-Penn Power | Automated control system | Manual Controls | Gov't | Cooling Unitary | Existing | building | 43,077 | 17% | 0.2 | 15 | \$47,159 | 51% | 0.1 |
| FE-Penn Power | Automated control system | Manual Controls | Gov't | Cooling Unitary | New | building | 43,077 | 17% | 0.2 | 15 | \$47,159 | 94% | 0.1 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Gov't | Cooling Unitary | Existing | building | 43,077 | 3.4% | 0.03 | 15 | \$17,130 | 71% | 0.0 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Gov't | Cooling Unitary | New | building | 43,077 | 1.1% | 0.01 | 15 | \$16,283 | 94% | 0.0 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Gov't | Cooling Unitary | Existing | building | 43,077 | 1.4% | 0.04 | 15 | \$342 | 20% | 0.9 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Gov't | Cooling Unitary | New | building | 43,077 | 1.4% | 0.04 | 15 | \$342 | 10% | 0.9 |
| FE-Penn Power | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Gov't | Cooling Unitary | Existing | building | 23,541 | 13% | 0.1 | 1 | \$226 | 73% | 0.7 |
| FE-Penn Power | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Gov't | Cooling Unitary | New | building | 23,541 | 13% | 0.1 | 1 | \$226 | 73% | 0.7 |
| FE-Penn Power | ECM Motors for split systems | Std Shaded Pole Motor | Gov't | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.4 |
| FE-Penn Power | ECM Motors for split systems | Std Shaded Pole Motor | Gov't | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.4 |
| FE-Penn Power | Facility Commissioning | No Facility Commissioning | Gov't | Cooling Unitary | New | building | 43,077 | 16% | 0.2 | 10 | \$1,278 | 89% | 1.8 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Gov't | Cooling Unitary | Existing | building | 43,077 | 7.1% | 0.07 | 15 | \$191,081 | 25% | 0.0 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Gov't | Cooling Unitary | New | building | 43,077 | 7.1% | 0.07 | 15 | \$191,081 | 35% | 0.0 |
| FE-Penn Power | Hi Eff HVAC System Design | No HVAC Design | Gov't | Cooling Unitary | New | building | 43,077 | 7.3% | 0.07 | 10 | \$12,872 | 51% | 0.1 |
| FE-Penn Power | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Gov't | Cooling Unitary | Existing | building | 43,077 | 5.0% | 0.05 | 5 | \$225 | 59% | 2.0 |
| FE-Penn Power | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Gov't | Cooling Unitary | Existing | building | 43,077 | 0.3% | 0.04 | 5 | \$225 | 51% | 0.2 |
| FE-Penn Power | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Gov't | Cooling Unitary | New | building | 43,077 | 0.2% | 0.04 | 5 | \$135 | 51% | 0.2 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Gov't | Cooling Unitary | Existing | building | 43,077 | 1.1% | 0.01 | 10 | \$44,351 | 86% | 0.0 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Gov't | Cooling Unitary | New | building | 43,077 | 1.1% | 0.01 | 10 | \$44,351 | 86% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|--|---|---------|-----------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) | Gov't | Cooling Unitary | Existing | building | 43,077 | 2.0% | 0.02 | 11 | \$286 | 49% | 1.1 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Gov't | Cooling Unitary | New | building | 43,077 | 1.7% | 0.02 | 11 | \$146 | 49% | 1.8 |
| FE-Penn Power | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Gov't | Cooling Unitary | Early | unit | 660 | 19% | 0.05 | 15 | \$849 | 85% | 0.1 |
| FE-Penn Power | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Gov't | Cooling Unitary | New | unit | 667 | 20% | 0.05 | 15 | \$356 | 85% | 0.3 |
| FE-Penn Power | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Gov't | Cooling Unitary | ROB | unit | 667 | 20% | 0.05 | 15 | \$356 | 85% | 0.3 |
| FE-Penn Power | Re-Commissioning (Existing Construction) | No Re-Commissioning | Gov't | Cooling Unitary | Existing | building | 43,077 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.2 |
| FE-Penn Power | Room AC (w/ louvered sides) | Existing efficiency Room AC in Pennsylvania (2000 Federal Standards) | Gov't | Cooling Unitary | Early | ton | 1,019 | 13% | 0.05 | 9 | \$348 | 82% | 0.2 |
| FE-Penn Power | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Gov't | Cooling Unitary | New | ton | 924 | 4.5% | 0.02 | 9 | \$17 | 82% | 1.2 |
| FE-Penn Power | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Gov't | Cooling Unitary | ROB | ton | 924 | 4.5% | 0.02 | 9 | \$17 | 82% | 1.2 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Gov't | Cooling Unitary | Existing | building | 43,077 | 6.0% | 0.06 | 15 | \$3,285 | 26% | 0.4 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Gov't | Cooling Unitary | New | building | 43,077 | 0.2% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| FE-Penn Power | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Gov't | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 0.9 |
| FE-Penn Power | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Gov't | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.0 |
| FE-Penn Power | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Gov't | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.1 |
| FE-Penn Power | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Gov't | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 80% | 0.1 |
| FE-Penn Power | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Gov't | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 80% | 0.2 |
| FE-Penn Power | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Gov't | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 80% | 0.2 |
| FE-Penn Power | LED exterior lighting | 250 Watt Incandescent | Gov't | Ext. Lighting | ROB | measure | 282 | 83% | 0.04 | 15 | \$104 | 89% | 1.3 |
| FE-Penn Power | LED exterior lighting | 250 Watt Incandescent | Gov't | Ext. Lighting | ROB | measure | 282 | 83% | 0.04 | 15 | \$104 | 89% | 1.3 |
| FE-Penn Power | LED exterior lighting | 250 Watt Incandescent | Gov't | Ext. Lighting | ROB | measure | 282 | 83% | 0.04 | 15 | \$104 | 89% | 1.3 |
| FE-Penn Power | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Gov't | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 75% | 0.2 |
| FE-Penn Power | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Gov't | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 75% | 0.2 |
| FE-Penn Power | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Gov't | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.3 |
| FE-Penn Power | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Gov't | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 1.7 |
| FE-Penn Power | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Gov't | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.3 |
| FE-Penn Power | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Gov't | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 1.7 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Gov't | Heat Pump | Existing | building | 4,475 | 6.9% | 0.07 | 6 | \$12,330 | 82% | 0.0 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Gov't | Heat Pump | New | building | 4,475 | 6.9% | 0.07 | 6 | \$12,330 | 82% | 0.0 |
| FE-Penn Power | Adding window shade film | No shade film | Gov't | Heat Pump | Existing | building | 4,475 | 3.9% | 0.4 | 10 | \$54 | 12% | 5.1 |
| FE-Penn Power | Adding window shade film | No shade film | Gov't | Heat Pump | New | building | 4,475 | 3.9% | 0.4 | 10 | \$54 | 12% | 5.1 |
| FE-Penn Power | Adding window shade screen | No shade screen | Gov't | Heat Pump | Existing | building | 4,475 | 0.3% | 0.01 | 10 | \$7.0 | 12% | 1.5 |
| FE-Penn Power | Adding window shade screen | No shade screen | Gov't | Heat Pump | New | building | 4,475 | 0.3% | 0.01 | 10 | \$7.0 | 12% | 1.5 |
| FE-Penn Power | Automated control system | Manual Controls | Gov't | Heat Pump | Existing | building | 4,475 | 17% | 0.2 | 15 | \$4,899 | 51% | 0.1 |
| FE-Penn Power | Automated control system | Manual Controls | Gov't | Heat Pump | New | building | 4,475 | 17% | 0.2 | 15 | \$4,899 | 94% | 0.1 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Gov't | Heat Pump | Existing | building | 4,475 | 3.4% | 0.03 | 15 | \$17,130 | 71% | 0.0 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Gov't | Heat Pump | New | building | 4,475 | 1.1% | 0.01 | 15 | \$16,283 | 94% | 0.0 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Gov't | Heat Pump | Existing | building | 4,475 | 4.0% | 0.04 | 15 | \$36 | 12% | 2.9 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Gov't | Heat Pump | New | building | 4,475 | 4.0% | 0.04 | 15 | \$36 | 6% | 2.9 |
| FE-Penn Power | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Gov't | Heat Pump | Early | heat pump | 2,518 | 12% | 0.03 | 15 | \$4,070 | 83% | 0.0 |
| FE-Penn Power | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Gov't | Heat Pump | New | heat pump | 2,418 | 7.9% | 0.02 | 15 | \$1,097 | 83% | 0.1 |
| FE-Penn Power | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Gov't | Heat Pump | ROB | heat pump | 2,418 | 7.9% | 0.02 | 15 | \$1,097 | 83% | 0.1 |
| FE-Penn Power | Facility Commissioning | No Facility Commissioning | Gov't | Heat Pump | New | building | 4,475 | 16% | 0.2 | 10 | \$138,494 | 89% | 0.0 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Gov't | Heat Pump | Existing | building | 4,475 | 7.0% | 0.07 | 15 | \$19,850 | 25% | 0.0 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Gov't | Heat Pump | New | building | 4,475 | 7.0% | 0.07 | 15 | \$19,850 | 35% | 0.0 |
| FE-Penn Power | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Gov't | Heat Pump | Early | heat pump | 24,973 | 14% | 0.3 | 15 | \$91,117 | 19% | 0.0 |
| FE-Penn Power | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Gov't | Heat Pump | New | heat pump | 24,237 | 12% | 0.2 | 15 | \$33,927 | 19% | 0.0 |
| FE-Penn Power | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Gov't | Heat Pump | ROB | heat pump | 24,237 | 12% | 0.2 | 15 | \$33,927 | 19% | 0.0 |
| FE-Penn Power | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Gov't | Heat Pump | Early | heat pump | 24,973 | 14% | 0.3 | 15 | \$58,356 | 19% | 0.0 |
| FE-Penn Power | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Gov't | Heat Pump | New | heat pump | 24,237 | 12% | 0.2 | 15 | \$1,167 | 19% | 1.1 |
| FE-Penn Power | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Gov't | Heat Pump | ROB | heat pump | 24,237 | 12% | 0.2 | 15 | \$1,167 | 19% | 1.1 |
| FE-Penn Power | Hi Eff HVAC System Design | No HVAC Design | Gov't | Heat Pump | New | building | 4,475 | 7.3% | 0.07 | 10 | \$1,019,647 | 51% | 0.0 |
| FE-Penn Power | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Gov't | Heat Pump | Early | heat pump | 6,555 | 16% | 0.09 | 12 | \$4,298 | 81% | 0.1 |
| FE-Penn Power | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Gov't | Heat Pump | Early | heat pump | 6,555 | 26% | 0.1 | 12 | \$5,883 | 81% | 0.1 |
| FE-Penn Power | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Gov't | Heat Pump | New | heat pump | 6,304 | 12% | 0.07 | 12 | \$852 | 81% | 0.4 |
| FE-Penn Power | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Gov't | Heat Pump | New | heat pump | 6,304 | 23% | 0.1 | 12 | \$2,437 | 81% | 0.2 |
| FE-Penn Power | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Gov't | Heat Pump | ROB | heat pump | 6,304 | 12% | 0.07 | 12 | \$852 | 81% | 0.4 |
| FE-Penn Power | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Gov't | Heat Pump | ROB | heat pump | 6,304 | 23% | 0.1 | 12 | \$2,437 | 81% | 0.2 |
| FE-Penn Power | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Gov't | Heat Pump | Existing | building | 4,475 | 5.0% | 0.02 | 5 | \$90 | 51% | 0.5 |
| FE-Penn Power | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Gov't | Heat Pump | New | building | 4,475 | 5.0% | 0.02 | 5 | \$90 | 51% | 0.5 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Gov't | Heat Pump | Existing | building | 4,475 | 1.0% | 0.01 | 10 | \$39,486 | 81% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|--|---------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Gov't | Heat Pump | New | building | 4,475 | 1.0% | 0.01 | 10 | \$39,486 | 81% | 0.0 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Gov't | Heat Pump | Existing | building | 4,475 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.2 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Gov't | Heat Pump | New | building | 4,475 | 2.1% | 0.02 | 11 | \$146 | 49% | 0.3 |
| FE-Penn Power | Re-Commissioning (Existing Construction) | No Re-Commissioning | Gov't | Heat Pump | Existing | building | 4,475 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |
| FE-Penn Power | Wall Insulations (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Gov't | Heat Pump | Existing | building | 4,475 | 6.0% | 0.06 | 15 | \$3,285 | 26% | 0.0 |
| FE-Penn Power | Wall Insulations (Going upto R 21) | Code minimum Wall Insulations | Gov't | Heat Pump | New | building | 4,475 | 0.2% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| FE-Penn Power | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Gov't | Heat Pump | Early | heat pump | 10,699 | 37% | 0.3 | 15 | \$35,347 | 28% | 0.1 |
| FE-Penn Power | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Gov't | Heat Pump | New | heat pump | 10,281 | 35% | 0.3 | 15 | \$15,739 | 28% | 0.1 |
| FE-Penn Power | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Gov't | Heat Pump | ROB | heat pump | 10,281 | 35% | 0.3 | 15 | \$15,739 | 28% | 0.1 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Gov't | High Bay Lighting | Early | Fixture | 299 | 9.6% | 0.01 | 13 | \$850 | 39% | 0.0 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Gov't | High Bay Lighting | Early | Fixture | 299 | 9.5% | 0.01 | 13 | \$850 | 28% | 0.0 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Gov't | High Bay Lighting | Early | Fixture | 461 | 41% | 0.04 | 13 | \$850 | 36% | 0.1 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Gov't | High Bay Lighting | New | Fixture | 227 | 9.6% | 0.00 | 13 | \$372 | 39% | 0.0 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Gov't | High Bay Lighting | New | Fixture | 211 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Gov't | High Bay Lighting | New | Fixture | 350 | 41% | 0.03 | 13 | \$397 | 36% | 0.2 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Gov't | High Bay Lighting | ROB | Fixture | 299 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.0 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Gov't | High Bay Lighting | ROB | Fixture | 278 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Gov't | High Bay Lighting | ROB | Fixture | 461 | 41% | 0.04 | 13 | \$397 | 36% | 0.3 |
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Gov't | High Bay Lighting | Early | Fixture | 580 | 19% | 0.02 | 13 | \$851 | 38% | 0.1 |
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Gov't | High Bay Lighting | Early | Fixture | 587 | 20% | 0.02 | 13 | \$851 | 38% | 0.1 |
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | Early | Fixture | 1,708 | 73% | 0.2 | 13 | \$851 | 38% | 0.8 |
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Gov't | High Bay Lighting | New | Fixture | 441 | 19% | 0.02 | 13 | \$372 | 38% | 0.1 |
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | New | Fixture | 1,298 | 73% | 0.2 | 13 | \$383 | 38% | 1.3 |
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Gov't | High Bay Lighting | ROB | Fixture | 580 | 19% | 0.02 | 13 | \$372 | 38% | 0.2 |
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | ROB | Fixture | 1,708 | 73% | 0.2 | 13 | \$383 | 38% | 1.7 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Gov't | High Bay Lighting | Early | Fixture | 580 | 25% | 0.03 | 13 | \$554 | 29% | 0.1 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Gov't | High Bay Lighting | Early | Fixture | 569 | 23% | 0.03 | 13 | \$554 | 28% | 0.1 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | Early | Fixture | 1,708 | 74% | 0.2 | 13 | \$554 | 36% | 1.2 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Gov't | High Bay Lighting | New | Fixture | 441 | 25% | 0.02 | 13 | \$75 | 29% | 0.8 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | New | Fixture | 1,298 | 74% | 0.2 | 13 | \$86 | 36% | 5.9 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Gov't | High Bay Lighting | ROB | Fixture | 580 | 25% | 0.03 | 13 | \$75 | 29% | 1.0 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | ROB | Fixture | 1,708 | 74% | 0.2 | 13 | \$86 | 36% | 7.8 |
| FE-Penn Power | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Gov't | High Bay Lighting | Early | Fixture | 151 | 0.2% | 0.00 | 13 | \$835 | 38% | 0.0 |
| FE-Penn Power | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Gov't | High Bay Lighting | Early | Fixture | 326 | 54% | 0.03 | 13 | \$835 | 38% | 0.1 |
| FE-Penn Power | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Gov't | High Bay Lighting | New | Fixture | 248 | 54% | 0.03 | 13 | \$382 | 38% | 0.2 |
| FE-Penn Power | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Gov't | High Bay Lighting | ROB | Fixture | 326 | 54% | 0.03 | 13 | \$382 | 38% | 0.2 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Gov't | High Bay Lighting | Early | Fixture | 739 | 18% | 0.03 | 13 | \$487 | 25% | 0.1 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Gov't | High Bay Lighting | Early | Fixture | 773 | 22% | 0.03 | 13 | \$487 | 28% | 0.2 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | Early | Fixture | 1,708 | 65% | 0.2 | 13 | \$487 | 36% | 1.2 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Gov't | High Bay Lighting | New | Fixture | 562 | 18% | 0.02 | 13 | \$16 | 25% | 3.3 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | New | Fixture | 1,298 | 65% | 0.2 | 13 | \$18 | 36% | 24.0 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Gov't | High Bay Lighting | ROB | Fixture | 739 | 18% | 0.03 | 13 | \$16 | 25% | 4.4 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | ROB | Fixture | 1,708 | 65% | 0.2 | 13 | \$18 | 36% | 31.5 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Gov't | High Bay Lighting | Early | Fixture | 739 | 1.5% | 0.00 | 13 | \$557 | 19% | 0.0 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Gov't | High Bay Lighting | Early | Fixture | 761 | 4.3% | 0.01 | 13 | \$557 | 19% | 0.0 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | Early | Fixture | 1,708 | 57% | 0.2 | 13 | \$557 | 19% | 0.9 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Gov't | High Bay Lighting | New | Fixture | 562 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | New | Fixture | 1,298 | 57% | 0.1 | 13 | \$88 | 19% | 4.4 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Gov't | High Bay Lighting | ROB | Fixture | 739 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | ROB | Fixture | 1,708 | 57% | 0.2 | 13 | \$88 | 19% | 5.8 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Gov't | High Bay Lighting | Early | Fixture | 314 | 29% | 0.01 | 13 | \$492 | 71% | 0.1 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Gov't | High Bay Lighting | Early | Fixture | 262 | 15% | 0.01 | 13 | \$492 | 95% | 0.0 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Gov't | High Bay Lighting | Early | Fixture | 390 | 43% | 0.02 | 13 | \$492 | 95% | 0.2 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Gov't | High Bay Lighting | Early | Fixture | 361 | 38% | 0.02 | 13 | \$492 | 95% | 0.1 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Gov't | High Bay Lighting | New | Fixture | 199 | 15% | 0.00 | 13 | \$25 | 95% | 0.6 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Gov't | High Bay Lighting | New | Fixture | 296 | 43% | 0.02 | 13 | \$51 | 95% | 1.2 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Gov't | High Bay Lighting | ROB | Fixture | 262 | 15% | 0.01 | 13 | \$25 | 95% | 0.8 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Gov't | High Bay Lighting | ROB | Fixture | 390 | 43% | 0.02 | 13 | \$51 | 95% | 1.6 |
| FE-Penn Power | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Gov't | High Bay Lighting | Early | lamp | 114 | 16% | 0.00 | 9 | \$7.7 | 99% | 1.0 |
| FE-Penn Power | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Gov't | High Bay Lighting | New | lamp | 68 | 13% | 0.00 | 9 | \$1.6 | 91% | 2.1 |
| FE-Penn Power | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Gov't | High Bay Lighting | ROB | lamp | 110 | 13% | 0.00 | 9 | \$1.6 | 91% | 3.4 |
| FE-Penn Power | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Gov't | High Bay Lighting | Early | Fixture | 1,748 | 23% | 0.08 | 13 | \$613 | 5% | 0.3 |
| FE-Penn Power | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Gov't | High Bay Lighting | Early | Fixture | 1,373 | 1.6% | 0.00 | 13 | \$613 | 28% | 0.0 |
| FE-Penn Power | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | Early | Fixture | 3,417 | 60% | 0.4 | 13 | \$613 | 18% | 1.8 |
| FE-Penn Power | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Gov't | High Bay Lighting | New | Fixture | 1,329 | 23% | 0.06 | 13 | \$96 | 5% | 1.6 |
| FE-Penn Power | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Gov't | High Bay Lighting | ROB | Fixture | 1,748 | 23% | 0.08 | 13 | \$96 | 5% | 2.2 |
| FE-Penn Power | Auto Off Time Switch | Lighting w/ No Controls | Gov't | High Bay Lighting | Existing | building | 808 | 24% | 0.2 | 8 | \$1,034 | 13% | 0.2 |
| FE-Penn Power | Auto Off Time Switch | Lighting w/ No Controls | Gov't | High Bay Lighting | New | building | 808 | 6.9% | 0.07 | 8 | \$1,034 | 0% | 0.1 |
| FE-Penn Power | Central Lighting Control System | Lighting w/ No Controls | Gov't | High Bay Lighting | Existing | building | 808 | 38% | 0.4 | 8 | \$1,034 | 13% | 0.3 |
| FE-Penn Power | Central Lighting Control System | Lighting w/ No Controls | Gov't | High Bay Lighting | New | building | 808 | 14% | 0.1 | 8 | \$1,034 | 13% | 0.1 |
| FE-Penn Power | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Gov't | High Bay Lighting | New | building | 808 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|--|---------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Gov't | High Bay Lighting | New | building | 808 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |
| FE-Penn Power | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Gov't | High Bay Lighting | New | building | 808 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| FE-Penn Power | Indoor Daylight Sensors | Lighting w/ No Controls | Gov't | High Bay Lighting | Existing | building | 808 | 28% | 0.3 | 8 | \$5,088 | 13% | 0.0 |
| FE-Penn Power | Indoor Daylight Sensors | Lighting w/ No Controls | Gov't | High Bay Lighting | New | building | 808 | 4.0% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| FE-Penn Power | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Gov't | High Bay Lighting | Early | Fixture | 1,748 | 92% | 0.3 | 13 | \$1,916 | 95% | 0.4 |
| FE-Penn Power | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | Early | Fixture | 3,417 | 96% | 0.6 | 13 | \$1,916 | 95% | 0.9 |
| FE-Penn Power | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Gov't | High Bay Lighting | New | Fixture | 1,329 | 92% | 0.2 | 13 | \$1,468 | 95% | 0.4 |
| FE-Penn Power | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | New | Fixture | 2,597 | 96% | 0.5 | 13 | \$1,149 | 95% | 1.1 |
| FE-Penn Power | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Gov't | High Bay Lighting | ROB | Fixture | 1,748 | 92% | 0.3 | 13 | \$1,468 | 95% | 0.6 |
| FE-Penn Power | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | ROB | Fixture | 3,417 | 96% | 0.6 | 13 | \$1,149 | 95% | 1.5 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Gov't | High Bay Lighting | Early | Fixture | 580 | 67% | 0.07 | 13 | \$960 | 95% | 0.2 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Gov't | High Bay Lighting | Early | Fixture | 1,708 | 89% | 0.3 | 13 | \$960 | 95% | 0.8 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Gov't | High Bay Lighting | Early | Fixture | 469 | 59% | 0.05 | 13 | \$960 | 95% | 0.2 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Gov't | High Bay Lighting | New | Fixture | 441 | 67% | 0.06 | 13 | \$480 | 95% | 0.3 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Gov't | High Bay Lighting | New | Fixture | 1,298 | 89% | 0.2 | 13 | \$491 | 95% | 1.2 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Gov't | High Bay Lighting | New | Fixture | 356 | 59% | 0.04 | 13 | \$406 | 95% | 0.3 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Gov't | High Bay Lighting | ROB | Fixture | 580 | 67% | 0.07 | 13 | \$480 | 95% | 0.4 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Gov't | High Bay Lighting | ROB | Fixture | 1,708 | 89% | 0.3 | 13 | \$491 | 95% | 1.6 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Gov't | High Bay Lighting | ROB | Fixture | 469 | 59% | 0.05 | 13 | \$406 | 95% | 0.4 |
| FE-Penn Power | Occupancy Sensor | Lighting w/ No Controls | Gov't | High Bay Lighting | Existing | building | 808 | 24% | 0.2 | 8 | \$1,558 | 11% | 0.1 |
| FE-Penn Power | Occupancy Sensor | Lighting w/ No Controls | Gov't | High Bay Lighting | New | building | 808 | 6.9% | 0.07 | 8 | \$1,558 | 0% | 0.0 |
| FE-Penn Power | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Gov't | High Bay Lighting | Existing | building | 808 | 28% | 0.3 | 8 | \$5,088 | 11% | 0.0 |
| FE-Penn Power | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Gov't | High Bay Lighting | New | building | 808 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| FE-Penn Power | Time Clock Control | Lighting w/ No Controls | Gov't | High Bay Lighting | Existing | building | 808 | 28% | 0.3 | 8 | \$1,034 | 13% | 0.2 |
| FE-Penn Power | Time Clock Control | Lighting w/ No Controls | Gov't | High Bay Lighting | New | building | 808 | 4.1% | 0.04 | 8 | \$1,034 | 0% | 0.0 |
| FE-Penn Power | Auto Off Time Switch | Lighting w/ No Controls | Gov't | Lin. Fluor. Lighting | Existing | building | 15,769 | 24% | 0.2 | 8 | \$1,034 | 13% | 1.1 |
| FE-Penn Power | Auto Off Time Switch | Lighting w/ No Controls | Gov't | Lin. Fluor. Lighting | New | building | 15,769 | 7.0% | 0.07 | 8 | \$1,034 | 0% | 0.3 |
| FE-Penn Power | Central Lighting Control System | Lighting w/ No Controls | Gov't | Lin. Fluor. Lighting | Existing | building | 15,769 | 38% | 0.4 | 8 | \$1,034 | 12% | 1.8 |
| FE-Penn Power | Central Lighting Control System | Lighting w/ No Controls | Gov't | Lin. Fluor. Lighting | New | building | 15,769 | 14% | 0.1 | 8 | \$1,034 | 12% | 0.7 |
| FE-Penn Power | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Gov't | Lin. Fluor. Lighting | New | building | 15,769 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.0 |
| FE-Penn Power | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Gov't | Lin. Fluor. Lighting | New | building | 15,769 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |
| FE-Penn Power | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Gov't | Lin. Fluor. Lighting | New | building | 15,769 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| FE-Penn Power | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Gov't | Lin. Fluor. Lighting | Early | Lamp | 229 | 38% | 0.01 | 9 | \$7.3 | 94% | 4.6 |
| FE-Penn Power | Indoor Daylight Sensors | Lighting w/ No Controls | Gov't | Lin. Fluor. Lighting | Existing | building | 15,769 | 28% | 0.3 | 8 | \$5,088 | 13% | 0.3 |
| FE-Penn Power | Indoor Daylight Sensors | Lighting w/ No Controls | Gov't | Lin. Fluor. Lighting | New | building | 15,769 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | Early | Lamp | 38 | 19% | 0.00 | 15 | \$35 | 94% | 0.1 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 40W T12 Lamp, Magnetic Ballast | Gov't | Lin. Fluor. Lighting | Early | Lamp | 83 | 63% | 0.01 | 15 | \$35 | 94% | 0.8 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | Early | Lamp | 46 | 34% | 0.00 | 15 | \$35 | 94% | 0.3 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | Early | Lamp | 45 | 32% | 0.00 | 15 | \$35 | 94% | 0.2 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | New | Lamp | 29 | 19% | 0.00 | 15 | \$28 | 94% | 0.1 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | New | Lamp | 34 | 32% | 0.00 | 15 | \$29 | 94% | 0.2 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | New | Lamp | 35 | 34% | 0.00 | 15 | \$22 | 94% | 0.3 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | New | Lamp | 34 | 32% | 0.00 | 15 | \$29 | 94% | 0.2 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | ROB | Lamp | 38 | 19% | 0.00 | 15 | \$28 | 94% | 0.1 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | ROB | Lamp | 45 | 32% | 0.00 | 15 | \$29 | 94% | 0.3 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | ROB | Lamp | 46 | 34% | 0.00 | 15 | \$22 | 94% | 0.4 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | ROB | Lamp | 45 | 32% | 0.00 | 15 | \$29 | 94% | 0.3 |
| FE-Penn Power | Occupancy Sensor | Lighting w/ No Controls | Gov't | Lin. Fluor. Lighting | Existing | building | 15,769 | 24% | 0.2 | 8 | \$1,558 | 12% | 0.8 |
| FE-Penn Power | Occupancy Sensor | Lighting w/ No Controls | Gov't | Lin. Fluor. Lighting | New | building | 15,769 | 7.0% | 0.07 | 8 | \$1,558 | 0% | 0.2 |
| FE-Penn Power | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Gov't | Lin. Fluor. Lighting | Existing | building | 15,769 | 28% | 0.3 | 8 | \$5,088 | 11% | 0.3 |
| FE-Penn Power | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Gov't | Lin. Fluor. Lighting | New | building | 15,769 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 40W T12 w/ Magnetic Ballast | Gov't | Lin. Fluor. Lighting | Early | Lamp | 229 | 54% | 0.02 | 9 | \$9.1 | 94% | 5.3 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | Early | Lamp | 147 | 28% | 0.01 | 9 | \$9.1 | 24% | 1.8 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | Early | Lamp | 142 | 26% | 0.01 | 9 | \$9.1 | 94% | 1.6 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | New | Lamp | 108 | 26% | 0.00 | 9 | \$2.5 | 94% | 4.3 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | New | Lamp | 108 | 26% | 0.00 | 9 | \$2.5 | 94% | 4.3 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | New | Lamp | 112 | 28% | 0.00 | 9 | \$2.5 | 24% | 4.8 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | New | Lamp | 108 | 26% | 0.00 | 9 | \$2.5 | 94% | 4.3 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | ROB | Lamp | 142 | 26% | 0.01 | 9 | \$2.5 | 94% | 5.6 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | ROB | Lamp | 142 | 26% | 0.01 | 9 | \$2.5 | 94% | 5.6 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | ROB | Lamp | 147 | 28% | 0.01 | 9 | \$2.5 | 24% | 6.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|--|---------|---------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Escalator Motor Controller | Constant power control | Gov't | Motors | New | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 45% | 4.8 |
| FE-Penn Power | Escalator Motor Controller | Constant power control | Gov't | Motors | ROB | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 45% | 4.8 |
| FE-Penn Power | Fan Motor - correct sizing | Incorrect Fan Motor Sizing | Gov't | Motors | ROB | measure | 18,873 | 2.9% | 0.06 | 15 | \$36,818 | 92% | 0.0 |
| FE-Penn Power | Variable Speed Drive Control, 15HP | Existing Motors w/out VSD Drive | Gov't | Motors | Early | motor | 47,966 | 70% | 4.4 | 15 | \$731 | 86% | 23.5 |
| FE-Penn Power | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Gov't | Motors | New | motor | 46,935 | 72% | 4.4 | 15 | \$731 | 86% | 23.5 |
| FE-Penn Power | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Gov't | Motors | ROB | motor | 46,935 | 72% | 4.4 | 15 | \$731 | 86% | 23.5 |
| FE-Penn Power | Variable Speed Drive Control, 40HP | Existing Motors w/out VSD Drive | Gov't | Motors | Early | motor | 125,160 | 71% | 11.7 | 15 | \$4,666 | 86% | 9.7 |
| FE-Penn Power | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Gov't | Motors | New | motor | 123,696 | 72% | 11.7 | 15 | \$4,666 | 86% | 9.7 |
| FE-Penn Power | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Gov't | Motors | ROB | motor | 123,696 | 72% | 11.7 | 15 | \$4,666 | 86% | 9.7 |
| FE-Penn Power | Variable Speed Drive Control, 5HP | Existing Motors w/out VFD Drive | Gov't | Motors | Early | motor | 16,628 | 70% | 1.5 | 15 | \$2,243 | 86% | 2.7 |
| FE-Penn Power | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Gov't | Motors | New | motor | 16,257 | 72% | 1.5 | 15 | \$2,243 | 86% | 2.7 |
| FE-Penn Power | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Gov't | Motors | ROB | motor | 16,257 | 72% | 1.5 | 15 | \$2,243 | 86% | 2.7 |
| FE-Penn Power | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Gov't | Motors | Early | motor | 16,851 | 6.7% | 0.1 | 15 | \$268 | 13% | 2.1 |
| FE-Penn Power | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Gov't | Motors | New | motor | 16,851 | 6.7% | 0.1 | 15 | \$268 | 13% | 2.1 |
| FE-Penn Power | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Gov't | Motors | ROB | motor | 16,851 | 6.7% | 0.1 | 15 | \$268 | 13% | 2.1 |
| FE-Penn Power | VFD on Chilled Water Pump | Motor w/out VFD Drive | Gov't | Motors | Early | motor | 15,992 | 54% | 1.1 | 15 | \$2,903 | 86% | 1.5 |
| FE-Penn Power | VFD on Chilled Water Pump | Motor w/out VFD Drive | Gov't | Motors | New | motor | 15,693 | 55% | 1.1 | 15 | \$2,843 | 86% | 1.6 |
| FE-Penn Power | VFD on Chilled Water Pump | Motor w/out VFD Drive | Gov't | Motors | ROB | motor | 15,693 | 55% | 1.1 | 15 | \$2,843 | 86% | 1.6 |
| FE-Penn Power | VFD on Condenser Water Pump | Motor w/out VFD Drive | Gov't | Motors | Early | motor | 15,905 | 32% | 0.7 | 15 | \$2,903 | 86% | 0.9 |
| FE-Penn Power | VFD on Condenser Water Pump | Motor w/out VFD Drive | Gov't | Motors | New | motor | 15,607 | 33% | 0.7 | 15 | \$2,843 | 86% | 0.9 |
| FE-Penn Power | VFD on Condenser Water Pump | Motor w/out VFD Drive | Gov't | Motors | ROB | motor | 15,607 | 33% | 0.7 | 15 | \$2,843 | 86% | 0.9 |
| FE-Penn Power | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Gov't | Motors | Early | motor | 29,846 | 56% | 2.2 | 15 | \$2,903 | 86% | 2.9 |
| FE-Penn Power | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Gov't | Motors | New | motor | 29,288 | 57% | 2.2 | 15 | \$2,843 | 86% | 3.0 |
| FE-Penn Power | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Gov't | Motors | ROB | motor | 29,288 | 57% | 2.2 | 15 | \$2,843 | 86% | 3.0 |
| FE-Penn Power | VFD on HVAC Fan | Motor w/out VFD | Gov't | Motors | Early | motor | 15,992 | 70% | 1.5 | 15 | \$2,903 | 86% | 2.0 |
| FE-Penn Power | VFD on HVAC Fan | Motor w/out VFD | Gov't | Motors | New | motor | 15,693 | 72% | 1.5 | 15 | \$2,843 | 86% | 2.0 |
| FE-Penn Power | VFD on HVAC Fan | Motor w/out VFD | Gov't | Motors | ROB | motor | 15,693 | 72% | 1.5 | 15 | \$2,843 | 86% | 2.0 |
| FE-Penn Power | Elevators | Std. Eff Elevator | Gov't | Other | ROB | measure | 89,016 | 1.5% | 0.05 | 15 | \$116 | 63% | 5.1 |
| FE-Penn Power | Variable Speed Drives on Process Equipment | Constant speed control | Gov't | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 9.2 |
| FE-Penn Power | Variable Speed Drives on Process Equipment | Constant speed control | Gov't | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 9.2 |
| FE-Penn Power | Auto Off Time Switch | Lighting w/ No Controls | Gov't | Other Int. Lighting | Existing | building | 4,673 | 24% | 0.2 | 8 | \$1,034 | 13% | 0.4 |
| FE-Penn Power | Auto Off Time Switch | Lighting w/ No Controls | Gov't | Other Int. Lighting | New | building | 4,673 | 7.0% | 0.07 | 8 | \$1,034 | 0% | 0.1 |
| FE-Penn Power | Central Lighting Control System | Lighting w/ No Controls | Gov't | Other Int. Lighting | Existing | building | 4,673 | 38% | 0.4 | 8 | \$1,034 | 13% | 0.7 |
| FE-Penn Power | Central Lighting Control System | Lighting w/ No Controls | Gov't | Other Int. Lighting | New | building | 4,673 | 14% | 0.1 | 8 | \$1,034 | 13% | 0.2 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 40W Incandescent Bulb | Gov't | Other Int. Lighting | Early | lamp | 87 | 87% | 0.01 | 15 | \$30 | 14% | 1.4 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Gov't | Other Int. Lighting | Early | lamp | 62 | 81% | 0.01 | 15 | \$30 | 11% | 1.0 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Gov't | Other Int. Lighting | New | lamp | 47 | 81% | 0.01 | 15 | \$21 | 14% | 1.0 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Gov't | Other Int. Lighting | New | lamp | 47 | 81% | 0.01 | 15 | \$23 | 14% | 1.0 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Gov't | Other Int. Lighting | New | lamp | 47 | 81% | 0.01 | 15 | \$22 | 11% | 1.0 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Gov't | Other Int. Lighting | ROB | lamp | 62 | 81% | 0.01 | 15 | \$21 | 14% | 1.4 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Gov't | Other Int. Lighting | ROB | lamp | 62 | 81% | 0.01 | 15 | \$23 | 14% | 1.3 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Gov't | Other Int. Lighting | ROB | lamp | 62 | 81% | 0.01 | 15 | \$22 | 11% | 1.3 |
| FE-Penn Power | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Gov't | Other Int. Lighting | Early | lamp | 87 | 75% | 0.01 | 7 | \$73 | 24% | 0.3 |
| FE-Penn Power | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Gov't | Other Int. Lighting | New | fixture | 95 | 65% | 0.01 | 13 | \$29 | 28% | 1.1 |
| FE-Penn Power | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Gov't | Other Int. Lighting | New | lamp | 47 | 65% | 0.01 | 7 | \$29 | 28% | 0.4 |
| FE-Penn Power | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Gov't | Other Int. Lighting | ROB | fixture | 125 | 65% | 0.01 | 13 | \$29 | 24% | 1.5 |
| FE-Penn Power | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Gov't | Other Int. Lighting | ROB | lamp | 62 | 65% | 0.01 | 7 | \$29 | 24% | 0.5 |
| FE-Penn Power | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Gov't | Other Int. Lighting | Early | lamp | 87 | 75% | 0.01 | 7 | \$3.2 | 24% | 6.9 |
| FE-Penn Power | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Gov't | Other Int. Lighting | New | lamp | 47 | 65% | 0.01 | 7 | \$1.8 | 24% | 5.9 |
| FE-Penn Power | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Gov't | Other Int. Lighting | ROB | lamp | 62 | 65% | 0.01 | 7 | \$1.8 | 24% | 7.7 |
| FE-Penn Power | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Gov't | Other Int. Lighting | ROB | lamp | 62 | 65% | 0.01 | 7 | \$1.8 | 24% | 7.7 |
| FE-Penn Power | Exit Sign Retrofit: CFL replacing Incandescent | One 23W Single Sided Incandescent Exit Sign | Gov't | Other Int. Lighting | Early | exit sign | 139 | 42% | 0.01 | 15 | \$48 | 22% | 0.6 |
| FE-Penn Power | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Gov't | Other Int. Lighting | New | building | 4,673 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.0 |
| FE-Penn Power | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Gov't | Other Int. Lighting | New | building | 4,673 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |
| FE-Penn Power | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Gov't | Other Int. Lighting | New | building | 4,673 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| FE-Penn Power | Indoor Daylight Sensors | Lighting w/ No Controls | Gov't | Other Int. Lighting | Existing | building | 4,673 | 28% | 0.3 | 8 | \$5,088 | 13% | 0.1 |
| FE-Penn Power | Indoor Daylight Sensors | Lighting w/ No Controls | Gov't | Other Int. Lighting | New | building | 4,673 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| FE-Penn Power | LED Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Gov't | Other Int. Lighting | Early | sign | 153 | 87% | 0.02 | 15 | \$48 | 16% | 1.5 |
| FE-Penn Power | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Gov't | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 1.6 |
| FE-Penn Power | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Gov't | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 1.6 |
| FE-Penn Power | LED Task Lighting/Screw-In | 1 15W CFL bulb | Gov't | Other Int. Lighting | Early | lamp | 22 | 33% | 0.00 | 15 | \$9.6 | 24% | 0.4 |
| FE-Penn Power | LED Task Lighting/Screw-In | 1 60W Incandescent Bulb | Gov't | Other Int. Lighting | Early | lamp | 89 | 83% | 0.01 | 15 | \$9.6 | 24% | 4.4 |
| FE-Penn Power | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Gov't | Other Int. Lighting | New | lamp | 49 | 77% | 0.01 | 15 | \$7.9 | 24% | 2.7 |
| FE-Penn Power | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Gov't | Other Int. Lighting | New | lamp | 49 | 77% | 0.01 | 15 | \$7.9 | 24% | 2.7 |
| FE-Penn Power | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Gov't | Other Int. Lighting | ROB | lamp | 64 | 77% | 0.01 | 15 | \$7.9 | 24% | 3.5 |
| FE-Penn Power | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Gov't | Other Int. Lighting | ROB | lamp | 64 | 77% | 0.01 | 15 | \$7.9 | 24% | 3.5 |
| FE-Penn Power | Occupancy Sensor | Lighting w/ No Controls | Gov't | Other Int. Lighting | Existing | building | 4,673 | 24% | 0.2 | 8 | \$1,558 | 11% | 0.3 |
| FE-Penn Power | Occupancy Sensor | Lighting w/ No Controls | Gov't | Other Int. Lighting | New | building | 4,673 | 7.0% | 0.07 | 8 | \$1,558 | 0% | 0.1 |
| FE-Penn Power | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Gov't | Other Int. Lighting | Existing | building | 4,673 | 28% | 0.3 | 8 | \$5,088 | 11% | 0.1 |
| FE-Penn Power | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Gov't | Other Int. Lighting | New | building | 4,673 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| FE-Penn Power | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Gov't | Other Int. Lighting | Early | exit sign | 139 | 100% | 0.02 | 15 | \$173 | 26% | 0.4 |
| FE-Penn Power | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Gov't | Other Int. Lighting | New | exit sign | 80 | 100% | 0.01 | 15 | \$148 | 31% | 0.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|---|---------|---------------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Gov't | Other Int. Lighting | ROB | exit sign | 80 | 100% | 0.01 | 15 | \$148 | 26% | 0.3 |
| FE-Penn Power | Time Clock Control | Lighting w/ No Controls | Gov't | Other Int. Lighting | Existing | building | 4,673 | 28% | 0.3 | 8 | \$1,034 | 13% | 0.5 |
| FE-Penn Power | Time Clock Control | Lighting w/ No Controls | Gov't | Other Int. Lighting | New | building | 4,673 | 4.1% | 0.04 | 8 | \$1,034 | 0% | 0.1 |
| FE-Penn Power | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Gov't | Plug Load | Existing | building | 2,913 | 46% | 0.5 | 5 | \$189 | 4% | 2.2 |
| FE-Penn Power | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Gov't | Plug Load | New | building | 1,422 | 46% | 0.5 | 5 | \$189 | 4% | 1.5 |
| FE-Penn Power | Data Center - Server/Storage Consolidation | No Consolidation | Gov't | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penn Power | Data Center - Server/Storage Consolidation | No Consolidation | Gov't | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penn Power | Data Center - Server/Storage Virtualization | No Virtualization | Gov't | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penn Power | Data Center - Server/Storage Virtualization | No Virtualization | Gov't | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penn Power | Energy Star - Scanners | Std Scanner | Gov't | Plug Load | New | measure | 68 | 3.8% | 0.04 | 4 | \$130 | 7% | 0.1 |
| FE-Penn Power | Energy Star - Scanners | Std Scanner | Gov't | Plug Load | ROB | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| FE-Penn Power | Energy Star Battery Charging System (for small cordless products) | Std. Battery Charging System | Gov't | Plug Load | ROB | measure | 593 | 2.3% | 0.5 | 5 | \$65 | 4% | 2.9 |
| FE-Penn Power | Energy Star Dishwasher | Existing Dishwasher units | Gov't | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,580 | 1% | 0.9 |
| FE-Penn Power | Energy Star Dishwasher | Standard Dishwasher unit | Gov't | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 1% | 2.8 |
| FE-Penn Power | Energy Star Dishwasher | Standard Dishwasher unit | Gov't | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 1% | 2.8 |
| FE-Penn Power | Energy Star External Power Adapter | Std. Power Adapter | Gov't | Plug Load | New | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| FE-Penn Power | Energy Star External Power Adapter | Std. Power Adapter | Gov't | Plug Load | ROB | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| FE-Penn Power | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Gov't | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 17% | 0.1 |
| FE-Penn Power | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Gov't | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 1.7 |
| FE-Penn Power | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Gov't | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 1.7 |
| FE-Penn Power | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Gov't | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 9% | 0.7 |
| FE-Penn Power | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Gov't | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.5 |
| FE-Penn Power | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Gov't | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.5 |
| FE-Penn Power | ENERGY STAR® Copiers | 10% Less Efficient Copier | Gov't | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 18% | 0.0 |
| FE-Penn Power | ENERGY STAR® Copiers | One Conventional Copier | Gov't | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| FE-Penn Power | ENERGY STAR® Copiers | One Conventional Copier | Gov't | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| FE-Penn Power | ENERGY STAR® desktop | Standard computer | Gov't | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 69% | 0.1 |
| FE-Penn Power | ENERGY STAR® desktop | Standard computer | Gov't | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.2 |
| FE-Penn Power | ENERGY STAR® desktop | Standard computer | Gov't | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.2 |
| FE-Penn Power | ENERGY STAR® Fax | 10% Less Efficient Fax | Gov't | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 15% | 0.0 |
| FE-Penn Power | ENERGY STAR® Fax | One Conventional Fax | Gov't | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.1 |
| FE-Penn Power | ENERGY STAR® Fax | One Conventional Fax | Gov't | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.1 |
| FE-Penn Power | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Gov't | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 70% | 0.0 |
| FE-Penn Power | ENERGY STAR® Monitors | One Conventional Monitor | Gov't | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| FE-Penn Power | ENERGY STAR® Monitors | One Conventional Monitor | Gov't | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| FE-Penn Power | ENERGY STAR® Printers | 10% Less Efficient Printer | Gov't | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 44% | 0.0 |
| FE-Penn Power | ENERGY STAR® Printers | One Conventional Printer | Gov't | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| FE-Penn Power | ENERGY STAR® Printers | One Conventional Printer | Gov't | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| FE-Penn Power | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Gov't | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 43% | 0.1 |
| FE-Penn Power | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Gov't | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.6 |
| FE-Penn Power | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Gov't | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.6 |
| FE-Penn Power | ENERGY STAR® Televisions | 10% Less Efficient Television | Gov't | Plug Load | Early | Unit | 111 | 38% | 0.01 | 6 | \$672 | 40% | 0.0 |
| FE-Penn Power | ENERGY STAR® Televisions | One Conventional Television | Gov't | Plug Load | New | Unit | 101 | 32% | 0.01 | 6 | \$206 | 40% | 0.0 |
| FE-Penn Power | ENERGY STAR® Televisions | One Conventional Television | Gov't | Plug Load | ROB | Unit | 101 | 32% | 0.01 | 6 | \$206 | 40% | 0.0 |
| FE-Penn Power | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Gov't | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 24% | 0.2 |
| FE-Penn Power | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Gov't | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.5 |
| FE-Penn Power | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Gov't | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.5 |
| FE-Penn Power | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Gov't | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.2 |
| FE-Penn Power | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Gov't | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.2 |
| FE-Penn Power | Network PC Power Management | No PC Power Management | Gov't | Plug Load | Existing | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 14.4 |
| FE-Penn Power | Network PC Power Management | No PC Power Management | Gov't | Plug Load | New | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 14.4 |
| FE-Penn Power | Smart Strip Plug Outlets | Standard plug strip/outlet | Gov't | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.3 |
| FE-Penn Power | Smart Strip Plug Outlets | Standard plug strip/outlet | Gov't | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.3 |
| FE-Penn Power | Smart Strip Plug Outlets | Standard plug strip/outlet | Gov't | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| FE-Penn Power | Smart Strip Plug Outlets | Standard plug strip/outlet | Gov't | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| FE-Penn Power | Smart Strip Plug Outlets | Standard plug strip/outlet | Gov't | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| FE-Penn Power | Smart Strip Plug Outlets | Standard plug strip/outlet | Gov't | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| FE-Penn Power | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Gov't | Plug Load | Existing | building | 2,913 | 46% | 0.5 | 5 | \$180 | 3% | 2.3 |
| FE-Penn Power | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Gov't | Plug Load | New | building | 1,422 | 46% | 0.5 | 5 | \$180 | 3% | 1.6 |
| FE-Penn Power | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Gov't | Refrigeration | Existing | building | 727 | 1.1% | 0.01 | 12 | \$70 | 11% | 0.1 |
| FE-Penn Power | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Gov't | Refrigeration | New | building | 727 | 1.1% | 0.01 | 12 | \$70 | 11% | 0.1 |
| FE-Penn Power | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Gov't | Refrigeration | Existing | building | 727 | 7.0% | 0.07 | 12 | \$70 | 11% | 0.9 |
| FE-Penn Power | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Gov't | Refrigeration | New | building | 727 | 7.0% | 0.07 | 12 | \$70 | 11% | 0.9 |
| FE-Penn Power | Auto Closer on Refrigerator Door | Door w/out Autocloser | Gov't | Refrigeration | Existing | building | 3,637 | 27% | 0.3 | 8 | \$747 | 40% | 0.5 |
| FE-Penn Power | Auto Closer on Refrigerator Door | Door w/out Autocloser | Gov't | Refrigeration | Existing | building | 5,463 | 15% | 0.2 | 8 | \$763 | 40% | 0.4 |
| FE-Penn Power | Auto Closer on Refrigerator Door | Door w/out Autocloser | Gov't | Refrigeration | New | building | 3,637 | 27% | 0.3 | 8 | \$747 | 40% | 0.5 |
| FE-Penn Power | Auto Closer on Refrigerator Door | Door w/out Autocloser | Gov't | Refrigeration | New | building | 5,463 | 15% | 0.2 | 8 | \$763 | 40% | 0.4 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|---|---------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Demand Hot Gas Defrost | Base Refrigeration System | Gov't | Refrigeration | Existing | building | 727 | 3.0% | 0.03 | 10 | \$1,337 | 0% | 0.0 |
| FE-Penn Power | Demand Hot Gas Defrost | Base Refrigeration System | Gov't | Refrigeration | New | building | 727 | 3.0% | 0.03 | 10 | \$1,337 | 0% | 0.0 |
| FE-Penn Power | Door Gasket- Freezer | Door w/out Gasket | Gov't | Refrigeration | Existing | building | 3,637 | 15% | 0.1 | 4 | \$77 | 29% | 1.6 |
| FE-Penn Power | Door Gasket- Freezer | Door w/out Gasket | Gov't | Refrigeration | New | building | 3,637 | 15% | 0.1 | 4 | \$77 | 29% | 1.6 |
| FE-Penn Power | Door Gasket- Refrigerator | Door w/out Gasket | Gov't | Refrigeration | Existing | building | 5,463 | 4.8% | 0.05 | 4 | \$105 | 45% | 0.5 |
| FE-Penn Power | Door Gasket- Refrigerator | Door w/out Gasket | Gov't | Refrigeration | New | building | 5,463 | 4.8% | 0.05 | 4 | \$105 | 45% | 0.5 |
| FE-Penn Power | eCube | Refrigeration unit w/out eCube | Gov't | Refrigeration | Existing | building | 5,463 | 15% | 0.2 | 15 | \$504 | 57% | 0.9 |
| FE-Penn Power | eCube | Refrigeration unit w/out eCube | Gov't | Refrigeration | New | building | 5,463 | 15% | 0.2 | 15 | \$504 | 57% | 0.9 |
| FE-Penn Power | Efficient compressor motor | Base Refrigeration System - Grocery | Gov't | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.3 |
| FE-Penn Power | Efficient compressor motor | Base Refrigeration System - Grocery | Gov't | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.4 |
| FE-Penn Power | Efficient compressor motor | Base Refrigeration System - Grocery | Gov't | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.4 |
| FE-Penn Power | Efficient compressor motor | Base Refrigeration System - Grocery | Gov't | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.4 |
| FE-Penn Power | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Gov't | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.4 |
| FE-Penn Power | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Gov't | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.2 |
| FE-Penn Power | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Gov't | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.2 |
| FE-Penn Power | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Gov't | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.2 |
| FE-Penn Power | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Gov't | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.6 |
| FE-Penn Power | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Gov't | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.6 |
| FE-Penn Power | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Gov't | Refrigeration | Existing | building | 5,463 | 1.7% | 0.02 | 10 | \$369 | 77% | 0.1 |
| FE-Penn Power | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Gov't | Refrigeration | New | building | 5,463 | 1.7% | 0.02 | 10 | \$369 | 77% | 0.1 |
| FE-Penn Power | Floating head pressure controller | System w/out FHPC | Gov't | Refrigeration | Existing | building | 3,637 | 6.4% | 0.03 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penn Power | Floating head pressure controller | System w/out FHPC | Gov't | Refrigeration | Existing | building | 727 | 13% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penn Power | Floating head pressure controller | System w/out FHPC | Gov't | Refrigeration | Existing | building | 5,463 | 1.5% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penn Power | Floating head pressure controller | System w/out FHPC | Gov't | Refrigeration | New | building | 3,637 | 6.4% | 0.03 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penn Power | Floating head pressure controller | System w/out FHPC | Gov't | Refrigeration | New | building | 727 | 13% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penn Power | Floating head pressure controller | System w/out FHPC | Gov't | Refrigeration | New | building | 5,463 | 1.5% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penn Power | High Efficiency Commercial Freezer | Std. Commercial Freezer | Gov't | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 86% | 0.3 |
| FE-Penn Power | High Efficiency Commercial Freezer | Std. Commercial Freezer | Gov't | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 3.2 |
| FE-Penn Power | High Efficiency Commercial Freezer | Std. Commercial Freezer | Gov't | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 3.2 |
| FE-Penn Power | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Gov't | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 2% | 0.1 |
| FE-Penn Power | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Gov't | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.7 |
| FE-Penn Power | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Gov't | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.7 |
| FE-Penn Power | High Efficiency Ice Maker | Exisiting Standard Efficiency Ice Maker in Pennsylvania | Gov't | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 73% | 0.1 |
| FE-Penn Power | High Efficiency Ice Maker | Standard code minimum Ice Maker | Gov't | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.1 |
| FE-Penn Power | High Efficiency Ice Maker | Standard code minimum Ice Maker | Gov't | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.1 |
| FE-Penn Power | High Efficiency Ice Making Head | Standard Ice Making Head | Gov't | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.2 |
| FE-Penn Power | High Efficiency Ice Making Head | Standard Ice Making Head | Gov't | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.2 |
| FE-Penn Power | High R-Value Glass Doors | Base Refrigeration System - Grocery | Gov't | Refrigeration | Existing | building | 727 | 0.7% | 0.01 | 10 | \$15 | 0% | 0.4 |
| FE-Penn Power | High R-Value Glass Doors | Base Refrigeration System - Grocery | Gov't | Refrigeration | New | building | 727 | 0.7% | 0.01 | 10 | \$15 | 0% | 0.4 |
| FE-Penn Power | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Gov't | Refrigeration | Early | Fixture | 373 | 56% | 0.01 | 8 | \$448 | 47% | 0.1 |
| FE-Penn Power | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Gov't | Refrigeration | New | Fixture | 291 | 44% | 0.00 | 8 | \$139 | 47% | 0.3 |
| FE-Penn Power | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Gov't | Refrigeration | ROB | Fixture | 291 | 44% | 0.00 | 8 | \$139 | 47% | 0.3 |
| FE-Penn Power | No-heat glass doors | Standard low-temp reach-in | Gov't | Refrigeration | Existing | building | 727 | 20% | 0.2 | 10 | \$1,373 | 8% | 0.1 |
| FE-Penn Power | No-heat glass doors | Standard low-temp reach-in | Gov't | Refrigeration | New | building | 727 | 20% | 0.2 | 10 | \$1,373 | 8% | 0.1 |
| FE-Penn Power | Quick acting freezer doors | Std. Freezer Doors | Gov't | Refrigeration | Existing | building | 3,637 | 13% | 0.1 | 10 | \$808 | 56% | 0.3 |
| FE-Penn Power | Quick acting freezer doors | Std. Freezer Doors | Gov't | Refrigeration | New | building | 3,637 | 13% | 0.1 | 10 | \$808 | 56% | 0.3 |
| FE-Penn Power | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Gov't | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 30% | 0.3 |
| FE-Penn Power | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Gov't | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.3 |
| FE-Penn Power | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Gov't | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.3 |
| FE-Penn Power | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 30% | 1.3 |
| FE-Penn Power | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 2.2 |
| FE-Penn Power | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 2.2 |
| FE-Penn Power | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 30% | 1.3 |
| FE-Penn Power | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 3.0 |
| FE-Penn Power | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 3.0 |
| FE-Penn Power | Refrigeration Commissioning | Non-commissioned refrigeration system | Gov't | Refrigeration | Existing | building | 10,184 | 9.5% | 0.10 | 3 | \$3,613 | 85% | 0.0 |
| FE-Penn Power | Refrigeration Commissioning | Non-commissioned refrigeration system | Gov't | Refrigeration | New | building | 10,184 | 9.5% | 0.10 | 3 | \$3,613 | 85% | 0.0 |
| FE-Penn Power | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Gov't | Refrigeration | Existing | building | 3,637 | 35% | 0.3 | 4 | \$93 | 22% | 3.2 |
| FE-Penn Power | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Gov't | Refrigeration | Existing | building | 5,463 | 6.8% | 0.07 | 4 | \$128 | 22% | 0.6 |
| FE-Penn Power | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Gov't | Refrigeration | New | building | 3,637 | 35% | 0.3 | 4 | \$93 | 22% | 3.2 |
| FE-Penn Power | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Gov't | Refrigeration | New | building | 5,463 | 6.8% | 0.07 | 4 | \$128 | 22% | 0.6 |
| FE-Penn Power | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Gov't | Refrigeration | Existing | building | 3,637 | 5.9% | 0.06 | 11 | \$119 | 79% | 0.9 |
| FE-Penn Power | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Gov't | Refrigeration | New | building | 3,637 | 5.9% | 0.06 | 11 | \$119 | 79% | 0.9 |
| FE-Penn Power | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Gov't | Refrigeration | Existing | building | 5,463 | 4.5% | 0.05 | 11 | \$119 | 79% | 0.9 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|--|---------|-----------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Gov't | Refrigeration | New | building | 5,463 | 4.5% | 0.05 | 11 | \$119 | 79% | 0.9 |
| FE-Penn Power | Vertical Night Covers | Display cases w/out night covers-High Temperature | Gov't | Refrigeration | Existing | building | 727 | 0.6% | 0.01 | 5 | \$52 | 9% | 0.1 |
| FE-Penn Power | Vertical Night Covers | Display cases w/out night covers-High Temperature | Gov't | Refrigeration | New | building | 727 | 0.6% | 0.01 | 5 | \$52 | 9% | 0.1 |
| FE-Penn Power | VSD Controlled Compressor | Compressor w/out VSD | Gov't | Refrigeration | Early | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |
| FE-Penn Power | VSD Controlled Compressor | Compressor w/out VSD | Gov't | Refrigeration | New | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |
| FE-Penn Power | VSD Controlled Compressor | Compressor w/out VSD | Gov't | Refrigeration | ROB | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |
| FE-Penn Power | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Gov't | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$269 | 35% | 0.7 |
| FE-Penn Power | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Gov't | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$269 | 35% | 0.7 |
| FE-Penn Power | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Gov't | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 2.4 |
| FE-Penn Power | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Gov't | Refrigeration | New | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 2.3 |
| FE-Penn Power | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Gov't | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 2.4 |
| FE-Penn Power | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Gov't | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 2.3 |
| FE-Penn Power | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 35% | 1.9 |
| FE-Penn Power | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 35% | 1.8 |
| FE-Penn Power | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 4.0 |
| FE-Penn Power | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 3.7 |
| FE-Penn Power | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 3.9 |
| FE-Penn Power | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 3.7 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Gov't | Space Heating | Existing | building | 9,697 | 7.1% | 0.07 | 6 | \$12,330 | 82% | 0.0 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Gov't | Space Heating | New | building | 9,697 | 7.1% | 0.07 | 6 | \$12,330 | 82% | 0.0 |
| FE-Penn Power | Adding window shade film | No shade film | Gov't | Space Heating | Existing | building | 9,697 | 1.3% | 0.4 | 10 | \$118 | 13% | 2.2 |
| FE-Penn Power | Adding window shade film | No shade film | Gov't | Space Heating | New | building | 9,697 | 1.3% | 0.4 | 10 | \$118 | 13% | 2.2 |
| FE-Penn Power | Adding window shade screen | No shade screen | Gov't | Space Heating | Existing | building | 9,697 | 1.1% | 0.01 | 10 | \$46 | 13% | 0.8 |
| FE-Penn Power | Adding window shade screen | No shade screen | Gov't | Space Heating | New | building | 9,697 | 1.1% | 0.01 | 10 | \$46 | 13% | 0.8 |
| FE-Penn Power | Automated control system | Manual Controls | Gov't | Space Heating | Existing | building | 9,697 | 17% | 0.2 | 15 | \$10,616 | 51% | 0.1 |
| FE-Penn Power | Automated control system | Manual Controls | Gov't | Space Heating | New | building | 9,697 | 17% | 0.2 | 15 | \$10,616 | 94% | 0.1 |
| FE-Penn Power | Ceiling Insulations (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Gov't | Space Heating | Existing | building | 9,697 | 3.4% | 0.03 | 15 | \$17,130 | 71% | 0.0 |
| FE-Penn Power | Ceiling Insulations (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Gov't | Space Heating | New | building | 9,697 | 1.1% | 0.01 | 15 | \$16,283 | 94% | 0.0 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Gov't | Space Heating | Existing | building | 9,697 | 1.4% | 0.04 | 15 | \$77 | 20% | 1.1 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Gov't | Space Heating | New | building | 9,697 | 1.4% | 0.04 | 15 | \$77 | 10% | 1.1 |
| FE-Penn Power | Efficient Unit Heating System | Existing Unit Heaters in PA | Gov't | Space Heating | Early | heater | 38,406 | 23% | 0.06 | 15 | \$3,289 | 83% | 1.0 |
| FE-Penn Power | Efficient Unit Heating System | Std. Unit Heater | Gov't | Space Heating | New | heater | 34,086 | 13% | 0.03 | 15 | \$1,991 | 83% | 0.9 |
| FE-Penn Power | Efficient Unit Heating System | Std. Unit Heater | Gov't | Space Heating | ROB | heater | 34,086 | 13% | 0.03 | 15 | \$1,991 | 83% | 0.9 |
| FE-Penn Power | Facility Commissioning | No Facility Commissioning | Gov't | Space Heating | New | building | 9,697 | 16% | 0.2 | 10 | \$138,494 | 89% | 0.0 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Gov't | Space Heating | Existing | building | 9,697 | 7.1% | 0.07 | 15 | \$43,014 | 25% | 0.0 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Gov't | Space Heating | New | building | 9,697 | 7.1% | 0.07 | 15 | \$43,014 | 35% | 0.0 |
| FE-Penn Power | Hi Eff HVAC System Design | No HVAC Design | Gov't | Space Heating | New | building | 9,697 | 7.4% | 0.07 | 10 | \$1,019,647 | 51% | 0.0 |
| FE-Penn Power | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Gov't | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 0.8 |
| FE-Penn Power | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Gov't | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 0.8 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Gov't | Space Heating | Existing | building | 9,697 | 1.1% | 0.01 | 10 | \$7,735 | 81% | 0.0 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Gov't | Space Heating | New | building | 9,697 | 1.1% | 0.01 | 10 | \$7,735 | 81% | 0.0 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Gov't | Space Heating | Existing | building | 9,697 | 3.6% | 0.04 | 11 | \$286 | 49% | 0.5 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Gov't | Space Heating | New | building | 9,697 | 3.1% | 0.03 | 11 | \$146 | 49% | 0.8 |
| FE-Penn Power | Re-Commissioning (Existing Construction) | No Re-Commissioning | Gov't | Space Heating | Existing | building | 9,697 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |
| FE-Penn Power | Wall Insulations (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Gov't | Space Heating | Existing | building | 9,697 | 6.0% | 0.06 | 15 | \$3,285 | 26% | 0.1 |
| FE-Penn Power | Wall Insulations (Going upto R 21) | Code minimum Wall Insulations | Gov't | Space Heating | New | building | 9,697 | 0.2% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| FE-Penn Power | Green LED Traffic Light | Green Incandescent Traffic Light | Gov't | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 0% | 1.0 |
| FE-Penn Power | Green LED Traffic Light | Green Incandescent Traffic Light | Gov't | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| FE-Penn Power | Green LED Traffic Light | Green Incandescent Traffic Light | Gov't | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| FE-Penn Power | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Gov't | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 0% | 2.6 |
| FE-Penn Power | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Gov't | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-Penn Power | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Gov't | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-Penn Power | Induction Street Lighting | One 100W HPS Street Light Fixture | Gov't | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 0% | 0.2 |
| FE-Penn Power | Induction Street Lighting | One 100W HPS Street Light Fixture | Gov't | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.4 |
| FE-Penn Power | Induction Street Lighting | One 100W HPS Street Light Fixture | Gov't | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.4 |
| FE-Penn Power | LED Street Lighting | One 100W HPS Street Light | Gov't | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 0% | 0.2 |
| FE-Penn Power | LED Street Lighting | One 100W HPS Street Light | Gov't | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-Penn Power | LED Street Lighting | One 100W HPS Street Light | Gov't | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-Penn Power | Red LED Traffic Light | One Red Incandescent Traffic Light | Gov't | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 0% | 1.4 |
| FE-Penn Power | Red LED Traffic Light | One Red Incandescent Traffic Light | Gov't | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.2 |
| FE-Penn Power | Red LED Traffic Light | One Red Incandescent Traffic Light | Gov't | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.2 |
| FE-Penn Power | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Gov't | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 0% | 0.1 |
| FE-Penn Power | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Gov't | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-Penn Power | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Gov't | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-Penn Power | Demand controlled Circulating Systems | Constant circulation system | Gov't | Water Heating | Existing | building | 8,529 | 20% | 0.2 | 15 | \$1,548 | 59% | 0.6 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|--|---|---------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Demand controlled Circulating Systems | Constant circulation system | Gov't | Water Heating | New | building | 8,529 | 20% | 0.2 | 15 | \$1,548 | 59% | 0.6 |
| FE-Penn Power | Drainwater Heat Recovery Water Heater | No heat recovery | Gov't | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.5 |
| FE-Penn Power | Drainwater Heat Recovery Water Heater | No heat recovery | Gov't | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.5 |
| FE-Penn Power | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Gov't | Water Heating | Existing | building | 8,529 | 5.9% | 0.06 | 12 | \$42 | 85% | 5.3 |
| FE-Penn Power | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Gov't | Water Heating | New | building | 8,529 | 5.9% | 0.06 | 12 | \$12 | 85% | 18.6 |
| FE-Penn Power | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Gov't | Water Heating | Early | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 2.5 |
| FE-Penn Power | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Gov't | Water Heating | Early | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 2.5 |
| FE-Penn Power | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Gov't | Water Heating | New | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 2.5 |
| FE-Penn Power | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Gov't | Water Heating | New | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 2.5 |
| FE-Penn Power | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Gov't | Water Heating | ROB | water heater | 10,350 | 65% | 1.2 | 10 | \$1,187 | 68% | 2.4 |
| FE-Penn Power | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Gov't | Water Heating | ROB | water heater | 10,350 | 65% | 1.2 | 10 | \$1,187 | 68% | 2.4 |
| FE-Penn Power | Heat Recovery Unit | Base Water Heating | Gov't | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.3 |
| FE-Penn Power | Heat Recovery Unit | Base Water Heating | Gov't | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.3 |
| FE-Penn Power | Heat Trap | No Heat Trap | Gov't | Water Heating | Existing | building | 8,529 | 22% | 0.2 | 11 | \$58 | 50% | 13.7 |
| FE-Penn Power | Heat Trap | No Heat Trap | Gov't | Water Heating | New | building | 8,529 | 22% | 0.2 | 11 | \$8.7 | 50% | 91.7 |
| FE-Penn Power | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Gov't | Water Heating | Early | water heater | 10,645 | 5.9% | 0.1 | 15 | \$307 | 79% | 1.2 |
| FE-Penn Power | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Gov't | Water Heating | Early | water heater | 10,645 | 5.9% | 0.1 | 15 | \$307 | 79% | 1.2 |
| FE-Penn Power | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Gov't | Water Heating | New | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.6 |
| FE-Penn Power | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Gov't | Water Heating | New | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.6 |
| FE-Penn Power | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Gov't | Water Heating | ROB | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.6 |
| FE-Penn Power | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Gov't | Water Heating | ROB | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.6 |
| FE-Penn Power | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Gov't | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$466 | 81% | 32.0 |
| FE-Penn Power | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Gov't | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 16.7 |
| FE-Penn Power | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Gov't | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 16.7 |
| FE-Penn Power | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Gov't | Water Heating | Existing | building | 8,529 | 0.4% | 0.00 | 13 | \$4.9 | 68% | 3.4 |
| FE-Penn Power | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Gov't | Water Heating | New | building | 8,529 | 0.4% | 0.00 | 13 | \$4.9 | 0% | 3.4 |
| FE-Penn Power | Hot Water Circulation Pump Time-Clock | Constant circulation system | Gov't | Water Heating | Existing | building | 8,529 | 5.3% | 0.05 | 10 | \$34 | 72% | 5.2 |
| FE-Penn Power | Hot Water Circulation Pump Time-Clock | Constant circulation system | Gov't | Water Heating | New | building | 8,529 | 5.3% | 0.05 | 10 | \$34 | 72% | 5.2 |
| FE-Penn Power | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Gov't | Water Heating | Existing | building | 8,529 | 0.9% | 0.01 | 7 | \$22 | 78% | 1.1 |
| FE-Penn Power | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Gov't | Water Heating | New | building | 8,529 | 0.8% | 0.01 | 7 | \$0.5 | 78% | 41.9 |
| FE-Penn Power | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Gov't | Water Heating | Existing | building | 8,529 | 2.3% | 0.02 | 5 | \$300 | 20% | 0.2 |
| FE-Penn Power | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Gov't | Water Heating | New | building | 8,529 | 1.5% | 0.02 | 5 | \$194 | 20% | 0.2 |
| FE-Penn Power | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Gov't | Water Heating | Existing | building | 8,529 | 6.5% | 0.07 | 9 | \$25 | 2% | 34.0 |
| FE-Penn Power | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Gov't | Water Heating | New | building | 8,529 | 6.5% | 0.07 | 9 | \$6.0 | 2% | 34.0 |
| FE-Penn Power | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Gov't | Water Heating | Early | water heater | 10,645 | 52% | 0.4 | 15 | \$6,222 | 32% | 0.4 |
| FE-Penn Power | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Gov't | Water Heating | New | water heater | 10,350 | 51% | 0.4 | 15 | \$6,222 | 32% | 0.4 |
| FE-Penn Power | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Gov't | Water Heating | ROB | water heater | 10,350 | 51% | 0.4 | 15 | \$6,222 | 32% | 0.4 |
| FE-Penn Power | Ultrasonic Faucet Control | Manual Faucet Control | Gov't | Water Heating | Existing | building | 8,529 | 3.0% | 0.03 | 10 | \$1,475 | 77% | 0.1 |
| FE-Penn Power | Ultrasonic Faucet Control | Manual Faucet Control | Gov't | Water Heating | New | building | 8,529 | 3.1% | 0.03 | 10 | \$1,475 | 77% | 0.1 |
| FE-Penn Power | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Gov't | Water Heating | Existing | building | 8,529 | 2.2% | 0.02 | 4 | \$28 | 83% | 1.4 |
| FE-Penn Power | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Gov't | Water Heating | New | building | 8,529 | 2.3% | 0.02 | 4 | \$28 | 83% | 1.4 |
| FE-Penn Power | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Grocery | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 0.9 |
| FE-Penn Power | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Grocery | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 0.9 |
| FE-Penn Power | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Grocery | Cooking | Early | steamer | 51 | 46% | 0.00 | 12 | \$5,053 | 81% | 0.0 |
| FE-Penn Power | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Grocery | Cooking | New | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-Penn Power | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Grocery | Cooking | ROB | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-Penn Power | Electric combination oven (Energy Star) | Standard Oven | Grocery | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.5 |
| FE-Penn Power | Electric combination oven (Energy Star) | Standard Oven | Grocery | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.5 |
| FE-Penn Power | Electric Convection Oven | Conventional convection oven w/ 65% efficiency | Grocery | Cooking | Early | oven | 8,641 | 37% | 0.6 | 12 | \$4,119 | 81% | 0.4 |
| FE-Penn Power | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Grocery | Cooking | New | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.6 |
| FE-Penn Power | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Grocery | Cooking | ROB | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.6 |
| FE-Penn Power | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Grocery | Cooking | Early | fryer | 6,105 | 23% | 0.3 | 12 | \$9,241 | 86% | 0.1 |
| FE-Penn Power | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Grocery | Cooking | New | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| FE-Penn Power | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Grocery | Cooking | ROB | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| FE-Penn Power | High Efficiency Griddle (ENERGY STAR) | Efficiency code minimum griddle (70% eff) | Grocery | Cooking | Early | griddle | 11,317 | 65% | 1.4 | 12 | \$4,977 | 86% | 0.7 |
| FE-Penn Power | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Grocery | Cooking | New | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.0 |
| FE-Penn Power | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Grocery | Cooking | ROB | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.0 |
| FE-Penn Power | High Efficiency Induction Cooking | Standard Cooking | Grocery | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-Penn Power | High Efficiency Induction Cooking | Standard Cooking | Grocery | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-Penn Power | Solid-state temperature controls | No Solid State Controls | Grocery | Cooking | Existing | building | 4,592 | 3.6% | 0.04 | 12 | \$21 | 34% | 4.0 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Grocery | Cooling Central | Existing | building | 3,095 | 7.0% | 0.07 | 6 | \$23,951 | 82% | 0.0 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Grocery | Cooling Central | New | building | 3,095 | 7.0% | 0.07 | 6 | \$23,951 | 82% | 0.0 |
| FE-Penn Power | Adding window shade film | No shade film | Grocery | Cooling Central | Existing | building | 3,095 | 1.3% | 0.4 | 10 | \$38 | 12% | 6.4 |
| FE-Penn Power | Adding window shade film | No shade film | Grocery | Cooling Central | New | building | 3,095 | 1.3% | 0.4 | 10 | \$38 | 13% | 6.4 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|--|---|---------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Adding window shade screen | No shade screen | Grocery | Cooling Central | Existing | building | 3,095 | 1.1% | 0.01 | 10 | \$15 | 13% | 1.2 |
| FE-Penn Power | Adding window shade screen | No shade screen | Grocery | Cooling Central | New | building | 3,095 | 1.1% | 0.01 | 10 | \$15 | 13% | 1.2 |
| FE-Penn Power | Automated control system | Manual Controls | Grocery | Cooling Central | Existing | building | 3,095 | 17% | 0.2 | 15 | \$3,388 | 51% | 0.1 |
| FE-Penn Power | Automated control system | Manual Controls | Grocery | Cooling Central | New | building | 3,095 | 17% | 0.2 | 15 | \$3,388 | 94% | 0.1 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Grocery | Cooling Central | Existing | building | 3,095 | 9.8% | 0.10 | 15 | \$33,930 | 71% | 0.0 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Grocery | Cooling Central | New | building | 3,095 | 3.3% | 0.03 | 15 | \$32,251 | 94% | 0.0 |
| FE-Penn Power | Chiller Tuneup/Diagnostics | No tuneup | Grocery | Cooling Central | Existing | building | 3,095 | 8.0% | 0.08 | 10 | \$7,903 | 59% | 0.0 |
| FE-Penn Power | Chiller Tuneup/Diagnostics | No tuneup | Grocery | Cooling Central | New | building | 3,095 | 8.0% | 0.08 | 10 | \$7,903 | 59% | 0.0 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Grocery | Cooling Central | Existing | building | 3,095 | 1.4% | 0.04 | 15 | \$25 | 20% | 2.0 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Grocery | Cooling Central | New | building | 3,095 | 1.4% | 0.04 | 15 | \$25 | 10% | 2.0 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Grocery | Cooling Central | Existing | building | 3,095 | 7.0% | 0.07 | 15 | \$13,729 | 25% | 0.0 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Grocery | Cooling Central | New | building | 3,095 | 7.0% | 0.07 | 15 | \$13,729 | 35% | 0.0 |
| FE-Penn Power | Hi Eff HVAC System Design | No HVAC Design | Grocery | Cooling Central | New | building | 3,095 | 9.3% | 0.09 | 10 | \$897,884 | 51% | 0.0 |
| FE-Penn Power | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Grocery | Cooling Central | Early | ton | 4,330 | 24% | 0.4 | 15 | \$108,550 | 88% | 0.0 |
| FE-Penn Power | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Grocery | Cooling Central | New | ton | 3,540 | 6.7% | 0.09 | 15 | \$12,927 | 88% | 0.0 |
| FE-Penn Power | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Grocery | Cooling Central | ROB | ton | 3,540 | 6.7% | 0.09 | 15 | \$12,927 | 88% | 0.0 |
| FE-Penn Power | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Grocery | Cooling Central | Early | ton | 6,471 | 23% | 0.6 | 15 | \$140,105 | 88% | 0.0 |
| FE-Penn Power | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Grocery | Cooling Central | New | ton | 5,206 | 4.8% | 0.09 | 15 | \$9,336 | 88% | 0.0 |
| FE-Penn Power | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Grocery | Cooling Central | ROB | ton | 5,206 | 4.8% | 0.09 | 15 | \$9,336 | 88% | 0.0 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Grocery | Cooling Central | Early | ton | 52,971 | 26% | 5.0 | 15 | \$105,354 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Grocery | Cooling Central | New | ton | 46,153 | 15% | 2.5 | 15 | \$30,530 | 88% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Grocery | Cooling Central | ROB | ton | 46,153 | 15% | 2.5 | 15 | \$30,530 | 88% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Grocery | Cooling Central | Early | ton | 79,336 | 23% | 6.6 | 15 | \$154,107 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Grocery | Cooling Central | New | ton | 72,880 | 16% | 4.3 | 15 | \$27,646 | 88% | 0.3 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Grocery | Cooling Central | ROB | ton | 79,336 | 23% | 6.6 | 15 | \$27,646 | 88% | 0.5 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Grocery | Cooling Central | Early | ton | 131,762 | 23% | 10.9 | 15 | \$302,924 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Grocery | Cooling Central | New | ton | 119,254 | 14% | 6.3 | 15 | \$115,432 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Grocery | Cooling Central | ROB | ton | 131,762 | 23% | 10.9 | 15 | \$115,432 | 88% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Grocery | Cooling Central | Early | ton | 158,114 | 23% | 13.1 | 15 | \$350,154 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Grocery | Cooling Central | New | ton | 143,105 | 14% | 7.6 | 15 | \$120,406 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Grocery | Cooling Central | ROB | ton | 158,114 | 23% | 13.1 | 15 | \$120,406 | 88% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Grocery | Cooling Central | Early | ton | 35,047 | 29% | 3.8 | 15 | \$83,632 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Grocery | Cooling Central | New | ton | 27,214 | 8.9% | 0.9 | 15 | \$40,211 | 88% | 0.0 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Grocery | Cooling Central | ROB | ton | 35,047 | 29% | 3.8 | 15 | \$40,211 | 88% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Grocery | Cooling Central | Early | ton | 60,220 | 35% | 7.7 | 15 | \$132,173 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Grocery | Cooling Central | New | ton | 44,914 | 13% | 2.1 | 15 | \$39,556 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Grocery | Cooling Central | ROB | ton | 44,914 | 13% | 2.1 | 15 | \$39,556 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Grocery | Cooling Central | Early | ton | 100,542 | 39% | 14.4 | 15 | \$187,029 | 88% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Grocery | Cooling Central | New | ton | 71,685 | 15% | 3.8 | 15 | \$33,554 | 88% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Grocery | Cooling Central | ROB | ton | 100,542 | 39% | 14.4 | 15 | \$33,554 | 88% | 0.8 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Grocery | Cooling Central | Early | ton | 17,593 | 30% | 1.9 | 15 | \$32,398 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Grocery | Cooling Central | New | ton | 13,939 | 11% | 0.6 | 15 | \$7,188 | 88% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Grocery | Cooling Central | ROB | ton | 17,593 | 30% | 1.9 | 15 | \$7,188 | 88% | 0.5 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Grocery | Cooling Central | Existing | building | 3,095 | 1.1% | 0.01 | 10 | \$94,032 | 81% | 0.0 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Grocery | Cooling Central | New | building | 3,095 | 1.1% | 0.01 | 10 | \$94,032 | 81% | 0.0 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Grocery | Cooling Central | Existing | building | 3,095 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|---|---------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Grocery | Cooling Central | New | building | 3,095 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.2 |
| FE-Penn Power | Re-Commissioning (Existing Construction) | No Re-Commissioning | Grocery | Cooling Central | Existing | building | 3,095 | 16% | 0.2 | 5 | \$19,254 | 86% | 0.0 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Grocery | Cooling Central | Existing | building | 3,095 | 19% | 0.2 | 15 | \$7,224 | 26% | 0.1 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Grocery | Cooling Central | New | building | 3,095 | 0.5% | 0.01 | 15 | \$5,541 | 94% | 0.0 |
| FE-Penn Power | <65k BTU/hr 14 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Grocery | Cooling Unitary | Early | ton | 1,951 | 16% | 0.1 | 15 | \$1,545 | 29% | 0.2 |
| FE-Penn Power | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Grocery | Cooling Unitary | New | ton | 1,767 | 7.1% | 0.05 | 15 | \$339 | 29% | 0.3 |
| FE-Penn Power | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Grocery | Cooling Unitary | ROB | ton | 1,767 | 7.1% | 0.05 | 15 | \$339 | 29% | 0.3 |
| FE-Penn Power | <65k BTU/hr 15 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Grocery | Cooling Unitary | Early | ton | 1,951 | 22% | 0.2 | 15 | \$1,821 | 30% | 0.2 |
| FE-Penn Power | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Grocery | Cooling Unitary | New | ton | 1,767 | 13% | 0.10 | 15 | \$714 | 30% | 0.3 |
| FE-Penn Power | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Grocery | Cooling Unitary | ROB | ton | 1,767 | 13% | 0.10 | 15 | \$714 | 30% | 0.3 |
| FE-Penn Power | <65k BTU/hr 16 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Grocery | Cooling Unitary | Early | ton | 1,951 | 26% | 0.2 | 15 | \$2,098 | 31% | 0.2 |
| FE-Penn Power | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Grocery | Cooling Unitary | New | ton | 1,767 | 19% | 0.1 | 15 | \$1,089 | 31% | 0.2 |
| FE-Penn Power | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Grocery | Cooling Unitary | ROB | ton | 1,767 | 19% | 0.1 | 15 | \$1,089 | 31% | 0.2 |
| FE-Penn Power | >760k min 10.2 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Grocery | Cooling Unitary | Early | ton | 49,355 | 3.7% | 0.8 | 15 | \$68,066 | 56% | 0.0 |
| FE-Penn Power | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Grocery | Cooling Unitary | New | ton | 49,988 | 4.9% | 1.0 | 15 | \$6,231 | 56% | 0.3 |
| FE-Penn Power | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Grocery | Cooling Unitary | ROB | ton | 49,988 | 4.9% | 1.0 | 15 | \$6,231 | 56% | 0.3 |
| FE-Penn Power | 135-240k min 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Grocery | Cooling Unitary | Early | ton | 12,144 | 18% | 0.9 | 15 | \$18,135 | 79% | 0.1 |
| FE-Penn Power | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Grocery | Cooling Unitary | New | ton | 11,047 | 10.0% | 0.5 | 15 | \$1,948 | 79% | 0.4 |
| FE-Penn Power | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Grocery | Cooling Unitary | ROB | ton | 11,047 | 10.0% | 0.5 | 15 | \$1,948 | 79% | 0.4 |
| FE-Penn Power | 240k-760k min 11 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Grocery | Cooling Unitary | Early | ton | 32,470 | 9.0% | 1.2 | 15 | \$44,809 | 66% | 0.1 |
| FE-Penn Power | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Grocery | Cooling Unitary | New | ton | 32,551 | 9.3% | 1.3 | 15 | \$4,813 | 66% | 0.5 |
| FE-Penn Power | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Grocery | Cooling Unitary | ROB | ton | 32,551 | 9.3% | 1.3 | 15 | \$4,813 | 66% | 0.5 |
| FE-Penn Power | 65k-135k BTU/hr 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Grocery | Cooling Unitary | Early | ton | 7,159 | 17% | 0.5 | 15 | \$10,946 | 86% | 0.1 |
| FE-Penn Power | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Grocery | Cooling Unitary | New | ton | 6,380 | 6.7% | 0.2 | 15 | \$1,392 | 86% | 0.2 |
| FE-Penn Power | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Grocery | Cooling Unitary | ROB | ton | 6,380 | 6.7% | 0.2 | 15 | \$1,392 | 86% | 0.2 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Grocery | Cooling Unitary | Existing | building | 28,716 | 7.0% | 0.07 | 6 | \$23,951 | 82% | 0.0 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Grocery | Cooling Unitary | New | building | 28,716 | 7.0% | 0.07 | 6 | \$23,951 | 82% | 0.0 |
| FE-Penn Power | Adding window shade film | No shade film | Grocery | Cooling Unitary | Existing | building | 28,716 | 1.3% | 0.4 | 10 | \$349 | 12% | 1.0 |
| FE-Penn Power | Adding window shade film | No shade film | Grocery | Cooling Unitary | New | building | 28,716 | 1.3% | 0.4 | 10 | \$349 | 13% | 1.0 |
| FE-Penn Power | Adding window shade screen | No shade screen | Grocery | Cooling Unitary | Existing | building | 28,716 | 1.1% | 0.01 | 10 | \$135 | 12% | 0.8 |
| FE-Penn Power | Adding window shade screen | No shade screen | Grocery | Cooling Unitary | New | building | 28,716 | 1.1% | 0.01 | 10 | \$135 | 13% | 0.8 |
| FE-Penn Power | Automated control system | Manual Controls | Grocery | Cooling Unitary | Existing | building | 28,716 | 17% | 0.2 | 15 | \$31,437 | 51% | 0.1 |
| FE-Penn Power | Automated control system | Manual Controls | Grocery | Cooling Unitary | New | building | 28,716 | 17% | 0.2 | 15 | \$31,437 | 94% | 0.1 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Grocery | Cooling Unitary | Existing | building | 28,716 | 9.8% | 0.10 | 15 | \$33,930 | 71% | 0.0 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Grocery | Cooling Unitary | New | building | 28,716 | 3.3% | 0.03 | 15 | \$32,251 | 94% | 0.0 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Grocery | Cooling Unitary | Existing | building | 28,716 | 1.4% | 0.04 | 15 | \$228 | 20% | 0.9 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Grocery | Cooling Unitary | New | building | 28,716 | 1.4% | 0.04 | 15 | \$228 | 10% | 0.9 |
| FE-Penn Power | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Grocery | Cooling Unitary | Existing | building | 15,692 | 13% | 0.1 | 1 | \$150 | 73% | 0.8 |
| FE-Penn Power | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Grocery | Cooling Unitary | New | building | 15,692 | 13% | 0.1 | 1 | \$150 | 73% | 0.8 |
| FE-Penn Power | ECM Motors for split systems | Std Shaded Pole Motor | Grocery | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.4 |
| FE-Penn Power | ECM Motors for split systems | Std Shaded Pole Motor | Grocery | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.4 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Grocery | Cooling Unitary | Existing | building | 28,716 | 7.1% | 0.07 | 15 | \$127,376 | 25% | 0.0 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Grocery | Cooling Unitary | New | building | 28,716 | 7.1% | 0.07 | 15 | \$127,376 | 35% | 0.0 |
| FE-Penn Power | Hi Eff HVAC System Design | No HVAC Design | Grocery | Cooling Unitary | New | building | 28,716 | 9.3% | 0.09 | 10 | \$10,853 | 51% | 0.1 |
| FE-Penn Power | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Grocery | Cooling Unitary | Existing | building | 28,716 | 5.0% | 0.05 | 5 | \$225 | 59% | 1.3 |
| FE-Penn Power | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Grocery | Cooling Unitary | Existing | building | 28,716 | 0.5% | 0.05 | 5 | \$225 | 51% | 0.2 |
| FE-Penn Power | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Grocery | Cooling Unitary | New | building | 28,716 | 0.5% | 0.05 | 5 | \$135 | 51% | 0.3 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Grocery | Cooling Unitary | Existing | building | 28,716 | 1.1% | 0.01 | 10 | \$101,057 | 86% | 0.0 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Grocery | Cooling Unitary | New | building | 28,716 | 1.1% | 0.01 | 10 | \$101,057 | 86% | 0.0 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) | Grocery | Cooling Unitary | Existing | building | 28,716 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.8 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Grocery | Cooling Unitary | New | building | 28,716 | 1.7% | 0.02 | 11 | \$146 | 49% | 1.3 |
| FE-Penn Power | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Grocery | Cooling Unitary | Early | unit | 199 | 19% | 0.01 | 15 | \$849 | 85% | 0.0 |
| FE-Penn Power | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Grocery | Cooling Unitary | New | unit | 201 | 20% | 0.01 | 15 | \$356 | 85% | 0.1 |
| FE-Penn Power | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Grocery | Cooling Unitary | ROB | unit | 201 | 20% | 0.01 | 15 | \$356 | 85% | 0.1 |
| FE-Penn Power | Re-Commissioning (Existing Construction) | No Re-Commissioning | Grocery | Cooling Unitary | Existing | building | 28,716 | 16% | 0.2 | 5 | \$19,254 | 86% | 0.0 |
| FE-Penn Power | Room AC (w/ louvered sides) | Exisiting efficiency Room AC in Pennsylvania (2000 Federal Standards) | Grocery | Cooling Unitary | Early | ton | 921 | 13% | 0.05 | 9 | \$348 | 82% | 0.2 |
| FE-Penn Power | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Grocery | Cooling Unitary | New | ton | 835 | 4.5% | 0.01 | 9 | \$17 | 82% | 1.1 |
| FE-Penn Power | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Grocery | Cooling Unitary | ROB | ton | 835 | 4.5% | 0.01 | 9 | \$17 | 82% | 1.1 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Grocery | Cooling Unitary | Existing | building | 28,716 | 19% | 0.2 | 15 | \$7,224 | 26% | 0.4 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|--|---|---------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Grocery | Cooling Unitary | New | building | 28,716 | 0.5% | 0.01 | 15 | \$5,541 | 94% | 0.0 |
| FE-Penn Power | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Grocery | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 0.9 |
| FE-Penn Power | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Grocery | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.0 |
| FE-Penn Power | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Grocery | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.0 |
| FE-Penn Power | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Grocery | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 0% | 0.1 |
| FE-Penn Power | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Grocery | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-Penn Power | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Grocery | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-Penn Power | LED exterior lighting | 250 Watt Incandescent | Grocery | Ext. Lighting | ROB | measure | 1,456 | 83% | 0.2 | 15 | \$104 | 89% | 6.4 |
| FE-Penn Power | LED exterior lighting | 250 Watt Incandescent | Grocery | Ext. Lighting | ROB | measure | 1,456 | 83% | 0.2 | 15 | \$104 | 89% | 6.4 |
| FE-Penn Power | LED exterior lighting | 250 Watt Incandescent | Grocery | Ext. Lighting | ROB | measure | 1,456 | 83% | 0.2 | 15 | \$104 | 89% | 6.4 |
| FE-Penn Power | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Grocery | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 75% | 0.2 |
| FE-Penn Power | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Grocery | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 75% | 0.2 |
| FE-Penn Power | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Grocery | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.3 |
| FE-Penn Power | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Grocery | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 1.7 |
| FE-Penn Power | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Grocery | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.3 |
| FE-Penn Power | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Grocery | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 1.7 |
| FE-Penn Power | Photocell Controls (Outdoor) | Lighting w/ No Controls | Grocery | Ext. Lighting | Existing | building | 1,226 | 28% | 0.3 | 8 | \$1,459 | 88% | 0.2 |
| FE-Penn Power | Photocell Controls (Outdoor) | Lighting w/ No Controls | Grocery | Ext. Lighting | New | building | 1,226 | 28% | 0.3 | 8 | \$1,459 | 0% | 0.2 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Grocery | Heat Pump | Existing | building | 2,953 | 6.9% | 0.07 | 6 | \$23,951 | 82% | 0.0 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Grocery | Heat Pump | New | building | 2,953 | 6.9% | 0.07 | 6 | \$23,951 | 82% | 0.0 |
| FE-Penn Power | Adding window shade film | No shade film | Grocery | Heat Pump | Existing | building | 2,953 | 3.9% | 0.4 | 10 | \$36 | 12% | 7.3 |
| FE-Penn Power | Adding window shade film | No shade film | Grocery | Heat Pump | New | building | 2,953 | 3.9% | 0.4 | 10 | \$36 | 12% | 7.3 |
| FE-Penn Power | Adding window shade screen | No shade screen | Grocery | Heat Pump | Existing | building | 2,953 | 0.3% | 0.01 | 10 | \$4.6 | 12% | 2.0 |
| FE-Penn Power | Adding window shade screen | No shade screen | Grocery | Heat Pump | New | building | 2,953 | 0.3% | 0.01 | 10 | \$4.6 | 12% | 2.0 |
| FE-Penn Power | Automated control system | Manual Controls | Grocery | Heat Pump | Existing | building | 2,953 | 17% | 0.2 | 15 | \$3,233 | 51% | 0.1 |
| FE-Penn Power | Automated control system | Manual Controls | Grocery | Heat Pump | New | building | 2,953 | 17% | 0.2 | 15 | \$3,233 | 94% | 0.1 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Grocery | Heat Pump | Existing | building | 2,953 | 9.8% | 0.10 | 15 | \$33,930 | 71% | 0.0 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Grocery | Heat Pump | New | building | 2,953 | 3.3% | 0.03 | 15 | \$32,251 | 94% | 0.0 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Grocery | Heat Pump | Existing | building | 2,953 | 4.0% | 0.04 | 15 | \$23 | 12% | 3.3 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Grocery | Heat Pump | New | building | 2,953 | 4.0% | 0.04 | 15 | \$23 | 6% | 3.3 |
| FE-Penn Power | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Grocery | Heat Pump | Early | heat pump | 1,589 | 13% | 0.02 | 15 | \$4,070 | 83% | 0.0 |
| FE-Penn Power | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Grocery | Heat Pump | New | heat pump | 1,506 | 7.7% | 0.01 | 15 | \$1,097 | 83% | 0.0 |
| FE-Penn Power | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Grocery | Heat Pump | ROB | heat pump | 1,506 | 7.7% | 0.01 | 15 | \$1,097 | 83% | 0.0 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Grocery | Heat Pump | Existing | building | 2,953 | 7.0% | 0.07 | 15 | \$13,100 | 25% | 0.0 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Grocery | Heat Pump | New | building | 2,953 | 7.0% | 0.07 | 15 | \$13,100 | 35% | 0.0 |
| FE-Penn Power | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Grocery | Heat Pump | Early | heat pump | 16,323 | 17% | 0.2 | 15 | \$91,117 | 19% | 0.0 |
| FE-Penn Power | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Grocery | Heat Pump | New | heat pump | 15,658 | 14% | 0.2 | 15 | \$33,927 | 19% | 0.0 |
| FE-Penn Power | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Grocery | Heat Pump | ROB | heat pump | 15,658 | 14% | 0.2 | 15 | \$33,927 | 19% | 0.0 |
| FE-Penn Power | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Grocery | Heat Pump | Early | heat pump | 16,323 | 17% | 0.2 | 15 | \$58,356 | 19% | 0.0 |
| FE-Penn Power | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Grocery | Heat Pump | New | heat pump | 15,658 | 14% | 0.2 | 15 | \$1,167 | 19% | 0.9 |
| FE-Penn Power | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Grocery | Heat Pump | ROB | heat pump | 15,658 | 14% | 0.2 | 15 | \$1,167 | 19% | 0.9 |
| FE-Penn Power | Hi Eff HVAC System Design | No HVAC Design | Grocery | Heat Pump | New | building | 2,953 | 9.3% | 0.09 | 10 | \$897,884 | 51% | 0.0 |
| FE-Penn Power | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Grocery | Heat Pump | Early | heat pump | 4,183 | 17% | 0.06 | 12 | \$4,298 | 81% | 0.1 |
| FE-Penn Power | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Grocery | Heat Pump | Early | heat pump | 4,183 | 25% | 0.09 | 12 | \$5,883 | 81% | 0.1 |
| FE-Penn Power | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Grocery | Heat Pump | New | heat pump | 3,967 | 13% | 0.04 | 12 | \$852 | 81% | 0.2 |
| FE-Penn Power | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Grocery | Heat Pump | New | heat pump | 3,967 | 21% | 0.07 | 12 | \$2,437 | 81% | 0.1 |
| FE-Penn Power | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Grocery | Heat Pump | ROB | heat pump | 3,967 | 13% | 0.04 | 12 | \$852 | 81% | 0.2 |
| FE-Penn Power | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Grocery | Heat Pump | ROB | heat pump | 3,967 | 21% | 0.07 | 12 | \$2,437 | 81% | 0.1 |
| FE-Penn Power | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Grocery | Heat Pump | Existing | building | 2,953 | 5.0% | 0.01 | 5 | \$90 | 51% | 0.3 |
| FE-Penn Power | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Grocery | Heat Pump | New | building | 2,953 | 5.0% | 0.01 | 5 | \$90 | 51% | 0.3 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Grocery | Heat Pump | Existing | building | 2,953 | 1.1% | 0.01 | 10 | \$89,973 | 81% | 0.0 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Grocery | Heat Pump | New | building | 2,953 | 1.1% | 0.01 | 10 | \$89,973 | 81% | 0.0 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Grocery | Heat Pump | Existing | building | 2,953 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.1 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Grocery | Heat Pump | New | building | 2,953 | 2.1% | 0.02 | 11 | \$146 | 49% | 0.2 |
| FE-Penn Power | Re-Commissioning (Existing Construction) | No Re-Commissioning | Grocery | Heat Pump | Existing | building | 2,953 | 16% | 0.2 | 5 | \$19,254 | 86% | 0.0 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Grocery | Heat Pump | Existing | building | 2,953 | 19% | 0.2 | 15 | \$7,224 | 26% | 0.1 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Grocery | Heat Pump | New | building | 2,953 | 0.5% | 0.01 | 15 | \$5,541 | 94% | 0.0 |
| FE-Penn Power | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Grocery | Heat Pump | Early | heat pump | 6,633 | 33% | 0.2 | 15 | \$35,347 | 28% | 0.0 |
| FE-Penn Power | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Grocery | Heat Pump | New | heat pump | 6,255 | 29% | 0.2 | 15 | \$15,739 | 28% | 0.1 |
| FE-Penn Power | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Grocery | Heat Pump | ROB | heat pump | 6,255 | 29% | 0.2 | 15 | \$15,739 | 28% | 0.1 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Grocery | High Bay Lighting | Early | Fixture | 1,363 | 9.6% | 0.02 | 13 | \$850 | 39% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|---|---------|-------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Grocery | High Bay Lighting | Early | Fixture | 1,362 | 9.5% | 0.02 | 13 | \$850 | 28% | 0.1 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Grocery | High Bay Lighting | Early | Fixture | 2,102 | 41% | 0.1 | 13 | \$850 | 36% | 0.5 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Grocery | High Bay Lighting | New | Fixture | 1,036 | 9.6% | 0.02 | 13 | \$372 | 39% | 0.1 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Grocery | High Bay Lighting | New | Fixture | 964 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Grocery | High Bay Lighting | New | Fixture | 1,597 | 41% | 0.1 | 13 | \$397 | 36% | 0.8 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Grocery | High Bay Lighting | ROB | Fixture | 1,363 | 9.6% | 0.02 | 13 | \$372 | 39% | 0.2 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Grocery | High Bay Lighting | ROB | Fixture | 1,268 | 2.9% | 0.01 | 13 | \$338 | 28% | 0.1 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Grocery | High Bay Lighting | ROB | Fixture | 2,102 | 41% | 0.1 | 13 | \$397 | 36% | 1.1 |
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Grocery | High Bay Lighting | Early | Fixture | 2,645 | 19% | 0.09 | 13 | \$851 | 38% | 0.3 |
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Grocery | High Bay Lighting | Early | Fixture | 2,678 | 20% | 0.09 | 13 | \$851 | 38% | 0.3 |
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | Early | Fixture | 7,791 | 73% | 1.0 | 13 | \$851 | 38% | 3.4 |
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Grocery | High Bay Lighting | New | Fixture | 2,010 | 19% | 0.07 | 13 | \$372 | 38% | 0.5 |
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | New | Fixture | 5,921 | 73% | 0.7 | 13 | \$383 | 38% | 5.7 |
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Grocery | High Bay Lighting | ROB | Fixture | 2,645 | 19% | 0.09 | 13 | \$372 | 38% | 0.7 |
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | ROB | Fixture | 7,791 | 73% | 1.0 | 13 | \$383 | 38% | 7.5 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Grocery | High Bay Lighting | Early | Fixture | 2,645 | 25% | 0.1 | 13 | \$554 | 29% | 0.6 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Grocery | High Bay Lighting | Early | Fixture | 2,597 | 23% | 0.1 | 13 | \$554 | 28% | 0.6 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | Early | Fixture | 7,791 | 74% | 1.0 | 13 | \$554 | 36% | 5.3 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Grocery | High Bay Lighting | New | Fixture | 2,010 | 25% | 0.09 | 13 | \$75 | 29% | 3.4 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | New | Fixture | 5,921 | 74% | 0.8 | 13 | \$86 | 36% | 26.2 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Grocery | High Bay Lighting | ROB | Fixture | 2,645 | 25% | 0.1 | 13 | \$75 | 29% | 4.4 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | ROB | Fixture | 7,791 | 74% | 1.0 | 13 | \$86 | 36% | 34.5 |
| FE-Penn Power | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Grocery | High Bay Lighting | Early | Fixture | 690 | 0.2% | 0.00 | 13 | \$835 | 38% | 0.0 |
| FE-Penn Power | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Grocery | High Bay Lighting | Early | Fixture | 1,486 | 54% | 0.1 | 13 | \$835 | 38% | 0.5 |
| FE-Penn Power | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Grocery | High Bay Lighting | New | Fixture | 1,129 | 54% | 0.1 | 13 | \$382 | 38% | 0.8 |
| FE-Penn Power | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Grocery | High Bay Lighting | ROB | Fixture | 1,486 | 54% | 0.1 | 13 | \$382 | 38% | 1.1 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Grocery | High Bay Lighting | Early | Fixture | 3,370 | 18% | 0.1 | 13 | \$487 | 25% | 0.6 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Grocery | High Bay Lighting | Early | Fixture | 3,524 | 22% | 0.1 | 13 | \$487 | 28% | 0.8 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | Early | Fixture | 7,791 | 65% | 0.9 | 13 | \$487 | 36% | 5.3 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Grocery | High Bay Lighting | New | Fixture | 2,561 | 18% | 0.08 | 13 | \$16 | 25% | 14.7 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | New | Fixture | 5,921 | 65% | 0.7 | 13 | \$18 | 36% | 106.1 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Grocery | High Bay Lighting | ROB | Fixture | 3,370 | 18% | 0.1 | 13 | \$16 | 25% | 19.3 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | ROB | Fixture | 7,791 | 65% | 0.9 | 13 | \$18 | 36% | 139.5 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Grocery | High Bay Lighting | Early | Fixture | 3,370 | 1.5% | 0.01 | 13 | \$557 | 19% | 0.0 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Grocery | High Bay Lighting | Early | Fixture | 3,469 | 4.3% | 0.03 | 13 | \$557 | 19% | 0.1 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | Early | Fixture | 7,791 | 57% | 0.8 | 13 | \$557 | 19% | 4.1 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Grocery | High Bay Lighting | New | Fixture | 2,561 | 1.5% | 0.01 | 13 | \$86 | 19% | 0.2 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | New | Fixture | 5,921 | 57% | 0.6 | 13 | \$88 | 19% | 19.6 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Grocery | High Bay Lighting | ROB | Fixture | 3,370 | 1.5% | 0.01 | 13 | \$86 | 19% | 0.3 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | ROB | Fixture | 7,791 | 57% | 0.8 | 13 | \$88 | 19% | 25.8 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Grocery | High Bay Lighting | Early | Fixture | 1,431 | 29% | 0.05 | 13 | \$492 | 71% | 0.4 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Grocery | High Bay Lighting | Early | Fixture | 1,197 | 15% | 0.02 | 13 | \$492 | 95% | 0.2 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Grocery | High Bay Lighting | Early | Fixture | 1,778 | 43% | 0.09 | 13 | \$492 | 95% | 0.7 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Grocery | High Bay Lighting | Early | Fixture | 1,648 | 38% | 0.08 | 13 | \$492 | 95% | 0.6 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Grocery | High Bay Lighting | New | Fixture | 909 | 15% | 0.02 | 13 | \$25 | 95% | 2.6 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Grocery | High Bay Lighting | New | Fixture | 1,351 | 43% | 0.07 | 13 | \$51 | 95% | 5.3 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Grocery | High Bay Lighting | ROB | Fixture | 1,197 | 15% | 0.02 | 13 | \$25 | 95% | 3.4 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Grocery | High Bay Lighting | ROB | Fixture | 1,778 | 43% | 0.09 | 13 | \$51 | 95% | 7.0 |
| FE-Penn Power | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Grocery | High Bay Lighting | Early | lamp | 155 | 16% | 0.00 | 7 | \$7.7 | 99% | 1.1 |
| FE-Penn Power | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Grocery | High Bay Lighting | New | lamp | 92 | 13% | 0.00 | 7 | \$1.6 | 91% | 2.4 |
| FE-Penn Power | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Grocery | High Bay Lighting | ROB | lamp | 149 | 13% | 0.00 | 7 | \$1.6 | 91% | 3.9 |
| FE-Penn Power | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Grocery | High Bay Lighting | Early | Fixture | 7,972 | 23% | 0.3 | 13 | \$613 | 5% | 1.5 |
| FE-Penn Power | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Grocery | High Bay Lighting | Early | Fixture | 6,263 | 1.6% | 0.02 | 13 | \$613 | 28% | 0.1 |
| FE-Penn Power | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | Early | Fixture | 15,582 | 60% | 1.6 | 13 | \$613 | 18% | 7.8 |
| FE-Penn Power | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Grocery | High Bay Lighting | New | Fixture | 6,059 | 23% | 0.2 | 13 | \$96 | 5% | 7.3 |
| FE-Penn Power | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Grocery | High Bay Lighting | ROB | Fixture | 7,972 | 23% | 0.3 | 13 | \$96 | 5% | 9.6 |
| FE-Penn Power | Auto Off Time Switch | Lighting w/ No Controls | Grocery | High Bay Lighting | Existing | building | 5,286 | 24% | 0.2 | 8 | \$296 | 13% | 1.6 |
| FE-Penn Power | Auto Off Time Switch | Lighting w/ No Controls | Grocery | High Bay Lighting | New | building | 5,286 | 6.9% | 0.07 | 8 | \$296 | 0% | 0.5 |
| FE-Penn Power | Central Lighting Control System | Lighting w/ No Controls | Grocery | High Bay Lighting | Existing | building | 5,286 | 38% | 0.4 | 8 | \$296 | 13% | 2.6 |
| FE-Penn Power | Central Lighting Control System | Lighting w/ No Controls | Grocery | High Bay Lighting | New | building | 5,286 | 14% | 0.1 | 8 | \$296 | 13% | 0.9 |
| FE-Penn Power | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Grocery | High Bay Lighting | New | building | 5,286 | 10.0% | 0.1 | 15 | \$69,961 | 32% | 0.0 |
| FE-Penn Power | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Grocery | High Bay Lighting | New | building | 5,286 | 15% | 0.2 | 15 | \$174,902 | 32% | 0.0 |
| FE-Penn Power | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Grocery | High Bay Lighting | New | building | 5,286 | 30% | 0.3 | 15 | \$250,693 | 32% | 0.0 |
| FE-Penn Power | Indoor Daylight Sensors | Lighting w/ No Controls | Grocery | High Bay Lighting | Existing | building | 5,286 | 28% | 0.3 | 8 | \$1,459 | 13% | 0.4 |
| FE-Penn Power | Indoor Daylight Sensors | Lighting w/ No Controls | Grocery | High Bay Lighting | New | building | 5,286 | 4.0% | 0.04 | 8 | \$1,459 | 0% | 0.1 |
| FE-Penn Power | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Grocery | High Bay Lighting | Early | Fixture | 7,972 | 92% | 1.3 | 13 | \$1,916 | 95% | 2.0 |
| FE-Penn Power | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | Early | Fixture | 15,582 | 96% | 2.6 | 13 | \$1,916 | 95% | 4.0 |
| FE-Penn Power | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Grocery | High Bay Lighting | New | Fixture | 6,059 | 92% | 1.0 | 13 | \$1,468 | 95% | 1.9 |
| FE-Penn Power | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | New | Fixture | 11,842 | 96% | 2.0 | 13 | \$1,149 | 95% | 5.0 |
| FE-Penn Power | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Grocery | High Bay Lighting | ROB | Fixture | 7,972 | 92% | 1.3 | 13 | \$1,468 | 95% | 2.6 |
| FE-Penn Power | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | ROB | Fixture | 15,582 | 96% | 2.6 | 13 | \$1,149 | 95% | 6.6 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Grocery | High Bay Lighting | Early | Fixture | 2,645 | 67% | 0.3 | 13 | \$960 | 95% | 0.9 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Grocery | High Bay Lighting | Early | Fixture | 7,791 | 89% | 1.2 | 13 | \$960 | 95% | 3.7 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Grocery | High Bay Lighting | Early | Fixture | 2,138 | 59% | 0.2 | 13 | \$960 | 95% | 0.7 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|--|---------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Grocery | High Bay Lighting | New | Fixture | 2,010 | 67% | 0.2 | 13 | \$480 | 95% | 1.4 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Grocery | High Bay Lighting | New | Fixture | 5,921 | 89% | 0.9 | 13 | \$491 | 95% | 5.4 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Grocery | High Bay Lighting | New | Fixture | 1,625 | 59% | 0.2 | 13 | \$406 | 95% | 1.2 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Grocery | High Bay Lighting | ROB | Fixture | 2,645 | 67% | 0.3 | 13 | \$480 | 95% | 1.9 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Grocery | High Bay Lighting | ROB | Fixture | 7,791 | 89% | 1.2 | 13 | \$491 | 95% | 7.2 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Grocery | High Bay Lighting | ROB | Fixture | 2,138 | 59% | 0.2 | 13 | \$406 | 95% | 1.6 |
| FE-Penn Power | Occupancy Sensor | Lighting w/ No Controls | Grocery | High Bay Lighting | Existing | building | 5,286 | 24% | 0.2 | 8 | \$447 | 12% | 1.1 |
| FE-Penn Power | Occupancy Sensor | Lighting w/ No Controls | Grocery | High Bay Lighting | New | building | 5,286 | 6.9% | 0.07 | 8 | \$447 | 0% | 0.3 |
| FE-Penn Power | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Grocery | High Bay Lighting | Existing | building | 5,286 | 28% | 0.3 | 8 | \$1,459 | 12% | 0.4 |
| FE-Penn Power | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Grocery | High Bay Lighting | New | building | 5,286 | 4.0% | 0.04 | 8 | \$1,459 | 0% | 0.1 |
| FE-Penn Power | Time Clock Control | Lighting w/ No Controls | Grocery | High Bay Lighting | Existing | building | 5,286 | 28% | 0.3 | 8 | \$296 | 13% | 1.9 |
| FE-Penn Power | Time Clock Control | Lighting w/ No Controls | Grocery | High Bay Lighting | New | building | 5,286 | 4.0% | 0.04 | 8 | \$296 | 0% | 0.3 |
| FE-Penn Power | Auto Off Time Switch | Lighting w/ No Controls | Grocery | Lin. Fluor. Lighting | Existing | building | 36,543 | 24% | 0.2 | 8 | \$296 | 13% | 8.6 |
| FE-Penn Power | Auto Off Time Switch | Lighting w/ No Controls | Grocery | Lin. Fluor. Lighting | New | building | 36,543 | 7.0% | 0.07 | 8 | \$296 | 0% | 2.5 |
| FE-Penn Power | Central Lighting Control System | Lighting w/ No Controls | Grocery | Lin. Fluor. Lighting | Existing | building | 36,543 | 38% | 0.4 | 8 | \$296 | 12% | 13.6 |
| FE-Penn Power | Central Lighting Control System | Lighting w/ No Controls | Grocery | Lin. Fluor. Lighting | New | building | 36,543 | 14% | 0.1 | 8 | \$296 | 12% | 5.0 |
| FE-Penn Power | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Grocery | Lin. Fluor. Lighting | New | building | 36,543 | 10% | 0.1 | 15 | \$69,961 | 32% | 0.0 |
| FE-Penn Power | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Grocery | Lin. Fluor. Lighting | New | building | 36,543 | 15% | 0.2 | 15 | \$174,902 | 32% | 0.0 |
| FE-Penn Power | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Grocery | Lin. Fluor. Lighting | New | building | 36,543 | 30% | 0.3 | 15 | \$250,693 | 32% | 0.0 |
| FE-Penn Power | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Grocery | Lin. Fluor. Lighting | Early | Lamp | 312 | 38% | 0.02 | 7 | \$7.3 | 94% | 5.3 |
| FE-Penn Power | Indoor Daylight Sensors | Lighting w/ No Controls | Grocery | Lin. Fluor. Lighting | Existing | building | 36,543 | 28% | 0.3 | 8 | \$1,459 | 13% | 2.0 |
| FE-Penn Power | Indoor Daylight Sensors | Lighting w/ No Controls | Grocery | Lin. Fluor. Lighting | New | building | 36,543 | 4.1% | 0.04 | 8 | \$1,459 | 0% | 0.3 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | Early | Lamp | 165 | 19% | 0.01 | 8 | \$35 | 94% | 0.3 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 40W T12 Lamp, Magnetic Ballast | Grocery | Lin. Fluor. Lighting | Early | Lamp | 363 | 63% | 0.04 | 8 | \$35 | 94% | 2.4 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | Early | Lamp | 204 | 34% | 0.01 | 8 | \$35 | 94% | 0.7 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | Early | Lamp | 197 | 32% | 0.01 | 8 | \$35 | 94% | 0.7 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | New | Lamp | 126 | 19% | 0.00 | 8 | \$28 | 94% | 0.3 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | New | Lamp | 150 | 32% | 0.01 | 8 | \$29 | 94% | 0.6 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | New | Lamp | 155 | 34% | 0.01 | 8 | \$22 | 94% | 0.9 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | New | Lamp | 150 | 32% | 0.01 | 8 | \$29 | 94% | 0.6 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | ROB | Lamp | 165 | 19% | 0.01 | 8 | \$28 | 94% | 0.4 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | ROB | Lamp | 197 | 32% | 0.01 | 8 | \$29 | 94% | 0.8 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | ROB | Lamp | 204 | 34% | 0.01 | 8 | \$22 | 94% | 1.2 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | ROB | Lamp | 197 | 32% | 0.01 | 8 | \$29 | 94% | 0.8 |
| FE-Penn Power | Occupancy Sensor | Lighting w/ No Controls | Grocery | Lin. Fluor. Lighting | Existing | building | 36,543 | 24% | 0.2 | 8 | \$447 | 13% | 5.7 |
| FE-Penn Power | Occupancy Sensor | Lighting w/ No Controls | Grocery | Lin. Fluor. Lighting | New | building | 36,543 | 7.0% | 0.07 | 8 | \$447 | 0% | 1.7 |
| FE-Penn Power | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Grocery | Lin. Fluor. Lighting | Existing | building | 36,543 | 28% | 0.3 | 8 | \$1,459 | 12% | 2.0 |
| FE-Penn Power | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Grocery | Lin. Fluor. Lighting | New | building | 36,543 | 4.1% | 0.04 | 8 | \$1,459 | 0% | 0.3 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 40W T12 w/ Magnetic Ballast | Grocery | Lin. Fluor. Lighting | Early | Lamp | 312 | 54% | 0.03 | 7 | \$9.1 | 94% | 6.1 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | Early | Lamp | 200 | 28% | 0.01 | 7 | \$9.1 | 24% | 2.0 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | Early | Lamp | 194 | 26% | 0.01 | 7 | \$9.1 | 94% | 1.8 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | New | Lamp | 147 | 26% | 0.01 | 7 | \$2.5 | 94% | 4.9 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | New | Lamp | 147 | 26% | 0.01 | 7 | \$2.5 | 94% | 4.9 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | New | Lamp | 152 | 28% | 0.01 | 7 | \$2.5 | 24% | 5.5 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | New | Lamp | 147 | 26% | 0.01 | 7 | \$2.5 | 94% | 4.9 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | ROB | Lamp | 194 | 26% | 0.01 | 7 | \$2.5 | 94% | 6.5 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | ROB | Lamp | 194 | 26% | 0.01 | 7 | \$2.5 | 94% | 6.5 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | ROB | Lamp | 200 | 28% | 0.01 | 7 | \$2.5 | 24% | 7.3 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | ROB | Lamp | 194 | 26% | 0.01 | 7 | \$2.5 | 94% | 6.5 |
| FE-Penn Power | T8 Lamp (any length) Electronic Ballast | Standard T12 lamp (any length) | Grocery | Lin. Fluor. Lighting | Early | Lamp | 367 | 42% | 0.02 | 7 | \$14 | 94% | 3.6 |
| FE-Penn Power | Time Clock Control | Lighting w/ No Controls | Grocery | Lin. Fluor. Lighting | Existing | building | 36,543 | 28% | 0.3 | 8 | \$296 | 14% | 10.1 |
| FE-Penn Power | Time Clock Control | Lighting w/ No Controls | Grocery | Lin. Fluor. Lighting | New | building | 36,543 | 4.1% | 0.04 | 8 | \$296 | 0% | 1.5 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | Early | motor | 4,535 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | Early | motor | 4,535 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | Early | motor | 4,535 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | Early | motor | 4,535 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | Early | motor | 4,535 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | New | motor | 4,396 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | New | motor | 4,396 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | New | motor | 4,396 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | New | motor | 4,396 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | New | motor | 4,396 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | ROB | motor | 4,396 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|--|---------|---------------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Grocery | Motors | ROB | motor | 29,288 | 57% | 0.00 | 15 | \$2,843 | 86% | 2.4 |
| FE-Penn Power | VFD on HVAC Fan | Motor w/out VFD | Grocery | Motors | Early | motor | 15,992 | 70% | 3.4 | 15 | \$2,903 | 86% | 2.5 |
| FE-Penn Power | VFD on HVAC Fan | Motor w/out VFD | Grocery | Motors | New | motor | 15,693 | 72% | 3.3 | 15 | \$2,843 | 86% | 2.5 |
| FE-Penn Power | VFD on HVAC Fan | Motor w/out VFD | Grocery | Motors | ROB | motor | 15,693 | 72% | 3.3 | 15 | \$2,843 | 86% | 2.5 |
| FE-Penn Power | Variable Speed Drives on Process Equipment | Constant speed control | Grocery | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 9.2 |
| FE-Penn Power | Variable Speed Drives on Process Equipment | Constant speed control | Grocery | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 9.2 |
| FE-Penn Power | Auto Off Time Switch | Lighting w/ No Controls | Grocery | Other Int. Lighting | Existing | building | 11,793 | 24% | 0.2 | 8 | \$296 | 13% | 3.1 |
| FE-Penn Power | Auto Off Time Switch | Lighting w/ No Controls | Grocery | Other Int. Lighting | New | building | 11,793 | 7.0% | 0.07 | 8 | \$296 | 0% | 0.9 |
| FE-Penn Power | Central Lighting Control System | Lighting w/ No Controls | Grocery | Other Int. Lighting | Existing | building | 11,793 | 38% | 0.4 | 8 | \$296 | 13% | 4.9 |
| FE-Penn Power | Central Lighting Control System | Lighting w/ No Controls | Grocery | Other Int. Lighting | New | building | 11,793 | 14% | 0.1 | 8 | \$296 | 13% | 1.8 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 40W Incandescent Bulb | Grocery | Other Int. Lighting | Early | lamp | 382 | 87% | 0.06 | 4 | \$30 | 14% | 2.4 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Grocery | Other Int. Lighting | Early | lamp | 274 | 81% | 0.04 | 4 | \$30 | 11% | 1.6 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Grocery | Other Int. Lighting | New | lamp | 208 | 81% | 0.03 | 4 | \$21 | 14% | 1.7 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Grocery | Other Int. Lighting | New | lamp | 208 | 81% | 0.03 | 4 | \$23 | 14% | 1.6 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Grocery | Other Int. Lighting | New | lamp | 208 | 81% | 0.03 | 4 | \$22 | 11% | 1.6 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Grocery | Other Int. Lighting | ROB | lamp | 274 | 81% | 0.04 | 4 | \$21 | 14% | 2.2 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Grocery | Other Int. Lighting | ROB | lamp | 274 | 81% | 0.04 | 4 | \$23 | 14% | 2.1 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Grocery | Other Int. Lighting | ROB | lamp | 274 | 81% | 0.04 | 4 | \$22 | 11% | 2.1 |
| FE-Penn Power | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Grocery | Other Int. Lighting | Early | lamp | 382 | 75% | 0.05 | 2 | \$73 | 24% | 0.5 |
| FE-Penn Power | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Grocery | Other Int. Lighting | New | fixture | 416 | 65% | 0.05 | 13 | \$29 | 28% | 4.8 |
| FE-Penn Power | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Grocery | Other Int. Lighting | New | lamp | 208 | 65% | 0.02 | 2 | \$29 | 28% | 0.5 |
| FE-Penn Power | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Grocery | Other Int. Lighting | ROB | fixture | 547 | 65% | 0.06 | 13 | \$29 | 24% | 6.3 |
| FE-Penn Power | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Grocery | Other Int. Lighting | ROB | lamp | 274 | 65% | 0.03 | 2 | \$29 | 24% | 0.7 |
| FE-Penn Power | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Grocery | Other Int. Lighting | Early | lamp | 382 | 75% | 0.05 | 2 | \$3.2 | 24% | 10.4 |
| FE-Penn Power | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Grocery | Other Int. Lighting | New | lamp | 208 | 65% | 0.02 | 2 | \$1.8 | 24% | 8.8 |
| FE-Penn Power | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Grocery | Other Int. Lighting | ROB | lamp | 274 | 65% | 0.03 | 2 | \$1.8 | 24% | 11.6 |
| FE-Penn Power | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Grocery | Other Int. Lighting | ROB | lamp | 274 | 65% | 0.03 | 2 | \$1.8 | 24% | 11.6 |
| FE-Penn Power | Exit Sign Retrofit: CFL replacing Incandescent | One 23W Single Sided Incandescent Exit Sign | Grocery | Other Int. Lighting | Early | exit sign | 134 | 42% | 0.01 | 15 | \$48 | 22% | 0.6 |
| FE-Penn Power | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Grocery | Other Int. Lighting | New | building | 11,793 | 10% | 0.1 | 15 | \$69,961 | 32% | 0.0 |
| FE-Penn Power | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Grocery | Other Int. Lighting | New | building | 11,793 | 15% | 0.2 | 15 | \$174,902 | 32% | 0.0 |
| FE-Penn Power | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Grocery | Other Int. Lighting | New | building | 11,793 | 30% | 0.3 | 15 | \$250,693 | 32% | 0.0 |
| FE-Penn Power | Indoor Daylight Sensors | Lighting w/ No Controls | Grocery | Other Int. Lighting | Existing | building | 11,793 | 28% | 0.3 | 8 | \$1,459 | 13% | 0.7 |
| FE-Penn Power | Indoor Daylight Sensors | Lighting w/ No Controls | Grocery | Other Int. Lighting | New | building | 11,793 | 4.1% | 0.04 | 8 | \$1,459 | 0% | 0.1 |
| FE-Penn Power | LED Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Grocery | Other Int. Lighting | Early | sign | 153 | 87% | 0.02 | 15 | \$48 | 16% | 1.5 |
| FE-Penn Power | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Grocery | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 1.6 |
| FE-Penn Power | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Grocery | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 1.6 |
| FE-Penn Power | LED Task Lighting/Screw-In | 1 15W CFL bulb | Grocery | Other Int. Lighting | Early | lamp | 115 | 33% | 0.01 | 3 | \$9.6 | 24% | 0.6 |
| FE-Penn Power | LED Task Lighting/Screw-In | 1 60W Incandescent Bulb | Grocery | Other Int. Lighting | Early | lamp | 460 | 83% | 0.06 | 3 | \$9.6 | 24% | 6.4 |
| FE-Penn Power | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Grocery | Other Int. Lighting | New | lamp | 251 | 77% | 0.03 | 3 | \$7.9 | 24% | 3.9 |
| FE-Penn Power | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Grocery | Other Int. Lighting | New | lamp | 251 | 77% | 0.03 | 3 | \$7.9 | 24% | 3.9 |
| FE-Penn Power | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Grocery | Other Int. Lighting | ROB | lamp | 330 | 77% | 0.04 | 3 | \$7.9 | 24% | 5.1 |
| FE-Penn Power | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Grocery | Other Int. Lighting | ROB | lamp | 330 | 77% | 0.04 | 3 | \$7.9 | 24% | 5.1 |
| FE-Penn Power | Occupancy Sensor | Lighting w/ No Controls | Grocery | Other Int. Lighting | Existing | building | 11,793 | 24% | 0.2 | 8 | \$447 | 12% | 2.0 |
| FE-Penn Power | Occupancy Sensor | Lighting w/ No Controls | Grocery | Other Int. Lighting | New | building | 11,793 | 7.0% | 0.07 | 8 | \$447 | 0% | 0.6 |
| FE-Penn Power | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Grocery | Other Int. Lighting | Existing | building | 11,793 | 28% | 0.3 | 8 | \$1,459 | 12% | 0.7 |
| FE-Penn Power | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Grocery | Other Int. Lighting | New | building | 11,793 | 4.1% | 0.04 | 8 | \$1,459 | 0% | 0.1 |
| FE-Penn Power | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Grocery | Other Int. Lighting | Early | exit sign | 134 | 100% | 0.02 | 15 | \$173 | 26% | 0.4 |
| FE-Penn Power | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Grocery | Other Int. Lighting | New | exit sign | 77 | 100% | 0.01 | 15 | \$148 | 31% | 0.3 |
| FE-Penn Power | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Grocery | Other Int. Lighting | ROB | exit sign | 77 | 100% | 0.01 | 15 | \$148 | 26% | 0.3 |
| FE-Penn Power | Time Clock Control | Lighting w/ No Controls | Grocery | Other Int. Lighting | Existing | building | 11,793 | 28% | 0.3 | 8 | \$296 | 13% | 3.6 |
| FE-Penn Power | Time Clock Control | Lighting w/ No Controls | Grocery | Other Int. Lighting | New | building | 11,793 | 4.1% | 0.04 | 8 | \$296 | 0% | 0.5 |
| FE-Penn Power | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Grocery | Plug Load | Existing | building | 2,913 | 46% | 0.5 | 5 | \$189 | 4% | 2.2 |
| FE-Penn Power | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Grocery | Plug Load | New | building | 1,422 | 46% | 0.5 | 5 | \$189 | 4% | 1.5 |
| FE-Penn Power | Data Center - Server/Storage Consolidation | No Consolidation | Grocery | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penn Power | Data Center - Server/Storage Consolidation | No Consolidation | Grocery | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penn Power | Data Center - Server/Storage Virtualization | No Virtualization | Grocery | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penn Power | Data Center - Server/Storage Virtualization | No Virtualization | Grocery | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penn Power | Energy Star - Scanners | Std Scanner | Grocery | Plug Load | New | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| FE-Penn Power | Energy Star - Scanners | Std Scanner | Grocery | Plug Load | ROB | measure | 68 | 3.8% | 0.04 | 4 | \$130 | 7% | 0.1 |
| FE-Penn Power | Energy Star Battery Charging System (for small cordless products) | Std. Battery Charging System | Grocery | Plug Load | ROB | measure | 593 | 2.3% | 0.10 | 5 | \$65 | 4% | 0.6 |
| FE-Penn Power | Energy Star Dishwasher | Existing Dishwasher units | Grocery | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,580 | 16% | 0.9 |
| FE-Penn Power | Energy Star Dishwasher | Standard Dishwasher unit | Grocery | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 16% | 2.8 |
| FE-Penn Power | Energy Star Dishwasher | Standard Dishwasher unit | Grocery | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 16% | 2.8 |
| FE-Penn Power | Energy Star External Power Adapter | Std. Power Adapter | Grocery | Plug Load | New | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| FE-Penn Power | Energy Star External Power Adapter | Std. Power Adapter | Grocery | Plug Load | ROB | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| FE-Penn Power | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Grocery | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 17% | 0.1 |
| FE-Penn Power | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Grocery | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 1.7 |
| FE-Penn Power | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Grocery | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 1.7 |
| FE-Penn Power | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Grocery | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 9% | 0.7 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|--|---|---------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Grocery | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.5 |
| FE-Penn Power | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Grocery | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.5 |
| FE-Penn Power | ENERGY STAR® Copiers | 10% Less Efficient Copier | Grocery | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 18% | 0.0 |
| FE-Penn Power | ENERGY STAR® Copiers | One Conventional Copier | Grocery | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| FE-Penn Power | ENERGY STAR® Copiers | One Conventional Copier | Grocery | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| FE-Penn Power | ENERGY STAR® desktop | Standard computer | Grocery | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 69% | 0.1 |
| FE-Penn Power | ENERGY STAR® desktop | Standard computer | Grocery | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.2 |
| FE-Penn Power | ENERGY STAR® desktop | Standard computer | Grocery | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.2 |
| FE-Penn Power | ENERGY STAR® Fax | 10% Less Efficient Fax | Grocery | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 15% | 0.0 |
| FE-Penn Power | ENERGY STAR® Fax | One Conventional Fax | Grocery | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.1 |
| FE-Penn Power | ENERGY STAR® Fax | One Conventional Fax | Grocery | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.1 |
| FE-Penn Power | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Grocery | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 70% | 0.0 |
| FE-Penn Power | ENERGY STAR® Monitors | One Conventional Monitor | Grocery | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| FE-Penn Power | ENERGY STAR® Monitors | One Conventional Monitor | Grocery | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| FE-Penn Power | ENERGY STAR® Printers | 10% Less Efficient Printer | Grocery | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 44% | 0.0 |
| FE-Penn Power | ENERGY STAR® Printers | One Conventional Printer | Grocery | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| FE-Penn Power | ENERGY STAR® Printers | One Conventional Printer | Grocery | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| FE-Penn Power | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Grocery | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 43% | 0.1 |
| FE-Penn Power | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Grocery | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.6 |
| FE-Penn Power | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Grocery | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.6 |
| FE-Penn Power | ENERGY STAR® Televisions | 10% Less Efficient Television | Grocery | Plug Load | Early | Unit | 505 | 38% | 0.03 | 6 | \$672 | 40% | 0.1 |
| FE-Penn Power | ENERGY STAR® Televisions | One Conventional Television | Grocery | Plug Load | New | Unit | 459 | 32% | 0.02 | 6 | \$206 | 40% | 0.2 |
| FE-Penn Power | ENERGY STAR® Televisions | One Conventional Television | Grocery | Plug Load | ROB | Unit | 459 | 32% | 0.02 | 6 | \$206 | 40% | 0.2 |
| FE-Penn Power | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Grocery | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 24% | 0.2 |
| FE-Penn Power | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Grocery | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.5 |
| FE-Penn Power | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Grocery | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.5 |
| FE-Penn Power | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Grocery | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.2 |
| FE-Penn Power | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Grocery | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.2 |
| FE-Penn Power | Network PC Power Management | No PC Power Management | Grocery | Plug Load | Existing | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 7.8 |
| FE-Penn Power | Network PC Power Management | No PC Power Management | Grocery | Plug Load | New | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 7.8 |
| FE-Penn Power | Smart Strip Plug Outlets | Standard plug strip/outlet | Grocery | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.3 |
| FE-Penn Power | Smart Strip Plug Outlets | Standard plug strip/outlet | Grocery | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.3 |
| FE-Penn Power | Smart Strip Plug Outlets | Standard plug strip/outlet | Grocery | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| FE-Penn Power | Smart Strip Plug Outlets | Standard plug strip/outlet | Grocery | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| FE-Penn Power | Smart Strip Plug Outlets | Standard plug strip/outlet | Grocery | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| FE-Penn Power | Smart Strip Plug Outlets | Standard plug strip/outlet | Grocery | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| FE-Penn Power | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Grocery | Plug Load | Existing | building | 2,913 | 46% | 0.5 | 5 | \$180 | 3% | 2.3 |
| FE-Penn Power | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Grocery | Plug Load | New | building | 1,422 | 46% | 0.5 | 5 | \$180 | 3% | 1.6 |
| FE-Penn Power | Air curtain technology | Strip plastic curtain | Grocery | Refrigeration | New | building | 75,936 | 3.1% | 0.03 | 8 | \$133 | 35% | 4.7 |
| FE-Penn Power | Air curtain technology | Strip plastic curtain | Grocery | Refrigeration | New | building | 40,562 | 3.1% | 0.03 | 8 | \$133 | 35% | 2.6 |
| FE-Penn Power | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Grocery | Refrigeration | Existing | building | 91,123 | 0.7% | 0.01 | 12 | \$70 | 11% | 3.3 |
| FE-Penn Power | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Grocery | Refrigeration | New | building | 91,123 | 0.7% | 0.01 | 12 | \$70 | 11% | 3.3 |
| FE-Penn Power | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Grocery | Refrigeration | Existing | building | 91,123 | 1.5% | 0.02 | 12 | \$70 | 11% | 6.8 |
| FE-Penn Power | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Grocery | Refrigeration | New | building | 91,123 | 1.5% | 0.02 | 12 | \$70 | 11% | 6.8 |
| FE-Penn Power | Auto Closer on Refrigerator Door | Door w/out Autocloser | Grocery | Refrigeration | Existing | building | 75,936 | 1.4% | 0.01 | 8 | \$817 | 40% | 0.3 |
| FE-Penn Power | Auto Closer on Refrigerator Door | Door w/out Autocloser | Grocery | Refrigeration | Existing | building | 40,562 | 1.1% | 0.01 | 8 | \$1,208 | 40% | 0.1 |
| FE-Penn Power | Auto Closer on Refrigerator Door | Door w/out Autocloser | Grocery | Refrigeration | New | building | 75,936 | 1.4% | 0.01 | 8 | \$817 | 40% | 0.3 |
| FE-Penn Power | Auto Closer on Refrigerator Door | Door w/out Autocloser | Grocery | Refrigeration | New | building | 40,562 | 1.1% | 0.01 | 8 | \$1,208 | 40% | 0.1 |
| FE-Penn Power | Demand Hot Gas Defrost | Base Refrigeration System | Grocery | Refrigeration | Existing | building | 91,123 | 3.0% | 0.03 | 10 | \$1,326 | 83% | 0.6 |
| FE-Penn Power | Demand Hot Gas Defrost | Base Refrigeration System | Grocery | Refrigeration | New | building | 91,123 | 3.0% | 0.03 | 10 | \$1,326 | 79% | 0.6 |
| FE-Penn Power | Door Gasket- Freezer | Door w/out Gasket | Grocery | Refrigeration | Existing | building | 75,936 | 0.9% | 0.01 | 4 | \$84 | 29% | 1.3 |
| FE-Penn Power | Door Gasket- Freezer | Door w/out Gasket | Grocery | Refrigeration | New | building | 75,936 | 0.9% | 0.01 | 4 | \$84 | 29% | 1.3 |
| FE-Penn Power | Door Gasket- Refrigerator | Door w/out Gasket | Grocery | Refrigeration | Existing | building | 40,562 | 0.4% | 0.00 | 4 | \$167 | 45% | 0.2 |
| FE-Penn Power | Door Gasket- Refrigerator | Door w/out Gasket | Grocery | Refrigeration | New | building | 40,562 | 0.4% | 0.00 | 4 | \$167 | 45% | 0.2 |
| FE-Penn Power | Economizer for Walk-in Coolers | No Economizer | Grocery | Refrigeration | Early | measure | 213,168 | 12% | 3.6 | 10 | \$2,237 | 72% | 4.4 |
| FE-Penn Power | Economizer for Walk-in Coolers | No Economizer | Grocery | Refrigeration | Early | measure | 213,168 | 12% | 3.6 | 10 | \$2,237 | 72% | 4.4 |
| FE-Penn Power | Economizer for Walk-in Coolers | No Economizer | Grocery | Refrigeration | Early | measure | 213,168 | 12% | 3.6 | 10 | \$2,237 | 72% | 4.4 |
| FE-Penn Power | Economizer for Walk-in Coolers | No Economizer | Grocery | Refrigeration | New | measure | 213,168 | 12% | 3.6 | 10 | \$176 | 72% | 56.5 |
| FE-Penn Power | Economizer for Walk-in Coolers | No Economizer | Grocery | Refrigeration | New | measure | 213,168 | 12% | 3.6 | 10 | \$176 | 72% | 56.6 |
| FE-Penn Power | Economizer for Walk-in Coolers | No Economizer | Grocery | Refrigeration | New | measure | 213,168 | 12% | 3.6 | 10 | \$176 | 72% | 56.6 |
| FE-Penn Power | Economizer for Walk-in Coolers | No Economizer | Grocery | Refrigeration | ROB | measure | 213,168 | 12% | 3.6 | 10 | \$176 | 72% | 56.5 |
| FE-Penn Power | Economizer for Walk-in Coolers | No Economizer | Grocery | Refrigeration | ROB | measure | 213,168 | 12% | 3.6 | 10 | \$176 | 72% | 56.6 |
| FE-Penn Power | eCube | Refrigeration unit w/out eCube | Grocery | Refrigeration | Existing | building | 40,562 | 15% | 0.2 | 15 | \$637 | 57% | 4.0 |
| FE-Penn Power | eCube | Refrigeration unit w/out eCube | Grocery | Refrigeration | New | building | 40,562 | 15% | 0.2 | 15 | \$637 | 57% | 4.0 |
| FE-Penn Power | Efficient compressor motor | Base Refrigeration System - Grocery | Grocery | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 83% | 2.4 |
| FE-Penn Power | Efficient compressor motor | Base Refrigeration System - Grocery | Grocery | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 83% | 2.4 |
| FE-Penn Power | Efficient compressor motor | Base Refrigeration System - Grocery | Grocery | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 83% | 2.3 |
| FE-Penn Power | Efficient compressor motor | Base Refrigeration System - Grocery | Grocery | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 83% | 2.4 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|--|---------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Grocery | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.4 |
| FE-Penn Power | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Grocery | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.2 |
| FE-Penn Power | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Grocery | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.2 |
| FE-Penn Power | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Grocery | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.2 |
| FE-Penn Power | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Grocery | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.6 |
| FE-Penn Power | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Grocery | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.6 |
| FE-Penn Power | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Grocery | Refrigeration | Existing | building | 40,562 | 0.2% | 0.00 | 10 | \$369 | 77% | 0.1 |
| FE-Penn Power | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Grocery | Refrigeration | New | building | 40,562 | 0.2% | 0.00 | 10 | \$369 | 77% | 0.1 |
| FE-Penn Power | Floating head pressure controller | System w/out FHPC | Grocery | Refrigeration | Existing | building | 75,936 | 1.8% | 0.01 | 15 | \$8,682 | 41% | 0.1 |
| FE-Penn Power | Floating head pressure controller | System w/out FHPC | Grocery | Refrigeration | Existing | building | 40,562 | 1.2% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penn Power | Floating head pressure controller | System w/out FHPC | Grocery | Refrigeration | Existing | building | 91,123 | 0.6% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penn Power | Floating head pressure controller | System w/out FHPC | Grocery | Refrigeration | New | building | 75,936 | 1.8% | 0.01 | 15 | \$8,682 | 41% | 0.1 |
| FE-Penn Power | Floating head pressure controller | System w/out FHPC | Grocery | Refrigeration | New | building | 40,562 | 1.2% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penn Power | Floating head pressure controller | System w/out FHPC | Grocery | Refrigeration | New | building | 91,123 | 0.6% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penn Power | High Efficiency Commercial Freezer | Std. Commercial Freezer | Grocery | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 79% | 0.3 |
| FE-Penn Power | High Efficiency Commercial Freezer | Std. Commercial Freezer | Grocery | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 79% | 3.2 |
| FE-Penn Power | High Efficiency Commercial Freezer | Std. Commercial Freezer | Grocery | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 79% | 3.2 |
| FE-Penn Power | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Grocery | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 79% | 0.1 |
| FE-Penn Power | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Grocery | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 79% | 0.7 |
| FE-Penn Power | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Grocery | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 79% | 0.7 |
| FE-Penn Power | High Efficiency Ice Maker | Existing Standard Efficiency Ice Maker in Pennsylvania | Grocery | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 69% | 0.1 |
| FE-Penn Power | High Efficiency Ice Maker | Standard code minimum Ice Maker | Grocery | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 69% | 0.1 |
| FE-Penn Power | High Efficiency Ice Maker | Standard code minimum Ice Maker | Grocery | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 69% | 0.1 |
| FE-Penn Power | High Efficiency Ice Making Head | Standard Ice Making Head | Grocery | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.2 |
| FE-Penn Power | High Efficiency Ice Making Head | Standard Ice Making Head | Grocery | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.2 |
| FE-Penn Power | High R-Value Glass Doors | Base Refrigeration System - Grocery | Grocery | Refrigeration | Existing | building | 91,123 | 0.7% | 0.01 | 10 | \$317 | 90% | 0.6 |
| FE-Penn Power | High R-Value Glass Doors | Base Refrigeration System - Grocery | Grocery | Refrigeration | New | building | 91,123 | 0.7% | 0.01 | 10 | \$317 | 90% | 0.6 |
| FE-Penn Power | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Grocery | Refrigeration | Early | Fixture | 373 | 56% | 0.03 | 8 | \$448 | 89% | 0.2 |
| FE-Penn Power | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Grocery | Refrigeration | New | Fixture | 291 | 44% | 0.02 | 8 | \$139 | 89% | 0.3 |
| FE-Penn Power | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Grocery | Refrigeration | ROB | Fixture | 291 | 44% | 0.02 | 8 | \$139 | 89% | 0.3 |
| FE-Penn Power | No-heat glass doors | Standard low-temp reach-in | Grocery | Refrigeration | Existing | building | 91,123 | 20% | 0.2 | 10 | \$29,014 | 8% | 0.2 |
| FE-Penn Power | No-heat glass doors | Standard low-temp reach-in | Grocery | Refrigeration | New | building | 91,123 | 20% | 0.2 | 10 | \$29,014 | 8% | 0.2 |
| FE-Penn Power | Quick acting freezer doors | Std. Freezer Doors | Grocery | Refrigeration | Existing | building | 75,936 | 13% | 0.1 | 10 | \$17,073 | 56% | 0.2 |
| FE-Penn Power | Quick acting freezer doors | Std. Freezer Doors | Grocery | Refrigeration | New | building | 75,936 | 13% | 0.1 | 10 | \$17,073 | 56% | 0.2 |
| FE-Penn Power | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Grocery | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 29% | 0.3 |
| FE-Penn Power | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Grocery | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 29% | 1.3 |
| FE-Penn Power | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Grocery | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 29% | 1.3 |
| FE-Penn Power | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 29% | 1.3 |
| FE-Penn Power | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 29% | 2.2 |
| FE-Penn Power | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 29% | 2.2 |
| FE-Penn Power | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 29% | 1.3 |
| FE-Penn Power | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 29% | 3.0 |
| FE-Penn Power | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 29% | 3.0 |
| FE-Penn Power | Refrigeration Commissioning | Non-commissioned refrigeration system | Grocery | Refrigeration | Existing | building | 215,152 | 9.5% | 0.10 | 3 | \$35,188 | 85% | 0.1 |
| FE-Penn Power | Refrigeration Commissioning | Non-commissioned refrigeration system | Grocery | Refrigeration | New | building | 215,152 | 9.5% | 0.10 | 3 | \$35,188 | 85% | 0.1 |
| FE-Penn Power | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Grocery | Refrigeration | Existing | building | 75,936 | 1.8% | 0.02 | 4 | \$102 | 22% | 2.1 |
| FE-Penn Power | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Grocery | Refrigeration | Existing | building | 40,562 | 0.5% | 0.01 | 4 | \$203 | 22% | 0.2 |
| FE-Penn Power | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Grocery | Refrigeration | New | building | 75,936 | 1.8% | 0.02 | 4 | \$102 | 22% | 2.1 |
| FE-Penn Power | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Grocery | Refrigeration | New | building | 40,562 | 0.5% | 0.01 | 4 | \$203 | 22% | 0.2 |
| FE-Penn Power | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Grocery | Refrigeration | Existing | building | 75,936 | 0.4% | 0.00 | 11 | \$167 | 77% | 0.6 |
| FE-Penn Power | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Grocery | Refrigeration | New | building | 75,936 | 0.4% | 0.00 | 11 | \$167 | 77% | 0.6 |
| FE-Penn Power | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Grocery | Refrigeration | Existing | building | 40,562 | 0.3% | 0.00 | 11 | \$167 | 77% | 0.3 |
| FE-Penn Power | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Grocery | Refrigeration | New | building | 40,562 | 0.3% | 0.00 | 11 | \$167 | 77% | 0.3 |
| FE-Penn Power | Vendor Miser | No Vendor Miser | Grocery | Refrigeration | Existing | building | 7,530 | 0.5% | 0.00 | 8 | \$33 | 7% | 0.3 |
| FE-Penn Power | Vertical Night Covers | Display cases w/out night covers-High Temperature | Grocery | Refrigeration | Existing | building | 91,123 | 0.1% | 0.00 | 5 | \$242 | 9% | 0.1 |
| FE-Penn Power | Vertical Night Covers | Display cases w/out night covers-High Temperature | Grocery | Refrigeration | New | building | 91,123 | 0.1% | 0.00 | 5 | \$242 | 9% | 0.1 |
| FE-Penn Power | VSD Controlled Compressor | Compressor w/out VSD | Grocery | Refrigeration | Early | Refrigerator | 7,487 | 14% | 0.1 | 15 | \$731 | 73% | 0.7 |
| FE-Penn Power | VSD Controlled Compressor | Compressor w/out VSD | Grocery | Refrigeration | New | Refrigerator | 7,487 | 14% | 0.1 | 15 | \$731 | 73% | 0.7 |
| FE-Penn Power | VSD Controlled Compressor | Compressor w/out VSD | Grocery | Refrigeration | ROB | Refrigerator | 7,487 | 14% | 0.1 | 15 | \$731 | 73% | 0.7 |
| FE-Penn Power | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Grocery | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$269 | 35% | 0.7 |
| FE-Penn Power | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Grocery | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$269 | 35% | 0.7 |
| FE-Penn Power | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Grocery | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 2.4 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|--|---------|-----------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Grocery | Refrigeration | New | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 2.3 |
| FE-Penn Power | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Grocery | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 2.4 |
| FE-Penn Power | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Grocery | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 2.3 |
| FE-Penn Power | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 35% | 1.9 |
| FE-Penn Power | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 35% | 1.8 |
| FE-Penn Power | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 3.9 |
| FE-Penn Power | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 3.7 |
| FE-Penn Power | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 3.9 |
| FE-Penn Power | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 3.7 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Grocery | Space Heating | Existing | building | 15,617 | 7.1% | 0.07 | 6 | \$23,951 | 82% | 0.0 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Grocery | Space Heating | New | building | 15,617 | 7.1% | 0.07 | 6 | \$23,951 | 82% | 0.0 |
| FE-Penn Power | Adding window shade film | No shade film | Grocery | Space Heating | Existing | building | 15,617 | 1.3% | 0.4 | 10 | \$190 | 13% | 1.5 |
| FE-Penn Power | Adding window shade film | No shade film | Grocery | Space Heating | New | building | 15,617 | 1.3% | 0.4 | 10 | \$190 | 13% | 1.5 |
| FE-Penn Power | Adding window shade screen | No shade screen | Grocery | Space Heating | Existing | building | 15,617 | 1.1% | 0.01 | 10 | \$74 | 13% | 0.8 |
| FE-Penn Power | Adding window shade screen | No shade screen | Grocery | Space Heating | New | building | 15,617 | 1.1% | 0.01 | 10 | \$74 | 13% | 0.8 |
| FE-Penn Power | Automated control system | Manual Controls | Grocery | Space Heating | Existing | building | 15,617 | 17% | 0.2 | 15 | \$17,097 | 51% | 0.1 |
| FE-Penn Power | Automated control system | Manual Controls | Grocery | Space Heating | New | building | 15,617 | 17% | 0.2 | 15 | \$17,097 | 94% | 0.1 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Grocery | Space Heating | Existing | building | 15,617 | 9.8% | 0.10 | 15 | \$33,930 | 71% | 0.0 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Grocery | Space Heating | New | building | 15,617 | 3.3% | 0.03 | 15 | \$32,251 | 94% | 0.0 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Grocery | Space Heating | Existing | building | 15,617 | 1.4% | 0.04 | 15 | \$124 | 20% | 0.9 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Grocery | Space Heating | New | building | 15,617 | 1.4% | 0.04 | 15 | \$124 | 10% | 0.9 |
| FE-Penn Power | Efficient Unit Heating System | Existing Unit Heaters in PA | Grocery | Space Heating | Early | heater | 18,625 | 23% | 0.03 | 15 | \$3,289 | 83% | 0.5 |
| FE-Penn Power | Efficient Unit Heating System | Std. Unit Heater | Grocery | Space Heating | New | heater | 16,530 | 13% | 0.02 | 15 | \$1,991 | 83% | 0.4 |
| FE-Penn Power | Efficient Unit Heating System | Std. Unit Heater | Grocery | Space Heating | ROB | heater | 16,530 | 13% | 0.02 | 15 | \$1,991 | 83% | 0.4 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Grocery | Space Heating | Existing | building | 15,617 | 7.1% | 0.07 | 15 | \$69,273 | 25% | 0.0 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Grocery | Space Heating | New | building | 15,617 | 7.1% | 0.07 | 15 | \$69,273 | 35% | 0.0 |
| FE-Penn Power | Hi Eff HVAC System Design | No HVAC Design | Grocery | Space Heating | New | building | 15,617 | 9.3% | 0.09 | 10 | \$897,884 | 51% | 0.0 |
| FE-Penn Power | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Grocery | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 0.8 |
| FE-Penn Power | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Grocery | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 0.8 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Grocery | Space Heating | Existing | building | 15,617 | 1.1% | 0.01 | 10 | \$7,735 | 81% | 0.0 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Grocery | Space Heating | New | building | 15,617 | 1.1% | 0.01 | 10 | \$7,735 | 81% | 0.0 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Grocery | Space Heating | Existing | building | 15,617 | 3.6% | 0.04 | 11 | \$286 | 49% | 0.7 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Grocery | Space Heating | New | building | 15,617 | 3.1% | 0.03 | 11 | \$146 | 49% | 1.2 |
| FE-Penn Power | Re-Commissioning (Existing Construction) | No Re-Commissioning | Grocery | Space Heating | Existing | building | 15,617 | 16% | 0.2 | 5 | \$19,254 | 86% | 0.0 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Grocery | Space Heating | Existing | building | 15,617 | 19% | 0.2 | 15 | \$7,224 | 26% | 0.2 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Grocery | Space Heating | New | building | 15,617 | 0.5% | 0.01 | 15 | \$5,541 | 94% | 0.0 |
| FE-Penn Power | Green LED Traffic Light | Green Incandescent Traffic Light | Grocery | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 0% | 1.0 |
| FE-Penn Power | Green LED Traffic Light | Green Incandescent Traffic Light | Grocery | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| FE-Penn Power | Green LED Traffic Light | Green Incandescent Traffic Light | Grocery | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| FE-Penn Power | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Grocery | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 0% | 2.6 |
| FE-Penn Power | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Grocery | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-Penn Power | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Grocery | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-Penn Power | Induction Street Lighting | One 100W HPS Street Light Fixture | Grocery | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 0% | 0.2 |
| FE-Penn Power | Induction Street Lighting | One 100W HPS Street Light Fixture | Grocery | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.4 |
| FE-Penn Power | Induction Street Lighting | One 100W HPS Street Light Fixture | Grocery | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.4 |
| FE-Penn Power | LED Street Lighting | One 100W HPS Street Light | Grocery | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 0% | 0.2 |
| FE-Penn Power | LED Street Lighting | One 100W HPS Street Light | Grocery | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-Penn Power | LED Street Lighting | One 100W HPS Street Light | Grocery | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-Penn Power | Red LED Traffic Light | One Red Incandescent Traffic Light | Grocery | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 0% | 1.4 |
| FE-Penn Power | Red LED Traffic Light | One Red Incandescent Traffic Light | Grocery | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.2 |
| FE-Penn Power | Red LED Traffic Light | One Red Incandescent Traffic Light | Grocery | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.2 |
| FE-Penn Power | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Grocery | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 0% | 0.1 |
| FE-Penn Power | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Grocery | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-Penn Power | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Grocery | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-Penn Power | Demand controlled Circulating Systems | Constant circulation system | Grocery | Water Heating | Existing | building | 1,430 | 20% | 0.2 | 15 | \$260 | 59% | 1.1 |
| FE-Penn Power | Demand controlled Circulating Systems | Constant circulation system | Grocery | Water Heating | New | building | 1,430 | 20% | 0.2 | 15 | \$260 | 59% | 1.1 |
| FE-Penn Power | Drainwater Heat Recovery Water Heater | No heat recovery | Grocery | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.5 |
| FE-Penn Power | Drainwater Heat Recovery Water Heater | No heat recovery | Grocery | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.5 |
| FE-Penn Power | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Grocery | Water Heating | Existing | building | 1,430 | 5.9% | 0.06 | 12 | \$28 | 85% | 2.5 |
| FE-Penn Power | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Grocery | Water Heating | New | building | 1,430 | 5.9% | 0.06 | 12 | \$8.0 | 85% | 8.9 |
| FE-Penn Power | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Grocery | Water Heating | Early | water heater | 86,559 | 66% | 10.1 | 10 | \$3,562 | 68% | 6.9 |
| FE-Penn Power | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Grocery | Water Heating | Early | water heater | 86,559 | 66% | 10.1 | 10 | \$3,562 | 68% | 6.9 |
| FE-Penn Power | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Grocery | Water Heating | New | water heater | 86,559 | 66% | 10.1 | 10 | \$3,562 | 68% | 6.9 |
| FE-Penn Power | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Grocery | Water Heating | New | water heater | 86,559 | 66% | 10.1 | 10 | \$3,562 | 68% | 6.9 |
| FE-Penn Power | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Grocery | Water Heating | ROB | water heater | 84,155 | 65% | 9.7 | 10 | \$3,562 | 68% | 6.6 |
| FE-Penn Power | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Grocery | Water Heating | ROB | water heater | 84,155 | 65% | 9.7 | 10 | \$3,562 | 68% | 6.6 |
| FE-Penn Power | Heat Recovery Unit | Base Water Heating | Grocery | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|--|---|------------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Heat Recovery Unit | Base Water Heating | Grocery | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.3 |
| FE-Penn Power | Heat Trap | No Heat Trap | Grocery | Water Heating | Existing | building | 1,430 | 22% | 0.2 | 11 | \$9.7 | 50% | 26.1 |
| FE-Penn Power | Heat Trap | No Heat Trap | Grocery | Water Heating | New | building | 1,430 | 22% | 0.2 | 11 | \$1.5 | 50% | 175.0 |
| FE-Penn Power | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Grocery | Water Heating | Early | water heater | 86,559 | 5.9% | 0.9 | 15 | \$921 | 79% | 3.2 |
| FE-Penn Power | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Grocery | Water Heating | Early | water heater | 86,559 | 5.9% | 0.9 | 15 | \$921 | 79% | 3.2 |
| FE-Penn Power | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Grocery | Water Heating | New | water heater | 84,155 | 3.2% | 0.5 | 15 | \$921 | 79% | 1.7 |
| FE-Penn Power | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Grocery | Water Heating | New | water heater | 84,155 | 3.2% | 0.5 | 15 | \$921 | 79% | 1.7 |
| FE-Penn Power | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Grocery | Water Heating | ROB | water heater | 84,155 | 3.2% | 0.5 | 15 | \$921 | 79% | 1.7 |
| FE-Penn Power | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Grocery | Water Heating | ROB | water heater | 84,155 | 3.2% | 0.5 | 15 | \$921 | 79% | 1.7 |
| FE-Penn Power | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Grocery | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$466 | 81% | 32.0 |
| FE-Penn Power | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Grocery | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 16.7 |
| FE-Penn Power | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Grocery | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 16.7 |
| FE-Penn Power | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Grocery | Water Heating | Existing | building | 1,430 | 4.3% | 0.04 | 13 | \$9.2 | 68% | 5.9 |
| FE-Penn Power | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Grocery | Water Heating | New | building | 1,430 | 4.3% | 0.04 | 13 | \$9.2 | 0% | 5.9 |
| FE-Penn Power | Hot Water Circulation Pump Time-Clock | Constant circulation system | Grocery | Water Heating | Existing | building | 1,430 | 5.3% | 0.05 | 10 | \$5.8 | 72% | 9.9 |
| FE-Penn Power | Hot Water Circulation Pump Time-Clock | Constant circulation system | Grocery | Water Heating | New | building | 1,430 | 5.3% | 0.05 | 10 | \$5.8 | 72% | 9.9 |
| FE-Penn Power | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Grocery | Water Heating | Existing | building | 1,315 | 0.1% | 0.00 | 7 | \$22 | 78% | 0.0 |
| FE-Penn Power | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Grocery | Water Heating | New | building | 1,315 | 0.1% | 0.00 | 7 | \$0.5 | 78% | 1.7 |
| FE-Penn Power | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Grocery | Water Heating | Existing | building | 1,430 | 13% | 0.1 | 5 | \$300 | 20% | 0.3 |
| FE-Penn Power | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Grocery | Water Heating | New | building | 1,430 | 8.9% | 0.09 | 5 | \$194 | 20% | 0.3 |
| FE-Penn Power | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Grocery | Water Heating | Existing | building | 1,430 | 6.5% | 0.07 | 9 | \$25 | 2% | 2.6 |
| FE-Penn Power | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Grocery | Water Heating | New | building | 1,430 | 6.5% | 0.07 | 9 | \$6.0 | 2% | 10.9 |
| FE-Penn Power | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Grocery | Water Heating | Early | water heater | 86,559 | 52% | 3.7 | 15 | \$18,666 | 32% | 1.2 |
| FE-Penn Power | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Grocery | Water Heating | New | water heater | 84,155 | 51% | 3.5 | 15 | \$18,666 | 32% | 1.1 |
| FE-Penn Power | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Grocery | Water Heating | ROB | water heater | 84,155 | 51% | 3.5 | 15 | \$18,666 | 32% | 1.1 |
| FE-Penn Power | Ultrasonic Faucet Control | Manual Faucet Control | Grocery | Water Heating | Existing | building | 1,430 | 3.0% | 0.03 | 10 | \$247 | 77% | 0.1 |
| FE-Penn Power | Ultrasonic Faucet Control | Manual Faucet Control | Grocery | Water Heating | New | building | 1,430 | 3.1% | 0.03 | 10 | \$247 | 77% | 0.1 |
| FE-Penn Power | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Grocery | Water Heating | Existing | building | 1,430 | 2.2% | 0.02 | 4 | \$28 | 83% | 0.4 |
| FE-Penn Power | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Grocery | Water Heating | New | building | 1,430 | 2.3% | 0.02 | 4 | \$28 | 83% | 0.5 |
| FE-Penn Power | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Healthcare | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 0.9 |
| FE-Penn Power | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Healthcare | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 0.9 |
| FE-Penn Power | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Healthcare | Cooking | Early | steamer | 51 | 46% | 0.00 | 12 | \$5,053 | 81% | 0.0 |
| FE-Penn Power | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Healthcare | Cooking | New | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-Penn Power | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Healthcare | Cooking | ROB | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-Penn Power | Electric combination oven (Energy Star) | Standard Oven | Healthcare | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.5 |
| FE-Penn Power | Electric combination oven (Energy Star) | Standard Oven | Healthcare | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.5 |
| FE-Penn Power | Electric Convection Oven | Conventional convection oven w/ 65% efficiency | Healthcare | Cooking | Early | oven | 8,641 | 37% | 0.6 | 12 | \$4,119 | 81% | 0.4 |
| FE-Penn Power | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Healthcare | Cooking | New | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.6 |
| FE-Penn Power | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Healthcare | Cooking | ROB | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.6 |
| FE-Penn Power | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Healthcare | Cooking | Early | fryer | 6,105 | 23% | 0.3 | 12 | \$9,241 | 86% | 0.1 |
| FE-Penn Power | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Healthcare | Cooking | New | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| FE-Penn Power | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Healthcare | Cooking | ROB | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| FE-Penn Power | High Efficiency Griddle (ENERGY STAR) | Efficiency code minimum griddle (70% eff) | Healthcare | Cooking | Early | griddle | 11,317 | 65% | 1.4 | 12 | \$4,977 | 86% | 0.7 |
| FE-Penn Power | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Healthcare | Cooking | New | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.0 |
| FE-Penn Power | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Healthcare | Cooking | ROB | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.0 |
| FE-Penn Power | High Efficiency Induction Cooking | Standard Cooking | Healthcare | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-Penn Power | High Efficiency Induction Cooking | Standard Cooking | Healthcare | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-Penn Power | Solid-state temperature controls | No Solid State Controls | Healthcare | Cooking | Existing | building | 15,639 | 3.6% | 0.04 | 12 | \$70 | 34% | 3.1 |
| FE-Penn Power | Active chilled beam cooling | No Active Chilled beam cooling | Healthcare | Cooling Central | New | building | 9,987 | 5.3% | 0.05 | 15 | \$2,611 | 72% | 0.1 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Healthcare | Cooling Central | Existing | building | 10,512 | 7.0% | 0.07 | 6 | \$14,919 | 82% | 0.0 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Healthcare | Cooling Central | New | building | 10,512 | 7.0% | 0.07 | 6 | \$14,919 | 82% | 0.0 |
| FE-Penn Power | Adding window shade film | No shade film | Healthcare | Cooling Central | Existing | building | 10,512 | 1.3% | 0.4 | 10 | \$128 | 12% | 2.1 |
| FE-Penn Power | Adding window shade film | No shade film | Healthcare | Cooling Central | New | building | 10,512 | 1.3% | 0.4 | 10 | \$128 | 13% | 2.1 |
| FE-Penn Power | Adding window shade screen | No shade screen | Healthcare | Cooling Central | Existing | building | 10,512 | 1.0% | 0.01 | 10 | \$49 | 13% | 0.8 |
| FE-Penn Power | Adding window shade screen | No shade screen | Healthcare | Cooling Central | New | building | 10,512 | 1.1% | 0.01 | 10 | \$49 | 13% | 0.9 |
| FE-Penn Power | Automated control system | Manual Controls | Healthcare | Cooling Central | Existing | building | 10,512 | 17% | 0.2 | 15 | \$11,508 | 51% | 0.1 |
| FE-Penn Power | Automated control system | Manual Controls | Healthcare | Cooling Central | New | building | 10,512 | 17% | 0.2 | 15 | \$11,508 | 94% | 0.1 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Healthcare | Cooling Central | Existing | building | 10,512 | 1.0% | 0.01 | 15 | \$20,566 | 71% | 0.0 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Healthcare | Cooling Central | New | building | 10,512 | 0.3% | 0.00 | 15 | \$19,549 | 94% | 0.0 |
| FE-Penn Power | Chilled Water Reset, Optimizer System for Chiller(s) | No Chilled Water Reset | Healthcare | Cooling Central | Existing | building | 10,512 | 3.7% | 0.04 | 10 | \$48 | 69% | 3.1 |
| FE-Penn Power | Chiller Tune Up Diagnostics | No Chiller Tune Up | Healthcare | Cooling Central | Existing | building | 10,512 | 2.3% | 0.02 | 10 | \$11 | 59% | 8.8 |
| FE-Penn Power | Chiller Tuneup/Diagnostics | No tuneup | Healthcare | Cooling Central | Existing | building | 10,512 | 8.0% | 0.08 | 10 | \$26,842 | 59% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|--|---|------------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Chiller Tuneup/Diagnostics | No tuneup | Healthcare | Cooling Central | New | building | 10,512 | 8.0% | 0.08 | 10 | \$26,842 | 59% | 0.0 |
| FE-Penn Power | Cooling Tower Optimization | No Cooling Tower Optimization | Healthcare | Cooling Central | Existing | building | 10,512 | 4.9% | 0.05 | 10 | \$48 | 73% | 4.2 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Healthcare | Cooling Central | Existing | building | 10,512 | 1.4% | 0.04 | 15 | \$84 | 20% | 1.1 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Healthcare | Cooling Central | New | building | 10,512 | 1.4% | 0.04 | 15 | \$84 | 10% | 1.1 |
| FE-Penn Power | Facility Commissioning | No Facility Commissioning | Healthcare | Cooling Central | New | building | 10,512 | 16% | 0.2 | 10 | \$67,032 | 89% | 0.0 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Healthcare | Cooling Central | Existing | building | 10,512 | 7.0% | 0.07 | 15 | \$46,630 | 25% | 0.0 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Healthcare | Cooling Central | New | building | 10,512 | 7.0% | 0.07 | 15 | \$46,630 | 35% | 0.0 |
| FE-Penn Power | Hi Eff HVAC System Design | No HVAC Design | Healthcare | Cooling Central | New | building | 10,512 | 8.6% | 0.09 | 10 | \$651,928 | 51% | 0.0 |
| FE-Penn Power | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | Early | ton | 8,108 | 24% | 0.7 | 15 | \$108,550 | 88% | 0.0 |
| FE-Penn Power | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | New | ton | 6,628 | 6.7% | 0.2 | 15 | \$12,927 | 88% | 0.0 |
| FE-Penn Power | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | ROB | ton | 6,628 | 6.7% | 0.2 | 15 | \$12,927 | 88% | 0.0 |
| FE-Penn Power | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | Early | ton | 12,115 | 23% | 1.0 | 15 | \$140,105 | 88% | 0.0 |
| FE-Penn Power | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | New | ton | 9,747 | 4.8% | 0.2 | 15 | \$9,336 | 88% | 0.0 |
| FE-Penn Power | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | ROB | ton | 9,747 | 4.8% | 0.2 | 15 | \$9,336 | 88% | 0.0 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | Early | ton | 99,178 | 26% | 9.4 | 15 | \$105,354 | 88% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | New | ton | 86,413 | 15% | 4.7 | 15 | \$30,530 | 88% | 0.3 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | ROB | ton | 86,413 | 15% | 4.7 | 15 | \$30,530 | 88% | 0.3 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | Early | ton | 148,542 | 23% | 12.5 | 15 | \$154,107 | 88% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | New | ton | 136,454 | 16% | 8.0 | 15 | \$27,646 | 88% | 0.6 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | ROB | ton | 148,542 | 23% | 12.5 | 15 | \$27,646 | 88% | 0.9 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | Early | ton | 246,700 | 23% | 20.4 | 15 | \$302,924 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | New | ton | 223,281 | 14% | 11.8 | 15 | \$115,432 | 88% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | ROB | ton | 246,700 | 23% | 20.4 | 15 | \$115,432 | 88% | 0.3 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | Early | ton | 296,040 | 23% | 24.5 | 15 | \$350,154 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | New | ton | 267,937 | 14% | 14.2 | 15 | \$120,406 | 88% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | ROB | ton | 296,040 | 23% | 24.5 | 15 | \$120,406 | 88% | 0.4 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | Early | ton | 65,620 | 29% | 7.0 | 15 | \$83,632 | 88% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | New | ton | 50,953 | 8.9% | 1.7 | 15 | \$40,211 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | ROB | ton | 65,620 | 29% | 7.0 | 15 | \$40,211 | 88% | 0.3 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | Early | ton | 112,751 | 35% | 14.4 | 15 | \$132,173 | 88% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | New | ton | 84,093 | 13% | 3.9 | 15 | \$39,556 | 88% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | ROB | ton | 84,093 | 13% | 3.9 | 15 | \$39,556 | 88% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | Early | ton | 188,247 | 39% | 27.0 | 15 | \$187,029 | 88% | 0.3 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | New | ton | 134,217 | 15% | 7.2 | 15 | \$33,554 | 88% | 0.4 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | ROB | ton | 188,247 | 39% | 27.0 | 15 | \$33,554 | 88% | 1.6 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | Early | ton | 32,940 | 30% | 3.6 | 15 | \$32,398 | 88% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | New | ton | 26,098 | 11% | 1.1 | 15 | \$7,188 | 88% | 0.3 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | ROB | ton | 32,940 | 30% | 3.6 | 15 | \$7,188 | 88% | 1.0 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Healthcare | Cooling Central | Existing | building | 10,512 | 2.1% | 0.02 | 10 | \$22,450 | 81% | 0.0 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Healthcare | Cooling Central | New | building | 10,512 | 2.1% | 0.02 | 10 | \$22,450 | 81% | 0.0 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Healthcare | Cooling Central | Existing | building | 10,512 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.3 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Healthcare | Cooling Central | New | building | 10,512 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.5 |
| FE-Penn Power | Re-Commissioning (Existing Construction) | No Re-Commissioning | Healthcare | Cooling Central | Existing | building | 10,512 | 16% | 0.2 | 5 | \$8,847 | 86% | 0.0 |
| FE-Penn Power | Wall Insulations (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Healthcare | Cooling Central | Existing | building | 10,512 | 2.6% | 0.03 | 15 | \$5,624 | 26% | 0.0 |
| FE-Penn Power | Wall Insulations (Going upto R 21) | Code minimum Wall Insulations | Healthcare | Cooling Central | New | building | 10,512 | 0.1% | 0.00 | 15 | \$4,314 | 94% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|--|------------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | <65k BTU/hr 14 SEER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Healthcare | Cooling Unitary | Early | ton | 1,986 | 16% | 0.2 | 15 | \$1,545 | 29% | 0.2 |
| FE-Penn Power | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Healthcare | Cooling Unitary | New | ton | 1,799 | 7.1% | 0.07 | 15 | \$339 | 29% | 0.3 |
| FE-Penn Power | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Healthcare | Cooling Unitary | ROB | ton | 1,799 | 7.1% | 0.07 | 15 | \$339 | 29% | 0.3 |
| FE-Penn Power | <65k BTU/hr 15 SEER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Healthcare | Cooling Unitary | Early | ton | 1,986 | 22% | 0.2 | 15 | \$1,821 | 30% | 0.2 |
| FE-Penn Power | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Healthcare | Cooling Unitary | New | ton | 1,799 | 13% | 0.1 | 15 | \$714 | 30% | 0.3 |
| FE-Penn Power | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Healthcare | Cooling Unitary | ROB | ton | 1,799 | 13% | 0.1 | 15 | \$714 | 30% | 0.3 |
| FE-Penn Power | <65k BTU/hr 16 SEER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Healthcare | Cooling Unitary | Early | ton | 1,986 | 26% | 0.3 | 15 | \$2,098 | 31% | 0.2 |
| FE-Penn Power | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Healthcare | Cooling Unitary | New | ton | 1,799 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.3 |
| FE-Penn Power | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Healthcare | Cooling Unitary | ROB | ton | 1,799 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.3 |
| FE-Penn Power | >760k min 10.2 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Healthcare | Cooling Unitary | Early | ton | 50,244 | 3.7% | 1.0 | 15 | \$68,066 | 56% | 0.0 |
| FE-Penn Power | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Healthcare | Cooling Unitary | New | ton | 50,889 | 4.9% | 1.4 | 15 | \$6,231 | 56% | 0.3 |
| FE-Penn Power | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Healthcare | Cooling Unitary | ROB | ton | 50,889 | 4.9% | 1.4 | 15 | \$6,231 | 56% | 0.3 |
| FE-Penn Power | 135-240k min 12 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Healthcare | Cooling Unitary | Early | ton | 12,363 | 18% | 1.2 | 15 | \$18,135 | 79% | 0.1 |
| FE-Penn Power | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Healthcare | Cooling Unitary | New | ton | 11,246 | 10.0% | 0.6 | 15 | \$1,948 | 79% | 0.5 |
| FE-Penn Power | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Healthcare | Cooling Unitary | ROB | ton | 11,246 | 10.0% | 0.6 | 15 | \$1,948 | 79% | 0.5 |
| FE-Penn Power | 240k-760k min 11 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Healthcare | Cooling Unitary | Early | ton | 33,055 | 9.0% | 1.6 | 15 | \$44,809 | 66% | 0.1 |
| FE-Penn Power | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Healthcare | Cooling Unitary | New | ton | 33,138 | 9.3% | 1.7 | 15 | \$4,813 | 66% | 0.5 |
| FE-Penn Power | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Healthcare | Cooling Unitary | ROB | ton | 33,138 | 9.3% | 1.7 | 15 | \$4,813 | 66% | 0.5 |
| FE-Penn Power | 65k-135k BTU/hr 12 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Healthcare | Cooling Unitary | Early | ton | 7,288 | 17% | 0.7 | 15 | \$10,946 | 86% | 0.1 |
| FE-Penn Power | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Healthcare | Cooling Unitary | New | ton | 6,495 | 6.7% | 0.2 | 15 | \$1,392 | 86% | 0.3 |
| FE-Penn Power | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Healthcare | Cooling Unitary | ROB | ton | 6,495 | 6.7% | 0.2 | 15 | \$1,392 | 86% | 0.3 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Healthcare | Cooling Unitary | Existing | building | 170,680 | 7.0% | 0.07 | 6 | \$14,919 | 82% | 0.2 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Healthcare | Cooling Unitary | New | building | 170,680 | 7.0% | 0.07 | 6 | \$14,919 | 82% | 0.2 |
| FE-Penn Power | Adding window shade film | No shade film | Healthcare | Cooling Unitary | Existing | building | 170,680 | 1.3% | 0.4 | 10 | \$2,077 | 12% | 0.5 |
| FE-Penn Power | Adding window shade film | No shade film | Healthcare | Cooling Unitary | New | building | 170,680 | 1.3% | 0.4 | 10 | \$2,077 | 13% | 0.5 |
| FE-Penn Power | Adding window shade screen | No shade screen | Healthcare | Cooling Unitary | Existing | building | 170,680 | 1.1% | 0.01 | 10 | \$803 | 12% | 0.8 |
| FE-Penn Power | Adding window shade screen | No shade screen | Healthcare | Cooling Unitary | New | building | 170,680 | 1.1% | 0.01 | 10 | \$803 | 13% | 0.8 |
| FE-Penn Power | Automated control system | Manual Controls | Healthcare | Cooling Unitary | Existing | building | 170,680 | 17% | 0.2 | 15 | \$186,854 | 51% | 0.1 |
| FE-Penn Power | Automated control system | Manual Controls | Healthcare | Cooling Unitary | New | building | 170,680 | 17% | 0.2 | 15 | \$186,854 | 94% | 0.1 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Healthcare | Cooling Unitary | Existing | building | 170,680 | 1.1% | 0.01 | 15 | \$20,566 | 71% | 0.0 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Healthcare | Cooling Unitary | New | building | 170,680 | 0.3% | 0.00 | 15 | \$19,549 | 94% | 0.0 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Healthcare | Cooling Unitary | Existing | building | 170,680 | 1.4% | 0.04 | 15 | \$1,356 | 20% | 0.8 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Healthcare | Cooling Unitary | New | building | 170,680 | 1.4% | 0.04 | 15 | \$1,356 | 10% | 0.8 |
| FE-Penn Power | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Healthcare | Cooling Unitary | Existing | building | 93,273 | 13% | 0.1 | 1 | \$894 | 73% | 0.7 |
| FE-Penn Power | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Healthcare | Cooling Unitary | New | building | 93,273 | 13% | 0.1 | 1 | \$894 | 73% | 0.7 |
| FE-Penn Power | ECM Motors for split systems | Std Shaded Pole Motor | Healthcare | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.4 |
| FE-Penn Power | ECM Motors for split systems | Std Shaded Pole Motor | Healthcare | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.4 |
| FE-Penn Power | Facility Commissioning | No Facility Commissioning | Healthcare | Cooling Unitary | New | building | 170,680 | 16% | 0.2 | 10 | \$5,062 | 89% | 1.8 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Healthcare | Cooling Unitary | Existing | building | 170,680 | 7.1% | 0.07 | 15 | \$757,097 | 25% | 0.0 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Healthcare | Cooling Unitary | New | building | 170,680 | 7.1% | 0.07 | 15 | \$757,097 | 35% | 0.0 |
| FE-Penn Power | Hi Eff HVAC System Design | No HVAC Design | Healthcare | Cooling Unitary | New | building | 170,680 | 8.6% | 0.09 | 10 | \$59,413 | 51% | 0.1 |
| FE-Penn Power | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Healthcare | Cooling Unitary | Existing | building | 170,680 | 5.0% | 0.05 | 5 | \$225 | 59% | 7.5 |
| FE-Penn Power | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Healthcare | Cooling Unitary | Existing | building | 170,680 | 0.1% | 0.04 | 5 | \$225 | 51% | 0.2 |
| FE-Penn Power | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Healthcare | Cooling Unitary | New | building | 170,680 | 0.1% | 0.04 | 5 | \$135 | 51% | 0.3 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Healthcare | Cooling Unitary | Existing | building | 170,680 | 2.1% | 0.02 | 10 | \$24,127 | 86% | 0.0 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Healthcare | Cooling Unitary | New | building | 170,680 | 2.1% | 0.02 | 10 | \$24,127 | 86% | 0.0 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) | Healthcare | Cooling Unitary | Existing | building | 170,680 | 2.0% | 0.02 | 11 | \$286 | 49% | 4.2 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Healthcare | Cooling Unitary | New | building | 170,680 | 1.7% | 0.02 | 11 | \$146 | 49% | 7.0 |
| FE-Penn Power | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Healthcare | Cooling Unitary | Early | unit | 730 | 19% | 0.05 | 15 | \$849 | 85% | 0.1 |
| FE-Penn Power | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Healthcare | Cooling Unitary | New | unit | 738 | 20% | 0.05 | 15 | \$356 | 85% | 0.3 |
| FE-Penn Power | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Healthcare | Cooling Unitary | ROB | unit | 738 | 20% | 0.05 | 15 | \$356 | 85% | 0.3 |
| FE-Penn Power | Re-Commissioning (Existing Construction) | No Re-Commissioning | Healthcare | Cooling Unitary | Existing | building | 170,680 | 16% | 0.2 | 5 | \$8,847 | 86% | 0.6 |
| FE-Penn Power | Room AC (w/ louvered sides) | Existing efficiency Room AC in Pennsylvania (2000 Federal Standards) | Healthcare | Cooling Unitary | Early | ton | 937 | 13% | 0.05 | 9 | \$348 | 82% | 0.2 |
| FE-Penn Power | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Healthcare | Cooling Unitary | New | ton | 850 | 4.5% | 0.01 | 9 | \$17 | 82% | 1.1 |
| FE-Penn Power | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Healthcare | Cooling Unitary | ROB | ton | 850 | 4.5% | 0.01 | 9 | \$17 | 82% | 1.1 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Healthcare | Cooling Unitary | Existing | building | 170,680 | 2.6% | 0.03 | 15 | \$5,624 | 26% | 0.3 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Healthcare | Cooling Unitary | New | building | 170,680 | 0.1% | 0.00 | 15 | \$4,314 | 94% | 0.0 |
| FE-Penn Power | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Healthcare | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 0.9 |
| FE-Penn Power | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Healthcare | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.0 |
| FE-Penn Power | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Healthcare | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.0 |
| FE-Penn Power | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Healthcare | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 0% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|--|---|------------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Healthcare | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-Penn Power | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Healthcare | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-Penn Power | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Healthcare | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 75% | 0.2 |
| FE-Penn Power | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Healthcare | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 75% | 0.2 |
| FE-Penn Power | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Healthcare | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.3 |
| FE-Penn Power | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Healthcare | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 1.7 |
| FE-Penn Power | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Healthcare | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.3 |
| FE-Penn Power | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Healthcare | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 1.7 |
| FE-Penn Power | Photocell Controls (Outdoor) | Lighting w/ No Controls | Healthcare | Ext. Lighting | Existing | building | 8,905 | 28% | 0.3 | 8 | \$5,444 | 88% | 0.2 |
| FE-Penn Power | Photocell Controls (Outdoor) | Lighting w/ No Controls | Healthcare | Ext. Lighting | New | building | 8,905 | 28% | 0.3 | 8 | \$5,444 | 0% | 0.2 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Healthcare | Heat Pump | Existing | building | 19,925 | 6.9% | 0.07 | 6 | \$14,919 | 82% | 0.0 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Healthcare | Heat Pump | New | building | 19,925 | 6.9% | 0.07 | 6 | \$14,919 | 82% | 0.0 |
| FE-Penn Power | Adding window shade film | No shade film | Healthcare | Heat Pump | Existing | building | 19,925 | 3.9% | 0.4 | 10 | \$242 | 12% | 1.9 |
| FE-Penn Power | Adding window shade film | No shade film | Healthcare | Heat Pump | New | building | 19,925 | 3.9% | 0.4 | 10 | \$242 | 12% | 1.9 |
| FE-Penn Power | Adding window shade screen | No shade screen | Healthcare | Heat Pump | Existing | building | 19,925 | 0.3% | 0.01 | 10 | \$31 | 12% | 0.8 |
| FE-Penn Power | Adding window shade screen | No shade screen | Healthcare | Heat Pump | New | building | 19,925 | 0.3% | 0.01 | 10 | \$31 | 12% | 0.8 |
| FE-Penn Power | Automated control system | Manual Controls | Healthcare | Heat Pump | Existing | building | 19,925 | 17% | 0.2 | 15 | \$21,813 | 51% | 0.1 |
| FE-Penn Power | Automated control system | Manual Controls | Healthcare | Heat Pump | New | building | 19,925 | 17% | 0.2 | 15 | \$21,813 | 94% | 0.1 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Healthcare | Heat Pump | Existing | building | 19,925 | 1.0% | 0.01 | 15 | \$20,566 | 71% | 0.0 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Healthcare | Heat Pump | New | building | 19,925 | 0.3% | 0.00 | 15 | \$19,549 | 94% | 0.0 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Healthcare | Heat Pump | Existing | building | 19,925 | 4.0% | 0.04 | 15 | \$158 | 12% | 2.2 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Healthcare | Heat Pump | New | building | 19,925 | 4.0% | 0.04 | 15 | \$158 | 6% | 2.2 |
| FE-Penn Power | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Healthcare | Heat Pump | Early | heat pump | 1,926 | 12% | 0.02 | 15 | \$4,070 | 83% | 0.0 |
| FE-Penn Power | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Healthcare | Heat Pump | New | heat pump | 1,829 | 7.8% | 0.01 | 15 | \$1,097 | 83% | 0.1 |
| FE-Penn Power | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Healthcare | Heat Pump | ROB | heat pump | 1,829 | 7.8% | 0.01 | 15 | \$1,097 | 83% | 0.1 |
| FE-Penn Power | Facility Commissioning | No Facility Commissioning | Healthcare | Heat Pump | New | building | 19,925 | 16% | 0.2 | 10 | \$67,032 | 89% | 0.0 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Healthcare | Heat Pump | Existing | building | 19,925 | 7.0% | 0.07 | 15 | \$88,382 | 25% | 0.0 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Healthcare | Heat Pump | New | building | 19,925 | 7.0% | 0.07 | 15 | \$88,382 | 35% | 0.0 |
| FE-Penn Power | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Healthcare | Heat Pump | Early | heat pump | 18,494 | 16% | 0.3 | 15 | \$91,117 | 19% | 0.0 |
| FE-Penn Power | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Healthcare | Heat Pump | New | heat pump | 17,817 | 13% | 0.2 | 15 | \$33,927 | 19% | 0.0 |
| FE-Penn Power | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Healthcare | Heat Pump | ROB | heat pump | 17,817 | 13% | 0.2 | 15 | \$33,927 | 19% | 0.0 |
| FE-Penn Power | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Healthcare | Heat Pump | Early | heat pump | 18,494 | 16% | 0.3 | 15 | \$58,356 | 19% | 0.0 |
| FE-Penn Power | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Healthcare | Heat Pump | New | heat pump | 17,817 | 13% | 0.2 | 15 | \$1,167 | 19% | 0.9 |
| FE-Penn Power | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Healthcare | Heat Pump | ROB | heat pump | 17,817 | 13% | 0.2 | 15 | \$1,167 | 19% | 0.9 |
| FE-Penn Power | Hi Eff HVAC System Design | No HVAC Design | Healthcare | Heat Pump | New | building | 19,925 | 8.6% | 0.09 | 10 | \$651,928 | 51% | 0.0 |
| FE-Penn Power | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Healthcare | Heat Pump | Early | heat pump | 4,782 | 17% | 0.07 | 12 | \$4,298 | 81% | 0.1 |
| FE-Penn Power | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Healthcare | Heat Pump | Early | heat pump | 4,782 | 25% | 0.1 | 12 | \$5,883 | 81% | 0.1 |
| FE-Penn Power | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Healthcare | Heat Pump | New | heat pump | 4,558 | 12% | 0.05 | 12 | \$852 | 81% | 0.3 |
| FE-Penn Power | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Healthcare | Heat Pump | New | heat pump | 4,558 | 22% | 0.09 | 12 | \$2,437 | 81% | 0.2 |
| FE-Penn Power | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Healthcare | Heat Pump | ROB | heat pump | 4,558 | 12% | 0.05 | 12 | \$852 | 81% | 0.3 |
| FE-Penn Power | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Healthcare | Heat Pump | ROB | heat pump | 4,558 | 22% | 0.09 | 12 | \$2,437 | 81% | 0.2 |
| FE-Penn Power | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Healthcare | Heat Pump | Existing | building | 19,925 | 5.0% | 0.09 | 5 | \$90 | 51% | 2.3 |
| FE-Penn Power | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Healthcare | Heat Pump | New | building | 19,925 | 5.0% | 0.09 | 5 | \$90 | 51% | 2.3 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Healthcare | Heat Pump | Existing | building | 19,925 | 2.1% | 0.02 | 10 | \$21,481 | 81% | 0.0 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Healthcare | Heat Pump | New | building | 19,925 | 2.1% | 0.02 | 10 | \$21,481 | 81% | 0.0 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Healthcare | Heat Pump | Existing | building | 19,925 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.6 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Healthcare | Heat Pump | New | building | 19,925 | 2.1% | 0.02 | 11 | \$146 | 49% | 1.0 |
| FE-Penn Power | Re-Commissioning (Existing Construction) | No Re-Commissioning | Healthcare | Heat Pump | Existing | building | 19,925 | 16% | 0.2 | 5 | \$8,847 | 86% | 0.1 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Healthcare | Heat Pump | Existing | building | 19,925 | 2.6% | 0.03 | 15 | \$5,624 | 26% | 0.0 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Healthcare | Heat Pump | New | building | 19,925 | 0.1% | 0.00 | 15 | \$4,314 | 94% | 0.0 |
| FE-Penn Power | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Healthcare | Heat Pump | Early | heat pump | 7,665 | 35% | 0.2 | 15 | \$35,347 | 28% | 0.0 |
| FE-Penn Power | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Healthcare | Heat Pump | New | heat pump | 7,280 | 31% | 0.2 | 15 | \$15,739 | 28% | 0.1 |
| FE-Penn Power | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Healthcare | Heat Pump | ROB | heat pump | 7,280 | 31% | 0.2 | 15 | \$15,739 | 28% | 0.1 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | Early | Fixture | 620 | 9.6% | 0.01 | 13 | \$850 | 39% | 0.0 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Healthcare | High Bay Lighting | Early | Fixture | 619 | 9.5% | 0.01 | 13 | \$850 | 28% | 0.0 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Healthcare | High Bay Lighting | Early | Fixture | 956 | 41% | 0.08 | 13 | \$850 | 36% | 0.3 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | New | Fixture | 471 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Healthcare | High Bay Lighting | New | Fixture | 438 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Healthcare | High Bay Lighting | New | Fixture | 726 | 41% | 0.06 | 13 | \$397 | 36% | 0.4 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 620 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 577 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|---|------------|-------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 956 | 41% | 0.08 | 13 | \$397 | 36% | 0.5 |
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | Early | Fixture | 1,203 | 19% | 0.05 | 13 | \$851 | 38% | 0.1 |
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Healthcare | High Bay Lighting | Early | Fixture | 1,218 | 20% | 0.05 | 13 | \$851 | 38% | 0.2 |
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | Early | Fixture | 3,543 | 73% | 0.5 | 13 | \$851 | 38% | 1.6 |
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | New | Fixture | 914 | 19% | 0.04 | 13 | \$372 | 38% | 0.3 |
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | New | Fixture | 2,693 | 73% | 0.4 | 13 | \$383 | 38% | 2.7 |
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 1,203 | 19% | 0.05 | 13 | \$372 | 38% | 0.3 |
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 3,543 | 73% | 0.5 | 13 | \$383 | 38% | 3.6 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | Early | Fixture | 1,203 | 25% | 0.06 | 13 | \$554 | 29% | 0.3 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Healthcare | High Bay Lighting | Early | Fixture | 1,181 | 23% | 0.06 | 13 | \$554 | 28% | 0.3 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | Early | Fixture | 3,543 | 74% | 0.6 | 13 | \$554 | 36% | 2.6 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | New | Fixture | 914 | 25% | 0.05 | 13 | \$75 | 29% | 1.6 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | New | Fixture | 2,693 | 74% | 0.4 | 13 | \$86 | 36% | 12.6 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 1,203 | 25% | 0.06 | 13 | \$75 | 29% | 2.1 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 3,543 | 74% | 0.6 | 13 | \$86 | 36% | 16.5 |
| FE-Penn Power | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Healthcare | High Bay Lighting | Early | Fixture | 314 | 0.2% | 0.00 | 13 | \$835 | 38% | 0.0 |
| FE-Penn Power | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Healthcare | High Bay Lighting | Early | Fixture | 676 | 54% | 0.08 | 13 | \$835 | 38% | 0.2 |
| FE-Penn Power | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Healthcare | High Bay Lighting | New | Fixture | 514 | 54% | 0.06 | 13 | \$382 | 38% | 0.4 |
| FE-Penn Power | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 676 | 54% | 0.08 | 13 | \$382 | 38% | 0.5 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | Early | Fixture | 1,533 | 18% | 0.06 | 13 | \$487 | 25% | 0.3 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Healthcare | High Bay Lighting | Early | Fixture | 1,603 | 22% | 0.07 | 13 | \$487 | 28% | 0.4 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | Early | Fixture | 3,543 | 65% | 0.5 | 13 | \$487 | 36% | 2.5 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | New | Fixture | 1,165 | 18% | 0.05 | 13 | \$16 | 25% | 7.0 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | New | Fixture | 2,693 | 65% | 0.4 | 13 | \$18 | 36% | 50.9 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 1,533 | 18% | 0.06 | 13 | \$16 | 25% | 9.3 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 3,543 | 65% | 0.5 | 13 | \$18 | 36% | 67.0 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | Early | Fixture | 1,533 | 1.5% | 0.00 | 13 | \$557 | 19% | 0.0 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Healthcare | High Bay Lighting | Early | Fixture | 1,578 | 4.3% | 0.01 | 13 | \$557 | 19% | 0.1 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | Early | Fixture | 3,543 | 57% | 0.4 | 13 | \$557 | 19% | 2.0 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | New | Fixture | 1,165 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | New | Fixture | 2,693 | 57% | 0.3 | 13 | \$88 | 19% | 9.4 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 1,533 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 3,543 | 57% | 0.4 | 13 | \$88 | 19% | 12.4 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Healthcare | High Bay Lighting | Early | Fixture | 651 | 29% | 0.03 | 13 | \$492 | 71% | 0.2 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | Early | Fixture | 544 | 15% | 0.01 | 13 | \$492 | 95% | 0.1 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Healthcare | High Bay Lighting | Early | Fixture | 808 | 43% | 0.05 | 13 | \$492 | 95% | 0.3 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Healthcare | High Bay Lighting | Early | Fixture | 749 | 38% | 0.04 | 13 | \$492 | 95% | 0.3 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | New | Fixture | 414 | 15% | 0.01 | 13 | \$25 | 95% | 1.2 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Healthcare | High Bay Lighting | New | Fixture | 614 | 43% | 0.04 | 13 | \$51 | 95% | 2.5 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 544 | 15% | 0.01 | 13 | \$25 | 95% | 1.6 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 808 | 43% | 0.05 | 13 | \$51 | 95% | 3.3 |
| FE-Penn Power | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Healthcare | High Bay Lighting | Early | lamp | 107 | 16% | 0.00 | 10 | \$7.7 | 99% | 1.0 |
| FE-Penn Power | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Healthcare | High Bay Lighting | New | lamp | 64 | 13% | 0.00 | 10 | \$1.6 | 91% | 2.3 |
| FE-Penn Power | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Healthcare | High Bay Lighting | ROB | lamp | 103 | 13% | 0.00 | 10 | \$1.6 | 91% | 3.7 |
| FE-Penn Power | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | Early | Fixture | 3,626 | 23% | 0.2 | 13 | \$613 | 5% | 0.7 |
| FE-Penn Power | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Healthcare | High Bay Lighting | Early | Fixture | 2,849 | 1.6% | 0.01 | 13 | \$613 | 28% | 0.0 |
| FE-Penn Power | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | Early | Fixture | 7,087 | 60% | 0.9 | 13 | \$613 | 18% | 3.8 |
| FE-Penn Power | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | New | Fixture | 2,756 | 23% | 0.1 | 13 | \$96 | 5% | 3.5 |
| FE-Penn Power | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 3,626 | 23% | 0.2 | 13 | \$96 | 5% | 4.6 |
| FE-Penn Power | Auto Off Time Switch | Lighting w/ No Controls | Healthcare | High Bay Lighting | Existing | building | 11,854 | 24% | 0.2 | 8 | \$1,106 | 13% | 0.8 |
| FE-Penn Power | Auto Off Time Switch | Lighting w/ No Controls | Healthcare | High Bay Lighting | New | building | 11,854 | 6.9% | 0.07 | 8 | \$1,106 | 0% | 0.2 |
| FE-Penn Power | Central Lighting Control System | Lighting w/ No Controls | Healthcare | High Bay Lighting | Existing | building | 11,854 | 38% | 0.4 | 8 | \$1,106 | 13% | 1.3 |
| FE-Penn Power | Central Lighting Control System | Lighting w/ No Controls | Healthcare | High Bay Lighting | New | building | 11,854 | 14% | 0.1 | 8 | \$1,106 | 13% | 0.5 |
| FE-Penn Power | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Healthcare | High Bay Lighting | New | building | 11,854 | 10% | 0.1 | 15 | \$32,147 | 32% | 0.0 |
| FE-Penn Power | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Healthcare | High Bay Lighting | New | building | 11,854 | 15% | 0.2 | 15 | \$80,367 | 32% | 0.0 |
| FE-Penn Power | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Healthcare | High Bay Lighting | New | building | 11,854 | 30% | 0.3 | 15 | \$115,193 | 32% | 0.0 |
| FE-Penn Power | Indoor Daylight Sensors | Lighting w/ No Controls | Healthcare | High Bay Lighting | Existing | building | 11,854 | 28% | 0.3 | 8 | \$5,444 | 13% | 0.2 |
| FE-Penn Power | Indoor Daylight Sensors | Lighting w/ No Controls | Healthcare | High Bay Lighting | New | building | 11,854 | 4.0% | 0.04 | 8 | \$5,444 | 0% | 0.0 |
| FE-Penn Power | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | Early | Fixture | 3,626 | 92% | 0.7 | 13 | \$1,916 | 95% | 0.9 |
| FE-Penn Power | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | Early | Fixture | 7,087 | 96% | 1.4 | 13 | \$1,916 | 95% | 1.9 |
| FE-Penn Power | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | New | Fixture | 2,756 | 92% | 0.5 | 13 | \$1,468 | 95% | 0.9 |
| FE-Penn Power | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | New | Fixture | 5,386 | 96% | 1.1 | 13 | \$1,149 | 95% | 2.4 |
| FE-Penn Power | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 3,626 | 92% | 0.7 | 13 | \$1,468 | 95% | 1.2 |
| FE-Penn Power | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 7,087 | 96% | 1.4 | 13 | \$1,149 | 95% | 3.2 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | Early | Fixture | 1,203 | 67% | 0.2 | 13 | \$960 | 95% | 0.4 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Healthcare | High Bay Lighting | Early | Fixture | 3,543 | 89% | 0.7 | 13 | \$960 | 95% | 1.8 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Healthcare | High Bay Lighting | Early | Fixture | 972 | 59% | 0.1 | 13 | \$960 | 95% | 0.3 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | New | Fixture | 914 | 67% | 0.1 | 13 | \$480 | 95% | 0.7 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Healthcare | High Bay Lighting | New | Fixture | 2,693 | 89% | 0.5 | 13 | \$491 | 95% | 2.6 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Healthcare | High Bay Lighting | New | Fixture | 739 | 59% | 0.09 | 13 | \$406 | 95% | 0.6 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 1,203 | 67% | 0.2 | 13 | \$480 | 95% | 0.9 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 3,543 | 89% | 0.7 | 13 | \$491 | 95% | 3.4 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 972 | 59% | 0.1 | 13 | \$406 | 95% | 0.8 |
| FE-Penn Power | Occupancy Sensor | Lighting w/ No Controls | Healthcare | High Bay Lighting | Existing | building | 11,854 | 24% | 0.2 | 8 | \$1,666 | 11% | 0.5 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|--|------------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Occupancy Sensor | Lighting w/ No Controls | Healthcare | High Bay Lighting | New | building | 11,854 | 6.9% | 0.07 | 8 | \$1,666 | 0% | 0.2 |
| FE-Penn Power | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Healthcare | High Bay Lighting | Existing | building | 11,854 | 28% | 0.3 | 8 | \$5,444 | 11% | 0.2 |
| FE-Penn Power | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Healthcare | High Bay Lighting | New | building | 11,854 | 4.0% | 0.04 | 8 | \$5,444 | 0% | 0.0 |
| FE-Penn Power | Time Clock Control | Lighting w/ No Controls | Healthcare | High Bay Lighting | Existing | building | 11,854 | 28% | 0.3 | 8 | \$1,106 | 13% | 1.0 |
| FE-Penn Power | Time Clock Control | Lighting w/ No Controls | Healthcare | High Bay Lighting | New | building | 11,854 | 4.0% | 0.04 | 8 | \$1,106 | 0% | 0.1 |
| FE-Penn Power | Auto Off Time Switch | Lighting w/ No Controls | Healthcare | Lin. Fluor. Lighting | Existing | building | 291,985 | 24% | 0.2 | 8 | \$1,106 | 13% | 17.6 |
| FE-Penn Power | Auto Off Time Switch | Lighting w/ No Controls | Healthcare | Lin. Fluor. Lighting | New | building | 291,985 | 7.0% | 0.07 | 8 | \$1,106 | 0% | 5.1 |
| FE-Penn Power | Central Lighting Control System | Lighting w/ No Controls | Healthcare | Lin. Fluor. Lighting | Existing | building | 291,985 | 38% | 0.4 | 8 | \$1,106 | 12% | 27.9 |
| FE-Penn Power | Central Lighting Control System | Lighting w/ No Controls | Healthcare | Lin. Fluor. Lighting | New | building | 291,985 | 14% | 0.1 | 8 | \$1,106 | 12% | 10.3 |
| FE-Penn Power | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Healthcare | Lin. Fluor. Lighting | New | building | 291,985 | 10% | 0.1 | 15 | \$32,147 | 32% | 0.4 |
| FE-Penn Power | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Healthcare | Lin. Fluor. Lighting | New | building | 291,985 | 15% | 0.2 | 15 | \$80,367 | 32% | 0.2 |
| FE-Penn Power | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Healthcare | Lin. Fluor. Lighting | New | building | 291,985 | 30% | 0.3 | 15 | \$115,193 | 32% | 0.3 |
| FE-Penn Power | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Healthcare | Lin. Fluor. Lighting | Early | Lamp | 215 | 38% | 0.02 | 10 | \$7.3 | 94% | 5.0 |
| FE-Penn Power | Indoor Daylight Sensors | Lighting w/ No Controls | Healthcare | Lin. Fluor. Lighting | Existing | building | 291,985 | 28% | 0.3 | 8 | \$5,444 | 13% | 4.2 |
| FE-Penn Power | Indoor Daylight Sensors | Lighting w/ No Controls | Healthcare | Lin. Fluor. Lighting | New | building | 291,985 | 4.1% | 0.04 | 8 | \$5,444 | 0% | 0.6 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | Early | Lamp | 77 | 19% | 0.00 | 15 | \$35 | 94% | 0.3 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 40W T12 Lamp, Magnetic Ballast | Healthcare | Lin. Fluor. Lighting | Early | Lamp | 169 | 63% | 0.02 | 15 | \$35 | 94% | 1.8 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | Early | Lamp | 95 | 34% | 0.01 | 15 | \$35 | 94% | 0.6 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | Early | Lamp | 92 | 32% | 0.01 | 15 | \$35 | 94% | 0.5 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | New | Lamp | 59 | 19% | 0.00 | 15 | \$28 | 94% | 0.2 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | New | Lamp | 70 | 32% | 0.00 | 15 | \$29 | 94% | 0.5 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | New | Lamp | 72 | 34% | 0.01 | 15 | \$22 | 94% | 0.7 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | New | Lamp | 70 | 32% | 0.00 | 15 | \$29 | 94% | 0.5 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | ROB | Lamp | 77 | 19% | 0.00 | 15 | \$28 | 94% | 0.3 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | ROB | Lamp | 92 | 32% | 0.01 | 15 | \$29 | 94% | 0.6 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | ROB | Lamp | 95 | 34% | 0.01 | 15 | \$22 | 94% | 0.9 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | ROB | Lamp | 92 | 32% | 0.01 | 15 | \$29 | 94% | 0.6 |
| FE-Penn Power | Occupancy Sensor | Lighting w/ No Controls | Healthcare | Lin. Fluor. Lighting | Existing | building | 291,985 | 24% | 0.2 | 8 | \$1,666 | 12% | 11.7 |
| FE-Penn Power | Occupancy Sensor | Lighting w/ No Controls | Healthcare | Lin. Fluor. Lighting | New | building | 291,985 | 7.0% | 0.07 | 8 | \$1,666 | 0% | 3.4 |
| FE-Penn Power | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Healthcare | Lin. Fluor. Lighting | Existing | building | 291,985 | 28% | 0.3 | 8 | \$5,444 | 11% | 4.2 |
| FE-Penn Power | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Healthcare | Lin. Fluor. Lighting | New | building | 291,985 | 4.1% | 0.04 | 8 | \$5,444 | 0% | 0.6 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 40W T12 w/ Magnetic Ballast | Healthcare | Lin. Fluor. Lighting | Early | Lamp | 215 | 54% | 0.02 | 10 | \$9.1 | 94% | 5.7 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | Early | Lamp | 138 | 28% | 0.01 | 10 | \$9.1 | 24% | 1.9 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | Early | Lamp | 133 | 26% | 0.01 | 10 | \$9.1 | 94% | 1.7 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | New | Lamp | 101 | 26% | 0.01 | 10 | \$2.5 | 94% | 4.6 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | New | Lamp | 101 | 26% | 0.01 | 10 | \$2.5 | 94% | 4.6 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | New | Lamp | 105 | 28% | 0.01 | 10 | \$2.5 | 24% | 5.2 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | New | Lamp | 101 | 26% | 0.01 | 10 | \$2.5 | 94% | 4.6 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | ROB | Lamp | 133 | 26% | 0.01 | 10 | \$2.5 | 94% | 6.1 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | ROB | Lamp | 133 | 26% | 0.01 | 10 | \$2.5 | 94% | 6.1 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | ROB | Lamp | 138 | 28% | 0.01 | 10 | \$2.5 | 24% | 6.8 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | ROB | Lamp | 133 | 26% | 0.01 | 10 | \$2.5 | 94% | 6.1 |
| FE-Penn Power | T8 Lamp (any length) Electronic Ballast | Standard T12 lamp (any length) | Healthcare | Lin. Fluor. Lighting | Early | Lamp | 253 | 42% | 0.02 | 10 | \$14 | 94% | 3.4 |
| FE-Penn Power | Time Clock Control | Lighting w/ No Controls | Healthcare | Lin. Fluor. Lighting | Existing | building | 291,985 | 28% | 0.3 | 8 | \$1,106 | 14% | 20.6 |
| FE-Penn Power | Time Clock Control | Lighting w/ No Controls | Healthcare | Lin. Fluor. Lighting | New | building | 291,985 | 4.1% | 0.04 | 8 | \$1,106 | 0% | 3.0 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | Early | motor | 3,977 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | Early | motor | 3,977 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | Early | motor | 3,977 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | Early | motor | 3,977 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | Early | motor | 3,977 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | New | motor | 3,856 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | New | motor | 3,856 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | New | motor | 3,856 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | New | motor | 3,856 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | ROB | motor | 3,856 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | ROB | motor | 3,856 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | ROB | motor | 3,856 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | ROB | motor | 3,856 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-Penn Power | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | Early | motor | 5,864 | 3.0% | 0.02 | 15 | \$402 | 76% | 0.2 |
| FE-Penn Power | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | Early | motor | 5,864 | 3.0% | 0.02 | 15 | \$402 | 76% | 0.2 |
| FE-Penn Power | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | Early | motor | 5,864 | 3.0% | 0.02 | 15 | \$402 | 76% | 0.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|--|------------|---------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | New | motor | 208,208 | 0.5% | 0.1 | 15 | \$431 | 70% | 1.3 |
| FE-Penn Power | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | ROB | motor | 208,208 | 0.5% | 0.1 | 15 | \$431 | 70% | 1.3 |
| FE-Penn Power | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | ROB | motor | 208,208 | 0.5% | 0.1 | 15 | \$431 | 70% | 1.3 |
| FE-Penn Power | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | ROB | motor | 208,208 | 0.5% | 0.1 | 15 | \$431 | 70% | 1.3 |
| FE-Penn Power | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | ROB | motor | 208,208 | 0.5% | 0.1 | 15 | \$431 | 70% | 1.3 |
| FE-Penn Power | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | Early | motor | 27,835 | 2.9% | 0.1 | 15 | \$802 | 83% | 0.5 |
| FE-Penn Power | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | Early | motor | 27,835 | 2.9% | 0.1 | 15 | \$802 | 83% | 0.5 |
| FE-Penn Power | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | Early | motor | 27,835 | 2.9% | 0.1 | 15 | \$802 | 83% | 0.5 |
| FE-Penn Power | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | Early | motor | 27,835 | 2.9% | 0.1 | 15 | \$802 | 83% | 0.5 |
| FE-Penn Power | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | Early | motor | 27,835 | 2.9% | 0.1 | 15 | \$802 | 83% | 0.5 |
| FE-Penn Power | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | New | motor | 27,170 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.6 |
| FE-Penn Power | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | New | motor | 27,170 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.6 |
| FE-Penn Power | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | New | motor | 27,170 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.6 |
| FE-Penn Power | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | ROB | motor | 27,170 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.6 |
| FE-Penn Power | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | ROB | motor | 27,170 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.6 |
| FE-Penn Power | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | ROB | motor | 27,170 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.6 |
| FE-Penn Power | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | ROB | motor | 27,170 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.6 |
| FE-Penn Power | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | ROB | motor | 27,170 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.6 |
| FE-Penn Power | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | Early | motor | 262,423 | 1.3% | 0.5 | 15 | \$3,955 | 61% | 0.5 |
| FE-Penn Power | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | Early | motor | 262,423 | 1.3% | 0.5 | 15 | \$3,955 | 61% | 0.5 |
| FE-Penn Power | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | Early | motor | 262,423 | 1.3% | 0.5 | 15 | \$3,955 | 61% | 0.5 |
| FE-Penn Power | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | Early | motor | 262,423 | 1.3% | 0.5 | 15 | \$3,955 | 61% | 0.5 |
| FE-Penn Power | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | New | motor | 260,260 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.3 |
| FE-Penn Power | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | New | motor | 260,260 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.2 |
| FE-Penn Power | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | New | motor | 260,260 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.2 |
| FE-Penn Power | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | New | motor | 260,260 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.2 |
| FE-Penn Power | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | ROB | motor | 260,260 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.3 |
| FE-Penn Power | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | ROB | motor | 260,260 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.3 |
| FE-Penn Power | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | ROB | motor | 260,260 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.2 |
| FE-Penn Power | ASD HVAC Fan | Std. HVAC Fan | Healthcare | Motors | New | measure | 106,370 | 9.1% | 1.1 | 15 | \$38,470 | 85% | 0.1 |
| FE-Penn Power | ASD HVAC Fan | Std. HVAC Fan | Healthcare | Motors | ROB | measure | 106,370 | 9.1% | 1.1 | 15 | \$38,470 | 85% | 0.1 |
| FE-Penn Power | CO sensors for parking garage exhaust fans | No CO Sensors | Healthcare | Motors | Existing | building | 19,503 | 19% | 0.2 | 8 | \$1,023 | 4% | 1.0 |
| FE-Penn Power | CO sensors for parking garage exhaust fans | No CO Sensors | Healthcare | Motors | New | building | 19,503 | 19% | 0.2 | 8 | \$1,023 | 4% | 1.0 |
| FE-Penn Power | demand controlled ventilation | Absence of Demand Controlled Ventilation | Healthcare | Motors | Early | measure | 106,370 | 5.9% | 0.7 | 10 | \$61,325 | 92% | 0.0 |
| FE-Penn Power | demand controlled ventilation | Office building thermostat | Healthcare | Motors | New | measure | 106,370 | 5.9% | 0.7 | 10 | \$45,787 | 92% | 0.1 |
| FE-Penn Power | demand controlled ventilation | Office building thermostat | Healthcare | Motors | ROB | measure | 106,370 | 5.9% | 0.7 | 10 | \$45,787 | 92% | 0.1 |
| FE-Penn Power | Downsizing motor during retrofit | Larger hp standard motor | Healthcare | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 17.6 |
| FE-Penn Power | Downsizing motor during retrofit | Larger hp standard motor | Healthcare | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 18.1 |
| FE-Penn Power | Downsizing motor during retrofit | Larger hp standard motor | Healthcare | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 18.3 |
| FE-Penn Power | Downsizing motor during retrofit | Larger hp standard motor | Healthcare | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 18.7 |
| FE-Penn Power | Downsizing motor during retrofit | Larger hp standard motor | Healthcare | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 19.2 |
| FE-Penn Power | Downsizing motor during retrofit | Larger hp standard motor | Healthcare | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 17.7 |
| FE-Penn Power | Downsizing motor during retrofit | Larger hp standard motor | Healthcare | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 18.0 |
| FE-Penn Power | Downsizing motor during retrofit | Larger hp standard motor | Healthcare | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 18.5 |
| FE-Penn Power | Downsizing motor during retrofit | Larger hp standard motor | Healthcare | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 18.9 |
| FE-Penn Power | Downsizing motor during retrofit | Larger hp standard motor | Healthcare | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 19.0 |
| FE-Penn Power | Escalator Motor Controller | Constant power control | Healthcare | Motors | New | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 67% | 4.8 |
| FE-Penn Power | Escalator Motor Controller | Constant power control | Healthcare | Motors | ROB | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 67% | 4.8 |
| FE-Penn Power | Fan Motor - correct sizing | Incorrect Fan Motor Sizing | Healthcare | Motors | ROB | measure | 106,370 | 2.9% | 0.4 | 15 | \$50 | 92% | 30.5 |
| FE-Penn Power | Variable Speed Drive Control, 15HP | Existing Motors w/out VSD Drive | Healthcare | Motors | Early | motor | 54,340 | 70% | 5.0 | 15 | \$731 | 86% | 26.7 |
| FE-Penn Power | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Healthcare | Motors | New | motor | 53,171 | 72% | 5.0 | 15 | \$731 | 86% | 26.6 |
| FE-Penn Power | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Healthcare | Motors | ROB | motor | 53,171 | 72% | 5.0 | 15 | \$731 | 86% | 26.6 |
| FE-Penn Power | Variable Speed Drive Control, 40HP | Existing Motors w/out VSD Drive | Healthcare | Motors | Early | motor | 141,791 | 71% | 13.3 | 15 | \$4,666 | 86% | 11.0 |
| FE-Penn Power | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Healthcare | Motors | New | motor | 140,133 | 72% | 13.3 | 15 | \$4,666 | 86% | 11.0 |
| FE-Penn Power | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Healthcare | Motors | ROB | motor | 140,133 | 72% | 13.3 | 15 | \$4,666 | 86% | 11.0 |
| FE-Penn Power | Variable Speed Drive Control, 5HP | Existing Motors w/out VFD Drive | Healthcare | Motors | Early | motor | 18,838 | 70% | 1.7 | 15 | \$2,243 | 86% | 3.0 |
| FE-Penn Power | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Healthcare | Motors | New | motor | 18,417 | 72% | 1.7 | 15 | \$2,243 | 86% | 3.0 |
| FE-Penn Power | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Healthcare | Motors | ROB | motor | 18,417 | 72% | 1.7 | 15 | \$2,243 | 86% | 3.0 |
| FE-Penn Power | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Healthcare | Motors | Early | motor | 141,406 | 0.8% | 0.1 | 15 | \$268 | 40% | 2.1 |
| FE-Penn Power | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Healthcare | Motors | New | motor | 141,406 | 0.8% | 0.1 | 15 | \$268 | 40% | 2.1 |
| FE-Penn Power | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Healthcare | Motors | ROB | motor | 141,406 | 0.8% | 0.1 | 15 | \$268 | 40% | 2.1 |
| FE-Penn Power | VFD on Chilled Water Pump | Motor w/out VFD Drive | Healthcare | Motors | Early | motor | 43,650 | 54% | 2.7 | 15 | \$2,903 | 86% | 4.1 |
| FE-Penn Power | VFD on Chilled Water Pump | Motor w/out VFD Drive | Healthcare | Motors | New | motor | 42,833 | 55% | 2.7 | 15 | \$2,843 | 86% | 4.1 |
| FE-Penn Power | VFD on Chilled Water Pump | Motor w/out VFD Drive | Healthcare | Motors | ROB | motor | 42,833 | 55% | 2.7 | 15 | \$2,843 | 86% | 4.1 |
| FE-Penn Power | VFD on Condenser Water Pump | Motor w/out VFD Drive | Healthcare | Motors | Early | motor | 35,240 | 32% | 3.2 | 15 | \$2,903 | 86% | 2.5 |
| FE-Penn Power | VFD on Condenser Water Pump | Motor w/out VFD Drive | Healthcare | Motors | New | motor | 34,581 | 33% | 3.1 | 15 | \$2,843 | 86% | 2.5 |
| FE-Penn Power | VFD on Condenser Water Pump | Motor w/out VFD Drive | Healthcare | Motors | ROB | motor | 34,581 | 33% | 3.1 | 15 | \$2,843 | 86% | 2.5 |
| FE-Penn Power | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Healthcare | Motors | Early | motor | 67,827 | 56% | 0.00 | 15 | \$2,903 | 86% | 5.3 |
| FE-Penn Power | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Healthcare | Motors | New | motor | 66,558 | 57% | 0.00 | 15 | \$2,843 | 86% | 5.4 |
| FE-Penn Power | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Healthcare | Motors | ROB | motor | 66,558 | 57% | 0.00 | 15 | \$2,843 | 86% | 5.4 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|--|------------|---------------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | VFD on HVAC Fan | Motor w/out VFD | Healthcare | Motors | Early | motor | 43,650 | 70% | 3.4 | 15 | \$2,903 | 86% | 5.2 |
| FE-Penn Power | VFD on HVAC Fan | Motor w/out VFD | Healthcare | Motors | New | motor | 42,833 | 72% | 3.3 | 15 | \$2,843 | 86% | 5.3 |
| FE-Penn Power | VFD on HVAC Fan | Motor w/out VFD | Healthcare | Motors | ROB | motor | 42,833 | 72% | 3.3 | 15 | \$2,843 | 86% | 5.3 |
| FE-Penn Power | Elevators | Std. Eff Elevator | Healthcare | Other | ROB | measure | 89,016 | 2.0% | 0.7 | 15 | \$2,110 | 81% | 0.6 |
| FE-Penn Power | Variable Speed Drives on Process Equipment | Constant speed control | Healthcare | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 9.2 |
| FE-Penn Power | Variable Speed Drives on Process Equipment | Constant speed control | Healthcare | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 9.2 |
| FE-Penn Power | Auto Off Time Switch | Lighting w/ No Controls | Healthcare | Other Int. Lighting | Existing | building | 85,662 | 24% | 0.2 | 8 | \$1,106 | 13% | 5.3 |
| FE-Penn Power | Auto Off Time Switch | Lighting w/ No Controls | Healthcare | Other Int. Lighting | New | building | 85,662 | 7.0% | 0.07 | 8 | \$1,106 | 0% | 1.5 |
| FE-Penn Power | Central Lighting Control System | Lighting w/ No Controls | Healthcare | Other Int. Lighting | Existing | building | 85,662 | 38% | 0.4 | 8 | \$1,106 | 13% | 8.3 |
| FE-Penn Power | Central Lighting Control System | Lighting w/ No Controls | Healthcare | Other Int. Lighting | New | building | 85,662 | 14% | 0.1 | 8 | \$1,106 | 13% | 3.1 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 40W Incandescent Bulb | Healthcare | Other Int. Lighting | Early | lamp | 178 | 87% | 0.03 | 8 | \$30 | 14% | 2.0 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Healthcare | Other Int. Lighting | Early | lamp | 128 | 81% | 0.02 | 8 | \$30 | 11% | 1.4 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Healthcare | Other Int. Lighting | New | lamp | 97 | 81% | 0.02 | 8 | \$21 | 14% | 1.4 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Healthcare | Other Int. Lighting | New | lamp | 97 | 81% | 0.02 | 8 | \$23 | 14% | 1.3 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Healthcare | Other Int. Lighting | New | lamp | 97 | 81% | 0.02 | 8 | \$22 | 11% | 1.4 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Healthcare | Other Int. Lighting | ROB | lamp | 128 | 81% | 0.02 | 8 | \$21 | 14% | 1.9 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Healthcare | Other Int. Lighting | ROB | lamp | 128 | 81% | 0.02 | 8 | \$23 | 14% | 1.8 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Healthcare | Other Int. Lighting | ROB | lamp | 128 | 81% | 0.02 | 8 | \$22 | 11% | 1.8 |
| FE-Penn Power | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Healthcare | Other Int. Lighting | Early | lamp | 178 | 75% | 0.03 | 3 | \$73 | 24% | 0.3 |
| FE-Penn Power | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Healthcare | Other Int. Lighting | New | fixture | 194 | 65% | 0.03 | 13 | \$29 | 28% | 2.4 |
| FE-Penn Power | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Healthcare | Other Int. Lighting | New | lamp | 97 | 65% | 0.01 | 3 | \$29 | 28% | 0.4 |
| FE-Penn Power | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Healthcare | Other Int. Lighting | ROB | fixture | 255 | 65% | 0.03 | 13 | \$29 | 24% | 3.1 |
| FE-Penn Power | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Healthcare | Other Int. Lighting | ROB | lamp | 128 | 65% | 0.02 | 3 | \$29 | 24% | 0.5 |
| FE-Penn Power | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Healthcare | Other Int. Lighting | Early | lamp | 178 | 75% | 0.03 | 3 | \$3.2 | 24% | 7.4 |
| FE-Penn Power | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Healthcare | Other Int. Lighting | New | lamp | 97 | 65% | 0.01 | 3 | \$1.8 | 24% | 6.3 |
| FE-Penn Power | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Healthcare | Other Int. Lighting | ROB | lamp | 128 | 65% | 0.02 | 3 | \$1.8 | 24% | 8.2 |
| FE-Penn Power | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Healthcare | Other Int. Lighting | ROB | lamp | 128 | 65% | 0.02 | 3 | \$1.8 | 24% | 8.2 |
| FE-Penn Power | Exit Sign Retrofit: CFL replacing Incandescent | One 23W Single Sided Incandescent Exit Sign | Healthcare | Other Int. Lighting | Early | exit sign | 138 | 42% | 0.01 | 15 | \$48 | 22% | 0.6 |
| FE-Penn Power | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Healthcare | Other Int. Lighting | New | building | 85,662 | 10% | 0.1 | 15 | \$32,147 | 32% | 0.1 |
| FE-Penn Power | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Healthcare | Other Int. Lighting | New | building | 85,662 | 15% | 0.2 | 15 | \$80,367 | 32% | 0.1 |
| FE-Penn Power | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Healthcare | Other Int. Lighting | New | building | 85,662 | 30% | 0.3 | 15 | \$115,193 | 32% | 0.1 |
| FE-Penn Power | Indoor Daylight Sensors | Lighting w/ No Controls | Healthcare | Other Int. Lighting | Existing | building | 85,662 | 28% | 0.3 | 8 | \$5,444 | 13% | 1.2 |
| FE-Penn Power | Indoor Daylight Sensors | Lighting w/ No Controls | Healthcare | Other Int. Lighting | New | building | 85,662 | 4.1% | 0.04 | 8 | \$5,444 | 0% | 0.2 |
| FE-Penn Power | LED Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Healthcare | Other Int. Lighting | Early | sign | 153 | 87% | 0.02 | 15 | \$48 | 16% | 1.5 |
| FE-Penn Power | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Healthcare | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 1.6 |
| FE-Penn Power | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Healthcare | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 1.6 |
| FE-Penn Power | LED Task Lighting/Screw-In | 1 15W CFL bulb | Healthcare | Other Int. Lighting | Early | lamp | 37 | 33% | 0.00 | 10 | \$9.6 | 24% | 0.6 |
| FE-Penn Power | LED Task Lighting/Screw-In | 1 60W Incandescent Bulb | Healthcare | Other Int. Lighting | Early | lamp | 150 | 83% | 0.03 | 10 | \$9.6 | 24% | 6.0 |
| FE-Penn Power | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Healthcare | Other Int. Lighting | New | lamp | 82 | 77% | 0.01 | 10 | \$7.9 | 24% | 3.6 |
| FE-Penn Power | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Healthcare | Other Int. Lighting | New | lamp | 82 | 77% | 0.01 | 10 | \$7.9 | 24% | 3.6 |
| FE-Penn Power | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Healthcare | Other Int. Lighting | ROB | lamp | 107 | 77% | 0.02 | 10 | \$7.9 | 24% | 4.8 |
| FE-Penn Power | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Healthcare | Other Int. Lighting | ROB | lamp | 107 | 77% | 0.02 | 10 | \$7.9 | 24% | 4.8 |
| FE-Penn Power | Occupancy Sensor | Lighting w/ No Controls | Healthcare | Other Int. Lighting | Existing | building | 85,662 | 24% | 0.2 | 8 | \$1,666 | 11% | 3.5 |
| FE-Penn Power | Occupancy Sensor | Lighting w/ No Controls | Healthcare | Other Int. Lighting | New | building | 85,662 | 7.0% | 0.07 | 8 | \$1,666 | 0% | 1.0 |
| FE-Penn Power | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Healthcare | Other Int. Lighting | Existing | building | 85,662 | 28% | 0.3 | 8 | \$5,444 | 11% | 1.2 |
| FE-Penn Power | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Healthcare | Other Int. Lighting | New | building | 85,662 | 4.1% | 0.04 | 8 | \$5,444 | 0% | 0.2 |
| FE-Penn Power | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Healthcare | Other Int. Lighting | Early | exit sign | 138 | 100% | 0.02 | 15 | \$173 | 26% | 0.4 |
| FE-Penn Power | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Healthcare | Other Int. Lighting | New | exit sign | 80 | 100% | 0.01 | 15 | \$148 | 31% | 0.3 |
| FE-Penn Power | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Healthcare | Other Int. Lighting | ROB | exit sign | 80 | 100% | 0.01 | 15 | \$148 | 26% | 0.3 |
| FE-Penn Power | Time Clock Control | Lighting w/ No Controls | Healthcare | Other Int. Lighting | Existing | building | 85,662 | 28% | 0.3 | 8 | \$1,106 | 13% | 6.1 |
| FE-Penn Power | Time Clock Control | Lighting w/ No Controls | Healthcare | Other Int. Lighting | New | building | 85,662 | 4.1% | 0.04 | 8 | \$1,106 | 0% | 0.9 |
| FE-Penn Power | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Healthcare | Plug Load | Existing | building | 2,913 | 46% | 0.5 | 5 | \$189 | 4% | 2.2 |
| FE-Penn Power | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Healthcare | Plug Load | New | building | 1,422 | 46% | 0.5 | 5 | \$189 | 4% | 1.5 |
| FE-Penn Power | Data Center - Server/Storage Consolidation | No Consolidation | Healthcare | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penn Power | Data Center - Server/Storage Consolidation | No Consolidation | Healthcare | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penn Power | Data Center - Server/Storage Virtualization | No Virtualization | Healthcare | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penn Power | Data Center - Server/Storage Virtualization | No Virtualization | Healthcare | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penn Power | Energy Star - Scanners | Std Scanner | Healthcare | Plug Load | New | measure | 68 | 3.9% | 0.04 | 4 | \$777 | 7% | 0.0 |
| FE-Penn Power | Energy Star - Scanners | Std Scanner | Healthcare | Plug Load | ROB | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| FE-Penn Power | Energy Star Battery Charging System (for small cordless products) | Std. Battery Charging System | Healthcare | Plug Load | ROB | measure | 593 | 2.3% | 4.8 | 5 | \$65 | 4% | 27.5 |
| FE-Penn Power | Energy Star Dishwasher | Existing Dishwasher units | Healthcare | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,580 | 6% | 0.9 |
| FE-Penn Power | Energy Star Dishwasher | Standard Dishwasher unit | Healthcare | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 6% | 2.8 |
| FE-Penn Power | Energy Star Dishwasher | Standard Dishwasher unit | Healthcare | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 6% | 2.8 |
| FE-Penn Power | Energy Star External Power Adapter | Std. Power Adapter | Healthcare | Plug Load | New | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| FE-Penn Power | Energy Star External Power Adapter | Std. Power Adapter | Healthcare | Plug Load | ROB | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| FE-Penn Power | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Healthcare | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 17% | 0.1 |
| FE-Penn Power | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Healthcare | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 1.7 |
| FE-Penn Power | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Healthcare | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 1.7 |
| FE-Penn Power | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Healthcare | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 9% | 0.7 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|---|------------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Healthcare | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.5 |
| FE-Penn Power | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Healthcare | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.5 |
| FE-Penn Power | ENERGY STAR® Copiers | 10% Less Efficient Copier | Healthcare | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 80% | 0.0 |
| FE-Penn Power | ENERGY STAR® Copiers | One Conventional Copier | Healthcare | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 80% | 0.0 |
| FE-Penn Power | ENERGY STAR® Copiers | One Conventional Copier | Healthcare | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 80% | 0.0 |
| FE-Penn Power | ENERGY STAR® desktop | Standard computer | Healthcare | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 69% | 0.1 |
| FE-Penn Power | ENERGY STAR® desktop | Standard computer | Healthcare | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.2 |
| FE-Penn Power | ENERGY STAR® desktop | Standard computer | Healthcare | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.2 |
| FE-Penn Power | ENERGY STAR® Fax | 10% Less Efficient Fax | Healthcare | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 15% | 0.0 |
| FE-Penn Power | ENERGY STAR® Fax | One Conventional Fax | Healthcare | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.1 |
| FE-Penn Power | ENERGY STAR® Fax | One Conventional Fax | Healthcare | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.1 |
| FE-Penn Power | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Healthcare | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 70% | 0.0 |
| FE-Penn Power | ENERGY STAR® Monitors | One Conventional Monitor | Healthcare | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| FE-Penn Power | ENERGY STAR® Monitors | One Conventional Monitor | Healthcare | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| FE-Penn Power | ENERGY STAR® Printers | 10% Less Efficient Printer | Healthcare | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 44% | 0.0 |
| FE-Penn Power | ENERGY STAR® Printers | One Conventional Printer | Healthcare | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| FE-Penn Power | ENERGY STAR® Printers | One Conventional Printer | Healthcare | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| FE-Penn Power | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Healthcare | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 43% | 0.1 |
| FE-Penn Power | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Healthcare | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.6 |
| FE-Penn Power | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Healthcare | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.6 |
| FE-Penn Power | ENERGY STAR® Televisions | 10% Less Efficient Television | Healthcare | Plug Load | Early | Unit | 230 | 38% | 0.02 | 6 | \$672 | 40% | 0.0 |
| FE-Penn Power | ENERGY STAR® Televisions | One Conventional Television | Healthcare | Plug Load | New | Unit | 209 | 32% | 0.01 | 6 | \$206 | 40% | 0.1 |
| FE-Penn Power | ENERGY STAR® Televisions | One Conventional Television | Healthcare | Plug Load | ROB | Unit | 209 | 32% | 0.01 | 6 | \$206 | 40% | 0.1 |
| FE-Penn Power | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Healthcare | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 24% | 0.2 |
| FE-Penn Power | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Healthcare | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.5 |
| FE-Penn Power | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Healthcare | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.5 |
| FE-Penn Power | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Healthcare | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 73% | 0.2 |
| FE-Penn Power | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Healthcare | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 73% | 0.2 |
| FE-Penn Power | Network PC Power Management | No PC Power Management | Healthcare | Plug Load | Existing | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 53.0 |
| FE-Penn Power | Network PC Power Management | No PC Power Management | Healthcare | Plug Load | New | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 53.0 |
| FE-Penn Power | Smart Strip Plug Outlets | Standard plug strip/outlet | Healthcare | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.3 |
| FE-Penn Power | Smart Strip Plug Outlets | Standard plug strip/outlet | Healthcare | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.3 |
| FE-Penn Power | Smart Strip Plug Outlets | Standard plug strip/outlet | Healthcare | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| FE-Penn Power | Smart Strip Plug Outlets | Standard plug strip/outlet | Healthcare | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| FE-Penn Power | Smart Strip Plug Outlets | Standard plug strip/outlet | Healthcare | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| FE-Penn Power | Smart Strip Plug Outlets | Standard plug strip/outlet | Healthcare | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| FE-Penn Power | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Healthcare | Plug Load | Existing | building | 2,913 | 46% | 0.5 | 5 | \$180 | 3% | 2.3 |
| FE-Penn Power | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Healthcare | Plug Load | New | building | 1,422 | 46% | 0.5 | 5 | \$180 | 3% | 1.6 |
| FE-Penn Power | Air curtain technology | Strip plastic curtain | Healthcare | Refrigeration | New | building | 1,968 | 6.8% | 0.07 | 8 | \$1,683 | 35% | 0.0 |
| FE-Penn Power | Air curtain technology | Strip plastic curtain | Healthcare | Refrigeration | New | building | 22,726 | 6.8% | 0.07 | 8 | \$1,683 | 35% | 0.3 |
| FE-Penn Power | Auto Closer on Refrigerator Door | Door w/out Autocloser | Healthcare | Refrigeration | Existing | building | 1,968 | 11% | 0.1 | 8 | \$749 | 40% | 0.1 |
| FE-Penn Power | Auto Closer on Refrigerator Door | Door w/out Autocloser | Healthcare | Refrigeration | Existing | building | 22,726 | 6.7% | 0.07 | 8 | \$833 | 40% | 0.5 |
| FE-Penn Power | Auto Closer on Refrigerator Door | Door w/out Autocloser | Healthcare | Refrigeration | New | building | 1,968 | 11% | 0.1 | 8 | \$749 | 40% | 0.1 |
| FE-Penn Power | Auto Closer on Refrigerator Door | Door w/out Autocloser | Healthcare | Refrigeration | New | building | 22,726 | 6.7% | 0.07 | 8 | \$833 | 40% | 0.5 |
| FE-Penn Power | Door Gasket- Freezer | Door w/out Gasket | Healthcare | Refrigeration | Existing | building | 1,968 | 5.8% | 0.06 | 4 | \$77 | 29% | 0.5 |
| FE-Penn Power | Door Gasket- Freezer | Door w/out Gasket | Healthcare | Refrigeration | New | building | 1,968 | 5.8% | 0.06 | 4 | \$77 | 29% | 0.5 |
| FE-Penn Power | Door Gasket- Refrigerator | Door w/out Gasket | Healthcare | Refrigeration | Existing | building | 22,726 | 2.1% | 0.02 | 4 | \$115 | 45% | 0.7 |
| FE-Penn Power | Door Gasket- Refrigerator | Door w/out Gasket | Healthcare | Refrigeration | New | building | 22,726 | 2.1% | 0.02 | 4 | \$115 | 45% | 0.7 |
| FE-Penn Power | Economizer for Walk-in Coolers | No Economizer | Healthcare | Refrigeration | Early | measure | 25,239 | 6.6% | 0.2 | 10 | \$293 | 72% | 2.2 |
| FE-Penn Power | Economizer for Walk-in Coolers | No Economizer | Healthcare | Refrigeration | Early | measure | 25,239 | 6.6% | 0.2 | 10 | \$293 | 72% | 2.2 |
| FE-Penn Power | Economizer for Walk-in Coolers | No Economizer | Healthcare | Refrigeration | Early | measure | 25,239 | 6.6% | 0.2 | 10 | \$293 | 72% | 2.2 |
| FE-Penn Power | Economizer for Walk-in Coolers | No Economizer | Healthcare | Refrigeration | New | measure | 25,239 | 6.6% | 0.2 | 10 | \$35 | 72% | 18.7 |
| FE-Penn Power | Economizer for Walk-in Coolers | No Economizer | Healthcare | Refrigeration | New | measure | 25,239 | 6.6% | 0.2 | 10 | \$35 | 72% | 18.7 |
| FE-Penn Power | Economizer for Walk-in Coolers | No Economizer | Healthcare | Refrigeration | New | measure | 25,239 | 6.6% | 0.2 | 10 | \$35 | 72% | 18.7 |
| FE-Penn Power | Economizer for Walk-in Coolers | No Economizer | Healthcare | Refrigeration | ROB | measure | 25,239 | 6.6% | 0.2 | 10 | \$35 | 72% | 18.7 |
| FE-Penn Power | Economizer for Walk-in Coolers | No Economizer | Healthcare | Refrigeration | ROB | measure | 25,239 | 6.6% | 0.2 | 10 | \$35 | 72% | 18.7 |
| FE-Penn Power | Economizer for Walk-in Coolers | No Economizer | Healthcare | Refrigeration | ROB | measure | 25,239 | 6.6% | 0.2 | 10 | \$35 | 72% | 18.7 |
| FE-Penn Power | eCube | Refrigeration unit w/out eCube | Healthcare | Refrigeration | Existing | building | 22,726 | 15% | 0.2 | 15 | \$443 | 57% | 3.4 |
| FE-Penn Power | eCube | Refrigeration unit w/out eCube | Healthcare | Refrigeration | New | building | 22,726 | 15% | 0.2 | 15 | \$443 | 57% | 3.4 |
| FE-Penn Power | Efficient compressor motor | Base Refrigeration System - Grocery | Healthcare | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.4 |
| FE-Penn Power | Efficient compressor motor | Base Refrigeration System - Grocery | Healthcare | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.4 |
| FE-Penn Power | Efficient compressor motor | Base Refrigeration System - Grocery | Healthcare | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.4 |
| FE-Penn Power | Efficient compressor motor | Base Refrigeration System - Grocery | Healthcare | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.4 |
| FE-Penn Power | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Healthcare | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.4 |
| FE-Penn Power | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Healthcare | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.2 |
| FE-Penn Power | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Healthcare | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|--|------------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Healthcare | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.2 |
| FE-Penn Power | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Healthcare | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.6 |
| FE-Penn Power | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Healthcare | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.6 |
| FE-Penn Power | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Healthcare | Refrigeration | Existing | building | 22,726 | 0.7% | 0.01 | 10 | \$369 | 77% | 0.1 |
| FE-Penn Power | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Healthcare | Refrigeration | New | building | 22,726 | 0.7% | 0.01 | 10 | \$369 | 77% | 0.1 |
| FE-Penn Power | Floating head pressure controller | System w/out FHPC | Healthcare | Refrigeration | Existing | building | 1,968 | 12% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penn Power | Floating head pressure controller | System w/out FHPC | Healthcare | Refrigeration | Existing | building | 22,726 | 0.4% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penn Power | Floating head pressure controller | System w/out FHPC | Healthcare | Refrigeration | New | building | 1,968 | 12% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penn Power | Floating head pressure controller | System w/out FHPC | Healthcare | Refrigeration | New | building | 22,726 | 0.4% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penn Power | High Efficiency Commercial Freezer | Std. Commercial Freezer | Healthcare | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 84% | 0.3 |
| FE-Penn Power | High Efficiency Commercial Freezer | Std. Commercial Freezer | Healthcare | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 84% | 3.2 |
| FE-Penn Power | High Efficiency Commercial Freezer | Std. Commercial Freezer | Healthcare | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 84% | 3.2 |
| FE-Penn Power | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Healthcare | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 21% | 0.1 |
| FE-Penn Power | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Healthcare | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 21% | 0.7 |
| FE-Penn Power | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Healthcare | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 21% | 0.7 |
| FE-Penn Power | High Efficiency Ice Maker | Existing Standard Efficiency Ice Maker in Pennsylvania | Healthcare | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 69% | 0.1 |
| FE-Penn Power | High Efficiency Ice Maker | Standard code minimum Ice Maker | Healthcare | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 69% | 0.1 |
| FE-Penn Power | High Efficiency Ice Maker | Standard code minimum Ice Maker | Healthcare | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 69% | 0.1 |
| FE-Penn Power | High Efficiency Ice Making Head | Standard Ice Making Head | Healthcare | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.2 |
| FE-Penn Power | High Efficiency Ice Making Head | Standard Ice Making Head | Healthcare | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.2 |
| FE-Penn Power | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Healthcare | Refrigeration | Early | Fixture | 373 | 56% | 0.02 | 8 | \$448 | 86% | 0.1 |
| FE-Penn Power | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Healthcare | Refrigeration | New | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 86% | 0.3 |
| FE-Penn Power | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Healthcare | Refrigeration | ROB | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 86% | 0.3 |
| FE-Penn Power | Quick acting freezer doors | Std. Freezer Doors | Healthcare | Refrigeration | Existing | building | 1,968 | 13% | 0.1 | 10 | \$2,031 | 56% | 0.1 |
| FE-Penn Power | Quick acting freezer doors | Std. Freezer Doors | Healthcare | Refrigeration | New | building | 1,968 | 13% | 0.1 | 10 | \$2,031 | 56% | 0.1 |
| FE-Penn Power | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Healthcare | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 29% | 0.3 |
| FE-Penn Power | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Healthcare | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 29% | 1.3 |
| FE-Penn Power | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Healthcare | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 29% | 1.3 |
| FE-Penn Power | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 29% | 1.3 |
| FE-Penn Power | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 29% | 2.2 |
| FE-Penn Power | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 29% | 2.2 |
| FE-Penn Power | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 29% | 1.3 |
| FE-Penn Power | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 29% | 3.0 |
| FE-Penn Power | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 29% | 3.0 |
| FE-Penn Power | Refrigeration Commissioning | Non-commissioned refrigeration system | Healthcare | Refrigeration | Existing | building | 25,590 | 9.5% | 0.10 | 3 | \$1,147 | 85% | 0.3 |
| FE-Penn Power | Refrigeration Commissioning | Non-commissioned refrigeration system | Healthcare | Refrigeration | New | building | 25,590 | 9.5% | 0.10 | 3 | \$1,147 | 85% | 0.3 |
| FE-Penn Power | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Healthcare | Refrigeration | Existing | building | 1,968 | 14% | 0.1 | 4 | \$93 | 22% | 0.9 |
| FE-Penn Power | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Healthcare | Refrigeration | Existing | building | 22,726 | 2.9% | 0.03 | 4 | \$140 | 22% | 0.8 |
| FE-Penn Power | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Healthcare | Refrigeration | New | building | 1,968 | 14% | 0.1 | 4 | \$93 | 22% | 0.9 |
| FE-Penn Power | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Healthcare | Refrigeration | New | building | 22,726 | 2.9% | 0.03 | 4 | \$140 | 22% | 0.8 |
| FE-Penn Power | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Healthcare | Refrigeration | Existing | building | 1,968 | 2.6% | 0.03 | 11 | \$130 | 77% | 0.3 |
| FE-Penn Power | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Healthcare | Refrigeration | New | building | 1,968 | 2.6% | 0.03 | 11 | \$130 | 77% | 0.3 |
| FE-Penn Power | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Healthcare | Refrigeration | Existing | building | 22,726 | 2.0% | 0.02 | 11 | \$130 | 77% | 1.2 |
| FE-Penn Power | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Healthcare | Refrigeration | New | building | 22,726 | 2.0% | 0.02 | 11 | \$130 | 77% | 1.2 |
| FE-Penn Power | Vendor Miser | No Vendor Miser | Healthcare | Refrigeration | Existing | building | 896 | 12% | 0.1 | 8 | \$89 | 7% | 1.1 |
| FE-Penn Power | VSD Controlled Compressor | Compressor w/out VSD | Healthcare | Refrigeration | Early | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 73% | 0.1 |
| FE-Penn Power | VSD Controlled Compressor | Compressor w/out VSD | Healthcare | Refrigeration | New | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 73% | 0.1 |
| FE-Penn Power | VSD Controlled Compressor | Compressor w/out VSD | Healthcare | Refrigeration | ROB | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 73% | 0.1 |
| FE-Penn Power | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Healthcare | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$269 | 35% | 0.7 |
| FE-Penn Power | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Healthcare | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$269 | 35% | 0.7 |
| FE-Penn Power | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Healthcare | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 2.4 |
| FE-Penn Power | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Healthcare | Refrigeration | New | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 2.3 |
| FE-Penn Power | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Healthcare | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 2.4 |
| FE-Penn Power | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Healthcare | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 2.3 |
| FE-Penn Power | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 35% | 1.9 |
| FE-Penn Power | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 35% | 1.8 |
| FE-Penn Power | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 3.9 |
| FE-Penn Power | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 3.7 |
| FE-Penn Power | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 3.9 |
| FE-Penn Power | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 3.7 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Healthcare | Space Heating | Existing | building | 33,236 | 7.1% | 0.07 | 6 | \$14,919 | 82% | 0.0 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Healthcare | Space Heating | New | building | 33,236 | 7.1% | 0.07 | 6 | \$14,919 | 82% | 0.0 |
| FE-Penn Power | Adding window shade film | No shade film | Healthcare | Space Heating | Existing | building | 33,236 | 1.3% | 0.4 | 10 | \$404 | 13% | 0.9 |
| FE-Penn Power | Adding window shade film | No shade film | Healthcare | Space Heating | New | building | 33,236 | 1.3% | 0.4 | 10 | \$404 | 13% | 0.9 |
| FE-Penn Power | Adding window shade screen | No shade screen | Healthcare | Space Heating | Existing | building | 33,236 | 1.1% | 0.01 | 10 | \$156 | 13% | 0.7 |
| FE-Penn Power | Adding window shade screen | No shade screen | Healthcare | Space Heating | New | building | 33,236 | 1.1% | 0.01 | 10 | \$156 | 13% | 0.7 |
| FE-Penn Power | Automated control system | Manual Controls | Healthcare | Space Heating | Existing | building | 33,236 | 17% | 0.2 | 15 | \$36,386 | 51% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|--|--|------------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Automated control system | Manual Controls | Healthcare | Space Heating | New | building | 33,236 | 17% | 0.2 | 15 | \$36,386 | 94% | 0.1 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Healthcare | Space Heating | Existing | building | 33,236 | 1.1% | 0.01 | 15 | \$20,566 | 71% | 0.0 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Healthcare | Space Heating | New | building | 33,236 | 0.3% | 0.00 | 15 | \$19,549 | 94% | 0.0 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Healthcare | Space Heating | Existing | building | 33,236 | 1.4% | 0.04 | 15 | \$264 | 20% | 0.8 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Healthcare | Space Heating | New | building | 33,236 | 1.4% | 0.04 | 15 | \$264 | 10% | 0.8 |
| FE-Penn Power | Efficient Unit Heating System | Existing Unit Heaters in PA | Healthcare | Space Heating | Early | heater | 23,810 | 23% | 0.04 | 15 | \$3,289 | 83% | 0.6 |
| FE-Penn Power | Efficient Unit Heating System | Std. Unit Heater | Healthcare | Space Heating | New | heater | 21,131 | 13% | 0.02 | 15 | \$1,991 | 83% | 0.5 |
| FE-Penn Power | Efficient Unit Heating System | Std. Unit Heater | Healthcare | Space Heating | ROB | heater | 21,131 | 13% | 0.02 | 15 | \$1,991 | 83% | 0.5 |
| FE-Penn Power | Facility Commissioning | No Facility Commissioning | Healthcare | Space Heating | New | building | 33,236 | 16% | 0.2 | 10 | \$67,032 | 89% | 0.0 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Healthcare | Space Heating | Existing | building | 33,236 | 7.1% | 0.07 | 15 | \$147,428 | 25% | 0.0 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Healthcare | Space Heating | New | building | 33,236 | 7.1% | 0.07 | 15 | \$147,428 | 35% | 0.0 |
| FE-Penn Power | Hi Eff HVAC System Design | No HVAC Design | Healthcare | Space Heating | New | building | 33,236 | 8.6% | 0.09 | 10 | \$651,928 | 51% | 0.0 |
| FE-Penn Power | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Healthcare | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 0.8 |
| FE-Penn Power | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Healthcare | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 0.8 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Healthcare | Space Heating | Existing | building | 33,236 | 2.1% | 0.02 | 10 | \$7,735 | 81% | 0.0 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Healthcare | Space Heating | New | building | 33,236 | 2.1% | 0.02 | 10 | \$7,735 | 81% | 0.0 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Healthcare | Space Heating | Existing | building | 33,236 | 3.6% | 0.04 | 11 | \$286 | 49% | 1.4 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Healthcare | Space Heating | New | building | 33,236 | 3.1% | 0.03 | 11 | \$146 | 49% | 2.3 |
| FE-Penn Power | Re-Commissioning (Existing Construction) | No Re-Commissioning | Healthcare | Space Heating | Existing | building | 33,236 | 16% | 0.2 | 5 | \$8,847 | 86% | 0.1 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Healthcare | Space Heating | Existing | building | 33,236 | 2.6% | 0.03 | 15 | \$5,624 | 26% | 0.1 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Healthcare | Space Heating | New | building | 33,236 | 0.1% | 0.00 | 15 | \$4,314 | 94% | 0.0 |
| FE-Penn Power | Green LED Traffic Light | Green Incandescent Traffic Light | Healthcare | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 0% | 1.0 |
| FE-Penn Power | Green LED Traffic Light | Green Incandescent Traffic Light | Healthcare | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| FE-Penn Power | Green LED Traffic Light | Green Incandescent Traffic Light | Healthcare | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| FE-Penn Power | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Healthcare | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 0% | 2.6 |
| FE-Penn Power | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Healthcare | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-Penn Power | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Healthcare | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-Penn Power | Induction Street Lighting | One 100W HPS Street Light Fixture | Healthcare | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 0% | 0.2 |
| FE-Penn Power | Induction Street Lighting | One 100W HPS Street Light Fixture | Healthcare | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.4 |
| FE-Penn Power | Induction Street Lighting | One 100W HPS Street Light Fixture | Healthcare | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.4 |
| FE-Penn Power | LED Street Lighting | One 100W HPS Street Light | Healthcare | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 0% | 0.2 |
| FE-Penn Power | LED Street Lighting | One 100W HPS Street Light | Healthcare | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-Penn Power | LED Street Lighting | One 100W HPS Street Light | Healthcare | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-Penn Power | Red LED Traffic Light | One Red Incandescent Traffic Light | Healthcare | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 0% | 1.4 |
| FE-Penn Power | Red LED Traffic Light | One Red Incandescent Traffic Light | Healthcare | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.2 |
| FE-Penn Power | Red LED Traffic Light | One Red Incandescent Traffic Light | Healthcare | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.2 |
| FE-Penn Power | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Healthcare | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 0% | 0.1 |
| FE-Penn Power | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Healthcare | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-Penn Power | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Healthcare | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-Penn Power | Demand controlled Circulating Systems | Constant circulation system | Healthcare | Water Heating | Existing | building | 1,990 | 20% | 0.2 | 15 | \$361 | 59% | 0.9 |
| FE-Penn Power | Demand controlled Circulating Systems | Constant circulation system | Healthcare | Water Heating | New | building | 1,990 | 20% | 0.2 | 15 | \$361 | 59% | 0.9 |
| FE-Penn Power | Drainwater Heat Recovery Water Heater | No heat recovery | Healthcare | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.5 |
| FE-Penn Power | Drainwater Heat Recovery Water Heater | No heat recovery | Healthcare | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.5 |
| FE-Penn Power | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Healthcare | Water Heating | Existing | building | 1,990 | 5.9% | 0.06 | 12 | \$140 | 85% | 0.6 |
| FE-Penn Power | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Healthcare | Water Heating | New | building | 1,990 | 5.9% | 0.06 | 12 | \$40 | 85% | 2.1 |
| FE-Penn Power | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Healthcare | Water Heating | Early | water heater | 96,871 | 66% | 11.3 | 10 | \$3,562 | 68% | 7.7 |
| FE-Penn Power | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Healthcare | Water Heating | Early | water heater | 96,871 | 66% | 11.3 | 10 | \$3,562 | 68% | 7.7 |
| FE-Penn Power | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Healthcare | Water Heating | New | water heater | 96,871 | 66% | 11.3 | 10 | \$3,562 | 68% | 7.7 |
| FE-Penn Power | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Healthcare | Water Heating | New | water heater | 96,871 | 66% | 11.3 | 10 | \$3,562 | 68% | 7.7 |
| FE-Penn Power | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Healthcare | Water Heating | ROB | water heater | 94,180 | 65% | 10.9 | 10 | \$3,562 | 68% | 7.4 |
| FE-Penn Power | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Healthcare | Water Heating | ROB | water heater | 94,180 | 65% | 10.9 | 10 | \$3,562 | 68% | 7.4 |
| FE-Penn Power | Heat Recovery Unit | Base Water Heating | Healthcare | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.3 |
| FE-Penn Power | Heat Recovery Unit | Base Water Heating | Healthcare | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.3 |
| FE-Penn Power | Heat Trap | No Heat Trap | Healthcare | Water Heating | Existing | building | 1,990 | 1.0% | 0.01 | 11 | \$0.4 | 50% | 35.2 |
| FE-Penn Power | Heat Trap | No Heat Trap | Healthcare | Water Heating | New | building | 1,990 | 1.0% | 0.01 | 11 | \$0.2 | 50% | 91.8 |
| FE-Penn Power | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Healthcare | Water Heating | Early | water heater | 96,871 | 5.9% | 1.0 | 15 | \$921 | 79% | 3.5 |
| FE-Penn Power | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Healthcare | Water Heating | Early | water heater | 96,871 | 5.9% | 1.0 | 15 | \$921 | 79% | 3.5 |
| FE-Penn Power | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Healthcare | Water Heating | New | water heater | 94,180 | 3.2% | 0.5 | 15 | \$921 | 79% | 1.9 |
| FE-Penn Power | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Healthcare | Water Heating | New | water heater | 94,180 | 3.2% | 0.5 | 15 | \$921 | 79% | 1.9 |
| FE-Penn Power | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Healthcare | Water Heating | ROB | water heater | 94,180 | 3.2% | 0.5 | 15 | \$921 | 79% | 1.9 |
| FE-Penn Power | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Healthcare | Water Heating | ROB | water heater | 94,180 | 3.2% | 0.5 | 15 | \$921 | 79% | 1.9 |
| FE-Penn Power | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Healthcare | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$466 | 81% | 32.0 |
| FE-Penn Power | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Healthcare | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 16.7 |
| FE-Penn Power | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Healthcare | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 16.7 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|--|---|------------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Healthcare | Water Heating | Existing | building | 1,990 | 3.1% | 0.03 | 13 | \$9.2 | 68% | 5.0 |
| FE-Penn Power | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Healthcare | Water Heating | New | building | 1,990 | 3.1% | 0.03 | 13 | \$9.2 | 0% | 5.0 |
| FE-Penn Power | Hot Water Circulation Pump Time-Clock | Constant circulation system | Healthcare | Water Heating | Existing | building | 1,990 | 5.3% | 0.05 | 10 | \$8.0 | 72% | 8.3 |
| FE-Penn Power | Hot Water Circulation Pump Time-Clock | Constant circulation system | Healthcare | Water Heating | New | building | 1,990 | 5.3% | 0.05 | 10 | \$8.0 | 72% | 8.3 |
| FE-Penn Power | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Healthcare | Water Heating | Existing | building | 1,768 | 0.1% | 0.00 | 7 | \$22 | 78% | 0.0 |
| FE-Penn Power | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Healthcare | Water Heating | New | building | 1,768 | 0.1% | 0.00 | 7 | \$0.5 | 78% | 2.0 |
| FE-Penn Power | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Healthcare | Water Heating | Existing | building | 1,990 | 9.7% | 0.10 | 5 | \$300 | 20% | 0.2 |
| FE-Penn Power | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Healthcare | Water Heating | New | building | 1,990 | 6.4% | 0.06 | 5 | \$194 | 20% | 0.2 |
| FE-Penn Power | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Healthcare | Water Heating | Existing | building | 1,990 | 6.5% | 0.07 | 9 | \$250 | 9% | 0.3 |
| FE-Penn Power | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Healthcare | Water Heating | New | building | 1,990 | 6.5% | 0.07 | 9 | \$60 | 9% | 1.3 |
| FE-Penn Power | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Healthcare | Water Heating | Early | water heater | 96,871 | 52% | 4.1 | 15 | \$18,666 | 32% | 1.3 |
| FE-Penn Power | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Healthcare | Water Heating | New | water heater | 94,180 | 51% | 3.9 | 15 | \$18,666 | 32% | 1.3 |
| FE-Penn Power | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Healthcare | Water Heating | ROB | water heater | 94,180 | 51% | 3.9 | 15 | \$18,666 | 32% | 1.3 |
| FE-Penn Power | Ultrasonic Faucet Control | Manual Faucet Control | Healthcare | Water Heating | Existing | building | 1,990 | 3.0% | 0.03 | 10 | \$344 | 77% | 0.1 |
| FE-Penn Power | Ultrasonic Faucet Control | Manual Faucet Control | Healthcare | Water Heating | New | building | 1,990 | 3.1% | 0.03 | 10 | \$344 | 77% | 0.1 |
| FE-Penn Power | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Healthcare | Water Heating | Existing | building | 1,990 | 2.2% | 0.02 | 4 | \$28 | 83% | 0.5 |
| FE-Penn Power | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Healthcare | Water Heating | New | building | 1,990 | 2.3% | 0.02 | 4 | \$28 | 83% | 0.5 |
| FE-Penn Power | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Lodging | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 0.9 |
| FE-Penn Power | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Lodging | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 0.9 |
| FE-Penn Power | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Lodging | Cooking | Early | steamer | 51 | 46% | 0.00 | 12 | \$5,053 | 81% | 0.0 |
| FE-Penn Power | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Lodging | Cooking | New | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-Penn Power | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Lodging | Cooking | ROB | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-Penn Power | Electric combination oven (Energy Star) | Standard Oven | Lodging | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.5 |
| FE-Penn Power | Electric combination oven (Energy Star) | Standard Oven | Lodging | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.5 |
| FE-Penn Power | Electric Convection Oven | Conventional convection oven w/ 65% efficiency | Lodging | Cooking | Early | oven | 8,641 | 37% | 0.6 | 12 | \$4,119 | 81% | 0.4 |
| FE-Penn Power | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Lodging | Cooking | New | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.6 |
| FE-Penn Power | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Lodging | Cooking | ROB | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.6 |
| FE-Penn Power | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Lodging | Cooking | Early | fryer | 6,105 | 23% | 0.3 | 12 | \$9,241 | 86% | 0.1 |
| FE-Penn Power | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Lodging | Cooking | New | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| FE-Penn Power | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Lodging | Cooking | ROB | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| FE-Penn Power | High Efficiency Griddle (ENERGY STAR) | Efficiency code minimum griddle (70% eff) | Lodging | Cooking | Early | griddle | 11,317 | 65% | 1.4 | 12 | \$4,977 | 86% | 0.7 |
| FE-Penn Power | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Lodging | Cooking | New | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.0 |
| FE-Penn Power | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Lodging | Cooking | ROB | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.0 |
| FE-Penn Power | High Efficiency Induction Cooking | Standard Cooking | Lodging | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-Penn Power | High Efficiency Induction Cooking | Standard Cooking | Lodging | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Lodging | Cooling Central | Existing | building | 4,934 | 7.0% | 0.07 | 6 | \$17,166 | 82% | 0.0 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Lodging | Cooling Central | New | building | 4,934 | 7.0% | 0.07 | 6 | \$17,166 | 82% | 0.0 |
| FE-Penn Power | Adding window shade film | No shade film | Lodging | Cooling Central | Existing | building | 4,934 | 1.3% | 0.4 | 10 | \$60 | 12% | 4.1 |
| FE-Penn Power | Adding window shade film | No shade film | Lodging | Cooling Central | New | building | 4,934 | 1.3% | 0.4 | 10 | \$60 | 13% | 4.1 |
| FE-Penn Power | Adding window shade screen | No shade screen | Lodging | Cooling Central | Existing | building | 4,934 | 1.1% | 0.01 | 10 | \$23 | 13% | 1.0 |
| FE-Penn Power | Adding window shade screen | No shade screen | Lodging | Cooling Central | New | building | 4,934 | 1.1% | 0.01 | 10 | \$23 | 13% | 1.0 |
| FE-Penn Power | Automated control system | Manual Controls | Lodging | Cooling Central | Existing | building | 4,934 | 17% | 0.2 | 15 | \$5,401 | 51% | 0.1 |
| FE-Penn Power | Automated control system | Manual Controls | Lodging | Cooling Central | New | building | 4,934 | 17% | 0.2 | 15 | \$5,401 | 94% | 0.1 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Lodging | Cooling Central | Existing | building | 4,934 | 3.3% | 0.03 | 15 | \$23,552 | 71% | 0.0 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Lodging | Cooling Central | New | building | 4,934 | 1.1% | 0.01 | 15 | \$22,387 | 94% | 0.0 |
| FE-Penn Power | Chiller Tuneup/Diagnostics | No tuneup | Lodging | Cooling Central | Existing | building | 4,934 | 8.0% | 0.08 | 10 | \$12,598 | 59% | 0.0 |
| FE-Penn Power | Chiller Tuneup/Diagnostics | No tuneup | Lodging | Cooling Central | New | building | 4,934 | 8.0% | 0.08 | 10 | \$12,598 | 59% | 0.0 |
| FE-Penn Power | Commercial energy recovery ventilation systems | No Commercial Recovery System | Lodging | Cooling Central | Existing | building | 4,934 | 16% | 0.2 | 14 | \$4,458 | 71% | 0.1 |
| FE-Penn Power | Cooling Tower Optimization | No Cooling Tower Optimization | Lodging | Cooling Central | Existing | building | 4,934 | 20% | 0.2 | 10 | \$30 | 69% | 14.4 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Lodging | Cooling Central | Existing | building | 4,934 | 1.4% | 0.04 | 15 | \$39 | 20% | 1.5 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Lodging | Cooling Central | New | building | 4,934 | 1.4% | 0.04 | 15 | \$39 | 10% | 1.6 |
| FE-Penn Power | Facility Commissioning | No Facility Commissioning | Lodging | Cooling Central | New | building | 4,934 | 16% | 0.2 | 10 | \$2,255 | 89% | 0.2 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Lodging | Cooling Central | Existing | building | 4,934 | 7.0% | 0.07 | 15 | \$21,884 | 25% | 0.0 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Lodging | Cooling Central | New | building | 4,934 | 7.0% | 0.07 | 15 | \$21,884 | 35% | 0.0 |
| FE-Penn Power | Hi Eff HVAC System Design | No HVAC Design | Lodging | Cooling Central | New | building | 4,934 | 7.3% | 0.07 | 10 | \$64,531 | 51% | 0.0 |
| FE-Penn Power | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Lodging | Cooling Central | Early | ton | 14,014 | 24% | 1.2 | 15 | \$108,550 | 88% | 0.0 |
| FE-Penn Power | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Lodging | Cooling Central | New | ton | 11,456 | 6.7% | 0.3 | 15 | \$12,927 | 88% | 0.0 |
| FE-Penn Power | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Lodging | Cooling Central | ROB | ton | 11,456 | 6.7% | 0.3 | 15 | \$12,927 | 88% | 0.0 |
| FE-Penn Power | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Lodging | Cooling Central | Early | ton | 20,940 | 23% | 1.8 | 15 | \$140,105 | 88% | 0.0 |
| FE-Penn Power | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Lodging | Cooling Central | New | ton | 16,847 | 4.8% | 0.3 | 15 | \$9,336 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Lodging | Cooling Central | ROB | ton | 16,847 | 4.8% | 0.3 | 15 | \$9,336 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Lodging | Cooling Central | Early | ton | 171,422 | 26% | 16.3 | 15 | \$105,354 | 88% | 0.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|--|--|---------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Lodging | Cooling Central | New | ton | 149,358 | 15% | 8.2 | 15 | \$30,530 | 88% | 0.5 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Lodging | Cooling Central | ROB | ton | 149,358 | 15% | 8.2 | 15 | \$30,530 | 88% | 0.5 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Lodging | Cooling Central | Early | ton | 256,743 | 23% | 21.5 | 15 | \$154,107 | 88% | 0.3 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Lodging | Cooling Central | New | ton | 235,850 | 16% | 13.9 | 15 | \$27,646 | 88% | 1.0 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Lodging | Cooling Central | ROB | ton | 256,743 | 23% | 21.5 | 15 | \$27,646 | 88% | 1.5 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Lodging | Cooling Central | Early | ton | 426,402 | 23% | 35.3 | 15 | \$302,924 | 88% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Lodging | Cooling Central | New | ton | 385,924 | 14% | 20.5 | 15 | \$115,432 | 88% | 0.3 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Lodging | Cooling Central | ROB | ton | 426,402 | 23% | 35.3 | 15 | \$115,432 | 88% | 0.6 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Lodging | Cooling Central | Early | ton | 511,682 | 23% | 42.4 | 15 | \$350,154 | 88% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Lodging | Cooling Central | New | ton | 463,109 | 14% | 24.6 | 15 | \$120,406 | 88% | 0.4 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Lodging | Cooling Central | ROB | ton | 511,682 | 23% | 42.4 | 15 | \$120,406 | 88% | 0.7 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Lodging | Cooling Central | Early | ton | 113,419 | 29% | 12.2 | 15 | \$83,632 | 88% | 0.3 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Lodging | Cooling Central | New | ton | 88,068 | 8.9% | 2.9 | 15 | \$40,211 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Lodging | Cooling Central | ROB | ton | 113,419 | 29% | 12.2 | 15 | \$40,211 | 88% | 0.6 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Lodging | Cooling Central | Early | ton | 194,882 | 35% | 24.9 | 15 | \$132,173 | 88% | 0.4 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Lodging | Cooling Central | New | ton | 145,348 | 13% | 6.7 | 15 | \$39,556 | 88% | 0.3 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Lodging | Cooling Central | ROB | ton | 145,348 | 13% | 6.7 | 15 | \$39,556 | 88% | 0.3 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Lodging | Cooling Central | Early | ton | 325,370 | 39% | 46.7 | 15 | \$187,029 | 88% | 0.5 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Lodging | Cooling Central | New | ton | 231,984 | 15% | 12.4 | 15 | \$33,554 | 88% | 0.7 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Lodging | Cooling Central | ROB | ton | 325,370 | 39% | 46.7 | 15 | \$33,554 | 88% | 2.7 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Lodging | Cooling Central | Early | ton | 56,935 | 30% | 6.2 | 15 | \$32,398 | 88% | 0.4 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Lodging | Cooling Central | New | ton | 45,108 | 11% | 1.8 | 15 | \$7,188 | 88% | 0.5 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Lodging | Cooling Central | ROB | ton | 56,935 | 30% | 6.2 | 15 | \$7,188 | 88% | 1.7 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Lodging | Cooling Central | Existing | building | 4,934 | 3.5% | 0.04 | 10 | \$2,396 | 81% | 0.0 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Lodging | Cooling Central | New | building | 4,934 | 3.5% | 0.04 | 10 | \$2,396 | 81% | 0.0 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Lodging | Cooling Central | Existing | building | 4,934 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.2 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Lodging | Cooling Central | New | building | 4,934 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.3 |
| FE-Penn Power | Re-Commissioning (Existing Construction) | No Re-Commissioning | Lodging | Cooling Central | Existing | building | 4,934 | 16% | 0.2 | 5 | \$12,530 | 86% | 0.0 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Lodging | Cooling Central | Existing | building | 4,934 | 8.0% | 0.08 | 15 | \$6,019 | 26% | 0.0 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Lodging | Cooling Central | New | building | 4,934 | 0.2% | 0.00 | 15 | \$4,617 | 94% | 0.0 |
| FE-Penn Power | <65k BTU/hr 14 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Lodging | Cooling Unitary | Early | ton | 4,519 | 16% | 0.4 | 15 | \$1,545 | 29% | 0.4 |
| FE-Penn Power | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Lodging | Cooling Unitary | New | ton | 4,093 | 7.1% | 0.2 | 15 | \$339 | 29% | 0.8 |
| FE-Penn Power | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Lodging | Cooling Unitary | ROB | ton | 4,093 | 7.1% | 0.2 | 15 | \$339 | 29% | 0.8 |
| FE-Penn Power | <65k BTU/hr 15 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Lodging | Cooling Unitary | Early | ton | 4,519 | 22% | 0.5 | 15 | \$1,821 | 30% | 0.5 |
| FE-Penn Power | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Lodging | Cooling Unitary | New | ton | 4,093 | 13% | 0.3 | 15 | \$714 | 30% | 0.7 |
| FE-Penn Power | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Lodging | Cooling Unitary | ROB | ton | 4,093 | 13% | 0.3 | 15 | \$714 | 30% | 0.7 |
| FE-Penn Power | <65k BTU/hr 16 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Lodging | Cooling Unitary | Early | ton | 4,519 | 26% | 0.7 | 15 | \$2,098 | 31% | 0.5 |
| FE-Penn Power | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Lodging | Cooling Unitary | New | ton | 4,093 | 19% | 0.4 | 15 | \$1,089 | 31% | 0.6 |
| FE-Penn Power | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Lodging | Cooling Unitary | ROB | ton | 4,093 | 19% | 0.4 | 15 | \$1,089 | 31% | 0.6 |
| FE-Penn Power | >760k min 10.2 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Lodging | Cooling Unitary | Early | ton | 114,336 | 3.7% | 2.4 | 15 | \$68,066 | 56% | 0.1 |
| FE-Penn Power | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Lodging | Cooling Unitary | New | ton | 115,802 | 4.9% | 3.2 | 15 | \$6,231 | 56% | 0.8 |
| FE-Penn Power | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Lodging | Cooling Unitary | ROB | ton | 115,802 | 4.9% | 3.2 | 15 | \$6,231 | 56% | 0.8 |
| FE-Penn Power | 135-240k min 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Lodging | Cooling Unitary | Early | ton | 28,133 | 18% | 2.9 | 15 | \$18,135 | 79% | 0.2 |
| FE-Penn Power | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Lodging | Cooling Unitary | New | ton | 25,591 | 10.0% | 1.4 | 15 | \$1,948 | 79% | 1.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|--|---------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Lodging | Cooling Unitary | ROB | ton | 25,591 | 10.0% | 1.4 | 15 | \$1,948 | 79% | 1.1 |
| FE-Penn Power | 240k-760k min 11 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Lodging | Cooling Unitary | Early | ton | 75,221 | 9.0% | 3.8 | 15 | \$44,809 | 66% | 0.1 |
| FE-Penn Power | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Lodging | Cooling Unitary | New | ton | 75,408 | 9.3% | 3.9 | 15 | \$4,813 | 66% | 1.3 |
| FE-Penn Power | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Lodging | Cooling Unitary | ROB | ton | 75,408 | 9.3% | 3.9 | 15 | \$4,813 | 66% | 1.3 |
| FE-Penn Power | 65k-135k BTU/hr 12 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Lodging | Cooling Unitary | Early | ton | 16,584 | 17% | 1.6 | 15 | \$10,946 | 86% | 0.2 |
| FE-Penn Power | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Lodging | Cooling Unitary | New | ton | 14,780 | 6.7% | 0.6 | 15 | \$1,392 | 86% | 0.6 |
| FE-Penn Power | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Lodging | Cooling Unitary | ROB | ton | 14,780 | 6.7% | 0.6 | 15 | \$1,392 | 86% | 0.6 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Lodging | Cooling Unitary | Existing | building | 58,851 | 7.1% | 0.07 | 6 | \$17,166 | 82% | 0.1 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Lodging | Cooling Unitary | New | building | 58,851 | 7.1% | 0.07 | 6 | \$17,166 | 82% | 0.1 |
| FE-Penn Power | Adding window shade film | No shade film | Lodging | Cooling Unitary | Existing | building | 58,851 | 1.3% | 0.4 | 10 | \$716 | 12% | 0.7 |
| FE-Penn Power | Adding window shade film | No shade film | Lodging | Cooling Unitary | New | building | 58,851 | 1.3% | 0.4 | 10 | \$716 | 13% | 0.7 |
| FE-Penn Power | Adding window shade screen | No shade screen | Lodging | Cooling Unitary | Existing | building | 58,851 | 1.1% | 0.01 | 10 | \$277 | 12% | 0.8 |
| FE-Penn Power | Adding window shade screen | No shade screen | Lodging | Cooling Unitary | New | building | 58,851 | 1.1% | 0.01 | 10 | \$277 | 13% | 0.8 |
| FE-Penn Power | Automated control system | Manual Controls | Lodging | Cooling Unitary | Existing | building | 58,851 | 17% | 0.2 | 15 | \$64,428 | 51% | 0.1 |
| FE-Penn Power | Automated control system | Manual Controls | Lodging | Cooling Unitary | New | building | 58,851 | 17% | 0.2 | 15 | \$64,428 | 94% | 0.1 |
| FE-Penn Power | Ceiling Insulations (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Lodging | Cooling Unitary | Existing | building | 58,851 | 3.4% | 0.03 | 15 | \$23,552 | 71% | 0.0 |
| FE-Penn Power | Ceiling Insulations (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Lodging | Cooling Unitary | New | building | 58,851 | 1.1% | 0.01 | 15 | \$22,387 | 94% | 0.0 |
| FE-Penn Power | Commercial energy recovery ventilation systems | No Commercial Recovery System | Lodging | Cooling Unitary | Existing | building | 58,851 | 16% | 0.2 | 14 | \$53,180 | 71% | 0.1 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Lodging | Cooling Unitary | Existing | building | 58,851 | 1.4% | 0.04 | 15 | \$467 | 20% | 0.8 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Lodging | Cooling Unitary | New | building | 58,851 | 1.4% | 0.04 | 15 | \$467 | 10% | 0.8 |
| FE-Penn Power | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Lodging | Cooling Unitary | Existing | building | 32,161 | 13% | 0.1 | 1 | \$308 | 73% | 0.7 |
| FE-Penn Power | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Lodging | Cooling Unitary | New | building | 32,161 | 13% | 0.1 | 1 | \$308 | 73% | 0.7 |
| FE-Penn Power | ECM Motors for split systems | Std Shaded Pole Motor | Lodging | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.4 |
| FE-Penn Power | ECM Motors for split systems | Std Shaded Pole Motor | Lodging | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.4 |
| FE-Penn Power | Facility Commissioning | No Facility Commissioning | Lodging | Cooling Unitary | New | building | 58,851 | 16% | 0.2 | 10 | \$955 | 89% | 3.3 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Lodging | Cooling Unitary | Existing | building | 58,851 | 7.1% | 0.07 | 15 | \$261,049 | 25% | 0.0 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Lodging | Cooling Unitary | New | building | 58,851 | 7.1% | 0.07 | 15 | \$261,049 | 35% | 0.0 |
| FE-Penn Power | Hi Eff HVAC System Design | No HVAC Design | Lodging | Cooling Unitary | New | building | 58,851 | 7.3% | 0.07 | 10 | \$6,585 | 51% | 0.2 |
| FE-Penn Power | Hotel Occupancy Sensor | HVAC system w/out Occupancy Sensors | Lodging | Cooling Unitary | Existing | building | 58,851 | 3.5% | 0.04 | 15 | \$11,644 | 89% | 0.1 |
| FE-Penn Power | Hotel Occupancy Sensor | HVAC system w/out Occupancy Sensors | Lodging | Cooling Unitary | New | building | 58,851 | 3.5% | 0.04 | 15 | \$11,644 | 94% | 0.1 |
| FE-Penn Power | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Lodging | Cooling Unitary | Existing | building | 58,851 | 5.0% | 0.05 | 5 | \$225 | 59% | 2.6 |
| FE-Penn Power | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Lodging | Cooling Unitary | Existing | building | 58,851 | 0.2% | 0.04 | 5 | \$225 | 51% | 0.2 |
| FE-Penn Power | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Lodging | Cooling Unitary | New | building | 58,851 | 0.2% | 0.04 | 5 | \$135 | 51% | 0.3 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Lodging | Cooling Unitary | Existing | building | 58,851 | 3.5% | 0.04 | 10 | \$2,575 | 86% | 0.3 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Lodging | Cooling Unitary | New | building | 58,851 | 3.5% | 0.04 | 10 | \$2,575 | 86% | 0.3 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) | Lodging | Cooling Unitary | Existing | building | 58,851 | 2.0% | 0.02 | 11 | \$286 | 49% | 1.5 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Lodging | Cooling Unitary | New | building | 58,851 | 1.7% | 0.02 | 11 | \$146 | 49% | 2.5 |
| FE-Penn Power | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Lodging | Cooling Unitary | Early | unit | 745 | 19% | 0.05 | 15 | \$849 | 85% | 0.1 |
| FE-Penn Power | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Lodging | Cooling Unitary | New | unit | 753 | 20% | 0.06 | 15 | \$356 | 85% | 0.3 |
| FE-Penn Power | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Lodging | Cooling Unitary | ROB | unit | 753 | 20% | 0.06 | 15 | \$356 | 85% | 0.3 |
| FE-Penn Power | Re-Commissioning (Existing Construction) | No Re-Commissioning | Lodging | Cooling Unitary | Existing | building | 58,851 | 16% | 0.2 | 5 | \$12,530 | 86% | 0.2 |
| FE-Penn Power | Room AC (w/ louvered sides) | Existing efficiency Room AC in Pennsylvania (2000 Federal Standards) | Lodging | Cooling Unitary | Early | ton | 2,133 | 13% | 0.1 | 9 | \$348 | 82% | 0.4 |
| FE-Penn Power | Room AC (w/ louvered sides) | Std Room AC (Code Min. Federal Standards) | Lodging | Cooling Unitary | New | ton | 1,934 | 4.5% | 0.03 | 9 | \$17 | 82% | 2.6 |
| FE-Penn Power | Room AC (w/ louvered sides) | Std Room AC (Code Min. Federal Standards) | Lodging | Cooling Unitary | ROB | ton | 1,934 | 4.5% | 0.03 | 9 | \$17 | 82% | 2.6 |
| FE-Penn Power | Wall Insulations (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Lodging | Cooling Unitary | Existing | building | 58,851 | 8.2% | 0.08 | 15 | \$6,019 | 26% | 0.4 |
| FE-Penn Power | Wall Insulations (Going upto R 21) | Code minimum Wall Insulations | Lodging | Cooling Unitary | New | building | 58,851 | 0.2% | 0.00 | 15 | \$4,617 | 94% | 0.0 |
| FE-Penn Power | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Lodging | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 0.9 |
| FE-Penn Power | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Lodging | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.0 |
| FE-Penn Power | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Lodging | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.1 |
| FE-Penn Power | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Lodging | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 0% | 0.1 |
| FE-Penn Power | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Lodging | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-Penn Power | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Lodging | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-Penn Power | LED exterior lighting | 250 Watt Incandescent | Lodging | Ext. Lighting | ROB | measure | 529 | 83% | 0.07 | 15 | \$104 | 89% | 2.3 |
| FE-Penn Power | LED exterior lighting | 250 Watt Incandescent | Lodging | Ext. Lighting | ROB | measure | 529 | 83% | 0.07 | 15 | \$104 | 89% | 2.3 |
| FE-Penn Power | LED exterior lighting | 250 Watt Incandescent | Lodging | Ext. Lighting | ROB | measure | 529 | 83% | 0.07 | 15 | \$104 | 89% | 2.3 |
| FE-Penn Power | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Lodging | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 75% | 0.2 |
| FE-Penn Power | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Lodging | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 75% | 0.2 |
| FE-Penn Power | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Lodging | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.3 |
| FE-Penn Power | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Lodging | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 1.7 |
| FE-Penn Power | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Lodging | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.3 |
| FE-Penn Power | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Lodging | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 1.7 |
| FE-Penn Power | Photocell Controls (Outdoor) | Lighting w/ No Controls | Lodging | Ext. Lighting | Existing | building | 858 | 28% | 0.3 | 8 | \$4,117 | 88% | 0.1 |
| FE-Penn Power | Photocell Controls (Outdoor) | Lighting w/ No Controls | Lodging | Ext. Lighting | New | building | 858 | 28% | 0.3 | 8 | \$4,117 | 0% | 0.1 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Lodging | Heat Pump | Existing | building | 5,310 | 6.9% | 0.07 | 6 | \$17,166 | 82% | 0.0 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Lodging | Heat Pump | New | building | 5,310 | 6.9% | 0.07 | 6 | \$17,166 | 82% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|--|---|---------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Adding window shade film | No shade film | Lodging | Heat Pump | Existing | building | 5,310 | 3.9% | 0.4 | 10 | \$65 | 12% | 4.5 |
| FE-Penn Power | Adding window shade film | No shade film | Lodging | Heat Pump | New | building | 5,310 | 3.9% | 0.4 | 10 | \$65 | 12% | 4.5 |
| FE-Penn Power | Adding window shade screen | No shade screen | Lodging | Heat Pump | Existing | building | 5,310 | 0.3% | 0.01 | 10 | \$8.3 | 12% | 1.4 |
| FE-Penn Power | Adding window shade screen | No shade screen | Lodging | Heat Pump | New | building | 5,310 | 0.3% | 0.01 | 10 | \$8.3 | 12% | 1.4 |
| FE-Penn Power | Automated control system | Manual Controls | Lodging | Heat Pump | Existing | building | 5,310 | 17% | 0.2 | 15 | \$5,814 | 51% | 0.1 |
| FE-Penn Power | Automated control system | Manual Controls | Lodging | Heat Pump | New | building | 5,310 | 17% | 0.2 | 15 | \$5,814 | 94% | 0.1 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Lodging | Heat Pump | Existing | building | 5,310 | 3.3% | 0.03 | 15 | \$23,552 | 71% | 0.0 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Lodging | Heat Pump | New | building | 5,310 | 1.1% | 0.01 | 15 | \$22,387 | 94% | 0.0 |
| FE-Penn Power | Commercial energy recovery ventilation systems | No Commercial Recovery System | Lodging | Heat Pump | Existing | building | 5,310 | 16% | 0.2 | 14 | \$327,111 | 71% | 0.0 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Lodging | Heat Pump | Existing | building | 5,310 | 4.0% | 0.04 | 15 | \$42 | 12% | 2.7 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Lodging | Heat Pump | New | building | 5,310 | 4.0% | 0.04 | 15 | \$42 | 6% | 2.7 |
| FE-Penn Power | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Lodging | Heat Pump | Early | heat pump | 4,997 | 11% | 0.05 | 15 | \$4,070 | 83% | 0.1 |
| FE-Penn Power | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Lodging | Heat Pump | New | heat pump | 4,811 | 7.9% | 0.03 | 15 | \$1,097 | 83% | 0.2 |
| FE-Penn Power | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Lodging | Heat Pump | ROB | heat pump | 4,811 | 7.9% | 0.03 | 15 | \$1,097 | 83% | 0.2 |
| FE-Penn Power | Facility Commissioning | No Facility Commissioning | Lodging | Heat Pump | New | building | 5,310 | 16% | 0.2 | 10 | \$2,255 | 89% | 0.2 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Lodging | Heat Pump | Existing | building | 5,310 | 7.0% | 0.07 | 15 | \$23,555 | 25% | 0.0 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Lodging | Heat Pump | New | building | 5,310 | 7.0% | 0.07 | 15 | \$23,555 | 35% | 0.0 |
| FE-Penn Power | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Lodging | Heat Pump | Early | heat pump | 51,977 | 14% | 0.6 | 15 | \$91,117 | 19% | 0.0 |
| FE-Penn Power | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Lodging | Heat Pump | New | heat pump | 50,436 | 12% | 0.5 | 15 | \$33,927 | 19% | 0.1 |
| FE-Penn Power | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Lodging | Heat Pump | ROB | heat pump | 50,436 | 12% | 0.5 | 15 | \$33,927 | 19% | 0.1 |
| FE-Penn Power | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Lodging | Heat Pump | Early | heat pump | 51,977 | 14% | 0.6 | 15 | \$58,356 | 19% | 0.1 |
| FE-Penn Power | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Lodging | Heat Pump | New | heat pump | 50,436 | 12% | 0.5 | 15 | \$1,167 | 19% | 2.3 |
| FE-Penn Power | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Lodging | Heat Pump | ROB | heat pump | 50,436 | 12% | 0.5 | 15 | \$1,167 | 19% | 2.3 |
| FE-Penn Power | Hi Eff HVAC System Design | No HVAC Design | Lodging | Heat Pump | New | building | 5,310 | 7.3% | 0.07 | 10 | \$64,531 | 51% | 0.0 |
| FE-Penn Power | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Lodging | Heat Pump | Early | heat pump | 13,639 | 16% | 0.2 | 12 | \$4,298 | 81% | 0.2 |
| FE-Penn Power | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Lodging | Heat Pump | Early | heat pump | 13,639 | 26% | 0.3 | 12 | \$5,883 | 81% | 0.2 |
| FE-Penn Power | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Lodging | Heat Pump | New | heat pump | 13,113 | 12% | 0.1 | 12 | \$852 | 81% | 0.7 |
| FE-Penn Power | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Lodging | Heat Pump | New | heat pump | 13,113 | 23% | 0.3 | 12 | \$2,437 | 81% | 0.5 |
| FE-Penn Power | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Lodging | Heat Pump | ROB | heat pump | 13,113 | 12% | 0.1 | 12 | \$852 | 81% | 0.7 |
| FE-Penn Power | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Lodging | Heat Pump | ROB | heat pump | 13,113 | 23% | 0.3 | 12 | \$2,437 | 81% | 0.5 |
| FE-Penn Power | Hotel Occupancy Sensor | HVAC system w/out Occupancy Sensors | Lodging | Heat Pump | Existing | building | 5,310 | 3.5% | 0.04 | 15 | \$11,644 | 89% | 0.0 |
| FE-Penn Power | Hotel Occupancy Sensor | HVAC system w/out Occupancy Sensors | Lodging | Heat Pump | New | building | 5,310 | 3.5% | 0.04 | 15 | \$11,644 | 94% | 0.0 |
| FE-Penn Power | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Lodging | Heat Pump | Existing | building | 5,310 | 5.0% | 0.02 | 5 | \$90 | 51% | 0.6 |
| FE-Penn Power | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Lodging | Heat Pump | New | building | 5,310 | 5.0% | 0.02 | 5 | \$90 | 51% | 0.6 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Lodging | Heat Pump | Existing | building | 5,310 | 3.5% | 0.04 | 10 | \$2,292 | 81% | 0.0 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Lodging | Heat Pump | New | building | 5,310 | 3.5% | 0.04 | 10 | \$2,292 | 81% | 0.0 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Lodging | Heat Pump | Existing | building | 5,310 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.2 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Lodging | Heat Pump | New | building | 5,310 | 2.1% | 0.02 | 11 | \$146 | 49% | 0.3 |
| FE-Penn Power | Re-Commissioning (Existing Construction) | No Re-Commissioning | Lodging | Heat Pump | Existing | building | 5,310 | 16% | 0.2 | 5 | \$12,530 | 86% | 0.0 |
| FE-Penn Power | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Lodging | Heat Pump | New | measure | 763,332 | 2.0% | 1.7 | 13 | \$96,095 | 43% | 0.1 |
| FE-Penn Power | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Lodging | Heat Pump | ROB | measure | 763,332 | 2.0% | 1.7 | 13 | \$96,095 | 43% | 0.1 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Lodging | Heat Pump | Existing | building | 5,310 | 8.0% | 0.08 | 15 | \$6,019 | 26% | 0.0 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Lodging | Heat Pump | New | building | 5,310 | 0.2% | 0.00 | 15 | \$4,617 | 94% | 0.0 |
| FE-Penn Power | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Lodging | Heat Pump | Early | heat pump | 22,251 | 37% | 0.7 | 15 | \$35,347 | 28% | 0.1 |
| FE-Penn Power | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Lodging | Heat Pump | New | heat pump | 21,375 | 35% | 0.6 | 15 | \$15,739 | 28% | 0.2 |
| FE-Penn Power | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Lodging | Heat Pump | ROB | heat pump | 21,375 | 35% | 0.6 | 15 | \$15,739 | 28% | 0.2 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Lodging | High Bay Lighting | Early | Fixture | 754 | 9.6% | 0.01 | 13 | \$850 | 39% | 0.0 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Lodging | High Bay Lighting | Early | Fixture | 753 | 9.5% | 0.01 | 13 | \$850 | 28% | 0.0 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Lodging | High Bay Lighting | Early | Fixture | 1,162 | 41% | 0.07 | 13 | \$850 | 36% | 0.3 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Lodging | High Bay Lighting | New | Fixture | 573 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Lodging | High Bay Lighting | New | Fixture | 533 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Lodging | High Bay Lighting | New | Fixture | 883 | 41% | 0.05 | 13 | \$397 | 36% | 0.5 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Lodging | High Bay Lighting | ROB | Fixture | 754 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Lodging | High Bay Lighting | ROB | Fixture | 701 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Lodging | High Bay Lighting | ROB | Fixture | 1,162 | 41% | 0.07 | 13 | \$397 | 36% | 0.6 |
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Lodging | High Bay Lighting | Early | Fixture | 1,463 | 19% | 0.04 | 13 | \$851 | 38% | 0.2 |
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Lodging | High Bay Lighting | Early | Fixture | 1,481 | 20% | 0.04 | 13 | \$851 | 38% | 0.2 |
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | Early | Fixture | 4,309 | 73% | 0.5 | 13 | \$851 | 38% | 1.8 |
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Lodging | High Bay Lighting | New | Fixture | 1,112 | 19% | 0.03 | 13 | \$372 | 38% | 0.3 |
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | New | Fixture | 3,275 | 73% | 0.4 | 13 | \$383 | 38% | 3.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|---|---------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Lodging | High Bay Lighting | ROB | Fixture | 1,463 | 19% | 0.04 | 13 | \$372 | 38% | 0.4 |
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | ROB | Fixture | 4,309 | 73% | 0.5 | 13 | \$383 | 38% | 4.0 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Lodging | High Bay Lighting | Early | Fixture | 1,463 | 25% | 0.05 | 13 | \$554 | 29% | 0.3 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Lodging | High Bay Lighting | Early | Fixture | 1,436 | 23% | 0.05 | 13 | \$554 | 28% | 0.3 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | Early | Fixture | 4,309 | 74% | 0.5 | 13 | \$554 | 36% | 2.9 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Lodging | High Bay Lighting | New | Fixture | 1,112 | 25% | 0.04 | 13 | \$75 | 29% | 1.8 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | New | Fixture | 3,275 | 74% | 0.4 | 13 | \$86 | 36% | 14.0 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Lodging | High Bay Lighting | ROB | Fixture | 1,463 | 25% | 0.05 | 13 | \$75 | 29% | 2.4 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | ROB | Fixture | 4,309 | 74% | 0.5 | 13 | \$86 | 36% | 18.5 |
| FE-Penn Power | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Lodging | High Bay Lighting | Early | Fixture | 381 | 0.2% | 0.00 | 13 | \$835 | 38% | 0.0 |
| FE-Penn Power | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Lodging | High Bay Lighting | Early | Fixture | 822 | 54% | 0.07 | 13 | \$835 | 38% | 0.3 |
| FE-Penn Power | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Lodging | High Bay Lighting | New | Fixture | 625 | 54% | 0.05 | 13 | \$382 | 38% | 0.4 |
| FE-Penn Power | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Lodging | High Bay Lighting | ROB | Fixture | 822 | 54% | 0.07 | 13 | \$382 | 38% | 0.6 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Lodging | High Bay Lighting | Early | Fixture | 1,864 | 18% | 0.05 | 13 | \$487 | 25% | 0.3 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Lodging | High Bay Lighting | Early | Fixture | 1,949 | 22% | 0.06 | 13 | \$487 | 28% | 0.4 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | Early | Fixture | 4,309 | 65% | 0.4 | 13 | \$487 | 36% | 2.8 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Lodging | High Bay Lighting | New | Fixture | 1,417 | 18% | 0.04 | 13 | \$16 | 25% | 7.9 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | New | Fixture | 3,275 | 65% | 0.3 | 13 | \$18 | 36% | 56.9 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Lodging | High Bay Lighting | ROB | Fixture | 1,864 | 18% | 0.05 | 13 | \$16 | 25% | 10.3 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | ROB | Fixture | 4,309 | 65% | 0.4 | 13 | \$18 | 36% | 74.8 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Lodging | High Bay Lighting | Early | Fixture | 1,864 | 1.5% | 0.00 | 13 | \$557 | 19% | 0.0 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Lodging | High Bay Lighting | Early | Fixture | 1,919 | 4.3% | 0.01 | 13 | \$557 | 19% | 0.1 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | Early | Fixture | 4,309 | 57% | 0.4 | 13 | \$557 | 19% | 2.2 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Lodging | High Bay Lighting | New | Fixture | 1,417 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | New | Fixture | 3,275 | 57% | 0.3 | 13 | \$88 | 19% | 10.5 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Lodging | High Bay Lighting | ROB | Fixture | 1,864 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.2 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | ROB | Fixture | 4,309 | 57% | 0.4 | 13 | \$88 | 19% | 13.9 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Lodging | High Bay Lighting | Early | Fixture | 791 | 29% | 0.02 | 13 | \$492 | 71% | 0.2 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Lodging | High Bay Lighting | Early | Fixture | 662 | 15% | 0.01 | 13 | \$492 | 95% | 0.1 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Lodging | High Bay Lighting | Early | Fixture | 983 | 43% | 0.04 | 13 | \$492 | 95% | 0.4 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Lodging | High Bay Lighting | Early | Fixture | 911 | 38% | 0.04 | 13 | \$492 | 95% | 0.3 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Lodging | High Bay Lighting | New | Fixture | 503 | 15% | 0.01 | 13 | \$25 | 95% | 1.4 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Lodging | High Bay Lighting | New | Fixture | 747 | 43% | 0.03 | 13 | \$51 | 95% | 2.9 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Lodging | High Bay Lighting | ROB | Fixture | 662 | 15% | 0.01 | 13 | \$25 | 95% | 1.8 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Lodging | High Bay Lighting | ROB | Fixture | 983 | 43% | 0.04 | 13 | \$51 | 95% | 3.8 |
| FE-Penn Power | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Lodging | High Bay Lighting | Early | lamp | 147 | 16% | 0.00 | 7 | \$7.7 | 99% | 1.1 |
| FE-Penn Power | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Lodging | High Bay Lighting | New | lamp | 87 | 13% | 0.00 | 7 | \$1.6 | 91% | 2.4 |
| FE-Penn Power | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Lodging | High Bay Lighting | ROB | lamp | 141 | 13% | 0.00 | 7 | \$1.6 | 91% | 3.8 |
| FE-Penn Power | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Lodging | High Bay Lighting | Early | Fixture | 4,409 | 23% | 0.2 | 13 | \$613 | 5% | 0.8 |
| FE-Penn Power | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Lodging | High Bay Lighting | Early | Fixture | 3,464 | 1.6% | 0.01 | 13 | \$613 | 28% | 0.0 |
| FE-Penn Power | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | Early | Fixture | 8,618 | 60% | 0.8 | 13 | \$613 | 18% | 4.2 |
| FE-Penn Power | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Lodging | High Bay Lighting | New | Fixture | 3,351 | 23% | 0.1 | 13 | \$96 | 5% | 3.9 |
| FE-Penn Power | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Lodging | High Bay Lighting | ROB | Fixture | 4,409 | 23% | 0.2 | 13 | \$96 | 5% | 5.1 |
| FE-Penn Power | Auto Off Time Switch | Lighting w/ No Controls | Lodging | High Bay Lighting | Existing | building | 1,142 | 24% | 0.2 | 8 | \$837 | 13% | 0.2 |
| FE-Penn Power | Auto Off Time Switch | Lighting w/ No Controls | Lodging | High Bay Lighting | New | building | 1,142 | 6.9% | 0.07 | 8 | \$837 | 0% | 0.1 |
| FE-Penn Power | Central Lighting Control System | Lighting w/ No Controls | Lodging | High Bay Lighting | Existing | building | 1,142 | 38% | 0.4 | 8 | \$837 | 13% | 0.4 |
| FE-Penn Power | Central Lighting Control System | Lighting w/ No Controls | Lodging | High Bay Lighting | New | building | 1,142 | 14% | 0.1 | 8 | \$837 | 13% | 0.1 |
| FE-Penn Power | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Lodging | High Bay Lighting | New | building | 1,142 | 10% | 0.1 | 15 | \$45,527 | 32% | 0.0 |
| FE-Penn Power | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Lodging | High Bay Lighting | New | building | 1,142 | 15% | 0.2 | 15 | \$113,817 | 32% | 0.0 |
| FE-Penn Power | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Lodging | High Bay Lighting | New | building | 1,142 | 30% | 0.3 | 15 | \$163,138 | 32% | 0.0 |
| FE-Penn Power | Indoor Daylight Sensors | Lighting w/ No Controls | Lodging | High Bay Lighting | Existing | building | 1,142 | 28% | 0.3 | 8 | \$4,117 | 13% | 0.1 |
| FE-Penn Power | Indoor Daylight Sensors | Lighting w/ No Controls | Lodging | High Bay Lighting | New | building | 1,142 | 4.1% | 0.04 | 8 | \$4,117 | 0% | 0.0 |
| FE-Penn Power | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Lodging | High Bay Lighting | Early | Fixture | 4,409 | 92% | 0.6 | 13 | \$1,916 | 95% | 1.0 |
| FE-Penn Power | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | Early | Fixture | 8,618 | 96% | 1.2 | 13 | \$1,916 | 95% | 2.1 |
| FE-Penn Power | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Lodging | High Bay Lighting | New | Fixture | 3,351 | 92% | 0.5 | 13 | \$1,468 | 95% | 1.0 |
| FE-Penn Power | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | New | Fixture | 6,550 | 96% | 0.9 | 13 | \$1,149 | 95% | 2.7 |
| FE-Penn Power | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Lodging | High Bay Lighting | ROB | Fixture | 4,409 | 92% | 0.6 | 13 | \$1,468 | 95% | 1.4 |
| FE-Penn Power | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | ROB | Fixture | 8,618 | 96% | 1.2 | 13 | \$1,149 | 95% | 3.6 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Lodging | High Bay Lighting | Early | Fixture | 1,463 | 67% | 0.1 | 13 | \$960 | 95% | 0.5 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Lodging | High Bay Lighting | Early | Fixture | 4,309 | 89% | 0.6 | 13 | \$960 | 95% | 2.0 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Lodging | High Bay Lighting | Early | Fixture | 1,183 | 59% | 0.1 | 13 | \$960 | 95% | 0.4 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Lodging | High Bay Lighting | New | Fixture | 1,112 | 67% | 0.1 | 13 | \$480 | 95% | 0.8 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Lodging | High Bay Lighting | New | Fixture | 3,275 | 89% | 0.4 | 13 | \$491 | 95% | 2.9 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Lodging | High Bay Lighting | New | Fixture | 899 | 59% | 0.08 | 13 | \$406 | 95% | 0.6 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Lodging | High Bay Lighting | ROB | Fixture | 1,463 | 67% | 0.1 | 13 | \$480 | 95% | 1.0 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Lodging | High Bay Lighting | ROB | Fixture | 4,309 | 89% | 0.6 | 13 | \$491 | 95% | 3.8 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Lodging | High Bay Lighting | ROB | Fixture | 1,183 | 59% | 0.1 | 13 | \$406 | 95% | 0.8 |
| FE-Penn Power | Occupancy Sensor | Lighting w/ No Controls | Lodging | High Bay Lighting | Existing | building | 1,142 | 24% | 0.2 | 8 | \$1,260 | 12% | 0.2 |
| FE-Penn Power | Occupancy Sensor | Lighting w/ No Controls | Lodging | High Bay Lighting | New | building | 1,142 | 6.9% | 0.07 | 8 | \$1,260 | 0% | 0.0 |
| FE-Penn Power | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Lodging | High Bay Lighting | Existing | building | 1,142 | 28% | 0.3 | 8 | \$4,117 | 12% | 0.1 |
| FE-Penn Power | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Lodging | High Bay Lighting | New | building | 1,142 | 4.1% | 0.04 | 8 | \$4,117 | 0% | 0.0 |
| FE-Penn Power | Time Clock Control | Lighting w/ No Controls | Lodging | High Bay Lighting | Existing | building | 1,142 | 28% | 0.3 | 8 | \$837 | 13% | 0.3 |
| FE-Penn Power | Time Clock Control | Lighting w/ No Controls | Lodging | High Bay Lighting | New | building | 1,142 | 4.0% | 0.04 | 8 | \$837 | 0% | 0.0 |
| FE-Penn Power | Auto Off Time Switch | Lighting w/ No Controls | Lodging | Lin. Fluor. Lighting | Existing | building | 28,137 | 24% | 0.2 | 8 | \$837 | 13% | 2.4 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|--|---------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Auto Off Time Switch | Lighting w/ No Controls | Lodging | Lin. Fluor. Lighting | New | building | 28,137 | 7.0% | 0.07 | 8 | \$837 | 0% | 0.7 |
| FE-Penn Power | Central Lighting Control System | Lighting w/ No Controls | Lodging | Lin. Fluor. Lighting | Existing | building | 28,137 | 38% | 0.4 | 8 | \$837 | 12% | 3.8 |
| FE-Penn Power | Central Lighting Control System | Lighting w/ No Controls | Lodging | Lin. Fluor. Lighting | New | building | 28,137 | 14% | 0.1 | 8 | \$837 | 12% | 1.4 |
| FE-Penn Power | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Lodging | Lin. Fluor. Lighting | New | building | 28,137 | 10% | 0.1 | 15 | \$45,527 | 32% | 0.0 |
| FE-Penn Power | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Lodging | Lin. Fluor. Lighting | New | building | 28,137 | 15% | 0.2 | 15 | \$113,817 | 32% | 0.0 |
| FE-Penn Power | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Lodging | Lin. Fluor. Lighting | New | building | 28,137 | 30% | 0.3 | 15 | \$163,138 | 32% | 0.0 |
| FE-Penn Power | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Lodging | Lin. Fluor. Lighting | Early | Lamp | 295 | 38% | 0.02 | 7 | \$7.3 | 94% | 5.1 |
| FE-Penn Power | Indoor Daylight Sensors | Lighting w/ No Controls | Lodging | Lin. Fluor. Lighting | Existing | building | 28,137 | 28% | 0.3 | 8 | \$4,117 | 13% | 0.6 |
| FE-Penn Power | Indoor Daylight Sensors | Lighting w/ No Controls | Lodging | Lin. Fluor. Lighting | New | building | 28,137 | 4.1% | 0.04 | 8 | \$4,117 | 0% | 0.1 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | Early | Lamp | 88 | 19% | 0.00 | 14 | \$35 | 94% | 0.3 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 40W T12 Lamp, Magnetic Ballast | Lodging | Lin. Fluor. Lighting | Early | Lamp | 194 | 63% | 0.02 | 14 | \$35 | 94% | 1.8 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | Early | Lamp | 109 | 34% | 0.01 | 14 | \$35 | 94% | 0.6 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | Early | Lamp | 106 | 32% | 0.01 | 14 | \$35 | 94% | 0.5 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | New | Lamp | 67 | 19% | 0.00 | 14 | \$28 | 94% | 0.2 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | New | Lamp | 80 | 32% | 0.00 | 14 | \$29 | 94% | 0.5 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | New | Lamp | 83 | 34% | 0.00 | 14 | \$22 | 94% | 0.7 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | New | Lamp | 80 | 32% | 0.00 | 14 | \$29 | 94% | 0.5 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | ROB | Lamp | 88 | 19% | 0.00 | 14 | \$28 | 94% | 0.3 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | ROB | Lamp | 106 | 32% | 0.01 | 14 | \$29 | 94% | 0.6 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | ROB | Lamp | 109 | 34% | 0.01 | 14 | \$22 | 94% | 0.9 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | ROB | Lamp | 106 | 32% | 0.01 | 14 | \$29 | 94% | 0.6 |
| FE-Penn Power | Occupancy Sensor | Lighting w/ No Controls | Lodging | Lin. Fluor. Lighting | Existing | building | 28,137 | 24% | 0.2 | 8 | \$1,260 | 13% | 1.6 |
| FE-Penn Power | Occupancy Sensor | Lighting w/ No Controls | Lodging | Lin. Fluor. Lighting | New | building | 28,137 | 7.0% | 0.07 | 8 | \$1,260 | 0% | 0.5 |
| FE-Penn Power | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Lodging | Lin. Fluor. Lighting | Existing | building | 28,137 | 28% | 0.3 | 8 | \$4,117 | 12% | 0.6 |
| FE-Penn Power | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Lodging | Lin. Fluor. Lighting | New | building | 28,137 | 4.1% | 0.04 | 8 | \$4,117 | 0% | 0.1 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 40W T12 w/ Magnetic Ballast | Lodging | Lin. Fluor. Lighting | Early | Lamp | 295 | 54% | 0.03 | 7 | \$9.1 | 94% | 5.8 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | Early | Lamp | 189 | 28% | 0.01 | 7 | \$9.1 | 24% | 1.9 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | Early | Lamp | 183 | 26% | 0.01 | 7 | \$9.1 | 94% | 1.7 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | New | Lamp | 139 | 26% | 0.01 | 7 | \$2.5 | 94% | 4.7 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | New | Lamp | 139 | 26% | 0.01 | 7 | \$2.5 | 94% | 4.7 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | New | Lamp | 143 | 28% | 0.01 | 7 | \$2.5 | 24% | 5.3 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | New | Lamp | 139 | 26% | 0.01 | 7 | \$2.5 | 94% | 4.7 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | ROB | Lamp | 183 | 26% | 0.01 | 7 | \$2.5 | 94% | 6.2 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | ROB | Lamp | 183 | 26% | 0.01 | 7 | \$2.5 | 94% | 6.2 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | ROB | Lamp | 189 | 28% | 0.01 | 7 | \$2.5 | 24% | 7.0 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | ROB | Lamp | 183 | 26% | 0.01 | 7 | \$2.5 | 94% | 6.2 |
| FE-Penn Power | T8 Lamp (any length) Electronic Ballast | Standard T12 lamp (any length) | Lodging | Lin. Fluor. Lighting | Early | Lamp | 347 | 42% | 0.02 | 7 | \$14 | 94% | 3.5 |
| FE-Penn Power | Time Clock Control | Lighting w/ No Controls | Lodging | Lin. Fluor. Lighting | Existing | building | 28,137 | 28% | 0.3 | 8 | \$837 | 14% | 2.8 |
| FE-Penn Power | Time Clock Control | Lighting w/ No Controls | Lodging | Lin. Fluor. Lighting | New | building | 28,137 | 4.1% | 0.04 | 8 | \$837 | 0% | 0.4 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | Early | motor | 4,312 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | Early | motor | 4,312 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | Early | motor | 4,312 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | Early | motor | 4,312 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | Early | motor | 4,312 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | New | motor | 4,180 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | New | motor | 4,180 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | New | motor | 4,180 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | New | motor | 4,180 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | ROB | motor | 4,180 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | ROB | motor | 4,180 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | ROB | motor | 4,180 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | ROB | motor | 4,180 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-Penn Power | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | Early | motor | 6,358 | 3.1% | 0.03 | 15 | \$402 | 76% | 0.2 |
| FE-Penn Power | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | Early | motor | 6,358 | 3.1% | 0.03 | 15 | \$402 | 76% | 0.2 |
| FE-Penn Power | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | Early | motor | 6,358 | 3.1% | 0.03 | 15 | \$402 | 76% | 0.2 |
| FE-Penn Power | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | Early | motor | 6,358 | 3.1% | 0.03 | 15 | \$402 | 76% | 0.2 |
| FE-Penn Power | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | Early | motor | 6,358 | 3.1% | 0.03 | 15 | \$402 | 76% | 0.2 |
| FE-Penn Power | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | Early | motor | 6,358 | 3.1% | 0.03 | 15 | \$402 | 76% | 0.2 |
| FE-Penn Power | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | New | motor | 6,198 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.3 |
| FE-Penn Power | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | New | motor | 6,198 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.3 |
| FE-Penn Power | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | New | motor | 6,198 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.3 |
| FE-Penn Power | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | New | motor | 6,198 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|--|---------|---------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | Early | motor | 30,180 | 2.9% | 0.1 | 15 | \$802 | 83% | 0.6 |
| FE-Penn Power | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | Early | motor | 30,180 | 2.9% | 0.1 | 15 | \$802 | 83% | 0.6 |
| FE-Penn Power | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | Early | motor | 30,180 | 2.9% | 0.1 | 15 | \$802 | 83% | 0.6 |
| FE-Penn Power | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | Early | motor | 30,180 | 2.9% | 0.1 | 15 | \$802 | 83% | 0.6 |
| FE-Penn Power | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | Early | motor | 30,180 | 2.9% | 0.1 | 15 | \$802 | 83% | 0.6 |
| FE-Penn Power | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | New | motor | 29,459 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.7 |
| FE-Penn Power | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | New | motor | 29,459 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.7 |
| FE-Penn Power | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | New | motor | 29,459 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.7 |
| FE-Penn Power | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | New | motor | 29,459 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.7 |
| FE-Penn Power | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | ROB | motor | 29,459 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.7 |
| FE-Penn Power | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | ROB | motor | 29,459 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.7 |
| FE-Penn Power | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | ROB | motor | 29,459 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.7 |
| FE-Penn Power | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | ROB | motor | 29,459 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.7 |
| FE-Penn Power | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | Early | motor | 284,527 | 1.3% | 0.5 | 15 | \$3,955 | 61% | 0.5 |
| FE-Penn Power | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | Early | motor | 284,527 | 1.3% | 0.5 | 15 | \$3,955 | 61% | 0.5 |
| FE-Penn Power | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | Early | motor | 284,527 | 1.3% | 0.5 | 15 | \$3,955 | 61% | 0.5 |
| FE-Penn Power | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | Early | motor | 284,527 | 1.3% | 0.5 | 15 | \$3,955 | 61% | 0.5 |
| FE-Penn Power | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | New | motor | 282,182 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.4 |
| FE-Penn Power | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | New | motor | 282,182 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.4 |
| FE-Penn Power | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | New | motor | 282,182 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.4 |
| FE-Penn Power | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | ROB | motor | 282,182 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.4 |
| FE-Penn Power | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | ROB | motor | 282,182 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.4 |
| FE-Penn Power | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | ROB | motor | 282,182 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.4 |
| FE-Penn Power | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | ROB | motor | 282,182 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.4 |
| FE-Penn Power | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | ROB | motor | 282,182 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.4 |
| FE-Penn Power | ASD HVAC Fan | Std. HVAC Fan | Lodging | Motors | New | measure | 10,530 | 6.0% | 0.07 | 15 | \$2,225 | 85% | 0.1 |
| FE-Penn Power | ASD HVAC Fan | Std. HVAC Fan | Lodging | Motors | ROB | measure | 10,530 | 6.0% | 0.07 | 15 | \$2,225 | 85% | 0.1 |
| FE-Penn Power | demand controlled ventilation | Absence of Demand Controlled Ventilation | Lodging | Motors | Early | measure | 10,530 | 14% | 0.2 | 10 | \$5,189 | 92% | 0.1 |
| FE-Penn Power | demand controlled ventilation | Office building thermostat | Lodging | Motors | New | measure | 10,530 | 14% | 0.2 | 10 | \$4,048 | 92% | 0.1 |
| FE-Penn Power | demand controlled ventilation | Office building thermostat | Lodging | Motors | ROB | measure | 10,530 | 14% | 0.2 | 10 | \$4,048 | 92% | 0.1 |
| FE-Penn Power | Downsizing motor during retrofit | Larger hp standard motor | Lodging | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 17.6 |
| FE-Penn Power | Downsizing motor during retrofit | Larger hp standard motor | Lodging | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 17.9 |
| FE-Penn Power | Downsizing motor during retrofit | Larger hp standard motor | Lodging | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 18.4 |
| FE-Penn Power | Downsizing motor during retrofit | Larger hp standard motor | Lodging | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 18.7 |
| FE-Penn Power | Downsizing motor during retrofit | Larger hp standard motor | Lodging | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 19.1 |
| FE-Penn Power | Downsizing motor during retrofit | Larger hp standard motor | Lodging | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 17.7 |
| FE-Penn Power | Downsizing motor during retrofit | Larger hp standard motor | Lodging | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 18.0 |
| FE-Penn Power | Downsizing motor during retrofit | Larger hp standard motor | Lodging | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 18.4 |
| FE-Penn Power | Downsizing motor during retrofit | Larger hp standard motor | Lodging | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 18.8 |
| FE-Penn Power | Downsizing motor during retrofit | Larger hp standard motor | Lodging | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 19.1 |
| FE-Penn Power | Escalator Motor Controller | Constant power control | Lodging | Motors | New | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 36% | 4.8 |
| FE-Penn Power | Escalator Motor Controller | Constant power control | Lodging | Motors | ROB | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 36% | 4.8 |
| FE-Penn Power | Fan Motor - correct sizing | Incorrect Fan Motor Sizing | Lodging | Motors | ROB | measure | 10,530 | 1.6% | 0.02 | 15 | \$50 | 92% | 1.8 |
| FE-Penn Power | Variable Speed Drive Control, 15HP | Existing Motors w/out VSD Drive | Lodging | Motors | Early | motor | 58,917 | 70% | 5.5 | 15 | \$731 | 86% | 28.9 |
| FE-Penn Power | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Lodging | Motors | New | motor | 57,650 | 71% | 5.5 | 15 | \$731 | 86% | 28.9 |
| FE-Penn Power | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Lodging | Motors | ROB | motor | 57,650 | 71% | 5.5 | 15 | \$731 | 86% | 28.9 |
| FE-Penn Power | Variable Speed Drive Control, 40HP | Existing Motors w/out VSD Drive | Lodging | Motors | Early | motor | 153,734 | 71% | 14.4 | 15 | \$4,666 | 86% | 11.9 |
| FE-Penn Power | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Lodging | Motors | New | motor | 151,937 | 72% | 14.4 | 15 | \$4,666 | 86% | 11.9 |
| FE-Penn Power | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Lodging | Motors | ROB | motor | 151,937 | 72% | 14.4 | 15 | \$4,666 | 86% | 11.9 |
| FE-Penn Power | Variable Speed Drive Control, 5HP | Existing Motors w/out VFD Drive | Lodging | Motors | Early | motor | 20,425 | 70% | 1.9 | 15 | \$2,243 | 86% | 3.3 |
| FE-Penn Power | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Lodging | Motors | New | motor | 19,968 | 72% | 1.9 | 15 | \$2,243 | 86% | 3.3 |
| FE-Penn Power | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Lodging | Motors | ROB | motor | 19,968 | 72% | 1.9 | 15 | \$2,243 | 86% | 3.3 |
| FE-Penn Power | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Lodging | Motors | Early | motor | 24,832 | 4.5% | 0.1 | 15 | \$268 | 40% | 2.1 |
| FE-Penn Power | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Lodging | Motors | New | motor | 24,832 | 4.5% | 0.1 | 15 | \$268 | 40% | 2.1 |
| FE-Penn Power | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Lodging | Motors | ROB | motor | 24,832 | 4.5% | 0.1 | 15 | \$268 | 40% | 2.1 |
| FE-Penn Power | VFD on Chilled Water Pump | Motor w/out VFD Drive | Lodging | Motors | Early | motor | 52,290 | 54% | 2.7 | 15 | \$2,903 | 86% | 4.7 |
| FE-Penn Power | VFD on Chilled Water Pump | Motor w/out VFD Drive | Lodging | Motors | New | motor | 51,312 | 55% | 2.7 | 15 | \$2,843 | 86% | 4.8 |
| FE-Penn Power | VFD on Chilled Water Pump | Motor w/out VFD Drive | Lodging | Motors | ROB | motor | 51,312 | 55% | 2.7 | 15 | \$2,843 | 86% | 4.8 |
| FE-Penn Power | VFD on Condenser Water Pump | Motor w/out VFD Drive | Lodging | Motors | Early | motor | 48,179 | 32% | 3.2 | 15 | \$2,903 | 86% | 3.1 |
| FE-Penn Power | VFD on Condenser Water Pump | Motor w/out VFD Drive | Lodging | Motors | New | motor | 47,278 | 33% | 3.1 | 15 | \$2,843 | 86% | 3.1 |
| FE-Penn Power | VFD on Condenser Water Pump | Motor w/out VFD Drive | Lodging | Motors | ROB | motor | 47,278 | 33% | 3.1 | 15 | \$2,843 | 86% | 3.1 |
| FE-Penn Power | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Lodging | Motors | Early | motor | 60,456 | 56% | 0.00 | 15 | \$2,903 | 86% | 4.8 |
| FE-Penn Power | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Lodging | Motors | New | motor | 59,325 | 57% | 0.00 | 15 | \$2,843 | 86% | 4.9 |
| FE-Penn Power | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Lodging | Motors | ROB | motor | 59,325 | 57% | 0.00 | 15 | \$2,843 | 86% | 4.9 |
| FE-Penn Power | VFD on HVAC Fan | Motor w/out VFD | Lodging | Motors | Early | motor | 52,262 | 70% | 3.4 | 15 | \$2,903 | 86% | 6.1 |
| FE-Penn Power | VFD on HVAC Fan | Motor w/out VFD | Lodging | Motors | New | motor | 51,284 | 72% | 3.3 | 15 | \$2,843 | 86% | 6.2 |
| FE-Penn Power | VFD on HVAC Fan | Motor w/out VFD | Lodging | Motors | ROB | motor | 51,284 | 72% | 3.3 | 15 | \$2,843 | 86% | 6.2 |
| FE-Penn Power | Elevators | Std. Eff Elevator | Lodging | Other | ROB | measure | 89,016 | 18% | 1.1 | 15 | \$3,382 | 81% | 2.2 |
| FE-Penn Power | Variable Speed Drives on Process Equipment | Constant speed control | Lodging | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 9.2 |
| FE-Penn Power | Variable Speed Drives on Process Equipment | Constant speed control | Lodging | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 9.2 |
| FE-Penn Power | Auto Off Time Switch | Lighting w/ No Controls | Lodging | Other Int. Lighting | Existing | building | 8,255 | 24% | 0.2 | 8 | \$837 | 13% | 0.8 |
| FE-Penn Power | Auto Off Time Switch | Lighting w/ No Controls | Lodging | Other Int. Lighting | New | building | 8,255 | 7.0% | 0.07 | 8 | \$837 | 0% | 0.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|--|--|---------|---------------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Central Lighting Control System | Lighting w/ No Controls | Lodging | Other Int. Lighting | Existing | building | 8,255 | 38% | 0.4 | 8 | \$837 | 13% | 1.3 |
| FE-Penn Power | Central Lighting Control System | Lighting w/ No Controls | Lodging | Other Int. Lighting | New | building | 8,255 | 14% | 0.1 | 8 | \$837 | 13% | 0.5 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 40W Incandescent Bulb | Lodging | Other Int. Lighting | Early | lamp | 204 | 87% | 0.03 | 7 | \$30 | 14% | 1.9 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Lodging | Other Int. Lighting | Early | lamp | 146 | 81% | 0.02 | 7 | \$30 | 11% | 1.3 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Lodging | Other Int. Lighting | New | lamp | 111 | 81% | 0.01 | 7 | \$21 | 14% | 1.4 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Lodging | Other Int. Lighting | New | lamp | 111 | 81% | 0.01 | 7 | \$23 | 14% | 1.3 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Lodging | Other Int. Lighting | New | lamp | 111 | 81% | 0.01 | 7 | \$22 | 11% | 1.3 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Lodging | Other Int. Lighting | ROB | lamp | 146 | 81% | 0.02 | 7 | \$21 | 14% | 1.8 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Lodging | Other Int. Lighting | ROB | lamp | 146 | 81% | 0.02 | 7 | \$23 | 14% | 1.7 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Lodging | Other Int. Lighting | ROB | lamp | 146 | 81% | 0.02 | 7 | \$22 | 11% | 1.8 |
| FE-Penn Power | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Lodging | Other Int. Lighting | Early | lamp | 204 | 75% | 0.02 | 3 | \$73 | 24% | 0.3 |
| FE-Penn Power | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Lodging | Other Int. Lighting | New | fixture | 222 | 65% | 0.02 | 13 | \$29 | 28% | 2.5 |
| FE-Penn Power | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Lodging | Other Int. Lighting | New | lamp | 111 | 65% | 0.01 | 3 | \$29 | 28% | 0.4 |
| FE-Penn Power | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Lodging | Other Int. Lighting | ROB | fixture | 293 | 65% | 0.03 | 13 | \$29 | 24% | 3.3 |
| FE-Penn Power | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Lodging | Other Int. Lighting | ROB | lamp | 146 | 65% | 0.01 | 3 | \$29 | 24% | 0.5 |
| FE-Penn Power | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Lodging | Other Int. Lighting | Early | lamp | 204 | 75% | 0.02 | 3 | \$3.2 | 24% | 7.8 |
| FE-Penn Power | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Lodging | Other Int. Lighting | New | lamp | 111 | 65% | 0.01 | 3 | \$1.8 | 24% | 6.6 |
| FE-Penn Power | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Lodging | Other Int. Lighting | ROB | lamp | 146 | 65% | 0.01 | 3 | \$1.8 | 24% | 8.7 |
| FE-Penn Power | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Lodging | Other Int. Lighting | ROB | lamp | 146 | 65% | 0.01 | 3 | \$1.8 | 24% | 8.7 |
| FE-Penn Power | Exit Sign Retrofit: CFL replacing Incandescent HE Lighting Fixtures/Design 10% better than code (New Construction) | One 23W Single Sided Incandescent Exit Sign | Lodging | Other Int. Lighting | Early | exit sign | 130 | 42% | 0.01 | 15 | \$48 | 22% | 0.6 |
| FE-Penn Power | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Lodging | Other Int. Lighting | New | building | 8,255 | 10% | 0.1 | 15 | \$45,527 | 32% | 0.0 |
| FE-Penn Power | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Lodging | Other Int. Lighting | New | building | 8,255 | 15% | 0.2 | 15 | \$113,817 | 32% | 0.0 |
| FE-Penn Power | Indoor Daylight Sensors | Lighting w/ No Controls | Lodging | Other Int. Lighting | Existing | building | 8,255 | 28% | 0.3 | 8 | \$4,117 | 13% | 0.2 |
| FE-Penn Power | Indoor Daylight Sensors | Lighting w/ No Controls | Lodging | Other Int. Lighting | New | building | 8,255 | 4.1% | 0.04 | 8 | \$4,117 | 0% | 0.0 |
| FE-Penn Power | LED Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Lodging | Other Int. Lighting | Early | sign | 153 | 87% | 0.02 | 15 | \$48 | 16% | 1.5 |
| FE-Penn Power | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Lodging | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 1.6 |
| FE-Penn Power | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Lodging | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 1.6 |
| FE-Penn Power | LED Task Lighting/Screw-In | 1 15W CFL bulb | Lodging | Other Int. Lighting | Early | lamp | 42 | 33% | 0.00 | 9 | \$9.6 | 24% | 0.6 |
| FE-Penn Power | LED Task Lighting/Screw-In | 1 60W Incandescent Bulb | Lodging | Other Int. Lighting | Early | lamp | 167 | 83% | 0.02 | 9 | \$9.6 | 24% | 5.7 |
| FE-Penn Power | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Lodging | Other Int. Lighting | New | lamp | 91 | 77% | 0.01 | 9 | \$7.9 | 24% | 3.4 |
| FE-Penn Power | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Lodging | Other Int. Lighting | New | lamp | 91 | 77% | 0.01 | 9 | \$7.9 | 24% | 3.4 |
| FE-Penn Power | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Lodging | Other Int. Lighting | ROB | lamp | 120 | 77% | 0.01 | 9 | \$7.9 | 24% | 4.5 |
| FE-Penn Power | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Lodging | Other Int. Lighting | ROB | lamp | 120 | 77% | 0.01 | 9 | \$7.9 | 24% | 4.5 |
| FE-Penn Power | Occupancy Sensor | Lighting w/ No Controls | Lodging | Other Int. Lighting | Existing | building | 8,255 | 24% | 0.2 | 8 | \$1,260 | 12% | 0.5 |
| FE-Penn Power | Occupancy Sensor | Lighting w/ No Controls | Lodging | Other Int. Lighting | New | building | 8,255 | 7.0% | 0.07 | 8 | \$1,260 | 0% | 0.2 |
| FE-Penn Power | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Lodging | Other Int. Lighting | Existing | building | 8,255 | 28% | 0.3 | 8 | \$4,117 | 12% | 0.2 |
| FE-Penn Power | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Lodging | Other Int. Lighting | New | building | 8,255 | 4.1% | 0.04 | 8 | \$4,117 | 0% | 0.0 |
| FE-Penn Power | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Lodging | Other Int. Lighting | Early | exit sign | 130 | 100% | 0.02 | 15 | \$173 | 26% | 0.4 |
| FE-Penn Power | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Lodging | Other Int. Lighting | New | exit sign | 75 | 100% | 0.01 | 15 | \$148 | 31% | 0.3 |
| FE-Penn Power | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Lodging | Other Int. Lighting | ROB | exit sign | 75 | 100% | 0.01 | 15 | \$148 | 26% | 0.3 |
| FE-Penn Power | Time Clock Control | Lighting w/ No Controls | Lodging | Other Int. Lighting | Existing | building | 8,255 | 28% | 0.3 | 8 | \$837 | 13% | 0.9 |
| FE-Penn Power | Time Clock Control | Lighting w/ No Controls | Lodging | Other Int. Lighting | New | building | 8,255 | 4.1% | 0.04 | 8 | \$837 | 0% | 0.1 |
| FE-Penn Power | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Lodging | Plug Load | Existing | building | 2,913 | 46% | 0.5 | 5 | \$189 | 4% | 2.2 |
| FE-Penn Power | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Lodging | Plug Load | New | building | 1,422 | 46% | 0.5 | 5 | \$189 | 4% | 1.5 |
| FE-Penn Power | Data Center - Server/Storage Consolidation | No Consolidation | Lodging | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penn Power | Data Center - Server/Storage Consolidation | No Consolidation | Lodging | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penn Power | Data Center - Server/Storage Virtualization | No Virtualization | Lodging | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penn Power | Data Center - Server/Storage Virtualization | No Virtualization | Lodging | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penn Power | Energy Star - Scanners | Std Scanner | Lodging | Plug Load | New | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| FE-Penn Power | Energy Star - Scanners | Std Scanner | Lodging | Plug Load | ROB | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| FE-Penn Power | Energy Star Battery Charging System (for small cordless products) | Std. Battery Charging System | Lodging | Plug Load | ROB | measure | 593 | 2.3% | 0.2 | 5 | \$65 | 4% | 1.2 |
| FE-Penn Power | Energy Star Dishwasher | Existing Dishwasher units | Lodging | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,580 | 23% | 0.9 |
| FE-Penn Power | Energy Star Dishwasher | Standard Dishwasher unit | Lodging | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 23% | 2.8 |
| FE-Penn Power | Energy Star Dishwasher | Standard Dishwasher unit | Lodging | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 23% | 2.8 |
| FE-Penn Power | Energy Star External Power Adapter | Std. Power Adapter | Lodging | Plug Load | New | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| FE-Penn Power | Energy Star External Power Adapter | Std. Power Adapter | Lodging | Plug Load | ROB | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| FE-Penn Power | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Lodging | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 17% | 0.1 |
| FE-Penn Power | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Lodging | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 1.7 |
| FE-Penn Power | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Lodging | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 1.7 |
| FE-Penn Power | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Lodging | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 64% | 0.7 |
| FE-Penn Power | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Lodging | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 64% | 1.5 |
| FE-Penn Power | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Lodging | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 64% | 1.5 |
| FE-Penn Power | ENERGY STAR® Copiers | 10% Less Efficient Copier | Lodging | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 18% | 0.0 |
| FE-Penn Power | ENERGY STAR® Copiers | One Conventional Copier | Lodging | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| FE-Penn Power | ENERGY STAR® Copiers | One Conventional Copier | Lodging | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| FE-Penn Power | ENERGY STAR® desktop | Standard computer | Lodging | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 69% | 0.1 |
| FE-Penn Power | ENERGY STAR® desktop | Standard computer | Lodging | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.2 |
| FE-Penn Power | ENERGY STAR® desktop | Standard computer | Lodging | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|---|---------|---------------|----------|-------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | ENERGY STAR® Fax | 10% Less Efficient Fax | Lodging | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 15% | 0.0 |
| FE-Penn Power | ENERGY STAR® Fax | One Conventional Fax | Lodging | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.1 |
| FE-Penn Power | ENERGY STAR® Fax | One Conventional Fax | Lodging | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.1 |
| FE-Penn Power | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Lodging | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 70% | 0.0 |
| FE-Penn Power | ENERGY STAR® Monitors | One Conventional Monitor | Lodging | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| FE-Penn Power | ENERGY STAR® Monitors | One Conventional Monitor | Lodging | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| FE-Penn Power | ENERGY STAR® Printers | 10% Less Efficient Printer | Lodging | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 44% | 0.0 |
| FE-Penn Power | ENERGY STAR® Printers | One Conventional Printer | Lodging | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| FE-Penn Power | ENERGY STAR® Printers | One Conventional Printer | Lodging | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| FE-Penn Power | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Lodging | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 43% | 0.1 |
| FE-Penn Power | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Lodging | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.6 |
| FE-Penn Power | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Lodging | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.6 |
| FE-Penn Power | ENERGY STAR® Televisions | 10% Less Efficient Television | Lodging | Plug Load | Early | Unit | 280 | 38% | 0.01 | 6 | \$672 | 40% | 0.0 |
| FE-Penn Power | ENERGY STAR® Televisions | One Conventional Television | Lodging | Plug Load | New | Unit | 254 | 32% | 0.01 | 6 | \$206 | 40% | 0.1 |
| FE-Penn Power | ENERGY STAR® Televisions | One Conventional Television | Lodging | Plug Load | ROB | Unit | 254 | 32% | 0.01 | 6 | \$206 | 40% | 0.1 |
| FE-Penn Power | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Lodging | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 24% | 0.2 |
| FE-Penn Power | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Lodging | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.5 |
| FE-Penn Power | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Lodging | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.5 |
| FE-Penn Power | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Lodging | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 73% | 0.2 |
| FE-Penn Power | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Lodging | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 73% | 0.2 |
| FE-Penn Power | Network PC Power Management | No PC Power Management | Lodging | Plug Load | Existing | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 9.1 |
| FE-Penn Power | Network PC Power Management | No PC Power Management | Lodging | Plug Load | New | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 9.1 |
| FE-Penn Power | Smart Strip Plug Outlets | Standard plug strip/outlet | Lodging | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.3 |
| FE-Penn Power | Smart Strip Plug Outlets | Standard plug strip/outlet | Lodging | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.3 |
| FE-Penn Power | Smart Strip Plug Outlets | Standard plug strip/outlet | Lodging | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| FE-Penn Power | Smart Strip Plug Outlets | Standard plug strip/outlet | Lodging | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| FE-Penn Power | Smart Strip Plug Outlets | Standard plug strip/outlet | Lodging | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| FE-Penn Power | Smart Strip Plug Outlets | Standard plug strip/outlet | Lodging | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| FE-Penn Power | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Lodging | Plug Load | Existing | building | 2,913 | 46% | 0.5 | 5 | \$180 | 3% | 2.3 |
| FE-Penn Power | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Lodging | Plug Load | New | building | 1,422 | 46% | 0.5 | 5 | \$180 | 3% | 1.6 |
| FE-Penn Power | Air curtain technology | Strip plastic curtain | Lodging | Refrigeration | New | building | 7,789 | 6.8% | 0.07 | 8 | \$1,138 | 35% | 0.2 |
| FE-Penn Power | Air curtain technology | Strip plastic curtain | Lodging | Refrigeration | New | building | 7,848 | 6.8% | 0.07 | 8 | \$1,138 | 35% | 0.2 |
| FE-Penn Power | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Lodging | Refrigeration | Existing | building | 649 | 2.3% | 0.02 | 12 | \$70 | 11% | 0.3 |
| FE-Penn Power | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Lodging | Refrigeration | New | building | 649 | 2.3% | 0.02 | 12 | \$70 | 11% | 0.3 |
| FE-Penn Power | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Lodging | Refrigeration | Existing | building | 649 | 0.9% | 0.01 | 12 | \$70 | 11% | 0.1 |
| FE-Penn Power | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Lodging | Refrigeration | New | building | 649 | 0.9% | 0.01 | 12 | \$70 | 11% | 0.1 |
| FE-Penn Power | Auto Closer on Refrigerator Door | Door w/out Autocloser | Lodging | Refrigeration | Existing | building | 7,789 | 18% | 0.2 | 8 | \$803 | 40% | 0.6 |
| FE-Penn Power | Auto Closer on Refrigerator Door | Door w/out Autocloser | Lodging | Refrigeration | Existing | building | 7,848 | 9.1% | 0.09 | 8 | \$714 | 40% | 0.3 |
| FE-Penn Power | Auto Closer on Refrigerator Door | Door w/out Autocloser | Lodging | Refrigeration | New | building | 7,789 | 18% | 0.2 | 8 | \$803 | 40% | 0.6 |
| FE-Penn Power | Auto Closer on Refrigerator Door | Door w/out Autocloser | Lodging | Refrigeration | New | building | 7,848 | 9.1% | 0.09 | 8 | \$714 | 40% | 0.3 |
| FE-Penn Power | Demand Hot Gas Defrost | Base Refrigeration System | Lodging | Refrigeration | Existing | building | 649 | 3.0% | 0.03 | 10 | \$1,407 | 0% | 0.0 |
| FE-Penn Power | Demand Hot Gas Defrost | Base Refrigeration System | Lodging | Refrigeration | New | building | 649 | 3.0% | 0.03 | 10 | \$1,407 | 0% | 0.0 |
| FE-Penn Power | Door Gasket- Freezer | Door w/out Gasket | Lodging | Refrigeration | Existing | building | 7,789 | 10% | 0.1 | 4 | \$82 | 29% | 1.8 |
| FE-Penn Power | Door Gasket- Freezer | Door w/out Gasket | Lodging | Refrigeration | New | building | 7,789 | 9.3% | 0.09 | 4 | \$82 | 29% | 1.7 |
| FE-Penn Power | Door Gasket- Refrigerator | Door w/out Gasket | Lodging | Refrigeration | Existing | building | 7,848 | 2.9% | 0.03 | 4 | \$99 | 45% | 0.4 |
| FE-Penn Power | Door Gasket- Refrigerator | Door w/out Gasket | Lodging | Refrigeration | New | building | 7,848 | 2.9% | 0.03 | 4 | \$99 | 45% | 0.4 |
| FE-Penn Power | Economizer for Walk-in Coolers | No Economizer | Lodging | Refrigeration | Early | measure | 16,150 | 6.6% | 0.1 | 10 | \$188 | 72% | 2.2 |
| FE-Penn Power | Economizer for Walk-in Coolers | No Economizer | Lodging | Refrigeration | Early | measure | 16,150 | 6.6% | 0.1 | 10 | \$188 | 72% | 2.2 |
| FE-Penn Power | Economizer for Walk-in Coolers | No Economizer | Lodging | Refrigeration | Early | measure | 16,150 | 6.6% | 0.1 | 10 | \$188 | 72% | 2.2 |
| FE-Penn Power | Economizer for Walk-in Coolers | No Economizer | Lodging | Refrigeration | New | measure | 16,150 | 6.6% | 0.1 | 10 | \$22 | 72% | 18.7 |
| FE-Penn Power | Economizer for Walk-in Coolers | No Economizer | Lodging | Refrigeration | New | measure | 16,150 | 6.6% | 0.1 | 10 | \$22 | 72% | 18.7 |
| FE-Penn Power | Economizer for Walk-in Coolers | No Economizer | Lodging | Refrigeration | New | measure | 16,150 | 6.6% | 0.1 | 10 | \$22 | 72% | 18.7 |
| FE-Penn Power | Economizer for Walk-in Coolers | No Economizer | Lodging | Refrigeration | ROB | measure | 16,150 | 6.6% | 0.1 | 10 | \$22 | 72% | 18.7 |
| FE-Penn Power | Economizer for Walk-in Coolers | No Economizer | Lodging | Refrigeration | ROB | measure | 16,150 | 6.6% | 0.1 | 10 | \$22 | 72% | 18.7 |
| FE-Penn Power | Economizer for Walk-in Coolers | No Economizer | Lodging | Refrigeration | ROB | measure | 16,150 | 6.6% | 0.1 | 10 | \$22 | 72% | 18.7 |
| FE-Penn Power | eCube | Refrigeration unit w/out eCube | Lodging | Refrigeration | Existing | building | 7,848 | 15% | 0.2 | 15 | \$601 | 57% | 1.0 |
| FE-Penn Power | eCube | Refrigeration unit w/out eCube | Lodging | Refrigeration | New | building | 7,848 | 15% | 0.2 | 15 | \$601 | 57% | 1.0 |
| FE-Penn Power | Efficient compressor motor | Base Refrigeration System - Grocery | Lodging | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.4 |
| FE-Penn Power | Efficient compressor motor | Base Refrigeration System - Grocery | Lodging | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.4 |
| FE-Penn Power | Efficient compressor motor | Base Refrigeration System - Grocery | Lodging | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.4 |
| FE-Penn Power | Efficient compressor motor | Base Refrigeration System - Grocery | Lodging | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.4 |
| FE-Penn Power | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Lodging | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.4 |
| FE-Penn Power | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Lodging | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.2 |
| FE-Penn Power | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Lodging | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.2 |
| FE-Penn Power | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Lodging | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|--|---------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Lodging | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.6 |
| FE-Penn Power | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Lodging | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.6 |
| FE-Penn Power | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Lodging | Refrigeration | Existing | building | 7,848 | 1.1% | 0.01 | 10 | \$369 | 77% | 0.1 |
| FE-Penn Power | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Lodging | Refrigeration | New | building | 7,848 | 1.1% | 0.01 | 10 | \$369 | 77% | 0.1 |
| FE-Penn Power | Floating head pressure controller | System w/out FHPC | Lodging | Refrigeration | Existing | building | 7,789 | 3.0% | 0.02 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penn Power | Floating head pressure controller | System w/out FHPC | Lodging | Refrigeration | Existing | building | 649 | 15% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penn Power | Floating head pressure controller | System w/out FHPC | Lodging | Refrigeration | Existing | building | 7,848 | 1.0% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penn Power | Floating head pressure controller | System w/out FHPC | Lodging | Refrigeration | New | building | 7,789 | 3.0% | 0.02 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penn Power | Floating head pressure controller | System w/out FHPC | Lodging | Refrigeration | New | building | 649 | 15% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penn Power | Floating head pressure controller | System w/out FHPC | Lodging | Refrigeration | New | building | 7,848 | 1.0% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penn Power | High Efficiency Commercial Freezer | Std. Commercial Freezer | Lodging | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 84% | 0.3 |
| FE-Penn Power | High Efficiency Commercial Freezer | Std. Commercial Freezer | Lodging | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 84% | 3.2 |
| FE-Penn Power | High Efficiency Commercial Freezer | Std. Commercial Freezer | Lodging | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 84% | 3.2 |
| FE-Penn Power | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Lodging | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 21% | 0.1 |
| FE-Penn Power | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Lodging | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 21% | 0.7 |
| FE-Penn Power | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Lodging | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 21% | 0.7 |
| FE-Penn Power | High Efficiency Ice Maker | Existing Standard Efficiency Ice Maker in Pennsylvania | Lodging | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 69% | 0.1 |
| FE-Penn Power | High Efficiency Ice Maker | Standard code minimum Ice Maker | Lodging | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.1 |
| FE-Penn Power | High Efficiency Ice Maker | Standard code minimum Ice Maker | Lodging | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 69% | 0.1 |
| FE-Penn Power | High Efficiency Ice Making Head | Standard Ice Making Head | Lodging | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.2 |
| FE-Penn Power | High Efficiency Ice Making Head | Standard Ice Making Head | Lodging | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.2 |
| FE-Penn Power | High R-Value Glass Doors | Base Refrigeration System - Grocery | Lodging | Refrigeration | Existing | building | 649 | 0.7% | 0.01 | 10 | \$25 | 0% | 0.2 |
| FE-Penn Power | High R-Value Glass Doors | Base Refrigeration System - Grocery | Lodging | Refrigeration | New | building | 649 | 0.7% | 0.01 | 10 | \$25 | 0% | 0.2 |
| FE-Penn Power | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Lodging | Refrigeration | Early | Fixture | 373 | 56% | 0.02 | 8 | \$448 | 86% | 0.1 |
| FE-Penn Power | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Lodging | Refrigeration | New | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 86% | 0.3 |
| FE-Penn Power | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Lodging | Refrigeration | ROB | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 86% | 0.3 |
| FE-Penn Power | No-heat glass doors | Standard low-temp reach-in | Lodging | Refrigeration | Existing | building | 649 | 20% | 0.2 | 10 | \$2,276 | 8% | 0.1 |
| FE-Penn Power | No-heat glass doors | Standard low-temp reach-in | Lodging | Refrigeration | New | building | 649 | 20% | 0.2 | 10 | \$2,276 | 8% | 0.1 |
| FE-Penn Power | Quick acting freezer doors | Std. Freezer Doors | Lodging | Refrigeration | Existing | building | 7,789 | 13% | 0.1 | 10 | \$1,339 | 56% | 0.3 |
| FE-Penn Power | Quick acting freezer doors | Std. Freezer Doors | Lodging | Refrigeration | New | building | 7,789 | 13% | 0.1 | 10 | \$1,339 | 56% | 0.3 |
| FE-Penn Power | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Lodging | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 29% | 0.3 |
| FE-Penn Power | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Lodging | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 29% | 1.3 |
| FE-Penn Power | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Lodging | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 29% | 1.3 |
| FE-Penn Power | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 29% | 1.3 |
| FE-Penn Power | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 29% | 2.2 |
| FE-Penn Power | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 29% | 2.2 |
| FE-Penn Power | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 29% | 1.3 |
| FE-Penn Power | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 29% | 3.0 |
| FE-Penn Power | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 29% | 3.0 |
| FE-Penn Power | Refrigeration Commissioning | Non-commissioned refrigeration system | Lodging | Refrigeration | Existing | building | 16,877 | 9.5% | 0.10 | 3 | \$4,029 | 85% | 0.1 |
| FE-Penn Power | Refrigeration Commissioning | Non-commissioned refrigeration system | Lodging | Refrigeration | New | building | 16,877 | 9.5% | 0.10 | 3 | \$4,029 | 85% | 0.1 |
| FE-Penn Power | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Lodging | Refrigeration | Existing | building | 7,789 | 24% | 0.2 | 4 | \$100 | 22% | 3.5 |
| FE-Penn Power | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Lodging | Refrigeration | Existing | building | 7,848 | 4.1% | 0.04 | 4 | \$120 | 22% | 0.5 |
| FE-Penn Power | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Lodging | Refrigeration | New | building | 7,789 | 24% | 0.2 | 4 | \$100 | 22% | 3.5 |
| FE-Penn Power | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Lodging | Refrigeration | New | building | 7,848 | 4.1% | 0.04 | 4 | \$120 | 22% | 0.5 |
| FE-Penn Power | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Lodging | Refrigeration | Existing | building | 7,789 | 4.4% | 0.04 | 11 | \$140 | 79% | 1.0 |
| FE-Penn Power | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Lodging | Refrigeration | New | building | 7,789 | 4.4% | 0.04 | 11 | \$140 | 79% | 1.0 |
| FE-Penn Power | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Lodging | Refrigeration | Existing | building | 7,848 | 3.3% | 0.03 | 11 | \$140 | 79% | 0.7 |
| FE-Penn Power | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Lodging | Refrigeration | New | building | 7,848 | 3.3% | 0.03 | 11 | \$140 | 79% | 0.7 |
| FE-Penn Power | Vendor Miser | No Vendor Miser | Lodging | Refrigeration | Existing | building | 591 | 12% | 0.1 | 8 | \$60 | 7% | 1.4 |
| FE-Penn Power | Vertical Night Covers | Display cases w/out night covers-High Temperature | Lodging | Refrigeration | Existing | building | 649 | 0.4% | 0.00 | 5 | \$52 | 9% | 0.0 |
| FE-Penn Power | Vertical Night Covers | Display cases w/out night covers-High Temperature | Lodging | Refrigeration | New | building | 649 | 0.4% | 0.00 | 5 | \$52 | 9% | 0.0 |
| FE-Penn Power | VSD Controlled Compressor | Compressor w/out VSD | Lodging | Refrigeration | Early | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 73% | 0.1 |
| FE-Penn Power | VSD Controlled Compressor | Compressor w/out VSD | Lodging | Refrigeration | New | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 73% | 0.1 |
| FE-Penn Power | VSD Controlled Compressor | Compressor w/out VSD | Lodging | Refrigeration | ROB | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 73% | 0.1 |
| FE-Penn Power | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Lodging | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$269 | 35% | 0.7 |
| FE-Penn Power | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Lodging | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$269 | 35% | 0.7 |
| FE-Penn Power | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Lodging | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 2.4 |
| FE-Penn Power | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Lodging | Refrigeration | New | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 2.3 |
| FE-Penn Power | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Lodging | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 2.4 |
| FE-Penn Power | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Lodging | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 2.3 |
| FE-Penn Power | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 35% | 1.9 |
| FE-Penn Power | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 35% | 1.8 |
| FE-Penn Power | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 3.9 |
| FE-Penn Power | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 3.7 |
| FE-Penn Power | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 3.9 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|---|---------|-----------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 3.7 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Lodging | Space Heating | Existing | building | 10,810 | 7.1% | 0.07 | 6 | \$17,166 | 82% | 0.0 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Lodging | Space Heating | New | building | 10,810 | 7.1% | 0.07 | 6 | \$17,166 | 82% | 0.0 |
| FE-Penn Power | Adding window shade film | No shade film | Lodging | Space Heating | Existing | building | 10,810 | 1.3% | 0.4 | 10 | \$132 | 13% | 2.0 |
| FE-Penn Power | Adding window shade film | No shade film | Lodging | Space Heating | New | building | 10,810 | 1.3% | 0.4 | 10 | \$132 | 13% | 2.0 |
| FE-Penn Power | Adding window shade screen | No shade screen | Lodging | Space Heating | Existing | building | 10,810 | 1.1% | 0.01 | 10 | \$51 | 13% | 0.8 |
| FE-Penn Power | Adding window shade screen | No shade screen | Lodging | Space Heating | New | building | 10,810 | 1.1% | 0.01 | 10 | \$51 | 13% | 0.8 |
| FE-Penn Power | Automated control system | Manual Controls | Lodging | Space Heating | Existing | building | 10,810 | 17% | 0.2 | 15 | \$11,834 | 51% | 0.1 |
| FE-Penn Power | Automated control system | Manual Controls | Lodging | Space Heating | New | building | 10,810 | 17% | 0.2 | 15 | \$11,834 | 94% | 0.1 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Lodging | Space Heating | Existing | building | 10,810 | 3.3% | 0.03 | 15 | \$23,552 | 71% | 0.0 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Lodging | Space Heating | New | building | 10,810 | 1.1% | 0.01 | 15 | \$22,387 | 94% | 0.0 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Lodging | Space Heating | Existing | building | 10,810 | 1.4% | 0.04 | 15 | \$86 | 20% | 1.0 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Lodging | Space Heating | New | building | 10,810 | 1.4% | 0.04 | 15 | \$86 | 10% | 1.0 |
| FE-Penn Power | Efficient Unit Heating System | Existing Unit Heaters in PA | Lodging | Space Heating | Early | heater | 79,620 | 23% | 0.1 | 15 | \$3,289 | 83% | 2.2 |
| FE-Penn Power | Efficient Unit Heating System | Std. Unit Heater | Lodging | Space Heating | New | heater | 70,662 | 13% | 0.07 | 15 | \$1,991 | 83% | 1.8 |
| FE-Penn Power | Efficient Unit Heating System | Std. Unit Heater | Lodging | Space Heating | ROB | heater | 70,662 | 13% | 0.07 | 15 | \$1,991 | 83% | 1.8 |
| FE-Penn Power | Facility Commissioning | No Facility Commissioning | Lodging | Space Heating | New | building | 10,810 | 16% | 0.2 | 10 | \$2,255 | 89% | 0.3 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Lodging | Space Heating | Existing | building | 10,810 | 7.1% | 0.07 | 15 | \$47,949 | 25% | 0.0 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Lodging | Space Heating | New | building | 10,810 | 7.1% | 0.07 | 15 | \$47,949 | 35% | 0.0 |
| FE-Penn Power | Hi Eff HVAC System Design | No HVAC Design | Lodging | Space Heating | New | building | 10,810 | 7.3% | 0.07 | 10 | \$64,531 | 51% | 0.0 |
| FE-Penn Power | Hotel Occupancy Sensor | HVAC system w/out Occupancy Sensors | Lodging | Space Heating | Existing | building | 10,810 | 3.5% | 0.04 | 15 | \$11,644 | 89% | 0.0 |
| FE-Penn Power | Hotel Occupancy Sensor | HVAC system w/out Occupancy Sensors | Lodging | Space Heating | New | building | 10,810 | 3.5% | 0.04 | 15 | \$11,644 | 94% | 0.0 |
| FE-Penn Power | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Lodging | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 0.8 |
| FE-Penn Power | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Lodging | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 0.8 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Lodging | Space Heating | Existing | building | 10,810 | 3.5% | 0.04 | 10 | \$7,735 | 81% | 0.0 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Lodging | Space Heating | New | building | 10,810 | 3.5% | 0.04 | 10 | \$7,735 | 81% | 0.0 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Lodging | Space Heating | Existing | building | 10,810 | 3.6% | 0.04 | 11 | \$286 | 49% | 0.5 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Lodging | Space Heating | New | building | 10,810 | 3.1% | 0.03 | 11 | \$146 | 49% | 0.8 |
| FE-Penn Power | Re-Commissioning (Existing Construction) | No Re-Commissioning | Lodging | Space Heating | Existing | building | 10,810 | 16% | 0.2 | 5 | \$12,530 | 86% | 0.0 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Lodging | Space Heating | Existing | building | 10,810 | 8.0% | 0.08 | 15 | \$6,019 | 26% | 0.1 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Lodging | Space Heating | New | building | 10,810 | 0.2% | 0.00 | 15 | \$4,617 | 94% | 0.0 |
| FE-Penn Power | Green LED Traffic Light | Green Incandescent Traffic Light | Lodging | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 0% | 1.0 |
| FE-Penn Power | Green LED Traffic Light | Green Incandescent Traffic Light | Lodging | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| FE-Penn Power | Green LED Traffic Light | Green Incandescent Traffic Light | Lodging | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| FE-Penn Power | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Lodging | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 0% | 2.6 |
| FE-Penn Power | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Lodging | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-Penn Power | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Lodging | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-Penn Power | Induction Street Lighting | One 100W HPS Street Light Fixture | Lodging | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 0% | 0.2 |
| FE-Penn Power | Induction Street Lighting | One 100W HPS Street Light Fixture | Lodging | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.4 |
| FE-Penn Power | Induction Street Lighting | One 100W HPS Street Light Fixture | Lodging | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.4 |
| FE-Penn Power | LED Street Lighting | One 100W HPS Street Light | Lodging | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 0% | 0.2 |
| FE-Penn Power | LED Street Lighting | One 100W HPS Street Light | Lodging | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-Penn Power | LED Street Lighting | One 100W HPS Street Light | Lodging | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-Penn Power | Red LED Traffic Light | One Red Incandescent Traffic Light | Lodging | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 0% | 1.4 |
| FE-Penn Power | Red LED Traffic Light | One Red Incandescent Traffic Light | Lodging | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.2 |
| FE-Penn Power | Red LED Traffic Light | One Red Incandescent Traffic Light | Lodging | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.2 |
| FE-Penn Power | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Lodging | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 0% | 0.1 |
| FE-Penn Power | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Lodging | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-Penn Power | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Lodging | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-Penn Power | Demand controlled Circulating Systems | Constant circulation system | Lodging | Water Heating | Existing | building | 480 | 20% | 0.2 | 15 | \$87 | 59% | 2.3 |
| FE-Penn Power | Demand controlled Circulating Systems | Constant circulation system | Lodging | Water Heating | New | building | 480 | 20% | 0.2 | 15 | \$87 | 59% | 2.3 |
| FE-Penn Power | Drainwater Heat Recovery Water Heater | No heat recovery | Lodging | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.5 |
| FE-Penn Power | Drainwater Heat Recovery Water Heater | No heat recovery | Lodging | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.5 |
| FE-Penn Power | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Lodging | Water Heating | Existing | building | 480 | 5.9% | 0.06 | 12 | \$182 | 85% | 0.3 |
| FE-Penn Power | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Lodging | Water Heating | New | building | 480 | 5.9% | 0.06 | 12 | \$52 | 85% | 1.0 |
| FE-Penn Power | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Lodging | Water Heating | Early | water heater | 48,207 | 66% | 5.6 | 10 | \$2,375 | 68% | 5.8 |
| FE-Penn Power | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Lodging | Water Heating | Early | water heater | 48,207 | 66% | 5.6 | 10 | \$2,375 | 68% | 5.8 |
| FE-Penn Power | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Lodging | Water Heating | New | water heater | 48,207 | 66% | 5.6 | 10 | \$2,375 | 68% | 5.8 |
| FE-Penn Power | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Lodging | Water Heating | New | water heater | 48,207 | 66% | 5.6 | 10 | \$2,375 | 68% | 5.8 |
| FE-Penn Power | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Lodging | Water Heating | ROB | water heater | 46,868 | 65% | 5.4 | 10 | \$2,375 | 68% | 5.5 |
| FE-Penn Power | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Lodging | Water Heating | ROB | water heater | 46,868 | 65% | 5.4 | 10 | \$2,375 | 68% | 5.5 |
| FE-Penn Power | Heat Recovery Unit | Base Water Heating | Lodging | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.3 |
| FE-Penn Power | Heat Recovery Unit | Base Water Heating | Lodging | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.3 |
| FE-Penn Power | Heat Trap | No Heat Trap | Lodging | Water Heating | Existing | building | 480 | 21% | 0.2 | 11 | \$2.8 | 50% | 59.4 |
| FE-Penn Power | Heat Trap | No Heat Trap | Lodging | Water Heating | New | building | 480 | 21% | 0.2 | 11 | \$0.9 | 50% | 192.9 |
| FE-Penn Power | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Lodging | Water Heating | Early | water heater | 48,207 | 5.9% | 0.5 | 15 | \$614 | 79% | 2.6 |
| FE-Penn Power | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Lodging | Water Heating | Early | water heater | 48,207 | 5.9% | 0.5 | 15 | \$614 | 79% | 2.6 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|--|--|---------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Lodging | Water Heating | New | water heater | 46,868 | 3.2% | 0.3 | 15 | \$614 | 79% | 1.4 |
| FE-Penn Power | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Lodging | Water Heating | New | water heater | 46,868 | 3.2% | 0.3 | 15 | \$614 | 79% | 1.4 |
| FE-Penn Power | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Lodging | Water Heating | ROB | water heater | 46,868 | 3.2% | 0.3 | 15 | \$614 | 79% | 1.4 |
| FE-Penn Power | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Lodging | Water Heating | ROB | water heater | 46,868 | 3.2% | 0.3 | 15 | \$614 | 79% | 1.4 |
| FE-Penn Power | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Lodging | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$466 | 81% | 32.0 |
| FE-Penn Power | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Lodging | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 16.7 |
| FE-Penn Power | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Lodging | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 16.7 |
| FE-Penn Power | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Lodging | Water Heating | Existing | building | 480 | 1.3% | 0.01 | 13 | \$8.7 | 68% | 1.4 |
| FE-Penn Power | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Lodging | Water Heating | New | building | 480 | 1.3% | 0.01 | 13 | \$8.7 | 0% | 1.4 |
| FE-Penn Power | Hot Water Circulation Pump Time-Clock | Constant circulation system | Lodging | Water Heating | Existing | building | 480 | 5.3% | 0.05 | 10 | \$1.9 | 72% | 21.1 |
| FE-Penn Power | Hot Water Circulation Pump Time-Clock | Constant circulation system | Lodging | Water Heating | New | building | 480 | 5.3% | 0.05 | 10 | \$1.9 | 72% | 21.1 |
| FE-Penn Power | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Lodging | Water Heating | Existing | building | 480 | 0.2% | 0.00 | 7 | \$22 | 78% | 0.1 |
| FE-Penn Power | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Lodging | Water Heating | New | building | 480 | 0.2% | 0.00 | 7 | \$0.5 | 78% | 2.5 |
| FE-Penn Power | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Lodging | Water Heating | Existing | building | 480 | 4.2% | 0.04 | 5 | \$300 | 20% | 0.1 |
| FE-Penn Power | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Lodging | Water Heating | New | building | 480 | 2.8% | 0.03 | 5 | \$194 | 20% | 0.1 |
| FE-Penn Power | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Lodging | Water Heating | Existing | building | 480 | 6.5% | 0.07 | 9 | \$625 | 85% | 0.1 |
| FE-Penn Power | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Lodging | Water Heating | New | building | 480 | 6.5% | 0.07 | 9 | \$150 | 85% | 0.3 |
| FE-Penn Power | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Lodging | Water Heating | Early | water heater | 48,207 | 52% | 2.0 | 15 | \$12,444 | 32% | 1.0 |
| FE-Penn Power | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Lodging | Water Heating | New | water heater | 46,868 | 51% | 1.9 | 15 | \$12,444 | 32% | 0.9 |
| FE-Penn Power | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Lodging | Water Heating | ROB | water heater | 46,868 | 51% | 1.9 | 15 | \$12,444 | 32% | 0.9 |
| FE-Penn Power | Ultrasonic Faucet Control | Manual Faucet Control | Lodging | Water Heating | Existing | building | 480 | 3.0% | 0.03 | 10 | \$83 | 77% | 0.3 |
| FE-Penn Power | Ultrasonic Faucet Control | Manual Faucet Control | Lodging | Water Heating | New | building | 480 | 3.0% | 0.03 | 10 | \$83 | 77% | 0.3 |
| FE-Penn Power | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Lodging | Water Heating | Existing | building | 480 | 2.2% | 0.02 | 4 | \$28 | 83% | 0.3 |
| FE-Penn Power | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Lodging | Water Heating | New | building | 480 | 2.3% | 0.02 | 4 | \$28 | 83% | 0.3 |
| FE-Penn Power | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Misc. | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 0.9 |
| FE-Penn Power | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Misc. | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 0.9 |
| FE-Penn Power | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Misc. | Cooking | Early | steamer | 51 | 46% | 0.00 | 12 | \$5,053 | 81% | 0.0 |
| FE-Penn Power | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Misc. | Cooking | New | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-Penn Power | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Misc. | Cooking | ROB | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-Penn Power | Electric combination oven (Energy Star) | Standard Oven | Misc. | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.5 |
| FE-Penn Power | Electric combination oven (Energy Star) | Standard Oven | Misc. | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.5 |
| FE-Penn Power | Electric Convection Oven | Conventional convection oven w/ 65% efficiency | Misc. | Cooking | Early | oven | 8,641 | 37% | 0.6 | 12 | \$4,119 | 81% | 0.4 |
| FE-Penn Power | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Misc. | Cooking | New | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.6 |
| FE-Penn Power | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Misc. | Cooking | ROB | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.6 |
| FE-Penn Power | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Misc. | Cooking | Early | fryer | 6,105 | 23% | 0.3 | 12 | \$9,241 | 86% | 0.1 |
| FE-Penn Power | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Misc. | Cooking | New | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| FE-Penn Power | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Misc. | Cooking | ROB | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| FE-Penn Power | High Efficiency Griddle (ENERGY STAR) | Efficiency code minimum griddle (70% eff) | Misc. | Cooking | Early | griddle | 11,317 | 65% | 1.4 | 12 | \$4,977 | 86% | 0.7 |
| FE-Penn Power | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Misc. | Cooking | New | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.0 |
| FE-Penn Power | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Misc. | Cooking | ROB | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.0 |
| FE-Penn Power | High Efficiency Induction Cooking | Standard Cooking | Misc. | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-Penn Power | High Efficiency Induction Cooking | Standard Cooking | Misc. | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Misc. | Cooling Central | Existing | building | 2,403 | 7.0% | 0.07 | 6 | \$12,037 | 82% | 0.0 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Misc. | Cooling Central | New | building | 2,403 | 7.0% | 0.07 | 6 | \$12,037 | 82% | 0.0 |
| FE-Penn Power | Adding window shade film | No shade film | Misc. | Cooling Central | Existing | building | 2,403 | 1.3% | 0.4 | 10 | \$29 | 13% | 8.1 |
| FE-Penn Power | Adding window shade film | No shade film | Misc. | Cooling Central | New | building | 2,403 | 1.3% | 0.4 | 10 | \$29 | 13% | 8.1 |
| FE-Penn Power | Adding window shade screen | No shade screen | Misc. | Cooling Central | Existing | building | 2,403 | 1.1% | 0.01 | 10 | \$11 | 13% | 1.3 |
| FE-Penn Power | Adding window shade screen | No shade screen | Misc. | Cooling Central | New | building | 2,403 | 1.0% | 0.01 | 10 | \$11 | 13% | 1.3 |
| FE-Penn Power | Automated control system | Manual Controls | Misc. | Cooling Central | Existing | building | 2,403 | 17% | 0.2 | 15 | \$2,631 | 51% | 0.1 |
| FE-Penn Power | Automated control system | Manual Controls | Misc. | Cooling Central | New | building | 2,403 | 17% | 0.2 | 15 | \$2,631 | 94% | 0.1 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Misc. | Cooling Central | Existing | building | 2,403 | 4.9% | 0.05 | 15 | \$17,130 | 71% | 0.0 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Misc. | Cooling Central | New | building | 2,403 | 1.7% | 0.02 | 15 | \$16,283 | 94% | 0.0 |
| FE-Penn Power | Chiller Tuneup/Diagnostics | No tuneup | Misc. | Cooling Central | Existing | building | 2,403 | 8.0% | 0.08 | 10 | \$6,136 | 59% | 0.0 |
| FE-Penn Power | Chiller Tuneup/Diagnostics | No tuneup | Misc. | Cooling Central | New | building | 2,403 | 8.0% | 0.08 | 10 | \$6,136 | 59% | 0.0 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Misc. | Cooling Central | Existing | building | 2,403 | 1.4% | 0.04 | 15 | \$19 | 20% | 2.4 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Misc. | Cooling Central | New | building | 2,403 | 1.4% | 0.04 | 15 | \$19 | 10% | 2.4 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Misc. | Cooling Central | Existing | building | 2,403 | 7.0% | 0.07 | 15 | \$10,660 | 25% | 0.0 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Misc. | Cooling Central | New | building | 2,403 | 7.0% | 0.07 | 15 | \$10,660 | 35% | 0.0 |
| FE-Penn Power | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Misc. | Cooling Central | Early | ton | 4,330 | 24% | 0.4 | 15 | \$108,550 | 88% | 0.0 |
| FE-Penn Power | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Misc. | Cooling Central | New | ton | 3,540 | 6.7% | 0.09 | 15 | \$12,927 | 88% | 0.0 |
| FE-Penn Power | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Misc. | Cooling Central | ROB | ton | 3,540 | 6.7% | 0.09 | 15 | \$12,927 | 88% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|--|--|---------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Misc. | Cooling Central | Early | ton | 6,471 | 23% | 0.6 | 15 | \$140,105 | 88% | 0.0 |
| FE-Penn Power | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Misc. | Cooling Central | New | ton | 5,206 | 4.8% | 0.09 | 15 | \$9,336 | 88% | 0.0 |
| FE-Penn Power | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Misc. | Cooling Central | ROB | ton | 5,206 | 4.8% | 0.09 | 15 | \$9,336 | 88% | 0.0 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Misc. | Cooling Central | Early | ton | 52,971 | 26% | 5.0 | 15 | \$105,354 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Misc. | Cooling Central | New | ton | 46,153 | 15% | 2.5 | 15 | \$30,530 | 88% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Misc. | Cooling Central | ROB | ton | 46,153 | 15% | 2.5 | 15 | \$30,530 | 88% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Misc. | Cooling Central | Early | ton | 79,336 | 23% | 6.6 | 15 | \$154,107 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Misc. | Cooling Central | New | ton | 72,880 | 16% | 4.3 | 15 | \$27,646 | 88% | 0.3 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Misc. | Cooling Central | ROB | ton | 79,336 | 23% | 6.6 | 15 | \$27,646 | 88% | 0.5 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Misc. | Cooling Central | Early | ton | 131,762 | 23% | 10.9 | 15 | \$302,924 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Misc. | Cooling Central | New | ton | 119,254 | 14% | 6.3 | 15 | \$115,432 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Misc. | Cooling Central | ROB | ton | 131,762 | 23% | 10.9 | 15 | \$115,432 | 88% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Misc. | Cooling Central | Early | ton | 158,114 | 23% | 13.1 | 15 | \$350,154 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Misc. | Cooling Central | New | ton | 143,105 | 14% | 7.6 | 15 | \$120,406 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Misc. | Cooling Central | ROB | ton | 158,114 | 23% | 13.1 | 15 | \$120,406 | 88% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Misc. | Cooling Central | Early | ton | 35,047 | 29% | 3.8 | 15 | \$83,632 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Misc. | Cooling Central | New | ton | 27,214 | 8.9% | 0.9 | 15 | \$40,211 | 88% | 0.0 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Misc. | Cooling Central | ROB | ton | 35,047 | 29% | 3.8 | 15 | \$40,211 | 88% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Misc. | Cooling Central | Early | ton | 60,220 | 35% | 7.7 | 15 | \$132,173 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Misc. | Cooling Central | New | ton | 44,914 | 13% | 2.1 | 15 | \$39,556 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Misc. | Cooling Central | ROB | ton | 44,914 | 13% | 2.1 | 15 | \$39,556 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Misc. | Cooling Central | Early | ton | 100,542 | 39% | 14.4 | 15 | \$187,029 | 88% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Misc. | Cooling Central | New | ton | 71,685 | 15% | 3.8 | 15 | \$33,554 | 88% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Misc. | Cooling Central | ROB | ton | 100,542 | 39% | 14.4 | 15 | \$33,554 | 88% | 0.8 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Misc. | Cooling Central | Early | ton | 17,593 | 30% | 1.9 | 15 | \$32,398 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Misc. | Cooling Central | New | ton | 13,939 | 11% | 0.6 | 15 | \$7,188 | 88% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Misc. | Cooling Central | ROB | ton | 17,593 | 30% | 1.9 | 15 | \$7,188 | 88% | 0.5 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Misc. | Cooling Central | Existing | building | 2,403 | 2.2% | 0.02 | 10 | \$41,718 | 81% | 0.0 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Misc. | Cooling Central | New | building | 2,403 | 2.2% | 0.02 | 10 | \$41,718 | 81% | 0.0 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Misc. | Cooling Central | Existing | building | 2,403 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.1 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Misc. | Cooling Central | New | building | 2,403 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.2 |
| FE-Penn Power | Re-Commissioning (Existing Construction) | No Re-Commissioning | Misc. | Cooling Central | Existing | building | 2,403 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Misc. | Cooling Central | Existing | building | 2,403 | 14% | 0.1 | 15 | \$5,133 | 26% | 0.0 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Misc. | Cooling Central | New | building | 2,403 | 0.4% | 0.00 | 15 | \$3,937 | 94% | 0.0 |
| FE-Penn Power | <65k BTU/hr 14 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Misc. | Cooling Unitary | Early | ton | 2,614 | 16% | 0.2 | 15 | \$1,545 | 29% | 0.2 |
| FE-Penn Power | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Misc. | Cooling Unitary | New | ton | 2,368 | 7.1% | 0.09 | 15 | \$339 | 29% | 0.4 |
| FE-Penn Power | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Misc. | Cooling Unitary | ROB | ton | 2,368 | 7.1% | 0.09 | 15 | \$339 | 29% | 0.4 |
| FE-Penn Power | <65k BTU/hr 15 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Misc. | Cooling Unitary | Early | ton | 2,614 | 22% | 0.3 | 15 | \$1,821 | 30% | 0.3 |
| FE-Penn Power | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Misc. | Cooling Unitary | New | ton | 2,368 | 13% | 0.2 | 15 | \$714 | 30% | 0.4 |
| FE-Penn Power | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Misc. | Cooling Unitary | ROB | ton | 2,368 | 13% | 0.2 | 15 | \$714 | 30% | 0.4 |
| FE-Penn Power | <65k BTU/hr 16 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Misc. | Cooling Unitary | Early | ton | 2,614 | 26% | 0.4 | 15 | \$2,098 | 31% | 0.3 |
| FE-Penn Power | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Misc. | Cooling Unitary | New | ton | 2,368 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.3 |
| FE-Penn Power | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Misc. | Cooling Unitary | ROB | ton | 2,368 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.3 |
| FE-Penn Power | >760k min 10.2 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Misc. | Cooling Unitary | Early | ton | 66,142 | 3.7% | 1.3 | 15 | \$68,066 | 56% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|--|---------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Misc. | Cooling Unitary | New | ton | 66,990 | 4.9% | 1.7 | 15 | \$6,231 | 56% | 0.4 |
| FE-Penn Power | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Misc. | Cooling Unitary | ROB | ton | 66,990 | 4.9% | 1.7 | 15 | \$6,231 | 56% | 0.4 |
| FE-Penn Power | 135-240k min 12 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Misc. | Cooling Unitary | Early | ton | 16,274 | 18% | 1.6 | 15 | \$18,135 | 79% | 0.1 |
| FE-Penn Power | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Misc. | Cooling Unitary | New | ton | 14,804 | 10.0% | 0.8 | 15 | \$1,948 | 65% | 0.6 |
| FE-Penn Power | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Misc. | Cooling Unitary | ROB | ton | 14,804 | 10.0% | 0.8 | 15 | \$1,948 | 79% | 0.6 |
| FE-Penn Power | 240k-760k min 11 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Misc. | Cooling Unitary | Early | ton | 43,623 | 9.3% | 2.1 | 15 | \$44,809 | 66% | 0.1 |
| FE-Penn Power | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Misc. | Cooling Unitary | New | ton | 43,623 | 9.3% | 2.1 | 15 | \$4,813 | 66% | 0.7 |
| FE-Penn Power | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Misc. | Cooling Unitary | ROB | ton | 43,623 | 9.3% | 2.1 | 15 | \$4,813 | 66% | 0.7 |
| FE-Penn Power | 65k-135k BTU/hr 12 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Misc. | Cooling Unitary | Early | ton | 9,594 | 17% | 0.9 | 15 | \$10,946 | 86% | 0.1 |
| FE-Penn Power | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Misc. | Cooling Unitary | New | ton | 8,550 | 6.7% | 0.3 | 15 | \$1,392 | 86% | 0.3 |
| FE-Penn Power | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Misc. | Cooling Unitary | ROB | ton | 8,550 | 6.7% | 0.3 | 15 | \$1,392 | 86% | 0.3 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Misc. | Cooling Unitary | Existing | building | 28,667 | 7.0% | 0.07 | 6 | \$12,037 | 82% | 0.0 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Misc. | Cooling Unitary | New | building | 28,667 | 7.0% | 0.07 | 6 | \$12,037 | 82% | 0.0 |
| FE-Penn Power | Adding window shade film | No shade film | Misc. | Cooling Unitary | Existing | building | 28,667 | 1.3% | 0.4 | 10 | \$349 | 12% | 1.0 |
| FE-Penn Power | Adding window shade film | No shade film | Misc. | Cooling Unitary | New | building | 28,667 | 1.3% | 0.4 | 10 | \$349 | 13% | 1.0 |
| FE-Penn Power | Adding window shade screen | No shade screen | Misc. | Cooling Unitary | Existing | building | 28,667 | 1.1% | 0.01 | 10 | \$135 | 12% | 0.8 |
| FE-Penn Power | Adding window shade screen | No shade screen | Misc. | Cooling Unitary | New | building | 28,667 | 1.1% | 0.01 | 10 | \$135 | 13% | 0.8 |
| FE-Penn Power | Automated control system | Manual Controls | Misc. | Cooling Unitary | Existing | building | 28,667 | 17% | 0.2 | 15 | \$31,383 | 51% | 0.1 |
| FE-Penn Power | Automated control system | Manual Controls | Misc. | Cooling Unitary | New | building | 28,667 | 17% | 0.2 | 15 | \$31,383 | 94% | 0.1 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Misc. | Cooling Unitary | Existing | building | 28,667 | 4.9% | 0.05 | 15 | \$17,130 | 71% | 0.0 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Misc. | Cooling Unitary | New | building | 28,667 | 1.7% | 0.02 | 15 | \$16,283 | 94% | 0.0 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Misc. | Cooling Unitary | Existing | building | 28,667 | 1.4% | 0.04 | 15 | \$228 | 20% | 0.9 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Misc. | Cooling Unitary | New | building | 28,667 | 1.4% | 0.04 | 15 | \$228 | 10% | 0.9 |
| FE-Penn Power | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Misc. | Cooling Unitary | Existing | building | 15,666 | 13% | 0.1 | 1 | \$150 | 73% | 0.8 |
| FE-Penn Power | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Misc. | Cooling Unitary | New | building | 15,666 | 13% | 0.1 | 1 | \$150 | 73% | 0.8 |
| FE-Penn Power | ECM Motors for split systems | Std Shaded Pole Motor | Misc. | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.4 |
| FE-Penn Power | ECM Motors for split systems | Std Shaded Pole Motor | Misc. | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.4 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Misc. | Cooling Unitary | Existing | building | 28,667 | 7.1% | 0.07 | 15 | \$127,159 | 25% | 0.0 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Misc. | Cooling Unitary | New | building | 28,667 | 7.1% | 0.07 | 15 | \$127,159 | 35% | 0.0 |
| FE-Penn Power | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Misc. | Cooling Unitary | Existing | building | 28,667 | 5.0% | 0.05 | 5 | \$225 | 59% | 1.3 |
| FE-Penn Power | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Misc. | Cooling Unitary | Existing | building | 28,667 | 0.5% | 0.05 | 5 | \$225 | 51% | 0.2 |
| FE-Penn Power | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Misc. | Cooling Unitary | New | building | 28,667 | 0.5% | 0.05 | 5 | \$135 | 51% | 0.3 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Misc. | Cooling Unitary | Existing | building | 28,667 | 2.2% | 0.02 | 10 | \$44,835 | 86% | 0.0 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Misc. | Cooling Unitary | New | building | 28,667 | 2.2% | 0.02 | 10 | \$44,835 | 86% | 0.0 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) | Misc. | Cooling Unitary | Existing | building | 28,667 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.8 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Misc. | Cooling Unitary | New | building | 28,667 | 1.7% | 0.02 | 11 | \$146 | 49% | 1.2 |
| FE-Penn Power | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Misc. | Cooling Unitary | Early | unit | 199 | 19% | 0.01 | 15 | \$849 | 85% | 0.0 |
| FE-Penn Power | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Misc. | Cooling Unitary | New | unit | 201 | 20% | 0.01 | 15 | \$356 | 85% | 0.1 |
| FE-Penn Power | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Misc. | Cooling Unitary | ROB | unit | 201 | 20% | 0.01 | 15 | \$356 | 85% | 0.1 |
| FE-Penn Power | Re-Commissioning (Existing Construction) | No Re-Commissioning | Misc. | Cooling Unitary | Existing | building | 28,667 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.1 |
| FE-Penn Power | Room AC (w/ louvered sides) | Existing efficiency Room AC in Pennsylvania (2000 Federal Standards) | Misc. | Cooling Unitary | Early | ton | 1,234 | 13% | 0.06 | 9 | \$348 | 82% | 0.2 |
| FE-Penn Power | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Misc. | Cooling Unitary | New | ton | 1,119 | 4.5% | 0.02 | 9 | \$17 | 82% | 1.5 |
| FE-Penn Power | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Misc. | Cooling Unitary | ROB | ton | 1,119 | 4.5% | 0.02 | 9 | \$17 | 82% | 1.5 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Misc. | Cooling Unitary | Existing | building | 28,667 | 14% | 0.1 | 15 | \$5,133 | 26% | 0.4 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Misc. | Cooling Unitary | New | building | 28,667 | 0.4% | 0.00 | 15 | \$3,937 | 94% | 0.0 |
| FE-Penn Power | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Misc. | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 0.9 |
| FE-Penn Power | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Misc. | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.0 |
| FE-Penn Power | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Misc. | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.0 |
| FE-Penn Power | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Misc. | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 0% | 0.1 |
| FE-Penn Power | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Misc. | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-Penn Power | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Misc. | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-Penn Power | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Misc. | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 53% | 0.2 |
| FE-Penn Power | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Misc. | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 53% | 0.2 |
| FE-Penn Power | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Misc. | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 53% | 2.3 |
| FE-Penn Power | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Misc. | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 53% | 1.7 |
| FE-Penn Power | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Misc. | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 53% | 2.3 |
| FE-Penn Power | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Misc. | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 53% | 1.7 |
| FE-Penn Power | Photocell Controls (Outdoor) | Lighting w/ No Controls | Misc. | Ext. Lighting | Existing | building | 788 | 28% | 0.3 | 8 | \$4,908 | 88% | 0.0 |
| FE-Penn Power | Photocell Controls (Outdoor) | Lighting w/ No Controls | Misc. | Ext. Lighting | New | building | 788 | 28% | 0.3 | 8 | \$4,908 | 0% | 0.0 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Misc. | Heat Pump | Existing | building | 2,444 | 6.9% | 0.07 | 6 | \$12,037 | 82% | 0.0 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Misc. | Heat Pump | New | building | 2,444 | 6.9% | 0.07 | 6 | \$12,037 | 82% | 0.0 |
| FE-Penn Power | Adding window shade film | No shade film | Misc. | Heat Pump | Existing | building | 2,444 | 3.9% | 0.4 | 10 | \$30 | 12% | 8.6 |
| FE-Penn Power | Adding window shade film | No shade film | Misc. | Heat Pump | New | building | 2,444 | 3.9% | 0.4 | 10 | \$30 | 12% | 8.6 |
| FE-Penn Power | Adding window shade screen | No shade screen | Misc. | Heat Pump | Existing | building | 2,444 | 0.3% | 0.01 | 10 | \$3.8 | 12% | 2.2 |
| FE-Penn Power | Adding window shade screen | No shade screen | Misc. | Heat Pump | New | building | 2,444 | 0.3% | 0.01 | 10 | \$3.8 | 12% | 2.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|--|---|---------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Automated control system | Manual Controls | Misc. | Heat Pump | Existing | building | 2,444 | 17% | 0.2 | 15 | \$2,676 | 51% | 0.1 |
| FE-Penn Power | Automated control system | Manual Controls | Misc. | Heat Pump | New | building | 2,444 | 17% | 0.2 | 15 | \$2,676 | 94% | 0.1 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Misc. | Heat Pump | Existing | building | 2,444 | 4.9% | 0.05 | 15 | \$17,130 | 71% | 0.0 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Misc. | Heat Pump | New | building | 2,444 | 1.7% | 0.02 | 15 | \$16,283 | 94% | 0.0 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Misc. | Heat Pump | Existing | building | 2,444 | 4.0% | 0.04 | 15 | \$19 | 12% | 3.6 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Misc. | Heat Pump | New | building | 2,444 | 4.0% | 0.04 | 15 | \$19 | 6% | 3.6 |
| FE-Penn Power | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Misc. | Heat Pump | Early | heat pump | 2,261 | 12% | 0.02 | 15 | \$4,070 | 83% | 0.0 |
| FE-Penn Power | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Misc. | Heat Pump | New | heat pump | 2,162 | 7.8% | 0.01 | 15 | \$1,097 | 83% | 0.1 |
| FE-Penn Power | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Misc. | Heat Pump | ROB | heat pump | 2,162 | 7.8% | 0.01 | 15 | \$1,097 | 83% | 0.1 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Misc. | Heat Pump | Existing | building | 2,444 | 7.0% | 0.07 | 15 | \$10,841 | 25% | 0.0 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Misc. | Heat Pump | New | building | 2,444 | 7.0% | 0.07 | 15 | \$10,841 | 35% | 0.0 |
| FE-Penn Power | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Misc. | Heat Pump | Early | heat pump | 23,875 | 16% | 0.3 | 15 | \$91,117 | 19% | 0.0 |
| FE-Penn Power | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Misc. | Heat Pump | New | heat pump | 22,983 | 13% | 0.3 | 15 | \$33,927 | 19% | 0.0 |
| FE-Penn Power | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Misc. | Heat Pump | ROB | heat pump | 22,983 | 13% | 0.3 | 15 | \$33,927 | 19% | 0.0 |
| FE-Penn Power | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Misc. | Heat Pump | Early | heat pump | 23,875 | 16% | 0.3 | 15 | \$58,356 | 19% | 0.0 |
| FE-Penn Power | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Misc. | Heat Pump | New | heat pump | 22,983 | 13% | 0.3 | 15 | \$1,167 | 19% | 1.2 |
| FE-Penn Power | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Misc. | Heat Pump | ROB | heat pump | 22,983 | 13% | 0.3 | 15 | \$1,167 | 19% | 1.2 |
| FE-Penn Power | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Misc. | Heat Pump | Early | heat pump | 6,164 | 17% | 0.09 | 12 | \$4,298 | 81% | 0.1 |
| FE-Penn Power | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Misc. | Heat Pump | Early | heat pump | 6,164 | 25% | 0.1 | 12 | \$5,883 | 81% | 0.1 |
| FE-Penn Power | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Misc. | Heat Pump | New | heat pump | 5,870 | 12% | 0.06 | 12 | \$852 | 81% | 0.3 |
| FE-Penn Power | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Misc. | Heat Pump | New | heat pump | 5,870 | 22% | 0.1 | 12 | \$2,437 | 81% | 0.2 |
| FE-Penn Power | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Misc. | Heat Pump | ROB | heat pump | 5,870 | 12% | 0.06 | 12 | \$852 | 81% | 0.3 |
| FE-Penn Power | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Misc. | Heat Pump | ROB | heat pump | 5,870 | 22% | 0.1 | 12 | \$2,437 | 81% | 0.2 |
| FE-Penn Power | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Misc. | Heat Pump | Existing | building | 2,444 | 5.0% | 0.01 | 5 | \$90 | 51% | 0.3 |
| FE-Penn Power | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Misc. | Heat Pump | New | building | 2,444 | 5.0% | 0.01 | 5 | \$90 | 51% | 0.3 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Misc. | Heat Pump | Existing | building | 2,444 | 2.2% | 0.02 | 10 | \$39,918 | 81% | 0.0 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Misc. | Heat Pump | New | building | 2,444 | 2.2% | 0.02 | 10 | \$39,918 | 81% | 0.0 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Misc. | Heat Pump | Existing | building | 2,444 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.1 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Misc. | Heat Pump | New | building | 2,444 | 2.1% | 0.02 | 11 | \$146 | 49% | 0.2 |
| FE-Penn Power | Re-Commissioning (Existing Construction) | No Re-Commissioning | Misc. | Heat Pump | Existing | building | 2,444 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Misc. | Heat Pump | Existing | building | 2,444 | 14% | 0.1 | 15 | \$5,133 | 26% | 0.0 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Misc. | Heat Pump | New | building | 2,444 | 0.4% | 0.00 | 15 | \$3,937 | 94% | 0.0 |
| FE-Penn Power | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Misc. | Heat Pump | Early | heat pump | 9,861 | 34% | 0.3 | 15 | \$35,347 | 28% | 0.0 |
| FE-Penn Power | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Misc. | Heat Pump | New | heat pump | 9,355 | 31% | 0.2 | 15 | \$15,739 | 28% | 0.1 |
| FE-Penn Power | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Misc. | Heat Pump | ROB | heat pump | 9,355 | 31% | 0.2 | 15 | \$15,739 | 28% | 0.1 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Misc. | High Bay Lighting | Early | Fixture | 596 | 9.6% | 0.01 | 13 | \$850 | 39% | 0.0 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Misc. | High Bay Lighting | Early | Fixture | 595 | 9.5% | 0.01 | 13 | \$850 | 28% | 0.0 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Misc. | High Bay Lighting | Early | Fixture | 919 | 41% | 0.09 | 13 | \$850 | 36% | 0.3 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Misc. | High Bay Lighting | New | Fixture | 453 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Misc. | High Bay Lighting | New | Fixture | 422 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Misc. | High Bay Lighting | New | Fixture | 699 | 41% | 0.07 | 13 | \$397 | 36% | 0.4 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Misc. | High Bay Lighting | ROB | Fixture | 596 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Misc. | High Bay Lighting | ROB | Fixture | 555 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Misc. | High Bay Lighting | ROB | Fixture | 919 | 41% | 0.09 | 13 | \$397 | 36% | 0.5 |
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Misc. | High Bay Lighting | Early | Fixture | 1,157 | 19% | 0.05 | 13 | \$851 | 38% | 0.1 |
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Misc. | High Bay Lighting | Early | Fixture | 1,171 | 20% | 0.06 | 13 | \$851 | 38% | 0.2 |
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | Early | Fixture | 3,407 | 73% | 0.6 | 13 | \$851 | 38% | 1.6 |
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Misc. | High Bay Lighting | New | Fixture | 879 | 19% | 0.04 | 13 | \$372 | 38% | 0.3 |
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | New | Fixture | 2,590 | 73% | 0.5 | 13 | \$383 | 38% | 2.8 |
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Misc. | High Bay Lighting | ROB | Fixture | 1,157 | 19% | 0.05 | 13 | \$372 | 38% | 0.3 |
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | ROB | Fixture | 3,407 | 73% | 0.6 | 13 | \$383 | 38% | 3.6 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Misc. | High Bay Lighting | Early | Fixture | 1,157 | 25% | 0.07 | 13 | \$554 | 29% | 0.3 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Misc. | High Bay Lighting | Early | Fixture | 1,136 | 23% | 0.06 | 13 | \$554 | 28% | 0.3 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | Early | Fixture | 3,407 | 74% | 0.6 | 13 | \$554 | 36% | 2.6 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Misc. | High Bay Lighting | New | Fixture | 879 | 25% | 0.05 | 13 | \$75 | 29% | 1.6 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | New | Fixture | 2,590 | 74% | 0.5 | 13 | \$86 | 36% | 12.6 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Misc. | High Bay Lighting | ROB | Fixture | 1,157 | 25% | 0.07 | 13 | \$75 | 29% | 2.1 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | ROB | Fixture | 3,407 | 74% | 0.6 | 13 | \$86 | 36% | 16.6 |
| FE-Penn Power | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Misc. | High Bay Lighting | Early | Fixture | 302 | 0.2% | 0.00 | 13 | \$835 | 38% | 0.0 |
| FE-Penn Power | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Misc. | High Bay Lighting | Early | Fixture | 650 | 54% | 0.09 | 13 | \$835 | 38% | 0.2 |
| FE-Penn Power | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Misc. | High Bay Lighting | New | Fixture | 494 | 54% | 0.06 | 13 | \$382 | 38% | 0.4 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|---|---------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Misc. | High Bay Lighting | ROB | Fixture | 650 | 54% | 0.09 | 13 | \$382 | 38% | 0.5 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Misc. | High Bay Lighting | Early | Fixture | 1,474 | 18% | 0.07 | 13 | \$487 | 25% | 0.3 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Misc. | High Bay Lighting | Early | Fixture | 1,541 | 22% | 0.08 | 13 | \$487 | 28% | 0.4 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | Early | Fixture | 3,407 | 65% | 0.5 | 13 | \$487 | 36% | 2.5 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Misc. | High Bay Lighting | New | Fixture | 1,120 | 18% | 0.05 | 13 | \$16 | 25% | 7.1 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | New | Fixture | 2,590 | 65% | 0.4 | 13 | \$18 | 36% | 51.2 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Misc. | High Bay Lighting | ROB | Fixture | 1,474 | 18% | 0.07 | 13 | \$16 | 25% | 9.3 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | ROB | Fixture | 3,407 | 65% | 0.5 | 13 | \$18 | 36% | 67.3 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Misc. | High Bay Lighting | Early | Fixture | 1,474 | 1.5% | 0.01 | 13 | \$557 | 19% | 0.0 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Misc. | High Bay Lighting | Early | Fixture | 1,517 | 4.3% | 0.02 | 13 | \$557 | 19% | 0.1 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | Early | Fixture | 3,407 | 57% | 0.5 | 13 | \$557 | 19% | 2.0 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Misc. | High Bay Lighting | New | Fixture | 1,120 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | New | Fixture | 2,590 | 57% | 0.4 | 13 | \$88 | 19% | 9.5 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Misc. | High Bay Lighting | ROB | Fixture | 1,474 | 1.5% | 0.01 | 13 | \$86 | 19% | 0.1 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | ROB | Fixture | 3,407 | 57% | 0.5 | 13 | \$88 | 19% | 12.5 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Misc. | High Bay Lighting | Early | Fixture | 626 | 29% | 0.03 | 13 | \$492 | 71% | 0.2 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Misc. | High Bay Lighting | Early | Fixture | 523 | 15% | 0.01 | 13 | \$492 | 95% | 0.1 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Misc. | High Bay Lighting | Early | Fixture | 777 | 43% | 0.06 | 13 | \$492 | 95% | 0.3 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Misc. | High Bay Lighting | Early | Fixture | 721 | 38% | 0.05 | 13 | \$492 | 95% | 0.3 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Misc. | High Bay Lighting | New | Fixture | 398 | 15% | 0.01 | 13 | \$25 | 95% | 1.2 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Misc. | High Bay Lighting | New | Fixture | 591 | 43% | 0.04 | 13 | \$51 | 95% | 2.5 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Misc. | High Bay Lighting | ROB | Fixture | 523 | 15% | 0.01 | 13 | \$25 | 95% | 1.6 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Misc. | High Bay Lighting | ROB | Fixture | 777 | 43% | 0.06 | 13 | \$51 | 95% | 3.3 |
| FE-Penn Power | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Misc. | High Bay Lighting | Early | lamp | 104 | 16% | 0.00 | 10 | \$7.7 | 99% | 1.0 |
| FE-Penn Power | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Misc. | High Bay Lighting | New | lamp | 62 | 13% | 0.00 | 10 | \$1.6 | 91% | 2.1 |
| FE-Penn Power | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Misc. | High Bay Lighting | ROB | lamp | 99 | 13% | 0.00 | 10 | \$1.6 | 91% | 3.4 |
| FE-Penn Power | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Misc. | High Bay Lighting | Early | Fixture | 3,487 | 23% | 0.2 | 13 | \$613 | 5% | 0.7 |
| FE-Penn Power | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Misc. | High Bay Lighting | Early | Fixture | 2,739 | 1.6% | 0.01 | 13 | \$613 | 28% | 0.0 |
| FE-Penn Power | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | Early | Fixture | 6,815 | 60% | 1.0 | 13 | \$613 | 18% | 3.8 |
| FE-Penn Power | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Misc. | High Bay Lighting | New | Fixture | 2,650 | 23% | 0.1 | 13 | \$96 | 5% | 3.5 |
| FE-Penn Power | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Misc. | High Bay Lighting | ROB | Fixture | 3,487 | 23% | 0.2 | 13 | \$96 | 5% | 4.6 |
| FE-Penn Power | Auto Off Time Switch | Lighting w/ No Controls | Misc. | High Bay Lighting | Existing | building | 2,615 | 24% | 0.2 | 8 | \$997 | 13% | 0.3 |
| FE-Penn Power | Auto Off Time Switch | Lighting w/ No Controls | Misc. | High Bay Lighting | New | building | 2,615 | 6.9% | 0.07 | 8 | \$997 | 0% | 0.1 |
| FE-Penn Power | Central Lighting Control System | Lighting w/ No Controls | Misc. | High Bay Lighting | Existing | building | 2,615 | 38% | 0.4 | 8 | \$997 | 13% | 0.5 |
| FE-Penn Power | Central Lighting Control System | Lighting w/ No Controls | Misc. | High Bay Lighting | New | building | 2,615 | 14% | 0.1 | 8 | \$997 | 13% | 0.2 |
| FE-Penn Power | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Misc. | High Bay Lighting | New | building | 2,615 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.0 |
| FE-Penn Power | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Misc. | High Bay Lighting | New | building | 2,615 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |
| FE-Penn Power | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Misc. | High Bay Lighting | New | building | 2,615 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| FE-Penn Power | Indoor Daylight Sensors | Lighting w/ No Controls | Misc. | High Bay Lighting | Existing | building | 2,615 | 28% | 0.3 | 8 | \$4,908 | 13% | 0.1 |
| FE-Penn Power | Indoor Daylight Sensors | Lighting w/ No Controls | Misc. | High Bay Lighting | New | building | 2,615 | 4.0% | 0.04 | 8 | \$4,908 | 0% | 0.0 |
| FE-Penn Power | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Misc. | High Bay Lighting | Early | Fixture | 3,487 | 92% | 0.8 | 13 | \$1,916 | 95% | 0.9 |
| FE-Penn Power | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | Early | Fixture | 6,815 | 96% | 1.6 | 13 | \$1,916 | 95% | 1.9 |
| FE-Penn Power | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Misc. | High Bay Lighting | New | Fixture | 2,650 | 92% | 0.6 | 13 | \$1,468 | 95% | 0.9 |
| FE-Penn Power | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | New | Fixture | 5,179 | 96% | 1.2 | 13 | \$1,149 | 95% | 2.4 |
| FE-Penn Power | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Misc. | High Bay Lighting | ROB | Fixture | 3,487 | 92% | 0.8 | 13 | \$1,468 | 95% | 1.2 |
| FE-Penn Power | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | ROB | Fixture | 6,815 | 96% | 1.6 | 13 | \$1,149 | 95% | 3.2 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Misc. | High Bay Lighting | Early | Fixture | 1,157 | 67% | 0.2 | 13 | \$960 | 95% | 0.5 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Misc. | High Bay Lighting | Early | Fixture | 3,407 | 89% | 0.7 | 13 | \$960 | 95% | 1.8 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Misc. | High Bay Lighting | Early | Fixture | 935 | 59% | 0.1 | 13 | \$960 | 95% | 0.3 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Misc. | High Bay Lighting | New | Fixture | 879 | 67% | 0.1 | 13 | \$480 | 95% | 0.7 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Misc. | High Bay Lighting | New | Fixture | 2,590 | 89% | 0.6 | 13 | \$491 | 95% | 2.6 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Misc. | High Bay Lighting | New | Fixture | 711 | 59% | 0.1 | 13 | \$406 | 95% | 0.6 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Misc. | High Bay Lighting | ROB | Fixture | 1,157 | 67% | 0.2 | 13 | \$480 | 95% | 0.9 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Misc. | High Bay Lighting | ROB | Fixture | 3,407 | 89% | 0.7 | 13 | \$491 | 95% | 3.5 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Misc. | High Bay Lighting | ROB | Fixture | 935 | 59% | 0.1 | 13 | \$406 | 95% | 0.8 |
| FE-Penn Power | Occupancy Sensor | Lighting w/ No Controls | Misc. | High Bay Lighting | Existing | building | 2,615 | 24% | 0.2 | 8 | \$1,503 | 12% | 0.2 |
| FE-Penn Power | Occupancy Sensor | Lighting w/ No Controls | Misc. | High Bay Lighting | New | building | 2,615 | 6.9% | 0.07 | 8 | \$1,503 | 0% | 0.1 |
| FE-Penn Power | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Misc. | High Bay Lighting | Existing | building | 2,615 | 28% | 0.3 | 8 | \$4,908 | 12% | 0.1 |
| FE-Penn Power | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Misc. | High Bay Lighting | New | building | 2,615 | 4.0% | 0.04 | 8 | \$4,908 | 0% | 0.0 |
| FE-Penn Power | Time Clock Control | Lighting w/ No Controls | Misc. | High Bay Lighting | Existing | building | 2,615 | 28% | 0.3 | 8 | \$997 | 13% | 0.4 |
| FE-Penn Power | Time Clock Control | Lighting w/ No Controls | Misc. | High Bay Lighting | New | building | 2,615 | 4.0% | 0.04 | 8 | \$997 | 0% | 0.1 |
| FE-Penn Power | Auto Off Time Switch | Lighting w/ No Controls | Misc. | Lin. Fluor. Lighting | Existing | building | 24,271 | 24% | 0.2 | 8 | \$997 | 13% | 1.7 |
| FE-Penn Power | Auto Off Time Switch | Lighting w/ No Controls | Misc. | Lin. Fluor. Lighting | New | building | 24,271 | 7.0% | 0.07 | 8 | \$997 | 0% | 0.5 |
| FE-Penn Power | Central Lighting Control System | Lighting w/ No Controls | Misc. | Lin. Fluor. Lighting | Existing | building | 24,271 | 38% | 0.4 | 8 | \$997 | 12% | 2.8 |
| FE-Penn Power | Central Lighting Control System | Lighting w/ No Controls | Misc. | Lin. Fluor. Lighting | New | building | 24,271 | 14% | 0.1 | 8 | \$997 | 12% | 1.0 |
| FE-Penn Power | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Misc. | Lin. Fluor. Lighting | New | building | 24,271 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.0 |
| FE-Penn Power | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Misc. | Lin. Fluor. Lighting | New | building | 24,271 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |
| FE-Penn Power | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Misc. | Lin. Fluor. Lighting | New | building | 24,271 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| FE-Penn Power | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Misc. | Lin. Fluor. Lighting | Early | Lamp | 208 | 38% | 0.01 | 10 | \$7.3 | 94% | 4.6 |
| FE-Penn Power | Indoor Daylight Sensors | Lighting w/ No Controls | Misc. | Lin. Fluor. Lighting | Existing | building | 24,271 | 28% | 0.3 | 8 | \$4,908 | 13% | 0.4 |
| FE-Penn Power | Indoor Daylight Sensors | Lighting w/ No Controls | Misc. | Lin. Fluor. Lighting | New | building | 24,271 | 4.1% | 0.04 | 8 | \$4,908 | 0% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|--|--|---------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | Early | Lamp | 73 | 19% | 0.00 | 15 | \$35 | 94% | 0.3 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 40W T12 Lamp, Magnetic Ballast | Misc. | Lin. Fluor. Lighting | Early | Lamp | 161 | 63% | 0.03 | 15 | \$35 | 94% | 1.8 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | Early | Lamp | 90 | 34% | 0.01 | 15 | \$35 | 94% | 0.6 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | Early | Lamp | 87 | 32% | 0.01 | 15 | \$35 | 94% | 0.5 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | New | Lamp | 56 | 19% | 0.00 | 15 | \$28 | 94% | 0.2 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | New | Lamp | 66 | 32% | 0.01 | 15 | \$29 | 94% | 0.5 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | New | Lamp | 68 | 34% | 0.01 | 15 | \$22 | 94% | 0.7 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | New | Lamp | 66 | 32% | 0.01 | 15 | \$29 | 94% | 0.5 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | ROB | Lamp | 73 | 19% | 0.00 | 15 | \$28 | 94% | 0.3 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | ROB | Lamp | 87 | 32% | 0.01 | 15 | \$29 | 94% | 0.6 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | ROB | Lamp | 90 | 34% | 0.01 | 15 | \$22 | 94% | 0.9 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | ROB | Lamp | 87 | 32% | 0.01 | 15 | \$29 | 94% | 0.6 |
| FE-Penn Power | Occupancy Sensor | Lighting w/ No Controls | Misc. | Lin. Fluor. Lighting | Existing | building | 24,271 | 24% | 0.2 | 8 | \$1,503 | 13% | 1.2 |
| FE-Penn Power | Occupancy Sensor | Lighting w/ No Controls | Misc. | Lin. Fluor. Lighting | New | building | 24,271 | 7.0% | 0.07 | 8 | \$1,503 | 0% | 0.3 |
| FE-Penn Power | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Misc. | Lin. Fluor. Lighting | Existing | building | 24,271 | 28% | 0.3 | 8 | \$4,908 | 12% | 0.4 |
| FE-Penn Power | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Misc. | Lin. Fluor. Lighting | New | building | 24,271 | 4.1% | 0.04 | 8 | \$4,908 | 0% | 0.1 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 40W T12 w/ Magnetic Ballast | Misc. | Lin. Fluor. Lighting | Early | Lamp | 208 | 54% | 0.02 | 10 | \$9.1 | 94% | 5.3 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | Early | Lamp | 133 | 28% | 0.01 | 10 | \$9.1 | 24% | 1.8 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | Early | Lamp | 129 | 26% | 0.01 | 10 | \$9.1 | 94% | 1.6 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | New | Lamp | 98 | 26% | 0.00 | 10 | \$2.5 | 94% | 4.3 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | New | Lamp | 98 | 26% | 0.00 | 10 | \$2.5 | 94% | 4.3 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | New | Lamp | 101 | 28% | 0.00 | 10 | \$2.5 | 24% | 4.8 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | New | Lamp | 98 | 26% | 0.00 | 10 | \$2.5 | 94% | 4.3 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | ROB | Lamp | 129 | 26% | 0.01 | 10 | \$2.5 | 94% | 5.6 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | ROB | Lamp | 129 | 26% | 0.01 | 10 | \$2.5 | 94% | 5.6 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | ROB | Lamp | 133 | 28% | 0.01 | 10 | \$2.5 | 24% | 6.3 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | ROB | Lamp | 129 | 26% | 0.01 | 10 | \$2.5 | 94% | 5.6 |
| FE-Penn Power | T8 Lamp (any length) Electronic Ballast | Standard T12 lamp (any length) | Misc. | Lin. Fluor. Lighting | Early | Lamp | 245 | 42% | 0.02 | 10 | \$14 | 94% | 3.1 |
| FE-Penn Power | Time Clock Control | Lighting w/ No Controls | Misc. | Lin. Fluor. Lighting | Existing | building | 24,271 | 28% | 0.3 | 8 | \$997 | 14% | 2.0 |
| FE-Penn Power | Time Clock Control | Lighting w/ No Controls | Misc. | Lin. Fluor. Lighting | New | building | 24,271 | 4.1% | 0.04 | 8 | \$997 | 0% | 0.3 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | Early | motor | 3,449 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | Early | motor | 3,449 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | Early | motor | 3,449 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | Early | motor | 3,449 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | Early | motor | 3,449 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | New | motor | 3,344 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | New | motor | 3,344 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | New | motor | 3,344 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | New | motor | 3,344 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 3,344 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 3,344 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 3,344 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 3,344 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 3,344 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 3,344 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-Penn Power | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | Early | motor | 5,086 | 3.1% | 0.02 | 15 | \$402 | 76% | 0.2 |
| FE-Penn Power | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | Early | motor | 5,086 | 3.1% | 0.02 | 15 | \$402 | 76% | 0.2 |
| FE-Penn Power | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | Early | motor | 5,086 | 3.0% | 0.02 | 15 | \$402 | 76% | 0.2 |
| FE-Penn Power | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | Early | motor | 5,086 | 3.0% | 0.02 | 15 | \$402 | 76% | 0.2 |
| FE-Penn Power | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | Early | motor | 5,086 | 3.0% | 0.02 | 15 | \$402 | 76% | 0.2 |
| FE-Penn Power | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | New | motor | 4,958 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.2 |
| FE-Penn Power | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | New | motor | 4,958 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.2 |
| FE-Penn Power | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | New | motor | 4,958 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.2 |
| FE-Penn Power | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | New | motor | 4,958 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.2 |
| FE-Penn Power | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | New | motor | 4,958 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.2 |
| FE-Penn Power | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | New | motor | 4,958 | 0.5% | 0.00 | 15 | \$60 | 76% | 0.2 |
| FE-Penn Power | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 4,958 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.2 |
| FE-Penn Power | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 4,958 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.2 |
| FE-Penn Power | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 4,958 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.2 |
| FE-Penn Power | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 4,958 | 0.5% | 0.00 | 15 | \$60 | 76% | 0.2 |
| FE-Penn Power | 10 HP Motor, Ultra-PE | 10 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | Early | motor | 31,843 | 2.6% | 0.1 | 15 | \$962 | 85% | 0.4 |
| FE-Penn Power | 10 HP Motor, Ultra-PE | 10 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | Early | motor | 31,843 | 2.6% | 0.1 | 15 | \$962 | 85% | 0.4 |
| FE-Penn Power | 10 HP Motor, Ultra-PE | 10 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | Early | motor | 31,843 | 2.6% | 0.1 | 15 | \$962 | 85% | 0.4 |
| FE-Penn Power | 10 HP Motor, Ultra-PE | 10 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | Early | motor | 31,843 | 2.6% | 0.1 | 15 | \$962 | 85% | 0.4 |
| FE-Penn Power | 10 HP Motor, Ultra-PE | 10 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | Early | motor | 31,843 | 2.6% | 0.1 | 15 | \$962 | 85% | 0.4 |
| FE-Penn Power | 10 HP Motor, Ultra-PE | 10 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | New | motor | 31,178 | 0.5% | 0.02 | 15 | \$112 | 85% | 0.8 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|--|--|---------|---------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 23,564 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.5 |
| FE-Penn Power | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 23,564 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.5 |
| FE-Penn Power | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | Early | motor | 227,590 | 1.3% | 0.4 | 15 | \$3,955 | 61% | 0.4 |
| FE-Penn Power | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | Early | motor | 227,590 | 1.3% | 0.4 | 15 | \$3,955 | 61% | 0.4 |
| FE-Penn Power | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | Early | motor | 227,590 | 1.3% | 0.4 | 15 | \$3,955 | 61% | 0.4 |
| FE-Penn Power | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | Early | motor | 227,590 | 1.3% | 0.4 | 15 | \$3,955 | 61% | 0.4 |
| FE-Penn Power | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | New | motor | 225,714 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.1 |
| FE-Penn Power | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | New | motor | 225,714 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.1 |
| FE-Penn Power | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | New | motor | 225,714 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.1 |
| FE-Penn Power | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | New | motor | 225,714 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.0 |
| FE-Penn Power | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 225,714 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.1 |
| FE-Penn Power | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 225,714 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.1 |
| FE-Penn Power | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 225,714 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.1 |
| FE-Penn Power | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 225,714 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.1 |
| FE-Penn Power | Downsizing motor during retrofit | Larger hp standard motor | Misc. | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 17.8 |
| FE-Penn Power | Downsizing motor during retrofit | Larger hp standard motor | Misc. | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 18.0 |
| FE-Penn Power | Downsizing motor during retrofit | Larger hp standard motor | Misc. | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 18.3 |
| FE-Penn Power | Downsizing motor during retrofit | Larger hp standard motor | Misc. | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 18.7 |
| FE-Penn Power | Downsizing motor during retrofit | Larger hp standard motor | Misc. | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 19.3 |
| FE-Penn Power | Downsizing motor during retrofit | Larger hp standard motor | Misc. | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 17.7 |
| FE-Penn Power | Downsizing motor during retrofit | Larger hp standard motor | Misc. | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 18.2 |
| FE-Penn Power | Downsizing motor during retrofit | Larger hp standard motor | Misc. | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 18.5 |
| FE-Penn Power | Downsizing motor during retrofit | Larger hp standard motor | Misc. | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 18.9 |
| FE-Penn Power | Downsizing motor during retrofit | Larger hp standard motor | Misc. | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 19.1 |
| FE-Penn Power | Escalator Motor Controller | Constant power control | Misc. | Motors | New | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 45% | 4.8 |
| FE-Penn Power | Escalator Motor Controller | Constant power control | Misc. | Motors | ROB | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 45% | 4.8 |
| FE-Penn Power | Variable Speed Drive Control, 15HP | Existing Motors w/out VSD Drive | Misc. | Motors | Early | motor | 47,127 | 70% | 4.4 | 15 | \$731 | 86% | 23.1 |
| FE-Penn Power | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Misc. | Motors | New | motor | 46,114 | 71% | 4.4 | 15 | \$731 | 86% | 23.1 |
| FE-Penn Power | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Misc. | Motors | ROB | motor | 46,114 | 71% | 4.4 | 15 | \$731 | 86% | 23.1 |
| FE-Penn Power | Variable Speed Drive Control, 40HP | Existing Motors w/out VSD Drive | Misc. | Motors | Early | motor | 122,970 | 71% | 11.5 | 15 | \$4,666 | 86% | 9.5 |
| FE-Penn Power | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Misc. | Motors | New | motor | 121,532 | 72% | 11.5 | 15 | \$4,666 | 86% | 9.5 |
| FE-Penn Power | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Misc. | Motors | ROB | motor | 121,532 | 72% | 11.5 | 15 | \$4,666 | 86% | 9.5 |
| FE-Penn Power | Variable Speed Drive Control, 5HP | Existing Motors w/out VFD Drive | Misc. | Motors | Early | motor | 16,337 | 70% | 1.5 | 15 | \$2,243 | 86% | 2.6 |
| FE-Penn Power | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Misc. | Motors | New | motor | 15,972 | 72% | 1.5 | 15 | \$2,243 | 86% | 2.6 |
| FE-Penn Power | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Misc. | Motors | ROB | motor | 15,972 | 72% | 1.5 | 15 | \$2,243 | 86% | 2.6 |
| FE-Penn Power | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Misc. | Motors | Early | motor | 4,943 | 23% | 0.1 | 15 | \$268 | 13% | 2.1 |
| FE-Penn Power | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Misc. | Motors | New | motor | 4,943 | 23% | 0.1 | 15 | \$268 | 13% | 2.1 |
| FE-Penn Power | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Misc. | Motors | ROB | motor | 4,943 | 23% | 0.1 | 15 | \$268 | 13% | 2.1 |
| FE-Penn Power | VFD on Chilled Water Pump | Motor w/out VFD Drive | Misc. | Motors | Early | motor | 15,992 | 54% | 1.1 | 15 | \$2,903 | 86% | 1.5 |
| FE-Penn Power | VFD on Chilled Water Pump | Motor w/out VFD Drive | Misc. | Motors | New | motor | 15,693 | 41% | 0.8 | 15 | \$2,843 | 86% | 1.2 |
| FE-Penn Power | VFD on Chilled Water Pump | Motor w/out VFD Drive | Misc. | Motors | ROB | motor | 15,693 | 55% | 1.1 | 15 | \$2,843 | 86% | 1.6 |
| FE-Penn Power | VFD on Condenser Water Pump | Motor w/out VFD Drive | Misc. | Motors | Early | motor | 15,905 | 32% | 0.7 | 15 | \$2,903 | 86% | 0.9 |
| FE-Penn Power | VFD on Condenser Water Pump | Motor w/out VFD Drive | Misc. | Motors | New | motor | 15,607 | 33% | 0.7 | 15 | \$2,843 | 86% | 0.9 |
| FE-Penn Power | VFD on Condenser Water Pump | Motor w/out VFD Drive | Misc. | Motors | ROB | motor | 15,607 | 33% | 0.7 | 15 | \$2,843 | 86% | 0.9 |
| FE-Penn Power | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Misc. | Motors | Early | motor | 29,846 | 56% | 2.2 | 15 | \$2,903 | 86% | 2.9 |
| FE-Penn Power | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Misc. | Motors | New | motor | 29,288 | 57% | 2.2 | 15 | \$2,843 | 86% | 3.0 |
| FE-Penn Power | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Misc. | Motors | ROB | motor | 29,288 | 57% | 2.2 | 15 | \$2,843 | 86% | 3.0 |
| FE-Penn Power | VFD on HVAC Fan | Motor w/out VFD | Misc. | Motors | Early | motor | 15,992 | 70% | 1.5 | 15 | \$2,903 | 86% | 2.0 |
| FE-Penn Power | VFD on HVAC Fan | Motor w/out VFD | Misc. | Motors | New | motor | 15,693 | 72% | 1.5 | 15 | \$2,843 | 86% | 2.0 |
| FE-Penn Power | VFD on HVAC Fan | Motor w/out VFD | Misc. | Motors | ROB | motor | 15,693 | 72% | 1.5 | 15 | \$2,843 | 86% | 2.0 |
| FE-Penn Power | Variable Speed Drives on Process Equipment | Constant speed control | Misc. | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 9% | 9.2 |
| FE-Penn Power | Variable Speed Drives on Process Equipment | Constant speed control | Misc. | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 9% | 9.2 |
| FE-Penn Power | Auto Off Time Switch | Lighting w/ No Controls | Misc. | Other Int. Lighting | Existing | building | 7,580 | 24% | 0.2 | 8 | \$997 | 13% | 0.6 |
| FE-Penn Power | Auto Off Time Switch | Lighting w/ No Controls | Misc. | Other Int. Lighting | New | building | 7,580 | 7.0% | 0.07 | 8 | \$997 | 0% | 0.2 |
| FE-Penn Power | Central Lighting Control System | Lighting w/ No Controls | Misc. | Other Int. Lighting | Existing | building | 7,580 | 38% | 0.4 | 8 | \$997 | 13% | 1.0 |
| FE-Penn Power | Central Lighting Control System | Lighting w/ No Controls | Misc. | Other Int. Lighting | New | building | 7,580 | 14% | 0.1 | 8 | \$997 | 13% | 0.4 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 40W Incandescent Bulb | Misc. | Other Int. Lighting | Early | lamp | 169 | 87% | 0.04 | 9 | \$30 | 14% | 2.2 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Misc. | Other Int. Lighting | Early | lamp | 121 | 81% | 0.02 | 9 | \$30 | 11% | 1.5 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Misc. | Other Int. Lighting | New | lamp | 92 | 81% | 0.02 | 9 | \$21 | 14% | 1.6 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Misc. | Other Int. Lighting | New | lamp | 92 | 81% | 0.02 | 9 | \$23 | 14% | 1.5 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Misc. | Other Int. Lighting | New | lamp | 92 | 81% | 0.02 | 9 | \$22 | 11% | 1.5 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Misc. | Other Int. Lighting | ROB | lamp | 121 | 81% | 0.02 | 9 | \$21 | 14% | 2.0 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Misc. | Other Int. Lighting | ROB | lamp | 121 | 81% | 0.02 | 9 | \$23 | 14% | 1.9 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Misc. | Other Int. Lighting | ROB | lamp | 121 | 81% | 0.02 | 9 | \$22 | 11% | 2.0 |
| FE-Penn Power | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Misc. | Other Int. Lighting | Early | lamp | 169 | 75% | 0.03 | 4 | \$73 | 24% | 0.4 |
| FE-Penn Power | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Misc. | Other Int. Lighting | New | fixture | 184 | 65% | 0.03 | 13 | \$29 | 28% | 2.4 |
| FE-Penn Power | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Misc. | Other Int. Lighting | New | lamp | 92 | 65% | 0.01 | 4 | \$29 | 28% | 0.5 |
| FE-Penn Power | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Misc. | Other Int. Lighting | ROB | fixture | 242 | 65% | 0.04 | 13 | \$29 | 24% | 3.1 |
| FE-Penn Power | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Misc. | Other Int. Lighting | ROB | lamp | 121 | 65% | 0.02 | 4 | \$29 | 24% | 0.7 |
| FE-Penn Power | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Misc. | Other Int. Lighting | Early | lamp | 169 | 75% | 0.03 | 4 | \$3.2 | 24% | 9.4 |
| FE-Penn Power | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Misc. | Other Int. Lighting | New | lamp | 92 | 65% | 0.01 | 4 | \$1.8 | 24% | 8.0 |
| FE-Penn Power | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Misc. | Other Int. Lighting | ROB | lamp | 121 | 65% | 0.02 | 4 | \$1.8 | 24% | 10.5 |
| FE-Penn Power | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Misc. | Other Int. Lighting | ROB | lamp | 121 | 65% | 0.02 | 4 | \$1.8 | 24% | 10.5 |
| FE-Penn Power | Exit Sign Retrofit: CFL replacing Incandescent | One 23W Single Sided Incandescent Exit Sign | Misc. | Other Int. Lighting | Early | exit sign | 136 | 42% | 0.01 | 15 | \$48 | 22% | 0.6 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|---|---------|---------------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Misc. | Other Int. Lighting | New | building | 7,580 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.0 |
| FE-Penn Power | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Misc. | Other Int. Lighting | New | building | 7,580 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |
| FE-Penn Power | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Misc. | Other Int. Lighting | New | building | 7,580 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| FE-Penn Power | Indoor Daylight Sensors | Lighting w/ No Controls | Misc. | Other Int. Lighting | Existing | building | 7,580 | 28% | 0.3 | 8 | \$4,908 | 13% | 0.2 |
| FE-Penn Power | Indoor Daylight Sensors | Lighting w/ No Controls | Misc. | Other Int. Lighting | New | building | 7,580 | 4.1% | 0.04 | 8 | \$4,908 | 0% | 0.0 |
| FE-Penn Power | LED Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Misc. | Other Int. Lighting | Early | sign | 88 | 78% | 0.01 | 15 | \$48 | 16% | 0.8 |
| FE-Penn Power | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Misc. | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 1.6 |
| FE-Penn Power | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Misc. | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 1.6 |
| FE-Penn Power | LED Task Lighting/Screw-In | 1 15W CFL bulb | Misc. | Other Int. Lighting | Early | lamp | 30 | 33% | 0.00 | 12 | \$9.6 | 24% | 0.5 |
| FE-Penn Power | LED Task Lighting/Screw-In | 1 60W Incandescent Bulb | Misc. | Other Int. Lighting | Early | lamp | 119 | 83% | 0.02 | 12 | \$9.6 | 24% | 5.2 |
| FE-Penn Power | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Misc. | Other Int. Lighting | New | lamp | 65 | 77% | 0.01 | 12 | \$7.9 | 24% | 3.1 |
| FE-Penn Power | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Misc. | Other Int. Lighting | New | lamp | 65 | 77% | 0.01 | 12 | \$7.9 | 24% | 3.1 |
| FE-Penn Power | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Misc. | Other Int. Lighting | ROB | lamp | 86 | 77% | 0.01 | 12 | \$7.9 | 24% | 4.1 |
| FE-Penn Power | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Misc. | Other Int. Lighting | ROB | lamp | 86 | 77% | 0.01 | 12 | \$7.9 | 24% | 4.1 |
| FE-Penn Power | Occupancy Sensor | Lighting w/ No Controls | Misc. | Other Int. Lighting | Existing | building | 7,580 | 24% | 0.2 | 8 | \$1,503 | 12% | 0.4 |
| FE-Penn Power | Occupancy Sensor | Lighting w/ No Controls | Misc. | Other Int. Lighting | New | building | 7,580 | 7.0% | 0.07 | 8 | \$1,503 | 0% | 0.1 |
| FE-Penn Power | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Misc. | Other Int. Lighting | Existing | building | 7,580 | 28% | 0.3 | 8 | \$4,908 | 12% | 0.2 |
| FE-Penn Power | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Misc. | Other Int. Lighting | New | building | 7,580 | 4.1% | 0.04 | 8 | \$4,908 | 0% | 0.0 |
| FE-Penn Power | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Misc. | Other Int. Lighting | Early | exit sign | 136 | 100% | 0.02 | 15 | \$173 | 26% | 0.4 |
| FE-Penn Power | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Misc. | Other Int. Lighting | New | exit sign | 78 | 100% | 0.01 | 15 | \$148 | 31% | 0.3 |
| FE-Penn Power | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Misc. | Other Int. Lighting | ROB | exit sign | 78 | 100% | 0.01 | 15 | \$148 | 26% | 0.3 |
| FE-Penn Power | Time Clock Control | Lighting w/ No Controls | Misc. | Other Int. Lighting | Existing | building | 7,580 | 28% | 0.3 | 8 | \$997 | 13% | 0.7 |
| FE-Penn Power | Time Clock Control | Lighting w/ No Controls | Misc. | Other Int. Lighting | New | building | 7,580 | 4.1% | 0.04 | 8 | \$997 | 0% | 0.1 |
| FE-Penn Power | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Misc. | Plug Load | Existing | building | 2,913 | 46% | 0.5 | 5 | \$189 | 4% | 2.2 |
| FE-Penn Power | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Misc. | Plug Load | New | building | 1,422 | 46% | 0.5 | 5 | \$189 | 4% | 1.5 |
| FE-Penn Power | Data Center - Server/Storage Consolidation | No Consolidation | Misc. | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penn Power | Data Center - Server/Storage Consolidation | No Consolidation | Misc. | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penn Power | Data Center - Server/Storage Virtualization | No Virtualization | Misc. | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penn Power | Data Center - Server/Storage Virtualization | No Virtualization | Misc. | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penn Power | Energy Star - Scanners | Std Scanner | Misc. | Plug Load | New | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| FE-Penn Power | Energy Star - Scanners | Std Scanner | Misc. | Plug Load | ROB | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| FE-Penn Power | Energy Star Dishwasher | Existing Dishwasher units | Misc. | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,580 | 6% | 0.9 |
| FE-Penn Power | Energy Star Dishwasher | Standard Dishwasher unit | Misc. | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 6% | 2.8 |
| FE-Penn Power | Energy Star Dishwasher | Standard Dishwasher unit | Misc. | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 6% | 2.8 |
| FE-Penn Power | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Misc. | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 17% | 0.1 |
| FE-Penn Power | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Misc. | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 1.7 |
| FE-Penn Power | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Misc. | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 1.7 |
| FE-Penn Power | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Misc. | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 64% | 0.7 |
| FE-Penn Power | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Misc. | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 64% | 1.5 |
| FE-Penn Power | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Misc. | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 64% | 1.5 |
| FE-Penn Power | ENERGY STAR® Copiers | 10% Less Efficient Copier | Misc. | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 18% | 0.0 |
| FE-Penn Power | ENERGY STAR® Copiers | One Conventional Copier | Misc. | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| FE-Penn Power | ENERGY STAR® Copiers | One Conventional Copier | Misc. | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| FE-Penn Power | ENERGY STAR® desktop | Standard computer | Misc. | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 69% | 0.1 |
| FE-Penn Power | ENERGY STAR® desktop | Standard computer | Misc. | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.2 |
| FE-Penn Power | ENERGY STAR® desktop | Standard computer | Misc. | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.2 |
| FE-Penn Power | ENERGY STAR® Fax | 10% Less Efficient Fax | Misc. | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 15% | 0.0 |
| FE-Penn Power | ENERGY STAR® Fax | One Conventional Fax | Misc. | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.1 |
| FE-Penn Power | ENERGY STAR® Fax | One Conventional Fax | Misc. | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.1 |
| FE-Penn Power | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Misc. | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 70% | 0.0 |
| FE-Penn Power | ENERGY STAR® Monitors | One Conventional Monitor | Misc. | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| FE-Penn Power | ENERGY STAR® Monitors | One Conventional Monitor | Misc. | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| FE-Penn Power | ENERGY STAR® Printers | 10% Less Efficient Printer | Misc. | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 44% | 0.0 |
| FE-Penn Power | ENERGY STAR® Printers | One Conventional Printer | Misc. | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| FE-Penn Power | ENERGY STAR® Printers | One Conventional Printer | Misc. | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| FE-Penn Power | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Misc. | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 43% | 0.1 |
| FE-Penn Power | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Misc. | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.6 |
| FE-Penn Power | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Misc. | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.6 |
| FE-Penn Power | ENERGY STAR® Televisions | 10% Less Efficient Television | Misc. | Plug Load | Early | Unit | 221 | 38% | 0.02 | 6 | \$672 | 40% | 0.0 |
| FE-Penn Power | ENERGY STAR® Televisions | One Conventional Television | Misc. | Plug Load | New | Unit | 201 | 32% | 0.01 | 6 | \$206 | 40% | 0.1 |
| FE-Penn Power | ENERGY STAR® Televisions | One Conventional Television | Misc. | Plug Load | ROB | Unit | 201 | 32% | 0.01 | 6 | \$206 | 40% | 0.1 |
| FE-Penn Power | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Misc. | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 24% | 0.2 |
| FE-Penn Power | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Misc. | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.5 |
| FE-Penn Power | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Misc. | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.5 |
| FE-Penn Power | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Misc. | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|--|---------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Misc. | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.2 |
| FE-Penn Power | Network PC Power Management | No PC Power Management | Misc. | Plug Load | Existing | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 7.4 |
| FE-Penn Power | Network PC Power Management | No PC Power Management | Misc. | Plug Load | New | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 7.4 |
| FE-Penn Power | Smart Strip Plug Outlets | Standard plug strip/outlet | Misc. | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.3 |
| FE-Penn Power | Smart Strip Plug Outlets | Standard plug strip/outlet | Misc. | Plug Load | Early | Smart Strip | 378 | 26% | 0.01 | 5 | \$21 | 85% | 1.0 |
| FE-Penn Power | Smart Strip Plug Outlets | Standard plug strip/outlet | Misc. | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| FE-Penn Power | Smart Strip Plug Outlets | Standard plug strip/outlet | Misc. | Plug Load | New | Smart Strip | 296 | 42% | 0.01 | 5 | \$21 | 85% | 1.2 |
| FE-Penn Power | Smart Strip Plug Outlets | Standard plug strip/outlet | Misc. | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| FE-Penn Power | Smart Strip Plug Outlets | Standard plug strip/outlet | Misc. | Plug Load | ROB | Smart Strip | 296 | 42% | 0.01 | 5 | \$21 | 85% | 1.2 |
| FE-Penn Power | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Misc. | Plug Load | Existing | building | 2,913 | 46% | 0.5 | 5 | \$180 | 3% | 2.3 |
| FE-Penn Power | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Misc. | Plug Load | New | building | 1,422 | 46% | 0.5 | 5 | \$180 | 3% | 1.6 |
| FE-Penn Power | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Misc. | Refrigeration | Existing | building | 895 | 3.6% | 0.04 | 12 | \$70 | 11% | 0.5 |
| FE-Penn Power | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Misc. | Refrigeration | New | building | 895 | 3.6% | 0.04 | 12 | \$70 | 11% | 0.5 |
| FE-Penn Power | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Misc. | Refrigeration | Existing | building | 895 | 1.4% | 0.01 | 12 | \$70 | 11% | 0.2 |
| FE-Penn Power | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Misc. | Refrigeration | New | building | 895 | 1.4% | 0.01 | 12 | \$70 | 11% | 0.2 |
| FE-Penn Power | Auto Closer on Refrigerator Door | Door w/out Autocloser | Misc. | Refrigeration | Existing | building | 3,578 | 23% | 0.2 | 8 | \$642 | 40% | 0.5 |
| FE-Penn Power | Auto Closer on Refrigerator Door | Door w/out Autocloser | Misc. | Refrigeration | Existing | building | 5,963 | 14% | 0.1 | 8 | \$700 | 40% | 0.4 |
| FE-Penn Power | Auto Closer on Refrigerator Door | Door w/out Autocloser | Misc. | Refrigeration | New | building | 3,578 | 23% | 0.2 | 8 | \$642 | 40% | 0.5 |
| FE-Penn Power | Auto Closer on Refrigerator Door | Door w/out Autocloser | Misc. | Refrigeration | New | building | 5,963 | 14% | 0.1 | 8 | \$700 | 40% | 0.4 |
| FE-Penn Power | Demand Hot Gas Defrost | Base Refrigeration System | Misc. | Refrigeration | Existing | building | 895 | 3.0% | 0.03 | 10 | \$1,360 | 0% | 0.0 |
| FE-Penn Power | Demand Hot Gas Defrost | Base Refrigeration System | Misc. | Refrigeration | New | building | 895 | 3.0% | 0.03 | 10 | \$1,360 | 0% | 0.0 |
| FE-Penn Power | Door Gasket- Freezer | Door w/out Gasket | Misc. | Refrigeration | Existing | building | 3,578 | 14% | 0.1 | 4 | \$66 | 29% | 1.7 |
| FE-Penn Power | Door Gasket- Freezer | Door w/out Gasket | Misc. | Refrigeration | New | building | 3,578 | 7.0% | 0.07 | 4 | \$66 | 29% | 0.9 |
| FE-Penn Power | Door Gasket- Refrigerator | Door w/out Gasket | Misc. | Refrigeration | Existing | building | 5,963 | 4.4% | 0.04 | 4 | \$97 | 45% | 0.5 |
| FE-Penn Power | Door Gasket- Refrigerator | Door w/out Gasket | Misc. | Refrigeration | New | building | 5,963 | 4.4% | 0.04 | 4 | \$97 | 45% | 0.5 |
| FE-Penn Power | eCube | Refrigeration unit w/out eCube | Misc. | Refrigeration | Existing | building | 5,963 | 15% | 0.2 | 15 | \$601 | 57% | 0.8 |
| FE-Penn Power | eCube | Refrigeration unit w/out eCube | Misc. | Refrigeration | New | building | 5,963 | 15% | 0.2 | 15 | \$601 | 57% | 0.8 |
| FE-Penn Power | Efficient compressor motor | Base Refrigeration System - Grocery | Misc. | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.3 |
| FE-Penn Power | Efficient compressor motor | Base Refrigeration System - Grocery | Misc. | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.4 |
| FE-Penn Power | Efficient compressor motor | Base Refrigeration System - Grocery | Misc. | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.3 |
| FE-Penn Power | Efficient compressor motor | Base Refrigeration System - Grocery | Misc. | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.4 |
| FE-Penn Power | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Misc. | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.4 |
| FE-Penn Power | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Misc. | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.2 |
| FE-Penn Power | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Misc. | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.2 |
| FE-Penn Power | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Misc. | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.2 |
| FE-Penn Power | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Misc. | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.6 |
| FE-Penn Power | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Misc. | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.6 |
| FE-Penn Power | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Misc. | Refrigeration | Existing | building | 5,963 | 1.7% | 0.02 | 10 | \$369 | 77% | 0.1 |
| FE-Penn Power | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Misc. | Refrigeration | New | building | 5,963 | 1.7% | 0.02 | 10 | \$369 | 77% | 0.1 |
| FE-Penn Power | Floating head pressure controller | System w/out FHPC | Misc. | Refrigeration | Existing | building | 3,578 | 6.5% | 0.03 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penn Power | Floating head pressure controller | System w/out FHPC | Misc. | Refrigeration | Existing | building | 895 | 11% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penn Power | Floating head pressure controller | System w/out FHPC | Misc. | Refrigeration | Existing | building | 5,963 | 1.3% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penn Power | Floating head pressure controller | System w/out FHPC | Misc. | Refrigeration | New | building | 3,578 | 6.5% | 0.03 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penn Power | Floating head pressure controller | System w/out FHPC | Misc. | Refrigeration | New | building | 895 | 11% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penn Power | Floating head pressure controller | System w/out FHPC | Misc. | Refrigeration | New | building | 5,963 | 1.3% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penn Power | High Efficiency Commercial Freezer | Std. Commercial Freezer | Misc. | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 86% | 0.3 |
| FE-Penn Power | High Efficiency Commercial Freezer | Std. Commercial Freezer | Misc. | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 3.2 |
| FE-Penn Power | High Efficiency Commercial Freezer | Std. Commercial Freezer | Misc. | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 3.2 |
| FE-Penn Power | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Misc. | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 2% | 0.1 |
| FE-Penn Power | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Misc. | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.7 |
| FE-Penn Power | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Misc. | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.7 |
| FE-Penn Power | High Efficiency Ice Maker | Existing Standard Efficiency Ice Maker in Pennsylvania | Misc. | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 73% | 0.1 |
| FE-Penn Power | High Efficiency Ice Maker | Standard code minimum Ice Maker | Misc. | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.1 |
| FE-Penn Power | High Efficiency Ice Maker | Standard code minimum Ice Maker | Misc. | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.1 |
| FE-Penn Power | High Efficiency Ice Making Head | Standard Ice Making Head | Misc. | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.2 |
| FE-Penn Power | High Efficiency Ice Making Head | Standard Ice Making Head | Misc. | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.2 |
| FE-Penn Power | High R-Value Glass Doors | Base Refrigeration System - Grocery | Misc. | Refrigeration | Existing | building | 895 | 0.7% | 0.01 | 10 | \$15 | 0% | 0.4 |
| FE-Penn Power | High R-Value Glass Doors | Base Refrigeration System - Grocery | Misc. | Refrigeration | New | building | 895 | 0.7% | 0.01 | 10 | \$15 | 0% | 0.4 |
| FE-Penn Power | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Misc. | Refrigeration | Early | Fixture | 373 | 56% | 0.02 | 8 | \$448 | 47% | 0.1 |
| FE-Penn Power | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Misc. | Refrigeration | New | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 47% | 0.3 |
| FE-Penn Power | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Misc. | Refrigeration | ROB | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 47% | 0.3 |
| FE-Penn Power | No-heat glass doors | Standard low-temp reach-in | Misc. | Refrigeration | Existing | building | 895 | 20% | 0.2 | 10 | \$1,407 | 8% | 0.1 |
| FE-Penn Power | No-heat glass doors | Standard low-temp reach-in | Misc. | Refrigeration | New | building | 895 | 20% | 0.2 | 10 | \$1,407 | 8% | 0.1 |
| FE-Penn Power | Quick acting freezer doors | Std. Freezer Doors | Misc. | Refrigeration | Existing | building | 3,578 | 13% | 0.1 | 10 | \$828 | 56% | 0.3 |
| FE-Penn Power | Quick acting freezer doors | Std. Freezer Doors | Misc. | Refrigeration | New | building | 3,578 | 13% | 0.1 | 10 | \$828 | 56% | 0.3 |
| FE-Penn Power | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Misc. | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 30% | 0.3 |
| FE-Penn Power | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Misc. | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|---|---------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Misc. | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.3 |
| FE-Penn Power | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 30% | 1.3 |
| FE-Penn Power | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 2.2 |
| FE-Penn Power | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 2.2 |
| FE-Penn Power | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 30% | 1.3 |
| FE-Penn Power | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 3.0 |
| FE-Penn Power | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 3.0 |
| FE-Penn Power | Refrigeration Commissioning | Non-commissioned refrigeration system | Misc. | Refrigeration | Existing | building | 10,436 | 9.5% | 0.10 | 3 | \$3,556 | 85% | 0.0 |
| FE-Penn Power | Refrigeration Commissioning | Non-commissioned refrigeration system | Misc. | Refrigeration | New | building | 10,436 | 9.5% | 0.10 | 3 | \$3,556 | 85% | 0.0 |
| FE-Penn Power | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Misc. | Refrigeration | Existing | building | 3,578 | 30% | 0.3 | 4 | \$80 | 22% | 3.1 |
| FE-Penn Power | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Misc. | Refrigeration | Existing | building | 5,963 | 6.2% | 0.06 | 4 | \$117 | 22% | 0.6 |
| FE-Penn Power | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Misc. | Refrigeration | New | building | 3,578 | 30% | 0.3 | 4 | \$80 | 22% | 3.1 |
| FE-Penn Power | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Misc. | Refrigeration | New | building | 5,963 | 6.2% | 0.06 | 4 | \$117 | 22% | 0.6 |
| FE-Penn Power | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Misc. | Refrigeration | Existing | building | 3,578 | 5.8% | 0.06 | 11 | \$119 | 79% | 0.9 |
| FE-Penn Power | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Misc. | Refrigeration | New | building | 3,578 | 5.8% | 0.06 | 11 | \$119 | 79% | 0.9 |
| FE-Penn Power | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Misc. | Refrigeration | Existing | building | 5,963 | 4.5% | 0.05 | 11 | \$119 | 79% | 1.0 |
| FE-Penn Power | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Misc. | Refrigeration | New | building | 5,963 | 4.5% | 0.05 | 11 | \$119 | 79% | 1.0 |
| FE-Penn Power | Vertical Night Covers | Display cases w/out night covers-High Temperature | Misc. | Refrigeration | Existing | building | 895 | 0.6% | 0.01 | 5 | \$50 | 9% | 0.1 |
| FE-Penn Power | Vertical Night Covers | Display cases w/out night covers-High Temperature | Misc. | Refrigeration | New | building | 895 | 0.6% | 0.01 | 5 | \$50 | 9% | 0.1 |
| FE-Penn Power | VSD Controlled Compressor | Compressor w/out VSD | Misc. | Refrigeration | Early | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |
| FE-Penn Power | VSD Controlled Compressor | Compressor w/out VSD | Misc. | Refrigeration | New | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |
| FE-Penn Power | VSD Controlled Compressor | Compressor w/out VSD | Misc. | Refrigeration | ROB | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |
| FE-Penn Power | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Misc. | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$269 | 35% | 0.7 |
| FE-Penn Power | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Misc. | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$269 | 35% | 0.7 |
| FE-Penn Power | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Misc. | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 2.4 |
| FE-Penn Power | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Misc. | Refrigeration | New | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 2.3 |
| FE-Penn Power | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Misc. | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 2.4 |
| FE-Penn Power | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Misc. | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 2.3 |
| FE-Penn Power | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 35% | 1.9 |
| FE-Penn Power | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 35% | 1.8 |
| FE-Penn Power | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 3.9 |
| FE-Penn Power | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 3.7 |
| FE-Penn Power | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 3.9 |
| FE-Penn Power | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 3.7 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Misc. | Space Heating | Existing | building | 2,460 | 7.1% | 0.07 | 6 | \$12,037 | 82% | 0.0 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Misc. | Space Heating | New | building | 2,460 | 7.1% | 0.07 | 6 | \$12,037 | 82% | 0.0 |
| FE-Penn Power | Adding window shade film | No shade film | Misc. | Space Heating | Existing | building | 2,460 | 1.3% | 0.4 | 10 | \$30 | 13% | 7.9 |
| FE-Penn Power | Adding window shade film | No shade film | Misc. | Space Heating | New | building | 2,460 | 1.3% | 0.4 | 10 | \$30 | 13% | 7.9 |
| FE-Penn Power | Adding window shade screen | No shade screen | Misc. | Space Heating | Existing | building | 2,460 | 1.1% | 0.01 | 10 | \$12 | 13% | 1.2 |
| FE-Penn Power | Adding window shade screen | No shade screen | Misc. | Space Heating | New | building | 2,460 | 1.1% | 0.01 | 10 | \$12 | 13% | 1.2 |
| FE-Penn Power | Automated control system | Manual Controls | Misc. | Space Heating | Existing | building | 2,460 | 17% | 0.2 | 15 | \$2,693 | 51% | 0.1 |
| FE-Penn Power | Automated control system | Manual Controls | Misc. | Space Heating | New | building | 2,460 | 17% | 0.2 | 15 | \$2,693 | 94% | 0.1 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Misc. | Space Heating | Existing | building | 2,460 | 4.9% | 0.05 | 15 | \$17,130 | 71% | 0.0 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Misc. | Space Heating | New | building | 2,460 | 1.7% | 0.02 | 15 | \$16,283 | 94% | 0.0 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Misc. | Space Heating | Existing | building | 2,460 | 1.4% | 0.04 | 15 | \$20 | 20% | 2.3 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Misc. | Space Heating | New | building | 2,460 | 1.4% | 0.04 | 15 | \$20 | 10% | 2.3 |
| FE-Penn Power | Efficient Unit Heating System | Existing Unit Heaters in PA | Misc. | Space Heating | Early | heater | 30,117 | 23% | 0.05 | 15 | \$3,289 | 83% | 0.8 |
| FE-Penn Power | Efficient Unit Heating System | Std. Unit Heater | Misc. | Space Heating | New | heater | 26,729 | 13% | 0.03 | 15 | \$1,991 | 83% | 0.7 |
| FE-Penn Power | Efficient Unit Heating System | Std. Unit Heater | Misc. | Space Heating | ROB | heater | 26,729 | 13% | 0.03 | 15 | \$1,991 | 83% | 0.7 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Misc. | Space Heating | Existing | building | 2,460 | 7.1% | 0.07 | 15 | \$10,910 | 25% | 0.0 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Misc. | Space Heating | New | building | 2,460 | 7.1% | 0.07 | 15 | \$10,910 | 35% | 0.0 |
| FE-Penn Power | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Misc. | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 0.8 |
| FE-Penn Power | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Misc. | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 0.8 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Misc. | Space Heating | Existing | building | 2,460 | 2.2% | 0.02 | 10 | \$7,735 | 81% | 0.0 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Misc. | Space Heating | New | building | 2,460 | 2.2% | 0.02 | 10 | \$7,735 | 81% | 0.0 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Misc. | Space Heating | Existing | building | 2,460 | 3.6% | 0.04 | 11 | \$286 | 49% | 0.2 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Misc. | Space Heating | New | building | 2,460 | 3.1% | 0.03 | 11 | \$146 | 49% | 0.3 |
| FE-Penn Power | Re-Commissioning (Existing Construction) | No Re-Commissioning | Misc. | Space Heating | Existing | building | 2,460 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Misc. | Space Heating | Existing | building | 2,460 | 14% | 0.1 | 15 | \$5,133 | 26% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|--|---|---------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Misc. | Space Heating | New | building | 2,460 | 0.4% | 0.00 | 15 | \$3,937 | 94% | 0.0 |
| FE-Penn Power | Green LED Traffic Light | Green Incandescent Traffic Light | Misc. | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 0% | 1.0 |
| FE-Penn Power | Green LED Traffic Light | Green Incandescent Traffic Light | Misc. | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| FE-Penn Power | Green LED Traffic Light | Green Incandescent Traffic Light | Misc. | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| FE-Penn Power | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Misc. | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 0% | 2.6 |
| FE-Penn Power | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Misc. | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-Penn Power | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Misc. | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-Penn Power | Induction Street Lighting | One 100W HPS Street Light Fixture | Misc. | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 0% | 0.2 |
| FE-Penn Power | Induction Street Lighting | One 100W HPS Street Light Fixture | Misc. | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.4 |
| FE-Penn Power | Induction Street Lighting | One 100W HPS Street Light Fixture | Misc. | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.4 |
| FE-Penn Power | LED Street Lighting | One 100W HPS Street Light | Misc. | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 0% | 0.2 |
| FE-Penn Power | LED Street Lighting | One 100W HPS Street Light | Misc. | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-Penn Power | LED Street Lighting | One 100W HPS Street Light | Misc. | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-Penn Power | Red LED Traffic Light | One Red Incandescent Traffic Light | Misc. | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 0% | 1.4 |
| FE-Penn Power | Red LED Traffic Light | One Red Incandescent Traffic Light | Misc. | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.2 |
| FE-Penn Power | Red LED Traffic Light | One Red Incandescent Traffic Light | Misc. | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.2 |
| FE-Penn Power | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Misc. | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 0% | 0.1 |
| FE-Penn Power | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Misc. | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-Penn Power | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Misc. | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-Penn Power | Demand controlled Circulating Systems | Constant circulation system | Misc. | Water Heating | Existing | building | 1,399 | 20% | 0.2 | 15 | \$254 | 59% | 1.1 |
| FE-Penn Power | Demand controlled Circulating Systems | Constant circulation system | Misc. | Water Heating | New | building | 1,399 | 20% | 0.2 | 15 | \$254 | 59% | 1.1 |
| FE-Penn Power | Drainwater Heat Recovery Water Heater | No heat recovery | Misc. | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.5 |
| FE-Penn Power | Drainwater Heat Recovery Water Heater | No heat recovery | Misc. | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.5 |
| FE-Penn Power | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Misc. | Water Heating | Existing | building | 1,399 | 5.9% | 0.06 | 12 | \$14 | 85% | 5.0 |
| FE-Penn Power | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Misc. | Water Heating | New | building | 1,399 | 5.9% | 0.06 | 12 | \$4.0 | 85% | 17.6 |
| FE-Penn Power | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Misc. | Water Heating | Early | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 2.5 |
| FE-Penn Power | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Misc. | Water Heating | Early | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 2.5 |
| FE-Penn Power | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Misc. | Water Heating | New | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 2.5 |
| FE-Penn Power | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Misc. | Water Heating | New | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 2.5 |
| FE-Penn Power | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Misc. | Water Heating | ROB | water heater | 10,350 | 65% | 1.2 | 10 | \$1,187 | 68% | 2.4 |
| FE-Penn Power | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Misc. | Water Heating | ROB | water heater | 10,350 | 65% | 1.2 | 10 | \$1,187 | 68% | 2.4 |
| FE-Penn Power | Heat Recovery Unit | Base Water Heating | Misc. | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.3 |
| FE-Penn Power | Heat Recovery Unit | Base Water Heating | Misc. | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.3 |
| FE-Penn Power | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Misc. | Water Heating | Early | water heater | 3,246 | 5.9% | 0.03 | 15 | \$307 | 79% | 0.4 |
| FE-Penn Power | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Misc. | Water Heating | Early | water heater | 3,246 | 5.9% | 0.03 | 15 | \$307 | 79% | 0.4 |
| FE-Penn Power | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Misc. | Water Heating | New | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.6 |
| FE-Penn Power | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Misc. | Water Heating | New | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.6 |
| FE-Penn Power | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Misc. | Water Heating | ROB | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.6 |
| FE-Penn Power | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Misc. | Water Heating | ROB | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.6 |
| FE-Penn Power | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Misc. | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$466 | 81% | 32.0 |
| FE-Penn Power | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Misc. | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 16.7 |
| FE-Penn Power | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Misc. | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 16.7 |
| FE-Penn Power | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Misc. | Water Heating | Existing | building | 1,399 | 2.7% | 0.03 | 13 | \$5.4 | 68% | 6.3 |
| FE-Penn Power | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Misc. | Water Heating | New | building | 1,399 | 2.7% | 0.03 | 13 | \$5.4 | 0% | 6.3 |
| FE-Penn Power | Hot Water Circulation Pump Time-Clock | Constant circulation system | Misc. | Water Heating | Existing | building | 1,399 | 5.3% | 0.05 | 10 | \$5.7 | 72% | 10.0 |
| FE-Penn Power | Hot Water Circulation Pump Time-Clock | Constant circulation system | Misc. | Water Heating | New | building | 1,399 | 5.3% | 0.05 | 10 | \$5.7 | 72% | 10.0 |
| FE-Penn Power | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Misc. | Water Heating | Existing | building | 1,286 | 2.9% | 0.03 | 7 | \$22 | 78% | 1.1 |
| FE-Penn Power | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Misc. | Water Heating | New | building | 1,399 | 0.8% | 0.01 | 7 | \$0.5 | 78% | 13.4 |
| FE-Penn Power | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Misc. | Water Heating | Existing | building | 1,399 | 13% | 0.1 | 5 | \$300 | 0% | 0.3 |
| FE-Penn Power | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Misc. | Water Heating | New | building | 1,399 | 9.3% | 0.09 | 5 | \$194 | 0% | 0.3 |
| FE-Penn Power | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Misc. | Water Heating | Existing | building | 1,399 | 6.5% | 0.07 | 9 | \$25 | 2% | 2.6 |
| FE-Penn Power | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Misc. | Water Heating | New | building | 1,399 | 6.5% | 0.07 | 9 | \$6.0 | 2% | 10.8 |
| FE-Penn Power | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Misc. | Water Heating | Early | water heater | 10,645 | 52% | 0.4 | 15 | \$6,222 | 32% | 0.4 |
| FE-Penn Power | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Misc. | Water Heating | New | water heater | 10,350 | 51% | 0.4 | 15 | \$6,222 | 32% | 0.4 |
| FE-Penn Power | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Misc. | Water Heating | ROB | water heater | 10,350 | 51% | 0.4 | 15 | \$6,222 | 32% | 0.4 |
| FE-Penn Power | Ultrasonic Faucet Control | Manual Faucet Control | Misc. | Water Heating | Existing | building | 1,399 | 3.0% | 0.03 | 10 | \$242 | 77% | 0.1 |
| FE-Penn Power | Ultrasonic Faucet Control | Manual Faucet Control | Misc. | Water Heating | New | building | 1,399 | 3.0% | 0.03 | 10 | \$242 | 77% | 0.1 |
| FE-Penn Power | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Misc. | Water Heating | Existing | building | 1,399 | 2.2% | 0.02 | 4 | \$28 | 83% | 0.4 |
| FE-Penn Power | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Misc. | Water Heating | New | building | 1,399 | 2.3% | 0.02 | 4 | \$28 | 83% | 0.4 |
| FE-Penn Power | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Office | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 0.9 |
| FE-Penn Power | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Office | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 0.9 |
| FE-Penn Power | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Office | Cooking | Early | steamer | 51 | 46% | 0.00 | 12 | \$5,053 | 81% | 0.0 |
| FE-Penn Power | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Office | Cooking | New | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-Penn Power | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Office | Cooking | ROB | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-Penn Power | Electric combination oven (Energy Star) | Standard Oven | Office | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.5 |
| FE-Penn Power | Electric combination oven (Energy Star) | Standard Oven | Office | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.5 |
| FE-Penn Power | Electric Convection Oven | Conventional convection oven w/ 65% efficiency | Office | Cooking | Early | oven | 8,641 | 37% | 0.6 | 12 | \$4,119 | 81% | 0.4 |
| FE-Penn Power | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Office | Cooking | New | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.6 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|--|--|---------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Office | Cooking | ROB | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.6 |
| FE-Penn Power | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Office | Cooking | Early | fryer | 6,105 | 23% | 0.3 | 12 | \$9,241 | 86% | 0.1 |
| FE-Penn Power | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Office | Cooking | New | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| FE-Penn Power | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Office | Cooking | ROB | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| FE-Penn Power | High Efficiency Griddle (ENERGY STAR) | Efficiency code minimum griddle (70% eff) | Office | Cooking | Early | griddle | 11,317 | 65% | 1.4 | 12 | \$4,977 | 86% | 0.7 |
| FE-Penn Power | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Office | Cooking | New | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.0 |
| FE-Penn Power | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Office | Cooking | ROB | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.0 |
| FE-Penn Power | High Efficiency Induction Cooking | Standard Cooking | Office | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-Penn Power | High Efficiency Induction Cooking | Standard Cooking | Office | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-Penn Power | Active chilled beam cooling | No Active Chilled beam cooling | Office | Cooling Central | New | building | 1,133 | 5.3% | 0.05 | 15 | \$296 | 72% | 0.2 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Office | Cooling Central | Existing | building | 1,193 | 7.0% | 0.07 | 6 | \$11,674 | 82% | 0.0 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Office | Cooling Central | New | building | 1,193 | 7.0% | 0.07 | 6 | \$11,674 | 82% | 0.0 |
| FE-Penn Power | Adding window shade film | No shade film | Office | Cooling Central | Existing | building | 1,193 | 1.3% | 0.4 | 10 | \$15 | 12% | 16.1 |
| FE-Penn Power | Adding window shade film | No shade film | Office | Cooling Central | New | building | 1,193 | 1.3% | 0.4 | 10 | \$15 | 13% | 16.1 |
| FE-Penn Power | Adding window shade screen | No shade screen | Office | Cooling Central | Existing | building | 1,193 | 1.1% | 0.01 | 10 | \$5.6 | 13% | 1.8 |
| FE-Penn Power | Adding window shade screen | No shade screen | Office | Cooling Central | New | building | 1,193 | 1.0% | 0.01 | 10 | \$5.6 | 13% | 1.8 |
| FE-Penn Power | Automated control system | Manual Controls | Office | Cooling Central | Existing | building | 1,193 | 17% | 0.2 | 15 | \$1,306 | 51% | 0.2 |
| FE-Penn Power | Automated control system | Manual Controls | Office | Cooling Central | New | building | 1,193 | 17% | 0.2 | 15 | \$1,306 | 94% | 0.2 |
| FE-Penn Power | Ceiling Insulations (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Office | Cooling Central | Existing | building | 1,193 | 4.9% | 0.05 | 15 | \$16,437 | 71% | 0.0 |
| FE-Penn Power | Ceiling Insulations (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Office | Cooling Central | New | building | 1,193 | 2.3% | 0.02 | 15 | \$15,624 | 94% | 0.0 |
| FE-Penn Power | Chilled Water Reset, Optimizer System for Chiller(s) | No Chilled Water Reset | Office | Cooling Central | Existing | building | 1,193 | 3.7% | 0.04 | 10 | \$5.4 | 69% | 6.9 |
| FE-Penn Power | Chiller Tune Up Diagnostics | No Chiller Tune Up | Office | Cooling Central | Existing | building | 1,193 | 2.3% | 0.02 | 10 | \$1.2 | 59% | 19.2 |
| FE-Penn Power | Chiller Tuneup/Diagnostics | No tuneup | Office | Cooling Central | Existing | building | 1,193 | 8.0% | 0.08 | 10 | \$3,046 | 59% | 0.0 |
| FE-Penn Power | Chiller Tuneup/Diagnostics | No tuneup | Office | Cooling Central | New | building | 1,193 | 8.0% | 0.08 | 10 | \$3,046 | 59% | 0.0 |
| FE-Penn Power | Cooling Tower Optimization | No Cooling Tower Optimization | Office | Cooling Central | Existing | building | 1,193 | 15% | 0.1 | 10 | \$16 | 73% | 9.1 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Office | Cooling Central | Existing | building | 1,193 | 1.4% | 0.04 | 15 | \$9.5 | 20% | 4.0 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Office | Cooling Central | New | building | 1,193 | 1.4% | 0.04 | 15 | \$9.5 | 10% | 4.0 |
| FE-Penn Power | Facility Commissioning | No Facility Commissioning | Office | Cooling Central | New | building | 1,193 | 16% | 0.2 | 10 | \$44,863 | 89% | 0.0 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Office | Cooling Central | Existing | building | 1,193 | 7.0% | 0.07 | 15 | \$5,291 | 25% | 0.0 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Office | Cooling Central | New | building | 1,193 | 7.0% | 0.07 | 15 | \$5,291 | 35% | 0.0 |
| FE-Penn Power | Hi Eff HVAC System Design | No HVAC Design | Office | Cooling Central | New | building | 1,193 | 0.8% | 0.01 | 10 | \$1,017 | 51% | 0.0 |
| FE-Penn Power | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Office | Cooling Central | Early | ton | 4,330 | 24% | 0.4 | 15 | \$108,550 | 88% | 0.0 |
| FE-Penn Power | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Office | Cooling Central | New | ton | 3,540 | 6.7% | 0.09 | 15 | \$12,927 | 88% | 0.0 |
| FE-Penn Power | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Office | Cooling Central | ROB | ton | 3,540 | 6.7% | 0.09 | 15 | \$12,927 | 88% | 0.0 |
| FE-Penn Power | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Office | Cooling Central | Early | ton | 6,471 | 23% | 0.6 | 15 | \$140,105 | 88% | 0.0 |
| FE-Penn Power | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Office | Cooling Central | New | ton | 5,206 | 4.8% | 0.09 | 15 | \$9,336 | 88% | 0.0 |
| FE-Penn Power | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Office | Cooling Central | ROB | ton | 5,206 | 4.8% | 0.09 | 15 | \$9,336 | 88% | 0.0 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Office | Cooling Central | Early | ton | 52,971 | 26% | 5.0 | 15 | \$105,354 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Office | Cooling Central | New | ton | 46,153 | 15% | 2.5 | 15 | \$30,530 | 88% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Office | Cooling Central | ROB | ton | 46,153 | 15% | 2.5 | 15 | \$30,530 | 88% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Office | Cooling Central | Early | ton | 79,336 | 23% | 6.6 | 15 | \$154,107 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Office | Cooling Central | New | ton | 72,880 | 16% | 4.3 | 15 | \$27,646 | 88% | 0.3 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Office | Cooling Central | ROB | ton | 79,336 | 23% | 6.6 | 15 | \$27,646 | 88% | 0.5 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Office | Cooling Central | Early | ton | 131,762 | 23% | 10.9 | 15 | \$302,924 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Office | Cooling Central | New | ton | 119,254 | 14% | 6.3 | 15 | \$115,432 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Office | Cooling Central | ROB | ton | 131,762 | 23% | 10.9 | 15 | \$115,432 | 88% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Office | Cooling Central | Early | ton | 158,114 | 23% | 13.1 | 15 | \$350,154 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Office | Cooling Central | New | ton | 143,105 | 14% | 7.6 | 15 | \$120,406 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Office | Cooling Central | ROB | ton | 158,114 | 23% | 13.1 | 15 | \$120,406 | 88% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Office | Cooling Central | Early | ton | 35,047 | 29% | 3.8 | 15 | \$83,632 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Office | Cooling Central | New | ton | 27,214 | 8.9% | 0.9 | 15 | \$40,211 | 88% | 0.0 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Office | Cooling Central | ROB | ton | 35,047 | 29% | 3.8 | 15 | \$40,211 | 88% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Office | Cooling Central | Early | ton | 60,220 | 35% | 7.7 | 15 | \$132,173 | 88% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|--|---|---------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Office | Cooling Central | New | ton | 44,914 | 13% | 2.1 | 15 | \$39,556 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Office | Cooling Central | ROB | ton | 44,914 | 13% | 2.1 | 15 | \$39,556 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Office | Cooling Central | Early | ton | 100,542 | 39% | 14.4 | 15 | \$187,029 | 88% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Office | Cooling Central | New | ton | 71,685 | 15% | 3.8 | 15 | \$33,554 | 88% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Office | Cooling Central | ROB | ton | 100,542 | 39% | 14.4 | 15 | \$33,554 | 88% | 0.8 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Office | Cooling Central | Early | ton | 17,593 | 30% | 1.9 | 15 | \$32,398 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Office | Cooling Central | New | ton | 13,939 | 11% | 0.6 | 15 | \$7,188 | 88% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Office | Cooling Central | ROB | ton | 17,593 | 30% | 1.9 | 15 | \$7,188 | 88% | 0.5 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Office | Cooling Central | Existing | building | 1,193 | 2.8% | 0.03 | 10 | \$5,350 | 81% | 0.0 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Office | Cooling Central | New | building | 1,193 | 2.8% | 0.03 | 10 | \$5,350 | 81% | 0.0 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Office | Cooling Central | Existing | building | 1,193 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.1 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Office | Cooling Central | New | building | 1,193 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.1 |
| FE-Penn Power | Re-Commissioning (Existing Construction) | No Re-Commissioning | Office | Cooling Central | Existing | building | 1,193 | 16% | 0.2 | 5 | \$7,777 | 86% | 0.0 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Office | Cooling Central | Existing | building | 1,193 | 15% | 0.2 | 15 | \$5,028 | 26% | 0.0 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Office | Cooling Central | New | building | 1,193 | 0.5% | 0.01 | 15 | \$3,857 | 94% | 0.0 |
| FE-Penn Power | <65k BTU/hr 14 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Office | Cooling Unitary | Early | ton | 2,203 | 16% | 0.2 | 15 | \$1,545 | 29% | 0.2 |
| FE-Penn Power | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Office | Cooling Unitary | New | ton | 1,995 | 7.1% | 0.07 | 15 | \$339 | 29% | 0.3 |
| FE-Penn Power | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Office | Cooling Unitary | ROB | ton | 1,995 | 7.1% | 0.07 | 15 | \$339 | 29% | 0.3 |
| FE-Penn Power | <65k BTU/hr 15 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Office | Cooling Unitary | Early | ton | 2,203 | 22% | 0.2 | 15 | \$1,821 | 30% | 0.2 |
| FE-Penn Power | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Office | Cooling Unitary | New | ton | 1,995 | 13% | 0.1 | 15 | \$714 | 30% | 0.3 |
| FE-Penn Power | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Office | Cooling Unitary | ROB | ton | 1,995 | 13% | 0.1 | 15 | \$714 | 30% | 0.3 |
| FE-Penn Power | <65k BTU/hr 16 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Office | Cooling Unitary | Early | ton | 2,203 | 26% | 0.3 | 15 | \$2,098 | 31% | 0.2 |
| FE-Penn Power | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Office | Cooling Unitary | New | ton | 1,995 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.3 |
| FE-Penn Power | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Office | Cooling Unitary | ROB | ton | 1,995 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.3 |
| FE-Penn Power | >760k min 10.2 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Office | Cooling Unitary | Early | ton | 55,737 | 3.7% | 1.0 | 15 | \$68,066 | 56% | 0.0 |
| FE-Penn Power | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Office | Cooling Unitary | New | ton | 56,452 | 4.9% | 1.3 | 15 | \$6,231 | 56% | 0.4 |
| FE-Penn Power | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Office | Cooling Unitary | ROB | ton | 56,452 | 4.9% | 1.3 | 15 | \$6,231 | 56% | 0.4 |
| FE-Penn Power | 135-240k min 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Office | Cooling Unitary | Early | ton | 13,714 | 18% | 1.2 | 15 | \$18,135 | 79% | 0.1 |
| FE-Penn Power | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Office | Cooling Unitary | New | ton | 12,475 | 10.0% | 0.6 | 15 | \$1,948 | 79% | 0.5 |
| FE-Penn Power | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Office | Cooling Unitary | ROB | ton | 12,475 | 10.0% | 0.6 | 15 | \$1,948 | 79% | 0.5 |
| FE-Penn Power | 240k-760k min 11 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Office | Cooling Unitary | Early | ton | 36,669 | 9.0% | 1.6 | 15 | \$44,809 | 66% | 0.1 |
| FE-Penn Power | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Office | Cooling Unitary | New | ton | 36,760 | 9.3% | 1.6 | 15 | \$4,813 | 66% | 0.6 |
| FE-Penn Power | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Office | Cooling Unitary | ROB | ton | 36,760 | 9.3% | 1.6 | 15 | \$4,813 | 66% | 0.6 |
| FE-Penn Power | 65k-135k BTU/hr 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Office | Cooling Unitary | Early | ton | 8,084 | 17% | 0.7 | 15 | \$10,946 | 86% | 0.1 |
| FE-Penn Power | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Office | Cooling Unitary | New | ton | 7,205 | 6.7% | 0.2 | 15 | \$1,392 | 86% | 0.3 |
| FE-Penn Power | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Office | Cooling Unitary | ROB | ton | 7,205 | 6.7% | 0.2 | 15 | \$1,392 | 86% | 0.3 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Office | Cooling Unitary | Existing | building | 19,919 | 7.0% | 0.07 | 6 | \$11,674 | 82% | 0.0 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Office | Cooling Unitary | New | building | 19,919 | 7.0% | 0.07 | 6 | \$11,674 | 82% | 0.0 |
| FE-Penn Power | Adding window shade film | No shade film | Office | Cooling Unitary | Existing | building | 19,919 | 1.3% | 0.4 | 10 | \$242 | 12% | 1.3 |
| FE-Penn Power | Adding window shade film | No shade film | Office | Cooling Unitary | New | building | 19,919 | 1.3% | 0.4 | 10 | \$242 | 13% | 1.3 |
| FE-Penn Power | Adding window shade screen | No shade screen | Office | Cooling Unitary | Existing | building | 19,919 | 1.1% | 0.01 | 10 | \$94 | 12% | 0.8 |
| FE-Penn Power | Adding window shade screen | No shade screen | Office | Cooling Unitary | New | building | 19,919 | 1.1% | 0.01 | 10 | \$94 | 13% | 0.8 |
| FE-Penn Power | Automated control system | Manual Controls | Office | Cooling Unitary | Existing | building | 19,919 | 17% | 0.2 | 15 | \$21,807 | 51% | 0.1 |
| FE-Penn Power | Automated control system | Manual Controls | Office | Cooling Unitary | New | building | 19,919 | 17% | 0.2 | 15 | \$21,807 | 94% | 0.1 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Office | Cooling Unitary | Existing | building | 19,919 | 4.9% | 0.05 | 15 | \$16,437 | 71% | 0.0 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Office | Cooling Unitary | New | building | 19,919 | 2.3% | 0.02 | 15 | \$15,624 | 94% | 0.0 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Office | Cooling Unitary | Existing | building | 19,919 | 1.4% | 0.04 | 15 | \$158 | 20% | 1.0 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Office | Cooling Unitary | New | building | 19,919 | 1.4% | 0.04 | 15 | \$158 | 10% | 1.0 |
| FE-Penn Power | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Office | Cooling Unitary | Existing | building | 10,885 | 13% | 0.1 | 1 | \$104 | 73% | 0.8 |
| FE-Penn Power | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Office | Cooling Unitary | New | building | 10,885 | 13% | 0.1 | 1 | \$104 | 73% | 0.8 |
| FE-Penn Power | ECM Motors for split systems | Std Shaded Pole Motor | Office | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.4 |
| FE-Penn Power | ECM Motors for split systems | Std Shaded Pole Motor | Office | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.4 |
| FE-Penn Power | Facility Commissioning | No Facility Commissioning | Office | Cooling Unitary | New | building | 19,919 | 16% | 0.2 | 10 | \$591 | 89% | 1.9 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Office | Cooling Unitary | Existing | building | 19,919 | 7.1% | 0.07 | 15 | \$88,357 | 25% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|--|---|---------|-----------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Office | Cooling Unitary | New | building | 19,919 | 7.0% | 0.07 | 15 | \$88,357 | 35% | 0.0 |
| FE-Penn Power | Hi Eff HVAC System Design | No HVAC Design | Office | Cooling Unitary | New | building | 19,919 | 0.8% | 0.01 | 10 | \$102 | 51% | 0.5 |
| FE-Penn Power | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Office | Cooling Unitary | Existing | building | 19,919 | 5.0% | 0.05 | 5 | \$225 | 59% | 0.9 |
| FE-Penn Power | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Office | Cooling Unitary | Existing | building | 19,919 | 0.5% | 0.04 | 5 | \$225 | 51% | 0.2 |
| FE-Penn Power | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Office | Cooling Unitary | New | building | 19,919 | 0.5% | 0.04 | 5 | \$135 | 51% | 0.2 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Office | Cooling Unitary | Existing | building | 19,919 | 2.8% | 0.03 | 10 | \$5,750 | 86% | 0.0 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Office | Cooling Unitary | New | building | 19,919 | 2.8% | 0.03 | 10 | \$5,750 | 86% | 0.0 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) | Office | Cooling Unitary | Existing | building | 19,919 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.5 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Office | Cooling Unitary | New | building | 19,919 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.9 |
| FE-Penn Power | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Office | Cooling Unitary | Early | unit | 654 | 19% | 0.05 | 15 | \$849 | 85% | 0.1 |
| FE-Penn Power | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Office | Cooling Unitary | New | unit | 660 | 20% | 0.05 | 15 | \$356 | 85% | 0.3 |
| FE-Penn Power | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Office | Cooling Unitary | ROB | unit | 660 | 20% | 0.05 | 15 | \$356 | 85% | 0.3 |
| FE-Penn Power | Re-Commissioning (Existing Construction) | No Re-Commissioning | Office | Cooling Unitary | Existing | building | 19,919 | 16% | 0.2 | 5 | \$7,777 | 86% | 0.1 |
| FE-Penn Power | Room AC (w/ louvered sides) | Existing efficiency Room AC in Pennsylvania (2000 Federal Standards) | Office | Cooling Unitary | Early | ton | 1,040 | 13% | 0.05 | 9 | \$348 | 82% | 0.2 |
| FE-Penn Power | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Office | Cooling Unitary | New | ton | 943 | 4.5% | 0.02 | 9 | \$17 | 82% | 1.3 |
| FE-Penn Power | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Office | Cooling Unitary | ROB | ton | 943 | 4.5% | 0.02 | 9 | \$17 | 82% | 1.3 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Office | Cooling Unitary | Existing | building | 19,919 | 15% | 0.2 | 15 | \$5,028 | 26% | 0.3 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Office | Cooling Unitary | New | building | 19,919 | 0.5% | 0.01 | 15 | \$3,857 | 94% | 0.0 |
| FE-Penn Power | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Office | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 0.9 |
| FE-Penn Power | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Office | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.1 |
| FE-Penn Power | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Office | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.1 |
| FE-Penn Power | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Office | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 0% | 0.1 |
| FE-Penn Power | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Office | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-Penn Power | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Office | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-Penn Power | LED exterior lighting | 250 Watt Incandescent | Office | Ext. Lighting | ROB | measure | 262 | 83% | 0.05 | 15 | \$104 | 89% | 1.3 |
| FE-Penn Power | LED exterior lighting | 250 Watt Incandescent | Office | Ext. Lighting | ROB | measure | 277 | 83% | 0.05 | 15 | \$104 | 89% | 1.3 |
| FE-Penn Power | LED exterior lighting | 250 Watt Incandescent | Office | Ext. Lighting | ROB | measure | 277 | 83% | 0.05 | 15 | \$104 | 89% | 1.3 |
| FE-Penn Power | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Office | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 53% | 0.2 |
| FE-Penn Power | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Office | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 53% | 0.2 |
| FE-Penn Power | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Office | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 53% | 2.3 |
| FE-Penn Power | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Office | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 53% | 1.7 |
| FE-Penn Power | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Office | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 53% | 2.3 |
| FE-Penn Power | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Office | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 53% | 1.7 |
| FE-Penn Power | Photocell Controls (Outdoor) | Lighting w/ No Controls | Office | Ext. Lighting | Existing | building | 380 | 28% | 0.3 | 8 | \$3,091 | 88% | 0.1 |
| FE-Penn Power | Photocell Controls (Outdoor) | Lighting w/ No Controls | Office | Ext. Lighting | New | building | 380 | 28% | 0.3 | 8 | \$3,091 | 0% | 0.1 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Office | Heat Pump | Existing | building | 2,240 | 6.9% | 0.07 | 6 | \$11,674 | 82% | 0.0 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Office | Heat Pump | New | building | 2,240 | 6.9% | 0.07 | 6 | \$11,674 | 82% | 0.0 |
| FE-Penn Power | Adding window shade film | No shade film | Office | Heat Pump | Existing | building | 2,240 | 3.9% | 0.4 | 10 | \$27 | 12% | 9.3 |
| FE-Penn Power | Adding window shade film | No shade film | Office | Heat Pump | New | building | 2,240 | 3.9% | 0.4 | 10 | \$27 | 12% | 9.3 |
| FE-Penn Power | Adding window shade screen | No shade screen | Office | Heat Pump | Existing | building | 2,240 | 0.3% | 0.01 | 10 | \$3.5 | 12% | 2.4 |
| FE-Penn Power | Adding window shade screen | No shade screen | Office | Heat Pump | New | building | 2,240 | 0.3% | 0.01 | 10 | \$3.5 | 12% | 2.4 |
| FE-Penn Power | Automated control system | Manual Controls | Office | Heat Pump | Existing | building | 2,240 | 17% | 0.2 | 15 | \$2,452 | 51% | 0.1 |
| FE-Penn Power | Automated control system | Manual Controls | Office | Heat Pump | New | building | 2,240 | 17% | 0.2 | 15 | \$2,452 | 94% | 0.1 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Office | Heat Pump | Existing | building | 2,240 | 4.9% | 0.05 | 15 | \$16,437 | 71% | 0.0 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Office | Heat Pump | New | building | 2,240 | 2.3% | 0.02 | 15 | \$15,624 | 94% | 0.0 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Office | Heat Pump | Existing | building | 2,240 | 4.0% | 0.04 | 15 | \$18 | 12% | 3.7 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Office | Heat Pump | New | building | 2,240 | 4.0% | 0.04 | 15 | \$18 | 6% | 3.7 |
| FE-Penn Power | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Office | Heat Pump | Early | heat pump | 645 | 15% | 0.01 | 15 | \$4,070 | 83% | 0.0 |
| FE-Penn Power | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Office | Heat Pump | New | heat pump | 589 | 7.3% | 0.00 | 15 | \$1,097 | 83% | 0.0 |
| FE-Penn Power | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Office | Heat Pump | ROB | heat pump | 589 | 7.3% | 0.00 | 15 | \$1,097 | 83% | 0.0 |
| FE-Penn Power | Facility Commissioning | No Facility Commissioning | Office | Heat Pump | New | building | 2,240 | 16% | 0.2 | 10 | \$44,863 | 89% | 0.0 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Office | Heat Pump | Existing | building | 2,240 | 7.0% | 0.07 | 15 | \$9,935 | 25% | 0.0 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Office | Heat Pump | New | building | 2,240 | 7.0% | 0.07 | 15 | \$9,935 | 35% | 0.0 |
| FE-Penn Power | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Office | Heat Pump | Early | heat pump | 10,857 | 26% | 0.2 | 15 | \$91,117 | 19% | 0.0 |
| FE-Penn Power | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Office | Heat Pump | New | heat pump | 10,106 | 20% | 0.2 | 15 | \$33,927 | 19% | 0.0 |
| FE-Penn Power | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Office | Heat Pump | ROB | heat pump | 10,106 | 20% | 0.2 | 15 | \$33,927 | 19% | 0.0 |
| FE-Penn Power | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Office | Heat Pump | Early | heat pump | 10,857 | 26% | 0.2 | 15 | \$58,356 | 19% | 0.0 |
| FE-Penn Power | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Office | Heat Pump | New | heat pump | 10,106 | 20% | 0.2 | 15 | \$1,167 | 19% | 0.8 |
| FE-Penn Power | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Office | Heat Pump | ROB | heat pump | 10,106 | 20% | 0.2 | 15 | \$1,167 | 19% | 0.8 |
| FE-Penn Power | Hi Eff HVAC System Design | No HVAC Design | Office | Heat Pump | New | building | 2,240 | 0.7% | 0.01 | 10 | \$1,017 | 51% | 0.0 |
| FE-Penn Power | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Office | Heat Pump | Early | heat pump | 2,612 | 21% | 0.05 | 12 | \$4,298 | 81% | 0.1 |
| FE-Penn Power | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Office | Heat Pump | Early | heat pump | 2,612 | 22% | 0.05 | 12 | \$5,883 | 81% | 0.0 |
| FE-Penn Power | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Office | Heat Pump | New | heat pump | 2,380 | 13% | 0.03 | 12 | \$852 | 81% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|--|--|---------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Office | Heat Pump | New | heat pump | 2,380 | 14% | 0.03 | 12 | \$2,437 | 81% | 0.1 |
| FE-Penn Power | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Office | Heat Pump | ROB | heat pump | 2,380 | 13% | 0.03 | 12 | \$852 | 81% | 0.1 |
| FE-Penn Power | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Office | Heat Pump | ROB | heat pump | 2,380 | 14% | 0.03 | 12 | \$2,437 | 81% | 0.1 |
| FE-Penn Power | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Office | Heat Pump | Existing | building | 2,240 | 5.0% | 0.01 | 5 | \$90 | 51% | 0.3 |
| FE-Penn Power | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Office | Heat Pump | New | building | 2,240 | 5.0% | 0.01 | 5 | \$90 | 51% | 0.3 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Office | Heat Pump | Existing | building | 2,240 | 2.8% | 0.03 | 10 | \$5,119 | 81% | 0.0 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Office | Heat Pump | New | building | 2,240 | 2.8% | 0.03 | 10 | \$5,119 | 81% | 0.0 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Office | Heat Pump | Existing | building | 2,240 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.1 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Office | Heat Pump | New | building | 2,240 | 2.1% | 0.02 | 11 | \$146 | 49% | 0.2 |
| FE-Penn Power | Re-Commissioning (Existing Construction) | No Re-Commissioning | Office | Heat Pump | Existing | building | 2,240 | 16% | 0.2 | 5 | \$7,777 | 86% | 0.0 |
| FE-Penn Power | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Office | Heat Pump | New | measure | 1,496,631 | 2.0% | 3.4 | 13 | \$188,409 | 43% | 0.1 |
| FE-Penn Power | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Office | Heat Pump | ROB | measure | 1,496,631 | 2.0% | 3.4 | 13 | \$188,409 | 43% | 0.1 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Office | Heat Pump | Existing | building | 2,240 | 15% | 0.2 | 15 | \$5,028 | 26% | 0.1 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Office | Heat Pump | New | building | 2,240 | 0.5% | 0.01 | 15 | \$3,857 | 94% | 0.0 |
| FE-Penn Power | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Office | Heat Pump | Early | heat pump | 3,807 | 20% | 0.07 | 15 | \$35,347 | 28% | 0.0 |
| FE-Penn Power | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Office | Heat Pump | New | heat pump | 3,380 | 10% | 0.03 | 15 | \$15,739 | 28% | 0.0 |
| FE-Penn Power | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Office | Heat Pump | ROB | heat pump | 3,380 | 10% | 0.03 | 15 | \$15,739 | 28% | 0.0 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Office | High Bay Lighting | Early | Fixture | 483 | 9.6% | 0.01 | 13 | \$850 | 39% | 0.0 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Office | High Bay Lighting | Early | Fixture | 483 | 9.5% | 0.01 | 13 | \$850 | 28% | 0.0 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Office | High Bay Lighting | Early | Fixture | 745 | 41% | 0.08 | 13 | \$850 | 36% | 0.2 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Office | High Bay Lighting | New | Fixture | 367 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Office | High Bay Lighting | New | Fixture | 342 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Office | High Bay Lighting | New | Fixture | 566 | 41% | 0.06 | 13 | \$397 | 36% | 0.3 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Office | High Bay Lighting | ROB | Fixture | 483 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Office | High Bay Lighting | ROB | Fixture | 450 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Office | High Bay Lighting | ROB | Fixture | 745 | 41% | 0.08 | 13 | \$397 | 36% | 0.4 |
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Office | High Bay Lighting | Early | Fixture | 938 | 19% | 0.05 | 13 | \$851 | 38% | 0.1 |
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Office | High Bay Lighting | Early | Fixture | 950 | 20% | 0.05 | 13 | \$851 | 38% | 0.1 |
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | Early | Fixture | 2,762 | 73% | 0.5 | 13 | \$851 | 38% | 1.3 |
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Office | High Bay Lighting | New | Fixture | 713 | 19% | 0.03 | 13 | \$372 | 38% | 0.2 |
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | New | Fixture | 2,099 | 73% | 0.4 | 13 | \$383 | 38% | 2.3 |
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Office | High Bay Lighting | ROB | Fixture | 938 | 19% | 0.05 | 13 | \$372 | 38% | 0.3 |
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | ROB | Fixture | 2,762 | 73% | 0.5 | 13 | \$383 | 38% | 3.0 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Office | High Bay Lighting | Early | Fixture | 938 | 25% | 0.06 | 13 | \$554 | 29% | 0.2 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Office | High Bay Lighting | Early | Fixture | 920 | 23% | 0.05 | 13 | \$554 | 28% | 0.2 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | Early | Fixture | 2,762 | 74% | 0.5 | 13 | \$554 | 36% | 2.1 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Office | High Bay Lighting | New | Fixture | 713 | 25% | 0.04 | 13 | \$75 | 29% | 1.3 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | New | Fixture | 2,099 | 74% | 0.4 | 13 | \$86 | 36% | 10.3 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Office | High Bay Lighting | ROB | Fixture | 938 | 25% | 0.06 | 13 | \$75 | 29% | 1.8 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | ROB | Fixture | 2,762 | 74% | 0.5 | 13 | \$86 | 36% | 13.6 |
| FE-Penn Power | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Office | High Bay Lighting | Early | Fixture | 245 | 0.2% | 0.00 | 13 | \$835 | 38% | 0.0 |
| FE-Penn Power | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Office | High Bay Lighting | Early | Fixture | 527 | 54% | 0.07 | 13 | \$835 | 38% | 0.2 |
| FE-Penn Power | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Office | High Bay Lighting | New | Fixture | 400 | 54% | 0.05 | 13 | \$382 | 38% | 0.3 |
| FE-Penn Power | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Office | High Bay Lighting | ROB | Fixture | 527 | 54% | 0.07 | 13 | \$382 | 38% | 0.4 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Office | High Bay Lighting | Early | Fixture | 1,195 | 18% | 0.05 | 13 | \$487 | 25% | 0.3 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Office | High Bay Lighting | Early | Fixture | 1,249 | 22% | 0.07 | 13 | \$487 | 28% | 0.3 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | Early | Fixture | 2,762 | 65% | 0.4 | 13 | \$487 | 36% | 2.1 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Office | High Bay Lighting | New | Fixture | 908 | 18% | 0.04 | 13 | \$16 | 25% | 5.8 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | New | Fixture | 2,099 | 65% | 0.3 | 13 | \$18 | 36% | 41.7 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Office | High Bay Lighting | ROB | Fixture | 1,195 | 18% | 0.05 | 13 | \$16 | 25% | 7.6 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | ROB | Fixture | 2,762 | 65% | 0.4 | 13 | \$18 | 36% | 54.9 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Office | High Bay Lighting | Early | Fixture | 1,195 | 1.5% | 0.00 | 13 | \$557 | 19% | 0.0 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Office | High Bay Lighting | Early | Fixture | 1,230 | 4.3% | 0.01 | 13 | \$557 | 19% | 0.1 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | Early | Fixture | 2,762 | 57% | 0.4 | 13 | \$557 | 19% | 1.6 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Office | High Bay Lighting | New | Fixture | 908 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | New | Fixture | 2,099 | 57% | 0.3 | 13 | \$88 | 19% | 7.7 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Office | High Bay Lighting | ROB | Fixture | 1,195 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | ROB | Fixture | 2,762 | 57% | 0.4 | 13 | \$88 | 19% | 10.2 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Office | High Bay Lighting | Early | Fixture | 507 | 29% | 0.03 | 13 | \$492 | 71% | 0.2 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Office | High Bay Lighting | Early | Fixture | 424 | 15% | 0.01 | 13 | \$492 | 95% | 0.1 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Office | High Bay Lighting | Early | Fixture | 630 | 43% | 0.05 | 13 | \$492 | 95% | 0.3 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Office | High Bay Lighting | Early | Fixture | 584 | 38% | 0.04 | 13 | \$492 | 95% | 0.2 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Office | High Bay Lighting | New | Fixture | 322 | 15% | 0.01 | 13 | \$25 | 95% | 1.0 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Office | High Bay Lighting | New | Fixture | 479 | 43% | 0.04 | 13 | \$51 | 95% | 2.0 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Office | High Bay Lighting | ROB | Fixture | 424 | 15% | 0.01 | 13 | \$25 | 95% | 1.3 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Office | High Bay Lighting | ROB | Fixture | 630 | 43% | 0.05 | 13 | \$51 | 95% | 2.7 |
| FE-Penn Power | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Office | High Bay Lighting | Early | lamp | 86 | 16% | 0.00 | 12 | \$7.7 | 99% | 0.9 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|--|---------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Office | High Bay Lighting | New | lamp | 51 | 13% | 0.00 | 12 | \$1.6 | 91% | 2.1 |
| FE-Penn Power | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Office | High Bay Lighting | ROB | lamp | 82 | 13% | 0.00 | 12 | \$1.6 | 91% | 3.3 |
| FE-Penn Power | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Office | High Bay Lighting | Early | Fixture | 2,826 | 23% | 0.2 | 13 | \$613 | 5% | 0.6 |
| FE-Penn Power | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Office | High Bay Lighting | Early | Fixture | 2,220 | 1.6% | 0.01 | 13 | \$613 | 28% | 0.0 |
| FE-Penn Power | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Office | High Bay Lighting | Early | Fixture | 5,524 | 60% | 0.8 | 13 | \$613 | 18% | 3.1 |
| FE-Penn Power | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Office | High Bay Lighting | New | Fixture | 2,148 | 23% | 0.1 | 13 | \$96 | 5% | 2.9 |
| FE-Penn Power | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Office | High Bay Lighting | ROB | Fixture | 2,826 | 23% | 0.2 | 13 | \$96 | 5% | 3.8 |
| FE-Penn Power | Auto Off Time Switch | Lighting w/ No Controls | Office | High Bay Lighting | Existing | building | 443 | 24% | 0.2 | 8 | \$628 | 13% | 0.2 |
| FE-Penn Power | Auto Off Time Switch | Lighting w/ No Controls | Office | High Bay Lighting | New | building | 443 | 6.9% | 0.07 | 8 | \$628 | 0% | 0.1 |
| FE-Penn Power | Central Lighting Control System | Lighting w/ No Controls | Office | High Bay Lighting | Existing | building | 443 | 38% | 0.4 | 8 | \$628 | 13% | 0.4 |
| FE-Penn Power | Central Lighting Control System | Lighting w/ No Controls | Office | High Bay Lighting | New | building | 443 | 14% | 0.1 | 8 | \$628 | 13% | 0.1 |
| FE-Penn Power | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Office | High Bay Lighting | New | building | 443 | 10% | 0.1 | 15 | \$28,258 | 32% | 0.0 |
| FE-Penn Power | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Office | High Bay Lighting | New | building | 443 | 15% | 0.2 | 15 | \$70,645 | 32% | 0.0 |
| FE-Penn Power | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Office | High Bay Lighting | New | building | 443 | 30% | 0.3 | 15 | \$101,258 | 32% | 0.0 |
| FE-Penn Power | Indoor Daylight Sensors | Lighting w/ No Controls | Office | High Bay Lighting | Existing | building | 443 | 28% | 0.3 | 8 | \$3,091 | 13% | 0.1 |
| FE-Penn Power | Indoor Daylight Sensors | Lighting w/ No Controls | Office | High Bay Lighting | New | building | 443 | 4.1% | 0.04 | 8 | \$3,091 | 0% | 0.0 |
| FE-Penn Power | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Office | High Bay Lighting | Early | Fixture | 2,826 | 92% | 0.7 | 13 | \$1,916 | 95% | 0.8 |
| FE-Penn Power | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | Early | Fixture | 5,524 | 96% | 1.3 | 13 | \$1,916 | 95% | 1.6 |
| FE-Penn Power | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Office | High Bay Lighting | New | Fixture | 2,148 | 92% | 0.5 | 13 | \$1,468 | 95% | 0.8 |
| FE-Penn Power | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | New | Fixture | 4,198 | 96% | 1.0 | 13 | \$1,149 | 95% | 2.0 |
| FE-Penn Power | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Office | High Bay Lighting | ROB | Fixture | 2,826 | 92% | 0.7 | 13 | \$1,468 | 95% | 1.0 |
| FE-Penn Power | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | ROB | Fixture | 5,524 | 96% | 1.3 | 13 | \$1,149 | 95% | 2.6 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Office | High Bay Lighting | Early | Fixture | 938 | 67% | 0.2 | 13 | \$960 | 95% | 0.4 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Office | High Bay Lighting | Early | Fixture | 2,762 | 89% | 0.6 | 13 | \$960 | 95% | 1.4 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Office | High Bay Lighting | Early | Fixture | 758 | 59% | 0.1 | 13 | \$960 | 95% | 0.3 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Office | High Bay Lighting | New | Fixture | 713 | 67% | 0.1 | 13 | \$480 | 95% | 0.6 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Office | High Bay Lighting | New | Fixture | 2,099 | 89% | 0.5 | 13 | \$491 | 95% | 2.1 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Office | High Bay Lighting | New | Fixture | 576 | 59% | 0.08 | 13 | \$406 | 95% | 0.5 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Office | High Bay Lighting | ROB | Fixture | 938 | 67% | 0.2 | 13 | \$480 | 95% | 0.7 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Office | High Bay Lighting | ROB | Fixture | 2,762 | 89% | 0.6 | 13 | \$491 | 95% | 2.8 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Office | High Bay Lighting | ROB | Fixture | 758 | 59% | 0.1 | 13 | \$406 | 95% | 0.6 |
| FE-Penn Power | Occupancy Sensor | Lighting w/ No Controls | Office | High Bay Lighting | Existing | building | 443 | 24% | 0.2 | 8 | \$946 | 12% | 0.2 |
| FE-Penn Power | Occupancy Sensor | Lighting w/ No Controls | Office | High Bay Lighting | New | building | 443 | 6.9% | 0.07 | 8 | \$946 | 0% | 0.0 |
| FE-Penn Power | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Office | High Bay Lighting | Existing | building | 443 | 28% | 0.3 | 8 | \$3,091 | 12% | 0.1 |
| FE-Penn Power | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Office | High Bay Lighting | New | building | 443 | 4.0% | 0.04 | 8 | \$3,091 | 0% | 0.0 |
| FE-Penn Power | Time Clock Control | Lighting w/ No Controls | Office | High Bay Lighting | Existing | building | 443 | 28% | 0.3 | 8 | \$628 | 13% | 0.3 |
| FE-Penn Power | Time Clock Control | Lighting w/ No Controls | Office | High Bay Lighting | New | building | 443 | 4.1% | 0.04 | 8 | \$628 | 0% | 0.0 |
| FE-Penn Power | Auto Off Time Switch | Lighting w/ No Controls | Office | Lin. Fluor. Lighting | Existing | building | 12,539 | 24% | 0.2 | 8 | \$628 | 13% | 1.5 |
| FE-Penn Power | Auto Off Time Switch | Lighting w/ No Controls | Office | Lin. Fluor. Lighting | New | building | 12,539 | 6.9% | 0.07 | 8 | \$628 | 0% | 0.4 |
| FE-Penn Power | Central Lighting Control System | Lighting w/ No Controls | Office | Lin. Fluor. Lighting | Existing | building | 12,539 | 38% | 0.4 | 8 | \$628 | 12% | 2.4 |
| FE-Penn Power | Central Lighting Control System | Lighting w/ No Controls | Office | Lin. Fluor. Lighting | New | building | 12,539 | 14% | 0.1 | 8 | \$628 | 12% | 0.9 |
| FE-Penn Power | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Office | Lin. Fluor. Lighting | New | building | 12,539 | 10% | 0.1 | 15 | \$28,258 | 32% | 0.0 |
| FE-Penn Power | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Office | Lin. Fluor. Lighting | New | building | 12,539 | 15% | 0.2 | 15 | \$70,645 | 32% | 0.0 |
| FE-Penn Power | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Office | Lin. Fluor. Lighting | New | building | 12,539 | 30% | 0.3 | 15 | \$101,258 | 32% | 0.0 |
| FE-Penn Power | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Office | Lin. Fluor. Lighting | Early | Lamp | 172 | 38% | 0.01 | 12 | \$7.3 | 94% | 4.5 |
| FE-Penn Power | Indoor Daylight Sensors | Lighting w/ No Controls | Office | Lin. Fluor. Lighting | Existing | building | 12,539 | 28% | 0.3 | 8 | \$3,091 | 13% | 0.4 |
| FE-Penn Power | Indoor Daylight Sensors | Lighting w/ No Controls | Office | Lin. Fluor. Lighting | New | building | 12,539 | 4.1% | 0.04 | 8 | \$3,091 | 0% | 0.1 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Office | Lin. Fluor. Lighting | Early | Lamp | 61 | 19% | 0.00 | 15 | \$35 | 94% | 0.2 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 40W T12 Lamp, Magnetic Ballast | Office | Lin. Fluor. Lighting | Early | Lamp | 134 | 63% | 0.02 | 15 | \$35 | 94% | 1.5 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Office | Lin. Fluor. Lighting | Early | Lamp | 75 | 34% | 0.01 | 15 | \$35 | 94% | 0.5 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Office | Lin. Fluor. Lighting | Early | Lamp | 73 | 32% | 0.01 | 15 | \$35 | 94% | 0.4 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Office | Lin. Fluor. Lighting | New | Lamp | 47 | 19% | 0.00 | 15 | \$28 | 94% | 0.2 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Office | Lin. Fluor. Lighting | New | Lamp | 56 | 32% | 0.00 | 15 | \$29 | 94% | 0.4 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Office | Lin. Fluor. Lighting | New | Lamp | 57 | 34% | 0.00 | 15 | \$22 | 94% | 0.6 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Office | Lin. Fluor. Lighting | New | Lamp | 56 | 32% | 0.00 | 15 | \$29 | 94% | 0.4 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Office | Lin. Fluor. Lighting | ROB | Lamp | 61 | 19% | 0.00 | 15 | \$28 | 94% | 0.3 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Office | Lin. Fluor. Lighting | ROB | Lamp | 73 | 32% | 0.01 | 15 | \$29 | 94% | 0.5 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Office | Lin. Fluor. Lighting | ROB | Lamp | 75 | 34% | 0.01 | 15 | \$22 | 94% | 0.8 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Office | Lin. Fluor. Lighting | ROB | Lamp | 73 | 32% | 0.01 | 15 | \$29 | 94% | 0.5 |
| FE-Penn Power | Occupancy Sensor | Lighting w/ No Controls | Office | Lin. Fluor. Lighting | Existing | building | 12,539 | 24% | 0.2 | 8 | \$946 | 13% | 1.0 |
| FE-Penn Power | Occupancy Sensor | Lighting w/ No Controls | Office | Lin. Fluor. Lighting | New | building | 12,539 | 7.0% | 0.07 | 8 | \$946 | 0% | 0.3 |
| FE-Penn Power | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Office | Lin. Fluor. Lighting | Existing | building | 12,539 | 28% | 0.3 | 8 | \$3,091 | 12% | 0.4 |
| FE-Penn Power | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Office | Lin. Fluor. Lighting | New | building | 12,539 | 4.1% | 0.04 | 8 | \$3,091 | 0% | 0.1 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 40W T12 w/ Magnetic Ballast | Office | Lin. Fluor. Lighting | Early | Lamp | 172 | 54% | 0.02 | 12 | \$9.1 | 94% | 5.1 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Office | Lin. Fluor. Lighting | Early | Lamp | 110 | 28% | 0.01 | 12 | \$9.1 | 24% | 1.7 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Office | Lin. Fluor. Lighting | Early | Lamp | 107 | 26% | 0.01 | 12 | \$9.1 | 94% | 1.5 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Office | Lin. Fluor. Lighting | New | Lamp | 81 | 26% | 0.00 | 12 | \$2.5 | 94% | 4.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|--|---------|---------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Downsizing motor during retrofit | Larger hp standard motor | Office | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 18.1 |
| FE-Penn Power | Downsizing motor during retrofit | Larger hp standard motor | Office | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 18.4 |
| FE-Penn Power | Downsizing motor during retrofit | Larger hp standard motor | Office | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 19.0 |
| FE-Penn Power | Downsizing motor during retrofit | Larger hp standard motor | Office | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 19.2 |
| FE-Penn Power | Downsizing motor during retrofit | Larger hp standard motor | Office | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 17.6 |
| FE-Penn Power | Downsizing motor during retrofit | Larger hp standard motor | Office | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 18.1 |
| FE-Penn Power | Downsizing motor during retrofit | Larger hp standard motor | Office | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 18.3 |
| FE-Penn Power | Downsizing motor during retrofit | Larger hp standard motor | Office | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 18.8 |
| FE-Penn Power | Downsizing motor during retrofit | Larger hp standard motor | Office | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 19.3 |
| FE-Penn Power | Escalator Motor Controller | Constant power control | Office | Motors | New | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 22% | 4.8 |
| FE-Penn Power | Escalator Motor Controller | Constant power control | Office | Motors | ROB | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 22% | 4.8 |
| FE-Penn Power | Fan Motor - correct sizing | Incorrect Fan Motor Sizing | Office | Motors | ROB | measure | 5,088 | 2.9% | 0.02 | 15 | \$50 | 92% | 1.5 |
| FE-Penn Power | Variable Speed Drive Control, 15HP | Existing Motors w/out VSD Drive | Office | Motors | Early | motor | 23,411 | 70% | 2.2 | 15 | \$731 | 86% | 11.5 |
| FE-Penn Power | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Office | Motors | New | motor | 22,908 | 72% | 2.2 | 15 | \$731 | 86% | 11.5 |
| FE-Penn Power | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Office | Motors | ROB | motor | 22,908 | 72% | 2.2 | 15 | \$731 | 86% | 11.5 |
| FE-Penn Power | Variable Speed Drive Control, 40HP | Existing Motors w/out VSD Drive | Office | Motors | Early | motor | 61,088 | 71% | 5.7 | 15 | \$4,666 | 86% | 4.7 |
| FE-Penn Power | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Office | Motors | New | motor | 60,374 | 72% | 5.7 | 15 | \$4,666 | 86% | 4.7 |
| FE-Penn Power | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Office | Motors | ROB | motor | 60,374 | 72% | 5.7 | 15 | \$4,666 | 86% | 4.7 |
| FE-Penn Power | Variable Speed Drive Control, 5HP | Existing Motors w/out VFD Drive | Office | Motors | Early | motor | 8,116 | 70% | 0.8 | 15 | \$2,243 | 86% | 1.3 |
| FE-Penn Power | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Office | Motors | New | motor | 7,935 | 72% | 0.8 | 15 | \$2,243 | 86% | 1.3 |
| FE-Penn Power | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Office | Motors | ROB | motor | 7,935 | 72% | 0.8 | 15 | \$2,243 | 86% | 1.3 |
| FE-Penn Power | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Office | Motors | Early | motor | 4,390 | 26% | 0.1 | 15 | \$268 | 13% | 2.1 |
| FE-Penn Power | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Office | Motors | New | motor | 4,390 | 26% | 0.1 | 15 | \$268 | 13% | 2.1 |
| FE-Penn Power | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Office | Motors | ROB | motor | 4,390 | 26% | 0.1 | 15 | \$268 | 13% | 2.1 |
| FE-Penn Power | VFD on Chilled Water Pump | Motor w/out VFD Drive | Office | Motors | Early | motor | 15,992 | 54% | 2.7 | 15 | \$2,903 | 86% | 1.9 |
| FE-Penn Power | VFD on Chilled Water Pump | Motor w/out VFD Drive | Office | Motors | New | motor | 15,693 | 55% | 2.7 | 15 | \$2,843 | 86% | 2.0 |
| FE-Penn Power | VFD on Chilled Water Pump | Motor w/out VFD Drive | Office | Motors | ROB | motor | 15,693 | 55% | 2.7 | 15 | \$2,843 | 86% | 2.0 |
| FE-Penn Power | VFD on Condenser Water Pump | Motor w/out VFD Drive | Office | Motors | Early | motor | 15,905 | 32% | 3.2 | 15 | \$2,903 | 86% | 1.6 |
| FE-Penn Power | VFD on Condenser Water Pump | Motor w/out VFD Drive | Office | Motors | New | motor | 15,607 | 33% | 3.1 | 15 | \$2,843 | 86% | 1.6 |
| FE-Penn Power | VFD on Condenser Water Pump | Motor w/out VFD Drive | Office | Motors | ROB | motor | 15,607 | 33% | 3.1 | 15 | \$2,843 | 86% | 1.6 |
| FE-Penn Power | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Office | Motors | Early | motor | 29,846 | 56% | 0.00 | 15 | \$2,903 | 86% | 2.3 |
| FE-Penn Power | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Office | Motors | New | motor | 29,288 | 57% | 0.00 | 15 | \$2,843 | 86% | 2.4 |
| FE-Penn Power | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Office | Motors | ROB | motor | 29,288 | 57% | 0.00 | 15 | \$2,843 | 86% | 2.4 |
| FE-Penn Power | VFD on HVAC Fan | Motor w/out VFD | Office | Motors | Early | motor | 15,992 | 70% | 3.4 | 15 | \$2,903 | 86% | 2.5 |
| FE-Penn Power | VFD on HVAC Fan | Motor w/out VFD | Office | Motors | New | motor | 15,693 | 72% | 3.3 | 15 | \$2,843 | 86% | 2.5 |
| FE-Penn Power | VFD on HVAC Fan | Motor w/out VFD | Office | Motors | ROB | motor | 15,693 | 72% | 3.3 | 15 | \$2,843 | 86% | 2.5 |
| FE-Penn Power | Elevators | Std. Eff Elevator | Office | Other | ROB | measure | 89,016 | 2.8% | 0.4 | 15 | \$1,228 | 63% | 1.1 |
| FE-Penn Power | Variable Speed Drives on Process Equipment | Constant speed control | Office | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 9.2 |
| FE-Penn Power | Variable Speed Drives on Process Equipment | Constant speed control | Office | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 9.2 |
| FE-Penn Power | Auto Off Time Switch | Lighting w/ No Controls | Office | Other Int. Lighting | Existing | building | 3,660 | 24% | 0.2 | 8 | \$628 | 13% | 0.6 |
| FE-Penn Power | Auto Off Time Switch | Lighting w/ No Controls | Office | Other Int. Lighting | New | building | 3,660 | 7.0% | 0.07 | 8 | \$628 | 0% | 0.2 |
| FE-Penn Power | Central Lighting Control System | Lighting w/ No Controls | Office | Other Int. Lighting | Existing | building | 3,660 | 38% | 0.4 | 8 | \$628 | 13% | 0.9 |
| FE-Penn Power | Central Lighting Control System | Lighting w/ No Controls | Office | Other Int. Lighting | New | building | 3,660 | 14% | 0.1 | 8 | \$628 | 13% | 0.3 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 40W Incandescent Bulb | Office | Other Int. Lighting | Early | lamp | 141 | 87% | 0.03 | 11 | \$30 | 14% | 2.1 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Office | Other Int. Lighting | Early | lamp | 101 | 81% | 0.02 | 11 | \$30 | 11% | 1.4 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Office | Other Int. Lighting | New | lamp | 77 | 81% | 0.02 | 11 | \$21 | 14% | 1.5 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Office | Other Int. Lighting | New | lamp | 77 | 81% | 0.02 | 11 | \$23 | 14% | 1.4 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Office | Other Int. Lighting | New | lamp | 77 | 81% | 0.02 | 11 | \$22 | 11% | 1.4 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Office | Other Int. Lighting | ROB | lamp | 101 | 81% | 0.02 | 11 | \$21 | 14% | 1.9 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Office | Other Int. Lighting | ROB | lamp | 101 | 81% | 0.02 | 11 | \$23 | 14% | 1.8 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Office | Other Int. Lighting | ROB | lamp | 101 | 81% | 0.02 | 11 | \$22 | 11% | 1.9 |
| FE-Penn Power | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Office | Other Int. Lighting | Early | lamp | 141 | 75% | 0.03 | 4 | \$73 | 24% | 0.3 |
| FE-Penn Power | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Office | Other Int. Lighting | New | fixture | 154 | 65% | 0.02 | 13 | \$29 | 28% | 2.0 |
| FE-Penn Power | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Office | Other Int. Lighting | New | lamp | 77 | 65% | 0.01 | 4 | \$29 | 28% | 0.4 |
| FE-Penn Power | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Office | Other Int. Lighting | ROB | fixture | 203 | 65% | 0.03 | 13 | \$29 | 24% | 2.6 |
| FE-Penn Power | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Office | Other Int. Lighting | ROB | lamp | 101 | 65% | 0.02 | 4 | \$29 | 24% | 0.5 |
| FE-Penn Power | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Office | Other Int. Lighting | Early | lamp | 141 | 75% | 0.03 | 4 | \$3.2 | 24% | 7.9 |
| FE-Penn Power | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Office | Other Int. Lighting | New | lamp | 77 | 65% | 0.01 | 4 | \$1.8 | 24% | 6.7 |
| FE-Penn Power | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Office | Other Int. Lighting | ROB | lamp | 101 | 65% | 0.02 | 4 | \$1.8 | 24% | 8.8 |
| FE-Penn Power | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Office | Other Int. Lighting | ROB | lamp | 101 | 65% | 0.02 | 4 | \$1.8 | 24% | 8.8 |
| FE-Penn Power | Exit Sign Retrofit: CFL replacing Incandescent | One 23W Single Sided Incandescent Exit Sign | Office | Other Int. Lighting | Early | exit sign | 140 | 42% | 0.01 | 15 | \$48 | 22% | 0.7 |
| FE-Penn Power | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Office | Other Int. Lighting | New | building | 3,660 | 10% | 0.1 | 15 | \$28,258 | 32% | 0.0 |
| FE-Penn Power | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Office | Other Int. Lighting | New | building | 3,660 | 15% | 0.2 | 15 | \$70,645 | 32% | 0.0 |
| FE-Penn Power | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Office | Other Int. Lighting | New | building | 3,660 | 30% | 0.3 | 15 | \$101,258 | 32% | 0.0 |
| FE-Penn Power | Indoor Daylight Sensors | Lighting w/ No Controls | Office | Other Int. Lighting | Existing | building | 3,660 | 28% | 0.3 | 8 | \$3,091 | 13% | 0.1 |
| FE-Penn Power | Indoor Daylight Sensors | Lighting w/ No Controls | Office | Other Int. Lighting | New | building | 3,660 | 4.1% | 0.04 | 8 | \$3,091 | 0% | 0.0 |
| FE-Penn Power | LED Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Office | Other Int. Lighting | Early | sign | 153 | 87% | 0.02 | 15 | \$48 | 16% | 1.5 |
| FE-Penn Power | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Office | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 1.6 |
| FE-Penn Power | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Office | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 1.6 |
| FE-Penn Power | LED Task Lighting/Screw-In | 1 15W CFL bulb | Office | Other Int. Lighting | Early | lamp | 22 | 33% | 0.00 | 15 | \$9.6 | 24% | 0.5 |
| FE-Penn Power | LED Task Lighting/Screw-In | 1 60W Incandescent Bulb | Office | Other Int. Lighting | Early | lamp | 88 | 83% | 0.02 | 15 | \$9.6 | 24% | 4.6 |
| FE-Penn Power | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Office | Other Int. Lighting | New | lamp | 48 | 77% | 0.01 | 15 | \$7.9 | 24% | 2.8 |
| FE-Penn Power | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Office | Other Int. Lighting | New | lamp | 48 | 77% | 0.01 | 15 | \$7.9 | 24% | 2.8 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|---|---------|---------------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Office | Other Int. Lighting | ROB | lamp | 63 | 77% | 0.01 | 15 | \$7.9 | 24% | 3.6 |
| FE-Penn Power | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Office | Other Int. Lighting | ROB | lamp | 63 | 77% | 0.01 | 15 | \$7.9 | 24% | 3.6 |
| FE-Penn Power | Occupancy Sensor | Lighting w/ No Controls | Office | Other Int. Lighting | Existing | building | 3,660 | 24% | 0.2 | 8 | \$946 | 12% | 0.4 |
| FE-Penn Power | Occupancy Sensor | Lighting w/ No Controls | Office | Other Int. Lighting | New | building | 3,660 | 7.0% | 0.07 | 8 | \$946 | 0% | 0.1 |
| FE-Penn Power | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Office | Other Int. Lighting | Existing | building | 3,660 | 28% | 0.3 | 8 | \$3,091 | 12% | 0.1 |
| FE-Penn Power | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Office | Other Int. Lighting | New | building | 3,660 | 4.1% | 0.04 | 8 | \$3,091 | 0% | 0.0 |
| FE-Penn Power | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Office | Other Int. Lighting | Early | exit sign | 140 | 100% | 0.02 | 15 | \$173 | 26% | 0.4 |
| FE-Penn Power | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Office | Other Int. Lighting | New | exit sign | 81 | 100% | 0.01 | 15 | \$148 | 31% | 0.3 |
| FE-Penn Power | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Office | Other Int. Lighting | ROB | exit sign | 81 | 100% | 0.01 | 15 | \$148 | 26% | 0.3 |
| FE-Penn Power | Time Clock Control | Lighting w/ No Controls | Office | Other Int. Lighting | Existing | building | 3,660 | 28% | 0.3 | 8 | \$628 | 13% | 0.7 |
| FE-Penn Power | Time Clock Control | Lighting w/ No Controls | Office | Other Int. Lighting | New | building | 3,660 | 4.1% | 0.04 | 8 | \$628 | 0% | 0.1 |
| FE-Penn Power | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Office | Plug Load | Existing | building | 2,913 | 46% | 0.5 | 5 | \$189 | 4% | 2.2 |
| FE-Penn Power | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Office | Plug Load | New | building | 1,422 | 46% | 0.5 | 5 | \$189 | 4% | 1.5 |
| FE-Penn Power | Data Center - Server/Storage Consolidation | No Consolidation | Office | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 36% | 0.0 |
| FE-Penn Power | Data Center - Server/Storage Consolidation | No Consolidation | Office | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 36% | 0.0 |
| FE-Penn Power | Data Center - Server/Storage Virtualization | No Virtualization | Office | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 36% | 0.0 |
| FE-Penn Power | Data Center - Server/Storage Virtualization | No Virtualization | Office | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 36% | 0.0 |
| FE-Penn Power | Energy Star - Scanners | Std Scanner | Office | Plug Load | New | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 88% | 0.1 |
| FE-Penn Power | Energy Star - Scanners | Std Scanner | Office | Plug Load | ROB | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 88% | 0.1 |
| FE-Penn Power | Energy Star Battery Charging System (for small cordless products) | Std. Battery Charging System | Office | Plug Load | ROB | measure | 593 | 2.3% | 1.3 | 5 | \$65 | 4% | 7.3 |
| FE-Penn Power | Energy Star Dishwasher | Existing Dishwasher units | Office | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,580 | 1% | 0.9 |
| FE-Penn Power | Energy Star Dishwasher | Standard Dishwasher unit | Office | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 1% | 2.8 |
| FE-Penn Power | Energy Star Dishwasher | Standard Dishwasher unit | Office | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 1% | 2.8 |
| FE-Penn Power | Energy Star External Power Adapter | Std. Power Adapter | Office | Plug Load | New | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| FE-Penn Power | Energy Star External Power Adapter | Std. Power Adapter | Office | Plug Load | ROB | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| FE-Penn Power | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Office | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 17% | 0.1 |
| FE-Penn Power | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Office | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 1.7 |
| FE-Penn Power | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Office | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 1.7 |
| FE-Penn Power | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Office | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 9% | 0.7 |
| FE-Penn Power | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Office | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.5 |
| FE-Penn Power | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Office | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.5 |
| FE-Penn Power | ENERGY STAR® Copiers | 10% Less Efficient Copier | Office | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 80% | 0.0 |
| FE-Penn Power | ENERGY STAR® Copiers | One Conventional Copier | Office | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 80% | 0.0 |
| FE-Penn Power | ENERGY STAR® Copiers | One Conventional Copier | Office | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 80% | 0.0 |
| FE-Penn Power | ENERGY STAR® desktop | Standard computer | Office | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 87% | 0.1 |
| FE-Penn Power | ENERGY STAR® desktop | Standard computer | Office | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 87% | 2.2 |
| FE-Penn Power | ENERGY STAR® desktop | Standard computer | Office | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 87% | 2.2 |
| FE-Penn Power | ENERGY STAR® Fax | 10% Less Efficient Fax | Office | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 89% | 0.0 |
| FE-Penn Power | ENERGY STAR® Fax | One Conventional Fax | Office | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 89% | 0.1 |
| FE-Penn Power | ENERGY STAR® Fax | One Conventional Fax | Office | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 89% | 0.1 |
| FE-Penn Power | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Office | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 89% | 0.0 |
| FE-Penn Power | ENERGY STAR® Monitors | One Conventional Monitor | Office | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 89% | 0.0 |
| FE-Penn Power | ENERGY STAR® Monitors | One Conventional Monitor | Office | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 89% | 0.0 |
| FE-Penn Power | ENERGY STAR® Printers | 10% Less Efficient Printer | Office | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 89% | 0.0 |
| FE-Penn Power | ENERGY STAR® Printers | One Conventional Printer | Office | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 89% | 0.3 |
| FE-Penn Power | ENERGY STAR® Printers | One Conventional Printer | Office | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$130 | 89% | 0.3 |
| FE-Penn Power | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Office | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 87% | 0.1 |
| FE-Penn Power | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Office | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 87% | 0.6 |
| FE-Penn Power | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Office | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 87% | 0.6 |
| FE-Penn Power | ENERGY STAR® Televisions | 10% Less Efficient Television | Office | Plug Load | Early | Unit | 179 | 38% | 0.01 | 6 | \$672 | 85% | 0.0 |
| FE-Penn Power | ENERGY STAR® Televisions | One Conventional Television | Office | Plug Load | New | Unit | 163 | 32% | 0.01 | 6 | \$206 | 85% | 0.1 |
| FE-Penn Power | ENERGY STAR® Televisions | One Conventional Television | Office | Plug Load | ROB | Unit | 163 | 32% | 0.01 | 6 | \$206 | 85% | 0.1 |
| FE-Penn Power | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Office | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 81% | 0.2 |
| FE-Penn Power | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Office | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 81% | 0.5 |
| FE-Penn Power | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Office | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 81% | 0.5 |
| FE-Penn Power | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Office | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 51% | 0.2 |
| FE-Penn Power | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Office | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 51% | 0.2 |
| FE-Penn Power | Network PC Power Management | No PC Power Management | Office | Plug Load | Existing | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 16.9 |
| FE-Penn Power | Network PC Power Management | No PC Power Management | Office | Plug Load | New | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 16.8 |
| FE-Penn Power | Smart Strip Plug Outlets | Standard plug strip/outlet | Office | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.3 |
| FE-Penn Power | Smart Strip Plug Outlets | Standard plug strip/outlet | Office | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.3 |
| FE-Penn Power | Smart Strip Plug Outlets | Standard plug strip/outlet | Office | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| FE-Penn Power | Smart Strip Plug Outlets | Standard plug strip/outlet | Office | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| FE-Penn Power | Smart Strip Plug Outlets | Standard plug strip/outlet | Office | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| FE-Penn Power | Smart Strip Plug Outlets | Standard plug strip/outlet | Office | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| FE-Penn Power | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Office | Plug Load | Existing | building | 2,913 | 46% | 0.5 | 5 | \$180 | 3% | 2.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|--|---------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Office | Plug Load | New | building | 1,422 | 46% | 0.5 | 5 | \$180 | 3% | 1.6 |
| FE-Penn Power | Auto Closer on Refrigerator Door | Door w/out Autocloser | Office | Refrigeration | Existing | building | 1,286 | 55% | 0.5 | 8 | \$747 | 40% | 0.6 |
| FE-Penn Power | Auto Closer on Refrigerator Door | Door w/out Autocloser | Office | Refrigeration | Existing | building | 3,677 | 19% | 0.2 | 8 | \$476 | 40% | 0.6 |
| FE-Penn Power | Auto Closer on Refrigerator Door | Door w/out Autocloser | Office | Refrigeration | New | building | 1,286 | 55% | 0.5 | 8 | \$747 | 40% | 0.6 |
| FE-Penn Power | Auto Closer on Refrigerator Door | Door w/out Autocloser | Office | Refrigeration | New | building | 3,677 | 19% | 0.2 | 8 | \$476 | 40% | 0.6 |
| FE-Penn Power | Door Gasket- Freezer | Door w/out Gasket | Office | Refrigeration | Existing | building | 1,286 | 30% | 0.3 | 4 | \$77 | 29% | 2.0 |
| FE-Penn Power | Door Gasket- Freezer | Door w/out Gasket | Office | Refrigeration | New | building | 1,286 | 31% | 0.3 | 4 | \$77 | 29% | 2.0 |
| FE-Penn Power | Door Gasket- Refrigerator | Door w/out Gasket | Office | Refrigeration | Existing | building | 3,677 | 6.1% | 0.06 | 4 | \$66 | 45% | 0.8 |
| FE-Penn Power | Door Gasket- Refrigerator | Door w/out Gasket | Office | Refrigeration | New | building | 3,677 | 6.1% | 0.06 | 4 | \$66 | 45% | 0.8 |
| FE-Penn Power | eCube | Refrigeration unit w/out eCube | Office | Refrigeration | Existing | building | 3,677 | 15% | 0.2 | 15 | \$38 | 57% | 8.9 |
| FE-Penn Power | eCube | Refrigeration unit w/out eCube | Office | Refrigeration | New | building | 3,677 | 15% | 0.2 | 15 | \$38 | 57% | 8.9 |
| FE-Penn Power | Efficient compressor motor | Base Refrigeration System - Grocery | Office | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.3 |
| FE-Penn Power | Efficient compressor motor | Base Refrigeration System - Grocery | Office | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.4 |
| FE-Penn Power | Efficient compressor motor | Base Refrigeration System - Grocery | Office | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.3 |
| FE-Penn Power | Efficient compressor motor | Base Refrigeration System - Grocery | Office | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.4 |
| FE-Penn Power | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Office | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.4 |
| FE-Penn Power | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Office | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.2 |
| FE-Penn Power | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Office | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.2 |
| FE-Penn Power | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Office | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.2 |
| FE-Penn Power | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Office | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.6 |
| FE-Penn Power | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Office | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.6 |
| FE-Penn Power | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Office | Refrigeration | Existing | building | 3,677 | 3.5% | 0.04 | 10 | \$369 | 77% | 0.2 |
| FE-Penn Power | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Office | Refrigeration | New | building | 3,677 | 3.5% | 0.04 | 10 | \$369 | 77% | 0.2 |
| FE-Penn Power | Floating head pressure controller | System w/out FHPC | Office | Refrigeration | Existing | building | 1,286 | 18% | 0.05 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penn Power | Floating head pressure controller | System w/out FHPC | Office | Refrigeration | Existing | building | 3,677 | 2.2% | 0.02 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penn Power | Floating head pressure controller | System w/out FHPC | Office | Refrigeration | New | building | 1,286 | 18% | 0.05 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penn Power | Floating head pressure controller | System w/out FHPC | Office | Refrigeration | New | building | 3,677 | 2.2% | 0.02 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penn Power | High Efficiency Commercial Freezer | Std. Commercial Freezer | Office | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 86% | 0.3 |
| FE-Penn Power | High Efficiency Commercial Freezer | Std. Commercial Freezer | Office | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 3.2 |
| FE-Penn Power | High Efficiency Commercial Freezer | Std. Commercial Freezer | Office | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 3.2 |
| FE-Penn Power | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Office | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 2% | 0.1 |
| FE-Penn Power | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Office | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.7 |
| FE-Penn Power | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Office | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.7 |
| FE-Penn Power | High Efficiency Ice Maker | Existing Standard Efficiency Ice Maker in Pennsylvania | Office | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 73% | 0.1 |
| FE-Penn Power | High Efficiency Ice Maker | Standard code minimum Ice Maker | Office | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.1 |
| FE-Penn Power | High Efficiency Ice Maker | Standard code minimum Ice Maker | Office | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.1 |
| FE-Penn Power | High Efficiency Ice Making Head | Standard Ice Making Head | Office | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.2 |
| FE-Penn Power | High Efficiency Ice Making Head | Standard Ice Making Head | Office | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.2 |
| FE-Penn Power | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Office | Refrigeration | Early | Fixture | 373 | 56% | 0.02 | 8 | \$448 | 47% | 0.1 |
| FE-Penn Power | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Office | Refrigeration | New | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 47% | 0.3 |
| FE-Penn Power | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Office | Refrigeration | ROB | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 47% | 0.3 |
| FE-Penn Power | Quick acting freezer doors | Std. Freezer Doors | Office | Refrigeration | Existing | building | 1,286 | 13% | 0.1 | 10 | \$408 | 56% | 0.3 |
| FE-Penn Power | Quick acting freezer doors | Std. Freezer Doors | Office | Refrigeration | New | building | 1,286 | 13% | 0.1 | 10 | \$408 | 56% | 0.3 |
| FE-Penn Power | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Office | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 30% | 0.3 |
| FE-Penn Power | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Office | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.3 |
| FE-Penn Power | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Office | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.3 |
| FE-Penn Power | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 30% | 1.3 |
| FE-Penn Power | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 2.2 |
| FE-Penn Power | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 2.2 |
| FE-Penn Power | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 30% | 1.3 |
| FE-Penn Power | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 3.0 |
| FE-Penn Power | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 3.0 |
| FE-Penn Power | Refrigeration Commissioning | Non-commissioned refrigeration system | Office | Refrigeration | Existing | building | 5,143 | 9.5% | 0.10 | 3 | \$1,086 | 85% | 0.1 |
| FE-Penn Power | Refrigeration Commissioning | Non-commissioned refrigeration system | Office | Refrigeration | New | building | 5,143 | 9.5% | 0.10 | 3 | \$1,086 | 85% | 0.1 |
| FE-Penn Power | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Office | Refrigeration | Existing | building | 1,286 | 70% | 0.7 | 4 | \$93 | 22% | 3.8 |
| FE-Penn Power | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Office | Refrigeration | Existing | building | 3,677 | 8.5% | 0.09 | 4 | \$80 | 22% | 0.9 |
| FE-Penn Power | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Office | Refrigeration | New | building | 1,286 | 70% | 0.7 | 4 | \$93 | 22% | 3.8 |
| FE-Penn Power | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Office | Refrigeration | New | building | 3,677 | 8.5% | 0.09 | 4 | \$80 | 22% | 0.9 |
| FE-Penn Power | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Office | Refrigeration | Existing | building | 1,286 | 12% | 0.1 | 11 | \$117 | 79% | 1.1 |
| FE-Penn Power | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Office | Refrigeration | New | building | 1,286 | 12% | 0.1 | 11 | \$117 | 79% | 1.1 |
| FE-Penn Power | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Office | Refrigeration | Existing | building | 3,677 | 8.9% | 0.09 | 11 | \$117 | 79% | 1.4 |
| FE-Penn Power | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Office | Refrigeration | New | building | 3,677 | 8.9% | 0.09 | 11 | \$117 | 79% | 1.4 |
| FE-Penn Power | VSD Controlled Compressor | Compressor w/out VSD | Office | Refrigeration | Early | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|---|---------|-----------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | VSD Controlled Compressor | Compressor w/out VSD | Office | Refrigeration | New | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |
| FE-Penn Power | VSD Controlled Compressor | Compressor w/out VSD | Office | Refrigeration | ROB | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |
| FE-Penn Power | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Office | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$269 | 35% | 0.7 |
| FE-Penn Power | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Office | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$269 | 35% | 0.7 |
| FE-Penn Power | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Office | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 2.4 |
| FE-Penn Power | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Office | Refrigeration | New | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 2.3 |
| FE-Penn Power | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Office | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 2.4 |
| FE-Penn Power | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Office | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 2.3 |
| FE-Penn Power | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 35% | 1.9 |
| FE-Penn Power | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 35% | 1.8 |
| FE-Penn Power | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 3.9 |
| FE-Penn Power | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 3.7 |
| FE-Penn Power | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 3.9 |
| FE-Penn Power | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 3.7 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Office | Space Heating | Existing | building | 12,350 | 7.1% | 0.07 | 6 | \$11,674 | 82% | 0.0 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Office | Space Heating | New | building | 12,350 | 7.1% | 0.07 | 6 | \$11,674 | 82% | 0.0 |
| FE-Penn Power | Adding window shade film | No shade film | Office | Space Heating | Existing | building | 12,350 | 1.3% | 0.4 | 10 | \$150 | 13% | 1.8 |
| FE-Penn Power | Adding window shade film | No shade film | Office | Space Heating | New | building | 12,350 | 1.3% | 0.4 | 10 | \$150 | 13% | 1.8 |
| FE-Penn Power | Adding window shade screen | No shade screen | Office | Space Heating | Existing | building | 12,350 | 1.1% | 0.01 | 10 | \$58 | 13% | 0.8 |
| FE-Penn Power | Adding window shade screen | No shade screen | Office | Space Heating | New | building | 12,350 | 1.1% | 0.01 | 10 | \$58 | 13% | 0.8 |
| FE-Penn Power | Automated control system | Manual Controls | Office | Space Heating | Existing | building | 12,350 | 17% | 0.2 | 15 | \$13,520 | 51% | 0.1 |
| FE-Penn Power | Automated control system | Manual Controls | Office | Space Heating | New | building | 12,350 | 17% | 0.2 | 15 | \$13,520 | 94% | 0.1 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Office | Space Heating | Existing | building | 12,350 | 4.9% | 0.05 | 15 | \$16,437 | 71% | 0.0 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Office | Space Heating | New | building | 12,350 | 2.3% | 0.02 | 15 | \$15,624 | 94% | 0.0 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Office | Space Heating | Existing | building | 12,350 | 1.4% | 0.04 | 15 | \$98 | 20% | 1.0 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Office | Space Heating | New | building | 12,350 | 1.4% | 0.04 | 15 | \$98 | 10% | 1.0 |
| FE-Penn Power | Efficient Unit Heating System | Existing Unit Heaters in PA | Office | Space Heating | Early | heater | 1,519 | 23% | 0.00 | 15 | \$3,289 | 83% | 0.0 |
| FE-Penn Power | Efficient Unit Heating System | Std. Unit Heater | Office | Space Heating | New | heater | 1,348 | 13% | 0.00 | 15 | \$1,991 | 83% | 0.0 |
| FE-Penn Power | Efficient Unit Heating System | Std. Unit Heater | Office | Space Heating | ROB | heater | 1,348 | 13% | 0.00 | 15 | \$1,991 | 83% | 0.0 |
| FE-Penn Power | Facility Commissioning | No Facility Commissioning | Office | Space Heating | New | building | 12,350 | 16% | 0.2 | 10 | \$44,863 | 89% | 0.0 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Office | Space Heating | Existing | building | 12,350 | 7.1% | 0.07 | 15 | \$54,781 | 25% | 0.0 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Office | Space Heating | New | building | 12,350 | 7.1% | 0.07 | 15 | \$54,781 | 35% | 0.0 |
| FE-Penn Power | Hi Eff HVAC System Design | No HVAC Design | Office | Space Heating | New | building | 12,350 | 0.8% | 0.01 | 10 | \$1,017 | 51% | 0.0 |
| FE-Penn Power | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Office | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 0.8 |
| FE-Penn Power | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Office | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 0.8 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Office | Space Heating | Existing | building | 12,350 | 2.8% | 0.03 | 10 | \$7,735 | 81% | 0.0 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Office | Space Heating | New | building | 12,350 | 2.8% | 0.03 | 10 | \$7,735 | 81% | 0.0 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Office | Space Heating | Existing | building | 12,350 | 3.6% | 0.04 | 11 | \$286 | 49% | 0.6 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Office | Space Heating | New | building | 12,350 | 3.1% | 0.03 | 11 | \$146 | 49% | 0.9 |
| FE-Penn Power | Re-Commissioning (Existing Construction) | No Re-Commissioning | Office | Space Heating | Existing | building | 12,350 | 16% | 0.2 | 5 | \$7,777 | 86% | 0.1 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Office | Space Heating | Existing | building | 12,350 | 15% | 0.2 | 15 | \$5,028 | 26% | 0.2 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Office | Space Heating | New | building | 12,350 | 0.5% | 0.01 | 15 | \$3,857 | 94% | 0.0 |
| FE-Penn Power | Green LED Traffic Light | Green Incandescent Traffic Light | Office | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 0% | 1.0 |
| FE-Penn Power | Green LED Traffic Light | Green Incandescent Traffic Light | Office | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| FE-Penn Power | Green LED Traffic Light | Green Incandescent Traffic Light | Office | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| FE-Penn Power | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Office | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 0% | 2.6 |
| FE-Penn Power | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Office | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-Penn Power | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Office | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-Penn Power | Induction Street Lighting | One 100W HPS Street Light Fixture | Office | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 0% | 0.2 |
| FE-Penn Power | Induction Street Lighting | One 100W HPS Street Light Fixture | Office | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.4 |
| FE-Penn Power | Induction Street Lighting | One 100W HPS Street Light Fixture | Office | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.4 |
| FE-Penn Power | LED Street Lighting | One 100W HPS Street Light | Office | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 0% | 0.2 |
| FE-Penn Power | LED Street Lighting | One 100W HPS Street Light | Office | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-Penn Power | LED Street Lighting | One 100W HPS Street Light | Office | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-Penn Power | Red LED Traffic Light | One Red Incandescent Traffic Light | Office | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 0% | 1.4 |
| FE-Penn Power | Red LED Traffic Light | One Red Incandescent Traffic Light | Office | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.2 |
| FE-Penn Power | Red LED Traffic Light | One Red Incandescent Traffic Light | Office | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.2 |
| FE-Penn Power | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Office | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 0% | 0.1 |
| FE-Penn Power | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Office | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-Penn Power | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Office | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-Penn Power | Demand controlled Circulating Systems | Constant circulation system | Office | Water Heating | Existing | building | 893 | 20% | 0.2 | 15 | \$162 | 59% | 1.4 |
| FE-Penn Power | Demand controlled Circulating Systems | Constant circulation system | Office | Water Heating | New | building | 893 | 20% | 0.2 | 15 | \$162 | 59% | 1.4 |
| FE-Penn Power | Drainwater Heat Recovery Water Heater | No heat recovery | Office | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.5 |
| FE-Penn Power | Drainwater Heat Recovery Water Heater | No heat recovery | Office | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.5 |
| FE-Penn Power | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Office | Water Heating | Existing | building | 893 | 5.9% | 0.06 | 12 | \$70 | 85% | 0.9 |
| FE-Penn Power | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Office | Water Heating | New | building | 893 | 5.9% | 0.06 | 12 | \$20 | 85% | 3.0 |
| FE-Penn Power | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Office | Water Heating | Early | water heater | 9,692 | 66% | 1.1 | 10 | \$1,187 | 68% | 2.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|--|---|--------------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Office | Water Heating | Early | water heater | 9,692 | 66% | 1.1 | 10 | \$1,187 | 68% | 2.3 |
| FE-Penn Power | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Office | Water Heating | New | water heater | 9,692 | 66% | 1.1 | 10 | \$1,187 | 68% | 2.3 |
| FE-Penn Power | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Office | Water Heating | New | water heater | 9,692 | 66% | 1.1 | 10 | \$1,187 | 68% | 2.3 |
| FE-Penn Power | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Office | Water Heating | ROB | water heater | 9,423 | 65% | 1.1 | 10 | \$1,187 | 68% | 2.2 |
| FE-Penn Power | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Office | Water Heating | ROB | water heater | 9,423 | 65% | 1.1 | 10 | \$1,187 | 68% | 2.2 |
| FE-Penn Power | Heat Recovery Unit | Base Water Heating | Office | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.3 |
| FE-Penn Power | Heat Recovery Unit | Base Water Heating | Office | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.3 |
| FE-Penn Power | Heat Trap | No Heat Trap | Office | Water Heating | Existing | building | 893 | 22% | 0.2 | 11 | \$6.1 | 50% | 35.0 |
| FE-Penn Power | Heat Trap | No Heat Trap | Office | Water Heating | New | building | 893 | 22% | 0.2 | 11 | \$0.9 | 50% | 235.2 |
| FE-Penn Power | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Office | Water Heating | Early | water heater | 9,692 | 5.9% | 0.1 | 15 | \$307 | 79% | 1.1 |
| FE-Penn Power | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Office | Water Heating | Early | water heater | 9,692 | 5.9% | 0.1 | 15 | \$307 | 79% | 1.1 |
| FE-Penn Power | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Office | Water Heating | New | water heater | 9,423 | 3.2% | 0.05 | 15 | \$307 | 79% | 0.6 |
| FE-Penn Power | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Office | Water Heating | New | water heater | 9,423 | 3.2% | 0.05 | 15 | \$307 | 79% | 0.6 |
| FE-Penn Power | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Office | Water Heating | ROB | water heater | 9,423 | 3.2% | 0.05 | 15 | \$307 | 79% | 0.6 |
| FE-Penn Power | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Office | Water Heating | ROB | water heater | 9,423 | 3.2% | 0.05 | 15 | \$307 | 79% | 0.6 |
| FE-Penn Power | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Office | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$466 | 81% | 32.0 |
| FE-Penn Power | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Office | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 16.7 |
| FE-Penn Power | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Office | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 16.7 |
| FE-Penn Power | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Office | Water Heating | Existing | building | 893 | 3.9% | 0.04 | 13 | \$5.1 | 68% | 8.1 |
| FE-Penn Power | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Office | Water Heating | New | building | 893 | 3.9% | 0.04 | 13 | \$5.1 | 0% | 8.1 |
| FE-Penn Power | Hot Water Circulation Pump Time-Clock | Constant circulation system | Office | Water Heating | Existing | building | 893 | 5.3% | 0.05 | 10 | \$3.6 | 72% | 13.3 |
| FE-Penn Power | Hot Water Circulation Pump Time-Clock | Constant circulation system | Office | Water Heating | New | building | 893 | 5.3% | 0.05 | 10 | \$3.6 | 72% | 13.3 |
| FE-Penn Power | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Office | Water Heating | Existing | building | 893 | 1.1% | 0.01 | 7 | \$22 | 78% | 0.3 |
| FE-Penn Power | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Office | Water Heating | New | building | 893 | 0.9% | 0.01 | 7 | \$0.5 | 78% | 12.8 |
| FE-Penn Power | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Office | Water Heating | Existing | building | 893 | 13% | 0.1 | 5 | \$300 | 0% | 0.2 |
| FE-Penn Power | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Office | Water Heating | New | building | 893 | 13% | 0.1 | 5 | \$194 | 0% | 0.4 |
| FE-Penn Power | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Office | Water Heating | Existing | building | 893 | 6.5% | 0.07 | 9 | \$25 | 2% | 2.2 |
| FE-Penn Power | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Office | Water Heating | New | building | 893 | 6.5% | 0.07 | 9 | \$6.0 | 2% | 9.1 |
| FE-Penn Power | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Office | Water Heating | Early | water heater | 9,692 | 52% | 0.4 | 15 | \$6,222 | 32% | 0.4 |
| FE-Penn Power | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Office | Water Heating | New | water heater | 9,423 | 51% | 0.4 | 15 | \$6,222 | 32% | 0.4 |
| FE-Penn Power | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Office | Water Heating | ROB | water heater | 9,423 | 51% | 0.4 | 15 | \$6,222 | 32% | 0.4 |
| FE-Penn Power | Ultrasonic Faucet Control | Manual Faucet Control | Office | Water Heating | Existing | building | 893 | 3.0% | 0.03 | 10 | \$154 | 77% | 0.2 |
| FE-Penn Power | Ultrasonic Faucet Control | Manual Faucet Control | Office | Water Heating | New | building | 893 | 3.1% | 0.03 | 10 | \$154 | 77% | 0.2 |
| FE-Penn Power | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Office | Water Heating | Existing | building | 893 | 2.2% | 0.02 | 4 | \$28 | 83% | 0.4 |
| FE-Penn Power | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Office | Water Heating | New | building | 893 | 2.3% | 0.02 | 4 | \$28 | 83% | 0.4 |
| FE-Penn Power | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Other Inst'l | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 0.9 |
| FE-Penn Power | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Other Inst'l | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 0.9 |
| FE-Penn Power | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Other Inst'l | Cooking | Early | steamer | 51 | 46% | 0.00 | 12 | \$5,053 | 81% | 0.0 |
| FE-Penn Power | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Other Inst'l | Cooking | New | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-Penn Power | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Other Inst'l | Cooking | ROB | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-Penn Power | Electric combination oven (Energy Star) | Standard Oven | Other Inst'l | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.5 |
| FE-Penn Power | Electric combination oven (Energy Star) | Standard Oven | Other Inst'l | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.5 |
| FE-Penn Power | Electric Convection Oven | Conventional convection oven w/ 65% efficiency | Other Inst'l | Cooking | Early | oven | 8,641 | 37% | 0.6 | 12 | \$4,119 | 81% | 0.4 |
| FE-Penn Power | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Other Inst'l | Cooking | New | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.6 |
| FE-Penn Power | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Other Inst'l | Cooking | ROB | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.6 |
| FE-Penn Power | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Other Inst'l | Cooking | Early | fryer | 6,105 | 23% | 0.3 | 12 | \$9,241 | 86% | 0.1 |
| FE-Penn Power | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Other Inst'l | Cooking | New | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| FE-Penn Power | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Other Inst'l | Cooking | ROB | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| FE-Penn Power | High Efficiency Griddle (ENERGY STAR) | Efficiency code minimum griddle (70% eff) | Other Inst'l | Cooking | Early | griddle | 11,317 | 65% | 1.4 | 12 | \$4,977 | 86% | 0.7 |
| FE-Penn Power | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Other Inst'l | Cooking | New | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.0 |
| FE-Penn Power | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Other Inst'l | Cooking | ROB | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.0 |
| FE-Penn Power | High Efficiency Induction Cooking | Standard Cooking | Other Inst'l | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-Penn Power | High Efficiency Induction Cooking | Standard Cooking | Other Inst'l | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Other Inst'l | Cooling Central | Existing | building | 1,680 | 7.0% | 0.07 | 6 | \$12,330 | 82% | 0.0 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Other Inst'l | Cooling Central | New | building | 1,680 | 7.0% | 0.07 | 6 | \$12,330 | 82% | 0.0 |
| FE-Penn Power | Adding window shade film | No shade film | Other Inst'l | Cooling Central | Existing | building | 1,680 | 1.3% | 0.4 | 10 | \$20 | 12% | 11.5 |
| FE-Penn Power | Adding window shade film | No shade film | Other Inst'l | Cooling Central | New | building | 1,680 | 1.3% | 0.4 | 10 | \$20 | 13% | 11.5 |
| FE-Penn Power | Adding window shade screen | No shade screen | Other Inst'l | Cooling Central | Existing | building | 1,680 | 1.1% | 0.01 | 10 | \$7.9 | 13% | 1.5 |
| FE-Penn Power | Adding window shade screen | No shade screen | Other Inst'l | Cooling Central | New | building | 1,680 | 1.1% | 0.01 | 10 | \$7.9 | 13% | 1.5 |
| FE-Penn Power | Automated control system | Manual Controls | Other Inst'l | Cooling Central | Existing | building | 1,680 | 17% | 0.2 | 15 | \$1,839 | 51% | 0.1 |
| FE-Penn Power | Automated control system | Manual Controls | Other Inst'l | Cooling Central | New | building | 1,680 | 17% | 0.2 | 15 | \$1,839 | 94% | 0.1 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Other Inst'l | Cooling Central | Existing | building | 1,680 | 7.2% | 0.07 | 15 | \$17,130 | 71% | 0.0 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Other Inst'l | Cooling Central | New | building | 1,680 | 2.4% | 0.02 | 15 | \$16,283 | 94% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|--|--|--------------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Chiller Tuneup/Diagnostics | No tuneup | Other Inst'l | Cooling Central | Existing | building | 1,680 | 8.0% | 0.08 | 10 | \$4,290 | 59% | 0.0 |
| FE-Penn Power | Chiller Tuneup/Diagnostics | No tuneup | Other Inst'l | Cooling Central | New | building | 1,680 | 8.0% | 0.08 | 10 | \$4,290 | 59% | 0.0 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Other Inst'l | Cooling Central | Existing | building | 1,680 | 1.4% | 0.04 | 15 | \$13 | 20% | 3.1 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Other Inst'l | Cooling Central | New | building | 1,680 | 1.4% | 0.04 | 15 | \$13 | 10% | 3.1 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Other Inst'l | Cooling Central | Existing | building | 1,680 | 7.0% | 0.07 | 15 | \$7,452 | 25% | 0.0 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Other Inst'l | Cooling Central | New | building | 1,680 | 7.0% | 0.07 | 15 | \$7,452 | 35% | 0.0 |
| FE-Penn Power | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | Early | ton | 4,330 | 24% | 0.4 | 15 | \$108,550 | 88% | 0.0 |
| FE-Penn Power | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | New | ton | 3,540 | 6.7% | 0.09 | 15 | \$12,927 | 88% | 0.0 |
| FE-Penn Power | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | ROB | ton | 3,540 | 6.7% | 0.09 | 15 | \$12,927 | 88% | 0.0 |
| FE-Penn Power | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | Early | ton | 6,471 | 23% | 0.6 | 15 | \$140,105 | 88% | 0.0 |
| FE-Penn Power | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | New | ton | 5,206 | 4.8% | 0.09 | 15 | \$9,336 | 88% | 0.0 |
| FE-Penn Power | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | ROB | ton | 5,206 | 4.8% | 0.09 | 15 | \$9,336 | 88% | 0.0 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | Early | ton | 52,971 | 26% | 5.0 | 15 | \$105,354 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | New | ton | 46,153 | 15% | 2.5 | 15 | \$30,530 | 88% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | ROB | ton | 46,153 | 15% | 2.5 | 15 | \$30,530 | 88% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | Early | ton | 79,336 | 23% | 6.6 | 15 | \$154,107 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | New | ton | 72,880 | 16% | 4.3 | 15 | \$27,646 | 88% | 0.3 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | ROB | ton | 79,336 | 23% | 6.6 | 15 | \$27,646 | 88% | 0.5 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | Early | ton | 131,762 | 23% | 10.9 | 15 | \$302,924 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | New | ton | 119,254 | 14% | 6.3 | 15 | \$115,432 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | ROB | ton | 131,762 | 23% | 10.9 | 15 | \$115,432 | 88% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | Early | ton | 158,114 | 23% | 13.1 | 15 | \$350,154 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | New | ton | 143,105 | 14% | 7.6 | 15 | \$120,406 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | ROB | ton | 158,114 | 23% | 13.1 | 15 | \$120,406 | 88% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | Early | ton | 35,047 | 29% | 3.8 | 15 | \$83,632 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | New | ton | 27,214 | 8.9% | 0.9 | 15 | \$40,211 | 88% | 0.0 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | ROB | ton | 35,047 | 29% | 3.8 | 15 | \$40,211 | 88% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | Early | ton | 60,220 | 35% | 7.7 | 15 | \$132,173 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | New | ton | 44,914 | 13% | 2.1 | 15 | \$39,556 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | ROB | ton | 44,914 | 13% | 2.1 | 15 | \$39,556 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | Early | ton | 100,542 | 39% | 14.4 | 15 | \$187,029 | 88% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | New | ton | 71,685 | 15% | 3.8 | 15 | \$33,554 | 88% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | ROB | ton | 100,542 | 39% | 14.4 | 15 | \$33,554 | 88% | 0.8 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | Early | ton | 17,593 | 30% | 1.9 | 15 | \$32,398 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | New | ton | 13,939 | 11% | 0.6 | 15 | \$7,188 | 88% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | ROB | ton | 17,593 | 30% | 1.9 | 15 | \$7,188 | 88% | 0.5 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Other Inst'l | Cooling Central | Existing | building | 1,680 | 1.0% | 0.01 | 10 | \$41,718 | 81% | 0.0 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Other Inst'l | Cooling Central | New | building | 1,680 | 1.1% | 0.01 | 10 | \$41,718 | 81% | 0.0 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Other Inst'l | Cooling Central | Existing | building | 1,680 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.1 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Other Inst'l | Cooling Central | New | building | 1,680 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.1 |
| FE-Penn Power | Re-Commissioning (Existing Construction) | No Re-Commissioning | Other Inst'l | Cooling Central | Existing | building | 1,680 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Other Inst'l | Cooling Central | Existing | building | 1,680 | 13% | 0.1 | 15 | \$3,285 | 26% | 0.1 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Other Inst'l | Cooling Central | New | building | 1,680 | 0.3% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| FE-Penn Power | <65k BTU/hr 14 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Other Inst'l | Cooling Unitary | Early | ton | 2,614 | 16% | 0.2 | 15 | \$1,545 | 29% | 0.2 |
| FE-Penn Power | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Other Inst'l | Cooling Unitary | New | ton | 2,368 | 7.1% | 0.09 | 15 | \$339 | 29% | 0.4 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|--|--------------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Other Inst'l | Cooling Unitary | ROB | ton | 2,368 | 7.1% | 0.09 | 15 | \$339 | 29% | 0.4 |
| FE-Penn Power | <65k BTU/hr 15 SEER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Other Inst'l | Cooling Unitary | Early | ton | 2,614 | 22% | 0.3 | 15 | \$1,821 | 30% | 0.3 |
| FE-Penn Power | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Other Inst'l | Cooling Unitary | New | ton | 2,368 | 13% | 0.2 | 15 | \$714 | 30% | 0.4 |
| FE-Penn Power | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Other Inst'l | Cooling Unitary | ROB | ton | 2,368 | 13% | 0.2 | 15 | \$714 | 30% | 0.4 |
| FE-Penn Power | <65k BTU/hr 16 SEER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Other Inst'l | Cooling Unitary | Early | ton | 2,614 | 26% | 0.4 | 15 | \$2,098 | 31% | 0.3 |
| FE-Penn Power | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Other Inst'l | Cooling Unitary | New | ton | 2,368 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.3 |
| FE-Penn Power | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Other Inst'l | Cooling Unitary | ROB | ton | 2,368 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.3 |
| FE-Penn Power | >760k min 10.2 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Other Inst'l | Cooling Unitary | Early | ton | 66,142 | 3.7% | 1.3 | 15 | \$68,066 | 56% | 0.0 |
| FE-Penn Power | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Other Inst'l | Cooling Unitary | New | ton | 66,990 | 4.9% | 1.7 | 15 | \$6,231 | 56% | 0.4 |
| FE-Penn Power | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Other Inst'l | Cooling Unitary | ROB | ton | 66,990 | 4.9% | 1.7 | 15 | \$6,231 | 56% | 0.4 |
| FE-Penn Power | 135-240k min 12 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Other Inst'l | Cooling Unitary | Early | ton | 16,274 | 18% | 1.6 | 15 | \$18,135 | 79% | 0.1 |
| FE-Penn Power | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Other Inst'l | Cooling Unitary | New | ton | 14,804 | 10.0% | 0.8 | 15 | \$1,948 | 79% | 0.6 |
| FE-Penn Power | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Other Inst'l | Cooling Unitary | ROB | ton | 14,804 | 10.0% | 0.8 | 15 | \$1,948 | 79% | 0.6 |
| FE-Penn Power | 240k-760k min 11 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Other Inst'l | Cooling Unitary | Early | ton | 43,515 | 9.0% | 2.1 | 15 | \$44,809 | 66% | 0.1 |
| FE-Penn Power | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Other Inst'l | Cooling Unitary | New | ton | 43,623 | 9.3% | 2.1 | 15 | \$4,813 | 66% | 0.7 |
| FE-Penn Power | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Other Inst'l | Cooling Unitary | ROB | ton | 43,623 | 9.3% | 2.1 | 15 | \$4,813 | 66% | 0.7 |
| FE-Penn Power | 65k-135k BTU/hr 12 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Other Inst'l | Cooling Unitary | Early | ton | 9,594 | 17% | 0.9 | 15 | \$10,946 | 86% | 0.1 |
| FE-Penn Power | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Other Inst'l | Cooling Unitary | New | ton | 8,550 | 6.7% | 0.3 | 15 | \$1,392 | 86% | 0.3 |
| FE-Penn Power | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Other Inst'l | Cooling Unitary | ROB | ton | 8,550 | 6.7% | 0.3 | 15 | \$1,392 | 86% | 0.3 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Other Inst'l | Cooling Unitary | Existing | building | 20,040 | 7.1% | 0.07 | 6 | \$12,330 | 82% | 0.0 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Other Inst'l | Cooling Unitary | New | building | 20,040 | 7.0% | 0.07 | 6 | \$12,330 | 82% | 0.0 |
| FE-Penn Power | Adding window shade film | No shade film | Other Inst'l | Cooling Unitary | Existing | building | 20,040 | 1.3% | 0.4 | 10 | \$244 | 12% | 1.3 |
| FE-Penn Power | Adding window shade film | No shade film | Other Inst'l | Cooling Unitary | New | building | 20,040 | 1.3% | 0.4 | 10 | \$244 | 13% | 1.3 |
| FE-Penn Power | Adding window shade screen | No shade screen | Other Inst'l | Cooling Unitary | Existing | building | 20,040 | 1.1% | 0.01 | 10 | \$94 | 12% | 0.8 |
| FE-Penn Power | Adding window shade screen | No shade screen | Other Inst'l | Cooling Unitary | New | building | 20,040 | 1.1% | 0.01 | 10 | \$94 | 13% | 0.8 |
| FE-Penn Power | Automated control system | Manual Controls | Other Inst'l | Cooling Unitary | Existing | building | 20,040 | 17% | 0.2 | 15 | \$21,939 | 51% | 0.1 |
| FE-Penn Power | Automated control system | Manual Controls | Other Inst'l | Cooling Unitary | New | building | 20,040 | 17% | 0.2 | 15 | \$21,939 | 94% | 0.1 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Other Inst'l | Cooling Unitary | Existing | building | 20,040 | 7.2% | 0.07 | 15 | \$17,130 | 71% | 0.0 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Other Inst'l | Cooling Unitary | New | building | 20,040 | 2.4% | 0.02 | 15 | \$16,283 | 94% | 0.0 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Other Inst'l | Cooling Unitary | Existing | building | 20,040 | 1.4% | 0.04 | 15 | \$159 | 20% | 1.0 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Other Inst'l | Cooling Unitary | New | building | 20,040 | 1.4% | 0.04 | 15 | \$159 | 10% | 1.0 |
| FE-Penn Power | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Other Inst'l | Cooling Unitary | Existing | building | 10,952 | 13% | 0.1 | 1 | \$105 | 73% | 0.8 |
| FE-Penn Power | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Other Inst'l | Cooling Unitary | New | building | 10,952 | 13% | 0.1 | 1 | \$105 | 73% | 0.8 |
| FE-Penn Power | ECM Motors for split systems | Std Shaded Pole Motor | Other Inst'l | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.4 |
| FE-Penn Power | ECM Motors for split systems | Std Shaded Pole Motor | Other Inst'l | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.4 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Other Inst'l | Cooling Unitary | Existing | building | 20,040 | 7.1% | 0.07 | 15 | \$88,894 | 25% | 0.0 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Other Inst'l | Cooling Unitary | New | building | 20,040 | 7.1% | 0.07 | 15 | \$88,894 | 35% | 0.0 |
| FE-Penn Power | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Other Inst'l | Cooling Unitary | Existing | building | 20,040 | 5.0% | 0.05 | 5 | \$225 | 59% | 1.0 |
| FE-Penn Power | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Other Inst'l | Cooling Unitary | Existing | building | 20,040 | 1.3% | 0.09 | 5 | \$225 | 51% | 0.4 |
| FE-Penn Power | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Other Inst'l | Cooling Unitary | New | building | 20,040 | 1.1% | 0.08 | 5 | \$135 | 51% | 0.6 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Other Inst'l | Cooling Unitary | Existing | building | 20,040 | 1.1% | 0.01 | 10 | \$44,835 | 86% | 0.0 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Other Inst'l | Cooling Unitary | New | building | 20,040 | 1.1% | 0.01 | 10 | \$44,835 | 86% | 0.0 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) | Other Inst'l | Cooling Unitary | Existing | building | 20,040 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.5 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Other Inst'l | Cooling Unitary | New | building | 20,040 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.9 |
| FE-Penn Power | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Other Inst'l | Cooling Unitary | Early | unit | 1,529 | 19% | 0.1 | 15 | \$849 | 85% | 0.3 |
| FE-Penn Power | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Other Inst'l | Cooling Unitary | New | unit | 1,544 | 20% | 0.1 | 15 | \$356 | 85% | 0.6 |
| FE-Penn Power | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Other Inst'l | Cooling Unitary | ROB | unit | 1,544 | 20% | 0.1 | 15 | \$356 | 85% | 0.6 |
| FE-Penn Power | Re-Commissioning (Existing Construction) | No Re-Commissioning | Other Inst'l | Cooling Unitary | Existing | building | 20,040 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.1 |
| FE-Penn Power | Room AC (w/ louvered sides) | Existing efficiency Room AC in Pennsylvania (2000 Federal Standards) | Other Inst'l | Cooling Unitary | Early | ton | 1,234 | 13% | 0.06 | 9 | \$348 | 82% | 0.2 |
| FE-Penn Power | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Other Inst'l | Cooling Unitary | New | ton | 1,119 | 4.5% | 0.02 | 9 | \$17 | 82% | 1.5 |
| FE-Penn Power | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Other Inst'l | Cooling Unitary | ROB | ton | 1,119 | 4.5% | 0.02 | 9 | \$17 | 82% | 1.5 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Other Inst'l | Cooling Unitary | Existing | building | 20,040 | 13% | 0.1 | 15 | \$3,285 | 26% | 0.4 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Other Inst'l | Cooling Unitary | New | building | 20,040 | 0.3% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| FE-Penn Power | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Other Inst'l | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 0.9 |
| FE-Penn Power | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Other Inst'l | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.1 |
| FE-Penn Power | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Other Inst'l | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.1 |
| FE-Penn Power | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Other Inst'l | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 0% | 0.1 |
| FE-Penn Power | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Other Inst'l | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-Penn Power | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Other Inst'l | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-Penn Power | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Other Inst'l | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 75% | 0.2 |
| FE-Penn Power | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Other Inst'l | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 75% | 0.2 |
| FE-Penn Power | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Other Inst'l | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|--|---|--------------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Other Inst'l | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 1.7 |
| FE-Penn Power | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Other Inst'l | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.3 |
| FE-Penn Power | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Other Inst'l | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 1.7 |
| FE-Penn Power | Photocell Controls (Outdoor) | Lighting w/ No Controls | Other Inst'l | Ext. Lighting | Existing | building | 561 | 28% | 0.3 | 8 | \$5,088 | 88% | 0.0 |
| FE-Penn Power | Photocell Controls (Outdoor) | Lighting w/ No Controls | Other Inst'l | Ext. Lighting | New | building | 561 | 28% | 0.3 | 8 | \$5,088 | 0% | 0.0 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Other Inst'l | Heat Pump | Existing | building | 1,851 | 6.9% | 0.07 | 6 | \$12,330 | 82% | 0.0 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Other Inst'l | Heat Pump | New | building | 1,851 | 6.9% | 0.07 | 6 | \$12,330 | 82% | 0.0 |
| FE-Penn Power | Adding window shade film | No shade film | Other Inst'l | Heat Pump | Existing | building | 1,851 | 3.9% | 0.4 | 10 | \$23 | 12% | 11.1 |
| FE-Penn Power | Adding window shade film | No shade film | Other Inst'l | Heat Pump | New | building | 1,851 | 3.9% | 0.4 | 10 | \$23 | 12% | 11.1 |
| FE-Penn Power | Adding window shade screen | No shade screen | Other Inst'l | Heat Pump | Existing | building | 1,851 | 0.3% | 0.01 | 10 | \$2.9 | 12% | 2.8 |
| FE-Penn Power | Adding window shade screen | No shade screen | Other Inst'l | Heat Pump | New | building | 1,851 | 0.3% | 0.01 | 10 | \$2.9 | 12% | 2.8 |
| FE-Penn Power | Automated control system | Manual Controls | Other Inst'l | Heat Pump | Existing | building | 1,851 | 17% | 0.2 | 15 | \$2,026 | 51% | 0.1 |
| FE-Penn Power | Automated control system | Manual Controls | Other Inst'l | Heat Pump | New | building | 1,851 | 17% | 0.2 | 15 | \$2,026 | 94% | 0.1 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Other Inst'l | Heat Pump | Existing | building | 1,851 | 7.2% | 0.07 | 15 | \$17,130 | 71% | 0.0 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Other Inst'l | Heat Pump | New | building | 1,851 | 2.4% | 0.02 | 15 | \$16,283 | 94% | 0.0 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Other Inst'l | Heat Pump | Existing | building | 1,851 | 4.0% | 0.04 | 15 | \$15 | 12% | 4.1 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Other Inst'l | Heat Pump | New | building | 1,851 | 4.0% | 0.04 | 15 | \$15 | 6% | 4.1 |
| FE-Penn Power | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Other Inst'l | Heat Pump | Early | heat pump | 2,268 | 12% | 0.02 | 15 | \$4,070 | 83% | 0.0 |
| FE-Penn Power | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Other Inst'l | Heat Pump | New | heat pump | 2,162 | 7.8% | 0.01 | 15 | \$1,097 | 83% | 0.1 |
| FE-Penn Power | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Other Inst'l | Heat Pump | ROB | heat pump | 2,162 | 7.8% | 0.01 | 15 | \$1,097 | 83% | 0.1 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Other Inst'l | Heat Pump | Existing | building | 1,851 | 7.0% | 0.07 | 15 | \$8,209 | 25% | 0.0 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Other Inst'l | Heat Pump | New | building | 1,851 | 7.0% | 0.07 | 15 | \$8,209 | 35% | 0.0 |
| FE-Penn Power | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Other Inst'l | Heat Pump | Early | heat pump | 23,875 | 16% | 0.3 | 15 | \$91,117 | 19% | 0.0 |
| FE-Penn Power | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Other Inst'l | Heat Pump | New | heat pump | 22,983 | 13% | 0.3 | 15 | \$33,927 | 19% | 0.0 |
| FE-Penn Power | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Other Inst'l | Heat Pump | ROB | heat pump | 22,983 | 13% | 0.3 | 15 | \$33,927 | 19% | 0.0 |
| FE-Penn Power | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Other Inst'l | Heat Pump | Early | heat pump | 23,875 | 16% | 0.3 | 15 | \$58,356 | 19% | 0.0 |
| FE-Penn Power | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Other Inst'l | Heat Pump | New | heat pump | 22,983 | 13% | 0.3 | 15 | \$1,167 | 19% | 1.2 |
| FE-Penn Power | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Other Inst'l | Heat Pump | ROB | heat pump | 22,983 | 13% | 0.3 | 15 | \$1,167 | 19% | 1.2 |
| FE-Penn Power | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Other Inst'l | Heat Pump | Early | heat pump | 6,164 | 17% | 0.09 | 12 | \$4,298 | 81% | 0.1 |
| FE-Penn Power | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Other Inst'l | Heat Pump | Early | heat pump | 6,164 | 25% | 0.1 | 12 | \$5,883 | 81% | 0.1 |
| FE-Penn Power | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Other Inst'l | Heat Pump | New | heat pump | 5,870 | 12% | 0.06 | 12 | \$852 | 81% | 0.3 |
| FE-Penn Power | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Other Inst'l | Heat Pump | New | heat pump | 5,870 | 22% | 0.1 | 12 | \$2,437 | 81% | 0.2 |
| FE-Penn Power | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Other Inst'l | Heat Pump | ROB | heat pump | 5,870 | 12% | 0.06 | 12 | \$852 | 81% | 0.3 |
| FE-Penn Power | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Other Inst'l | Heat Pump | ROB | heat pump | 5,870 | 22% | 0.1 | 12 | \$2,437 | 81% | 0.2 |
| FE-Penn Power | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Other Inst'l | Heat Pump | Existing | building | 1,851 | 5.0% | 0.01 | 5 | \$90 | 51% | 0.2 |
| FE-Penn Power | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Other Inst'l | Heat Pump | New | building | 1,851 | 5.0% | 0.01 | 5 | \$90 | 51% | 0.2 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Other Inst'l | Heat Pump | Existing | building | 1,851 | 1.0% | 0.01 | 10 | \$39,918 | 81% | 0.0 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Other Inst'l | Heat Pump | New | building | 1,851 | 1.0% | 0.01 | 10 | \$39,918 | 81% | 0.0 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Other Inst'l | Heat Pump | Existing | building | 1,851 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.1 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Other Inst'l | Heat Pump | New | building | 1,851 | 2.1% | 0.02 | 11 | \$146 | 49% | 0.2 |
| FE-Penn Power | Re-Commissioning (Existing Construction) | No Re-Commissioning | Other Inst'l | Heat Pump | Existing | building | 1,851 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Other Inst'l | Heat Pump | Existing | building | 1,851 | 13% | 0.1 | 15 | \$3,285 | 26% | 0.1 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Other Inst'l | Heat Pump | New | building | 1,851 | 0.3% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| FE-Penn Power | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Other Inst'l | Heat Pump | Early | heat pump | 9,861 | 34% | 0.3 | 15 | \$35,347 | 28% | 0.0 |
| FE-Penn Power | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Other Inst'l | Heat Pump | New | heat pump | 9,355 | 31% | 0.2 | 15 | \$15,739 | 28% | 0.1 |
| FE-Penn Power | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Other Inst'l | Heat Pump | ROB | heat pump | 9,355 | 31% | 0.2 | 15 | \$15,739 | 28% | 0.1 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 299 | 9.6% | 0.01 | 13 | \$850 | 39% | 0.0 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Other Inst'l | High Bay Lighting | Early | Fixture | 299 | 9.5% | 0.01 | 13 | \$850 | 28% | 0.0 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 461 | 41% | 0.04 | 13 | \$850 | 36% | 0.1 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 227 | 9.6% | 0.00 | 13 | \$372 | 39% | 0.0 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 211 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 350 | 41% | 0.03 | 13 | \$397 | 36% | 0.2 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 299 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.0 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 278 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 461 | 41% | 0.04 | 13 | \$397 | 36% | 0.3 |
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 580 | 19% | 0.02 | 13 | \$851 | 38% | 0.1 |
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Other Inst'l | High Bay Lighting | Early | Fixture | 587 | 20% | 0.02 | 13 | \$851 | 38% | 0.1 |
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 1,708 | 73% | 0.2 | 13 | \$851 | 38% | 0.8 |
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 441 | 19% | 0.02 | 13 | \$372 | 38% | 0.1 |
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 1,298 | 73% | 0.2 | 13 | \$383 | 38% | 1.3 |
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 580 | 19% | 0.02 | 13 | \$372 | 38% | 0.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|---|--------------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 1,708 | 73% | 0.2 | 13 | \$383 | 38% | 1.7 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 580 | 25% | 0.03 | 13 | \$554 | 29% | 0.1 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Other Inst'l | High Bay Lighting | Early | Fixture | 569 | 23% | 0.03 | 13 | \$554 | 28% | 0.1 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 1,708 | 74% | 0.2 | 13 | \$554 | 36% | 1.2 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 441 | 25% | 0.02 | 13 | \$75 | 29% | 0.8 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 1,298 | 74% | 0.2 | 13 | \$86 | 36% | 5.9 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 580 | 25% | 0.03 | 13 | \$75 | 29% | 1.0 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 1,708 | 74% | 0.2 | 13 | \$86 | 36% | 7.8 |
| FE-Penn Power | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Other Inst'l | High Bay Lighting | Early | Fixture | 151 | 0.2% | 0.00 | 13 | \$835 | 38% | 0.0 |
| FE-Penn Power | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 326 | 54% | 0.03 | 13 | \$835 | 38% | 0.1 |
| FE-Penn Power | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 248 | 54% | 0.03 | 13 | \$382 | 38% | 0.2 |
| FE-Penn Power | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 326 | 54% | 0.03 | 13 | \$382 | 38% | 0.2 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 739 | 18% | 0.03 | 13 | \$487 | 25% | 0.1 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Other Inst'l | High Bay Lighting | Early | Fixture | 773 | 22% | 0.03 | 13 | \$487 | 28% | 0.2 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 1,708 | 65% | 0.2 | 13 | \$487 | 36% | 1.2 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 562 | 18% | 0.02 | 13 | \$16 | 25% | 3.3 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 1,298 | 65% | 0.2 | 13 | \$18 | 36% | 24.0 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 739 | 18% | 0.03 | 13 | \$16 | 25% | 4.4 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 1,708 | 65% | 0.2 | 13 | \$18 | 36% | 31.5 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 739 | 1.5% | 0.00 | 13 | \$557 | 19% | 0.0 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Other Inst'l | High Bay Lighting | Early | Fixture | 761 | 4.3% | 0.01 | 13 | \$557 | 19% | 0.0 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 1,708 | 57% | 0.2 | 13 | \$557 | 19% | 0.9 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 562 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 1,298 | 57% | 0.1 | 13 | \$88 | 19% | 4.4 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 739 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 1,708 | 57% | 0.2 | 13 | \$88 | 19% | 5.8 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 314 | 29% | 0.01 | 13 | \$492 | 71% | 0.1 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 262 | 15% | 0.01 | 13 | \$492 | 95% | 0.0 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 390 | 43% | 0.02 | 13 | \$492 | 95% | 0.2 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 361 | 38% | 0.02 | 13 | \$492 | 95% | 0.1 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 199 | 15% | 0.00 | 13 | \$25 | 95% | 0.6 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 296 | 43% | 0.02 | 13 | \$51 | 95% | 1.2 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 262 | 15% | 0.01 | 13 | \$25 | 95% | 0.8 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 390 | 43% | 0.02 | 13 | \$51 | 95% | 1.6 |
| FE-Penn Power | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Other Inst'l | High Bay Lighting | Early | lamp | 86 | 16% | 0.00 | 12 | \$7.7 | 99% | 0.9 |
| FE-Penn Power | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Other Inst'l | High Bay Lighting | New | lamp | 51 | 13% | 0.00 | 12 | \$1.6 | 91% | 2.1 |
| FE-Penn Power | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Other Inst'l | High Bay Lighting | ROB | lamp | 82 | 13% | 0.00 | 12 | \$1.6 | 91% | 3.4 |
| FE-Penn Power | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 1,748 | 23% | 0.08 | 13 | \$613 | 5% | 0.3 |
| FE-Penn Power | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Other Inst'l | High Bay Lighting | Early | Fixture | 1,373 | 1.6% | 0.00 | 13 | \$613 | 28% | 0.0 |
| FE-Penn Power | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 3,417 | 60% | 0.4 | 13 | \$613 | 18% | 1.8 |
| FE-Penn Power | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 1,329 | 23% | 0.06 | 13 | \$96 | 5% | 1.6 |
| FE-Penn Power | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 1,748 | 23% | 0.08 | 13 | \$96 | 5% | 2.2 |
| FE-Penn Power | Auto Off Time Switch | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | Existing | building | 933 | 24% | 0.2 | 8 | \$1,034 | 13% | 0.2 |
| FE-Penn Power | Auto Off Time Switch | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | New | building | 933 | 6.9% | 0.07 | 8 | \$1,034 | 0% | 0.1 |
| FE-Penn Power | Central Lighting Control System | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | Existing | building | 933 | 38% | 0.4 | 8 | \$1,034 | 13% | 0.3 |
| FE-Penn Power | Central Lighting Control System | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | New | building | 933 | 14% | 0.1 | 8 | \$1,034 | 13% | 0.1 |
| FE-Penn Power | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Other Inst'l | High Bay Lighting | New | building | 933 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.0 |
| FE-Penn Power | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Other Inst'l | High Bay Lighting | New | building | 933 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |
| FE-Penn Power | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Other Inst'l | High Bay Lighting | New | building | 933 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| FE-Penn Power | Indoor Daylight Sensors | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | Existing | building | 933 | 28% | 0.3 | 8 | \$5,088 | 13% | 0.0 |
| FE-Penn Power | Indoor Daylight Sensors | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | New | building | 933 | 4.0% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| FE-Penn Power | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 1,748 | 92% | 0.3 | 13 | \$1,916 | 95% | 0.4 |
| FE-Penn Power | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 3,417 | 96% | 0.6 | 13 | \$1,916 | 95% | 0.9 |
| FE-Penn Power | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 1,329 | 92% | 0.2 | 13 | \$1,468 | 95% | 0.4 |
| FE-Penn Power | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 2,597 | 96% | 0.5 | 13 | \$1,149 | 95% | 1.1 |
| FE-Penn Power | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 1,748 | 92% | 0.3 | 13 | \$1,468 | 95% | 0.6 |
| FE-Penn Power | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 3,417 | 96% | 0.6 | 13 | \$1,149 | 95% | 1.5 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 580 | 67% | 0.07 | 13 | \$960 | 95% | 0.2 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 1,708 | 89% | 0.3 | 13 | \$960 | 95% | 0.8 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 469 | 59% | 0.05 | 13 | \$960 | 95% | 0.2 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 441 | 67% | 0.06 | 13 | \$480 | 95% | 0.3 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 1,298 | 89% | 0.2 | 13 | \$491 | 95% | 1.2 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 356 | 59% | 0.04 | 13 | \$406 | 95% | 0.3 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 580 | 67% | 0.07 | 13 | \$480 | 95% | 0.4 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 1,708 | 89% | 0.3 | 13 | \$491 | 95% | 1.6 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 469 | 59% | 0.05 | 13 | \$406 | 95% | 0.4 |
| FE-Penn Power | Occupancy Sensor | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | Existing | building | 933 | 24% | 0.2 | 8 | \$1,558 | 11% | 0.1 |
| FE-Penn Power | Occupancy Sensor | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | New | building | 933 | 6.9% | 0.07 | 8 | \$1,558 | 0% | 0.0 |
| FE-Penn Power | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | Existing | building | 933 | 28% | 0.3 | 8 | \$5,088 | 11% | 0.0 |
| FE-Penn Power | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | New | building | 933 | 4.0% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| FE-Penn Power | Time Clock Control | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | Existing | building | 933 | 28% | 0.3 | 8 | \$1,034 | 13% | 0.2 |
| FE-Penn Power | Time Clock Control | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | New | building | 933 | 4.0% | 0.04 | 8 | \$1,034 | 0% | 0.0 |
| FE-Penn Power | Auto Off Time Switch | Lighting w/ No Controls | Other Inst'l | Lin. Fluor. Lighting | Existing | building | 18,224 | 24% | 0.2 | 8 | \$1,034 | 13% | 1.3 |
| FE-Penn Power | Auto Off Time Switch | Lighting w/ No Controls | Other Inst'l | Lin. Fluor. Lighting | New | building | 18,224 | 7.0% | 0.07 | 8 | \$1,034 | 0% | 0.4 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|--|--------------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Central Lighting Control System | Lighting w/ No Controls | Other Inst'l | Lin. Fluor. Lighting | Existing | building | 18,224 | 38% | 0.4 | 8 | \$1,034 | 12% | 2.0 |
| FE-Penn Power | Central Lighting Control System | Lighting w/ No Controls | Other Inst'l | Lin. Fluor. Lighting | New | building | 18,224 | 14% | 0.1 | 8 | \$1,034 | 12% | 0.8 |
| FE-Penn Power | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Other Inst'l | Lin. Fluor. Lighting | New | building | 18,224 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.0 |
| FE-Penn Power | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Other Inst'l | Lin. Fluor. Lighting | New | building | 18,224 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |
| FE-Penn Power | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Other Inst'l | Lin. Fluor. Lighting | New | building | 18,224 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| FE-Penn Power | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Other Inst'l | Lin. Fluor. Lighting | Early | Lamp | 172 | 38% | 0.01 | 12 | \$7.3 | 94% | 4.5 |
| FE-Penn Power | Indoor Daylight Sensors | Lighting w/ No Controls | Other Inst'l | Lin. Fluor. Lighting | Existing | building | 18,224 | 28% | 0.3 | 8 | \$5,088 | 13% | 0.3 |
| FE-Penn Power | Indoor Daylight Sensors | Lighting w/ No Controls | Other Inst'l | Lin. Fluor. Lighting | New | building | 18,224 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | Early | Lamp | 38 | 19% | 0.00 | 15 | \$35 | 94% | 0.1 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 40W T12 Lamp, Magnetic Ballast | Other Inst'l | Lin. Fluor. Lighting | Early | Lamp | 83 | 63% | 0.01 | 15 | \$35 | 94% | 0.8 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | Early | Lamp | 46 | 34% | 0.00 | 15 | \$35 | 94% | 0.3 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | Early | Lamp | 45 | 32% | 0.00 | 15 | \$35 | 94% | 0.2 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | New | Lamp | 29 | 19% | 0.00 | 15 | \$28 | 94% | 0.1 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | New | Lamp | 34 | 32% | 0.00 | 15 | \$29 | 94% | 0.2 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | New | Lamp | 35 | 34% | 0.00 | 15 | \$22 | 94% | 0.3 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | New | Lamp | 34 | 32% | 0.00 | 15 | \$29 | 94% | 0.2 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | ROB | Lamp | 38 | 19% | 0.00 | 15 | \$28 | 94% | 0.1 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | ROB | Lamp | 45 | 32% | 0.00 | 15 | \$29 | 94% | 0.3 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | ROB | Lamp | 46 | 34% | 0.00 | 15 | \$22 | 94% | 0.4 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | ROB | Lamp | 45 | 32% | 0.00 | 15 | \$29 | 94% | 0.3 |
| FE-Penn Power | Occupancy Sensor | Lighting w/ No Controls | Other Inst'l | Lin. Fluor. Lighting | Existing | building | 18,224 | 24% | 0.2 | 8 | \$1,558 | 12% | 0.9 |
| FE-Penn Power | Occupancy Sensor | Lighting w/ No Controls | Other Inst'l | Lin. Fluor. Lighting | New | building | 18,224 | 7.0% | 0.07 | 8 | \$1,558 | 0% | 0.2 |
| FE-Penn Power | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Other Inst'l | Lin. Fluor. Lighting | Existing | building | 18,224 | 28% | 0.3 | 8 | \$5,088 | 11% | 0.3 |
| FE-Penn Power | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Other Inst'l | Lin. Fluor. Lighting | New | building | 18,224 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 40W T12 w/ Magnetic Ballast | Other Inst'l | Lin. Fluor. Lighting | Early | Lamp | 172 | 54% | 0.02 | 12 | \$9.1 | 94% | 5.1 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | Early | Lamp | 110 | 28% | 0.01 | 12 | \$9.1 | 24% | 1.7 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | Early | Lamp | 107 | 26% | 0.01 | 12 | \$9.1 | 94% | 1.5 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | New | Lamp | 81 | 26% | 0.00 | 12 | \$2.5 | 94% | 4.2 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | New | Lamp | 81 | 26% | 0.00 | 12 | \$2.5 | 94% | 4.2 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | New | Lamp | 84 | 28% | 0.00 | 12 | \$2.5 | 24% | 4.7 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | New | Lamp | 81 | 26% | 0.00 | 12 | \$2.5 | 94% | 4.2 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | ROB | Lamp | 107 | 26% | 0.01 | 12 | \$2.5 | 94% | 5.5 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | ROB | Lamp | 107 | 26% | 0.01 | 12 | \$2.5 | 94% | 5.5 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | ROB | Lamp | 110 | 28% | 0.01 | 12 | \$2.5 | 24% | 6.2 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | ROB | Lamp | 107 | 26% | 0.01 | 12 | \$2.5 | 94% | 5.5 |
| FE-Penn Power | T8 Lamp (any length) Electronic Ballast | Standard T12 lamp (any length) | Other Inst'l | Lin. Fluor. Lighting | Early | Lamp | 202 | 42% | 0.02 | 12 | \$14 | 94% | 3.1 |
| FE-Penn Power | Time Clock Control | Lighting w/ No Controls | Other Inst'l | Lin. Fluor. Lighting | Existing | building | 18,224 | 28% | 0.3 | 8 | \$1,034 | 14% | 1.5 |
| FE-Penn Power | Time Clock Control | Lighting w/ No Controls | Other Inst'l | Lin. Fluor. Lighting | New | building | 18,224 | 4.1% | 0.04 | 8 | \$1,034 | 0% | 0.2 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | Early | motor | 3,449 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | Early | motor | 3,449 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | Early | motor | 3,449 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | Early | motor | 3,449 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | Early | motor | 3,449 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | New | motor | 3,344 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | New | motor | 3,344 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | New | motor | 3,344 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | ROB | motor | 3,344 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | ROB | motor | 3,344 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | ROB | motor | 3,344 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | ROB | motor | 3,344 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-Penn Power | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | Early | motor | 5,086 | 3.1% | 0.02 | 15 | \$402 | 76% | 0.2 |
| FE-Penn Power | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | Early | motor | 5,086 | 3.1% | 0.02 | 15 | \$402 | 76% | 0.2 |
| FE-Penn Power | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | Early | motor | 5,086 | 3.0% | 0.02 | 15 | \$402 | 76% | 0.2 |
| FE-Penn Power | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | Early | motor | 5,086 | 3.0% | 0.02 | 15 | \$402 | 76% | 0.2 |
| FE-Penn Power | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | New | motor | 4,958 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.2 |
| FE-Penn Power | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | New | motor | 4,958 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.2 |
| FE-Penn Power | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | New | motor | 4,958 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.2 |
| FE-Penn Power | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | New | motor | 4,958 | 0.5% | 0.00 | 15 | \$60 | 76% | 0.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|--|--------------|---------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | Early | motor | 24,141 | 2.9% | 0.09 | 15 | \$802 | 83% | 0.4 |
| FE-Penn Power | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | Early | motor | 24,141 | 2.9% | 0.09 | 15 | \$802 | 83% | 0.4 |
| FE-Penn Power | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | Early | motor | 24,141 | 2.9% | 0.09 | 15 | \$802 | 83% | 0.4 |
| FE-Penn Power | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | Early | motor | 24,141 | 2.9% | 0.09 | 15 | \$802 | 83% | 0.4 |
| FE-Penn Power | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | New | motor | 23,564 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.5 |
| FE-Penn Power | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | New | motor | 23,564 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.5 |
| FE-Penn Power | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | New | motor | 23,564 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.5 |
| FE-Penn Power | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | ROB | motor | 23,564 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.5 |
| FE-Penn Power | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | ROB | motor | 23,564 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.5 |
| FE-Penn Power | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | ROB | motor | 23,564 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.5 |
| FE-Penn Power | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | ROB | motor | 23,564 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.5 |
| FE-Penn Power | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | ROB | motor | 23,564 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.5 |
| FE-Penn Power | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | Early | motor | 227,590 | 1.3% | 0.4 | 15 | \$3,955 | 61% | 0.4 |
| FE-Penn Power | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | Early | motor | 227,590 | 1.3% | 0.4 | 15 | \$3,955 | 61% | 0.4 |
| FE-Penn Power | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | Early | motor | 227,590 | 1.3% | 0.4 | 15 | \$3,955 | 61% | 0.4 |
| FE-Penn Power | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | Early | motor | 227,590 | 1.3% | 0.4 | 15 | \$3,955 | 61% | 0.4 |
| FE-Penn Power | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | New | motor | 225,714 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.1 |
| FE-Penn Power | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | New | motor | 225,714 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.1 |
| FE-Penn Power | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | New | motor | 225,714 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.1 |
| FE-Penn Power | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | New | motor | 225,714 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.0 |
| FE-Penn Power | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | ROB | motor | 225,714 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.1 |
| FE-Penn Power | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | ROB | motor | 225,714 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.1 |
| FE-Penn Power | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | ROB | motor | 225,714 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.1 |
| FE-Penn Power | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | ROB | motor | 225,714 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.0 |
| FE-Penn Power | Downsizing motor during retrofit | Larger hp standard motor | Other Inst'l | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 17.6 |
| FE-Penn Power | Downsizing motor during retrofit | Larger hp standard motor | Other Inst'l | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 18.0 |
| FE-Penn Power | Downsizing motor during retrofit | Larger hp standard motor | Other Inst'l | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 18.3 |
| FE-Penn Power | Downsizing motor during retrofit | Larger hp standard motor | Other Inst'l | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 18.8 |
| FE-Penn Power | Downsizing motor during retrofit | Larger hp standard motor | Other Inst'l | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 19.2 |
| FE-Penn Power | Downsizing motor during retrofit | Larger hp standard motor | Other Inst'l | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 17.5 |
| FE-Penn Power | Downsizing motor during retrofit | Larger hp standard motor | Other Inst'l | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 17.9 |
| FE-Penn Power | Downsizing motor during retrofit | Larger hp standard motor | Other Inst'l | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 18.5 |
| FE-Penn Power | Downsizing motor during retrofit | Larger hp standard motor | Other Inst'l | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 18.6 |
| FE-Penn Power | Downsizing motor during retrofit | Larger hp standard motor | Other Inst'l | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 19.1 |
| FE-Penn Power | Escalator Motor Controller | Constant power control | Other Inst'l | Motors | New | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 22% | 4.8 |
| FE-Penn Power | Escalator Motor Controller | Constant power control | Other Inst'l | Motors | ROB | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 22% | 4.8 |
| FE-Penn Power | Variable Speed Drive Control, 15HP | Existing Motors w/out VSD Drive | Other Inst'l | Motors | Early | motor | 47,127 | 70% | 4.4 | 15 | \$731 | 86% | 23.1 |
| FE-Penn Power | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Other Inst'l | Motors | New | motor | 46,114 | 71% | 4.4 | 15 | \$731 | 86% | 23.1 |
| FE-Penn Power | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Other Inst'l | Motors | ROB | motor | 46,114 | 71% | 4.4 | 15 | \$731 | 86% | 23.1 |
| FE-Penn Power | Variable Speed Drive Control, 40HP | Existing Motors w/out VSD Drive | Other Inst'l | Motors | Early | motor | 122,970 | 71% | 11.5 | 15 | \$4,666 | 86% | 9.5 |
| FE-Penn Power | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Other Inst'l | Motors | New | motor | 121,532 | 72% | 11.5 | 15 | \$4,666 | 86% | 9.5 |
| FE-Penn Power | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Other Inst'l | Motors | ROB | motor | 121,532 | 72% | 11.5 | 15 | \$4,666 | 86% | 9.5 |
| FE-Penn Power | Variable Speed Drive Control, 5HP | Existing Motors w/out VFD Drive | Other Inst'l | Motors | Early | motor | 16,337 | 70% | 1.5 | 15 | \$2,243 | 86% | 2.6 |
| FE-Penn Power | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Other Inst'l | Motors | New | motor | 15,972 | 72% | 1.5 | 15 | \$2,243 | 86% | 2.6 |
| FE-Penn Power | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Other Inst'l | Motors | ROB | motor | 15,972 | 72% | 1.5 | 15 | \$2,243 | 86% | 2.6 |
| FE-Penn Power | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Other Inst'l | Motors | Early | motor | 5,707 | 20% | 0.1 | 15 | \$268 | 13% | 2.1 |
| FE-Penn Power | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Other Inst'l | Motors | New | motor | 5,707 | 20% | 0.1 | 15 | \$268 | 13% | 2.1 |
| FE-Penn Power | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Other Inst'l | Motors | ROB | motor | 5,707 | 20% | 0.1 | 15 | \$268 | 13% | 2.1 |
| FE-Penn Power | VFD on Chilled Water Pump | Motor w/out VFD Drive | Other Inst'l | Motors | Early | motor | 15,992 | 54% | 2.7 | 15 | \$2,903 | 86% | 1.9 |
| FE-Penn Power | VFD on Chilled Water Pump | Motor w/out VFD Drive | Other Inst'l | Motors | New | motor | 15,693 | 55% | 2.7 | 15 | \$2,843 | 86% | 2.0 |
| FE-Penn Power | VFD on Chilled Water Pump | Motor w/out VFD Drive | Other Inst'l | Motors | ROB | motor | 15,693 | 55% | 2.7 | 15 | \$2,843 | 86% | 2.0 |
| FE-Penn Power | VFD on Condenser Water Pump | Motor w/out VFD Drive | Other Inst'l | Motors | Early | motor | 15,905 | 32% | 3.2 | 15 | \$2,903 | 86% | 1.6 |
| FE-Penn Power | VFD on Condenser Water Pump | Motor w/out VFD Drive | Other Inst'l | Motors | New | motor | 15,607 | 33% | 3.1 | 15 | \$2,843 | 86% | 1.6 |
| FE-Penn Power | VFD on Condenser Water Pump | Motor w/out VFD Drive | Other Inst'l | Motors | ROB | motor | 15,607 | 33% | 3.1 | 15 | \$2,843 | 86% | 1.6 |
| FE-Penn Power | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Other Inst'l | Motors | Early | motor | 29,846 | 56% | 0.00 | 15 | \$2,903 | 86% | 2.3 |
| FE-Penn Power | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Other Inst'l | Motors | New | motor | 29,288 | 57% | 0.00 | 15 | \$2,843 | 86% | 2.4 |
| FE-Penn Power | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Other Inst'l | Motors | ROB | motor | 29,288 | 57% | 0.00 | 15 | \$2,843 | 86% | 2.4 |
| FE-Penn Power | VFD on HVAC Fan | Motor w/out VFD | Other Inst'l | Motors | Early | motor | 15,992 | 70% | 3.4 | 15 | \$2,903 | 86% | 2.5 |
| FE-Penn Power | VFD on HVAC Fan | Motor w/out VFD | Other Inst'l | Motors | New | motor | 15,693 | 72% | 3.3 | 15 | \$2,843 | 86% | 2.5 |
| FE-Penn Power | VFD on HVAC Fan | Motor w/out VFD | Other Inst'l | Motors | ROB | motor | 15,693 | 72% | 3.3 | 15 | \$2,843 | 86% | 2.5 |
| FE-Penn Power | Variable Speed Drives on Process Equipment | Constant speed control | Other Inst'l | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 9.2 |
| FE-Penn Power | Variable Speed Drives on Process Equipment | Constant speed control | Other Inst'l | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 9.2 |
| FE-Penn Power | Auto Off Time Switch | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | Existing | building | 5,401 | 24% | 0.2 | 8 | \$1,034 | 13% | 0.5 |
| FE-Penn Power | Auto Off Time Switch | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | New | building | 5,401 | 7.0% | 0.07 | 8 | \$1,034 | 0% | 0.1 |
| FE-Penn Power | Central Lighting Control System | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | Existing | building | 5,401 | 38% | 0.4 | 8 | \$1,034 | 13% | 0.7 |
| FE-Penn Power | Central Lighting Control System | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | New | building | 5,401 | 14% | 0.1 | 8 | \$1,034 | 13% | 0.3 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 40W Incandescent Bulb | Other Inst'l | Other Int. Lighting | Early | lamp | 87 | 87% | 0.01 | 15 | \$30 | 14% | 1.4 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | Early | lamp | 62 | 81% | 0.01 | 15 | \$30 | 11% | 1.0 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | New | lamp | 47 | 81% | 0.01 | 15 | \$21 | 14% | 1.0 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | New | lamp | 47 | 81% | 0.01 | 15 | \$23 | 14% | 1.0 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | New | lamp | 47 | 81% | 0.01 | 15 | \$22 | 11% | 1.0 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | ROB | lamp | 62 | 81% | 0.01 | 15 | \$21 | 14% | 1.4 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|---|--------------|---------------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | ROB | lamp | 62 | 81% | 0.01 | 15 | \$23 | 14% | 1.3 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | ROB | lamp | 62 | 81% | 0.01 | 15 | \$22 | 11% | 1.3 |
| FE-Penn Power | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Other Inst'l | Other Int. Lighting | Early | lamp | 87 | 75% | 0.01 | 7 | \$73 | 24% | 0.3 |
| FE-Penn Power | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Other Inst'l | Other Int. Lighting | New | fixture | 95 | 65% | 0.01 | 13 | \$29 | 28% | 1.1 |
| FE-Penn Power | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | New | lamp | 47 | 65% | 0.01 | 7 | \$29 | 28% | 0.4 |
| FE-Penn Power | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Other Inst'l | Other Int. Lighting | ROB | fixture | 125 | 65% | 0.01 | 13 | \$29 | 24% | 1.5 |
| FE-Penn Power | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | ROB | lamp | 62 | 65% | 0.01 | 7 | \$29 | 24% | 0.5 |
| FE-Penn Power | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Other Inst'l | Other Int. Lighting | Early | lamp | 87 | 75% | 0.01 | 7 | \$3.2 | 24% | 6.9 |
| FE-Penn Power | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | New | lamp | 47 | 65% | 0.01 | 7 | \$1.8 | 24% | 5.9 |
| FE-Penn Power | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | ROB | lamp | 62 | 65% | 0.01 | 7 | \$1.8 | 24% | 7.7 |
| FE-Penn Power | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | ROB | lamp | 62 | 65% | 0.01 | 7 | \$1.8 | 24% | 7.7 |
| FE-Penn Power | Exit Sign Retrofit: CFL replacing Incandescent | One 23W Single Sided Incandescent Exit Sign | Other Inst'l | Other Int. Lighting | Early | exit sign | 139 | 42% | 0.01 | 15 | \$48 | 22% | 0.6 |
| FE-Penn Power | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Other Inst'l | Other Int. Lighting | New | building | 5,401 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.0 |
| FE-Penn Power | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Other Inst'l | Other Int. Lighting | New | building | 5,401 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |
| FE-Penn Power | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Other Inst'l | Other Int. Lighting | New | building | 5,401 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| FE-Penn Power | Indoor Daylight Sensors | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | Existing | building | 5,401 | 28% | 0.3 | 8 | \$5,088 | 13% | 0.1 |
| FE-Penn Power | Indoor Daylight Sensors | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | New | building | 5,401 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| FE-Penn Power | LED Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Other Inst'l | Other Int. Lighting | Early | sign | 153 | 87% | 0.02 | 15 | \$48 | 16% | 1.5 |
| FE-Penn Power | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Other Inst'l | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 1.6 |
| FE-Penn Power | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Other Inst'l | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 1.6 |
| FE-Penn Power | LED Task Lighting/Screw-In | 1 15W CFL bulb | Other Inst'l | Other Int. Lighting | Early | lamp | 22 | 33% | 0.00 | 15 | \$9.6 | 24% | 0.4 |
| FE-Penn Power | LED Task Lighting/Screw-In | 1 60W Incandescent Bulb | Other Inst'l | Other Int. Lighting | Early | lamp | 89 | 83% | 0.01 | 15 | \$9.6 | 24% | 4.4 |
| FE-Penn Power | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Other Inst'l | Other Int. Lighting | New | lamp | 49 | 77% | 0.01 | 15 | \$7.9 | 24% | 2.7 |
| FE-Penn Power | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Other Inst'l | Other Int. Lighting | New | lamp | 49 | 77% | 0.01 | 15 | \$7.9 | 24% | 2.7 |
| FE-Penn Power | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Other Inst'l | Other Int. Lighting | ROB | lamp | 64 | 77% | 0.01 | 15 | \$7.9 | 24% | 3.5 |
| FE-Penn Power | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Other Inst'l | Other Int. Lighting | ROB | lamp | 64 | 77% | 0.01 | 15 | \$7.9 | 24% | 3.5 |
| FE-Penn Power | Occupancy Sensor | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | Existing | building | 5,401 | 24% | 0.2 | 8 | \$1,558 | 11% | 0.3 |
| FE-Penn Power | Occupancy Sensor | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | New | building | 5,401 | 7.0% | 0.07 | 8 | \$1,558 | 0% | 0.1 |
| FE-Penn Power | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | Existing | building | 5,401 | 28% | 0.3 | 8 | \$5,088 | 11% | 0.1 |
| FE-Penn Power | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | New | building | 5,401 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| FE-Penn Power | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Other Inst'l | Other Int. Lighting | Early | exit sign | 139 | 100% | 0.02 | 15 | \$173 | 26% | 0.4 |
| FE-Penn Power | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Other Inst'l | Other Int. Lighting | New | exit sign | 80 | 100% | 0.01 | 15 | \$148 | 31% | 0.3 |
| FE-Penn Power | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Other Inst'l | Other Int. Lighting | ROB | exit sign | 80 | 100% | 0.01 | 15 | \$148 | 26% | 0.3 |
| FE-Penn Power | Time Clock Control | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | Existing | building | 5,401 | 28% | 0.3 | 8 | \$1,034 | 13% | 0.5 |
| FE-Penn Power | Time Clock Control | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | New | building | 5,401 | 4.1% | 0.04 | 8 | \$1,034 | 0% | 0.1 |
| FE-Penn Power | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Other Inst'l | Plug Load | Existing | building | 2,913 | 46% | 0.5 | 5 | \$189 | 4% | 2.2 |
| FE-Penn Power | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Other Inst'l | Plug Load | New | building | 1,422 | 46% | 0.5 | 5 | \$189 | 4% | 1.5 |
| FE-Penn Power | Data Center - Server/Storage Consolidation | No Consolidation | Other Inst'l | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penn Power | Data Center - Server/Storage Consolidation | No Consolidation | Other Inst'l | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penn Power | Data Center - Server/Storage Virtualization | No Virtualization | Other Inst'l | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penn Power | Data Center - Server/Storage Virtualization | No Virtualization | Other Inst'l | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penn Power | Energy Star - Scanners | Std Scanner | Other Inst'l | Plug Load | New | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| FE-Penn Power | Energy Star - Scanners | Std Scanner | Other Inst'l | Plug Load | ROB | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| FE-Penn Power | Energy Star Dishwasher | Existing Dishwasher units | Other Inst'l | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,580 | 1% | 0.9 |
| FE-Penn Power | Energy Star Dishwasher | Standard Dishwasher unit | Other Inst'l | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 1% | 2.8 |
| FE-Penn Power | Energy Star Dishwasher | Standard Dishwasher unit | Other Inst'l | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 1% | 2.8 |
| FE-Penn Power | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Other Inst'l | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 17% | 0.1 |
| FE-Penn Power | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Other Inst'l | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 1.7 |
| FE-Penn Power | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Other Inst'l | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 1.7 |
| FE-Penn Power | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Other Inst'l | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 9% | 0.7 |
| FE-Penn Power | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Other Inst'l | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.5 |
| FE-Penn Power | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Other Inst'l | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.5 |
| FE-Penn Power | ENERGY STAR® Copiers | 10% Less Efficient Copier | Other Inst'l | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 18% | 0.0 |
| FE-Penn Power | ENERGY STAR® Copiers | One Conventional Copier | Other Inst'l | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| FE-Penn Power | ENERGY STAR® Copiers | One Conventional Copier | Other Inst'l | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| FE-Penn Power | ENERGY STAR® desktop | Standard computer | Other Inst'l | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 69% | 0.1 |
| FE-Penn Power | ENERGY STAR® desktop | Standard computer | Other Inst'l | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.2 |
| FE-Penn Power | ENERGY STAR® desktop | Standard computer | Other Inst'l | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.2 |
| FE-Penn Power | ENERGY STAR® Fax | 10% Less Efficient Fax | Other Inst'l | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 15% | 0.0 |
| FE-Penn Power | ENERGY STAR® Fax | One Conventional Fax | Other Inst'l | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.1 |
| FE-Penn Power | ENERGY STAR® Fax | One Conventional Fax | Other Inst'l | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.1 |
| FE-Penn Power | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Other Inst'l | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 70% | 0.0 |
| FE-Penn Power | ENERGY STAR® Monitors | One Conventional Monitor | Other Inst'l | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| FE-Penn Power | ENERGY STAR® Monitors | One Conventional Monitor | Other Inst'l | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| FE-Penn Power | ENERGY STAR® Printers | 10% Less Efficient Printer | Other Inst'l | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 44% | 0.0 |
| FE-Penn Power | ENERGY STAR® Printers | One Conventional Printer | Other Inst'l | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| FE-Penn Power | ENERGY STAR® Printers | One Conventional Printer | Other Inst'l | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| FE-Penn Power | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Other Inst'l | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 43% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|---|--------------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Other Inst'l | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.6 |
| FE-Penn Power | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Other Inst'l | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.6 |
| FE-Penn Power | ENERGY STAR® Televisions | 10% Less Efficient Television | Other Inst'l | Plug Load | Early | Unit | 111 | 38% | 0.01 | 6 | \$672 | 40% | 0.0 |
| FE-Penn Power | ENERGY STAR® Televisions | One Conventional Television | Other Inst'l | Plug Load | New | Unit | 101 | 32% | 0.01 | 6 | \$206 | 40% | 0.0 |
| FE-Penn Power | ENERGY STAR® Televisions | One Conventional Television | Other Inst'l | Plug Load | ROB | Unit | 101 | 32% | 0.01 | 6 | \$206 | 40% | 0.0 |
| FE-Penn Power | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Other Inst'l | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 24% | 0.2 |
| FE-Penn Power | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Other Inst'l | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.5 |
| FE-Penn Power | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Other Inst'l | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.5 |
| FE-Penn Power | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Other Inst'l | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.2 |
| FE-Penn Power | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Other Inst'l | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.2 |
| FE-Penn Power | Network PC Power Management | No PC Power Management | Other Inst'l | Plug Load | Existing | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 9.3 |
| FE-Penn Power | Network PC Power Management | No PC Power Management | Other Inst'l | Plug Load | New | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 9.3 |
| FE-Penn Power | Smart Strip Plug Outlets | Standard plug strip/outlet | Other Inst'l | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.3 |
| FE-Penn Power | Smart Strip Plug Outlets | Standard plug strip/outlet | Other Inst'l | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.3 |
| FE-Penn Power | Smart Strip Plug Outlets | Standard plug strip/outlet | Other Inst'l | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| FE-Penn Power | Smart Strip Plug Outlets | Standard plug strip/outlet | Other Inst'l | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| FE-Penn Power | Smart Strip Plug Outlets | Standard plug strip/outlet | Other Inst'l | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| FE-Penn Power | Smart Strip Plug Outlets | Standard plug strip/outlet | Other Inst'l | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| FE-Penn Power | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Other Inst'l | Plug Load | Existing | building | 2,913 | 46% | 0.5 | 5 | \$180 | 3% | 2.3 |
| FE-Penn Power | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Other Inst'l | Plug Load | New | building | 1,422 | 46% | 0.5 | 5 | \$180 | 3% | 1.6 |
| FE-Penn Power | Auto Closer on Refrigerator Door | Door w/out Autocloser | Other Inst'l | Refrigeration | Existing | building | 2,571 | 53% | 0.5 | 8 | \$747 | 40% | 0.9 |
| FE-Penn Power | Auto Closer on Refrigerator Door | Door w/out Autocloser | Other Inst'l | Refrigeration | Existing | building | 2,391 | 31% | 0.3 | 8 | \$763 | 40% | 0.5 |
| FE-Penn Power | Auto Closer on Refrigerator Door | Door w/out Autocloser | Other Inst'l | Refrigeration | New | building | 2,571 | 53% | 0.5 | 8 | \$747 | 40% | 0.9 |
| FE-Penn Power | Auto Closer on Refrigerator Door | Door w/out Autocloser | Other Inst'l | Refrigeration | New | building | 2,391 | 31% | 0.3 | 8 | \$763 | 40% | 0.5 |
| FE-Penn Power | Door Gasket- Freezer | Door w/out Gasket | Other Inst'l | Refrigeration | Existing | building | 2,571 | 29% | 0.3 | 4 | \$77 | 29% | 2.6 |
| FE-Penn Power | Door Gasket- Freezer | Door w/out Gasket | Other Inst'l | Refrigeration | New | building | 2,571 | 32% | 0.3 | 4 | \$77 | 29% | 2.9 |
| FE-Penn Power | Door Gasket- Refrigerator | Door w/out Gasket | Other Inst'l | Refrigeration | Existing | building | 2,391 | 9.5% | 0.10 | 4 | \$105 | 45% | 0.6 |
| FE-Penn Power | Door Gasket- Refrigerator | Door w/out Gasket | Other Inst'l | Refrigeration | New | building | 2,391 | 9.5% | 0.10 | 4 | \$105 | 45% | 0.6 |
| FE-Penn Power | eCube | Refrigeration unit w/out eCube | Other Inst'l | Refrigeration | Existing | building | 2,391 | 15% | 0.2 | 15 | \$700 | 57% | 0.4 |
| FE-Penn Power | eCube | Refrigeration unit w/out eCube | Other Inst'l | Refrigeration | New | building | 2,391 | 15% | 0.2 | 15 | \$700 | 57% | 0.4 |
| FE-Penn Power | Efficient compressor motor | Base Refrigeration System - Grocery | Other Inst'l | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.3 |
| FE-Penn Power | Efficient compressor motor | Base Refrigeration System - Grocery | Other Inst'l | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.4 |
| FE-Penn Power | Efficient compressor motor | Base Refrigeration System - Grocery | Other Inst'l | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.4 |
| FE-Penn Power | Efficient compressor motor | Base Refrigeration System - Grocery | Other Inst'l | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.4 |
| FE-Penn Power | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Other Inst'l | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.4 |
| FE-Penn Power | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Other Inst'l | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.2 |
| FE-Penn Power | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Other Inst'l | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.2 |
| FE-Penn Power | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Other Inst'l | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.2 |
| FE-Penn Power | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Other Inst'l | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.6 |
| FE-Penn Power | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Other Inst'l | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.6 |
| FE-Penn Power | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Other Inst'l | Refrigeration | Existing | building | 2,391 | 3.4% | 0.03 | 10 | \$369 | 77% | 0.1 |
| FE-Penn Power | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Other Inst'l | Refrigeration | New | building | 2,391 | 3.4% | 0.03 | 10 | \$369 | 77% | 0.1 |
| FE-Penn Power | Floating head pressure controller | System w/out FHPC | Other Inst'l | Refrigeration | Existing | building | 2,571 | 9.0% | 0.05 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penn Power | Floating head pressure controller | System w/out FHPC | Other Inst'l | Refrigeration | Existing | building | 2,391 | 3.4% | 0.02 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penn Power | Floating head pressure controller | System w/out FHPC | Other Inst'l | Refrigeration | New | building | 2,571 | 9.0% | 0.05 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penn Power | Floating head pressure controller | System w/out FHPC | Other Inst'l | Refrigeration | New | building | 2,391 | 3.4% | 0.02 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penn Power | High Efficiency Commercial Freezer | Std. Commercial Freezer | Other Inst'l | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 86% | 0.3 |
| FE-Penn Power | High Efficiency Commercial Freezer | Std. Commercial Freezer | Other Inst'l | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 3.2 |
| FE-Penn Power | High Efficiency Commercial Freezer | Std. Commercial Freezer | Other Inst'l | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 3.2 |
| FE-Penn Power | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Other Inst'l | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 2% | 0.1 |
| FE-Penn Power | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Other Inst'l | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.7 |
| FE-Penn Power | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Other Inst'l | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.7 |
| FE-Penn Power | High Efficiency Ice Maker | Existing Standard Efficiency Ice Maker in Pennsylvania | Other Inst'l | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 73% | 0.1 |
| FE-Penn Power | High Efficiency Ice Maker | Standard code minimum Ice Maker | Other Inst'l | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.1 |
| FE-Penn Power | High Efficiency Ice Maker | Standard code minimum Ice Maker | Other Inst'l | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.1 |
| FE-Penn Power | High Efficiency Ice Making Head | Standard Ice Making Head | Other Inst'l | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.2 |
| FE-Penn Power | High Efficiency Ice Making Head | Standard Ice Making Head | Other Inst'l | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.2 |
| FE-Penn Power | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Other Inst'l | Refrigeration | Early | Fixture | 373 | 56% | 0.01 | 8 | \$448 | 47% | 0.1 |
| FE-Penn Power | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Other Inst'l | Refrigeration | New | Fixture | 291 | 44% | 0.00 | 8 | \$139 | 47% | 0.3 |
| FE-Penn Power | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Other Inst'l | Refrigeration | ROB | Fixture | 291 | 44% | 0.00 | 8 | \$139 | 47% | 0.3 |
| FE-Penn Power | Quick acting freezer doors | Std. Freezer Doors | Other Inst'l | Refrigeration | Existing | building | 2,571 | 13% | 0.1 | 10 | \$408 | 56% | 0.4 |
| FE-Penn Power | Quick acting freezer doors | Std. Freezer Doors | Other Inst'l | Refrigeration | New | building | 2,571 | 13% | 0.1 | 10 | \$408 | 56% | 0.4 |
| FE-Penn Power | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Other Inst'l | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 30% | 0.3 |
| FE-Penn Power | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Other Inst'l | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|---|--------------|-----------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Other Inst'l | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.3 |
| FE-Penn Power | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 30% | 1.3 |
| FE-Penn Power | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 2.2 |
| FE-Penn Power | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 2.2 |
| FE-Penn Power | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 30% | 1.3 |
| FE-Penn Power | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 3.0 |
| FE-Penn Power | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 3.0 |
| FE-Penn Power | Refrigeration Commissioning | Non-commissioned refrigeration system | Other Inst'l | Refrigeration | Existing | building | 5,142 | 9.5% | 0.10 | 3 | \$1,204 | 85% | 0.1 |
| FE-Penn Power | Refrigeration Commissioning | Non-commissioned refrigeration system | Other Inst'l | Refrigeration | New | building | 5,142 | 9.5% | 0.10 | 3 | \$1,204 | 85% | 0.1 |
| FE-Penn Power | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Other Inst'l | Refrigeration | Existing | building | 2,571 | 59% | 0.6 | 4 | \$80 | 22% | 5.1 |
| FE-Penn Power | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Other Inst'l | Refrigeration | Existing | building | 2,391 | 12% | 0.1 | 4 | \$117 | 22% | 0.7 |
| FE-Penn Power | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Other Inst'l | Refrigeration | New | building | 2,571 | 59% | 0.6 | 4 | \$80 | 22% | 5.1 |
| FE-Penn Power | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Other Inst'l | Refrigeration | New | building | 2,391 | 12% | 0.1 | 4 | \$117 | 22% | 0.7 |
| FE-Penn Power | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Other Inst'l | Refrigeration | Existing | building | 2,571 | 12% | 0.1 | 11 | \$119 | 79% | 1.4 |
| FE-Penn Power | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Other Inst'l | Refrigeration | New | building | 2,571 | 12% | 0.1 | 11 | \$119 | 79% | 1.4 |
| FE-Penn Power | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Other Inst'l | Refrigeration | Existing | building | 2,391 | 8.9% | 0.09 | 11 | \$119 | 79% | 1.1 |
| FE-Penn Power | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Other Inst'l | Refrigeration | New | building | 2,391 | 8.9% | 0.09 | 11 | \$119 | 79% | 1.1 |
| FE-Penn Power | VSD Controlled Compressor | Compressor w/out VSD | Other Inst'l | Refrigeration | Early | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |
| FE-Penn Power | VSD Controlled Compressor | Compressor w/out VSD | Other Inst'l | Refrigeration | New | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |
| FE-Penn Power | VSD Controlled Compressor | Compressor w/out VSD | Other Inst'l | Refrigeration | ROB | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |
| FE-Penn Power | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Other Inst'l | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$269 | 35% | 0.7 |
| FE-Penn Power | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Other Inst'l | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$269 | 35% | 0.7 |
| FE-Penn Power | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Other Inst'l | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 2.4 |
| FE-Penn Power | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Other Inst'l | Refrigeration | New | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 2.3 |
| FE-Penn Power | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Other Inst'l | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 2.4 |
| FE-Penn Power | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Other Inst'l | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 2.3 |
| FE-Penn Power | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 35% | 1.9 |
| FE-Penn Power | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 35% | 1.8 |
| FE-Penn Power | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 4.0 |
| FE-Penn Power | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 3.7 |
| FE-Penn Power | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 3.9 |
| FE-Penn Power | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 3.7 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Other Inst'l | Space Heating | Existing | building | 4,511 | 7.1% | 0.07 | 6 | \$12,330 | 82% | 0.0 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Other Inst'l | Space Heating | New | building | 4,511 | 7.1% | 0.07 | 6 | \$12,330 | 82% | 0.0 |
| FE-Penn Power | Adding window shade film | No shade film | Other Inst'l | Space Heating | Existing | building | 4,511 | 1.3% | 0.4 | 10 | \$55 | 13% | 4.5 |
| FE-Penn Power | Adding window shade film | No shade film | Other Inst'l | Space Heating | New | building | 4,511 | 1.3% | 0.4 | 10 | \$55 | 13% | 4.5 |
| FE-Penn Power | Adding window shade screen | No shade screen | Other Inst'l | Space Heating | Existing | building | 4,511 | 1.1% | 0.01 | 10 | \$21 | 13% | 1.0 |
| FE-Penn Power | Adding window shade screen | No shade screen | Other Inst'l | Space Heating | New | building | 4,511 | 1.1% | 0.01 | 10 | \$21 | 13% | 1.0 |
| FE-Penn Power | Automated control system | Manual Controls | Other Inst'l | Space Heating | Existing | building | 4,511 | 17% | 0.2 | 15 | \$4,939 | 51% | 0.1 |
| FE-Penn Power | Automated control system | Manual Controls | Other Inst'l | Space Heating | New | building | 4,511 | 17% | 0.2 | 15 | \$4,939 | 94% | 0.1 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Other Inst'l | Space Heating | Existing | building | 4,511 | 7.2% | 0.07 | 15 | \$17,130 | 71% | 0.0 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Other Inst'l | Space Heating | New | building | 4,511 | 2.4% | 0.02 | 15 | \$16,283 | 94% | 0.0 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Other Inst'l | Space Heating | Existing | building | 4,511 | 1.4% | 0.04 | 15 | \$36 | 20% | 1.5 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Other Inst'l | Space Heating | New | building | 4,511 | 1.4% | 0.04 | 15 | \$36 | 10% | 1.5 |
| FE-Penn Power | Efficient Unit Heating System | Existing Unit Heaters in PA | Other Inst'l | Space Heating | Early | heater | 30,117 | 23% | 0.05 | 15 | \$3,289 | 83% | 0.8 |
| FE-Penn Power | Efficient Unit Heating System | Std. Unit Heater | Other Inst'l | Space Heating | New | heater | 26,729 | 13% | 0.03 | 15 | \$1,991 | 83% | 0.7 |
| FE-Penn Power | Efficient Unit Heating System | Std. Unit Heater | Other Inst'l | Space Heating | ROB | heater | 26,729 | 13% | 0.03 | 15 | \$1,991 | 83% | 0.7 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Other Inst'l | Space Heating | Existing | building | 4,511 | 7.1% | 0.07 | 15 | \$20,011 | 25% | 0.0 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Other Inst'l | Space Heating | New | building | 4,511 | 7.1% | 0.07 | 15 | \$20,011 | 35% | 0.0 |
| FE-Penn Power | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Other Inst'l | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 0.8 |
| FE-Penn Power | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Other Inst'l | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 0.8 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Other Inst'l | Space Heating | Existing | building | 4,511 | 1.1% | 0.01 | 10 | \$7,735 | 81% | 0.0 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Other Inst'l | Space Heating | New | building | 4,511 | 1.1% | 0.01 | 10 | \$7,735 | 81% | 0.0 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Other Inst'l | Space Heating | Existing | building | 4,511 | 3.6% | 0.04 | 11 | \$286 | 49% | 0.3 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Other Inst'l | Space Heating | New | building | 4,511 | 3.1% | 0.03 | 11 | \$146 | 49% | 0.4 |
| FE-Penn Power | Re-Commissioning (Existing Construction) | No Re-Commissioning | Other Inst'l | Space Heating | Existing | building | 4,511 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Other Inst'l | Space Heating | Existing | building | 4,511 | 13% | 0.1 | 15 | \$3,285 | 26% | 0.1 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Other Inst'l | Space Heating | New | building | 4,511 | 0.3% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| FE-Penn Power | Green LED Traffic Light | Green Incandescent Traffic Light | Other Inst'l | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 0% | 1.0 |
| FE-Penn Power | Green LED Traffic Light | Green Incandescent Traffic Light | Other Inst'l | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| FE-Penn Power | Green LED Traffic Light | Green Incandescent Traffic Light | Other Inst'l | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|--|---|--------------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Other Inst'l | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 0% | 2.6 |
| FE-Penn Power | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Other Inst'l | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-Penn Power | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Other Inst'l | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-Penn Power | Induction Street Lighting | One 100W HPS Street Light Fixture | Other Inst'l | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 0% | 0.2 |
| FE-Penn Power | Induction Street Lighting | One 100W HPS Street Light Fixture | Other Inst'l | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.4 |
| FE-Penn Power | Induction Street Lighting | One 100W HPS Street Light Fixture | Other Inst'l | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.4 |
| FE-Penn Power | LED Street Lighting | One 100W HPS Street Light | Other Inst'l | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 0% | 0.2 |
| FE-Penn Power | LED Street Lighting | One 100W HPS Street Light | Other Inst'l | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-Penn Power | LED Street Lighting | One 100W HPS Street Light | Other Inst'l | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-Penn Power | Red LED Traffic Light | One Red Incandescent Traffic Light | Other Inst'l | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 0% | 1.4 |
| FE-Penn Power | Red LED Traffic Light | One Red Incandescent Traffic Light | Other Inst'l | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.2 |
| FE-Penn Power | Red LED Traffic Light | One Red Incandescent Traffic Light | Other Inst'l | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.2 |
| FE-Penn Power | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Other Inst'l | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 0% | 0.1 |
| FE-Penn Power | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Other Inst'l | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-Penn Power | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Other Inst'l | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-Penn Power | Demand controlled Circulating Systems | Constant circulation system | Other Inst'l | Water Heating | Existing | building | 4,307 | 20% | 0.2 | 15 | \$781 | 59% | 0.7 |
| FE-Penn Power | Demand controlled Circulating Systems | Constant circulation system | Other Inst'l | Water Heating | New | building | 4,307 | 20% | 0.2 | 15 | \$781 | 59% | 0.7 |
| FE-Penn Power | Drainwater Heat Recovery Water Heater | No heat recovery | Other Inst'l | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.5 |
| FE-Penn Power | Drainwater Heat Recovery Water Heater | No heat recovery | Other Inst'l | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.5 |
| FE-Penn Power | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Other Inst'l | Water Heating | Existing | building | 4,307 | 5.9% | 0.06 | 12 | \$42 | 85% | 3.2 |
| FE-Penn Power | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Other Inst'l | Water Heating | New | building | 4,307 | 5.9% | 0.06 | 12 | \$12 | 85% | 11.1 |
| FE-Penn Power | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Other Inst'l | Water Heating | Early | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 2.5 |
| FE-Penn Power | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Other Inst'l | Water Heating | Early | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 2.5 |
| FE-Penn Power | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Other Inst'l | Water Heating | New | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 2.5 |
| FE-Penn Power | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Other Inst'l | Water Heating | New | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 2.5 |
| FE-Penn Power | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Other Inst'l | Water Heating | ROB | water heater | 10,350 | 65% | 1.2 | 10 | \$1,187 | 68% | 2.4 |
| FE-Penn Power | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Other Inst'l | Water Heating | ROB | water heater | 10,350 | 65% | 1.2 | 10 | \$1,187 | 68% | 2.4 |
| FE-Penn Power | Heat Recovery Unit | Base Water Heating | Other Inst'l | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.3 |
| FE-Penn Power | Heat Recovery Unit | Base Water Heating | Other Inst'l | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.3 |
| FE-Penn Power | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Other Inst'l | Water Heating | Early | water heater | 10,645 | 5.9% | 0.1 | 15 | \$307 | 79% | 1.2 |
| FE-Penn Power | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Other Inst'l | Water Heating | Early | water heater | 10,645 | 5.9% | 0.1 | 15 | \$307 | 79% | 1.2 |
| FE-Penn Power | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Other Inst'l | Water Heating | New | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.6 |
| FE-Penn Power | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Other Inst'l | Water Heating | New | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.6 |
| FE-Penn Power | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Other Inst'l | Water Heating | ROB | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.6 |
| FE-Penn Power | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Other Inst'l | Water Heating | ROB | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.6 |
| FE-Penn Power | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Other Inst'l | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$466 | 81% | 32.0 |
| FE-Penn Power | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Other Inst'l | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 16.7 |
| FE-Penn Power | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Other Inst'l | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 16.7 |
| FE-Penn Power | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Other Inst'l | Water Heating | Existing | building | 4,307 | 0.8% | 0.01 | 13 | \$4.9 | 68% | 3.9 |
| FE-Penn Power | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Other Inst'l | Water Heating | New | building | 4,307 | 0.8% | 0.01 | 13 | \$4.9 | 0% | 3.9 |
| FE-Penn Power | Hot Water Circulation Pump Time-Clock | Constant circulation system | Other Inst'l | Water Heating | Existing | building | 4,307 | 5.3% | 0.05 | 10 | \$17 | 72% | 6.1 |
| FE-Penn Power | Hot Water Circulation Pump Time-Clock | Constant circulation system | Other Inst'l | Water Heating | New | building | 4,307 | 5.3% | 0.05 | 10 | \$17 | 72% | 6.1 |
| FE-Penn Power | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Other Inst'l | Water Heating | Existing | building | 4,307 | 0.9% | 0.01 | 7 | \$22 | 78% | 0.7 |
| FE-Penn Power | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Other Inst'l | Water Heating | New | building | 4,307 | 0.8% | 0.01 | 7 | \$0.5 | 78% | 25.0 |
| FE-Penn Power | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Other Inst'l | Water Heating | Existing | building | 4,307 | 4.5% | 0.05 | 5 | \$300 | 0% | 0.2 |
| FE-Penn Power | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Other Inst'l | Water Heating | New | building | 4,307 | 3.0% | 0.03 | 5 | \$194 | 0% | 0.2 |
| FE-Penn Power | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Other Inst'l | Water Heating | Existing | building | 4,307 | 6.5% | 0.07 | 9 | \$25 | 2% | 4.9 |
| FE-Penn Power | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Other Inst'l | Water Heating | New | building | 4,307 | 6.5% | 0.07 | 9 | \$6.0 | 2% | 20.3 |
| FE-Penn Power | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Other Inst'l | Water Heating | Early | water heater | 10,645 | 52% | 0.4 | 15 | \$6,222 | 32% | 0.4 |
| FE-Penn Power | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Other Inst'l | Water Heating | New | water heater | 10,350 | 51% | 0.4 | 15 | \$6,222 | 32% | 0.4 |
| FE-Penn Power | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Other Inst'l | Water Heating | ROB | water heater | 10,350 | 51% | 0.4 | 15 | \$6,222 | 32% | 0.4 |
| FE-Penn Power | Ultrasonic Faucet Control | Manual Faucet Control | Other Inst'l | Water Heating | Existing | building | 4,307 | 3.0% | 0.03 | 10 | \$745 | 77% | 0.1 |
| FE-Penn Power | Ultrasonic Faucet Control | Manual Faucet Control | Other Inst'l | Water Heating | New | building | 4,307 | 3.0% | 0.03 | 10 | \$745 | 77% | 0.1 |
| FE-Penn Power | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Other Inst'l | Water Heating | Existing | building | 4,307 | 2.2% | 0.02 | 4 | \$28 | 83% | 0.8 |
| FE-Penn Power | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Other Inst'l | Water Heating | New | building | 4,307 | 2.3% | 0.02 | 4 | \$28 | 83% | 0.8 |
| FE-Penn Power | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Restaurant | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 57% | 0.9 |
| FE-Penn Power | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Restaurant | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 57% | 0.9 |
| FE-Penn Power | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Restaurant | Cooking | Early | steamer | 51 | 46% | 0.00 | 12 | \$5,053 | 81% | 0.0 |
| FE-Penn Power | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Restaurant | Cooking | New | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-Penn Power | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Restaurant | Cooking | ROB | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-Penn Power | Electric combination oven (Energy Star) | Standard Oven | Restaurant | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 73% | 2.5 |
| FE-Penn Power | Electric combination oven (Energy Star) | Standard Oven | Restaurant | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 73% | 2.5 |
| FE-Penn Power | Electric Convection Oven | Conventional convection oven w/ 65% efficiency | Restaurant | Cooking | Early | oven | 8,641 | 37% | 0.6 | 12 | \$4,119 | 81% | 0.4 |
| FE-Penn Power | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Restaurant | Cooking | New | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.6 |
| FE-Penn Power | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Restaurant | Cooking | ROB | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.6 |
| FE-Penn Power | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Restaurant | Cooking | Early | fryer | 6,105 | 23% | 0.3 | 12 | \$9,241 | 86% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|--|---|------------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Restaurant | Cooking | New | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| FE-Penn Power | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Restaurant | Cooking | ROB | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| FE-Penn Power | High Efficiency Griddle (ENERGY STAR) | Efficiency code minimum griddle (70% eff) | Restaurant | Cooking | Early | griddle | 11,317 | 65% | 1.4 | 12 | \$4,977 | 86% | 0.7 |
| FE-Penn Power | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Restaurant | Cooking | New | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.0 |
| FE-Penn Power | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Restaurant | Cooking | ROB | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.0 |
| FE-Penn Power | High Efficiency Induction Cooking | Standard Cooking | Restaurant | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 76% | 0.1 |
| FE-Penn Power | High Efficiency Induction Cooking | Standard Cooking | Restaurant | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 76% | 0.1 |
| FE-Penn Power | Solid-state temperature controls | No Solid State Controls | Restaurant | Cooking | Existing | building | 36,160 | 3.6% | 0.04 | 12 | \$162 | 32% | 2.9 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Restaurant | Cooling Central | Existing | building | 2,737 | 7.0% | 0.07 | 6 | \$19,337 | 82% | 0.0 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Restaurant | Cooling Central | New | building | 2,737 | 7.0% | 0.07 | 6 | \$19,337 | 82% | 0.0 |
| FE-Penn Power | Adding window shade film | No shade film | Restaurant | Cooling Central | Existing | building | 2,737 | 1.3% | 0.4 | 10 | \$33 | 12% | 7.2 |
| FE-Penn Power | Adding window shade film | No shade film | Restaurant | Cooling Central | New | building | 2,737 | 1.3% | 0.4 | 10 | \$33 | 13% | 7.2 |
| FE-Penn Power | Adding window shade screen | No shade screen | Restaurant | Cooling Central | Existing | building | 2,737 | 1.0% | 0.01 | 10 | \$13 | 13% | 1.2 |
| FE-Penn Power | Adding window shade screen | No shade screen | Restaurant | Cooling Central | New | building | 2,737 | 1.1% | 0.01 | 10 | \$13 | 13% | 1.2 |
| FE-Penn Power | Automated control system | Manual Controls | Restaurant | Cooling Central | Existing | building | 2,737 | 17% | 0.2 | 15 | \$2,997 | 51% | 0.1 |
| FE-Penn Power | Automated control system | Manual Controls | Restaurant | Cooling Central | New | building | 2,737 | 17% | 0.2 | 15 | \$2,997 | 94% | 0.1 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Restaurant | Cooling Central | Existing | building | 2,737 | 8.9% | 0.09 | 15 | \$26,661 | 71% | 0.0 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Restaurant | Cooling Central | New | building | 2,737 | 3.0% | 0.03 | 15 | \$25,342 | 94% | 0.0 |
| FE-Penn Power | Chiller Tuneup/Diagnostics | No tuneup | Restaurant | Cooling Central | Existing | building | 2,737 | 8.0% | 0.08 | 10 | \$6,990 | 59% | 0.0 |
| FE-Penn Power | Chiller Tuneup/Diagnostics | No tuneup | Restaurant | Cooling Central | New | building | 2,737 | 8.0% | 0.08 | 10 | \$6,990 | 59% | 0.0 |
| FE-Penn Power | Commercial energy recovery ventilation systems | No Commercial Recovery System | Restaurant | Cooling Central | Existing | building | 2,737 | 16% | 0.2 | 14 | \$2,474 | 71% | 0.1 |
| FE-Penn Power | Cooling Tower Optimization | No Cooling Tower Optimization | Restaurant | Cooling Central | Existing | building | 2,737 | 20% | 0.2 | 10 | \$17 | 69% | 17.5 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Restaurant | Cooling Central | Existing | building | 2,737 | 1.4% | 0.04 | 15 | \$22 | 20% | 2.2 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Restaurant | Cooling Central | New | building | 2,737 | 1.4% | 0.04 | 15 | \$22 | 10% | 2.2 |
| FE-Penn Power | Facility Commissioning | No Facility Commissioning | Restaurant | Cooling Central | New | building | 2,737 | 16% | 0.2 | 10 | \$7,804 | 89% | 0.0 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Restaurant | Cooling Central | Existing | building | 2,737 | 7.0% | 0.07 | 15 | \$12,142 | 25% | 0.0 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Restaurant | Cooling Central | New | building | 2,737 | 7.0% | 0.07 | 15 | \$12,142 | 35% | 0.0 |
| FE-Penn Power | Hi Eff HVAC System Design | No HVAC Design | Restaurant | Cooling Central | New | building | 2,737 | 12% | 0.1 | 10 | \$110,291 | 51% | 0.0 |
| FE-Penn Power | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | Early | ton | 4,330 | 24% | 0.4 | 15 | \$108,550 | 88% | 0.0 |
| FE-Penn Power | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | New | ton | 3,540 | 6.7% | 0.09 | 15 | \$12,927 | 88% | 0.0 |
| FE-Penn Power | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | ROB | ton | 3,540 | 6.7% | 0.09 | 15 | \$12,927 | 88% | 0.0 |
| FE-Penn Power | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | Early | ton | 6,471 | 23% | 0.6 | 15 | \$140,105 | 88% | 0.0 |
| FE-Penn Power | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | New | ton | 5,206 | 4.8% | 0.09 | 15 | \$9,336 | 88% | 0.0 |
| FE-Penn Power | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | ROB | ton | 5,206 | 4.9% | 0.09 | 15 | \$9,336 | 88% | 0.0 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | Early | ton | 52,971 | 26% | 5.0 | 15 | \$105,354 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | New | ton | 46,153 | 15% | 2.5 | 15 | \$30,530 | 88% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | ROB | ton | 46,153 | 15% | 2.5 | 15 | \$30,530 | 88% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | Early | ton | 79,336 | 23% | 6.6 | 15 | \$154,107 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | New | ton | 72,880 | 16% | 4.3 | 15 | \$27,646 | 88% | 0.3 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | ROB | ton | 79,336 | 23% | 6.6 | 15 | \$27,646 | 88% | 0.5 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | Early | ton | 131,762 | 23% | 10.9 | 15 | \$302,924 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | New | ton | 119,254 | 14% | 6.3 | 15 | \$115,432 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | ROB | ton | 131,762 | 23% | 10.9 | 15 | \$115,432 | 88% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | Early | ton | 158,114 | 23% | 13.1 | 15 | \$350,154 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | New | ton | 143,105 | 14% | 7.6 | 15 | \$120,406 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | ROB | ton | 158,114 | 23% | 13.1 | 15 | \$120,406 | 88% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | Early | ton | 35,047 | 29% | 3.8 | 15 | \$83,632 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | New | ton | 27,214 | 8.9% | 0.9 | 15 | \$40,211 | 88% | 0.0 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | ROB | ton | 35,047 | 29% | 3.8 | 15 | \$40,211 | 88% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | Early | ton | 60,220 | 35% | 7.7 | 15 | \$132,173 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | New | ton | 44,914 | 13% | 2.1 | 15 | \$39,556 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | ROB | ton | 44,914 | 13% | 2.1 | 15 | \$39,556 | 88% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|--|---|------------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | Early | ton | 100,542 | 39% | 14.4 | 15 | \$187,029 | 88% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | New | ton | 71,685 | 15% | 3.8 | 15 | \$33,554 | 88% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | ROB | ton | 100,542 | 39% | 14.4 | 15 | \$33,554 | 88% | 0.8 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | Early | ton | 17,593 | 30% | 1.9 | 15 | \$32,398 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | New | ton | 13,939 | 11% | 0.6 | 15 | \$7,188 | 88% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | ROB | ton | 17,593 | 30% | 1.9 | 15 | \$7,188 | 88% | 0.5 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Restaurant | Cooling Central | Existing | building | 2,737 | 3.5% | 0.04 | 10 | \$2,513 | 81% | 0.0 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Restaurant | Cooling Central | New | building | 2,737 | 3.5% | 0.04 | 10 | \$2,513 | 81% | 0.0 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Restaurant | Cooling Central | Existing | building | 2,737 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.1 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Restaurant | Cooling Central | New | building | 2,737 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.2 |
| FE-Penn Power | Re-Commissioning (Existing Construction) | No Re-Commissioning | Restaurant | Cooling Central | Existing | building | 2,737 | 16% | 0.2 | 5 | \$12,732 | 86% | 0.0 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Restaurant | Cooling Central | Existing | building | 2,737 | 12% | 0.1 | 15 | \$6,404 | 26% | 0.0 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Restaurant | Cooling Central | New | building | 2,737 | 0.5% | 0.01 | 15 | \$4,912 | 94% | 0.0 |
| FE-Penn Power | <65k BTU/hr 14 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Restaurant | Cooling Unitary | Early | ton | 1,932 | 16% | 0.2 | 15 | \$1,545 | 29% | 0.2 |
| FE-Penn Power | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Restaurant | Cooling Unitary | New | ton | 1,750 | 7.1% | 0.10 | 15 | \$339 | 29% | 0.4 |
| FE-Penn Power | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Restaurant | Cooling Unitary | ROB | ton | 1,750 | 7.1% | 0.10 | 15 | \$339 | 29% | 0.4 |
| FE-Penn Power | <65k BTU/hr 15 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Restaurant | Cooling Unitary | Early | ton | 1,932 | 22% | 0.3 | 15 | \$1,821 | 30% | 0.2 |
| FE-Penn Power | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Restaurant | Cooling Unitary | New | ton | 1,750 | 13% | 0.2 | 15 | \$714 | 30% | 0.3 |
| FE-Penn Power | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Restaurant | Cooling Unitary | ROB | ton | 1,750 | 13% | 0.2 | 15 | \$714 | 30% | 0.3 |
| FE-Penn Power | <65k BTU/hr 16 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Restaurant | Cooling Unitary | Early | ton | 1,932 | 26% | 0.4 | 15 | \$2,098 | 31% | 0.3 |
| FE-Penn Power | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Restaurant | Cooling Unitary | New | ton | 1,750 | 19% | 0.3 | 15 | \$1,089 | 31% | 0.3 |
| FE-Penn Power | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Restaurant | Cooling Unitary | ROB | ton | 1,750 | 19% | 0.3 | 15 | \$1,089 | 31% | 0.3 |
| FE-Penn Power | >760k min 10.2 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Restaurant | Cooling Unitary | Early | ton | 48,891 | 3.7% | 1.4 | 15 | \$68,066 | 56% | 0.0 |
| FE-Penn Power | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Restaurant | Cooling Unitary | New | ton | 49,518 | 4.9% | 1.9 | 15 | \$6,231 | 56% | 0.4 |
| FE-Penn Power | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Restaurant | Cooling Unitary | ROB | ton | 49,518 | 4.9% | 1.9 | 15 | \$6,231 | 56% | 0.4 |
| FE-Penn Power | 135-240k min 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Restaurant | Cooling Unitary | Early | ton | 12,030 | 18% | 1.7 | 15 | \$18,135 | 79% | 0.1 |
| FE-Penn Power | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Restaurant | Cooling Unitary | New | ton | 10,943 | 10.0% | 0.8 | 15 | \$1,948 | 79% | 0.6 |
| FE-Penn Power | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Restaurant | Cooling Unitary | ROB | ton | 10,943 | 10.0% | 0.8 | 15 | \$1,948 | 79% | 0.6 |
| FE-Penn Power | 240k-760k min 11 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Restaurant | Cooling Unitary | Early | ton | 32,165 | 9.0% | 2.3 | 15 | \$44,809 | 66% | 0.1 |
| FE-Penn Power | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Restaurant | Cooling Unitary | New | ton | 32,245 | 9.3% | 2.3 | 15 | \$4,813 | 66% | 0.6 |
| FE-Penn Power | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Restaurant | Cooling Unitary | ROB | ton | 32,245 | 9.3% | 2.3 | 15 | \$4,813 | 66% | 0.6 |
| FE-Penn Power | 65k-135k BTU/hr 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Restaurant | Cooling Unitary | Early | ton | 7,091 | 17% | 0.9 | 15 | \$10,946 | 86% | 0.1 |
| FE-Penn Power | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Restaurant | Cooling Unitary | New | ton | 6,320 | 6.7% | 0.3 | 15 | \$1,392 | 86% | 0.3 |
| FE-Penn Power | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Restaurant | Cooling Unitary | ROB | ton | 6,320 | 6.7% | 0.3 | 15 | \$1,392 | 86% | 0.3 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Restaurant | Cooling Unitary | Existing | building | 25,397 | 7.0% | 0.07 | 6 | \$19,337 | 82% | 0.0 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Restaurant | Cooling Unitary | New | building | 25,397 | 7.1% | 0.07 | 6 | \$19,337 | 82% | 0.0 |
| FE-Penn Power | Adding window shade film | No shade film | Restaurant | Cooling Unitary | Existing | building | 25,397 | 1.3% | 0.4 | 10 | \$309 | 12% | 1.1 |
| FE-Penn Power | Adding window shade film | No shade film | Restaurant | Cooling Unitary | New | building | 25,397 | 1.3% | 0.4 | 10 | \$309 | 13% | 1.1 |
| FE-Penn Power | Adding window shade screen | No shade screen | Restaurant | Cooling Unitary | Existing | building | 25,397 | 1.1% | 0.01 | 10 | \$120 | 12% | 0.8 |
| FE-Penn Power | Adding window shade screen | No shade screen | Restaurant | Cooling Unitary | New | building | 25,397 | 1.1% | 0.01 | 10 | \$120 | 13% | 0.8 |
| FE-Penn Power | Automated control system | Manual Controls | Restaurant | Cooling Unitary | Existing | building | 25,397 | 17% | 0.2 | 15 | \$27,804 | 51% | 0.1 |
| FE-Penn Power | Automated control system | Manual Controls | Restaurant | Cooling Unitary | New | building | 25,397 | 17% | 0.2 | 15 | \$27,804 | 94% | 0.1 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Restaurant | Cooling Unitary | Existing | building | 25,397 | 8.9% | 0.09 | 15 | \$26,661 | 71% | 0.0 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Restaurant | Cooling Unitary | New | building | 25,397 | 3.0% | 0.03 | 15 | \$25,342 | 94% | 0.0 |
| FE-Penn Power | Commercial energy recovery ventilation systems | No Commercial Recovery System | Restaurant | Cooling Unitary | Existing | building | 25,397 | 16% | 0.2 | 14 | \$22,950 | 71% | 0.1 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Restaurant | Cooling Unitary | Existing | building | 25,397 | 1.4% | 0.04 | 15 | \$202 | 20% | 0.9 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Restaurant | Cooling Unitary | New | building | 25,397 | 1.4% | 0.04 | 15 | \$202 | 10% | 0.9 |
| FE-Penn Power | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Restaurant | Cooling Unitary | Existing | building | 13,879 | 13% | 0.1 | 1 | \$133 | 73% | 0.8 |
| FE-Penn Power | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Restaurant | Cooling Unitary | New | building | 13,879 | 13% | 0.1 | 1 | \$133 | 73% | 0.8 |
| FE-Penn Power | ECM Motors for split systems | Std Shaded Pole Motor | Restaurant | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.4 |
| FE-Penn Power | ECM Motors for split systems | Std Shaded Pole Motor | Restaurant | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.4 |
| FE-Penn Power | Facility Commissioning | No Facility Commissioning | Restaurant | Cooling Unitary | New | building | 25,397 | 16% | 0.2 | 10 | \$412 | 89% | 3.5 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Restaurant | Cooling Unitary | Existing | building | 25,397 | 7.1% | 0.07 | 15 | \$112,656 | 25% | 0.0 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Restaurant | Cooling Unitary | New | building | 25,397 | 7.0% | 0.07 | 15 | \$112,656 | 35% | 0.0 |
| FE-Penn Power | Hi Eff HVAC System Design | No HVAC Design | Restaurant | Cooling Unitary | New | building | 25,397 | 12% | 0.1 | 10 | \$1,475 | 51% | 0.7 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|--|---|------------|-----------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Restaurant | Cooling Unitary | Existing | building | 25,397 | 5.0% | 0.05 | 5 | \$225 | 59% | 1.2 |
| FE-Penn Power | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Restaurant | Cooling Unitary | Existing | building | 25,397 | 0.5% | 0.05 | 5 | \$225 | 51% | 0.2 |
| FE-Penn Power | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Restaurant | Cooling Unitary | New | building | 25,397 | 0.5% | 0.05 | 5 | \$135 | 51% | 0.3 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Restaurant | Cooling Unitary | Existing | building | 25,397 | 3.5% | 0.04 | 10 | \$2,701 | 86% | 0.1 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Restaurant | Cooling Unitary | New | building | 25,397 | 3.5% | 0.04 | 10 | \$2,701 | 86% | 0.1 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) | Restaurant | Cooling Unitary | Existing | building | 25,397 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.7 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Restaurant | Cooling Unitary | New | building | 25,397 | 1.7% | 0.02 | 11 | \$146 | 49% | 1.1 |
| FE-Penn Power | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Restaurant | Cooling Unitary | Early | unit | 844 | 19% | 0.06 | 15 | \$849 | 85% | 0.1 |
| FE-Penn Power | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Restaurant | Cooling Unitary | New | unit | 852 | 20% | 0.06 | 15 | \$356 | 85% | 0.3 |
| FE-Penn Power | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Restaurant | Cooling Unitary | ROB | unit | 852 | 20% | 0.06 | 15 | \$356 | 85% | 0.3 |
| FE-Penn Power | Re-Commissioning (Existing Construction) | No Re-Commissioning | Restaurant | Cooling Unitary | Existing | building | 25,397 | 16% | 0.2 | 5 | \$12,732 | 86% | 0.1 |
| FE-Penn Power | Room AC (w/ louvered sides) | Existing efficiency Room AC in Pennsylvania (2000 Federal Standards) | Restaurant | Cooling Unitary | Early | ton | 912 | 13% | 0.04 | 9 | \$348 | 82% | 0.2 |
| FE-Penn Power | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Restaurant | Cooling Unitary | New | ton | 827 | 4.5% | 0.01 | 9 | \$17 | 82% | 1.1 |
| FE-Penn Power | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Restaurant | Cooling Unitary | ROB | ton | 827 | 4.5% | 0.01 | 9 | \$17 | 82% | 1.1 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Restaurant | Cooling Unitary | Existing | building | 25,397 | 12% | 0.1 | 15 | \$6,404 | 26% | 0.2 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Restaurant | Cooling Unitary | New | building | 25,397 | 0.5% | 0.01 | 15 | \$4,912 | 94% | 0.0 |
| FE-Penn Power | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Restaurant | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 0.9 |
| FE-Penn Power | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Restaurant | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.0 |
| FE-Penn Power | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Restaurant | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.1 |
| FE-Penn Power | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Restaurant | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 0% | 0.1 |
| FE-Penn Power | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Restaurant | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-Penn Power | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Restaurant | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-Penn Power | LED exterior lighting | 250 Watt Incandescent | Restaurant | Ext. Lighting | ROB | measure | 515 | 83% | 0.1 | 15 | \$104 | 89% | 2.5 |
| FE-Penn Power | LED exterior lighting | 250 Watt Incandescent | Restaurant | Ext. Lighting | ROB | measure | 515 | 83% | 0.1 | 15 | \$104 | 89% | 2.5 |
| FE-Penn Power | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Restaurant | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 75% | 0.2 |
| FE-Penn Power | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Restaurant | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 75% | 0.2 |
| FE-Penn Power | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Restaurant | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.3 |
| FE-Penn Power | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Restaurant | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 1.7 |
| FE-Penn Power | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Restaurant | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.3 |
| FE-Penn Power | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Restaurant | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 1.7 |
| FE-Penn Power | Photocell Controls (Outdoor) | Lighting w/ No Controls | Restaurant | Ext. Lighting | Existing | building | 265 | 28% | 0.3 | 8 | \$891 | 88% | 0.2 |
| FE-Penn Power | Photocell Controls (Outdoor) | Lighting w/ No Controls | Restaurant | Ext. Lighting | New | building | 265 | 28% | 0.3 | 8 | \$891 | 0% | 0.2 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Restaurant | Heat Pump | Existing | building | 1,957 | 6.9% | 0.07 | 6 | \$19,337 | 82% | 0.0 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Restaurant | Heat Pump | New | building | 1,957 | 6.9% | 0.07 | 6 | \$19,337 | 82% | 0.0 |
| FE-Penn Power | Adding window shade film | No shade film | Restaurant | Heat Pump | Existing | building | 1,957 | 3.9% | 0.4 | 10 | \$24 | 12% | 10.5 |
| FE-Penn Power | Adding window shade film | No shade film | Restaurant | Heat Pump | New | building | 1,957 | 3.9% | 0.4 | 10 | \$24 | 12% | 10.5 |
| FE-Penn Power | Adding window shade screen | No shade screen | Restaurant | Heat Pump | Existing | building | 1,957 | 0.3% | 0.01 | 10 | \$3.1 | 12% | 2.6 |
| FE-Penn Power | Adding window shade screen | No shade screen | Restaurant | Heat Pump | New | building | 1,957 | 0.3% | 0.01 | 10 | \$3.1 | 12% | 2.6 |
| FE-Penn Power | Automated control system | Manual Controls | Restaurant | Heat Pump | Existing | building | 1,957 | 17% | 0.2 | 15 | \$2,143 | 51% | 0.1 |
| FE-Penn Power | Automated control system | Manual Controls | Restaurant | Heat Pump | New | building | 1,957 | 17% | 0.2 | 15 | \$2,143 | 94% | 0.1 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Restaurant | Heat Pump | Existing | building | 1,957 | 8.9% | 0.09 | 15 | \$26,661 | 71% | 0.0 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Restaurant | Heat Pump | New | building | 1,957 | 3.0% | 0.03 | 15 | \$25,342 | 94% | 0.0 |
| FE-Penn Power | Commercial energy recovery ventilation systems | No Commercial Recovery System | Restaurant | Heat Pump | Existing | building | 1,957 | 16% | 0.2 | 14 | \$1,038,702 | 71% | 0.0 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Restaurant | Heat Pump | Existing | building | 1,957 | 4.0% | 0.04 | 15 | \$16 | 12% | 4.0 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Restaurant | Heat Pump | New | building | 1,957 | 4.0% | 0.04 | 15 | \$16 | 6% | 4.0 |
| FE-Penn Power | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Restaurant | Heat Pump | Early | heat pump | 2,496 | 11% | 0.02 | 15 | \$4,070 | 83% | 0.0 |
| FE-Penn Power | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Restaurant | Heat Pump | New | heat pump | 2,419 | 8.0% | 0.02 | 15 | \$1,097 | 83% | 0.1 |
| FE-Penn Power | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Restaurant | Heat Pump | ROB | heat pump | 2,419 | 8.0% | 0.02 | 15 | \$1,097 | 83% | 0.1 |
| FE-Penn Power | Facility Commissioning | No Facility Commissioning | Restaurant | Heat Pump | New | building | 1,957 | 16% | 0.2 | 10 | \$7,804 | 89% | 0.0 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Restaurant | Heat Pump | Existing | building | 1,957 | 7.0% | 0.07 | 15 | \$8,683 | 25% | 0.0 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Restaurant | Heat Pump | New | building | 1,957 | 7.0% | 0.07 | 15 | \$8,683 | 35% | 0.0 |
| FE-Penn Power | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Restaurant | Heat Pump | Early | heat pump | 26,182 | 13% | 0.3 | 15 | \$91,117 | 19% | 0.0 |
| FE-Penn Power | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Restaurant | Heat Pump | New | heat pump | 25,523 | 11% | 0.2 | 15 | \$33,927 | 19% | 0.0 |
| FE-Penn Power | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Restaurant | Heat Pump | ROB | heat pump | 25,523 | 11% | 0.2 | 15 | \$33,927 | 19% | 0.0 |
| FE-Penn Power | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Restaurant | Heat Pump | Early | heat pump | 26,182 | 13% | 0.3 | 15 | \$58,356 | 19% | 0.0 |
| FE-Penn Power | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Restaurant | Heat Pump | New | heat pump | 25,523 | 11% | 0.2 | 15 | \$1,167 | 19% | 1.1 |
| FE-Penn Power | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Restaurant | Heat Pump | ROB | heat pump | 25,523 | 11% | 0.2 | 15 | \$1,167 | 19% | 1.1 |
| FE-Penn Power | Hi Eff HVAC System Design | No HVAC Design | Restaurant | Heat Pump | New | building | 1,957 | 12% | 0.1 | 10 | \$110,291 | 51% | 0.0 |
| FE-Penn Power | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Restaurant | Heat Pump | Early | heat pump | 6,935 | 15% | 0.09 | 12 | \$4,298 | 81% | 0.1 |
| FE-Penn Power | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Restaurant | Heat Pump | Early | heat pump | 6,935 | 26% | 0.2 | 12 | \$5,883 | 81% | 0.1 |
| FE-Penn Power | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Restaurant | Heat Pump | New | heat pump | 6,703 | 12% | 0.07 | 12 | \$852 | 81% | 0.4 |
| FE-Penn Power | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Restaurant | Heat Pump | New | heat pump | 6,703 | 24% | 0.1 | 12 | \$2,437 | 81% | 0.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|--|--|------------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Restaurant | Heat Pump | ROB | heat pump | 6,703 | 12% | 0.07 | 12 | \$852 | 81% | 0.4 |
| FE-Penn Power | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Restaurant | Heat Pump | ROB | heat pump | 6,703 | 24% | 0.1 | 12 | \$2,437 | 81% | 0.3 |
| FE-Penn Power | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Restaurant | Heat Pump | Existing | building | 1,957 | 5.0% | 0.01 | 5 | \$90 | 51% | 0.2 |
| FE-Penn Power | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Restaurant | Heat Pump | New | building | 1,957 | 5.0% | 0.01 | 5 | \$90 | 51% | 0.2 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Restaurant | Heat Pump | Existing | building | 1,957 | 3.5% | 0.04 | 10 | \$2,405 | 81% | 0.0 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Restaurant | Heat Pump | New | building | 1,957 | 3.5% | 0.04 | 10 | \$2,405 | 81% | 0.0 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Restaurant | Heat Pump | Existing | building | 1,957 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.1 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Restaurant | Heat Pump | New | building | 1,957 | 2.1% | 0.02 | 11 | \$146 | 49% | 0.2 |
| FE-Penn Power | Re-Commissioning (Existing Construction) | No Re-Commissioning | Restaurant | Heat Pump | Existing | building | 1,957 | 16% | 0.2 | 5 | \$12,732 | 86% | 0.0 |
| FE-Penn Power | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Restaurant | Heat Pump | New | measure | 2,695,700 | 2.0% | 6.2 | 13 | \$339,358 | 43% | 0.1 |
| FE-Penn Power | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Restaurant | Heat Pump | ROB | measure | 2,695,700 | 2.0% | 6.2 | 13 | \$339,358 | 43% | 0.1 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Restaurant | Heat Pump | Existing | building | 1,957 | 12% | 0.1 | 15 | \$6,404 | 26% | 0.0 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Restaurant | Heat Pump | New | building | 1,957 | 0.5% | 0.01 | 15 | \$4,912 | 94% | 0.0 |
| FE-Penn Power | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Restaurant | Heat Pump | Early | heat pump | 11,438 | 39% | 0.4 | 15 | \$35,347 | 28% | 0.1 |
| FE-Penn Power | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Restaurant | Heat Pump | New | heat pump | 11,064 | 37% | 0.4 | 15 | \$15,739 | 28% | 0.1 |
| FE-Penn Power | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Restaurant | Heat Pump | ROB | heat pump | 11,064 | 37% | 0.4 | 15 | \$15,739 | 28% | 0.1 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | Early | Fixture | 1,000 | 9.6% | 0.02 | 13 | \$850 | 39% | 0.1 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Restaurant | High Bay Lighting | Early | Fixture | 999 | 9.5% | 0.02 | 13 | \$850 | 28% | 0.1 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Restaurant | High Bay Lighting | Early | Fixture | 1,542 | 41% | 0.1 | 13 | \$850 | 36% | 0.4 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | New | Fixture | 760 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Restaurant | High Bay Lighting | New | Fixture | 707 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Restaurant | High Bay Lighting | New | Fixture | 1,172 | 41% | 0.09 | 13 | \$397 | 36% | 0.6 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 1,000 | 9.6% | 0.02 | 13 | \$372 | 39% | 0.1 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 930 | 2.9% | 0.01 | 13 | \$338 | 28% | 0.0 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 1,542 | 41% | 0.1 | 13 | \$397 | 36% | 0.8 |
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | Early | Fixture | 1,941 | 19% | 0.07 | 13 | \$851 | 38% | 0.2 |
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Restaurant | High Bay Lighting | Early | Fixture | 1,965 | 20% | 0.08 | 13 | \$851 | 38% | 0.2 |
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | Early | Fixture | 5,715 | 73% | 0.8 | 13 | \$851 | 38% | 2.6 |
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | New | Fixture | 1,475 | 19% | 0.05 | 13 | \$372 | 38% | 0.4 |
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | New | Fixture | 4,344 | 73% | 0.6 | 13 | \$383 | 38% | 4.3 |
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 1,941 | 19% | 0.07 | 13 | \$372 | 38% | 0.5 |
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 5,715 | 73% | 0.8 | 13 | \$383 | 38% | 5.7 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | Early | Fixture | 1,941 | 25% | 0.09 | 13 | \$554 | 29% | 0.5 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Restaurant | High Bay Lighting | Early | Fixture | 1,905 | 23% | 0.09 | 13 | \$554 | 28% | 0.4 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | Early | Fixture | 5,715 | 74% | 0.8 | 13 | \$554 | 36% | 4.0 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | New | Fixture | 1,475 | 25% | 0.07 | 13 | \$75 | 29% | 2.6 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | New | Fixture | 4,344 | 74% | 0.6 | 13 | \$86 | 36% | 19.8 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 1,941 | 25% | 0.09 | 13 | \$75 | 29% | 3.4 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 5,715 | 74% | 0.8 | 13 | \$86 | 36% | 26.1 |
| FE-Penn Power | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Restaurant | High Bay Lighting | Early | Fixture | 506 | 0.2% | 0.00 | 13 | \$835 | 38% | 0.0 |
| FE-Penn Power | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Restaurant | High Bay Lighting | Early | Fixture | 1,090 | 54% | 0.1 | 13 | \$835 | 38% | 0.4 |
| FE-Penn Power | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Restaurant | High Bay Lighting | New | Fixture | 828 | 54% | 0.09 | 13 | \$382 | 38% | 0.6 |
| FE-Penn Power | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 1,090 | 54% | 0.1 | 13 | \$382 | 38% | 0.8 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | Early | Fixture | 2,472 | 18% | 0.09 | 13 | \$487 | 25% | 0.5 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Restaurant | High Bay Lighting | Early | Fixture | 2,585 | 22% | 0.1 | 13 | \$487 | 28% | 0.6 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | Early | Fixture | 5,715 | 65% | 0.7 | 13 | \$487 | 36% | 4.0 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | New | Fixture | 1,879 | 18% | 0.07 | 13 | \$16 | 25% | 11.1 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | New | Fixture | 4,344 | 65% | 0.5 | 13 | \$18 | 36% | 80.2 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 2,472 | 18% | 0.09 | 13 | \$16 | 25% | 14.6 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 5,715 | 65% | 0.7 | 13 | \$18 | 36% | 105.5 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | Early | Fixture | 2,472 | 1.5% | 0.01 | 13 | \$557 | 19% | 0.0 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Restaurant | High Bay Lighting | Early | Fixture | 2,545 | 4.3% | 0.02 | 13 | \$557 | 19% | 0.1 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | Early | Fixture | 5,715 | 57% | 0.6 | 13 | \$557 | 19% | 3.1 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | New | Fixture | 1,879 | 1.5% | 0.01 | 13 | \$86 | 19% | 0.2 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | New | Fixture | 4,344 | 57% | 0.5 | 13 | \$88 | 19% | 14.8 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 2,472 | 1.5% | 0.01 | 13 | \$86 | 19% | 0.2 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 5,715 | 57% | 0.6 | 13 | \$88 | 19% | 19.5 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Restaurant | High Bay Lighting | Early | Fixture | 1,050 | 29% | 0.04 | 13 | \$492 | 71% | 0.3 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | Early | Fixture | 878 | 15% | 0.02 | 13 | \$492 | 95% | 0.1 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Restaurant | High Bay Lighting | Early | Fixture | 1,304 | 43% | 0.08 | 13 | \$492 | 95% | 0.6 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Restaurant | High Bay Lighting | Early | Fixture | 1,209 | 38% | 0.06 | 13 | \$492 | 95% | 0.5 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | New | Fixture | 667 | 15% | 0.01 | 13 | \$25 | 95% | 1.9 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Restaurant | High Bay Lighting | New | Fixture | 991 | 43% | 0.06 | 13 | \$51 | 95% | 4.0 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 878 | 15% | 0.02 | 13 | \$25 | 95% | 2.6 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 1,304 | 43% | 0.08 | 13 | \$51 | 95% | 5.3 |
| FE-Penn Power | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Restaurant | High Bay Lighting | Early | lamp | 120 | 16% | 0.00 | 9 | \$7.7 | 99% | 1.0 |
| FE-Penn Power | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Restaurant | High Bay Lighting | New | lamp | 72 | 13% | 0.00 | 9 | \$1.6 | 91% | 2.2 |
| FE-Penn Power | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Restaurant | High Bay Lighting | ROB | lamp | 116 | 13% | 0.00 | 9 | \$1.6 | 91% | 3.6 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|--|------------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | Early | Fixture | 5,848 | 23% | 0.3 | 13 | \$613 | 5% | 1.1 |
| FE-Penn Power | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Restaurant | High Bay Lighting | Early | Fixture | 4,595 | 1.6% | 0.01 | 13 | \$613 | 28% | 0.1 |
| FE-Penn Power | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | Early | Fixture | 11,431 | 60% | 1.3 | 13 | \$613 | 18% | 5.9 |
| FE-Penn Power | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | New | Fixture | 4,445 | 23% | 0.2 | 13 | \$96 | 5% | 5.5 |
| FE-Penn Power | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 5,848 | 23% | 0.3 | 13 | \$96 | 5% | 7.2 |
| FE-Penn Power | Auto Off Time Switch | Lighting w/ No Controls | Restaurant | High Bay Lighting | Existing | building | 309 | 24% | 0.2 | 8 | \$181 | 13% | 0.8 |
| FE-Penn Power | Auto Off Time Switch | Lighting w/ No Controls | Restaurant | High Bay Lighting | New | building | 309 | 6.9% | 0.07 | 8 | \$181 | 0% | 0.2 |
| FE-Penn Power | Central Lighting Control System | Lighting w/ No Controls | Restaurant | High Bay Lighting | Existing | building | 309 | 38% | 0.4 | 8 | \$181 | 13% | 1.3 |
| FE-Penn Power | Central Lighting Control System | Lighting w/ No Controls | Restaurant | High Bay Lighting | New | building | 309 | 14% | 0.1 | 8 | \$181 | 13% | 0.5 |
| FE-Penn Power | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Restaurant | High Bay Lighting | New | building | 309 | 10% | 0.1 | 15 | \$46,260 | 32% | 0.0 |
| FE-Penn Power | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Restaurant | High Bay Lighting | New | building | 309 | 15% | 0.2 | 15 | \$115,651 | 32% | 0.0 |
| FE-Penn Power | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Restaurant | High Bay Lighting | New | building | 309 | 30% | 0.3 | 15 | \$165,766 | 32% | 0.0 |
| FE-Penn Power | Indoor Daylight Sensors | Lighting w/ No Controls | Restaurant | High Bay Lighting | Existing | building | 309 | 28% | 0.3 | 8 | \$891 | 13% | 0.2 |
| FE-Penn Power | Indoor Daylight Sensors | Lighting w/ No Controls | Restaurant | High Bay Lighting | New | building | 309 | 4.0% | 0.04 | 8 | \$891 | 0% | 0.0 |
| FE-Penn Power | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | Early | Fixture | 5,848 | 92% | 1.0 | 13 | \$1,916 | 95% | 1.5 |
| FE-Penn Power | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | Early | Fixture | 11,431 | 96% | 2.1 | 13 | \$1,916 | 95% | 3.0 |
| FE-Penn Power | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | New | Fixture | 4,445 | 92% | 0.8 | 13 | \$1,468 | 95% | 1.5 |
| FE-Penn Power | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | New | Fixture | 8,687 | 96% | 1.6 | 13 | \$1,149 | 95% | 3.8 |
| FE-Penn Power | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 5,848 | 92% | 1.0 | 13 | \$1,468 | 95% | 1.9 |
| FE-Penn Power | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 11,431 | 96% | 2.1 | 13 | \$1,149 | 95% | 5.0 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | Early | Fixture | 1,941 | 67% | 0.3 | 13 | \$960 | 95% | 0.7 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Restaurant | High Bay Lighting | Early | Fixture | 5,715 | 89% | 1.0 | 13 | \$960 | 95% | 2.8 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Restaurant | High Bay Lighting | Early | Fixture | 1,568 | 59% | 0.2 | 13 | \$960 | 95% | 0.5 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | New | Fixture | 1,475 | 67% | 0.2 | 13 | \$480 | 95% | 1.1 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Restaurant | High Bay Lighting | New | Fixture | 4,344 | 89% | 0.7 | 13 | \$491 | 95% | 4.1 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Restaurant | High Bay Lighting | New | Fixture | 1,192 | 59% | 0.1 | 13 | \$406 | 95% | 0.9 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 1,941 | 67% | 0.3 | 13 | \$480 | 95% | 1.4 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 5,715 | 89% | 1.0 | 13 | \$491 | 95% | 5.4 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 1,568 | 59% | 0.2 | 13 | \$406 | 95% | 1.2 |
| FE-Penn Power | Occupancy Sensor | Lighting w/ No Controls | Restaurant | High Bay Lighting | Existing | building | 309 | 24% | 0.2 | 8 | \$273 | 12% | 0.5 |
| FE-Penn Power | Occupancy Sensor | Lighting w/ No Controls | Restaurant | High Bay Lighting | New | building | 309 | 6.9% | 0.07 | 8 | \$273 | 0% | 0.2 |
| FE-Penn Power | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Restaurant | High Bay Lighting | Existing | building | 309 | 28% | 0.3 | 8 | \$891 | 12% | 0.2 |
| FE-Penn Power | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Restaurant | High Bay Lighting | New | building | 309 | 4.0% | 0.04 | 8 | \$891 | 0% | 0.0 |
| FE-Penn Power | Time Clock Control | Lighting w/ No Controls | Restaurant | High Bay Lighting | Existing | building | 309 | 28% | 0.3 | 8 | \$181 | 13% | 1.0 |
| FE-Penn Power | Time Clock Control | Lighting w/ No Controls | Restaurant | High Bay Lighting | New | building | 309 | 4.1% | 0.04 | 8 | \$181 | 0% | 0.1 |
| FE-Penn Power | Auto Off Time Switch | Lighting w/ No Controls | Restaurant | Lin. Fluor. Lighting | Existing | building | 8,749 | 24% | 0.2 | 8 | \$181 | 13% | 3.9 |
| FE-Penn Power | Auto Off Time Switch | Lighting w/ No Controls | Restaurant | Lin. Fluor. Lighting | New | building | 8,749 | 7.0% | 0.07 | 8 | \$181 | 0% | 1.1 |
| FE-Penn Power | Central Lighting Control System | Lighting w/ No Controls | Restaurant | Lin. Fluor. Lighting | Existing | building | 8,749 | 38% | 0.4 | 8 | \$181 | 12% | 6.2 |
| FE-Penn Power | Central Lighting Control System | Lighting w/ No Controls | Restaurant | Lin. Fluor. Lighting | New | building | 8,749 | 14% | 0.1 | 8 | \$181 | 12% | 2.3 |
| FE-Penn Power | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Restaurant | Lin. Fluor. Lighting | New | building | 8,749 | 10% | 0.1 | 15 | \$46,260 | 32% | 0.0 |
| FE-Penn Power | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Restaurant | Lin. Fluor. Lighting | New | building | 8,749 | 15% | 0.2 | 15 | \$115,651 | 32% | 0.0 |
| FE-Penn Power | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Restaurant | Lin. Fluor. Lighting | New | building | 8,749 | 30% | 0.3 | 15 | \$165,766 | 32% | 0.0 |
| FE-Penn Power | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Restaurant | Lin. Fluor. Lighting | Early | Lamp | 242 | 38% | 0.01 | 9 | \$7.3 | 94% | 4.9 |
| FE-Penn Power | Indoor Daylight Sensors | Lighting w/ No Controls | Restaurant | Lin. Fluor. Lighting | Existing | building | 8,749 | 28% | 0.3 | 8 | \$891 | 13% | 0.9 |
| FE-Penn Power | Indoor Daylight Sensors | Lighting w/ No Controls | Restaurant | Lin. Fluor. Lighting | New | building | 8,749 | 4.1% | 0.04 | 8 | \$891 | 0% | 0.1 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | Early | Lamp | 109 | 19% | 0.00 | 11 | \$35 | 94% | 0.3 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 40W T12 Lamp, Magnetic Ballast | Restaurant | Lin. Fluor. Lighting | Early | Lamp | 240 | 63% | 0.03 | 11 | \$35 | 94% | 2.1 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | Early | Lamp | 135 | 34% | 0.01 | 11 | \$35 | 94% | 0.6 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | Early | Lamp | 131 | 32% | 0.01 | 11 | \$35 | 94% | 0.6 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | New | Lamp | 83 | 19% | 0.00 | 11 | \$28 | 94% | 0.3 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | New | Lamp | 99 | 32% | 0.01 | 11 | \$29 | 94% | 0.5 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | New | Lamp | 102 | 34% | 0.01 | 11 | \$22 | 94% | 0.8 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | New | Lamp | 99 | 32% | 0.01 | 11 | \$29 | 94% | 0.5 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | ROB | Lamp | 109 | 19% | 0.00 | 11 | \$28 | 94% | 0.4 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | ROB | Lamp | 131 | 32% | 0.01 | 11 | \$29 | 94% | 0.7 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | ROB | Lamp | 135 | 34% | 0.01 | 11 | \$22 | 94% | 1.0 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | ROB | Lamp | 131 | 32% | 0.01 | 11 | \$29 | 94% | 0.7 |
| FE-Penn Power | Occupancy Sensor | Lighting w/ No Controls | Restaurant | Lin. Fluor. Lighting | Existing | building | 8,749 | 24% | 0.2 | 8 | \$273 | 13% | 2.6 |
| FE-Penn Power | Occupancy Sensor | Lighting w/ No Controls | Restaurant | Lin. Fluor. Lighting | New | building | 8,749 | 7.0% | 0.07 | 8 | \$273 | 0% | 0.8 |
| FE-Penn Power | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Restaurant | Lin. Fluor. Lighting | Existing | building | 8,749 | 28% | 0.3 | 8 | \$891 | 12% | 0.9 |
| FE-Penn Power | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Restaurant | Lin. Fluor. Lighting | New | building | 8,749 | 4.1% | 0.04 | 8 | \$891 | 0% | 0.1 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 40W T12 w/ Magnetic Ballast | Restaurant | Lin. Fluor. Lighting | Early | Lamp | 242 | 54% | 0.02 | 9 | \$9.1 | 94% | 5.6 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | Early | Lamp | 155 | 28% | 0.01 | 9 | \$9.1 | 24% | 1.9 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | Early | Lamp | 150 | 26% | 0.01 | 9 | \$9.1 | 94% | 1.7 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | New | Lamp | 114 | 26% | 0.00 | 9 | \$2.5 | 94% | 4.5 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | New | Lamp | 114 | 26% | 0.00 | 9 | \$2.5 | 94% | 4.5 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|--|------------|---------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Downsizing motor during retrofit | Larger hp standard motor | Restaurant | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 18.8 |
| FE-Penn Power | Downsizing motor during retrofit | Larger hp standard motor | Restaurant | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 19.1 |
| FE-Penn Power | Downsizing motor during retrofit | Larger hp standard motor | Restaurant | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 17.9 |
| FE-Penn Power | Downsizing motor during retrofit | Larger hp standard motor | Restaurant | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 17.9 |
| FE-Penn Power | Downsizing motor during retrofit | Larger hp standard motor | Restaurant | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 18.4 |
| FE-Penn Power | Downsizing motor during retrofit | Larger hp standard motor | Restaurant | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 18.8 |
| FE-Penn Power | Downsizing motor during retrofit | Larger hp standard motor | Restaurant | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 19.2 |
| FE-Penn Power | Escalator Motor Controller | Constant power control | Restaurant | Motors | New | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 22% | 4.8 |
| FE-Penn Power | Escalator Motor Controller | Constant power control | Restaurant | Motors | ROB | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 22% | 4.8 |
| FE-Penn Power | Fan Motor - correct sizing | Incorrect Fan Motor Sizing | Restaurant | Motors | ROB | measure | 1,593 | 1.6% | 0.00 | 15 | \$50 | 92% | 0.3 |
| FE-Penn Power | Variable Speed Drive Control, 15HP | Existing Motors w/out VSD Drive | Restaurant | Motors | Early | motor | 58,097 | 70% | 5.4 | 15 | \$731 | 86% | 28.5 |
| FE-Penn Power | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Restaurant | Motors | New | motor | 56,848 | 71% | 5.4 | 15 | \$731 | 86% | 28.5 |
| FE-Penn Power | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Restaurant | Motors | ROB | motor | 56,848 | 71% | 5.4 | 15 | \$731 | 86% | 28.5 |
| FE-Penn Power | Variable Speed Drive Control, 40HP | Existing Motors w/out VSD Drive | Restaurant | Motors | Early | motor | 151,594 | 71% | 14.2 | 15 | \$4,666 | 86% | 11.8 |
| FE-Penn Power | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Restaurant | Motors | New | motor | 149,822 | 72% | 14.2 | 15 | \$4,666 | 86% | 11.8 |
| FE-Penn Power | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Restaurant | Motors | ROB | motor | 149,822 | 72% | 14.2 | 15 | \$4,666 | 86% | 11.8 |
| FE-Penn Power | Variable Speed Drive Control, 5HP | Existing Motors w/out VFD Drive | Restaurant | Motors | Early | motor | 20,140 | 70% | 1.9 | 15 | \$2,243 | 86% | 3.2 |
| FE-Penn Power | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Restaurant | Motors | New | motor | 19,690 | 72% | 1.9 | 15 | \$2,243 | 86% | 3.2 |
| FE-Penn Power | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Restaurant | Motors | ROB | motor | 19,690 | 72% | 1.9 | 15 | \$2,243 | 86% | 3.2 |
| FE-Penn Power | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Restaurant | Motors | Early | motor | 1,863 | 60% | 0.1 | 15 | \$268 | 86% | 2.1 |
| FE-Penn Power | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Restaurant | Motors | New | motor | 1,863 | 60% | 0.1 | 15 | \$268 | 86% | 2.1 |
| FE-Penn Power | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Restaurant | Motors | ROB | motor | 1,863 | 60% | 0.1 | 15 | \$268 | 86% | 2.1 |
| FE-Penn Power | VFD on Chilled Water Pump | Motor w/out VFD Drive | Restaurant | Motors | Early | motor | 15,992 | 54% | 2.7 | 15 | \$2,903 | 86% | 1.9 |
| FE-Penn Power | VFD on Chilled Water Pump | Motor w/out VFD Drive | Restaurant | Motors | New | motor | 15,693 | 55% | 2.7 | 15 | \$2,843 | 86% | 2.0 |
| FE-Penn Power | VFD on Chilled Water Pump | Motor w/out VFD Drive | Restaurant | Motors | ROB | motor | 15,693 | 55% | 2.7 | 15 | \$2,843 | 86% | 2.0 |
| FE-Penn Power | VFD on Condenser Water Pump | Motor w/out VFD Drive | Restaurant | Motors | Early | motor | 15,905 | 32% | 3.2 | 15 | \$2,903 | 86% | 1.6 |
| FE-Penn Power | VFD on Condenser Water Pump | Motor w/out VFD Drive | Restaurant | Motors | New | motor | 15,607 | 33% | 3.1 | 15 | \$2,843 | 86% | 1.6 |
| FE-Penn Power | VFD on Condenser Water Pump | Motor w/out VFD Drive | Restaurant | Motors | ROB | motor | 15,607 | 33% | 3.1 | 15 | \$2,843 | 86% | 1.6 |
| FE-Penn Power | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Restaurant | Motors | Early | motor | 29,846 | 56% | 0.00 | 15 | \$2,903 | 86% | 2.3 |
| FE-Penn Power | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Restaurant | Motors | New | motor | 29,288 | 57% | 0.00 | 15 | \$2,843 | 86% | 2.4 |
| FE-Penn Power | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Restaurant | Motors | ROB | motor | 29,288 | 57% | 0.00 | 15 | \$2,843 | 86% | 2.4 |
| FE-Penn Power | VFD on HVAC Fan | Motor w/out VFD | Restaurant | Motors | Early | motor | 15,992 | 70% | 3.4 | 15 | \$2,903 | 86% | 2.5 |
| FE-Penn Power | VFD on HVAC Fan | Motor w/out VFD | Restaurant | Motors | New | motor | 15,693 | 72% | 3.3 | 15 | \$2,843 | 86% | 2.5 |
| FE-Penn Power | VFD on HVAC Fan | Motor w/out VFD | Restaurant | Motors | ROB | motor | 15,693 | 72% | 3.3 | 15 | \$2,843 | 86% | 2.5 |
| FE-Penn Power | Elevators | Std. Eff Elevator | Restaurant | Other | ROB | measure | 89,016 | 4.7% | 0.2 | 15 | \$443 | 81% | 4.2 |
| FE-Penn Power | Variable Speed Drives on Process Equipment | Constant speed control | Restaurant | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 9.2 |
| FE-Penn Power | Variable Speed Drives on Process Equipment | Constant speed control | Restaurant | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 9.2 |
| FE-Penn Power | Auto Off Time Switch | Lighting w/ No Controls | Restaurant | Other Int. Lighting | Existing | building | 2,554 | 24% | 0.2 | 8 | \$181 | 13% | 1.6 |
| FE-Penn Power | Auto Off Time Switch | Lighting w/ No Controls | Restaurant | Other Int. Lighting | New | building | 2,554 | 7.0% | 0.07 | 8 | \$181 | 0% | 0.5 |
| FE-Penn Power | Central Lighting Control System | Lighting w/ No Controls | Restaurant | Other Int. Lighting | Existing | building | 2,554 | 38% | 0.4 | 8 | \$181 | 13% | 2.6 |
| FE-Penn Power | Central Lighting Control System | Lighting w/ No Controls | Restaurant | Other Int. Lighting | New | building | 2,554 | 14% | 0.1 | 8 | \$181 | 13% | 1.0 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 40W Incandescent Bulb | Restaurant | Other Int. Lighting | Early | lamp | 253 | 87% | 0.05 | 5 | \$30 | 14% | 2.0 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Restaurant | Other Int. Lighting | Early | lamp | 181 | 81% | 0.03 | 5 | \$23 | 11% | 1.3 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Restaurant | Other Int. Lighting | New | lamp | 138 | 81% | 0.02 | 5 | \$21 | 14% | 1.4 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Restaurant | Other Int. Lighting | New | lamp | 138 | 81% | 0.02 | 5 | \$23 | 14% | 1.3 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Restaurant | Other Int. Lighting | New | lamp | 138 | 81% | 0.02 | 5 | \$22 | 11% | 1.4 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Restaurant | Other Int. Lighting | ROB | lamp | 181 | 81% | 0.03 | 5 | \$21 | 14% | 1.9 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Restaurant | Other Int. Lighting | ROB | lamp | 181 | 81% | 0.03 | 5 | \$23 | 14% | 1.8 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Restaurant | Other Int. Lighting | ROB | lamp | 181 | 81% | 0.03 | 5 | \$22 | 11% | 1.8 |
| FE-Penn Power | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Restaurant | Other Int. Lighting | Early | lamp | 253 | 75% | 0.04 | 2 | \$73 | 24% | 0.3 |
| FE-Penn Power | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Restaurant | Other Int. Lighting | New | fixture | 275 | 65% | 0.04 | 13 | \$29 | 28% | 3.4 |
| FE-Penn Power | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Restaurant | Other Int. Lighting | New | lamp | 138 | 65% | 0.02 | 2 | \$29 | 28% | 0.4 |
| FE-Penn Power | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Restaurant | Other Int. Lighting | ROB | fixture | 362 | 65% | 0.05 | 13 | \$29 | 24% | 4.4 |
| FE-Penn Power | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Restaurant | Other Int. Lighting | ROB | lamp | 181 | 65% | 0.03 | 2 | \$29 | 24% | 0.5 |
| FE-Penn Power | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Restaurant | Other Int. Lighting | Early | lamp | 253 | 75% | 0.04 | 2 | \$3.2 | 24% | 7.3 |
| FE-Penn Power | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Restaurant | Other Int. Lighting | New | lamp | 138 | 65% | 0.02 | 2 | \$1.8 | 24% | 6.2 |
| FE-Penn Power | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Restaurant | Other Int. Lighting | ROB | lamp | 181 | 65% | 0.03 | 2 | \$1.8 | 24% | 8.2 |
| FE-Penn Power | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Restaurant | Other Int. Lighting | ROB | lamp | 181 | 65% | 0.03 | 2 | \$1.8 | 24% | 8.2 |
| FE-Penn Power | Exit Sign Retrofit: CFL replacing Incandescent | One 23W Single Sided Incandescent Exit Sign | Restaurant | Other Int. Lighting | Early | exit sign | 121 | 42% | 0.01 | 15 | \$48 | 22% | 0.6 |
| FE-Penn Power | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Restaurant | Other Int. Lighting | New | building | 2,554 | 10% | 0.1 | 15 | \$46,260 | 32% | 0.0 |
| FE-Penn Power | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Restaurant | Other Int. Lighting | New | building | 2,554 | 15% | 0.2 | 15 | \$115,651 | 32% | 0.0 |
| FE-Penn Power | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Restaurant | Other Int. Lighting | New | building | 2,554 | 30% | 0.3 | 15 | \$165,766 | 32% | 0.0 |
| FE-Penn Power | Indoor Daylight Sensors | Lighting w/ No Controls | Restaurant | Other Int. Lighting | Existing | building | 2,554 | 28% | 0.3 | 8 | \$891 | 13% | 0.4 |
| FE-Penn Power | Indoor Daylight Sensors | Lighting w/ No Controls | Restaurant | Other Int. Lighting | New | building | 2,554 | 4.1% | 0.04 | 8 | \$891 | 0% | 0.1 |
| FE-Penn Power | LED Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Restaurant | Other Int. Lighting | Early | sign | 153 | 87% | 0.02 | 15 | \$48 | 16% | 1.5 |
| FE-Penn Power | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Restaurant | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 1.6 |
| FE-Penn Power | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Restaurant | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 1.6 |
| FE-Penn Power | LED Task Lighting/Screw-In | 1 15W CFL bulb | Restaurant | Other Int. Lighting | Early | lamp | 41 | 33% | 0.00 | 8 | \$9.6 | 24% | 0.6 |
| FE-Penn Power | LED Task Lighting/Screw-In | 1 60W Incandescent Bulb | Restaurant | Other Int. Lighting | Early | lamp | 163 | 83% | 0.03 | 8 | \$9.6 | 24% | 5.7 |
| FE-Penn Power | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Restaurant | Other Int. Lighting | New | lamp | 89 | 77% | 0.02 | 8 | \$7.9 | 24% | 3.4 |
| FE-Penn Power | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Restaurant | Other Int. Lighting | New | lamp | 89 | 77% | 0.02 | 8 | \$7.9 | 24% | 3.4 |
| FE-Penn Power | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Restaurant | Other Int. Lighting | ROB | lamp | 116 | 77% | 0.02 | 8 | \$7.9 | 24% | 4.5 |
| FE-Penn Power | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Restaurant | Other Int. Lighting | ROB | lamp | 116 | 77% | 0.02 | 8 | \$7.9 | 24% | 4.5 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|--|---|------------|---------------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Occupancy Sensor | Lighting w/ No Controls | Restaurant | Other Int. Lighting | Existing | building | 2,554 | 24% | 0.2 | 8 | \$273 | 12% | 1.1 |
| FE-Penn Power | Occupancy Sensor | Lighting w/ No Controls | Restaurant | Other Int. Lighting | New | building | 2,554 | 7.0% | 0.07 | 8 | \$273 | 0% | 0.3 |
| FE-Penn Power | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Restaurant | Other Int. Lighting | Existing | building | 2,554 | 28% | 0.3 | 8 | \$891 | 12% | 0.4 |
| FE-Penn Power | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Restaurant | Other Int. Lighting | New | building | 2,554 | 4.1% | 0.04 | 8 | \$891 | 0% | 0.1 |
| FE-Penn Power | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Restaurant | Other Int. Lighting | Early | exit sign | 121 | 100% | 0.02 | 15 | \$173 | 26% | 0.4 |
| FE-Penn Power | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Restaurant | Other Int. Lighting | New | exit sign | 70 | 100% | 0.01 | 15 | \$148 | 31% | 0.3 |
| FE-Penn Power | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Restaurant | Other Int. Lighting | ROB | exit sign | 70 | 100% | 0.01 | 15 | \$148 | 26% | 0.3 |
| FE-Penn Power | Time Clock Control | Lighting w/ No Controls | Restaurant | Other Int. Lighting | Existing | building | 2,554 | 28% | 0.3 | 8 | \$181 | 13% | 1.9 |
| FE-Penn Power | Time Clock Control | Lighting w/ No Controls | Restaurant | Other Int. Lighting | New | building | 2,554 | 4.1% | 0.04 | 8 | \$181 | 0% | 0.3 |
| FE-Penn Power | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Restaurant | Plug Load | Existing | building | 2,913 | 46% | 0.5 | 5 | \$189 | 4% | 2.2 |
| FE-Penn Power | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Restaurant | Plug Load | New | building | 1,422 | 46% | 0.5 | 5 | \$189 | 4% | 1.5 |
| FE-Penn Power | Data Center - Server/Storage Consolidation | No Consolidation | Restaurant | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penn Power | Data Center - Server/Storage Consolidation | No Consolidation | Restaurant | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penn Power | Data Center - Server/Storage Virtualization | No Virtualization | Restaurant | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penn Power | Data Center - Server/Storage Virtualization | No Virtualization | Restaurant | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penn Power | Energy Star - Scanners | Std Scanner | Restaurant | Plug Load | New | measure | 68 | 3.8% | 0.04 | 4 | \$130 | 7% | 0.1 |
| FE-Penn Power | Energy Star - Scanners | Std Scanner | Restaurant | Plug Load | ROB | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| FE-Penn Power | Energy Star Dishwasher | Existing Dishwasher units | Restaurant | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,580 | 23% | 0.9 |
| FE-Penn Power | Energy Star Dishwasher | Standard Dishwasher unit | Restaurant | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 23% | 2.8 |
| FE-Penn Power | Energy Star Dishwasher | Standard Dishwasher unit | Restaurant | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 23% | 2.8 |
| FE-Penn Power | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Restaurant | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 17% | 0.1 |
| FE-Penn Power | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Restaurant | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 1.7 |
| FE-Penn Power | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Restaurant | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 1.7 |
| FE-Penn Power | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Restaurant | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 9% | 0.7 |
| FE-Penn Power | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Restaurant | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.5 |
| FE-Penn Power | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Restaurant | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.5 |
| FE-Penn Power | ENERGY STAR® Copiers | 10% Less Efficient Copier | Restaurant | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 18% | 0.0 |
| FE-Penn Power | ENERGY STAR® Copiers | One Conventional Copier | Restaurant | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| FE-Penn Power | ENERGY STAR® Copiers | One Conventional Copier | Restaurant | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| FE-Penn Power | ENERGY STAR® desktop | Standard computer | Restaurant | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 69% | 0.1 |
| FE-Penn Power | ENERGY STAR® desktop | Standard computer | Restaurant | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.2 |
| FE-Penn Power | ENERGY STAR® desktop | Standard computer | Restaurant | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.2 |
| FE-Penn Power | ENERGY STAR® Fax | 10% Less Efficient Fax | Restaurant | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 15% | 0.0 |
| FE-Penn Power | ENERGY STAR® Fax | One Conventional Fax | Restaurant | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.1 |
| FE-Penn Power | ENERGY STAR® Fax | One Conventional Fax | Restaurant | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.1 |
| FE-Penn Power | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Restaurant | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 70% | 0.0 |
| FE-Penn Power | ENERGY STAR® Monitors | One Conventional Monitor | Restaurant | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| FE-Penn Power | ENERGY STAR® Monitors | One Conventional Monitor | Restaurant | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| FE-Penn Power | ENERGY STAR® Printers | 10% Less Efficient Printer | Restaurant | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 44% | 0.0 |
| FE-Penn Power | ENERGY STAR® Printers | One Conventional Printer | Restaurant | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| FE-Penn Power | ENERGY STAR® Printers | One Conventional Printer | Restaurant | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| FE-Penn Power | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Restaurant | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 43% | 0.1 |
| FE-Penn Power | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Restaurant | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.6 |
| FE-Penn Power | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Restaurant | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.6 |
| FE-Penn Power | ENERGY STAR® Televisions | 10% Less Efficient Television | Restaurant | Plug Load | Early | Unit | 371 | 38% | 0.02 | 6 | \$672 | 40% | 0.1 |
| FE-Penn Power | ENERGY STAR® Televisions | One Conventional Television | Restaurant | Plug Load | New | Unit | 337 | 32% | 0.02 | 6 | \$206 | 40% | 0.1 |
| FE-Penn Power | ENERGY STAR® Televisions | One Conventional Television | Restaurant | Plug Load | ROB | Unit | 337 | 32% | 0.02 | 6 | \$206 | 40% | 0.1 |
| FE-Penn Power | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Restaurant | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 24% | 0.2 |
| FE-Penn Power | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Restaurant | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.5 |
| FE-Penn Power | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Restaurant | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.5 |
| FE-Penn Power | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Restaurant | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 51% | 0.2 |
| FE-Penn Power | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Restaurant | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 51% | 0.2 |
| FE-Penn Power | Network PC Power Management | No PC Power Management | Restaurant | Plug Load | Existing | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 5.2 |
| FE-Penn Power | Network PC Power Management | No PC Power Management | Restaurant | Plug Load | New | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 5.2 |
| FE-Penn Power | Smart Strip Plug Outlets | Standard plug strip/outlet | Restaurant | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.3 |
| FE-Penn Power | Smart Strip Plug Outlets | Standard plug strip/outlet | Restaurant | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.3 |
| FE-Penn Power | Smart Strip Plug Outlets | Standard plug strip/outlet | Restaurant | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| FE-Penn Power | Smart Strip Plug Outlets | Standard plug strip/outlet | Restaurant | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| FE-Penn Power | Smart Strip Plug Outlets | Standard plug strip/outlet | Restaurant | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| FE-Penn Power | Smart Strip Plug Outlets | Standard plug strip/outlet | Restaurant | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| FE-Penn Power | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Restaurant | Plug Load | Existing | building | 2,913 | 46% | 0.5 | 5 | \$180 | 3% | 2.3 |
| FE-Penn Power | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Restaurant | Plug Load | New | building | 1,422 | 46% | 0.5 | 5 | \$180 | 3% | 1.6 |
| FE-Penn Power | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Restaurant | Refrigeration | Existing | building | 2,948 | 6.1% | 0.06 | 12 | \$70 | 11% | 1.5 |
| FE-Penn Power | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Restaurant | Refrigeration | New | building | 2,948 | 6.1% | 0.06 | 12 | \$70 | 11% | 1.5 |
| FE-Penn Power | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Restaurant | Refrigeration | Existing | building | 2,948 | 0.9% | 0.01 | 12 | \$70 | 11% | 0.2 |
| FE-Penn Power | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Restaurant | Refrigeration | New | building | 2,948 | 0.9% | 0.01 | 12 | \$70 | 11% | 0.2 |
| FE-Penn Power | Auto Closer on Refrigerator Door | Door w/out Autocloser | Restaurant | Refrigeration | Existing | building | 8,843 | 8.2% | 0.08 | 8 | \$770 | 40% | 0.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|---|------------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Auto Closer on Refrigerator Door | Door w/out Autocloser | Restaurant | Refrigeration | Existing | building | 21,396 | 4.5% | 0.05 | 8 | \$766 | 40% | 0.4 |
| FE-Penn Power | Auto Closer on Refrigerator Door | Door w/out Autocloser | Restaurant | Refrigeration | New | building | 8,843 | 8.2% | 0.08 | 8 | \$770 | 40% | 0.3 |
| FE-Penn Power | Auto Closer on Refrigerator Door | Door w/out Autocloser | Restaurant | Refrigeration | New | building | 21,396 | 4.5% | 0.05 | 8 | \$766 | 40% | 0.4 |
| FE-Penn Power | Demand Hot Gas Defrost | Base Refrigeration System | Restaurant | Refrigeration | Existing | building | 2,948 | 3.0% | 0.03 | 10 | \$1,325 | 0% | 0.0 |
| FE-Penn Power | Demand Hot Gas Defrost | Base Refrigeration System | Restaurant | Refrigeration | New | building | 2,948 | 3.0% | 0.03 | 10 | \$1,325 | 0% | 0.0 |
| FE-Penn Power | Door Gasket- Freezer | Door w/out Gasket | Restaurant | Refrigeration | Existing | building | 8,843 | 4.4% | 0.04 | 4 | \$79 | 29% | 0.9 |
| FE-Penn Power | Door Gasket- Freezer | Door w/out Gasket | Restaurant | Refrigeration | New | building | 8,843 | 5.5% | 0.06 | 4 | \$79 | 29% | 1.1 |
| FE-Penn Power | Door Gasket- Refrigerator | Door w/out Gasket | Restaurant | Refrigeration | Existing | building | 21,396 | 1.7% | 0.02 | 4 | \$106 | 45% | 0.6 |
| FE-Penn Power | Door Gasket- Refrigerator | Door w/out Gasket | Restaurant | Refrigeration | New | building | 21,396 | 1.7% | 0.02 | 4 | \$106 | 45% | 0.6 |
| FE-Penn Power | eCube | Refrigeration unit w/out eCube | Restaurant | Refrigeration | Existing | building | 21,396 | 15% | 0.2 | 15 | \$1,946 | 57% | 0.7 |
| FE-Penn Power | eCube | Refrigeration unit w/out eCube | Restaurant | Refrigeration | New | building | 21,396 | 15% | 0.2 | 15 | \$1,946 | 57% | 0.7 |
| FE-Penn Power | Efficient compressor motor | Base Refrigeration System - Grocery | Restaurant | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.3 |
| FE-Penn Power | Efficient compressor motor | Base Refrigeration System - Grocery | Restaurant | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.4 |
| FE-Penn Power | Efficient compressor motor | Base Refrigeration System - Grocery | Restaurant | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.3 |
| FE-Penn Power | Efficient compressor motor | Base Refrigeration System - Grocery | Restaurant | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.4 |
| FE-Penn Power | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Restaurant | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.4 |
| FE-Penn Power | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Restaurant | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.2 |
| FE-Penn Power | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Restaurant | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.2 |
| FE-Penn Power | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Restaurant | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.2 |
| FE-Penn Power | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Restaurant | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.6 |
| FE-Penn Power | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Restaurant | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.6 |
| FE-Penn Power | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Restaurant | Refrigeration | Existing | building | 21,396 | 1.5% | 0.02 | 10 | \$369 | 77% | 0.3 |
| FE-Penn Power | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Restaurant | Refrigeration | New | building | 21,396 | 1.5% | 0.02 | 10 | \$369 | 77% | 0.3 |
| FE-Penn Power | Floating head pressure controller | System w/out FHPC | Restaurant | Refrigeration | Existing | building | 8,843 | 2.6% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penn Power | Floating head pressure controller | System w/out FHPC | Restaurant | Refrigeration | Existing | building | 2,948 | 3.2% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penn Power | Floating head pressure controller | System w/out FHPC | Restaurant | Refrigeration | Existing | building | 21,396 | 0.4% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penn Power | Floating head pressure controller | System w/out FHPC | Restaurant | Refrigeration | New | building | 8,843 | 2.6% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penn Power | Floating head pressure controller | System w/out FHPC | Restaurant | Refrigeration | New | building | 21,396 | 0.4% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penn Power | Floating head pressure controller | System w/out FHPC | Restaurant | Refrigeration | New | building | 2,948 | 3.2% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penn Power | High Efficiency Commercial Freezer | Std. Commercial Freezer | Restaurant | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 79% | 0.3 |
| FE-Penn Power | High Efficiency Commercial Freezer | Std. Commercial Freezer | Restaurant | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 79% | 3.2 |
| FE-Penn Power | High Efficiency Commercial Freezer | Std. Commercial Freezer | Restaurant | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 79% | 3.2 |
| FE-Penn Power | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Restaurant | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 79% | 0.1 |
| FE-Penn Power | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Restaurant | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 79% | 0.7 |
| FE-Penn Power | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Restaurant | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 79% | 0.7 |
| FE-Penn Power | High Efficiency Ice Maker | Exisiting Standard Efficiency Ice Maker in Pennsylvania | Restaurant | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 69% | 0.1 |
| FE-Penn Power | High Efficiency Ice Maker | Standard code minimum Ice Maker | Restaurant | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.1 |
| FE-Penn Power | High Efficiency Ice Maker | Standard code minimum Ice Maker | Restaurant | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 69% | 0.1 |
| FE-Penn Power | High Efficiency Ice Making Head | Standard Ice Making Head | Restaurant | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.2 |
| FE-Penn Power | High Efficiency Ice Making Head | Standard Ice Making Head | Restaurant | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.2 |
| FE-Penn Power | High R-Value Glass Doors | Base Refrigeration System - Grocery | Restaurant | Refrigeration | Existing | building | 2,948 | 0.7% | 0.01 | 10 | \$51 | 0% | 0.2 |
| FE-Penn Power | High R-Value Glass Doors | Base Refrigeration System - Grocery | Restaurant | Refrigeration | New | building | 2,948 | 0.7% | 0.01 | 10 | \$51 | 0% | 0.2 |
| FE-Penn Power | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Restaurant | Refrigeration | Early | Fixture | 373 | 56% | 0.03 | 8 | \$448 | 89% | 0.2 |
| FE-Penn Power | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Restaurant | Refrigeration | New | Fixture | 291 | 44% | 0.02 | 8 | \$139 | 89% | 0.3 |
| FE-Penn Power | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Restaurant | Refrigeration | ROB | Fixture | 291 | 44% | 0.02 | 8 | \$139 | 89% | 0.3 |
| FE-Penn Power | No-heat glass doors | Standard low-temp reach-in | Restaurant | Refrigeration | Existing | building | 2,948 | 20% | 0.2 | 10 | \$4,638 | 8% | 0.1 |
| FE-Penn Power | No-heat glass doors | Standard low-temp reach-in | Restaurant | Refrigeration | New | building | 2,948 | 20% | 0.2 | 10 | \$4,638 | 8% | 0.1 |
| FE-Penn Power | Quick acting freezer doors | Std. Freezer Doors | Restaurant | Refrigeration | Existing | building | 8,843 | 13% | 0.1 | 10 | \$2,729 | 56% | 0.2 |
| FE-Penn Power | Quick acting freezer doors | Std. Freezer Doors | Restaurant | Refrigeration | New | building | 8,843 | 13% | 0.1 | 10 | \$2,729 | 56% | 0.2 |
| FE-Penn Power | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Restaurant | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 29% | 0.3 |
| FE-Penn Power | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Restaurant | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 29% | 1.3 |
| FE-Penn Power | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Restaurant | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 29% | 1.3 |
| FE-Penn Power | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 29% | 1.3 |
| FE-Penn Power | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 29% | 2.2 |
| FE-Penn Power | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 29% | 2.2 |
| FE-Penn Power | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 29% | 1.3 |
| FE-Penn Power | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 29% | 3.0 |
| FE-Penn Power | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 29% | 3.0 |
| FE-Penn Power | Refrigeration Commissioning | Non-commissioned refrigeration system | Restaurant | Refrigeration | Existing | building | 34,390 | 9.5% | 0.10 | 3 | \$4,759 | 85% | 0.1 |
| FE-Penn Power | Refrigeration Commissioning | Non-commissioned refrigeration system | Restaurant | Refrigeration | New | building | 34,390 | 9.5% | 0.10 | 3 | \$4,759 | 85% | 0.1 |
| FE-Penn Power | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Restaurant | Refrigeration | Existing | building | 8,843 | 11% | 0.1 | 4 | \$96 | 22% | 1.8 |
| FE-Penn Power | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Restaurant | Refrigeration | Existing | building | 21,396 | 2.0% | 0.02 | 4 | \$128 | 22% | 0.5 |
| FE-Penn Power | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Restaurant | Refrigeration | New | building | 8,843 | 11% | 0.1 | 4 | \$96 | 22% | 1.8 |
| FE-Penn Power | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Restaurant | Refrigeration | New | building | 21,396 | 2.0% | 0.02 | 4 | \$128 | 22% | 0.5 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|---|------------|-----------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Restaurant | Refrigeration | Existing | building | 8,843 | 2.2% | 0.02 | 11 | \$148 | 77% | 0.5 |
| FE-Penn Power | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Restaurant | Refrigeration | New | building | 8,843 | 2.2% | 0.02 | 11 | \$148 | 77% | 0.5 |
| FE-Penn Power | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Restaurant | Refrigeration | Existing | building | 21,396 | 1.6% | 0.02 | 11 | \$148 | 77% | 0.8 |
| FE-Penn Power | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Restaurant | Refrigeration | New | building | 21,396 | 1.6% | 0.02 | 11 | \$148 | 77% | 0.8 |
| FE-Penn Power | Vertical Night Covers | Display cases w/out night covers-High Temperature | Restaurant | Refrigeration | Existing | building | 2,948 | 0.1% | 0.00 | 5 | \$38 | 9% | 0.0 |
| FE-Penn Power | Vertical Night Covers | Display cases w/out night covers-High Temperature | Restaurant | Refrigeration | New | building | 2,948 | 0.1% | 0.00 | 5 | \$38 | 9% | 0.0 |
| FE-Penn Power | VSD Controlled Compressor | Compressor w/out VSD | Restaurant | Refrigeration | Early | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 73% | 0.1 |
| FE-Penn Power | VSD Controlled Compressor | Compressor w/out VSD | Restaurant | Refrigeration | New | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 73% | 0.1 |
| FE-Penn Power | VSD Controlled Compressor | Compressor w/out VSD | Restaurant | Refrigeration | ROB | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 73% | 0.1 |
| FE-Penn Power | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Restaurant | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$269 | 35% | 0.7 |
| FE-Penn Power | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Restaurant | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$269 | 35% | 0.7 |
| FE-Penn Power | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Restaurant | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 2.4 |
| FE-Penn Power | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Restaurant | Refrigeration | New | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 2.3 |
| FE-Penn Power | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Restaurant | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 2.4 |
| FE-Penn Power | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Restaurant | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 2.3 |
| FE-Penn Power | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 35% | 1.9 |
| FE-Penn Power | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 35% | 1.8 |
| FE-Penn Power | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 3.9 |
| FE-Penn Power | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 3.7 |
| FE-Penn Power | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 3.9 |
| FE-Penn Power | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 3.7 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Restaurant | Space Heating | Existing | building | 234 | 7.1% | 0.07 | 6 | \$19,337 | 82% | 0.0 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Restaurant | Space Heating | New | building | 234 | 7.1% | 0.07 | 6 | \$19,337 | 82% | 0.0 |
| FE-Penn Power | Adding window shade film | No shade film | Restaurant | Space Heating | Existing | building | 234 | 1.3% | 0.4 | 10 | \$2.8 | 13% | 80.3 |
| FE-Penn Power | Adding window shade film | No shade film | Restaurant | Space Heating | New | building | 234 | 1.3% | 0.4 | 10 | \$2.8 | 13% | 80.3 |
| FE-Penn Power | Adding window shade screen | No shade screen | Restaurant | Space Heating | Existing | building | 234 | 1.1% | 0.01 | 10 | \$1.1 | 13% | 6.3 |
| FE-Penn Power | Adding window shade screen | No shade screen | Restaurant | Space Heating | New | building | 234 | 1.1% | 0.01 | 10 | \$1.1 | 13% | 6.3 |
| FE-Penn Power | Automated control system | Manual Controls | Restaurant | Space Heating | Existing | building | 234 | 17% | 0.2 | 15 | \$256 | 51% | 0.6 |
| FE-Penn Power | Automated control system | Manual Controls | Restaurant | Space Heating | New | building | 234 | 17% | 0.2 | 15 | \$256 | 94% | 0.6 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Restaurant | Space Heating | Existing | building | 234 | 8.9% | 0.09 | 15 | \$26,661 | 71% | 0.0 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Restaurant | Space Heating | New | building | 234 | 3.0% | 0.03 | 15 | \$25,342 | 94% | 0.0 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Restaurant | Space Heating | Existing | building | 234 | 1.4% | 0.04 | 15 | \$1.9 | 20% | 17.3 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Restaurant | Space Heating | New | building | 234 | 1.4% | 0.04 | 15 | \$1.9 | 10% | 17.3 |
| FE-Penn Power | Efficient Unit Heating System | Existing Unit Heaters in PA | Restaurant | Space Heating | Early | heater | 44,251 | 23% | 0.07 | 15 | \$3,289 | 83% | 1.2 |
| FE-Penn Power | Efficient Unit Heating System | Std. Unit Heater | Restaurant | Space Heating | New | heater | 39,273 | 13% | 0.04 | 15 | \$1,991 | 83% | 1.0 |
| FE-Penn Power | Efficient Unit Heating System | Std. Unit Heater | Restaurant | Space Heating | ROB | heater | 39,273 | 13% | 0.04 | 15 | \$1,991 | 83% | 1.0 |
| FE-Penn Power | Facility Commissioning | No Facility Commissioning | Restaurant | Space Heating | New | building | 234 | 16% | 0.2 | 10 | \$7,804 | 89% | 0.0 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Restaurant | Space Heating | Existing | building | 234 | 7.1% | 0.07 | 15 | \$1,039 | 25% | 0.1 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Restaurant | Space Heating | New | building | 234 | 7.1% | 0.07 | 15 | \$1,039 | 35% | 0.1 |
| FE-Penn Power | Hi Eff HVAC System Design | No HVAC Design | Restaurant | Space Heating | New | building | 234 | 12% | 0.1 | 10 | \$110,291 | 51% | 0.0 |
| FE-Penn Power | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Restaurant | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 0.8 |
| FE-Penn Power | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Restaurant | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 0.8 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Restaurant | Space Heating | Existing | building | 234 | 3.5% | 0.04 | 10 | \$7,735 | 81% | 0.0 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Restaurant | Space Heating | New | building | 234 | 3.5% | 0.04 | 10 | \$7,735 | 81% | 0.0 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Restaurant | Space Heating | Existing | building | 234 | 3.6% | 0.04 | 11 | \$286 | 49% | 0.1 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Restaurant | Space Heating | New | building | 234 | 3.1% | 0.03 | 11 | \$146 | 49% | 0.2 |
| FE-Penn Power | Re-Commissioning (Existing Construction) | No Re-Commissioning | Restaurant | Space Heating | Existing | building | 234 | 16% | 0.2 | 5 | \$12,732 | 86% | 0.0 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Restaurant | Space Heating | Existing | building | 234 | 12% | 0.1 | 15 | \$6,404 | 26% | 0.0 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Restaurant | Space Heating | New | building | 234 | 0.5% | 0.01 | 15 | \$4,912 | 94% | 0.0 |
| FE-Penn Power | Green LED Traffic Light | Green Incandescent Traffic Light | Restaurant | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 0% | 1.0 |
| FE-Penn Power | Green LED Traffic Light | Green Incandescent Traffic Light | Restaurant | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| FE-Penn Power | Green LED Traffic Light | Green Incandescent Traffic Light | Restaurant | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| FE-Penn Power | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Restaurant | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 0% | 2.6 |
| FE-Penn Power | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Restaurant | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-Penn Power | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Restaurant | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-Penn Power | Induction Street Lighting | One 100W HPS Street Light Fixture | Restaurant | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 0% | 0.2 |
| FE-Penn Power | Induction Street Lighting | One 100W HPS Street Light Fixture | Restaurant | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.4 |
| FE-Penn Power | Induction Street Lighting | One 100W HPS Street Light Fixture | Restaurant | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.4 |
| FE-Penn Power | LED Street Lighting | One 100W HPS Street Light | Restaurant | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 0% | 0.2 |
| FE-Penn Power | LED Street Lighting | One 100W HPS Street Light | Restaurant | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-Penn Power | LED Street Lighting | One 100W HPS Street Light | Restaurant | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-Penn Power | Red LED Traffic Light | One Red Incandescent Traffic Light | Restaurant | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 0% | 1.4 |
| FE-Penn Power | Red LED Traffic Light | One Red Incandescent Traffic Light | Restaurant | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.2 |
| FE-Penn Power | Red LED Traffic Light | One Red Incandescent Traffic Light | Restaurant | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.2 |
| FE-Penn Power | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Restaurant | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 0% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|--|---|------------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Restaurant | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-Penn Power | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Restaurant | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-Penn Power | Demand controlled Circulating Systems | Constant circulation system | Restaurant | Water Heating | Existing | building | 1,253 | 20% | 0.2 | 15 | \$227 | 59% | 1.2 |
| FE-Penn Power | Demand controlled Circulating Systems | Constant circulation system | Restaurant | Water Heating | New | building | 1,253 | 20% | 0.2 | 15 | \$227 | 59% | 1.2 |
| FE-Penn Power | Drainwater Heat Recovery Water Heater | No heat recovery | Restaurant | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.5 |
| FE-Penn Power | Drainwater Heat Recovery Water Heater | No heat recovery | Restaurant | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.5 |
| FE-Penn Power | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Restaurant | Water Heating | Existing | building | 1,253 | 5.9% | 0.06 | 12 | \$14 | 85% | 4.8 |
| FE-Penn Power | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Restaurant | Water Heating | New | building | 1,253 | 5.9% | 0.06 | 12 | \$4.0 | 85% | 16.9 |
| FE-Penn Power | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Restaurant | Water Heating | Early | water heater | 179,161 | 66% | 21.0 | 10 | \$7,124 | 68% | 7.1 |
| FE-Penn Power | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Restaurant | Water Heating | Early | water heater | 179,161 | 66% | 21.0 | 10 | \$7,124 | 68% | 7.1 |
| FE-Penn Power | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Restaurant | Water Heating | New | water heater | 179,161 | 66% | 21.0 | 10 | \$7,124 | 68% | 7.1 |
| FE-Penn Power | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Restaurant | Water Heating | New | water heater | 179,161 | 66% | 21.0 | 10 | \$7,124 | 68% | 7.1 |
| FE-Penn Power | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Restaurant | Water Heating | ROB | water heater | 174,184 | 65% | 20.1 | 10 | \$7,124 | 68% | 6.8 |
| FE-Penn Power | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Restaurant | Water Heating | ROB | water heater | 174,184 | 65% | 20.1 | 10 | \$7,124 | 68% | 6.8 |
| FE-Penn Power | Heat Recovery Unit | Base Water Heating | Restaurant | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.3 |
| FE-Penn Power | Heat Recovery Unit | Base Water Heating | Restaurant | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.3 |
| FE-Penn Power | Heat Trap | No Heat Trap | Restaurant | Water Heating | Existing | building | 1,253 | 1.0% | 0.01 | 11 | \$0.2 | 50% | 45.3 |
| FE-Penn Power | Heat Trap | No Heat Trap | Restaurant | Water Heating | New | building | 1,253 | 1.0% | 0.01 | 11 | \$0.1 | 50% | 118.3 |
| FE-Penn Power | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Restaurant | Water Heating | Early | water heater | 179,161 | 5.9% | 1.9 | 15 | \$1,842 | 79% | 3.3 |
| FE-Penn Power | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Restaurant | Water Heating | Early | water heater | 179,161 | 5.9% | 1.9 | 15 | \$1,842 | 79% | 3.3 |
| FE-Penn Power | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Restaurant | Water Heating | New | water heater | 174,184 | 3.2% | 1.0 | 15 | \$1,842 | 79% | 1.7 |
| FE-Penn Power | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Restaurant | Water Heating | New | water heater | 174,184 | 3.2% | 1.0 | 15 | \$1,842 | 79% | 1.7 |
| FE-Penn Power | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Restaurant | Water Heating | ROB | water heater | 174,184 | 3.2% | 1.0 | 15 | \$1,842 | 79% | 1.7 |
| FE-Penn Power | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Restaurant | Water Heating | ROB | water heater | 174,184 | 3.2% | 1.0 | 15 | \$1,842 | 79% | 1.7 |
| FE-Penn Power | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Restaurant | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$466 | 81% | 32.0 |
| FE-Penn Power | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Restaurant | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 16.7 |
| FE-Penn Power | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Restaurant | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 16.7 |
| FE-Penn Power | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Restaurant | Water Heating | Existing | building | 1,253 | 3.0% | 0.03 | 13 | \$5.5 | 68% | 6.6 |
| FE-Penn Power | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Restaurant | Water Heating | New | building | 1,253 | 3.0% | 0.03 | 13 | \$5.5 | 0% | 6.6 |
| FE-Penn Power | Hot Water Circulation Pump Time-Clock | Constant circulation system | Restaurant | Water Heating | Existing | building | 1,253 | 5.3% | 0.05 | 10 | \$5.1 | 72% | 10.7 |
| FE-Penn Power | Hot Water Circulation Pump Time-Clock | Constant circulation system | Restaurant | Water Heating | New | building | 1,253 | 5.3% | 0.05 | 10 | \$5.1 | 72% | 10.7 |
| FE-Penn Power | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Restaurant | Water Heating | Existing | building | 1,151 | 0.1% | 0.00 | 7 | \$22 | 78% | 0.0 |
| FE-Penn Power | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Restaurant | Water Heating | New | building | 1,151 | 6.6% | 0.07 | 7 | \$0.5 | 78% | 101.9 |
| FE-Penn Power | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Restaurant | Water Heating | Existing | building | 1,253 | 13% | 0.1 | 5 | \$300 | 80% | 0.3 |
| FE-Penn Power | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Restaurant | Water Heating | New | building | 1,253 | 13% | 0.1 | 5 | \$194 | 80% | 0.4 |
| FE-Penn Power | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Restaurant | Water Heating | Existing | building | 1,253 | 6.5% | 0.07 | 9 | \$25 | 2% | 2.5 |
| FE-Penn Power | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Restaurant | Water Heating | New | building | 1,253 | 6.5% | 0.07 | 9 | \$6.0 | 2% | 10.3 |
| FE-Penn Power | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Restaurant | Water Heating | Early | water heater | 179,161 | 52% | 7.6 | 15 | \$37,332 | 32% | 1.2 |
| FE-Penn Power | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Restaurant | Water Heating | New | water heater | 174,184 | 51% | 7.2 | 15 | \$37,332 | 32% | 1.2 |
| FE-Penn Power | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Restaurant | Water Heating | ROB | water heater | 174,184 | 51% | 7.2 | 15 | \$37,332 | 32% | 1.2 |
| FE-Penn Power | Ultrasonic Faucet Control | Manual Faucet Control | Restaurant | Water Heating | Existing | building | 1,253 | 3.0% | 0.03 | 10 | \$217 | 77% | 0.1 |
| FE-Penn Power | Ultrasonic Faucet Control | Manual Faucet Control | Restaurant | Water Heating | New | building | 1,253 | 3.0% | 0.03 | 10 | \$217 | 77% | 0.1 |
| FE-Penn Power | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Restaurant | Water Heating | Existing | building | 1,253 | 2.2% | 0.02 | 4 | \$28 | 83% | 0.4 |
| FE-Penn Power | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Restaurant | Water Heating | New | building | 1,253 | 2.3% | 0.02 | 4 | \$28 | 83% | 0.4 |
| FE-Penn Power | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Retail | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 0.9 |
| FE-Penn Power | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Retail | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 0.9 |
| FE-Penn Power | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Retail | Cooking | Early | steamer | 51 | 46% | 0.00 | 12 | \$5,053 | 81% | 0.0 |
| FE-Penn Power | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Retail | Cooking | New | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-Penn Power | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Retail | Cooking | ROB | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-Penn Power | Electric combination oven (Energy Star) | Standard Oven | Retail | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.5 |
| FE-Penn Power | Electric combination oven (Energy Star) | Standard Oven | Retail | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.5 |
| FE-Penn Power | Electric Convection Oven | Conventional convection oven w/ 65% efficiency | Retail | Cooking | Early | oven | 8,641 | 37% | 0.6 | 12 | \$4,119 | 81% | 0.4 |
| FE-Penn Power | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Retail | Cooking | New | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.6 |
| FE-Penn Power | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Retail | Cooking | ROB | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.6 |
| FE-Penn Power | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Retail | Cooking | Early | fryer | 6,105 | 23% | 0.3 | 12 | \$9,241 | 86% | 0.1 |
| FE-Penn Power | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Retail | Cooking | New | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| FE-Penn Power | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Retail | Cooking | ROB | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| FE-Penn Power | High Efficiency Griddle (ENERGY STAR) | Efficiency code minimum griddle (70% eff) | Retail | Cooking | Early | griddle | 11,317 | 65% | 1.4 | 12 | \$4,977 | 86% | 0.7 |
| FE-Penn Power | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Retail | Cooking | New | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.0 |
| FE-Penn Power | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Retail | Cooking | ROB | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.0 |
| FE-Penn Power | High Efficiency Induction Cooking | Standard Cooking | Retail | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-Penn Power | High Efficiency Induction Cooking | Standard Cooking | Retail | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Retail | Cooling Central | Existing | building | 3,677 | 7.0% | 0.07 | 6 | \$14,239 | 82% | 0.0 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Retail | Cooling Central | New | building | 3,677 | 7.0% | 0.07 | 6 | \$14,239 | 82% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|--|--|---------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Adding window shade film | No shade film | Retail | Cooling Central | Existing | building | 3,677 | 1.3% | 0.4 | 10 | \$45 | 13% | 5.4 |
| FE-Penn Power | Adding window shade film | No shade film | Retail | Cooling Central | New | building | 3,677 | 1.3% | 0.4 | 10 | \$45 | 13% | 5.4 |
| FE-Penn Power | Adding window shade screen | No shade screen | Retail | Cooling Central | Existing | building | 3,677 | 1.1% | 0.01 | 10 | \$17 | 13% | 1.1 |
| FE-Penn Power | Adding window shade screen | No shade screen | Retail | Cooling Central | New | building | 3,677 | 1.0% | 0.01 | 10 | \$17 | 13% | 1.1 |
| FE-Penn Power | Automated control system | Manual Controls | Retail | Cooling Central | Existing | building | 3,677 | 17% | 0.2 | 15 | \$4,025 | 51% | 0.1 |
| FE-Penn Power | Automated control system | Manual Controls | Retail | Cooling Central | New | building | 3,677 | 17% | 0.2 | 15 | \$4,025 | 94% | 0.1 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Retail | Cooling Central | Existing | building | 3,677 | 4.9% | 0.05 | 15 | \$19,662 | 71% | 0.0 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Retail | Cooling Central | New | building | 3,677 | 1.6% | 0.02 | 15 | \$18,689 | 94% | 0.0 |
| FE-Penn Power | Chiller Tuneup/Diagnostics | No tuneup | Retail | Cooling Central | Existing | building | 3,677 | 8.0% | 0.08 | 10 | \$9,389 | 59% | 0.0 |
| FE-Penn Power | Chiller Tuneup/Diagnostics | No tuneup | Retail | Cooling Central | New | building | 3,677 | 8.0% | 0.08 | 10 | \$9,389 | 59% | 0.0 |
| FE-Penn Power | Cooling Tower Optimization | No Cooling Tower Optimization | Retail | Cooling Central | Existing | building | 3,677 | 20% | 0.2 | 10 | \$23 | 69% | 15.7 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Retail | Cooling Central | Existing | building | 3,677 | 1.4% | 0.04 | 15 | \$29 | 20% | 1.8 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Retail | Cooling Central | New | building | 3,677 | 1.4% | 0.04 | 15 | \$29 | 10% | 1.8 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Retail | Cooling Central | Existing | building | 3,677 | 7.0% | 0.07 | 15 | \$16,310 | 25% | 0.0 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Retail | Cooling Central | New | building | 3,677 | 7.0% | 0.07 | 15 | \$16,310 | 35% | 0.0 |
| FE-Penn Power | Hi Eff HVAC System Design | No HVAC Design | Retail | Cooling Central | New | building | 3,677 | 11% | 0.1 | 10 | \$175,171 | 51% | 0.0 |
| FE-Penn Power | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Retail | Cooling Central | Early | ton | 6,841 | 24% | 0.6 | 15 | \$108,550 | 88% | 0.0 |
| FE-Penn Power | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Retail | Cooling Central | New | ton | 5,592 | 6.7% | 0.1 | 15 | \$12,927 | 88% | 0.0 |
| FE-Penn Power | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Retail | Cooling Central | ROB | ton | 5,592 | 6.7% | 0.1 | 15 | \$12,927 | 88% | 0.0 |
| FE-Penn Power | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Retail | Cooling Central | Early | ton | 10,222 | 23% | 0.9 | 15 | \$140,105 | 88% | 0.0 |
| FE-Penn Power | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Retail | Cooling Central | New | ton | 8,224 | 4.8% | 0.1 | 15 | \$9,336 | 88% | 0.0 |
| FE-Penn Power | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Retail | Cooling Central | ROB | ton | 8,224 | 4.8% | 0.1 | 15 | \$9,336 | 88% | 0.0 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Retail | Cooling Central | Early | ton | 83,676 | 26% | 7.9 | 15 | \$105,354 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Retail | Cooling Central | New | ton | 72,906 | 15% | 4.0 | 15 | \$30,530 | 88% | 0.3 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Retail | Cooling Central | ROB | ton | 72,906 | 15% | 4.0 | 15 | \$30,530 | 88% | 0.3 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Retail | Cooling Central | Early | ton | 125,324 | 23% | 10.5 | 15 | \$154,107 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Retail | Cooling Central | New | ton | 115,125 | 16% | 6.8 | 15 | \$27,646 | 88% | 0.5 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Retail | Cooling Central | ROB | ton | 125,324 | 23% | 10.5 | 15 | \$27,646 | 88% | 0.7 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Retail | Cooling Central | Early | ton | 208,139 | 23% | 17.2 | 15 | \$302,924 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Retail | Cooling Central | New | ton | 188,381 | 14% | 10.0 | 15 | \$115,432 | 88% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Retail | Cooling Central | ROB | ton | 208,139 | 23% | 17.2 | 15 | \$115,432 | 88% | 0.3 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Retail | Cooling Central | Early | ton | 249,767 | 23% | 20.7 | 15 | \$350,154 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Retail | Cooling Central | New | ton | 226,057 | 14% | 12.0 | 15 | \$120,406 | 88% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Retail | Cooling Central | ROB | ton | 249,767 | 23% | 20.7 | 15 | \$120,406 | 88% | 0.3 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Retail | Cooling Central | Early | ton | 55,363 | 29% | 5.9 | 15 | \$83,632 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Retail | Cooling Central | New | ton | 42,989 | 8.9% | 1.4 | 15 | \$40,211 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Retail | Cooling Central | ROB | ton | 55,363 | 29% | 5.9 | 15 | \$40,211 | 88% | 0.3 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Retail | Cooling Central | Early | ton | 95,127 | 35% | 12.1 | 15 | \$132,173 | 88% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Retail | Cooling Central | New | ton | 70,949 | 13% | 3.3 | 15 | \$39,556 | 88% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Retail | Cooling Central | ROB | ton | 70,949 | 13% | 3.3 | 15 | \$39,556 | 88% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Retail | Cooling Central | Early | ton | 158,823 | 39% | 22.8 | 15 | \$187,029 | 88% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Retail | Cooling Central | New | ton | 113,238 | 15% | 6.1 | 15 | \$33,554 | 88% | 0.4 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Retail | Cooling Central | ROB | ton | 158,823 | 39% | 22.8 | 15 | \$33,554 | 88% | 1.3 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Retail | Cooling Central | Early | ton | 27,792 | 30% | 3.0 | 15 | \$32,398 | 88% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Retail | Cooling Central | New | ton | 22,019 | 11% | 0.9 | 15 | \$7,188 | 88% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Retail | Cooling Central | ROB | ton | 27,792 | 30% | 3.0 | 15 | \$7,188 | 88% | 0.8 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Retail | Cooling Central | Existing | building | 3,677 | 2.3% | 0.02 | 10 | \$1,539 | 81% | 0.0 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Retail | Cooling Central | New | building | 3,677 | 2.3% | 0.02 | 10 | \$1,539 | 81% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|---|---------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Retail | Cooling Central | Existing | building | 3,677 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.1 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Retail | Cooling Central | New | building | 3,677 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.2 |
| FE-Penn Power | Re-Commissioning (Existing Construction) | No Re-Commissioning | Retail | Cooling Central | Existing | building | 3,677 | 16% | 0.2 | 5 | \$8,051 | 86% | 0.0 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Retail | Cooling Central | Existing | building | 3,677 | 8.1% | 0.08 | 15 | \$5,499 | 26% | 0.0 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Retail | Cooling Central | New | building | 3,677 | 0.3% | 0.00 | 15 | \$4,218 | 94% | 0.0 |
| FE-Penn Power | <65k BTU/hr 14 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Retail | Cooling Unitary | Early | ton | 2,494 | 16% | 0.3 | 15 | \$1,545 | 29% | 0.2 |
| FE-Penn Power | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Retail | Cooling Unitary | New | ton | 2,259 | 7.1% | 0.1 | 15 | \$339 | 29% | 0.5 |
| FE-Penn Power | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Retail | Cooling Unitary | ROB | ton | 2,259 | 7.1% | 0.1 | 15 | \$339 | 29% | 0.5 |
| FE-Penn Power | <65k BTU/hr 15 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Retail | Cooling Unitary | Early | ton | 2,494 | 22% | 0.4 | 15 | \$1,821 | 30% | 0.3 |
| FE-Penn Power | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Retail | Cooling Unitary | New | ton | 2,259 | 13% | 0.2 | 15 | \$714 | 30% | 0.4 |
| FE-Penn Power | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Retail | Cooling Unitary | ROB | ton | 2,259 | 13% | 0.2 | 15 | \$714 | 30% | 0.4 |
| FE-Penn Power | <65k BTU/hr 16 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Retail | Cooling Unitary | Early | ton | 2,494 | 26% | 0.5 | 15 | \$2,098 | 31% | 0.3 |
| FE-Penn Power | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Retail | Cooling Unitary | New | ton | 2,259 | 19% | 0.3 | 15 | \$1,089 | 31% | 0.4 |
| FE-Penn Power | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Retail | Cooling Unitary | ROB | ton | 2,259 | 19% | 0.3 | 15 | \$1,089 | 31% | 0.4 |
| FE-Penn Power | >760k min 10.2 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Retail | Cooling Unitary | Early | ton | 63,099 | 3.7% | 1.6 | 15 | \$68,066 | 56% | 0.0 |
| FE-Penn Power | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Retail | Cooling Unitary | New | ton | 63,908 | 4.9% | 2.2 | 15 | \$6,231 | 56% | 0.5 |
| FE-Penn Power | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Retail | Cooling Unitary | ROB | ton | 63,908 | 4.9% | 2.2 | 15 | \$6,231 | 56% | 0.5 |
| FE-Penn Power | 135-240k min 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Retail | Cooling Unitary | Early | ton | 15,526 | 18% | 1.9 | 15 | \$18,135 | 79% | 0.2 |
| FE-Penn Power | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Retail | Cooling Unitary | New | ton | 14,123 | 10.0% | 1.0 | 15 | \$1,948 | 79% | 0.7 |
| FE-Penn Power | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Retail | Cooling Unitary | ROB | ton | 14,123 | 10.0% | 1.0 | 15 | \$1,948 | 79% | 0.7 |
| FE-Penn Power | 240k-760k min 11 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Retail | Cooling Unitary | Early | ton | 41,512 | 9.0% | 2.6 | 15 | \$44,809 | 66% | 0.1 |
| FE-Penn Power | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Retail | Cooling Unitary | New | ton | 41,616 | 9.3% | 2.7 | 15 | \$4,813 | 66% | 0.8 |
| FE-Penn Power | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Retail | Cooling Unitary | ROB | ton | 41,616 | 9.3% | 2.7 | 15 | \$4,813 | 66% | 0.8 |
| FE-Penn Power | 65k-135k BTU/hr 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Retail | Cooling Unitary | Early | ton | 9,152 | 17% | 1.1 | 15 | \$10,946 | 86% | 0.1 |
| FE-Penn Power | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Retail | Cooling Unitary | New | ton | 8,157 | 6.7% | 0.4 | 15 | \$1,392 | 86% | 0.4 |
| FE-Penn Power | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Retail | Cooling Unitary | ROB | ton | 8,157 | 6.7% | 0.4 | 15 | \$1,392 | 86% | 0.4 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Retail | Cooling Unitary | Existing | building | 34,114 | 7.0% | 0.07 | 6 | \$14,239 | 82% | 0.0 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Retail | Cooling Unitary | New | building | 34,114 | 7.1% | 0.07 | 6 | \$14,239 | 82% | 0.0 |
| FE-Penn Power | Adding window shade film | No shade film | Retail | Cooling Unitary | Existing | building | 34,114 | 1.3% | 0.4 | 10 | \$415 | 12% | 0.9 |
| FE-Penn Power | Adding window shade film | No shade film | Retail | Cooling Unitary | New | building | 34,114 | 1.3% | 0.4 | 10 | \$415 | 13% | 0.9 |
| FE-Penn Power | Adding window shade screen | No shade screen | Retail | Cooling Unitary | Existing | building | 34,114 | 1.1% | 0.01 | 10 | \$161 | 12% | 0.8 |
| FE-Penn Power | Adding window shade screen | No shade screen | Retail | Cooling Unitary | New | building | 34,114 | 1.1% | 0.01 | 10 | \$161 | 13% | 0.8 |
| FE-Penn Power | Automated control system | Manual Controls | Retail | Cooling Unitary | Existing | building | 34,114 | 17% | 0.2 | 15 | \$37,347 | 51% | 0.1 |
| FE-Penn Power | Automated control system | Manual Controls | Retail | Cooling Unitary | New | building | 34,114 | 17% | 0.2 | 15 | \$37,347 | 94% | 0.1 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Retail | Cooling Unitary | Existing | building | 34,114 | 4.9% | 0.05 | 15 | \$19,662 | 71% | 0.0 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Retail | Cooling Unitary | New | building | 34,114 | 1.6% | 0.02 | 15 | \$18,689 | 94% | 0.0 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Retail | Cooling Unitary | Existing | building | 34,114 | 1.4% | 0.04 | 15 | \$271 | 20% | 0.9 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Retail | Cooling Unitary | New | building | 34,114 | 1.4% | 0.04 | 15 | \$271 | 10% | 0.9 |
| FE-Penn Power | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Retail | Cooling Unitary | Existing | building | 18,643 | 13% | 0.1 | 1 | \$179 | 73% | 0.7 |
| FE-Penn Power | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Retail | Cooling Unitary | New | building | 18,643 | 13% | 0.1 | 1 | \$179 | 73% | 0.7 |
| FE-Penn Power | ECM Motors for split systems | Std Shaded Pole Motor | Retail | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.4 |
| FE-Penn Power | ECM Motors for split systems | Std Shaded Pole Motor | Retail | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.4 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Retail | Cooling Unitary | Existing | building | 34,114 | 7.1% | 0.07 | 15 | \$151,323 | 25% | 0.0 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Retail | Cooling Unitary | New | building | 34,114 | 7.0% | 0.07 | 15 | \$151,323 | 35% | 0.0 |
| FE-Penn Power | Hi Eff HVAC System Design | No HVAC Design | Retail | Cooling Unitary | New | building | 34,114 | 11% | 0.1 | 10 | \$15,265 | 51% | 0.1 |
| FE-Penn Power | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Retail | Cooling Unitary | Existing | building | 34,114 | 5.0% | 0.05 | 5 | \$225 | 59% | 1.6 |
| FE-Penn Power | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Retail | Cooling Unitary | Existing | building | 34,114 | 0.8% | 0.1 | 5 | \$225 | 51% | 0.4 |
| FE-Penn Power | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Retail | Cooling Unitary | New | building | 34,114 | 0.7% | 0.09 | 5 | \$135 | 51% | 0.6 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Retail | Cooling Unitary | Existing | building | 34,114 | 2.3% | 0.02 | 10 | \$1,654 | 86% | 0.2 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Retail | Cooling Unitary | New | building | 34,114 | 2.3% | 0.02 | 10 | \$1,654 | 86% | 0.2 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) | Retail | Cooling Unitary | Existing | building | 34,114 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.9 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Retail | Cooling Unitary | New | building | 34,114 | 1.7% | 0.02 | 11 | \$146 | 49% | 1.5 |
| FE-Penn Power | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Retail | Cooling Unitary | Early | unit | 3,223 | 19% | 0.2 | 15 | \$849 | 85% | 0.5 |
| FE-Penn Power | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Retail | Cooling Unitary | New | unit | 3,256 | 20% | 0.2 | 15 | \$356 | 85% | 1.3 |
| FE-Penn Power | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Retail | Cooling Unitary | ROB | unit | 3,256 | 20% | 0.2 | 15 | \$356 | 85% | 1.3 |
| FE-Penn Power | Re-Commissioning (Existing Construction) | No Re-Commissioning | Retail | Cooling Unitary | Existing | building | 34,114 | 16% | 0.2 | 5 | \$8,051 | 86% | 0.1 |
| FE-Penn Power | Room AC (w/ louvered sides) | Exisiting efficiency Room AC in Pennsylvania (2000 Federal Standards) | Retail | Cooling Unitary | Early | ton | 1,177 | 13% | 0.06 | 9 | \$348 | 82% | 0.2 |
| FE-Penn Power | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Retail | Cooling Unitary | New | ton | 1,067 | 4.5% | 0.02 | 9 | \$17 | 82% | 1.4 |
| FE-Penn Power | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Retail | Cooling Unitary | ROB | ton | 1,067 | 4.5% | 0.02 | 9 | \$17 | 82% | 1.4 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|--|---|---------|-----------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Retail | Cooling Unitary | Existing | building | 34,114 | 8.1% | 0.08 | 15 | \$5,499 | 26% | 0.2 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Retail | Cooling Unitary | New | building | 34,114 | 0.3% | 0.00 | 15 | \$4,218 | 94% | 0.0 |
| FE-Penn Power | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Retail | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 0.9 |
| FE-Penn Power | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Retail | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.0 |
| FE-Penn Power | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Retail | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.1 |
| FE-Penn Power | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Retail | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 0% | 0.1 |
| FE-Penn Power | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Retail | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-Penn Power | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Retail | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-Penn Power | LED exterior lighting | 250 Watt Incandescent | Retail | Ext. Lighting | ROB | measure | 475 | 83% | 0.1 | 15 | \$104 | 89% | 2.4 |
| FE-Penn Power | LED exterior lighting | 250 Watt Incandescent | Retail | Ext. Lighting | ROB | measure | 431 | 83% | 0.1 | 15 | \$104 | 89% | 2.3 |
| FE-Penn Power | LED exterior lighting | 250 Watt Incandescent | Retail | Ext. Lighting | ROB | measure | 431 | 83% | 0.1 | 15 | \$104 | 89% | 2.3 |
| FE-Penn Power | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Retail | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 75% | 0.2 |
| FE-Penn Power | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Retail | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 75% | 0.2 |
| FE-Penn Power | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Retail | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.3 |
| FE-Penn Power | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Retail | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 1.7 |
| FE-Penn Power | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Retail | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.3 |
| FE-Penn Power | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Retail | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 1.7 |
| FE-Penn Power | Photocell Controls (Outdoor) | Lighting w/ No Controls | Retail | Ext. Lighting | Existing | building | 581 | 28% | 0.3 | 8 | \$1,459 | 88% | 0.1 |
| FE-Penn Power | Photocell Controls (Outdoor) | Lighting w/ No Controls | Retail | Ext. Lighting | New | building | 581 | 28% | 0.3 | 8 | \$1,459 | 0% | 0.1 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Retail | Heat Pump | Existing | building | 3,470 | 6.9% | 0.07 | 6 | \$14,239 | 82% | 0.0 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Retail | Heat Pump | New | building | 3,470 | 6.9% | 0.07 | 6 | \$14,239 | 82% | 0.0 |
| FE-Penn Power | Adding window shade film | No shade film | Retail | Heat Pump | Existing | building | 3,470 | 3.9% | 0.4 | 10 | \$42 | 12% | 6.3 |
| FE-Penn Power | Adding window shade film | No shade film | Retail | Heat Pump | New | building | 3,470 | 3.9% | 0.4 | 10 | \$42 | 12% | 6.3 |
| FE-Penn Power | Adding window shade screen | No shade screen | Retail | Heat Pump | Existing | building | 3,470 | 0.3% | 0.01 | 10 | \$5.4 | 12% | 1.8 |
| FE-Penn Power | Adding window shade screen | No shade screen | Retail | Heat Pump | New | building | 3,470 | 0.3% | 0.01 | 10 | \$5.4 | 12% | 1.8 |
| FE-Penn Power | Automated control system | Manual Controls | Retail | Heat Pump | Existing | building | 3,470 | 17% | 0.2 | 15 | \$3,799 | 51% | 0.1 |
| FE-Penn Power | Automated control system | Manual Controls | Retail | Heat Pump | New | building | 3,470 | 17% | 0.2 | 15 | \$3,799 | 94% | 0.1 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Retail | Heat Pump | Existing | building | 3,470 | 4.9% | 0.05 | 15 | \$19,662 | 71% | 0.0 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Retail | Heat Pump | New | building | 3,470 | 1.6% | 0.02 | 15 | \$18,689 | 94% | 0.0 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Retail | Heat Pump | Existing | building | 3,470 | 4.0% | 0.04 | 15 | \$28 | 12% | 3.1 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Retail | Heat Pump | New | building | 3,470 | 4.0% | 0.04 | 15 | \$28 | 6% | 3.1 |
| FE-Penn Power | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Retail | Heat Pump | Early | heat pump | 1,666 | 13% | 0.02 | 15 | \$4,070 | 83% | 0.0 |
| FE-Penn Power | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Retail | Heat Pump | New | heat pump | 1,573 | 7.7% | 0.01 | 15 | \$1,097 | 83% | 0.1 |
| FE-Penn Power | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Retail | Heat Pump | ROB | heat pump | 1,573 | 7.7% | 0.01 | 15 | \$1,097 | 83% | 0.1 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Retail | Heat Pump | Existing | building | 3,470 | 7.0% | 0.07 | 15 | \$15,392 | 25% | 0.0 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Retail | Heat Pump | New | building | 3,470 | 7.0% | 0.07 | 15 | \$15,392 | 35% | 0.0 |
| FE-Penn Power | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Retail | Heat Pump | Early | heat pump | 18,603 | 19% | 0.3 | 15 | \$91,117 | 19% | 0.0 |
| FE-Penn Power | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Retail | Heat Pump | New | heat pump | 17,753 | 15% | 0.2 | 15 | \$33,927 | 19% | 0.0 |
| FE-Penn Power | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Retail | Heat Pump | ROB | heat pump | 17,753 | 15% | 0.2 | 15 | \$33,927 | 19% | 0.0 |
| FE-Penn Power | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Retail | Heat Pump | Early | heat pump | 18,603 | 19% | 0.3 | 15 | \$58,356 | 19% | 0.0 |
| FE-Penn Power | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Retail | Heat Pump | New | heat pump | 17,753 | 15% | 0.2 | 15 | \$1,167 | 19% | 1.1 |
| FE-Penn Power | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Retail | Heat Pump | ROB | heat pump | 17,753 | 15% | 0.2 | 15 | \$1,167 | 19% | 1.1 |
| FE-Penn Power | Hi Eff HVAC System Design | No HVAC Design | Retail | Heat Pump | New | building | 3,470 | 11% | 0.1 | 10 | \$175,171 | 51% | 0.0 |
| FE-Penn Power | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Retail | Heat Pump | Early | heat pump | 4,717 | 18% | 0.07 | 12 | \$4,298 | 81% | 0.1 |
| FE-Penn Power | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Retail | Heat Pump | Early | heat pump | 4,717 | 24% | 0.10 | 12 | \$5,883 | 81% | 0.1 |
| FE-Penn Power | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Retail | Heat Pump | New | heat pump | 4,444 | 13% | 0.05 | 12 | \$852 | 81% | 0.3 |
| FE-Penn Power | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Retail | Heat Pump | New | heat pump | 4,444 | 20% | 0.08 | 12 | \$2,437 | 81% | 0.1 |
| FE-Penn Power | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Retail | Heat Pump | ROB | heat pump | 4,444 | 13% | 0.05 | 12 | \$852 | 81% | 0.3 |
| FE-Penn Power | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Retail | Heat Pump | ROB | heat pump | 4,444 | 20% | 0.08 | 12 | \$2,437 | 81% | 0.1 |
| FE-Penn Power | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Retail | Heat Pump | Existing | building | 3,470 | 5.0% | 0.02 | 5 | \$90 | 51% | 0.4 |
| FE-Penn Power | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Retail | Heat Pump | New | building | 3,470 | 5.0% | 0.02 | 5 | \$90 | 51% | 0.4 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Retail | Heat Pump | Existing | building | 3,470 | 2.3% | 0.02 | 10 | \$1,473 | 81% | 0.0 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Retail | Heat Pump | New | building | 3,470 | 2.3% | 0.02 | 10 | \$1,473 | 81% | 0.0 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Retail | Heat Pump | Existing | building | 3,470 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.1 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Retail | Heat Pump | New | building | 3,470 | 2.1% | 0.02 | 11 | \$146 | 49% | 0.3 |
| FE-Penn Power | Re-Commissioning (Existing Construction) | No Re-Commissioning | Retail | Heat Pump | Existing | building | 3,470 | 16% | 0.2 | 5 | \$8,051 | 86% | 0.0 |
| FE-Penn Power | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Retail | Heat Pump | New | measure | 679,680 | 2.0% | 1.6 | 13 | \$85,564 | 43% | 0.1 |
| FE-Penn Power | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Retail | Heat Pump | ROB | measure | 679,680 | 2.0% | 1.6 | 13 | \$85,564 | 43% | 0.1 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Retail | Heat Pump | Existing | building | 3,470 | 8.1% | 0.08 | 15 | \$5,499 | 26% | 0.0 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Retail | Heat Pump | New | building | 3,470 | 0.3% | 0.00 | 15 | \$4,218 | 94% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|---|---------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Retail | Heat Pump | Early | heat pump | 7,378 | 31% | 0.2 | 15 | \$35,347 | 28% | 0.0 |
| FE-Penn Power | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Retail | Heat Pump | New | heat pump | 6,895 | 26% | 0.2 | 15 | \$15,739 | 28% | 0.1 |
| FE-Penn Power | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Retail | Heat Pump | ROB | heat pump | 6,895 | 26% | 0.2 | 15 | \$15,739 | 28% | 0.1 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Retail | High Bay Lighting | Early | Fixture | 614 | 9.6% | 0.02 | 13 | \$850 | 39% | 0.0 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Retail | High Bay Lighting | Early | Fixture | 613 | 9.5% | 0.02 | 13 | \$850 | 28% | 0.0 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Retail | High Bay Lighting | Early | Fixture | 947 | 41% | 0.1 | 13 | \$850 | 36% | 0.3 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Retail | High Bay Lighting | New | Fixture | 466 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Retail | High Bay Lighting | New | Fixture | 434 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Retail | High Bay Lighting | New | Fixture | 720 | 41% | 0.08 | 13 | \$397 | 36% | 0.4 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Retail | High Bay Lighting | ROB | Fixture | 614 | 9.6% | 0.02 | 13 | \$372 | 39% | 0.1 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Retail | High Bay Lighting | ROB | Fixture | 571 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Retail | High Bay Lighting | ROB | Fixture | 947 | 41% | 0.1 | 13 | \$397 | 36% | 0.6 |
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Retail | High Bay Lighting | Early | Fixture | 1,192 | 19% | 0.06 | 13 | \$851 | 38% | 0.2 |
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Retail | High Bay Lighting | Early | Fixture | 1,207 | 20% | 0.07 | 13 | \$851 | 38% | 0.2 |
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | Early | Fixture | 3,510 | 73% | 0.7 | 13 | \$851 | 38% | 1.7 |
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Retail | High Bay Lighting | New | Fixture | 906 | 19% | 0.05 | 13 | \$372 | 38% | 0.3 |
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | New | Fixture | 2,667 | 73% | 0.5 | 13 | \$383 | 38% | 2.9 |
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Retail | High Bay Lighting | ROB | Fixture | 1,192 | 19% | 0.06 | 13 | \$372 | 38% | 0.4 |
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | ROB | Fixture | 3,510 | 73% | 0.7 | 13 | \$383 | 38% | 3.9 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Retail | High Bay Lighting | Early | Fixture | 1,192 | 25% | 0.08 | 13 | \$554 | 29% | 0.3 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Retail | High Bay Lighting | Early | Fixture | 1,170 | 23% | 0.07 | 13 | \$554 | 28% | 0.3 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | Early | Fixture | 3,510 | 74% | 0.7 | 13 | \$554 | 36% | 2.7 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Retail | High Bay Lighting | New | Fixture | 906 | 25% | 0.06 | 13 | \$75 | 29% | 1.7 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | New | Fixture | 2,667 | 74% | 0.5 | 13 | \$86 | 36% | 13.4 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Retail | High Bay Lighting | ROB | Fixture | 1,192 | 25% | 0.08 | 13 | \$75 | 29% | 2.3 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | ROB | Fixture | 3,510 | 74% | 0.7 | 13 | \$86 | 36% | 17.7 |
| FE-Penn Power | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Retail | High Bay Lighting | Early | Fixture | 311 | 0.2% | 0.00 | 13 | \$835 | 38% | 0.0 |
| FE-Penn Power | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Retail | High Bay Lighting | Early | Fixture | 669 | 54% | 0.10 | 13 | \$835 | 38% | 0.2 |
| FE-Penn Power | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Retail | High Bay Lighting | New | Fixture | 509 | 54% | 0.07 | 13 | \$382 | 38% | 0.4 |
| FE-Penn Power | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Retail | High Bay Lighting | ROB | Fixture | 669 | 54% | 0.10 | 13 | \$382 | 38% | 0.5 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Retail | High Bay Lighting | Early | Fixture | 1,518 | 18% | 0.08 | 13 | \$487 | 25% | 0.3 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Retail | High Bay Lighting | Early | Fixture | 1,587 | 22% | 0.09 | 13 | \$487 | 28% | 0.4 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | Early | Fixture | 3,510 | 65% | 0.6 | 13 | \$487 | 36% | 2.7 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Retail | High Bay Lighting | New | Fixture | 1,154 | 18% | 0.06 | 13 | \$16 | 25% | 7.5 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | New | Fixture | 2,667 | 65% | 0.5 | 13 | \$18 | 36% | 54.4 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Retail | High Bay Lighting | ROB | Fixture | 1,518 | 18% | 0.08 | 13 | \$16 | 25% | 9.9 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | ROB | Fixture | 3,510 | 65% | 0.6 | 13 | \$18 | 36% | 71.6 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Retail | High Bay Lighting | Early | Fixture | 1,518 | 1.5% | 0.01 | 13 | \$557 | 19% | 0.0 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Retail | High Bay Lighting | Early | Fixture | 1,563 | 4.3% | 0.02 | 13 | \$557 | 19% | 0.1 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | Early | Fixture | 3,510 | 57% | 0.5 | 13 | \$557 | 19% | 2.1 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Retail | High Bay Lighting | New | Fixture | 1,154 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | New | Fixture | 2,667 | 57% | 0.4 | 13 | \$88 | 19% | 10.1 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Retail | High Bay Lighting | ROB | Fixture | 1,518 | 1.5% | 0.01 | 13 | \$86 | 19% | 0.2 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | ROB | Fixture | 3,510 | 57% | 0.5 | 13 | \$88 | 19% | 13.3 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Retail | High Bay Lighting | Early | Fixture | 645 | 29% | 0.04 | 13 | \$492 | 71% | 0.2 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Retail | High Bay Lighting | Early | Fixture | 539 | 15% | 0.02 | 13 | \$492 | 95% | 0.1 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Retail | High Bay Lighting | Early | Fixture | 801 | 43% | 0.07 | 13 | \$492 | 95% | 0.4 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Retail | High Bay Lighting | Early | Fixture | 742 | 38% | 0.05 | 13 | \$492 | 95% | 0.3 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Retail | High Bay Lighting | New | Fixture | 410 | 15% | 0.01 | 13 | \$25 | 95% | 1.3 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Retail | High Bay Lighting | New | Fixture | 609 | 43% | 0.05 | 13 | \$51 | 95% | 2.6 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Retail | High Bay Lighting | ROB | Fixture | 539 | 15% | 0.02 | 13 | \$25 | 95% | 1.7 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Retail | High Bay Lighting | ROB | Fixture | 801 | 43% | 0.07 | 13 | \$51 | 95% | 3.5 |
| FE-Penn Power | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Retail | High Bay Lighting | Early | lamp | 94 | 16% | 0.00 | 11 | \$7.7 | 99% | 1.0 |
| FE-Penn Power | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Retail | High Bay Lighting | New | lamp | 56 | 13% | 0.00 | 11 | \$1.6 | 91% | 2.2 |
| FE-Penn Power | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Retail | High Bay Lighting | ROB | lamp | 91 | 13% | 0.00 | 11 | \$1.6 | 91% | 3.6 |
| FE-Penn Power | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Retail | High Bay Lighting | Early | Fixture | 3,591 | 23% | 0.2 | 13 | \$613 | 5% | 0.8 |
| FE-Penn Power | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Retail | High Bay Lighting | Early | Fixture | 2,821 | 1.6% | 0.01 | 13 | \$613 | 28% | 0.0 |
| FE-Penn Power | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | Early | Fixture | 7,019 | 60% | 1.1 | 13 | \$613 | 18% | 4.0 |
| FE-Penn Power | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Retail | High Bay Lighting | New | Fixture | 2,729 | 23% | 0.2 | 13 | \$96 | 5% | 3.7 |
| FE-Penn Power | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Retail | High Bay Lighting | ROB | Fixture | 3,591 | 23% | 0.2 | 13 | \$96 | 5% | 4.9 |
| FE-Penn Power | Auto Off Time Switch | Lighting w/ No Controls | Retail | High Bay Lighting | Existing | building | 6,929 | 24% | 0.2 | 8 | \$296 | 13% | 2.0 |
| FE-Penn Power | Auto Off Time Switch | Lighting w/ No Controls | Retail | High Bay Lighting | New | building | 6,929 | 6.9% | 0.07 | 8 | \$296 | 0% | 0.6 |
| FE-Penn Power | Central Lighting Control System | Lighting w/ No Controls | Retail | High Bay Lighting | Existing | building | 6,929 | 38% | 0.4 | 8 | \$296 | 13% | 3.1 |
| FE-Penn Power | Central Lighting Control System | Lighting w/ No Controls | Retail | High Bay Lighting | New | building | 6,929 | 14% | 0.1 | 8 | \$296 | 13% | 1.2 |
| FE-Penn Power | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Retail | High Bay Lighting | New | building | 6,929 | 10% | 0.1 | 15 | \$29,254 | 32% | 0.0 |
| FE-Penn Power | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Retail | High Bay Lighting | New | building | 6,929 | 15% | 0.2 | 15 | \$73,134 | 32% | 0.0 |
| FE-Penn Power | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Retail | High Bay Lighting | New | building | 6,929 | 30% | 0.3 | 15 | \$104,825 | 32% | 0.0 |
| FE-Penn Power | Indoor Daylight Sensors | Lighting w/ No Controls | Retail | High Bay Lighting | Existing | building | 6,929 | 28% | 0.3 | 8 | \$1,459 | 13% | 0.5 |
| FE-Penn Power | Indoor Daylight Sensors | Lighting w/ No Controls | Retail | High Bay Lighting | New | building | 6,929 | 4.0% | 0.04 | 8 | \$1,459 | 0% | 0.1 |
| FE-Penn Power | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Retail | High Bay Lighting | Early | Fixture | 3,591 | 92% | 0.9 | 13 | \$1,916 | 95% | 1.0 |
| FE-Penn Power | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | Early | Fixture | 7,019 | 96% | 1.8 | 13 | \$1,916 | 95% | 2.0 |
| FE-Penn Power | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Retail | High Bay Lighting | New | Fixture | 2,729 | 92% | 0.7 | 13 | \$1,468 | 95% | 1.0 |
| FE-Penn Power | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | New | Fixture | 5,335 | 96% | 1.4 | 13 | \$1,149 | 95% | 2.6 |
| FE-Penn Power | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Retail | High Bay Lighting | ROB | Fixture | 3,591 | 92% | 0.9 | 13 | \$1,468 | 95% | 1.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|--|---------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | ROB | Fixture | 7,019 | 96% | 1.8 | 13 | \$1,149 | 95% | 3.4 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Retail | High Bay Lighting | Early | Fixture | 1,192 | 67% | 0.2 | 13 | \$960 | 95% | 0.5 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Retail | High Bay Lighting | Early | Fixture | 3,510 | 89% | 0.8 | 13 | \$960 | 95% | 1.9 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Retail | High Bay Lighting | Early | Fixture | 963 | 59% | 0.2 | 13 | \$960 | 95% | 0.3 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Retail | High Bay Lighting | New | Fixture | 906 | 67% | 0.2 | 13 | \$480 | 95% | 0.7 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Retail | High Bay Lighting | New | Fixture | 2,667 | 89% | 0.6 | 13 | \$491 | 95% | 2.8 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Retail | High Bay Lighting | New | Fixture | 732 | 59% | 0.1 | 13 | \$406 | 95% | 0.6 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Retail | High Bay Lighting | ROB | Fixture | 1,192 | 67% | 0.2 | 13 | \$480 | 95% | 1.0 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Retail | High Bay Lighting | ROB | Fixture | 3,510 | 89% | 0.8 | 13 | \$491 | 95% | 3.7 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Retail | High Bay Lighting | ROB | Fixture | 963 | 59% | 0.2 | 13 | \$406 | 95% | 0.8 |
| FE-Penn Power | Occupancy Sensor | Lighting w/ No Controls | Retail | High Bay Lighting | Existing | building | 6,929 | 24% | 0.2 | 8 | \$447 | 12% | 1.3 |
| FE-Penn Power | Occupancy Sensor | Lighting w/ No Controls | Retail | High Bay Lighting | New | building | 6,929 | 6.9% | 0.07 | 8 | \$447 | 0% | 0.4 |
| FE-Penn Power | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Retail | High Bay Lighting | Existing | building | 6,929 | 28% | 0.3 | 8 | \$1,459 | 12% | 0.5 |
| FE-Penn Power | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Retail | High Bay Lighting | New | building | 6,929 | 4.0% | 0.04 | 8 | \$1,459 | 0% | 0.1 |
| FE-Penn Power | Time Clock Control | Lighting w/ No Controls | Retail | High Bay Lighting | Existing | building | 6,929 | 28% | 0.3 | 8 | \$296 | 13% | 2.3 |
| FE-Penn Power | Time Clock Control | Lighting w/ No Controls | Retail | High Bay Lighting | New | building | 6,929 | 4.0% | 0.04 | 8 | \$296 | 0% | 0.3 |
| FE-Penn Power | Auto Off Time Switch | Lighting w/ No Controls | Retail | Lin. Fluor. Lighting | Existing | building | 12,889 | 24% | 0.2 | 8 | \$296 | 13% | 3.3 |
| FE-Penn Power | Auto Off Time Switch | Lighting w/ No Controls | Retail | Lin. Fluor. Lighting | New | building | 12,889 | 7.0% | 0.07 | 8 | \$296 | 0% | 1.0 |
| FE-Penn Power | Central Lighting Control System | Lighting w/ No Controls | Retail | Lin. Fluor. Lighting | Existing | building | 12,889 | 38% | 0.4 | 8 | \$296 | 12% | 5.2 |
| FE-Penn Power | Central Lighting Control System | Lighting w/ No Controls | Retail | Lin. Fluor. Lighting | New | building | 12,889 | 14% | 0.1 | 8 | \$296 | 12% | 1.9 |
| FE-Penn Power | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Retail | Lin. Fluor. Lighting | New | building | 12,889 | 10% | 0.1 | 15 | \$29,254 | 32% | 0.0 |
| FE-Penn Power | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Retail | Lin. Fluor. Lighting | New | building | 12,889 | 15% | 0.2 | 15 | \$73,134 | 32% | 0.0 |
| FE-Penn Power | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Retail | Lin. Fluor. Lighting | New | building | 12,889 | 30% | 0.3 | 15 | \$104,825 | 32% | 0.0 |
| FE-Penn Power | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Retail | Lin. Fluor. Lighting | Early | Lamp | 190 | 38% | 0.02 | 11 | \$7.3 | 94% | 4.7 |
| FE-Penn Power | Indoor Daylight Sensors | Lighting w/ No Controls | Retail | Lin. Fluor. Lighting | Existing | building | 12,889 | 28% | 0.3 | 8 | \$1,459 | 13% | 0.8 |
| FE-Penn Power | Indoor Daylight Sensors | Lighting w/ No Controls | Retail | Lin. Fluor. Lighting | New | building | 12,889 | 4.1% | 0.04 | 8 | \$1,459 | 0% | 0.1 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Retail | Lin. Fluor. Lighting | Early | Lamp | 72 | 19% | 0.00 | 15 | \$35 | 94% | 0.3 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 40W T12 Lamp, Magnetic Ballast | Retail | Lin. Fluor. Lighting | Early | Lamp | 158 | 63% | 0.03 | 15 | \$35 | 94% | 1.8 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Retail | Lin. Fluor. Lighting | Early | Lamp | 89 | 34% | 0.01 | 15 | \$35 | 94% | 0.6 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Retail | Lin. Fluor. Lighting | Early | Lamp | 86 | 32% | 0.01 | 15 | \$35 | 94% | 0.5 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Retail | Lin. Fluor. Lighting | New | Lamp | 55 | 19% | 0.00 | 15 | \$28 | 94% | 0.2 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Retail | Lin. Fluor. Lighting | New | Lamp | 65 | 32% | 0.01 | 15 | \$29 | 94% | 0.5 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Retail | Lin. Fluor. Lighting | New | Lamp | 67 | 34% | 0.01 | 15 | \$22 | 94% | 0.7 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Retail | Lin. Fluor. Lighting | New | Lamp | 65 | 32% | 0.01 | 15 | \$29 | 94% | 0.5 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Retail | Lin. Fluor. Lighting | ROB | Lamp | 72 | 19% | 0.00 | 15 | \$28 | 94% | 0.3 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Retail | Lin. Fluor. Lighting | ROB | Lamp | 86 | 32% | 0.01 | 15 | \$29 | 94% | 0.6 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Retail | Lin. Fluor. Lighting | ROB | Lamp | 89 | 34% | 0.01 | 15 | \$22 | 94% | 0.9 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Retail | Lin. Fluor. Lighting | ROB | Lamp | 86 | 32% | 0.01 | 15 | \$29 | 94% | 0.6 |
| FE-Penn Power | Occupancy Sensor | Lighting w/ No Controls | Retail | Lin. Fluor. Lighting | Existing | building | 12,889 | 24% | 0.2 | 8 | \$447 | 13% | 2.2 |
| FE-Penn Power | Occupancy Sensor | Lighting w/ No Controls | Retail | Lin. Fluor. Lighting | New | building | 12,889 | 6.9% | 0.07 | 8 | \$447 | 0% | 0.6 |
| FE-Penn Power | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Retail | Lin. Fluor. Lighting | Existing | building | 12,889 | 28% | 0.3 | 8 | \$1,459 | 12% | 0.8 |
| FE-Penn Power | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Retail | Lin. Fluor. Lighting | New | building | 12,889 | 4.1% | 0.04 | 8 | \$1,459 | 0% | 0.1 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 40W T12 w/ Magnetic Ballast | Retail | Lin. Fluor. Lighting | Early | Lamp | 190 | 54% | 0.02 | 11 | \$9.1 | 94% | 5.4 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Retail | Lin. Fluor. Lighting | Early | Lamp | 121 | 28% | 0.01 | 11 | \$9.1 | 24% | 1.8 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Retail | Lin. Fluor. Lighting | Early | Lamp | 118 | 26% | 0.01 | 11 | \$9.1 | 94% | 1.6 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Retail | Lin. Fluor. Lighting | New | Lamp | 89 | 26% | 0.00 | 11 | \$2.5 | 94% | 4.4 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Retail | Lin. Fluor. Lighting | New | Lamp | 89 | 26% | 0.00 | 11 | \$2.5 | 94% | 4.4 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Retail | Lin. Fluor. Lighting | New | Lamp | 92 | 28% | 0.01 | 11 | \$2.5 | 24% | 5.0 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Retail | Lin. Fluor. Lighting | New | Lamp | 89 | 26% | 0.00 | 11 | \$2.5 | 94% | 4.4 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Retail | Lin. Fluor. Lighting | ROB | Lamp | 118 | 26% | 0.01 | 11 | \$2.5 | 94% | 5.8 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Retail | Lin. Fluor. Lighting | ROB | Lamp | 118 | 26% | 0.01 | 11 | \$2.5 | 94% | 5.8 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Retail | Lin. Fluor. Lighting | ROB | Lamp | 121 | 28% | 0.01 | 11 | \$2.5 | 24% | 6.5 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Retail | Lin. Fluor. Lighting | ROB | Lamp | 118 | 26% | 0.01 | 11 | \$2.5 | 94% | 5.8 |
| FE-Penn Power | T8 Lamp (any length) Electronic Ballast | Standard T12 lamp (any length) | Retail | Lin. Fluor. Lighting | Early | Lamp | 223 | 42% | 0.02 | 11 | \$14 | 94% | 3.2 |
| FE-Penn Power | Time Clock Control | Lighting w/ No Controls | Retail | Lin. Fluor. Lighting | Existing | building | 12,889 | 28% | 0.3 | 8 | \$296 | 14% | 3.9 |
| FE-Penn Power | Time Clock Control | Lighting w/ No Controls | Retail | Lin. Fluor. Lighting | New | building | 12,889 | 4.1% | 0.04 | 8 | \$296 | 0% | 0.6 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | Early | motor | 3,097 | 3.6% | 0.01 | 15 | \$374 | 76% | 0.2 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | Early | motor | 3,097 | 3.6% | 0.01 | 15 | \$374 | 76% | 0.2 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | Early | motor | 3,097 | 3.6% | 0.01 | 15 | \$374 | 76% | 0.2 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | Early | motor | 3,097 | 3.6% | 0.01 | 15 | \$374 | 76% | 0.2 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | Early | motor | 3,097 | 3.6% | 0.01 | 15 | \$374 | 76% | 0.2 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | New | motor | 3,002 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Retail | Motors | New | motor | 3,002 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|--|---------|---------------------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | VFD on Condenser Water Pump | Motor w/out VFD Drive | Retail | Motors | Early | motor | 25,354 | 32% | 3.2 | 15 | \$2,903 | 86% | 2.0 |
| FE-Penn Power | VFD on Condenser Water Pump | Motor w/out VFD Drive | Retail | Motors | New | motor | 24,880 | 33% | 3.1 | 15 | \$2,843 | 86% | 2.0 |
| FE-Penn Power | VFD on Condenser Water Pump | Motor w/out VFD Drive | Retail | Motors | ROB | motor | 24,880 | 33% | 3.1 | 15 | \$2,843 | 86% | 2.0 |
| FE-Penn Power | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Retail | Motors | Early | motor | 26,743 | 56% | 0.00 | 15 | \$2,903 | 86% | 2.1 |
| FE-Penn Power | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Retail | Motors | New | motor | 26,242 | 57% | 0.00 | 15 | \$2,843 | 86% | 2.1 |
| FE-Penn Power | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Retail | Motors | ROB | motor | 26,242 | 57% | 0.00 | 15 | \$2,843 | 86% | 2.1 |
| FE-Penn Power | VFD on HVAC Fan | Motor w/out VFD | Retail | Motors | Early | motor | 25,704 | 70% | 3.4 | 15 | \$2,903 | 86% | 3.5 |
| FE-Penn Power | VFD on HVAC Fan | Motor w/out VFD | Retail | Motors | New | motor | 25,223 | 72% | 3.3 | 15 | \$2,843 | 86% | 3.5 |
| FE-Penn Power | VFD on HVAC Fan | Motor w/out VFD | Retail | Motors | ROB | motor | 25,223 | 72% | 3.3 | 15 | \$2,843 | 86% | 3.5 |
| FE-Penn Power | Elevators | Std. Eff Elevator | Retail | Other | ROB | measure | 89,016 | 0.6% | 0.07 | 15 | \$126 | 63% | 2.1 |
| FE-Penn Power | Variable Speed Drives on Process Equipment | Constant speed control | Retail | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 9.2 |
| FE-Penn Power | Variable Speed Drives on Process Equipment | Constant speed control | Retail | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 9.2 |
| FE-Penn Power | Auto Off Time Switch | Lighting w/ No Controls | Retail | Other Int. Lighting | Existing | building | 5,587 | 24% | 0.2 | 8 | \$296 | 13% | 1.7 |
| FE-Penn Power | Auto Off Time Switch | Lighting w/ No Controls | Retail | Other Int. Lighting | New | building | 5,587 | 7.0% | 0.07 | 8 | \$296 | 0% | 0.5 |
| FE-Penn Power | Central Lighting Control System | Lighting w/ No Controls | Retail | Other Int. Lighting | Existing | building | 5,587 | 38% | 0.4 | 8 | \$296 | 13% | 2.7 |
| FE-Penn Power | Central Lighting Control System | Lighting w/ No Controls | Retail | Other Int. Lighting | New | building | 5,587 | 14% | 0.1 | 8 | \$296 | 13% | 1.0 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 40W Incandescent Bulb | Retail | Other Int. Lighting | Early | lamp | 167 | 87% | 0.04 | 9 | \$30 | 14% | 2.2 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Retail | Other Int. Lighting | Early | lamp | 119 | 81% | 0.03 | 9 | \$30 | 11% | 1.5 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Retail | Other Int. Lighting | New | lamp | 91 | 81% | 0.02 | 9 | \$21 | 14% | 1.6 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Retail | Other Int. Lighting | New | lamp | 91 | 81% | 0.02 | 9 | \$23 | 14% | 1.5 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Retail | Other Int. Lighting | New | lamp | 91 | 81% | 0.02 | 9 | \$22 | 11% | 1.5 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Retail | Other Int. Lighting | ROB | lamp | 119 | 81% | 0.03 | 9 | \$21 | 14% | 2.1 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Retail | Other Int. Lighting | ROB | lamp | 119 | 81% | 0.03 | 9 | \$23 | 14% | 2.0 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Retail | Other Int. Lighting | ROB | lamp | 119 | 81% | 0.03 | 9 | \$22 | 11% | 2.0 |
| FE-Penn Power | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Retail | Other Int. Lighting | Early | lamp | 167 | 75% | 0.03 | 3 | \$73 | 24% | 0.3 |
| FE-Penn Power | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Retail | Other Int. Lighting | New | fixture | 181 | 65% | 0.03 | 13 | \$29 | 28% | 2.4 |
| FE-Penn Power | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Retail | Other Int. Lighting | New | lamp | 91 | 65% | 0.02 | 3 | \$29 | 28% | 0.4 |
| FE-Penn Power | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Retail | Other Int. Lighting | ROB | fixture | 239 | 65% | 0.04 | 13 | \$29 | 24% | 3.2 |
| FE-Penn Power | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Retail | Other Int. Lighting | ROB | lamp | 119 | 65% | 0.02 | 3 | \$29 | 24% | 0.5 |
| FE-Penn Power | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Retail | Other Int. Lighting | Early | lamp | 167 | 75% | 0.03 | 3 | \$3.2 | 24% | 7.5 |
| FE-Penn Power | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Retail | Other Int. Lighting | New | lamp | 91 | 65% | 0.02 | 3 | \$1.8 | 24% | 6.4 |
| FE-Penn Power | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Retail | Other Int. Lighting | ROB | lamp | 119 | 65% | 0.02 | 3 | \$1.8 | 24% | 8.4 |
| FE-Penn Power | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Retail | Other Int. Lighting | ROB | lamp | 119 | 65% | 0.02 | 3 | \$1.8 | 24% | 8.4 |
| FE-Penn Power | Exit Sign Retrofit: CFL replacing Incandescent | One 23W Single Sided Incandescent Exit Sign | Retail | Other Int. Lighting | Early | exit sign | 130 | 42% | 0.01 | 15 | \$48 | 22% | 0.6 |
| FE-Penn Power | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Retail | Other Int. Lighting | New | building | 5,587 | 10% | 0.1 | 15 | \$29,254 | 32% | 0.0 |
| FE-Penn Power | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Retail | Other Int. Lighting | New | building | 5,587 | 15% | 0.2 | 15 | \$73,134 | 32% | 0.0 |
| FE-Penn Power | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Retail | Other Int. Lighting | New | building | 5,587 | 30% | 0.3 | 15 | \$104,825 | 32% | 0.0 |
| FE-Penn Power | Indoor Daylight Sensors | Lighting w/ No Controls | Retail | Other Int. Lighting | Existing | building | 5,587 | 28% | 0.3 | 8 | \$1,459 | 13% | 0.4 |
| FE-Penn Power | Indoor Daylight Sensors | Lighting w/ No Controls | Retail | Other Int. Lighting | New | building | 5,587 | 4.1% | 0.04 | 8 | \$1,459 | 0% | 0.1 |
| FE-Penn Power | LED Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Retail | Other Int. Lighting | Early | sign | 153 | 87% | 0.02 | 15 | \$48 | 16% | 1.5 |
| FE-Penn Power | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Retail | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 1.6 |
| FE-Penn Power | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Retail | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 1.6 |
| FE-Penn Power | LED Task Lighting/Screw-In | 1 15W CFL bulb | Retail | Other Int. Lighting | Early | lamp | 34 | 33% | 0.00 | 10 | \$9.6 | 24% | 0.6 |
| FE-Penn Power | LED Task Lighting/Screw-In | 1 60W Incandescent Bulb | Retail | Other Int. Lighting | Early | lamp | 136 | 83% | 0.03 | 10 | \$9.6 | 24% | 5.9 |
| FE-Penn Power | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Retail | Other Int. Lighting | New | lamp | 74 | 77% | 0.02 | 10 | \$7.9 | 24% | 3.6 |
| FE-Penn Power | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Retail | Other Int. Lighting | New | lamp | 74 | 77% | 0.02 | 10 | \$7.9 | 24% | 3.6 |
| FE-Penn Power | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Retail | Other Int. Lighting | ROB | lamp | 98 | 77% | 0.02 | 10 | \$7.9 | 24% | 4.7 |
| FE-Penn Power | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Retail | Other Int. Lighting | ROB | lamp | 98 | 77% | 0.02 | 10 | \$7.9 | 24% | 4.7 |
| FE-Penn Power | Occupancy Sensor | Lighting w/ No Controls | Retail | Other Int. Lighting | Existing | building | 5,587 | 24% | 0.2 | 8 | \$447 | 12% | 1.1 |
| FE-Penn Power | Occupancy Sensor | Lighting w/ No Controls | Retail | Other Int. Lighting | New | building | 5,587 | 7.0% | 0.07 | 8 | \$447 | 0% | 0.3 |
| FE-Penn Power | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Retail | Other Int. Lighting | Existing | building | 5,587 | 28% | 0.3 | 8 | \$1,459 | 12% | 0.4 |
| FE-Penn Power | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Retail | Other Int. Lighting | New | building | 5,587 | 4.1% | 0.04 | 8 | \$1,459 | 0% | 0.1 |
| FE-Penn Power | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Retail | Other Int. Lighting | Early | exit sign | 130 | 100% | 0.02 | 15 | \$173 | 26% | 0.4 |
| FE-Penn Power | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Retail | Other Int. Lighting | New | exit sign | 75 | 100% | 0.01 | 15 | \$148 | 31% | 0.3 |
| FE-Penn Power | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Retail | Other Int. Lighting | ROB | exit sign | 75 | 100% | 0.01 | 15 | \$148 | 26% | 0.3 |
| FE-Penn Power | Time Clock Control | Lighting w/ No Controls | Retail | Other Int. Lighting | Existing | building | 5,587 | 28% | 0.3 | 8 | \$296 | 13% | 2.0 |
| FE-Penn Power | Time Clock Control | Lighting w/ No Controls | Retail | Other Int. Lighting | New | building | 5,587 | 4.1% | 0.04 | 8 | \$296 | 0% | 0.3 |
| FE-Penn Power | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Retail | Plug Load | Existing | building | 2,913 | 46% | 0.5 | 5 | \$189 | 4% | 2.2 |
| FE-Penn Power | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Retail | Plug Load | New | building | 1,422 | 46% | 0.5 | 5 | \$189 | 4% | 1.5 |
| FE-Penn Power | Data Center - Server/Storage Consolidation | No Consolidation | Retail | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penn Power | Data Center - Server/Storage Consolidation | No Consolidation | Retail | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penn Power | Data Center - Server/Storage Virtualization | No Virtualization | Retail | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penn Power | Data Center - Server/Storage Virtualization | No Virtualization | Retail | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penn Power | Energy Star - Scanners | Std Scanner | Retail | Plug Load | New | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| FE-Penn Power | Energy Star - Scanners | Std Scanner | Retail | Plug Load | ROB | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| FE-Penn Power | Energy Star Battery Charging System (for small cordless products) | Std. Battery Charging System | Retail | Plug Load | ROB | measure | 593 | 2.3% | 0.1 | 5 | \$65 | 4% | 0.7 |
| FE-Penn Power | Energy Star Dishwasher | Existing Dishwasher units | Retail | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,580 | 1% | 0.9 |
| FE-Penn Power | Energy Star Dishwasher | Standard Dishwasher unit | Retail | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 1% | 2.8 |
| FE-Penn Power | Energy Star Dishwasher | Standard Dishwasher unit | Retail | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 1% | 2.8 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|--|---|---------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Energy Star External Power Adapter | Std. Power Adapter | Retail | Plug Load | New | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| FE-Penn Power | Energy Star External Power Adapter | Std. Power Adapter | Retail | Plug Load | ROB | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| FE-Penn Power | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Retail | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 17% | 0.1 |
| FE-Penn Power | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Retail | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 1.7 |
| FE-Penn Power | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Retail | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 1.7 |
| FE-Penn Power | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Retail | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 9% | 0.7 |
| FE-Penn Power | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Retail | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.5 |
| FE-Penn Power | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Retail | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.5 |
| FE-Penn Power | ENERGY STAR® Copiers | 10% Less Efficient Copier | Retail | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 18% | 0.0 |
| FE-Penn Power | ENERGY STAR® Copiers | One Conventional Copier | Retail | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| FE-Penn Power | ENERGY STAR® Copiers | One Conventional Copier | Retail | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| FE-Penn Power | ENERGY STAR® desktop | Standard computer | Retail | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 69% | 0.1 |
| FE-Penn Power | ENERGY STAR® desktop | Standard computer | Retail | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.2 |
| FE-Penn Power | ENERGY STAR® desktop | Standard computer | Retail | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.2 |
| FE-Penn Power | ENERGY STAR® Fax | 10% Less Efficient Fax | Retail | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 15% | 0.0 |
| FE-Penn Power | ENERGY STAR® Fax | One Conventional Fax | Retail | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.1 |
| FE-Penn Power | ENERGY STAR® Fax | One Conventional Fax | Retail | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.1 |
| FE-Penn Power | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Retail | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 70% | 0.0 |
| FE-Penn Power | ENERGY STAR® Monitors | One Conventional Monitor | Retail | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| FE-Penn Power | ENERGY STAR® Monitors | One Conventional Monitor | Retail | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| FE-Penn Power | ENERGY STAR® Printers | 10% Less Efficient Printer | Retail | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 44% | 0.0 |
| FE-Penn Power | ENERGY STAR® Printers | One Conventional Printer | Retail | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| FE-Penn Power | ENERGY STAR® Printers | One Conventional Printer | Retail | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| FE-Penn Power | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Retail | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 43% | 0.1 |
| FE-Penn Power | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Retail | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.6 |
| FE-Penn Power | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Retail | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.6 |
| FE-Penn Power | ENERGY STAR® Televisions | 10% Less Efficient Television | Retail | Plug Load | Early | Unit | 228 | 38% | 0.02 | 6 | \$672 | 40% | 0.0 |
| FE-Penn Power | ENERGY STAR® Televisions | One Conventional Television | Retail | Plug Load | New | Unit | 207 | 32% | 0.02 | 6 | \$206 | 40% | 0.1 |
| FE-Penn Power | ENERGY STAR® Televisions | One Conventional Television | Retail | Plug Load | ROB | Unit | 207 | 32% | 0.02 | 6 | \$206 | 40% | 0.1 |
| FE-Penn Power | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Retail | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 24% | 0.2 |
| FE-Penn Power | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Retail | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.5 |
| FE-Penn Power | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Retail | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.5 |
| FE-Penn Power | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Retail | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.2 |
| FE-Penn Power | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Retail | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.2 |
| FE-Penn Power | Network PC Power Management | No PC Power Management | Retail | Plug Load | Existing | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 6.4 |
| FE-Penn Power | Network PC Power Management | No PC Power Management | Retail | Plug Load | New | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 6.4 |
| FE-Penn Power | Smart Strip Plug Outlets | Standard plug strip/outlet | Retail | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.3 |
| FE-Penn Power | Smart Strip Plug Outlets | Standard plug strip/outlet | Retail | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.3 |
| FE-Penn Power | Smart Strip Plug Outlets | Standard plug strip/outlet | Retail | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| FE-Penn Power | Smart Strip Plug Outlets | Standard plug strip/outlet | Retail | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| FE-Penn Power | Smart Strip Plug Outlets | Standard plug strip/outlet | Retail | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| FE-Penn Power | Smart Strip Plug Outlets | Standard plug strip/outlet | Retail | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| FE-Penn Power | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Retail | Plug Load | Existing | building | 2,913 | 46% | 0.5 | 5 | \$180 | 3% | 2.3 |
| FE-Penn Power | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Retail | Plug Load | New | building | 1,422 | 46% | 0.5 | 5 | \$180 | 3% | 1.6 |
| FE-Penn Power | Air curtain technology | Strip plastic curtain | Retail | Refrigeration | New | building | 6,419 | 6.8% | 0.07 | 8 | \$761 | 35% | 0.2 |
| FE-Penn Power | Air curtain technology | Strip plastic curtain | Retail | Refrigeration | New | building | 3,709 | 6.8% | 0.07 | 8 | \$761 | 35% | 0.1 |
| FE-Penn Power | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Retail | Refrigeration | Existing | building | 1,038 | 7.7% | 0.08 | 12 | \$70 | 11% | 1.1 |
| FE-Penn Power | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Retail | Refrigeration | New | building | 1,038 | 7.7% | 0.08 | 12 | \$70 | 11% | 1.1 |
| FE-Penn Power | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Retail | Refrigeration | Existing | building | 1,038 | 9.7% | 0.10 | 12 | \$70 | 11% | 1.4 |
| FE-Penn Power | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Retail | Refrigeration | New | building | 1,038 | 9.7% | 0.10 | 12 | \$70 | 11% | 1.4 |
| FE-Penn Power | Auto Closer on Refrigerator Door | Door w/out Autocloser | Retail | Refrigeration | Existing | building | 3,709 | 31% | 0.3 | 8 | \$963 | 40% | 0.5 |
| FE-Penn Power | Auto Closer on Refrigerator Door | Door w/out Autocloser | Retail | Refrigeration | Existing | building | 6,419 | 13% | 0.1 | 8 | \$728 | 40% | 0.4 |
| FE-Penn Power | Auto Closer on Refrigerator Door | Door w/out Autocloser | Retail | Refrigeration | New | building | 3,709 | 31% | 0.3 | 8 | \$963 | 40% | 0.5 |
| FE-Penn Power | Auto Closer on Refrigerator Door | Door w/out Autocloser | Retail | Refrigeration | New | building | 6,419 | 13% | 0.1 | 8 | \$728 | 40% | 0.4 |
| FE-Penn Power | Demand Hot Gas Defrost | Base Refrigeration System | Retail | Refrigeration | Existing | building | 1,038 | 3.0% | 0.03 | 10 | \$1,349 | 0% | 0.0 |
| FE-Penn Power | Demand Hot Gas Defrost | Base Refrigeration System | Retail | Refrigeration | New | building | 1,038 | 3.0% | 0.03 | 10 | \$1,349 | 0% | 0.0 |
| FE-Penn Power | Door Gasket- Freezer | Door w/out Gasket | Retail | Refrigeration | Existing | building | 3,709 | 17% | 0.2 | 4 | \$99 | 29% | 1.5 |
| FE-Penn Power | Door Gasket- Freezer | Door w/out Gasket | Retail | Refrigeration | New | building | 3,709 | 11% | 0.1 | 4 | \$99 | 29% | 1.0 |
| FE-Penn Power | Door Gasket- Refrigerator | Door w/out Gasket | Retail | Refrigeration | Existing | building | 6,419 | 4.1% | 0.04 | 4 | \$101 | 45% | 0.5 |
| FE-Penn Power | Door Gasket- Refrigerator | Door w/out Gasket | Retail | Refrigeration | New | building | 6,419 | 4.1% | 0.04 | 4 | \$101 | 45% | 0.5 |
| FE-Penn Power | Economizer for Walk-in Coolers | No Economizer | Retail | Refrigeration | Early | measure | 11,267 | 6.6% | 0.1 | 10 | \$131 | 72% | 2.2 |
| FE-Penn Power | Economizer for Walk-in Coolers | No Economizer | Retail | Refrigeration | Early | measure | 11,267 | 6.6% | 0.1 | 10 | \$131 | 72% | 2.2 |
| FE-Penn Power | Economizer for Walk-in Coolers | No Economizer | Retail | Refrigeration | Early | measure | 11,267 | 6.6% | 0.1 | 10 | \$131 | 72% | 2.2 |
| FE-Penn Power | Economizer for Walk-in Coolers | No Economizer | Retail | Refrigeration | New | measure | 11,267 | 6.6% | 0.1 | 10 | \$15 | 72% | 18.7 |
| FE-Penn Power | Economizer for Walk-in Coolers | No Economizer | Retail | Refrigeration | New | measure | 11,267 | 6.6% | 0.1 | 10 | \$15 | 72% | 18.7 |
| FE-Penn Power | Economizer for Walk-in Coolers | No Economizer | Retail | Refrigeration | ROB | measure | 11,267 | 6.6% | 0.1 | 10 | \$15 | 72% | 18.6 |
| FE-Penn Power | Economizer for Walk-in Coolers | No Economizer | Retail | Refrigeration | ROB | measure | 11,267 | 6.6% | 0.1 | 10 | \$15 | 72% | 18.7 |
| FE-Penn Power | Economizer for Walk-in Coolers | No Economizer | Retail | Refrigeration | ROB | measure | 11,267 | 6.6% | 0.1 | 10 | \$15 | 72% | 18.7 |
| FE-Penn Power | eCube | Refrigeration unit w/out eCube | Retail | Refrigeration | Existing | building | 6,419 | 15% | 0.2 | 15 | \$413 | 57% | 1.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|---|---------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | eCube | Refrigeration unit w/out eCube | Retail | Refrigeration | New | building | 6,419 | 15% | 0.2 | 15 | \$413 | 57% | 1.2 |
| FE-Penn Power | Efficient compressor motor | Base Refrigeration System - Grocery | Retail | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.3 |
| FE-Penn Power | Efficient compressor motor | Base Refrigeration System - Grocery | Retail | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.4 |
| FE-Penn Power | Efficient compressor motor | Base Refrigeration System - Grocery | Retail | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.4 |
| FE-Penn Power | Efficient compressor motor | Base Refrigeration System - Grocery | Retail | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.4 |
| FE-Penn Power | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Retail | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.4 |
| FE-Penn Power | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Retail | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.2 |
| FE-Penn Power | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Retail | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.2 |
| FE-Penn Power | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Retail | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.2 |
| FE-Penn Power | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Retail | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.6 |
| FE-Penn Power | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Retail | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.6 |
| FE-Penn Power | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Retail | Refrigeration | Existing | building | 6,419 | 1.5% | 0.02 | 10 | \$369 | 77% | 0.1 |
| FE-Penn Power | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Retail | Refrigeration | New | building | 6,419 | 1.5% | 0.02 | 10 | \$369 | 77% | 0.1 |
| FE-Penn Power | Floating head pressure controller | System w/out FHPC | Retail | Refrigeration | Existing | building | 3,709 | 6.2% | 0.02 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penn Power | Floating head pressure controller | System w/out FHPC | Retail | Refrigeration | Existing | building | 1,038 | 9.2% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penn Power | Floating head pressure controller | System w/out FHPC | Retail | Refrigeration | Existing | building | 6,419 | 1.2% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penn Power | Floating head pressure controller | System w/out FHPC | Retail | Refrigeration | New | building | 3,709 | 6.2% | 0.02 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penn Power | Floating head pressure controller | System w/out FHPC | Retail | Refrigeration | New | building | 1,038 | 9.2% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penn Power | Floating head pressure controller | System w/out FHPC | Retail | Refrigeration | New | building | 6,419 | 1.2% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penn Power | High Efficiency Commercial Freezer | Std. Commercial Freezer | Retail | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 86% | 0.3 |
| FE-Penn Power | High Efficiency Commercial Freezer | Std. Commercial Freezer | Retail | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 3.2 |
| FE-Penn Power | High Efficiency Commercial Freezer | Std. Commercial Freezer | Retail | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 3.2 |
| FE-Penn Power | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Retail | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 2% | 0.1 |
| FE-Penn Power | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Retail | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.7 |
| FE-Penn Power | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Retail | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.7 |
| FE-Penn Power | High Efficiency Ice Maker | Exisiting Standard Efficiency Ice Maker in Pennsylvania | Retail | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 73% | 0.1 |
| FE-Penn Power | High Efficiency Ice Maker | Standard code minimum Ice Maker | Retail | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.1 |
| FE-Penn Power | High Efficiency Ice Maker | Standard code minimum Ice Maker | Retail | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.1 |
| FE-Penn Power | High Efficiency Ice Making Head | Standard Ice Making Head | Retail | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.2 |
| FE-Penn Power | High Efficiency Ice Making Head | Standard Ice Making Head | Retail | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.2 |
| FE-Penn Power | High R-Value Glass Doors | Base Refrigeration System - Grocery | Retail | Refrigeration | Existing | building | 1,038 | 0.7% | 0.01 | 10 | \$17 | 0% | 0.4 |
| FE-Penn Power | High R-Value Glass Doors | Base Refrigeration System - Grocery | Retail | Refrigeration | New | building | 1,038 | 0.7% | 0.01 | 10 | \$17 | 0% | 0.4 |
| FE-Penn Power | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Retail | Refrigeration | Early | Fixture | 373 | 56% | 0.02 | 8 | \$448 | 47% | 0.1 |
| FE-Penn Power | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Retail | Refrigeration | New | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 47% | 0.3 |
| FE-Penn Power | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Retail | Refrigeration | ROB | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 47% | 0.3 |
| FE-Penn Power | No-heat glass doors | Standard low-temp reach-in | Retail | Refrigeration | Existing | building | 1,038 | 20% | 0.2 | 10 | \$1,560 | 8% | 0.1 |
| FE-Penn Power | No-heat glass doors | Standard low-temp reach-in | Retail | Refrigeration | New | building | 1,038 | 20% | 0.2 | 10 | \$1,560 | 8% | 0.1 |
| FE-Penn Power | Quick acting freezer doors | Std. Freezer Doors | Retail | Refrigeration | Existing | building | 3,709 | 13% | 0.1 | 10 | \$918 | 56% | 0.2 |
| FE-Penn Power | Quick acting freezer doors | Std. Freezer Doors | Retail | Refrigeration | New | building | 3,709 | 13% | 0.1 | 10 | \$918 | 56% | 0.2 |
| FE-Penn Power | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Retail | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 30% | 0.3 |
| FE-Penn Power | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Retail | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.3 |
| FE-Penn Power | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Retail | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.3 |
| FE-Penn Power | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 30% | 1.3 |
| FE-Penn Power | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 2.2 |
| FE-Penn Power | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 2.2 |
| FE-Penn Power | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 30% | 1.3 |
| FE-Penn Power | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 3.0 |
| FE-Penn Power | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 3.0 |
| FE-Penn Power | Refrigeration Commissioning | Non-commissioned refrigeration system | Retail | Refrigeration | Existing | building | 11,571 | 9.5% | 0.10 | 3 | \$1,199 | 85% | 0.1 |
| FE-Penn Power | Refrigeration Commissioning | Non-commissioned refrigeration system | Retail | Refrigeration | New | building | 11,571 | 9.5% | 0.10 | 3 | \$1,199 | 85% | 0.1 |
| FE-Penn Power | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Retail | Refrigeration | Existing | building | 3,709 | 40% | 0.4 | 4 | \$120 | 22% | 2.9 |
| FE-Penn Power | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Retail | Refrigeration | Existing | building | 6,419 | 5.7% | 0.06 | 4 | \$122 | 22% | 0.6 |
| FE-Penn Power | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Retail | Refrigeration | New | building | 3,709 | 40% | 0.4 | 4 | \$120 | 22% | 2.9 |
| FE-Penn Power | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Retail | Refrigeration | New | building | 6,419 | 5.7% | 0.06 | 4 | \$122 | 22% | 0.6 |
| FE-Penn Power | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Retail | Refrigeration | Existing | building | 3,709 | 5.6% | 0.06 | 11 | \$127 | 79% | 0.8 |
| FE-Penn Power | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Retail | Refrigeration | New | building | 3,709 | 5.6% | 0.06 | 11 | \$127 | 79% | 0.8 |
| FE-Penn Power | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Retail | Refrigeration | Existing | building | 6,419 | 4.3% | 0.04 | 11 | \$127 | 79% | 0.9 |
| FE-Penn Power | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Retail | Refrigeration | New | building | 6,419 | 4.3% | 0.04 | 11 | \$127 | 79% | 0.9 |
| FE-Penn Power | Vendor Miser | No Vendor Miser | Retail | Refrigeration | Existing | building | 405 | 12% | 0.1 | 8 | \$40 | 7% | 2.0 |
| FE-Penn Power | Vertical Night Covers | Display cases w/out night covers-High Temperature | Retail | Refrigeration | Existing | building | 1,038 | 0.6% | 0.01 | 5 | \$56 | 9% | 0.1 |
| FE-Penn Power | Vertical Night Covers | Display cases w/out night covers-High Temperature | Retail | Refrigeration | New | building | 1,038 | 0.6% | 0.01 | 5 | \$56 | 9% | 0.1 |
| FE-Penn Power | VSD Controlled Compressor | Compressor w/out VSD | Retail | Refrigeration | Early | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|---|---------|-----------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | VSD Controlled Compressor | Compressor w/out VSD | Retail | Refrigeration | New | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |
| FE-Penn Power | VSD Controlled Compressor | Compressor w/out VSD | Retail | Refrigeration | ROB | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |
| FE-Penn Power | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Retail | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$269 | 35% | 0.7 |
| FE-Penn Power | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Retail | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$269 | 35% | 0.7 |
| FE-Penn Power | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Retail | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 2.4 |
| FE-Penn Power | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Retail | Refrigeration | New | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 2.3 |
| FE-Penn Power | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Retail | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 2.4 |
| FE-Penn Power | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Retail | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 2.3 |
| FE-Penn Power | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 35% | 1.9 |
| FE-Penn Power | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 35% | 1.8 |
| FE-Penn Power | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 3.9 |
| FE-Penn Power | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 3.7 |
| FE-Penn Power | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 3.9 |
| FE-Penn Power | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 3.7 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Retail | Space Heating | Existing | building | 17,752 | 7.1% | 0.07 | 6 | \$14,239 | 82% | 0.0 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Retail | Space Heating | New | building | 17,752 | 7.1% | 0.07 | 6 | \$14,239 | 82% | 0.0 |
| FE-Penn Power | Adding window shade film | No shade film | Retail | Space Heating | Existing | building | 17,752 | 1.3% | 0.4 | 10 | \$216 | 13% | 1.4 |
| FE-Penn Power | Adding window shade film | No shade film | Retail | Space Heating | New | building | 17,752 | 1.3% | 0.4 | 10 | \$216 | 13% | 1.4 |
| FE-Penn Power | Adding window shade screen | No shade screen | Retail | Space Heating | Existing | building | 17,752 | 1.1% | 0.01 | 10 | \$84 | 13% | 0.8 |
| FE-Penn Power | Adding window shade screen | No shade screen | Retail | Space Heating | New | building | 17,752 | 1.1% | 0.01 | 10 | \$84 | 13% | 0.7 |
| FE-Penn Power | Automated control system | Manual Controls | Retail | Space Heating | Existing | building | 17,752 | 17% | 0.2 | 15 | \$19,434 | 51% | 0.1 |
| FE-Penn Power | Automated control system | Manual Controls | Retail | Space Heating | New | building | 17,752 | 17% | 0.2 | 15 | \$19,434 | 94% | 0.1 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Retail | Space Heating | Existing | building | 17,752 | 4.9% | 0.05 | 15 | \$19,662 | 71% | 0.0 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Retail | Space Heating | New | building | 17,752 | 1.6% | 0.02 | 15 | \$18,689 | 94% | 0.0 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Retail | Space Heating | Existing | building | 17,752 | 1.4% | 0.04 | 15 | \$141 | 20% | 0.9 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Retail | Space Heating | New | building | 17,752 | 1.4% | 0.04 | 15 | \$141 | 10% | 0.9 |
| FE-Penn Power | Efficient Unit Heating System | Existing Unit Heaters in PA | Retail | Space Heating | Early | heater | 17,965 | 23% | 0.03 | 15 | \$3,289 | 83% | 0.5 |
| FE-Penn Power | Efficient Unit Heating System | Std. Unit Heater | Retail | Space Heating | New | heater | 15,944 | 13% | 0.02 | 15 | \$1,991 | 83% | 0.4 |
| FE-Penn Power | Efficient Unit Heating System | Std. Unit Heater | Retail | Space Heating | ROB | heater | 15,944 | 13% | 0.02 | 15 | \$1,991 | 83% | 0.4 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Retail | Space Heating | Existing | building | 17,752 | 7.1% | 0.07 | 15 | \$78,742 | 25% | 0.0 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Retail | Space Heating | New | building | 17,752 | 7.1% | 0.07 | 15 | \$78,742 | 35% | 0.0 |
| FE-Penn Power | Hi Eff HVAC System Design | No HVAC Design | Retail | Space Heating | New | building | 17,752 | 11% | 0.1 | 10 | \$175,171 | 51% | 0.0 |
| FE-Penn Power | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Retail | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 0.8 |
| FE-Penn Power | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Retail | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 0.8 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Retail | Space Heating | Existing | building | 17,752 | 2.3% | 0.02 | 10 | \$7,735 | 81% | 0.0 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Retail | Space Heating | New | building | 17,752 | 2.3% | 0.02 | 10 | \$7,735 | 81% | 0.0 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Retail | Space Heating | Existing | building | 17,752 | 3.6% | 0.04 | 11 | \$286 | 49% | 0.8 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Retail | Space Heating | New | building | 17,752 | 3.1% | 0.03 | 11 | \$146 | 49% | 1.3 |
| FE-Penn Power | Re-Commissioning (Existing Construction) | No Re-Commissioning | Retail | Space Heating | Existing | building | 17,752 | 16% | 0.2 | 5 | \$8,051 | 86% | 0.1 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Retail | Space Heating | Existing | building | 17,752 | 8.1% | 0.08 | 15 | \$5,499 | 26% | 0.1 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Retail | Space Heating | New | building | 17,752 | 0.3% | 0.00 | 15 | \$4,218 | 94% | 0.0 |
| FE-Penn Power | Green LED Traffic Light | Green Incandescent Traffic Light | Retail | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 0% | 1.0 |
| FE-Penn Power | Green LED Traffic Light | Green Incandescent Traffic Light | Retail | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| FE-Penn Power | Green LED Traffic Light | Green Incandescent Traffic Light | Retail | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| FE-Penn Power | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Retail | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 0% | 2.6 |
| FE-Penn Power | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Retail | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-Penn Power | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Retail | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-Penn Power | Induction Street Lighting | One 100W HPS Street Light Fixture | Retail | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 0% | 0.2 |
| FE-Penn Power | Induction Street Lighting | One 100W HPS Street Light Fixture | Retail | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.4 |
| FE-Penn Power | Induction Street Lighting | One 100W HPS Street Light Fixture | Retail | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.4 |
| FE-Penn Power | LED Street Lighting | One 100W HPS Street Light | Retail | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 0% | 0.2 |
| FE-Penn Power | LED Street Lighting | One 100W HPS Street Light | Retail | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-Penn Power | LED Street Lighting | One 100W HPS Street Light | Retail | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-Penn Power | Red LED Traffic Light | One Red Incandescent Traffic Light | Retail | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 0% | 1.4 |
| FE-Penn Power | Red LED Traffic Light | One Red Incandescent Traffic Light | Retail | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.2 |
| FE-Penn Power | Red LED Traffic Light | One Red Incandescent Traffic Light | Retail | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.2 |
| FE-Penn Power | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Retail | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 0% | 0.1 |
| FE-Penn Power | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Retail | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-Penn Power | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Retail | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-Penn Power | Demand controlled Circulating Systems | Constant circulation system | Retail | Water Heating | Existing | building | 6,522 | 20% | 0.2 | 15 | \$1,183 | 59% | 0.6 |
| FE-Penn Power | Demand controlled Circulating Systems | Constant circulation system | Retail | Water Heating | New | building | 6,522 | 20% | 0.2 | 15 | \$1,183 | 59% | 0.6 |
| FE-Penn Power | Drainwater Heat Recovery Water Heater | No heat recovery | Retail | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.5 |
| FE-Penn Power | Drainwater Heat Recovery Water Heater | No heat recovery | Retail | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.5 |
| FE-Penn Power | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Retail | Water Heating | Existing | building | 6,522 | 5.9% | 0.06 | 12 | \$14 | 85% | 12.9 |
| FE-Penn Power | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Retail | Water Heating | New | building | 6,522 | 5.9% | 0.06 | 12 | \$4.0 | 85% | 45.1 |
| FE-Penn Power | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Retail | Water Heating | Early | water heater | 4,077 | 66% | 0.5 | 10 | \$1,187 | 68% | 1.0 |
| FE-Penn Power | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Retail | Water Heating | Early | water heater | 4,077 | 66% | 0.5 | 10 | \$1,187 | 68% | 1.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|--|---|-----------------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Retail | Water Heating | New | water heater | 4,077 | 66% | 0.5 | 10 | \$1,187 | 68% | 1.0 |
| FE-Penn Power | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Retail | Water Heating | New | water heater | 4,077 | 66% | 0.5 | 10 | \$1,187 | 68% | 1.0 |
| FE-Penn Power | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Retail | Water Heating | ROB | water heater | 3,963 | 65% | 0.5 | 10 | \$1,187 | 68% | 0.9 |
| FE-Penn Power | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Retail | Water Heating | ROB | water heater | 3,963 | 65% | 0.5 | 10 | \$1,187 | 68% | 0.9 |
| FE-Penn Power | Heat Recovery Unit | Base Water Heating | Retail | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.3 |
| FE-Penn Power | Heat Recovery Unit | Base Water Heating | Retail | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.3 |
| FE-Penn Power | Heat Trap | No Heat Trap | Retail | Water Heating | Existing | building | 6,522 | 22% | 0.2 | 11 | \$44 | 50% | 14.4 |
| FE-Penn Power | Heat Trap | No Heat Trap | Retail | Water Heating | New | building | 6,522 | 22% | 0.2 | 11 | \$6.6 | 50% | 96.8 |
| FE-Penn Power | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Retail | Water Heating | Early | water heater | 4,077 | 5.9% | 0.04 | 15 | \$307 | 79% | 0.4 |
| FE-Penn Power | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Retail | Water Heating | Early | water heater | 4,077 | 5.9% | 0.04 | 15 | \$307 | 79% | 0.4 |
| FE-Penn Power | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Retail | Water Heating | New | water heater | 3,963 | 3.2% | 0.02 | 15 | \$307 | 79% | 0.2 |
| FE-Penn Power | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Retail | Water Heating | New | water heater | 3,963 | 3.2% | 0.02 | 15 | \$307 | 79% | 0.2 |
| FE-Penn Power | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Retail | Water Heating | ROB | water heater | 3,963 | 3.2% | 0.02 | 15 | \$307 | 79% | 0.2 |
| FE-Penn Power | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Retail | Water Heating | ROB | water heater | 3,963 | 3.2% | 0.02 | 15 | \$307 | 79% | 0.2 |
| FE-Penn Power | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Retail | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$466 | 81% | 32.0 |
| FE-Penn Power | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Retail | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 16.7 |
| FE-Penn Power | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Retail | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 16.7 |
| FE-Penn Power | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Retail | Water Heating | Existing | building | 6,522 | 0.5% | 0.01 | 13 | \$4.8 | 68% | 3.5 |
| FE-Penn Power | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Retail | Water Heating | New | building | 6,522 | 0.5% | 0.01 | 13 | \$4.8 | 0% | 3.5 |
| FE-Penn Power | Hot Water Circulation Pump Time-Clock | Constant circulation system | Retail | Water Heating | Existing | building | 6,522 | 5.3% | 0.05 | 10 | \$26 | 72% | 5.5 |
| FE-Penn Power | Hot Water Circulation Pump Time-Clock | Constant circulation system | Retail | Water Heating | New | building | 6,522 | 5.3% | 0.05 | 10 | \$26 | 72% | 5.5 |
| FE-Penn Power | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Retail | Water Heating | Existing | building | 5,995 | 2.3% | 0.02 | 7 | \$22 | 78% | 2.1 |
| FE-Penn Power | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Retail | Water Heating | New | building | 5,995 | 2.1% | 0.02 | 7 | \$0.5 | 78% | 84.2 |
| FE-Penn Power | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Retail | Water Heating | Existing | building | 6,522 | 3.0% | 0.03 | 5 | \$300 | 0% | 0.2 |
| FE-Penn Power | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Retail | Water Heating | New | building | 6,522 | 2.0% | 0.02 | 5 | \$194 | 0% | 0.2 |
| FE-Penn Power | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Retail | Water Heating | Existing | building | 6,522 | 6.5% | 0.07 | 9 | \$25 | 2% | 6.6 |
| FE-Penn Power | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Retail | Water Heating | New | building | 6,522 | 6.5% | 0.07 | 9 | \$6.0 | 2% | 27.5 |
| FE-Penn Power | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Retail | Water Heating | Early | water heater | 4,077 | 52% | 0.2 | 15 | \$6,222 | 32% | 0.2 |
| FE-Penn Power | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Retail | Water Heating | New | water heater | 3,963 | 51% | 0.2 | 15 | \$6,222 | 32% | 0.2 |
| FE-Penn Power | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Retail | Water Heating | ROB | water heater | 3,963 | 51% | 0.2 | 15 | \$6,222 | 32% | 0.2 |
| FE-Penn Power | Ultrasonic Faucet Control | Manual Faucet Control | Retail | Water Heating | Existing | building | 6,522 | 3.0% | 0.03 | 10 | \$1,128 | 77% | 0.1 |
| FE-Penn Power | Ultrasonic Faucet Control | Manual Faucet Control | Retail | Water Heating | New | building | 6,522 | 3.0% | 0.03 | 10 | \$1,128 | 77% | 0.1 |
| FE-Penn Power | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Retail | Water Heating | Existing | building | 6,522 | 2.2% | 0.02 | 4 | \$28 | 83% | 1.1 |
| FE-Penn Power | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Retail | Water Heating | New | building | 6,522 | 2.3% | 0.02 | 4 | \$28 | 83% | 1.1 |
| FE-Penn Power | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Street Lighting | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 0.9 |
| FE-Penn Power | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Street Lighting | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 0.9 |
| FE-Penn Power | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Street Lighting | Cooking | Early | steamer | 51 | 46% | 0.00 | 12 | \$5,053 | 81% | 0.0 |
| FE-Penn Power | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Street Lighting | Cooking | New | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-Penn Power | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Street Lighting | Cooking | ROB | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-Penn Power | Electric combination oven (Energy Star) | Standard Oven | Street Lighting | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.5 |
| FE-Penn Power | Electric combination oven (Energy Star) | Standard Oven | Street Lighting | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.5 |
| FE-Penn Power | Electric Convection Oven | Conventional convection oven w/ 65% efficiency | Street Lighting | Cooking | Early | oven | 8,641 | 37% | 0.6 | 12 | \$4,119 | 81% | 0.4 |
| FE-Penn Power | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Street Lighting | Cooking | New | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.6 |
| FE-Penn Power | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Street Lighting | Cooking | ROB | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.6 |
| FE-Penn Power | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Street Lighting | Cooking | Early | fryer | 6,105 | 23% | 0.3 | 12 | \$9,241 | 86% | 0.1 |
| FE-Penn Power | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Street Lighting | Cooking | New | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| FE-Penn Power | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Street Lighting | Cooking | ROB | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| FE-Penn Power | High Efficiency Griddle (ENERGY STAR) | Efficiency code minimum griddle (70% eff) | Street Lighting | Cooking | Early | griddle | 11,317 | 65% | 1.4 | 12 | \$4,977 | 86% | 0.7 |
| FE-Penn Power | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Street Lighting | Cooking | New | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.0 |
| FE-Penn Power | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Street Lighting | Cooking | ROB | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.0 |
| FE-Penn Power | High Efficiency Induction Cooking | Standard Cooking | Street Lighting | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-Penn Power | High Efficiency Induction Cooking | Standard Cooking | Street Lighting | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Street Lighting | Cooling Central | Existing | building | 1,562 | 7.0% | 0.07 | 6 | \$12,283 | 82% | 0.0 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Street Lighting | Cooling Central | New | building | 1,562 | 7.0% | 0.07 | 6 | \$12,283 | 82% | 0.0 |
| FE-Penn Power | Adding window shade film | No shade film | Street Lighting | Cooling Central | Existing | building | 1,562 | 1.3% | 0.4 | 10 | \$19 | 12% | 12.3 |
| FE-Penn Power | Adding window shade film | No shade film | Street Lighting | Cooling Central | New | building | 1,562 | 1.3% | 0.4 | 10 | \$19 | 13% | 12.3 |
| FE-Penn Power | Adding window shade screen | No shade screen | Street Lighting | Cooling Central | Existing | building | 1,562 | 1.1% | 0.01 | 10 | \$7.4 | 13% | 1.6 |
| FE-Penn Power | Adding window shade screen | No shade screen | Street Lighting | Cooling Central | New | building | 1,562 | 1.0% | 0.01 | 10 | \$7.4 | 13% | 1.6 |
| FE-Penn Power | Automated control system | Manual Controls | Street Lighting | Cooling Central | Existing | building | 1,562 | 17% | 0.2 | 15 | \$1,710 | 51% | 0.1 |
| FE-Penn Power | Automated control system | Manual Controls | Street Lighting | Cooling Central | New | building | 1,562 | 17% | 0.2 | 15 | \$1,710 | 94% | 0.1 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Street Lighting | Cooling Central | Existing | building | 1,562 | 6.2% | 0.06 | 15 | \$17,130 | 71% | 0.0 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Street Lighting | Cooling Central | New | building | 1,562 | 2.1% | 0.02 | 15 | \$16,283 | 94% | 0.0 |
| FE-Penn Power | Chiller Tuneup/Diagnostics | No tuneup | Street Lighting | Cooling Central | Existing | building | 1,562 | 8.0% | 0.08 | 10 | \$3,989 | 59% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|--|--|-----------------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Chiller Tuneup/Diagnostics | No tuneup | Street Lighting | Cooling Central | New | building | 1,562 | 8.0% | 0.08 | 10 | \$3,989 | 59% | 0.0 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Street Lighting | Cooling Central | Existing | building | 1,562 | 1.4% | 0.04 | 15 | \$12 | 20% | 3.3 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Street Lighting | Cooling Central | New | building | 1,562 | 1.4% | 0.04 | 15 | \$12 | 10% | 3.3 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Street Lighting | Cooling Central | Existing | building | 1,562 | 7.0% | 0.07 | 15 | \$6,930 | 25% | 0.0 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Street Lighting | Cooling Central | New | building | 1,562 | 7.0% | 0.07 | 15 | \$6,930 | 35% | 0.0 |
| FE-Penn Power | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | Early | ton | 4,330 | 24% | 0.4 | 15 | \$108,550 | 88% | 0.0 |
| FE-Penn Power | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | New | ton | 3,540 | 6.7% | 0.09 | 15 | \$12,927 | 88% | 0.0 |
| FE-Penn Power | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | ROB | ton | 3,540 | 6.7% | 0.09 | 15 | \$12,927 | 88% | 0.0 |
| FE-Penn Power | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | Early | ton | 6,471 | 23% | 0.6 | 15 | \$140,105 | 88% | 0.0 |
| FE-Penn Power | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | New | ton | 5,206 | 4.8% | 0.09 | 15 | \$9,336 | 88% | 0.0 |
| FE-Penn Power | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | ROB | ton | 5,206 | 4.8% | 0.09 | 15 | \$9,336 | 88% | 0.0 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | Early | ton | 52,971 | 26% | 5.0 | 15 | \$105,354 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | New | ton | 46,153 | 15% | 2.5 | 15 | \$30,530 | 88% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | ROB | ton | 46,153 | 15% | 2.5 | 15 | \$30,530 | 88% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | Early | ton | 79,336 | 23% | 6.6 | 15 | \$154,107 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | New | ton | 72,880 | 16% | 4.3 | 15 | \$27,646 | 88% | 0.3 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | ROB | ton | 79,336 | 23% | 6.6 | 15 | \$27,646 | 88% | 0.5 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | Early | ton | 131,762 | 23% | 10.9 | 15 | \$302,924 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | New | ton | 119,254 | 14% | 6.3 | 15 | \$115,432 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | ROB | ton | 131,762 | 23% | 10.9 | 15 | \$115,432 | 88% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | Early | ton | 158,114 | 23% | 13.1 | 15 | \$350,154 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | New | ton | 143,105 | 14% | 7.6 | 15 | \$120,406 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | ROB | ton | 158,114 | 23% | 13.1 | 15 | \$120,406 | 88% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | Early | ton | 35,047 | 29% | 3.8 | 15 | \$83,632 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | New | ton | 27,214 | 8.9% | 0.9 | 15 | \$40,211 | 88% | 0.0 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | ROB | ton | 35,047 | 29% | 3.8 | 15 | \$40,211 | 88% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | Early | ton | 60,220 | 35% | 7.7 | 15 | \$132,173 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | New | ton | 44,914 | 13% | 2.1 | 15 | \$39,556 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | ROB | ton | 44,914 | 13% | 2.1 | 15 | \$39,556 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | Early | ton | 100,542 | 39% | 14.4 | 15 | \$187,029 | 88% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | New | ton | 71,685 | 15% | 3.8 | 15 | \$33,554 | 88% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | ROB | ton | 100,542 | 39% | 14.4 | 15 | \$33,554 | 88% | 0.8 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | Early | ton | 17,593 | 30% | 1.9 | 15 | \$32,398 | 88% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | New | ton | 13,939 | 11% | 0.6 | 15 | \$7,188 | 88% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | ROB | ton | 17,593 | 30% | 1.9 | 15 | \$7,188 | 88% | 0.5 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Street Lighting | Cooling Central | Existing | building | 1,562 | 2.2% | 0.02 | 10 | \$10,066 | 81% | 0.0 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Street Lighting | Cooling Central | New | building | 1,562 | 2.2% | 0.02 | 10 | \$10,066 | 81% | 0.0 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Street Lighting | Cooling Central | Existing | building | 1,562 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.1 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Street Lighting | Cooling Central | New | building | 1,562 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.1 |
| FE-Penn Power | Re-Commissioning (Existing Construction) | No Re-Commissioning | Street Lighting | Cooling Central | Existing | building | 1,562 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Street Lighting | Cooling Central | Existing | building | 1,562 | 11% | 0.1 | 15 | \$3,285 | 26% | 0.0 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Street Lighting | Cooling Central | New | building | 1,562 | 0.3% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| FE-Penn Power | <65k BTU/hr 14 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Street Lighting | Cooling Unitary | Early | ton | 2,614 | 16% | 0.2 | 15 | \$1,545 | 29% | 0.2 |
| FE-Penn Power | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Street Lighting | Cooling Unitary | New | ton | 2,368 | 7.1% | 0.09 | 15 | \$339 | 29% | 0.4 |
| FE-Penn Power | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Street Lighting | Cooling Unitary | ROB | ton | 2,368 | 7.1% | 0.09 | 15 | \$339 | 29% | 0.4 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|--|-----------------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | <65k BTU/hr 15 SEER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Street Lighting | Cooling Unitary | Early | ton | 2,614 | 22% | 0.3 | 15 | \$1,821 | 30% | 0.3 |
| FE-Penn Power | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Street Lighting | Cooling Unitary | New | ton | 2,368 | 13% | 0.2 | 15 | \$714 | 30% | 0.4 |
| FE-Penn Power | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Street Lighting | Cooling Unitary | ROB | ton | 2,368 | 13% | 0.2 | 15 | \$714 | 30% | 0.4 |
| FE-Penn Power | <65k BTU/hr 16 SEER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Street Lighting | Cooling Unitary | Early | ton | 2,614 | 26% | 0.4 | 15 | \$2,098 | 31% | 0.3 |
| FE-Penn Power | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Street Lighting | Cooling Unitary | New | ton | 2,368 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.3 |
| FE-Penn Power | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Street Lighting | Cooling Unitary | ROB | ton | 2,368 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.3 |
| FE-Penn Power | >760k min 10.2 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Street Lighting | Cooling Unitary | Early | ton | 66,142 | 3.7% | 1.3 | 15 | \$68,066 | 56% | 0.0 |
| FE-Penn Power | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Street Lighting | Cooling Unitary | New | ton | 66,990 | 4.9% | 1.7 | 15 | \$6,231 | 56% | 0.4 |
| FE-Penn Power | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Street Lighting | Cooling Unitary | ROB | ton | 66,990 | 4.9% | 1.7 | 15 | \$6,231 | 56% | 0.4 |
| FE-Penn Power | 135-240k min 12 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Street Lighting | Cooling Unitary | Early | ton | 16,274 | 18% | 1.6 | 15 | \$18,135 | 79% | 0.1 |
| FE-Penn Power | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Street Lighting | Cooling Unitary | New | ton | 14,804 | 10.0% | 0.8 | 15 | \$1,948 | 79% | 0.6 |
| FE-Penn Power | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Street Lighting | Cooling Unitary | ROB | ton | 14,804 | 10.0% | 0.8 | 15 | \$1,948 | 79% | 0.6 |
| FE-Penn Power | 240k-760k min 11 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Street Lighting | Cooling Unitary | Early | ton | 43,515 | 9.0% | 2.1 | 15 | \$44,809 | 66% | 0.1 |
| FE-Penn Power | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Street Lighting | Cooling Unitary | New | ton | 43,623 | 9.3% | 2.1 | 15 | \$4,813 | 66% | 0.7 |
| FE-Penn Power | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Street Lighting | Cooling Unitary | ROB | ton | 43,623 | 9.3% | 2.1 | 15 | \$4,813 | 66% | 0.7 |
| FE-Penn Power | 65k-135k BTU/hr 12 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Street Lighting | Cooling Unitary | Early | ton | 9,594 | 17% | 0.9 | 15 | \$10,946 | 86% | 0.1 |
| FE-Penn Power | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Street Lighting | Cooling Unitary | New | ton | 8,550 | 6.7% | 0.3 | 15 | \$1,392 | 86% | 0.3 |
| FE-Penn Power | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Street Lighting | Cooling Unitary | ROB | ton | 8,550 | 6.7% | 0.3 | 15 | \$1,392 | 86% | 0.3 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Street Lighting | Cooling Unitary | Existing | building | 23,354 | 7.0% | 0.07 | 6 | \$12,283 | 82% | 0.0 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Street Lighting | Cooling Unitary | New | building | 23,354 | 7.0% | 0.07 | 6 | \$12,283 | 82% | 0.0 |
| FE-Penn Power | Adding window shade film | No shade film | Street Lighting | Cooling Unitary | Existing | building | 23,354 | 1.3% | 0.4 | 10 | \$284 | 12% | 1.2 |
| FE-Penn Power | Adding window shade film | No shade film | Street Lighting | Cooling Unitary | New | building | 23,354 | 1.3% | 0.4 | 10 | \$284 | 13% | 1.2 |
| FE-Penn Power | Adding window shade screen | No shade screen | Street Lighting | Cooling Unitary | Existing | building | 23,354 | 1.1% | 0.01 | 10 | \$110 | 12% | 0.8 |
| FE-Penn Power | Adding window shade screen | No shade screen | Street Lighting | Cooling Unitary | New | building | 23,354 | 1.1% | 0.01 | 10 | \$110 | 13% | 0.8 |
| FE-Penn Power | Automated control system | Manual Controls | Street Lighting | Cooling Unitary | Existing | building | 23,354 | 17% | 0.2 | 15 | \$25,567 | 51% | 0.1 |
| FE-Penn Power | Automated control system | Manual Controls | Street Lighting | Cooling Unitary | New | building | 23,354 | 17% | 0.2 | 15 | \$25,567 | 94% | 0.1 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Street Lighting | Cooling Unitary | Existing | building | 23,354 | 6.2% | 0.06 | 15 | \$17,130 | 71% | 0.0 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Street Lighting | Cooling Unitary | New | building | 23,354 | 2.1% | 0.02 | 15 | \$16,283 | 94% | 0.0 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Street Lighting | Cooling Unitary | Existing | building | 23,354 | 1.4% | 0.04 | 15 | \$186 | 20% | 0.9 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Street Lighting | Cooling Unitary | New | building | 23,354 | 1.4% | 0.04 | 15 | \$186 | 10% | 0.9 |
| FE-Penn Power | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Street Lighting | Cooling Unitary | Existing | building | 12,763 | 13% | 0.1 | 1 | \$122 | 73% | 0.8 |
| FE-Penn Power | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Street Lighting | Cooling Unitary | New | building | 12,763 | 13% | 0.1 | 1 | \$122 | 73% | 0.8 |
| FE-Penn Power | ECM Motors for split systems | Std Shaded Pole Motor | Street Lighting | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.4 |
| FE-Penn Power | ECM Motors for split systems | Std Shaded Pole Motor | Street Lighting | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.4 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Street Lighting | Cooling Unitary | Existing | building | 23,354 | 7.1% | 0.07 | 15 | \$103,594 | 25% | 0.0 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Street Lighting | Cooling Unitary | New | building | 23,354 | 7.1% | 0.07 | 15 | \$103,594 | 35% | 0.0 |
| FE-Penn Power | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Street Lighting | Cooling Unitary | Existing | building | 23,354 | 5.0% | 0.05 | 5 | \$225 | 59% | 1.1 |
| FE-Penn Power | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Street Lighting | Cooling Unitary | Existing | building | 23,354 | 0.5% | 0.04 | 5 | \$225 | 51% | 0.2 |
| FE-Penn Power | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Street Lighting | Cooling Unitary | New | building | 23,354 | 0.4% | 0.04 | 5 | \$135 | 51% | 0.2 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Street Lighting | Cooling Unitary | Existing | building | 23,354 | 2.2% | 0.02 | 10 | \$10,818 | 86% | 0.0 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Street Lighting | Cooling Unitary | New | building | 23,354 | 2.2% | 0.02 | 10 | \$10,818 | 86% | 0.0 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) | Street Lighting | Cooling Unitary | Existing | building | 23,354 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.6 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Street Lighting | Cooling Unitary | New | building | 23,354 | 1.7% | 0.02 | 11 | \$146 | 49% | 1.0 |
| FE-Penn Power | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Street Lighting | Cooling Unitary | Early | unit | 672 | 19% | 0.05 | 15 | \$849 | 85% | 0.1 |
| FE-Penn Power | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Street Lighting | Cooling Unitary | New | unit | 679 | 20% | 0.05 | 15 | \$356 | 85% | 0.3 |
| FE-Penn Power | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Street Lighting | Cooling Unitary | ROB | unit | 679 | 20% | 0.05 | 15 | \$356 | 85% | 0.3 |
| FE-Penn Power | Re-Commissioning (Existing Construction) | No Re-Commissioning | Street Lighting | Cooling Unitary | Existing | building | 23,354 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.1 |
| FE-Penn Power | Room AC (w/ louvered sides) | Existing efficiency Room AC in Pennsylvania (2000 Federal Standards) | Street Lighting | Cooling Unitary | Early | ton | 1,234 | 13% | 0.06 | 9 | \$348 | 82% | 0.2 |
| FE-Penn Power | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Street Lighting | Cooling Unitary | New | ton | 1,119 | 4.5% | 0.02 | 9 | \$17 | 82% | 1.5 |
| FE-Penn Power | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Street Lighting | Cooling Unitary | ROB | ton | 1,119 | 4.5% | 0.02 | 9 | \$17 | 82% | 1.5 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Street Lighting | Cooling Unitary | Existing | building | 23,354 | 11% | 0.1 | 15 | \$3,285 | 26% | 0.4 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Street Lighting | Cooling Unitary | New | building | 23,354 | 0.3% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| FE-Penn Power | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Street Lighting | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 0.9 |
| FE-Penn Power | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Street Lighting | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.1 |
| FE-Penn Power | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Street Lighting | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.1 |
| FE-Penn Power | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Street Lighting | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 0% | 0.1 |
| FE-Penn Power | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Street Lighting | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-Penn Power | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Street Lighting | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-Penn Power | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Street Lighting | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 53% | 0.2 |
| FE-Penn Power | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Street Lighting | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 53% | 0.2 |
| FE-Penn Power | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Street Lighting | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 53% | 2.3 |
| FE-Penn Power | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Street Lighting | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 53% | 1.7 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|--|--|-----------------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Street Lighting | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 53% | 2.3 |
| FE-Penn Power | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Street Lighting | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 53% | 1.7 |
| FE-Penn Power | Photocell Controls (Outdoor) | Lighting w/ No Controls | Street Lighting | Ext. Lighting | Existing | building | 684 | 28% | 0.3 | 8 | \$5,088 | 88% | 0.0 |
| FE-Penn Power | Photocell Controls (Outdoor) | Lighting w/ No Controls | Street Lighting | Ext. Lighting | New | building | 684 | 28% | 0.3 | 8 | \$5,088 | 0% | 0.0 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Street Lighting | Heat Pump | Existing | building | 2,511 | 6.9% | 0.07 | 6 | \$12,287 | 82% | 0.0 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Street Lighting | Heat Pump | New | building | 2,511 | 6.9% | 0.07 | 6 | \$12,287 | 82% | 0.0 |
| FE-Penn Power | Adding window shade film | No shade film | Street Lighting | Heat Pump | Existing | building | 2,511 | 3.9% | 0.4 | 10 | \$31 | 12% | 8.4 |
| FE-Penn Power | Adding window shade film | No shade film | Street Lighting | Heat Pump | New | building | 2,511 | 3.9% | 0.4 | 10 | \$31 | 12% | 8.4 |
| FE-Penn Power | Adding window shade screen | No shade screen | Street Lighting | Heat Pump | Existing | building | 2,511 | 0.3% | 0.01 | 10 | \$3.9 | 12% | 2.2 |
| FE-Penn Power | Adding window shade screen | No shade screen | Street Lighting | Heat Pump | New | building | 2,511 | 0.3% | 0.01 | 10 | \$3.9 | 12% | 2.2 |
| FE-Penn Power | Automated control system | Manual Controls | Street Lighting | Heat Pump | Existing | building | 2,511 | 17% | 0.2 | 15 | \$2,749 | 51% | 0.1 |
| FE-Penn Power | Automated control system | Manual Controls | Street Lighting | Heat Pump | New | building | 2,511 | 17% | 0.2 | 15 | \$2,749 | 94% | 0.1 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Street Lighting | Heat Pump | Existing | building | 2,511 | 6.2% | 0.06 | 15 | \$17,130 | 71% | 0.0 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Street Lighting | Heat Pump | New | building | 2,511 | 2.1% | 0.02 | 15 | \$16,283 | 94% | 0.0 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Street Lighting | Heat Pump | Existing | building | 2,511 | 4.0% | 0.04 | 15 | \$20 | 12% | 3.6 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Street Lighting | Heat Pump | New | building | 2,511 | 4.0% | 0.04 | 15 | \$20 | 6% | 3.6 |
| FE-Penn Power | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Street Lighting | Heat Pump | Early | heat pump | 2,268 | 12% | 0.02 | 15 | \$4,070 | 83% | 0.0 |
| FE-Penn Power | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Street Lighting | Heat Pump | New | heat pump | 2,162 | 7.8% | 0.01 | 15 | \$1,097 | 83% | 0.1 |
| FE-Penn Power | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Street Lighting | Heat Pump | ROB | heat pump | 2,162 | 7.8% | 0.01 | 15 | \$1,097 | 83% | 0.1 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Street Lighting | Heat Pump | Existing | building | 2,511 | 7.0% | 0.07 | 15 | \$11,137 | 25% | 0.0 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Street Lighting | Heat Pump | New | building | 2,511 | 7.0% | 0.07 | 15 | \$11,137 | 35% | 0.0 |
| FE-Penn Power | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Street Lighting | Heat Pump | Early | heat pump | 23,875 | 16% | 0.3 | 15 | \$91,117 | 19% | 0.0 |
| FE-Penn Power | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Street Lighting | Heat Pump | New | heat pump | 22,983 | 13% | 0.3 | 15 | \$33,927 | 19% | 0.0 |
| FE-Penn Power | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Street Lighting | Heat Pump | ROB | heat pump | 22,983 | 13% | 0.3 | 15 | \$33,927 | 19% | 0.0 |
| FE-Penn Power | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Street Lighting | Heat Pump | Early | heat pump | 23,875 | 16% | 0.3 | 15 | \$58,356 | 19% | 0.0 |
| FE-Penn Power | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Street Lighting | Heat Pump | New | heat pump | 22,983 | 13% | 0.3 | 15 | \$1,167 | 19% | 1.2 |
| FE-Penn Power | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Street Lighting | Heat Pump | ROB | heat pump | 22,983 | 13% | 0.3 | 15 | \$1,167 | 19% | 1.2 |
| FE-Penn Power | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Street Lighting | Heat Pump | Early | heat pump | 6,164 | 17% | 0.09 | 12 | \$4,298 | 81% | 0.1 |
| FE-Penn Power | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Street Lighting | Heat Pump | Early | heat pump | 6,164 | 25% | 0.1 | 12 | \$5,883 | 81% | 0.1 |
| FE-Penn Power | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Street Lighting | Heat Pump | New | heat pump | 5,870 | 12% | 0.06 | 12 | \$852 | 81% | 0.3 |
| FE-Penn Power | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Street Lighting | Heat Pump | New | heat pump | 5,870 | 22% | 0.1 | 12 | \$2,437 | 81% | 0.2 |
| FE-Penn Power | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Street Lighting | Heat Pump | ROB | heat pump | 5,870 | 12% | 0.06 | 12 | \$852 | 81% | 0.3 |
| FE-Penn Power | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Street Lighting | Heat Pump | ROB | heat pump | 5,870 | 22% | 0.1 | 12 | \$2,437 | 81% | 0.2 |
| FE-Penn Power | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Street Lighting | Heat Pump | Existing | building | 2,511 | 5.0% | 0.01 | 5 | \$90 | 51% | 0.3 |
| FE-Penn Power | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Street Lighting | Heat Pump | New | building | 2,511 | 5.0% | 0.01 | 5 | \$90 | 51% | 0.3 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Street Lighting | Heat Pump | Existing | building | 2,511 | 2.2% | 0.02 | 10 | \$9,632 | 81% | 0.0 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Street Lighting | Heat Pump | New | building | 2,511 | 2.2% | 0.02 | 10 | \$9,632 | 81% | 0.0 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Street Lighting | Heat Pump | Existing | building | 2,511 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.1 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Street Lighting | Heat Pump | New | building | 2,511 | 2.1% | 0.02 | 11 | \$146 | 49% | 0.2 |
| FE-Penn Power | Re-Commissioning (Existing Construction) | No Re-Commissioning | Street Lighting | Heat Pump | Existing | building | 2,511 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Street Lighting | Heat Pump | Existing | building | 2,511 | 11% | 0.1 | 15 | \$3,285 | 26% | 0.1 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Street Lighting | Heat Pump | New | building | 2,511 | 0.3% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| FE-Penn Power | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Street Lighting | Heat Pump | Early | heat pump | 9,861 | 34% | 0.3 | 15 | \$35,347 | 28% | 0.0 |
| FE-Penn Power | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Street Lighting | Heat Pump | New | heat pump | 9,355 | 31% | 0.2 | 15 | \$15,739 | 28% | 0.1 |
| FE-Penn Power | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Street Lighting | Heat Pump | ROB | heat pump | 9,355 | 31% | 0.2 | 15 | \$15,739 | 28% | 0.1 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 299 | 9.6% | 0.01 | 13 | \$850 | 39% | 0.0 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Street Lighting | High Bay Lighting | Early | Fixture | 299 | 9.5% | 0.01 | 13 | \$850 | 28% | 0.0 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 461 | 41% | 0.04 | 13 | \$850 | 36% | 0.1 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | New | Fixture | 227 | 9.6% | 0.00 | 13 | \$372 | 39% | 0.0 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Street Lighting | High Bay Lighting | New | Fixture | 211 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | New | Fixture | 350 | 41% | 0.03 | 13 | \$397 | 36% | 0.2 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 299 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.0 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 278 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 461 | 41% | 0.04 | 13 | \$397 | 36% | 0.3 |
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 580 | 19% | 0.02 | 13 | \$851 | 38% | 0.1 |
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Street Lighting | High Bay Lighting | Early | Fixture | 587 | 20% | 0.02 | 13 | \$851 | 38% | 0.1 |
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 1,708 | 73% | 0.2 | 13 | \$851 | 38% | 0.8 |
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | New | Fixture | 441 | 19% | 0.02 | 13 | \$372 | 38% | 0.1 |
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | New | Fixture | 1,298 | 73% | 0.2 | 13 | \$383 | 38% | 1.3 |
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 580 | 19% | 0.02 | 13 | \$372 | 38% | 0.2 |
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 1,708 | 73% | 0.2 | 13 | \$383 | 38% | 1.7 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|--|---|-----------------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 580 | 25% | 0.03 | 13 | \$554 | 29% | 0.1 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Street Lighting | High Bay Lighting | Early | Fixture | 569 | 23% | 0.03 | 13 | \$554 | 28% | 0.1 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 1,708 | 74% | 0.2 | 13 | \$554 | 36% | 1.2 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | New | Fixture | 441 | 25% | 0.02 | 13 | \$75 | 29% | 0.8 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | New | Fixture | 1,298 | 74% | 0.2 | 13 | \$86 | 36% | 5.9 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 580 | 25% | 0.03 | 13 | \$75 | 29% | 1.0 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 1,708 | 74% | 0.2 | 13 | \$86 | 36% | 7.8 |
| FE-Penn Power | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Street Lighting | High Bay Lighting | Early | Fixture | 151 | 0.2% | 0.00 | 13 | \$835 | 38% | 0.0 |
| FE-Penn Power | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 326 | 54% | 0.03 | 13 | \$835 | 38% | 0.1 |
| FE-Penn Power | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | New | Fixture | 248 | 54% | 0.03 | 13 | \$382 | 38% | 0.2 |
| FE-Penn Power | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 326 | 54% | 0.03 | 13 | \$382 | 38% | 0.2 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 739 | 18% | 0.03 | 13 | \$487 | 25% | 0.1 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Street Lighting | High Bay Lighting | Early | Fixture | 773 | 22% | 0.03 | 13 | \$487 | 28% | 0.2 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 1,708 | 65% | 0.2 | 13 | \$487 | 36% | 1.2 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | New | Fixture | 562 | 18% | 0.02 | 13 | \$16 | 25% | 3.3 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | New | Fixture | 1,298 | 65% | 0.2 | 13 | \$18 | 36% | 24.0 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 739 | 18% | 0.03 | 13 | \$16 | 25% | 4.4 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 1,708 | 65% | 0.2 | 13 | \$18 | 36% | 31.5 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 739 | 1.5% | 0.00 | 13 | \$557 | 19% | 0.0 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Street Lighting | High Bay Lighting | Early | Fixture | 761 | 4.3% | 0.01 | 13 | \$557 | 19% | 0.0 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 1,708 | 57% | 0.2 | 13 | \$557 | 19% | 0.9 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | New | Fixture | 562 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | New | Fixture | 1,298 | 57% | 0.1 | 13 | \$88 | 19% | 4.4 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 739 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 1,708 | 57% | 0.2 | 13 | \$88 | 19% | 5.8 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 314 | 29% | 0.01 | 13 | \$492 | 71% | 0.1 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 262 | 15% | 0.01 | 13 | \$492 | 95% | 0.0 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 390 | 43% | 0.02 | 13 | \$492 | 95% | 0.2 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 361 | 38% | 0.02 | 13 | \$492 | 95% | 0.1 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | New | Fixture | 199 | 15% | 0.00 | 13 | \$25 | 95% | 0.6 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | New | Fixture | 296 | 43% | 0.02 | 13 | \$51 | 95% | 1.2 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 262 | 15% | 0.01 | 13 | \$25 | 95% | 0.8 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 390 | 43% | 0.02 | 13 | \$51 | 95% | 1.6 |
| FE-Penn Power | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Street Lighting | High Bay Lighting | Early | lamp | 87 | 16% | 0.00 | 12 | \$7.7 | 99% | 0.9 |
| FE-Penn Power | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Street Lighting | High Bay Lighting | New | lamp | 52 | 13% | 0.00 | 12 | \$1.6 | 91% | 2.1 |
| FE-Penn Power | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Street Lighting | High Bay Lighting | ROB | lamp | 84 | 13% | 0.00 | 12 | \$1.6 | 91% | 3.4 |
| FE-Penn Power | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 1,748 | 23% | 0.08 | 13 | \$613 | 5% | 0.3 |
| FE-Penn Power | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Street Lighting | High Bay Lighting | Early | Fixture | 1,373 | 1.6% | 0.00 | 13 | \$613 | 28% | 0.0 |
| FE-Penn Power | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 3,417 | 60% | 0.4 | 13 | \$613 | 18% | 1.8 |
| FE-Penn Power | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | New | Fixture | 1,329 | 23% | 0.06 | 13 | \$96 | 5% | 1.6 |
| FE-Penn Power | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 1,748 | 23% | 0.08 | 13 | \$96 | 5% | 2.2 |
| FE-Penn Power | Auto Off Time Switch | Lighting w/ No Controls | Street Lighting | High Bay Lighting | Existing | building | 1,182 | 24% | 0.2 | 8 | \$1,034 | 13% | 0.2 |
| FE-Penn Power | Auto Off Time Switch | Lighting w/ No Controls | Street Lighting | High Bay Lighting | New | building | 1,182 | 6.9% | 0.07 | 8 | \$1,034 | 0% | 0.1 |
| FE-Penn Power | Central Lighting Control System | Lighting w/ No Controls | Street Lighting | High Bay Lighting | Existing | building | 1,182 | 38% | 0.4 | 8 | \$1,034 | 13% | 0.3 |
| FE-Penn Power | Central Lighting Control System | Lighting w/ No Controls | Street Lighting | High Bay Lighting | New | building | 1,182 | 14% | 0.1 | 8 | \$1,034 | 13% | 0.1 |
| FE-Penn Power | (New Construction) HE Lighting Fixtures/Design 10% better than code | Lighting Meeting Code Required LPD | Street Lighting | High Bay Lighting | New | building | 1,182 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.0 |
| FE-Penn Power | (New Construction) HE Lighting Fixtures/Design 15% better than code | Lighting Meeting Code Required LPD | Street Lighting | High Bay Lighting | New | building | 1,182 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |
| FE-Penn Power | (New Construction) HE Lighting Fixtures/Design 30% better than code | Lighting Meeting Code Required LPD | Street Lighting | High Bay Lighting | New | building | 1,182 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| FE-Penn Power | Indoor Daylight Sensors | Lighting w/ No Controls | Street Lighting | High Bay Lighting | Existing | building | 1,182 | 28% | 0.3 | 8 | \$5,088 | 13% | 0.0 |
| FE-Penn Power | Indoor Daylight Sensors | Lighting w/ No Controls | Street Lighting | High Bay Lighting | New | building | 1,182 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| FE-Penn Power | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 1,748 | 92% | 0.3 | 13 | \$1,916 | 95% | 0.4 |
| FE-Penn Power | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 3,417 | 96% | 0.6 | 13 | \$1,916 | 95% | 0.9 |
| FE-Penn Power | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | New | Fixture | 1,329 | 92% | 0.2 | 13 | \$1,468 | 95% | 0.4 |
| FE-Penn Power | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | New | Fixture | 2,597 | 96% | 0.5 | 13 | \$1,149 | 95% | 1.1 |
| FE-Penn Power | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 1,748 | 92% | 0.3 | 13 | \$1,468 | 95% | 0.6 |
| FE-Penn Power | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 3,417 | 96% | 0.6 | 13 | \$1,149 | 95% | 1.5 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 580 | 67% | 0.07 | 13 | \$960 | 95% | 0.2 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 1,708 | 89% | 0.3 | 13 | \$960 | 95% | 0.8 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 469 | 59% | 0.05 | 13 | \$960 | 95% | 0.2 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | New | Fixture | 441 | 67% | 0.06 | 13 | \$480 | 95% | 0.3 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | New | Fixture | 1,298 | 89% | 0.2 | 13 | \$491 | 95% | 1.2 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Street Lighting | High Bay Lighting | New | Fixture | 356 | 59% | 0.04 | 13 | \$406 | 95% | 0.3 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 580 | 67% | 0.07 | 13 | \$480 | 95% | 0.4 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 1,708 | 89% | 0.3 | 13 | \$491 | 95% | 1.6 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 469 | 59% | 0.05 | 13 | \$406 | 95% | 0.4 |
| FE-Penn Power | Occupancy Sensor | Lighting w/ No Controls | Street Lighting | High Bay Lighting | Existing | building | 1,182 | 24% | 0.2 | 8 | \$1,558 | 11% | 0.1 |
| FE-Penn Power | Occupancy Sensor | Lighting w/ No Controls | Street Lighting | High Bay Lighting | New | building | 1,182 | 6.9% | 0.07 | 8 | \$1,558 | 0% | 0.0 |
| FE-Penn Power | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Street Lighting | High Bay Lighting | Existing | building | 1,182 | 28% | 0.3 | 8 | \$5,088 | 11% | 0.0 |
| FE-Penn Power | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Street Lighting | High Bay Lighting | New | building | 1,182 | 4.0% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| FE-Penn Power | Time Clock Control | Lighting w/ No Controls | Street Lighting | High Bay Lighting | Existing | building | 1,182 | 28% | 0.3 | 8 | \$1,034 | 13% | 0.2 |
| FE-Penn Power | Time Clock Control | Lighting w/ No Controls | Street Lighting | High Bay Lighting | New | building | 1,182 | 4.1% | 0.04 | 8 | \$1,034 | 0% | 0.0 |
| FE-Penn Power | Auto Off Time Switch | Lighting w/ No Controls | Street Lighting | Lin. Fluor. Lighting | Existing | building | 22,257 | 24% | 0.2 | 8 | \$1,034 | 13% | 1.6 |
| FE-Penn Power | Auto Off Time Switch | Lighting w/ No Controls | Street Lighting | Lin. Fluor. Lighting | New | building | 22,257 | 7.0% | 0.07 | 8 | \$1,034 | 0% | 0.4 |
| FE-Penn Power | Central Lighting Control System | Lighting w/ No Controls | Street Lighting | Lin. Fluor. Lighting | Existing | building | 22,257 | 38% | 0.4 | 8 | \$1,034 | 12% | 2.5 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|--|-----------------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Central Lighting Control System | Lighting w/ No Controls | Street Lighting | Lin. Fluor. Lighting | New | building | 22,257 | 14% | 0.1 | 8 | \$1,034 | 12% | 0.9 |
| FE-Penn Power | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Street Lighting | Lin. Fluor. Lighting | New | building | 22,257 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.0 |
| FE-Penn Power | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Street Lighting | Lin. Fluor. Lighting | New | building | 22,257 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |
| FE-Penn Power | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Street Lighting | Lin. Fluor. Lighting | New | building | 22,257 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| FE-Penn Power | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Street Lighting | Lin. Fluor. Lighting | Early | Lamp | 175 | 38% | 0.01 | 12 | \$7.3 | 94% | 4.5 |
| FE-Penn Power | Indoor Daylight Sensors | Lighting w/ No Controls | Street Lighting | Lin. Fluor. Lighting | Existing | building | 22,257 | 28% | 0.3 | 8 | \$5,088 | 13% | 0.4 |
| FE-Penn Power | Indoor Daylight Sensors | Lighting w/ No Controls | Street Lighting | Lin. Fluor. Lighting | New | building | 22,257 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.1 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | Early | Lamp | 38 | 19% | 0.00 | 15 | \$35 | 94% | 0.1 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 40W T12 Lamp, Magnetic Ballast | Street Lighting | Lin. Fluor. Lighting | Early | Lamp | 83 | 63% | 0.01 | 15 | \$35 | 94% | 0.8 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | Early | Lamp | 46 | 34% | 0.00 | 15 | \$35 | 94% | 0.3 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | Early | Lamp | 45 | 32% | 0.00 | 15 | \$35 | 94% | 0.2 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | New | Lamp | 29 | 19% | 0.00 | 15 | \$28 | 94% | 0.1 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | New | Lamp | 34 | 32% | 0.00 | 15 | \$29 | 94% | 0.2 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | New | Lamp | 35 | 34% | 0.00 | 15 | \$22 | 94% | 0.3 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | New | Lamp | 34 | 32% | 0.00 | 15 | \$29 | 94% | 0.2 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | ROB | Lamp | 38 | 19% | 0.00 | 15 | \$28 | 94% | 0.1 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | ROB | Lamp | 45 | 32% | 0.00 | 15 | \$29 | 94% | 0.3 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | ROB | Lamp | 46 | 34% | 0.00 | 15 | \$22 | 94% | 0.4 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | ROB | Lamp | 45 | 32% | 0.00 | 15 | \$29 | 94% | 0.3 |
| FE-Penn Power | Occupancy Sensor | Lighting w/ No Controls | Street Lighting | Lin. Fluor. Lighting | Existing | building | 22,257 | 24% | 0.2 | 8 | \$1,558 | 12% | 1.0 |
| FE-Penn Power | Occupancy Sensor | Lighting w/ No Controls | Street Lighting | Lin. Fluor. Lighting | New | building | 22,257 | 7.0% | 0.07 | 8 | \$1,558 | 0% | 0.3 |
| FE-Penn Power | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Street Lighting | Lin. Fluor. Lighting | Existing | building | 22,257 | 28% | 0.3 | 8 | \$5,088 | 11% | 0.4 |
| FE-Penn Power | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Street Lighting | Lin. Fluor. Lighting | New | building | 22,257 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.1 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 40W T12 w/ Magnetic Ballast | Street Lighting | Lin. Fluor. Lighting | Early | Lamp | 175 | 54% | 0.02 | 12 | \$9.1 | 94% | 5.2 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | Early | Lamp | 112 | 28% | 0.01 | 12 | \$9.1 | 24% | 1.7 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | Early | Lamp | 108 | 26% | 0.01 | 12 | \$9.1 | 94% | 1.5 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | New | Lamp | 82 | 26% | 0.00 | 12 | \$2.5 | 94% | 4.2 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | New | Lamp | 82 | 26% | 0.00 | 12 | \$2.5 | 94% | 4.2 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | New | Lamp | 85 | 28% | 0.00 | 12 | \$2.5 | 24% | 4.7 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | New | Lamp | 82 | 26% | 0.00 | 12 | \$2.5 | 94% | 4.2 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | ROB | Lamp | 108 | 26% | 0.01 | 12 | \$2.5 | 94% | 5.6 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | ROB | Lamp | 108 | 26% | 0.01 | 12 | \$2.5 | 94% | 5.6 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | ROB | Lamp | 112 | 28% | 0.01 | 12 | \$2.5 | 24% | 6.2 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | ROB | Lamp | 108 | 26% | 0.01 | 12 | \$2.5 | 94% | 5.6 |
| FE-Penn Power | T8 Lamp (any length) Electronic Ballast | Standard T12 lamp (any length) | Street Lighting | Lin. Fluor. Lighting | Early | Lamp | 206 | 42% | 0.02 | 12 | \$14 | 94% | 3.1 |
| FE-Penn Power | Time Clock Control | Lighting w/ No Controls | Street Lighting | Lin. Fluor. Lighting | Existing | building | 22,257 | 28% | 0.3 | 8 | \$1,034 | 14% | 1.8 |
| FE-Penn Power | Time Clock Control | Lighting w/ No Controls | Street Lighting | Lin. Fluor. Lighting | New | building | 22,257 | 4.1% | 0.04 | 8 | \$1,034 | 0% | 0.3 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | Early | motor | 3,449 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | Early | motor | 3,449 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | Early | motor | 3,449 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | Early | motor | 3,449 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | Early | motor | 3,449 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | New | motor | 3,344 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | New | motor | 3,344 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | New | motor | 3,344 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | New | motor | 3,344 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | ROB | motor | 3,344 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | ROB | motor | 3,344 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | ROB | motor | 3,344 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | ROB | motor | 3,344 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-Penn Power | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | ROB | motor | 3,344 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-Penn Power | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | Early | motor | 5,086 | 3.1% | 0.02 | 15 | \$402 | 76% | 0.2 |
| FE-Penn Power | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | Early | motor | 5,086 | 3.0% | 0.02 | 15 | \$402 | 76% | 0.2 |
| FE-Penn Power | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | Early | motor | 5,086 | 3.0% | 0.02 | 15 | \$402 | 76% | 0.2 |
| FE-Penn Power | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | Early | motor | 5,086 | 3.0% | 0.02 | 15 | \$402 | 76% | 0.2 |
| FE-Penn Power | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | Early | motor | 5,086 | 3.0% | 0.02 | 15 | \$402 | 76% | 0.2 |
| FE-Penn Power | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | New | motor | 4,958 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.2 |
| FE-Penn Power | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | New | motor | 4,958 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.2 |
| FE-Penn Power | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | New | motor | 4,958 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.2 |
| FE-Penn Power | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | New | motor | 4,958 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.2 |
| FE-Penn Power | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | New | motor | 4,958 | 0.5% | 0.00 | 15 | \$60 | 76% | 0.2 |
| FE-Penn Power | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | ROB | motor | 4,958 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|--|-----------------|---------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | Early | motor | 24,141 | 2.9% | 0.09 | 15 | \$802 | 83% | 0.4 |
| FE-Penn Power | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | Early | motor | 24,141 | 2.9% | 0.09 | 15 | \$802 | 83% | 0.4 |
| FE-Penn Power | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | Early | motor | 24,141 | 2.9% | 0.09 | 15 | \$802 | 83% | 0.4 |
| FE-Penn Power | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | New | motor | 23,564 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.5 |
| FE-Penn Power | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | New | motor | 23,564 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.5 |
| FE-Penn Power | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | New | motor | 23,564 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.5 |
| FE-Penn Power | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | New | motor | 23,564 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.5 |
| FE-Penn Power | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | ROB | motor | 23,564 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.5 |
| FE-Penn Power | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | ROB | motor | 23,564 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.5 |
| FE-Penn Power | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | ROB | motor | 23,564 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.5 |
| FE-Penn Power | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | ROB | motor | 23,564 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.5 |
| FE-Penn Power | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | ROB | motor | 23,564 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.5 |
| FE-Penn Power | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | Early | motor | 227,590 | 1.3% | 0.4 | 15 | \$3,955 | 61% | 0.4 |
| FE-Penn Power | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | Early | motor | 227,590 | 1.3% | 0.4 | 15 | \$3,955 | 61% | 0.4 |
| FE-Penn Power | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | Early | motor | 227,590 | 1.3% | 0.4 | 15 | \$3,955 | 61% | 0.4 |
| FE-Penn Power | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | Early | motor | 227,590 | 1.3% | 0.4 | 15 | \$3,955 | 61% | 0.4 |
| FE-Penn Power | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | New | motor | 225,714 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.1 |
| FE-Penn Power | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | New | motor | 225,714 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.1 |
| FE-Penn Power | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | New | motor | 225,714 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.1 |
| FE-Penn Power | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | New | motor | 225,714 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.1 |
| FE-Penn Power | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | ROB | motor | 225,714 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.1 |
| FE-Penn Power | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | ROB | motor | 225,714 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.1 |
| FE-Penn Power | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | ROB | motor | 225,714 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.1 |
| FE-Penn Power | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | ROB | motor | 225,714 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.1 |
| FE-Penn Power | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | ROB | motor | 225,714 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.1 |
| FE-Penn Power | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | ROB | motor | 225,714 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.1 |
| FE-Penn Power | Downsizing motor during retrofit | Larger hp standard motor | Street Lighting | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 17.9 |
| FE-Penn Power | Downsizing motor during retrofit | Larger hp standard motor | Street Lighting | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 18.2 |
| FE-Penn Power | Downsizing motor during retrofit | Larger hp standard motor | Street Lighting | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 18.5 |
| FE-Penn Power | Downsizing motor during retrofit | Larger hp standard motor | Street Lighting | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 18.7 |
| FE-Penn Power | Downsizing motor during retrofit | Larger hp standard motor | Street Lighting | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 19.2 |
| FE-Penn Power | Downsizing motor during retrofit | Larger hp standard motor | Street Lighting | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 17.7 |
| FE-Penn Power | Downsizing motor during retrofit | Larger hp standard motor | Street Lighting | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 18.1 |
| FE-Penn Power | Downsizing motor during retrofit | Larger hp standard motor | Street Lighting | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 18.6 |
| FE-Penn Power | Downsizing motor during retrofit | Larger hp standard motor | Street Lighting | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 18.9 |
| FE-Penn Power | Downsizing motor during retrofit | Larger hp standard motor | Street Lighting | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 19.1 |
| FE-Penn Power | Escalator Motor Controller | Constant power control | Street Lighting | Motors | New | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 45% | 4.8 |
| FE-Penn Power | Escalator Motor Controller | Constant power control | Street Lighting | Motors | ROB | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 45% | 4.8 |
| FE-Penn Power | Variable Speed Drive Control, 15HP | Existing Motors w/out VSD Drive | Street Lighting | Motors | Early | motor | 47,127 | 70% | 4.4 | 15 | \$731 | 86% | 23.1 |
| FE-Penn Power | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Street Lighting | Motors | New | motor | 46,114 | 71% | 4.4 | 15 | \$731 | 86% | 23.1 |
| FE-Penn Power | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Street Lighting | Motors | ROB | motor | 46,114 | 71% | 4.4 | 15 | \$731 | 86% | 23.1 |
| FE-Penn Power | Variable Speed Drive Control, 40HP | Existing Motors w/out VSD Drive | Street Lighting | Motors | Early | motor | 122,970 | 71% | 11.5 | 15 | \$4,666 | 86% | 9.5 |
| FE-Penn Power | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Street Lighting | Motors | New | motor | 121,532 | 72% | 11.5 | 15 | \$4,666 | 86% | 9.5 |
| FE-Penn Power | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Street Lighting | Motors | ROB | motor | 121,532 | 72% | 11.5 | 15 | \$4,666 | 86% | 9.5 |
| FE-Penn Power | Variable Speed Drive Control, 5HP | Existing Motors w/out VFD Drive | Street Lighting | Motors | Early | motor | 16,337 | 70% | 1.5 | 15 | \$2,243 | 86% | 2.6 |
| FE-Penn Power | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Street Lighting | Motors | New | motor | 15,972 | 72% | 1.5 | 15 | \$2,243 | 86% | 2.6 |
| FE-Penn Power | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Street Lighting | Motors | ROB | motor | 15,972 | 72% | 1.5 | 15 | \$2,243 | 86% | 2.6 |
| FE-Penn Power | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Street Lighting | Motors | Early | motor | 4,943 | 23% | 0.1 | 15 | \$268 | 13% | 2.1 |
| FE-Penn Power | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Street Lighting | Motors | New | motor | 4,943 | 23% | 0.1 | 15 | \$268 | 13% | 2.1 |
| FE-Penn Power | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Street Lighting | Motors | ROB | motor | 4,943 | 23% | 0.1 | 15 | \$268 | 13% | 2.1 |
| FE-Penn Power | VFD on Chilled Water Pump | Motor w/out VFD Drive | Street Lighting | Motors | Early | motor | 15,992 | 54% | 1.1 | 15 | \$2,903 | 86% | 1.5 |
| FE-Penn Power | VFD on Chilled Water Pump | Motor w/out VFD Drive | Street Lighting | Motors | New | motor | 15,693 | 55% | 1.1 | 15 | \$2,843 | 86% | 1.6 |
| FE-Penn Power | VFD on Chilled Water Pump | Motor w/out VFD Drive | Street Lighting | Motors | ROB | motor | 15,693 | 55% | 1.1 | 15 | \$2,843 | 86% | 1.6 |
| FE-Penn Power | VFD on Condenser Water Pump | Motor w/out VFD Drive | Street Lighting | Motors | Early | motor | 15,905 | 32% | 0.7 | 15 | \$2,903 | 86% | 0.9 |
| FE-Penn Power | VFD on Condenser Water Pump | Motor w/out VFD Drive | Street Lighting | Motors | New | motor | 15,607 | 33% | 0.7 | 15 | \$2,843 | 86% | 0.9 |
| FE-Penn Power | VFD on Condenser Water Pump | Motor w/out VFD Drive | Street Lighting | Motors | ROB | motor | 15,607 | 33% | 0.7 | 15 | \$2,843 | 86% | 0.9 |
| FE-Penn Power | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Street Lighting | Motors | Early | motor | 29,846 | 56% | 2.2 | 15 | \$2,903 | 86% | 2.9 |
| FE-Penn Power | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Street Lighting | Motors | New | motor | 29,288 | 57% | 2.2 | 15 | \$2,843 | 86% | 3.0 |
| FE-Penn Power | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Street Lighting | Motors | ROB | motor | 29,288 | 57% | 2.2 | 15 | \$2,843 | 86% | 3.0 |
| FE-Penn Power | VFD on HVAC Fan | Motor w/out VFD | Street Lighting | Motors | Early | motor | 15,992 | 70% | 1.5 | 15 | \$2,903 | 86% | 2.0 |
| FE-Penn Power | VFD on HVAC Fan | Motor w/out VFD | Street Lighting | Motors | New | motor | 15,693 | 72% | 1.5 | 15 | \$2,843 | 86% | 2.0 |
| FE-Penn Power | VFD on HVAC Fan | Motor w/out VFD | Street Lighting | Motors | ROB | motor | 15,693 | 72% | 1.5 | 15 | \$2,843 | 86% | 2.0 |
| FE-Penn Power | Variable Speed Drives on Process Equipment | Constant speed control | Street Lighting | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 9.2 |
| FE-Penn Power | Variable Speed Drives on Process Equipment | Constant speed control | Street Lighting | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 9.2 |
| FE-Penn Power | Auto Off Time Switch | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | Existing | building | 6,608 | 24% | 0.2 | 8 | \$1,034 | 13% | 0.5 |
| FE-Penn Power | Auto Off Time Switch | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | New | building | 6,608 | 7.0% | 0.07 | 8 | \$1,034 | 0% | 0.2 |
| FE-Penn Power | Central Lighting Control System | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | Existing | building | 6,608 | 38% | 0.4 | 8 | \$1,034 | 13% | 0.9 |
| FE-Penn Power | Central Lighting Control System | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | New | building | 6,608 | 14% | 0.1 | 8 | \$1,034 | 13% | 0.3 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 40W Incandescent Bulb | Street Lighting | Other Int. Lighting | Early | lamp | 87 | 87% | 0.01 | 15 | \$30 | 14% | 1.4 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | Early | lamp | 62 | 81% | 0.01 | 15 | \$30 | 11% | 1.0 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | New | lamp | 47 | 81% | 0.01 | 15 | \$21 | 14% | 1.0 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | New | lamp | 47 | 81% | 0.01 | 15 | \$23 | 14% | 1.0 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | New | lamp | 47 | 81% | 0.01 | 15 | \$22 | 11% | 1.0 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | ROB | lamp | 62 | 81% | 0.01 | 15 | \$21 | 14% | 1.4 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | ROB | lamp | 62 | 81% | 0.01 | 15 | \$23 | 14% | 1.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|---|-----------------|---------------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | ROB | lamp | 62 | 81% | 0.01 | 15 | \$22 | 11% | 1.3 |
| FE-Penn Power | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Street Lighting | Other Int. Lighting | Early | lamp | 87 | 75% | 0.01 | 7 | \$73 | 24% | 0.3 |
| FE-Penn Power | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Street Lighting | Other Int. Lighting | New | fixture | 95 | 65% | 0.01 | 13 | \$29 | 28% | 1.1 |
| FE-Penn Power | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | New | lamp | 47 | 65% | 0.01 | 7 | \$29 | 28% | 0.4 |
| FE-Penn Power | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Street Lighting | Other Int. Lighting | ROB | fixture | 125 | 65% | 0.01 | 13 | \$29 | 24% | 1.5 |
| FE-Penn Power | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | ROB | lamp | 62 | 65% | 0.01 | 7 | \$29 | 24% | 0.5 |
| FE-Penn Power | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Street Lighting | Other Int. Lighting | Early | lamp | 87 | 75% | 0.01 | 7 | \$3.2 | 24% | 6.9 |
| FE-Penn Power | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | New | lamp | 47 | 65% | 0.01 | 7 | \$1.8 | 24% | 5.9 |
| FE-Penn Power | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | ROB | lamp | 62 | 65% | 0.01 | 7 | \$1.8 | 24% | 7.7 |
| FE-Penn Power | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | ROB | lamp | 62 | 65% | 0.01 | 7 | \$1.8 | 24% | 7.7 |
| FE-Penn Power | Exit Sign Retrofit: CFL replacing Incandescent | One 23W Single Sided Incandescent Exit Sign | Street Lighting | Other Int. Lighting | Early | exit sign | 139 | 42% | 0.01 | 15 | \$48 | 22% | 0.6 |
| FE-Penn Power | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Street Lighting | Other Int. Lighting | New | building | 6,608 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.0 |
| FE-Penn Power | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Street Lighting | Other Int. Lighting | New | building | 6,608 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |
| FE-Penn Power | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Street Lighting | Other Int. Lighting | New | building | 6,608 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| FE-Penn Power | Indoor Daylight Sensors | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | Existing | building | 6,608 | 28% | 0.3 | 8 | \$5,088 | 13% | 0.1 |
| FE-Penn Power | Indoor Daylight Sensors | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | New | building | 6,608 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| FE-Penn Power | LED Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Street Lighting | Other Int. Lighting | Early | sign | 153 | 87% | 0.02 | 15 | \$48 | 16% | 1.5 |
| FE-Penn Power | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Street Lighting | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 1.6 |
| FE-Penn Power | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Street Lighting | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 1.6 |
| FE-Penn Power | LED Task Lighting/Screw-In | 1 15W CFL bulb | Street Lighting | Other Int. Lighting | Early | lamp | 22 | 33% | 0.00 | 15 | \$9.6 | 24% | 0.4 |
| FE-Penn Power | LED Task Lighting/Screw-In | 1 60W Incandescent Bulb | Street Lighting | Other Int. Lighting | Early | lamp | 89 | 83% | 0.01 | 15 | \$9.6 | 24% | 4.4 |
| FE-Penn Power | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Street Lighting | Other Int. Lighting | New | lamp | 49 | 77% | 0.01 | 15 | \$7.9 | 24% | 2.7 |
| FE-Penn Power | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Street Lighting | Other Int. Lighting | New | lamp | 49 | 77% | 0.01 | 15 | \$7.9 | 24% | 2.7 |
| FE-Penn Power | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Street Lighting | Other Int. Lighting | ROB | lamp | 64 | 77% | 0.01 | 15 | \$7.9 | 24% | 3.5 |
| FE-Penn Power | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Street Lighting | Other Int. Lighting | ROB | lamp | 64 | 77% | 0.01 | 15 | \$7.9 | 24% | 3.5 |
| FE-Penn Power | Occupancy Sensor | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | Existing | building | 6,608 | 24% | 0.2 | 8 | \$1,558 | 11% | 0.4 |
| FE-Penn Power | Occupancy Sensor | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | New | building | 6,608 | 7.0% | 0.07 | 8 | \$1,558 | 0% | 0.1 |
| FE-Penn Power | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | Existing | building | 6,608 | 28% | 0.3 | 8 | \$5,088 | 11% | 0.1 |
| FE-Penn Power | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | New | building | 6,608 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| FE-Penn Power | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Street Lighting | Other Int. Lighting | Early | exit sign | 139 | 100% | 0.02 | 15 | \$173 | 26% | 0.4 |
| FE-Penn Power | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Street Lighting | Other Int. Lighting | New | exit sign | 80 | 100% | 0.01 | 15 | \$148 | 31% | 0.3 |
| FE-Penn Power | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Street Lighting | Other Int. Lighting | ROB | exit sign | 80 | 100% | 0.01 | 15 | \$148 | 26% | 0.3 |
| FE-Penn Power | Time Clock Control | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | Existing | building | 6,608 | 28% | 0.3 | 8 | \$1,034 | 13% | 0.6 |
| FE-Penn Power | Time Clock Control | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | New | building | 6,608 | 4.1% | 0.04 | 8 | \$1,034 | 0% | 0.1 |
| FE-Penn Power | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Street Lighting | Plug Load | Existing | building | 2,913 | 46% | 0.5 | 5 | \$189 | 4% | 2.2 |
| FE-Penn Power | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Street Lighting | Plug Load | New | building | 1,422 | 46% | 0.5 | 5 | \$189 | 4% | 1.5 |
| FE-Penn Power | Data Center - Server/Storage Consolidation | No Consolidation | Street Lighting | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penn Power | Data Center - Server/Storage Consolidation | No Consolidation | Street Lighting | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penn Power | Data Center - Server/Storage Virtualization | No Virtualization | Street Lighting | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penn Power | Data Center - Server/Storage Virtualization | No Virtualization | Street Lighting | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penn Power | Energy Star - Scanners | Std Scanner | Street Lighting | Plug Load | New | measure | 68 | 3.8% | 0.04 | 4 | \$130 | 7% | 0.1 |
| FE-Penn Power | Energy Star - Scanners | Std Scanner | Street Lighting | Plug Load | ROB | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| FE-Penn Power | Energy Star Dishwasher | Existing Dishwasher units | Street Lighting | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,580 | 0% | 0.9 |
| FE-Penn Power | Energy Star Dishwasher | Standard Dishwasher unit | Street Lighting | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 0% | 2.8 |
| FE-Penn Power | Energy Star Dishwasher | Standard Dishwasher unit | Street Lighting | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 0% | 2.8 |
| FE-Penn Power | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Street Lighting | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 17% | 0.1 |
| FE-Penn Power | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Street Lighting | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 1.7 |
| FE-Penn Power | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Street Lighting | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 1.7 |
| FE-Penn Power | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Street Lighting | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 9% | 0.7 |
| FE-Penn Power | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Street Lighting | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.5 |
| FE-Penn Power | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Street Lighting | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.5 |
| FE-Penn Power | ENERGY STAR® Copiers | 10% Less Efficient Copier | Street Lighting | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 80% | 0.0 |
| FE-Penn Power | ENERGY STAR® Copiers | One Conventional Copier | Street Lighting | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 80% | 0.0 |
| FE-Penn Power | ENERGY STAR® Copiers | One Conventional Copier | Street Lighting | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 80% | 0.0 |
| FE-Penn Power | ENERGY STAR® desktop | Standard computer | Street Lighting | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 87% | 0.1 |
| FE-Penn Power | ENERGY STAR® desktop | Standard computer | Street Lighting | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 87% | 2.2 |
| FE-Penn Power | ENERGY STAR® desktop | Standard computer | Street Lighting | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 87% | 2.2 |
| FE-Penn Power | ENERGY STAR® Fax | 10% Less Efficient Fax | Street Lighting | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 89% | 0.0 |
| FE-Penn Power | ENERGY STAR® Fax | One Conventional Fax | Street Lighting | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 89% | 0.1 |
| FE-Penn Power | ENERGY STAR® Fax | One Conventional Fax | Street Lighting | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 89% | 0.1 |
| FE-Penn Power | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Street Lighting | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 89% | 0.0 |
| FE-Penn Power | ENERGY STAR® Monitors | One Conventional Monitor | Street Lighting | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 89% | 0.0 |
| FE-Penn Power | ENERGY STAR® Monitors | One Conventional Monitor | Street Lighting | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 89% | 0.0 |
| FE-Penn Power | ENERGY STAR® Printers | 10% Less Efficient Printer | Street Lighting | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 89% | 0.0 |
| FE-Penn Power | ENERGY STAR® Printers | One Conventional Printer | Street Lighting | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 89% | 0.3 |
| FE-Penn Power | ENERGY STAR® Printers | One Conventional Printer | Street Lighting | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$130 | 89% | 0.3 |
| FE-Penn Power | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Street Lighting | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 87% | 0.1 |
| FE-Penn Power | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Street Lighting | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 87% | 0.6 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|---|-----------------|---------------|----------|-------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Street Lighting | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 87% | 0.6 |
| FE-Penn Power | ENERGY STAR® Televisions | 10% Less Efficient Television | Street Lighting | Plug Load | Early | Unit | 111 | 38% | 0.01 | 6 | \$672 | 85% | 0.0 |
| FE-Penn Power | ENERGY STAR® Televisions | One Conventional Television | Street Lighting | Plug Load | New | Unit | 101 | 32% | 0.01 | 6 | \$206 | 85% | 0.0 |
| FE-Penn Power | ENERGY STAR® Televisions | One Conventional Television | Street Lighting | Plug Load | ROB | Unit | 101 | 32% | 0.01 | 6 | \$206 | 85% | 0.0 |
| FE-Penn Power | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Street Lighting | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 81% | 0.2 |
| FE-Penn Power | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Street Lighting | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 81% | 0.5 |
| FE-Penn Power | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Street Lighting | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 81% | 0.5 |
| FE-Penn Power | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Street Lighting | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.2 |
| FE-Penn Power | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Street Lighting | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.2 |
| FE-Penn Power | Network PC Power Management | No PC Power Management | Street Lighting | Plug Load | Existing | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 16.3 |
| FE-Penn Power | Network PC Power Management | No PC Power Management | Street Lighting | Plug Load | New | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 16.3 |
| FE-Penn Power | Smart Strip Plug Outlets | Standard plug strip/outlet | Street Lighting | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.3 |
| FE-Penn Power | Smart Strip Plug Outlets | Standard plug strip/outlet | Street Lighting | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.3 |
| FE-Penn Power | Smart Strip Plug Outlets | Standard plug strip/outlet | Street Lighting | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| FE-Penn Power | Smart Strip Plug Outlets | Standard plug strip/outlet | Street Lighting | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| FE-Penn Power | Smart Strip Plug Outlets | Standard plug strip/outlet | Street Lighting | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| FE-Penn Power | Smart Strip Plug Outlets | Standard plug strip/outlet | Street Lighting | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| FE-Penn Power | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Street Lighting | Plug Load | Existing | building | 2,913 | 46% | 0.5 | 5 | \$180 | 3% | 2.3 |
| FE-Penn Power | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Street Lighting | Plug Load | New | building | 1,422 | 46% | 0.5 | 5 | \$180 | 3% | 1.6 |
| FE-Penn Power | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Street Lighting | Refrigeration | Existing | building | 217 | 2.1% | 0.02 | 12 | \$70 | 11% | 0.2 |
| FE-Penn Power | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Street Lighting | Refrigeration | New | building | 217 | 2.1% | 0.02 | 12 | \$70 | 11% | 0.2 |
| FE-Penn Power | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Street Lighting | Refrigeration | Existing | building | 217 | 7.0% | 0.07 | 12 | \$70 | 11% | 0.8 |
| FE-Penn Power | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Street Lighting | Refrigeration | New | building | 217 | 7.0% | 0.07 | 12 | \$70 | 11% | 0.8 |
| FE-Penn Power | Auto Closer on Refrigerator Door | Door w/out Autocloser | Street Lighting | Refrigeration | Existing | building | 1,211 | 48% | 0.5 | 8 | \$747 | 40% | 0.5 |
| FE-Penn Power | Auto Closer on Refrigerator Door | Door w/out Autocloser | Street Lighting | Refrigeration | Existing | building | 4,105 | 17% | 0.2 | 8 | \$476 | 40% | 0.6 |
| FE-Penn Power | Auto Closer on Refrigerator Door | Door w/out Autocloser | Street Lighting | Refrigeration | New | building | 1,211 | 48% | 0.5 | 8 | \$747 | 40% | 0.5 |
| FE-Penn Power | Auto Closer on Refrigerator Door | Door w/out Autocloser | Street Lighting | Refrigeration | New | building | 4,105 | 17% | 0.2 | 8 | \$476 | 40% | 0.6 |
| FE-Penn Power | Demand Hot Gas Defrost | Base Refrigeration System | Street Lighting | Refrigeration | Existing | building | 217 | 3.0% | 0.03 | 10 | \$1,350 | 0% | 0.0 |
| FE-Penn Power | Demand Hot Gas Defrost | Base Refrigeration System | Street Lighting | Refrigeration | New | building | 217 | 3.0% | 0.03 | 10 | \$1,350 | 0% | 0.0 |
| FE-Penn Power | Door Gasket- Freezer | Door w/out Gasket | Street Lighting | Refrigeration | Existing | building | 1,211 | 26% | 0.3 | 4 | \$77 | 29% | 1.7 |
| FE-Penn Power | Door Gasket- Freezer | Door w/out Gasket | Street Lighting | Refrigeration | New | building | 1,211 | 26% | 0.3 | 4 | \$77 | 29% | 1.7 |
| FE-Penn Power | Door Gasket- Refrigerator | Door w/out Gasket | Street Lighting | Refrigeration | Existing | building | 4,105 | 5.4% | 0.05 | 4 | \$66 | 45% | 0.8 |
| FE-Penn Power | Door Gasket- Refrigerator | Door w/out Gasket | Street Lighting | Refrigeration | New | building | 4,105 | 5.4% | 0.05 | 4 | \$66 | 45% | 0.8 |
| FE-Penn Power | eCube | Refrigeration unit w/out eCube | Street Lighting | Refrigeration | Existing | building | 4,105 | 15% | 0.2 | 15 | \$504 | 57% | 0.7 |
| FE-Penn Power | eCube | Refrigeration unit w/out eCube | Street Lighting | Refrigeration | New | building | 4,105 | 15% | 0.2 | 15 | \$504 | 57% | 0.7 |
| FE-Penn Power | Efficient compressor motor | Base Refrigeration System - Grocery | Street Lighting | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.4 |
| FE-Penn Power | Efficient compressor motor | Base Refrigeration System - Grocery | Street Lighting | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.4 |
| FE-Penn Power | Efficient compressor motor | Base Refrigeration System - Grocery | Street Lighting | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.3 |
| FE-Penn Power | Efficient compressor motor | Base Refrigeration System - Grocery | Street Lighting | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.4 |
| FE-Penn Power | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Street Lighting | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.4 |
| FE-Penn Power | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Street Lighting | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.2 |
| FE-Penn Power | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Street Lighting | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.2 |
| FE-Penn Power | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Street Lighting | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.2 |
| FE-Penn Power | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Street Lighting | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.6 |
| FE-Penn Power | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Street Lighting | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.6 |
| FE-Penn Power | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Street Lighting | Refrigeration | Existing | building | 4,105 | 3.1% | 0.03 | 10 | \$369 | 77% | 0.2 |
| FE-Penn Power | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Street Lighting | Refrigeration | New | building | 4,105 | 3.1% | 0.03 | 10 | \$369 | 77% | 0.2 |
| FE-Penn Power | Floating head pressure controller | System w/out FHPC | Street Lighting | Refrigeration | Existing | building | 1,211 | 19% | 0.05 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penn Power | Floating head pressure controller | System w/out FHPC | Street Lighting | Refrigeration | Existing | building | 217 | 44% | 0.02 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penn Power | Floating head pressure controller | System w/out FHPC | Street Lighting | Refrigeration | Existing | building | 4,105 | 2.0% | 0.02 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penn Power | Floating head pressure controller | System w/out FHPC | Street Lighting | Refrigeration | New | building | 1,211 | 19% | 0.05 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penn Power | Floating head pressure controller | System w/out FHPC | Street Lighting | Refrigeration | New | building | 217 | 44% | 0.02 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penn Power | Floating head pressure controller | System w/out FHPC | Street Lighting | Refrigeration | New | building | 4,105 | 2.0% | 0.02 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penn Power | High Efficiency Commercial Freezer | Std. Commercial Freezer | Street Lighting | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 86% | 0.3 |
| FE-Penn Power | High Efficiency Commercial Freezer | Std. Commercial Freezer | Street Lighting | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 3.2 |
| FE-Penn Power | High Efficiency Commercial Freezer | Std. Commercial Freezer | Street Lighting | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 3.2 |
| FE-Penn Power | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Street Lighting | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 2% | 0.1 |
| FE-Penn Power | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Street Lighting | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.7 |
| FE-Penn Power | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Street Lighting | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.7 |
| FE-Penn Power | High Efficiency Ice Maker | Existing Standard Efficiency Ice Maker in Pennsylvania | Street Lighting | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 73% | 0.1 |
| FE-Penn Power | High Efficiency Ice Maker | Standard code minimum Ice Maker | Street Lighting | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.1 |
| FE-Penn Power | High Efficiency Ice Maker | Standard code minimum Ice Maker | Street Lighting | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.1 |
| FE-Penn Power | High Efficiency Ice Making Head | Standard Ice Making Head | Street Lighting | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.2 |
| FE-Penn Power | High Efficiency Ice Making Head | Standard Ice Making Head | Street Lighting | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.2 |
| FE-Penn Power | High R-Value Glass Doors | Base Refrigeration System - Grocery | Street Lighting | Refrigeration | Existing | building | 217 | 0.7% | 0.01 | 10 | \$8.5 | 0% | 0.6 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|---|-----------------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | High R-Value Glass Doors | Base Refrigeration System - Grocery | Street Lighting | Refrigeration | New | building | 217 | 0.7% | 0.01 | 10 | \$8.5 | 0% | 0.6 |
| FE-Penn Power | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Street Lighting | Refrigeration | Early | Fixture | 373 | 56% | 0.01 | 8 | \$448 | 47% | 0.1 |
| FE-Penn Power | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Street Lighting | Refrigeration | New | Fixture | 291 | 44% | 0.00 | 8 | \$139 | 47% | 0.3 |
| FE-Penn Power | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Street Lighting | Refrigeration | ROB | Fixture | 291 | 44% | 0.00 | 8 | \$139 | 47% | 0.3 |
| FE-Penn Power | No-heat glass doors | Standard low-temp reach-in | Street Lighting | Refrigeration | Existing | building | 217 | 20% | 0.2 | 10 | \$773 | 8% | 0.2 |
| FE-Penn Power | No-heat glass doors | Standard low-temp reach-in | Street Lighting | Refrigeration | New | building | 217 | 20% | 0.2 | 10 | \$773 | 8% | 0.2 |
| FE-Penn Power | Quick acting freezer doors | Std. Freezer Doors | Street Lighting | Refrigeration | Existing | building | 1,211 | 13% | 0.1 | 10 | \$455 | 56% | 0.3 |
| FE-Penn Power | Quick acting freezer doors | Std. Freezer Doors | Street Lighting | Refrigeration | New | building | 1,211 | 13% | 0.1 | 10 | \$455 | 56% | 0.3 |
| FE-Penn Power | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Street Lighting | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 30% | 0.3 |
| FE-Penn Power | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Street Lighting | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.3 |
| FE-Penn Power | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Street Lighting | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.3 |
| FE-Penn Power | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 30% | 1.3 |
| FE-Penn Power | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 2.2 |
| FE-Penn Power | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 2.2 |
| FE-Penn Power | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 30% | 1.3 |
| FE-Penn Power | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 3.0 |
| FE-Penn Power | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 3.0 |
| FE-Penn Power | Refrigeration Commissioning | Non-commissioned refrigeration system | Street Lighting | Refrigeration | Existing | building | 5,734 | 9.5% | 0.10 | 3 | \$1,204 | 85% | 0.1 |
| FE-Penn Power | Refrigeration Commissioning | Non-commissioned refrigeration system | Street Lighting | Refrigeration | New | building | 5,734 | 9.5% | 0.10 | 3 | \$1,204 | 85% | 0.1 |
| FE-Penn Power | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Street Lighting | Refrigeration | Existing | building | 1,211 | 62% | 0.6 | 4 | \$93 | 22% | 3.3 |
| FE-Penn Power | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Street Lighting | Refrigeration | Existing | building | 4,105 | 7.6% | 0.08 | 4 | \$80 | 22% | 0.9 |
| FE-Penn Power | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Street Lighting | Refrigeration | New | building | 1,211 | 62% | 0.6 | 4 | \$93 | 22% | 3.3 |
| FE-Penn Power | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Street Lighting | Refrigeration | New | building | 4,105 | 7.6% | 0.08 | 4 | \$80 | 22% | 0.9 |
| FE-Penn Power | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Street Lighting | Refrigeration | Existing | building | 1,211 | 11% | 0.1 | 11 | \$119 | 79% | 0.9 |
| FE-Penn Power | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Street Lighting | Refrigeration | New | building | 1,211 | 11% | 0.1 | 11 | \$119 | 79% | 0.9 |
| FE-Penn Power | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Street Lighting | Refrigeration | Existing | building | 4,105 | 8.1% | 0.08 | 11 | \$119 | 79% | 1.3 |
| FE-Penn Power | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Street Lighting | Refrigeration | New | building | 4,105 | 8.1% | 0.08 | 11 | \$119 | 79% | 1.3 |
| FE-Penn Power | Vertical Night Covers | Display cases w/out night covers-High Temperature | Street Lighting | Refrigeration | Existing | building | 217 | 1.1% | 0.01 | 5 | \$52 | 9% | 0.1 |
| FE-Penn Power | Vertical Night Covers | Display cases w/out night covers-High Temperature | Street Lighting | Refrigeration | New | building | 217 | 1.1% | 0.01 | 5 | \$52 | 9% | 0.1 |
| FE-Penn Power | VSD Controlled Compressor | Compressor w/out VSD | Street Lighting | Refrigeration | Early | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |
| FE-Penn Power | VSD Controlled Compressor | Compressor w/out VSD | Street Lighting | Refrigeration | New | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |
| FE-Penn Power | VSD Controlled Compressor | Compressor w/out VSD | Street Lighting | Refrigeration | ROB | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |
| FE-Penn Power | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Street Lighting | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$269 | 35% | 0.7 |
| FE-Penn Power | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Street Lighting | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$269 | 35% | 0.7 |
| FE-Penn Power | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Street Lighting | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 2.4 |
| FE-Penn Power | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Street Lighting | Refrigeration | New | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 2.3 |
| FE-Penn Power | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Street Lighting | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 2.4 |
| FE-Penn Power | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Street Lighting | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 2.3 |
| FE-Penn Power | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 35% | 1.9 |
| FE-Penn Power | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 35% | 1.8 |
| FE-Penn Power | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 3.9 |
| FE-Penn Power | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 3.7 |
| FE-Penn Power | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 3.9 |
| FE-Penn Power | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 3.7 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Street Lighting | Space Heating | Existing | building | 7,974 | 7.1% | 0.07 | 6 | \$12,241 | 82% | 0.0 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Street Lighting | Space Heating | New | building | 7,974 | 7.1% | 0.07 | 6 | \$12,241 | 82% | 0.0 |
| FE-Penn Power | Adding window shade film | No shade film | Street Lighting | Space Heating | Existing | building | 7,974 | 1.3% | 0.4 | 10 | \$97 | 13% | 2.7 |
| FE-Penn Power | Adding window shade film | No shade film | Street Lighting | Space Heating | New | building | 7,974 | 1.3% | 0.4 | 10 | \$97 | 13% | 2.7 |
| FE-Penn Power | Adding window shade screen | No shade screen | Street Lighting | Space Heating | Existing | building | 7,974 | 1.1% | 0.01 | 10 | \$38 | 13% | 0.8 |
| FE-Penn Power | Adding window shade screen | No shade screen | Street Lighting | Space Heating | New | building | 7,974 | 1.1% | 0.01 | 10 | \$38 | 13% | 0.8 |
| FE-Penn Power | Automated control system | Manual Controls | Street Lighting | Space Heating | Existing | building | 7,974 | 17% | 0.2 | 15 | \$8,730 | 51% | 0.1 |
| FE-Penn Power | Automated control system | Manual Controls | Street Lighting | Space Heating | New | building | 7,974 | 17% | 0.2 | 15 | \$8,730 | 94% | 0.1 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Street Lighting | Space Heating | Existing | building | 7,974 | 6.2% | 0.06 | 15 | \$17,130 | 71% | 0.0 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Street Lighting | Space Heating | New | building | 7,974 | 2.1% | 0.02 | 15 | \$16,283 | 94% | 0.0 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Street Lighting | Space Heating | Existing | building | 7,974 | 1.4% | 0.04 | 15 | \$63 | 20% | 1.2 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Street Lighting | Space Heating | New | building | 7,974 | 1.4% | 0.04 | 15 | \$63 | 10% | 1.2 |
| FE-Penn Power | Efficient Unit Heating System | Existing Unit Heaters in PA | Street Lighting | Space Heating | Early | heater | 30,117 | 23% | 0.05 | 15 | \$3,289 | 83% | 0.8 |
| FE-Penn Power | Efficient Unit Heating System | Std. Unit Heater | Street Lighting | Space Heating | New | heater | 26,729 | 13% | 0.03 | 15 | \$1,991 | 83% | 0.7 |
| FE-Penn Power | Efficient Unit Heating System | Std. Unit Heater | Street Lighting | Space Heating | ROB | heater | 26,729 | 13% | 0.03 | 15 | \$1,991 | 83% | 0.7 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Street Lighting | Space Heating | Existing | building | 7,974 | 7.1% | 0.07 | 15 | \$35,370 | 25% | 0.0 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Street Lighting | Space Heating | New | building | 7,974 | 7.1% | 0.07 | 15 | \$35,370 | 35% | 0.0 |
| FE-Penn Power | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Street Lighting | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 0.8 |
| FE-Penn Power | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Street Lighting | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 0.8 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|--|--|-----------------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Street Lighting | Space Heating | Existing | building | 7,974 | 2.2% | 0.02 | 10 | \$7,735 | 81% | 0.0 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Street Lighting | Space Heating | New | building | 7,974 | 2.2% | 0.02 | 10 | \$7,735 | 81% | 0.0 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Street Lighting | Space Heating | Existing | building | 7,974 | 3.6% | 0.04 | 11 | \$286 | 49% | 0.4 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Street Lighting | Space Heating | New | building | 7,974 | 3.1% | 0.03 | 11 | \$146 | 49% | 0.7 |
| FE-Penn Power | Re-Commissioning (Existing Construction) | No Re-Commissioning | Street Lighting | Space Heating | Existing | building | 7,974 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Street Lighting | Space Heating | Existing | building | 7,974 | 11% | 0.1 | 15 | \$3,285 | 26% | 0.1 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Street Lighting | Space Heating | New | building | 7,974 | 0.3% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| FE-Penn Power | Green LED Traffic Light | Green Incandescent Traffic Light | Street Lighting | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 67% | 1.0 |
| FE-Penn Power | Green LED Traffic Light | Green Incandescent Traffic Light | Street Lighting | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 67% | 0.1 |
| FE-Penn Power | Green LED Traffic Light | Green Incandescent Traffic Light | Street Lighting | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 67% | 0.1 |
| FE-Penn Power | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Street Lighting | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 4% | 2.6 |
| FE-Penn Power | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Street Lighting | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 4% | 0.4 |
| FE-Penn Power | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Street Lighting | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 4% | 0.4 |
| FE-Penn Power | Induction Street Lighting | One 100W HPS Street Light Fixture | Street Lighting | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 87% | 0.2 |
| FE-Penn Power | Induction Street Lighting | One 100W HPS Street Light Fixture | Street Lighting | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 87% | 1.4 |
| FE-Penn Power | Induction Street Lighting | One 100W HPS Street Light Fixture | Street Lighting | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 87% | 1.4 |
| FE-Penn Power | LED Street Lighting | One 100W HPS Street Light | Street Lighting | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 88% | 0.2 |
| FE-Penn Power | LED Street Lighting | One 100W HPS Street Light | Street Lighting | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 88% | 0.3 |
| FE-Penn Power | LED Street Lighting | One 100W HPS Street Light | Street Lighting | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 88% | 0.3 |
| FE-Penn Power | Red LED Traffic Light | One Red Incandescent Traffic Light | Street Lighting | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 67% | 1.4 |
| FE-Penn Power | Red LED Traffic Light | One Red Incandescent Traffic Light | Street Lighting | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 67% | 0.2 |
| FE-Penn Power | Red LED Traffic Light | One Red Incandescent Traffic Light | Street Lighting | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 67% | 0.2 |
| FE-Penn Power | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Street Lighting | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 67% | 0.1 |
| FE-Penn Power | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Street Lighting | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 67% | 0.0 |
| FE-Penn Power | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Street Lighting | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 67% | 0.0 |
| FE-Penn Power | Demand controlled Circulating Systems | Constant circulation system | Street Lighting | Water Heating | Existing | building | 2,162 | 20% | 0.2 | 15 | \$392 | 59% | 0.9 |
| FE-Penn Power | Demand controlled Circulating Systems | Constant circulation system | Street Lighting | Water Heating | New | building | 2,162 | 20% | 0.2 | 15 | \$392 | 59% | 0.9 |
| FE-Penn Power | Drainwater Heat Recovery Water Heater | No heat recovery | Street Lighting | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.5 |
| FE-Penn Power | Drainwater Heat Recovery Water Heater | No heat recovery | Street Lighting | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.5 |
| FE-Penn Power | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Street Lighting | Water Heating | Existing | building | 2,162 | 5.9% | 0.06 | 12 | \$14 | 85% | 6.2 |
| FE-Penn Power | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Street Lighting | Water Heating | New | building | 2,162 | 5.9% | 0.06 | 12 | \$4.0 | 85% | 21.7 |
| FE-Penn Power | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Street Lighting | Water Heating | Early | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 2.5 |
| FE-Penn Power | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Street Lighting | Water Heating | Early | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 2.5 |
| FE-Penn Power | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Street Lighting | Water Heating | New | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 2.5 |
| FE-Penn Power | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Street Lighting | Water Heating | New | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 2.5 |
| FE-Penn Power | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Street Lighting | Water Heating | ROB | water heater | 10,350 | 65% | 1.2 | 10 | \$1,187 | 68% | 2.4 |
| FE-Penn Power | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Street Lighting | Water Heating | ROB | water heater | 10,350 | 65% | 1.2 | 10 | \$1,187 | 68% | 2.4 |
| FE-Penn Power | Heat Recovery Unit | Base Water Heating | Street Lighting | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.3 |
| FE-Penn Power | Heat Recovery Unit | Base Water Heating | Street Lighting | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.3 |
| FE-Penn Power | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Street Lighting | Water Heating | Early | water heater | 10,645 | 5.9% | 0.1 | 15 | \$307 | 79% | 1.2 |
| FE-Penn Power | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Street Lighting | Water Heating | Early | water heater | 10,645 | 5.9% | 0.1 | 15 | \$307 | 79% | 1.2 |
| FE-Penn Power | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Street Lighting | Water Heating | New | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.6 |
| FE-Penn Power | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Street Lighting | Water Heating | New | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.6 |
| FE-Penn Power | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Street Lighting | Water Heating | ROB | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.6 |
| FE-Penn Power | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Street Lighting | Water Heating | ROB | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.6 |
| FE-Penn Power | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Street Lighting | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$466 | 81% | 32.0 |
| FE-Penn Power | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Street Lighting | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 16.7 |
| FE-Penn Power | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Street Lighting | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 16.7 |
| FE-Penn Power | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Street Lighting | Water Heating | Existing | building | 2,162 | 1.7% | 0.02 | 13 | \$5.4 | 68% | 4.9 |
| FE-Penn Power | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Street Lighting | Water Heating | New | building | 2,162 | 1.7% | 0.02 | 13 | \$5.4 | 0% | 4.9 |
| FE-Penn Power | Hot Water Circulation Pump Time-Clock | Constant circulation system | Street Lighting | Water Heating | Existing | building | 2,162 | 5.3% | 0.05 | 10 | \$8.7 | 72% | 8.0 |
| FE-Penn Power | Hot Water Circulation Pump Time-Clock | Constant circulation system | Street Lighting | Water Heating | New | building | 2,162 | 5.3% | 0.05 | 10 | \$8.7 | 72% | 8.0 |
| FE-Penn Power | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Street Lighting | Water Heating | Existing | building | 2,162 | 0.9% | 0.01 | 7 | \$22 | 78% | 0.4 |
| FE-Penn Power | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Street Lighting | Water Heating | New | building | 2,162 | 0.8% | 0.01 | 7 | \$0.5 | 78% | 16.4 |
| FE-Penn Power | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Street Lighting | Water Heating | Existing | building | 2,162 | 9.0% | 0.09 | 5 | \$300 | 0% | 0.2 |
| FE-Penn Power | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Street Lighting | Water Heating | New | building | 2,162 | 6.0% | 0.06 | 5 | \$194 | 0% | 0.2 |
| FE-Penn Power | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Street Lighting | Water Heating | Existing | building | 2,162 | 6.5% | 0.07 | 9 | \$25 | 2% | 3.2 |
| FE-Penn Power | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Street Lighting | Water Heating | New | building | 2,162 | 6.5% | 0.07 | 9 | \$6.0 | 2% | 13.3 |
| FE-Penn Power | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Street Lighting | Water Heating | Early | water heater | 10,645 | 52% | 0.4 | 15 | \$6,222 | 32% | 0.4 |
| FE-Penn Power | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Street Lighting | Water Heating | New | water heater | 10,350 | 51% | 0.4 | 15 | \$6,222 | 32% | 0.4 |
| FE-Penn Power | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Street Lighting | Water Heating | ROB | water heater | 10,350 | 51% | 0.4 | 15 | \$6,222 | 32% | 0.4 |
| FE-Penn Power | Ultrasonic Faucet Control | Manual Faucet Control | Street Lighting | Water Heating | Existing | building | 2,162 | 3.0% | 0.03 | 10 | \$374 | 77% | 0.1 |
| FE-Penn Power | Ultrasonic Faucet Control | Manual Faucet Control | Street Lighting | Water Heating | New | building | 2,162 | 3.0% | 0.03 | 10 | \$374 | 77% | 0.1 |
| FE-Penn Power | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Street Lighting | Water Heating | Existing | building | 2,162 | 2.2% | 0.02 | 4 | \$28 | 83% | 0.5 |
| FE-Penn Power | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Street Lighting | Water Heating | New | building | 2,162 | 2.3% | 0.02 | 4 | \$28 | 83% | 0.6 |
| FE-Penn Power | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Warehouse | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 0.9 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|--|---|-----------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Warehouse | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 0.9 |
| FE-Penn Power | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Warehouse | Cooking | Early | steamer | 16 | 68% | 0.00 | 12 | \$5,053 | 81% | 0.0 |
| FE-Penn Power | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Warehouse | Cooking | New | steamer | 7 | 29% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-Penn Power | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Warehouse | Cooking | ROB | steamer | 7 | 29% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-Penn Power | Electric combination oven (Energy Star) | Standard Oven | Warehouse | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.5 |
| FE-Penn Power | Electric combination oven (Energy Star) | Standard Oven | Warehouse | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.5 |
| FE-Penn Power | Electric Convection Oven | Conventional convection oven w/ 65% efficiency | Warehouse | Cooking | Early | oven | 8,641 | 37% | 0.6 | 12 | \$4,119 | 81% | 0.4 |
| FE-Penn Power | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Warehouse | Cooking | New | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.6 |
| FE-Penn Power | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Warehouse | Cooking | ROB | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.6 |
| FE-Penn Power | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Warehouse | Cooking | Early | fryer | 6,105 | 23% | 0.3 | 12 | \$9,241 | 86% | 0.1 |
| FE-Penn Power | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Warehouse | Cooking | New | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| FE-Penn Power | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Warehouse | Cooking | ROB | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| FE-Penn Power | High Efficiency Griddle (ENERGY STAR) | Efficiency code minimum griddle (70% eff) | Warehouse | Cooking | Early | griddle | 11,317 | 65% | 1.4 | 12 | \$4,977 | 86% | 0.7 |
| FE-Penn Power | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Warehouse | Cooking | New | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.0 |
| FE-Penn Power | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Warehouse | Cooking | ROB | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.0 |
| FE-Penn Power | High Efficiency Induction Cooking | Standard Cooking | Warehouse | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-Penn Power | High Efficiency Induction Cooking | Standard Cooking | Warehouse | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Warehouse | Cooling Central | Existing | building | 2,234 | 7.0% | 0.07 | 6 | \$19,655 | 82% | 0.0 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Warehouse | Cooling Central | New | building | 2,234 | 7.0% | 0.07 | 6 | \$19,655 | 82% | 0.0 |
| FE-Penn Power | Adding window shade film | No shade film | Warehouse | Cooling Central | Existing | building | 2,234 | 1.3% | 0.4 | 10 | \$27 | 13% | 8.7 |
| FE-Penn Power | Adding window shade film | No shade film | Warehouse | Cooling Central | New | building | 2,234 | 1.3% | 0.4 | 10 | \$27 | 13% | 8.7 |
| FE-Penn Power | Adding window shade screen | No shade screen | Warehouse | Cooling Central | Existing | building | 2,234 | 1.1% | 0.01 | 10 | \$11 | 13% | 1.3 |
| FE-Penn Power | Adding window shade screen | No shade screen | Warehouse | Cooling Central | New | building | 2,234 | 1.0% | 0.01 | 10 | \$11 | 13% | 1.3 |
| FE-Penn Power | Automated control system | Manual Controls | Warehouse | Cooling Central | Existing | building | 2,234 | 17% | 0.2 | 15 | \$2,446 | 51% | 0.1 |
| FE-Penn Power | Automated control system | Manual Controls | Warehouse | Cooling Central | New | building | 2,234 | 17% | 0.2 | 15 | \$2,446 | 94% | 0.1 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Warehouse | Cooling Central | Existing | building | 2,234 | 5.9% | 0.06 | 15 | \$27,901 | 71% | 0.0 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Warehouse | Cooling Central | New | building | 2,234 | 3.7% | 0.04 | 15 | \$26,520 | 94% | 0.0 |
| FE-Penn Power | Chiller Tuneup/Diagnostics | No tuneup | Warehouse | Cooling Central | Existing | building | 2,234 | 8.0% | 0.08 | 10 | \$5,705 | 59% | 0.0 |
| FE-Penn Power | Chiller Tuneup/Diagnostics | No tuneup | Warehouse | Cooling Central | New | building | 2,234 | 8.0% | 0.08 | 10 | \$5,705 | 59% | 0.0 |
| FE-Penn Power | Cooling Tower Optimization | No Cooling Tower Optimization | Warehouse | Cooling Central | Existing | building | 2,234 | 20% | 0.2 | 10 | \$14 | 69% | 19.2 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Warehouse | Cooling Central | Existing | building | 2,234 | 1.4% | 0.04 | 15 | \$18 | 20% | 2.5 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Warehouse | Cooling Central | New | building | 2,234 | 1.4% | 0.04 | 15 | \$18 | 10% | 2.5 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Warehouse | Cooling Central | Existing | building | 2,234 | 7.0% | 0.07 | 15 | \$9,910 | 25% | 0.0 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Warehouse | Cooling Central | New | building | 2,234 | 7.0% | 0.07 | 15 | \$9,910 | 35% | 0.0 |
| FE-Penn Power | Hi Eff HVAC System Design | No HVAC Design | Warehouse | Cooling Central | New | building | 2,234 | 12% | 0.1 | 10 | \$123,174 | 51% | 0.0 |
| FE-Penn Power | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | Early | ton | 4,330 | 24% | 0.4 | 15 | \$108,550 | 89% | 0.0 |
| FE-Penn Power | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | New | ton | 3,540 | 6.7% | 0.09 | 15 | \$12,927 | 89% | 0.0 |
| FE-Penn Power | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | ROB | ton | 3,540 | 6.7% | 0.09 | 15 | \$12,927 | 89% | 0.0 |
| FE-Penn Power | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | Early | ton | 6,471 | 23% | 0.6 | 15 | \$140,105 | 89% | 0.0 |
| FE-Penn Power | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | New | ton | 5,206 | 4.8% | 0.09 | 15 | \$9,336 | 89% | 0.0 |
| FE-Penn Power | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | ROB | ton | 5,206 | 4.8% | 0.09 | 15 | \$9,336 | 89% | 0.0 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | Early | ton | 52,971 | 26% | 5.0 | 15 | \$105,354 | 89% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | New | ton | 46,153 | 15% | 2.5 | 15 | \$30,530 | 89% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | ROB | ton | 46,153 | 15% | 2.5 | 15 | \$30,530 | 89% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | Early | ton | 79,336 | 23% | 6.6 | 15 | \$154,107 | 89% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | New | ton | 72,880 | 16% | 4.3 | 15 | \$27,646 | 89% | 0.3 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | ROB | ton | 79,336 | 23% | 6.6 | 15 | \$27,646 | 89% | 0.5 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | Early | ton | 131,762 | 23% | 10.9 | 15 | \$302,924 | 89% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | New | ton | 119,254 | 14% | 6.3 | 15 | \$115,432 | 89% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | ROB | ton | 131,762 | 23% | 10.9 | 15 | \$115,432 | 89% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | Early | ton | 158,114 | 23% | 13.1 | 15 | \$350,154 | 89% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | New | ton | 143,105 | 14% | 7.6 | 15 | \$120,406 | 89% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | ROB | ton | 158,114 | 23% | 13.1 | 15 | \$120,406 | 89% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | Early | ton | 35,047 | 29% | 3.8 | 15 | \$83,632 | 89% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|--|---|-----------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | New | ton | 27,214 | 8.9% | 0.9 | 15 | \$40,211 | 89% | 0.0 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | ROB | ton | 35,047 | 29% | 3.8 | 15 | \$40,211 | 89% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | Early | ton | 60,220 | 35% | 7.7 | 15 | \$132,173 | 89% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | New | ton | 44,914 | 13% | 2.1 | 15 | \$39,556 | 89% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | ROB | ton | 44,914 | 13% | 2.1 | 15 | \$39,556 | 89% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | Early | ton | 100,542 | 39% | 14.4 | 15 | \$187,029 | 89% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | New | ton | 71,685 | 15% | 3.8 | 15 | \$33,554 | 89% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | ROB | ton | 100,542 | 39% | 14.4 | 15 | \$33,554 | 89% | 0.8 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | Early | ton | 17,593 | 30% | 1.9 | 15 | \$32,398 | 89% | 0.1 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | New | ton | 13,939 | 11% | 0.6 | 15 | \$7,188 | 89% | 0.2 |
| FE-Penn Power | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | ROB | ton | 17,593 | 30% | 1.9 | 15 | \$7,188 | 89% | 0.5 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Warehouse | Cooling Central | Existing | building | 2,234 | 1.1% | 0.01 | 10 | \$42,091 | 81% | 0.0 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Warehouse | Cooling Central | New | building | 2,234 | 1.1% | 0.01 | 10 | \$42,091 | 81% | 0.0 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Warehouse | Cooling Central | Existing | building | 2,234 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.1 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Warehouse | Cooling Central | New | building | 2,234 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.2 |
| FE-Penn Power | Re-Commissioning (Existing Construction) | No Re-Commissioning | Warehouse | Cooling Central | Existing | building | 2,234 | 16% | 0.2 | 5 | \$8,619 | 86% | 0.0 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Warehouse | Cooling Central | Existing | building | 2,234 | 19% | 0.2 | 15 | \$6,551 | 26% | 0.1 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Warehouse | Cooling Central | New | building | 2,234 | 0.6% | 0.01 | 15 | \$5,025 | 94% | 0.0 |
| FE-Penn Power | <65k BTU/hr 14 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Warehouse | Cooling Unitary | Early | ton | 5,057 | 16% | 0.2 | 15 | \$1,545 | 28% | 0.3 |
| FE-Penn Power | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Warehouse | Cooling Unitary | New | ton | 4,580 | 7.1% | 0.07 | 15 | \$339 | 28% | 0.6 |
| FE-Penn Power | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Warehouse | Cooling Unitary | ROB | ton | 4,580 | 7.1% | 0.07 | 15 | \$339 | 28% | 0.6 |
| FE-Penn Power | <65k BTU/hr 15 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Warehouse | Cooling Unitary | Early | ton | 5,057 | 22% | 0.2 | 15 | \$1,821 | 28% | 0.4 |
| FE-Penn Power | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Warehouse | Cooling Unitary | New | ton | 4,580 | 13% | 0.1 | 15 | \$714 | 28% | 0.5 |
| FE-Penn Power | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Warehouse | Cooling Unitary | ROB | ton | 4,580 | 13% | 0.1 | 15 | \$714 | 28% | 0.5 |
| FE-Penn Power | <65k BTU/hr 16 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Warehouse | Cooling Unitary | Early | ton | 5,057 | 26% | 0.3 | 15 | \$2,098 | 29% | 0.4 |
| FE-Penn Power | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Warehouse | Cooling Unitary | New | ton | 4,580 | 19% | 0.2 | 15 | \$1,089 | 29% | 0.5 |
| FE-Penn Power | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Warehouse | Cooling Unitary | ROB | ton | 4,580 | 19% | 0.2 | 15 | \$1,089 | 29% | 0.5 |
| FE-Penn Power | >760k min 10.2 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Warehouse | Cooling Unitary | Early | ton | 127,951 | 3.7% | 1.1 | 15 | \$68,066 | 35% | 0.0 |
| FE-Penn Power | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Warehouse | Cooling Unitary | New | ton | 129,592 | 4.9% | 1.4 | 15 | \$6,231 | 35% | 0.6 |
| FE-Penn Power | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Warehouse | Cooling Unitary | ROB | ton | 129,592 | 4.9% | 1.4 | 15 | \$6,231 | 35% | 0.6 |
| FE-Penn Power | 135-240k min 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Warehouse | Cooling Unitary | Early | ton | 31,483 | 18% | 1.3 | 15 | \$18,135 | 35% | 0.2 |
| FE-Penn Power | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Warehouse | Cooling Unitary | New | ton | 28,639 | 10.0% | 0.6 | 15 | \$1,948 | 35% | 0.9 |
| FE-Penn Power | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Warehouse | Cooling Unitary | ROB | ton | 28,639 | 10.0% | 0.6 | 15 | \$1,948 | 35% | 0.9 |
| FE-Penn Power | 240k-760k min 11 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Warehouse | Cooling Unitary | Early | ton | 84,178 | 9.0% | 1.7 | 15 | \$44,809 | 35% | 0.1 |
| FE-Penn Power | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Warehouse | Cooling Unitary | New | ton | 84,388 | 9.3% | 1.7 | 15 | \$4,813 | 35% | 1.0 |
| FE-Penn Power | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Warehouse | Cooling Unitary | ROB | ton | 84,388 | 9.3% | 1.7 | 15 | \$4,813 | 35% | 1.0 |
| FE-Penn Power | 65k-135k BTU/hr 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Warehouse | Cooling Unitary | Early | ton | 18,559 | 17% | 0.7 | 15 | \$10,946 | 35% | 0.2 |
| FE-Penn Power | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Warehouse | Cooling Unitary | New | ton | 16,540 | 6.7% | 0.2 | 15 | \$1,392 | 35% | 0.5 |
| FE-Penn Power | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Warehouse | Cooling Unitary | ROB | ton | 16,540 | 6.7% | 0.2 | 15 | \$1,392 | 35% | 0.5 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Warehouse | Cooling Unitary | Existing | building | 20,728 | 7.0% | 0.07 | 6 | \$19,655 | 82% | 0.0 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Warehouse | Cooling Unitary | New | building | 20,728 | 7.0% | 0.07 | 6 | \$19,655 | 82% | 0.0 |
| FE-Penn Power | Adding window shade film | No shade film | Warehouse | Cooling Unitary | Existing | building | 20,728 | 1.3% | 0.4 | 10 | \$252 | 12% | 1.3 |
| FE-Penn Power | Adding window shade film | No shade film | Warehouse | Cooling Unitary | New | building | 20,728 | 1.3% | 0.4 | 10 | \$252 | 13% | 1.3 |
| FE-Penn Power | Adding window shade screen | No shade screen | Warehouse | Cooling Unitary | Existing | building | 20,728 | 1.1% | 0.01 | 10 | \$98 | 12% | 0.8 |
| FE-Penn Power | Adding window shade screen | No shade screen | Warehouse | Cooling Unitary | New | building | 20,728 | 1.1% | 0.01 | 10 | \$98 | 13% | 0.8 |
| FE-Penn Power | Automated control system | Manual Controls | Warehouse | Cooling Unitary | Existing | building | 20,728 | 17% | 0.2 | 15 | \$22,693 | 51% | 0.1 |
| FE-Penn Power | Automated control system | Manual Controls | Warehouse | Cooling Unitary | New | building | 20,728 | 17% | 0.2 | 15 | \$22,693 | 94% | 0.1 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Warehouse | Cooling Unitary | Existing | building | 20,728 | 5.9% | 0.06 | 15 | \$27,901 | 71% | 0.0 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Warehouse | Cooling Unitary | New | building | 20,728 | 3.7% | 0.04 | 15 | \$26,520 | 94% | 0.0 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Warehouse | Cooling Unitary | Existing | building | 20,728 | 1.4% | 0.04 | 15 | \$165 | 20% | 1.0 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Warehouse | Cooling Unitary | New | building | 20,728 | 1.4% | 0.04 | 15 | \$165 | 10% | 1.0 |
| FE-Penn Power | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Warehouse | Cooling Unitary | Existing | building | 11,328 | 13% | 0.1 | 1 | \$109 | 73% | 0.8 |
| FE-Penn Power | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Warehouse | Cooling Unitary | New | building | 11,328 | 13% | 0.1 | 1 | \$109 | 73% | 0.8 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|--|--|-----------|-----------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | ECM Motors for split systems | Std Shaded Pole Motor | Warehouse | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 35% | 2.4 |
| FE-Penn Power | ECM Motors for split systems | Std Shaded Pole Motor | Warehouse | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 35% | 2.4 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Warehouse | Cooling Unitary | Existing | building | 20,728 | 7.1% | 0.07 | 15 | \$91,946 | 25% | 0.0 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Warehouse | Cooling Unitary | New | building | 20,728 | 7.1% | 0.07 | 15 | \$91,946 | 35% | 0.0 |
| FE-Penn Power | Hi Eff HVAC System Design | No HVAC Design | Warehouse | Cooling Unitary | New | building | 20,728 | 12% | 0.1 | 10 | \$9,947 | 51% | 0.1 |
| FE-Penn Power | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Warehouse | Cooling Unitary | Existing | building | 20,728 | 5.0% | 0.05 | 5 | \$225 | 59% | 1.0 |
| FE-Penn Power | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Warehouse | Cooling Unitary | Existing | building | 20,728 | 0.7% | 0.05 | 5 | \$225 | 51% | 0.2 |
| FE-Penn Power | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Warehouse | Cooling Unitary | New | building | 20,728 | 0.6% | 0.05 | 5 | \$135 | 51% | 0.3 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Warehouse | Cooling Unitary | Existing | building | 20,728 | 1.1% | 0.01 | 10 | \$45,236 | 86% | 0.0 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Warehouse | Cooling Unitary | New | building | 20,728 | 1.1% | 0.01 | 10 | \$45,236 | 86% | 0.0 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) | Warehouse | Cooling Unitary | Existing | building | 20,728 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.6 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Warehouse | Cooling Unitary | New | building | 20,728 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.9 |
| FE-Penn Power | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Warehouse | Cooling Unitary | Early | unit | 199 | 19% | 0.01 | 15 | \$849 | 80% | 0.0 |
| FE-Penn Power | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Warehouse | Cooling Unitary | New | unit | 201 | 20% | 0.01 | 15 | \$356 | 80% | 0.1 |
| FE-Penn Power | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Warehouse | Cooling Unitary | ROB | unit | 201 | 20% | 0.01 | 15 | \$356 | 80% | 0.1 |
| FE-Penn Power | Re-Commissioning (Existing Construction) | No Re-Commissioning | Warehouse | Cooling Unitary | Existing | building | 20,728 | 16% | 0.2 | 5 | \$8,619 | 86% | 0.1 |
| FE-Penn Power | Room AC (w/ louvered sides) | Existing efficiency Room AC in Pennsylvania (2000 Federal Standards) | Warehouse | Cooling Unitary | Early | ton | 2,387 | 13% | 0.1 | 9 | \$348 | 78% | 0.5 |
| FE-Penn Power | Room AC (w/ louvered sides) | Std Room AC (Code Min. Federal Standards) | Warehouse | Cooling Unitary | New | ton | 2,164 | 4.5% | 0.04 | 9 | \$17 | 78% | 2.9 |
| FE-Penn Power | Room AC (w/ louvered sides) | Std Room AC (Code Min. Federal Standards) | Warehouse | Cooling Unitary | ROB | ton | 2,164 | 4.5% | 0.04 | 9 | \$17 | 78% | 2.9 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Warehouse | Cooling Unitary | Existing | building | 20,728 | 19% | 0.2 | 15 | \$6,551 | 26% | 0.3 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Warehouse | Cooling Unitary | New | building | 20,728 | 0.6% | 0.01 | 15 | \$5,025 | 94% | 0.0 |
| FE-Penn Power | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Warehouse | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 0.9 |
| FE-Penn Power | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Warehouse | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.0 |
| FE-Penn Power | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Warehouse | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.1 |
| FE-Penn Power | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Warehouse | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 0% | 0.1 |
| FE-Penn Power | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Warehouse | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-Penn Power | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Warehouse | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-Penn Power | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Warehouse | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 48% | 0.2 |
| FE-Penn Power | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Warehouse | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 48% | 0.2 |
| FE-Penn Power | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Warehouse | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 48% | 2.3 |
| FE-Penn Power | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Warehouse | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 48% | 1.7 |
| FE-Penn Power | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Warehouse | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 48% | 2.3 |
| FE-Penn Power | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Warehouse | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 48% | 1.7 |
| FE-Penn Power | Photocell Controls (Outdoor) | Lighting w/ No Controls | Warehouse | Ext. Lighting | Existing | building | 484 | 28% | 0.3 | 8 | \$3,718 | 88% | 0.1 |
| FE-Penn Power | Photocell Controls (Outdoor) | Lighting w/ No Controls | Warehouse | Ext. Lighting | New | building | 484 | 28% | 0.3 | 8 | \$3,718 | 0% | 0.1 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Warehouse | Heat Pump | Existing | building | 2,115 | 6.9% | 0.07 | 6 | \$19,655 | 82% | 0.0 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Warehouse | Heat Pump | New | building | 2,115 | 6.9% | 0.07 | 6 | \$19,655 | 82% | 0.0 |
| FE-Penn Power | Adding window shade film | No shade film | Warehouse | Heat Pump | Existing | building | 2,115 | 3.9% | 0.4 | 10 | \$26 | 12% | 9.8 |
| FE-Penn Power | Adding window shade film | No shade film | Warehouse | Heat Pump | New | building | 2,115 | 3.9% | 0.4 | 10 | \$26 | 12% | 9.8 |
| FE-Penn Power | Adding window shade screen | No shade screen | Warehouse | Heat Pump | Existing | building | 2,115 | 0.3% | 0.01 | 10 | \$3.3 | 12% | 2.5 |
| FE-Penn Power | Adding window shade screen | No shade screen | Warehouse | Heat Pump | New | building | 2,115 | 0.3% | 0.01 | 10 | \$3.3 | 12% | 2.5 |
| FE-Penn Power | Automated control system | Manual Controls | Warehouse | Heat Pump | Existing | building | 2,115 | 17% | 0.2 | 15 | \$2,315 | 51% | 0.1 |
| FE-Penn Power | Automated control system | Manual Controls | Warehouse | Heat Pump | New | building | 2,115 | 17% | 0.2 | 15 | \$2,315 | 94% | 0.1 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Warehouse | Heat Pump | Existing | building | 2,115 | 5.9% | 0.06 | 15 | \$27,901 | 71% | 0.0 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Warehouse | Heat Pump | New | building | 2,115 | 3.7% | 0.04 | 15 | \$26,520 | 94% | 0.0 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Warehouse | Heat Pump | Existing | building | 2,115 | 4.0% | 0.04 | 15 | \$17 | 12% | 3.9 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Warehouse | Heat Pump | New | building | 2,115 | 4.0% | 0.04 | 15 | \$17 | 6% | 3.9 |
| FE-Penn Power | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Warehouse | Heat Pump | Early | heat pump | 3,034 | 14% | 0.04 | 15 | \$4,070 | 83% | 0.0 |
| FE-Penn Power | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Warehouse | Heat Pump | New | heat pump | 2,830 | 7.5% | 0.02 | 15 | \$1,097 | 83% | 0.1 |
| FE-Penn Power | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Warehouse | Heat Pump | ROB | heat pump | 2,830 | 7.5% | 0.02 | 15 | \$1,097 | 83% | 0.1 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Warehouse | Heat Pump | Existing | building | 2,115 | 7.0% | 0.07 | 15 | \$9,382 | 25% | 0.0 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Warehouse | Heat Pump | New | building | 2,115 | 7.0% | 0.07 | 15 | \$9,382 | 35% | 0.0 |
| FE-Penn Power | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Warehouse | Heat Pump | Early | heat pump | 32,462 | 21% | 0.6 | 15 | \$91,117 | 19% | 0.0 |
| FE-Penn Power | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Warehouse | Heat Pump | New | heat pump | 30,738 | 17% | 0.4 | 15 | \$33,927 | 19% | 0.1 |
| FE-Penn Power | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Warehouse | Heat Pump | ROB | heat pump | 30,738 | 17% | 0.4 | 15 | \$33,927 | 19% | 0.1 |
| FE-Penn Power | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Warehouse | Heat Pump | Early | heat pump | 32,462 | 21% | 0.6 | 15 | \$58,356 | 19% | 0.1 |
| FE-Penn Power | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Warehouse | Heat Pump | New | heat pump | 30,738 | 17% | 0.4 | 15 | \$1,167 | 19% | 2.0 |
| FE-Penn Power | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Warehouse | Heat Pump | ROB | heat pump | 30,738 | 17% | 0.4 | 15 | \$1,167 | 19% | 2.0 |
| FE-Penn Power | Hi Eff HVAC System Design | No HVAC Design | Warehouse | Heat Pump | New | building | 2,115 | 12% | 0.1 | 10 | \$123,174 | 51% | 0.0 |
| FE-Penn Power | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Warehouse | Heat Pump | Early | heat pump | 8,098 | 19% | 0.1 | 12 | \$4,298 | 81% | 0.1 |
| FE-Penn Power | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Warehouse | Heat Pump | Early | heat pump | 8,098 | 24% | 0.2 | 12 | \$5,883 | 81% | 0.1 |
| FE-Penn Power | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Warehouse | Heat Pump | New | heat pump | 7,553 | 13% | 0.08 | 12 | \$852 | 81% | 0.4 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|--|--|-----------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Warehouse | Heat Pump | New | heat pump | 7,553 | 18% | 0.1 | 12 | \$2,437 | 81% | 0.2 |
| FE-Penn Power | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Warehouse | Heat Pump | ROB | heat pump | 7,553 | 13% | 0.08 | 12 | \$852 | 81% | 0.4 |
| FE-Penn Power | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Warehouse | Heat Pump | ROB | heat pump | 7,553 | 18% | 0.1 | 12 | \$2,437 | 81% | 0.2 |
| FE-Penn Power | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Warehouse | Heat Pump | Existing | building | 2,115 | 5.0% | 0.01 | 5 | \$90 | 51% | 0.2 |
| FE-Penn Power | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Warehouse | Heat Pump | New | building | 2,115 | 5.0% | 0.01 | 5 | \$90 | 51% | 0.2 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Warehouse | Heat Pump | Existing | building | 2,115 | 1.1% | 0.01 | 10 | \$40,275 | 81% | 0.0 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Warehouse | Heat Pump | New | building | 2,115 | 1.1% | 0.01 | 10 | \$40,275 | 81% | 0.0 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Warehouse | Heat Pump | Existing | building | 2,115 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.1 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Warehouse | Heat Pump | New | building | 2,115 | 2.1% | 0.02 | 11 | \$146 | 49% | 0.2 |
| FE-Penn Power | Re-Commissioning (Existing Construction) | No Re-Commissioning | Warehouse | Heat Pump | Existing | building | 2,115 | 16% | 0.2 | 5 | \$8,619 | 86% | 0.0 |
| FE-Penn Power | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Warehouse | Heat Pump | New | measure | 290,645 | 2.0% | 0.7 | 13 | \$36,589 | 43% | 0.1 |
| FE-Penn Power | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Warehouse | Heat Pump | ROB | measure | 290,645 | 2.0% | 0.7 | 13 | \$36,589 | 43% | 0.1 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Warehouse | Heat Pump | Existing | building | 2,115 | 19% | 0.2 | 15 | \$6,551 | 26% | 0.0 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Warehouse | Heat Pump | New | building | 2,115 | 0.6% | 0.01 | 15 | \$5,025 | 94% | 0.0 |
| FE-Penn Power | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Warehouse | Heat Pump | Early | heat pump | 12,404 | 28% | 0.3 | 15 | \$35,347 | 28% | 0.0 |
| FE-Penn Power | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Warehouse | Heat Pump | New | heat pump | 11,424 | 22% | 0.2 | 15 | \$15,739 | 28% | 0.1 |
| FE-Penn Power | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Warehouse | Heat Pump | ROB | heat pump | 11,424 | 22% | 0.2 | 15 | \$15,739 | 28% | 0.1 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | Early | Fixture | 536 | 9.6% | 0.01 | 13 | \$850 | 39% | 0.0 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Warehouse | High Bay Lighting | Early | Fixture | 535 | 9.5% | 0.01 | 13 | \$850 | 28% | 0.0 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Warehouse | High Bay Lighting | Early | Fixture | 827 | 41% | 0.08 | 13 | \$850 | 36% | 0.2 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | New | Fixture | 407 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Warehouse | High Bay Lighting | New | Fixture | 379 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Warehouse | High Bay Lighting | New | Fixture | 628 | 41% | 0.06 | 13 | \$397 | 36% | 0.4 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 536 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 499 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-Penn Power | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 827 | 41% | 0.08 | 13 | \$397 | 36% | 0.5 |
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | Early | Fixture | 1,040 | 19% | 0.05 | 13 | \$851 | 38% | 0.1 |
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Warehouse | High Bay Lighting | Early | Fixture | 1,053 | 20% | 0.05 | 13 | \$851 | 38% | 0.1 |
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | Early | Fixture | 3,064 | 73% | 0.5 | 13 | \$851 | 38% | 1.4 |
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | New | Fixture | 791 | 19% | 0.03 | 13 | \$372 | 38% | 0.2 |
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | New | Fixture | 2,329 | 73% | 0.4 | 13 | \$383 | 38% | 2.4 |
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 1,040 | 19% | 0.05 | 13 | \$372 | 38% | 0.3 |
| FE-Penn Power | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 3,064 | 73% | 0.5 | 13 | \$383 | 38% | 3.2 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | Early | Fixture | 1,040 | 25% | 0.06 | 13 | \$554 | 29% | 0.3 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Warehouse | High Bay Lighting | Early | Fixture | 1,021 | 23% | 0.05 | 13 | \$554 | 28% | 0.2 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | Early | Fixture | 3,064 | 74% | 0.5 | 13 | \$554 | 36% | 2.3 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | New | Fixture | 791 | 25% | 0.04 | 13 | \$75 | 29% | 1.4 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | New | Fixture | 2,329 | 74% | 0.4 | 13 | \$86 | 36% | 11.1 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 1,040 | 25% | 0.06 | 13 | \$75 | 29% | 1.9 |
| FE-Penn Power | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 3,064 | 74% | 0.5 | 13 | \$86 | 36% | 14.6 |
| FE-Penn Power | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Warehouse | High Bay Lighting | Early | Fixture | 271 | 0.2% | 0.00 | 13 | \$835 | 38% | 0.0 |
| FE-Penn Power | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Warehouse | High Bay Lighting | Early | Fixture | 584 | 54% | 0.07 | 13 | \$835 | 38% | 0.2 |
| FE-Penn Power | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Warehouse | High Bay Lighting | New | Fixture | 444 | 54% | 0.05 | 13 | \$382 | 38% | 0.3 |
| FE-Penn Power | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 584 | 54% | 0.07 | 13 | \$382 | 38% | 0.4 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | Early | Fixture | 1,325 | 18% | 0.05 | 13 | \$487 | 25% | 0.3 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Warehouse | High Bay Lighting | Early | Fixture | 1,386 | 22% | 0.07 | 13 | \$487 | 28% | 0.3 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | Early | Fixture | 3,064 | 65% | 0.4 | 13 | \$487 | 36% | 2.2 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | New | Fixture | 1,007 | 18% | 0.04 | 13 | \$16 | 25% | 6.2 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | New | Fixture | 2,329 | 65% | 0.3 | 13 | \$18 | 36% | 44.9 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 1,325 | 18% | 0.05 | 13 | \$16 | 25% | 8.2 |
| FE-Penn Power | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 3,064 | 65% | 0.4 | 13 | \$18 | 36% | 59.0 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | Early | Fixture | 1,325 | 1.5% | 0.00 | 13 | \$557 | 19% | 0.0 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Warehouse | High Bay Lighting | Early | Fixture | 1,364 | 4.3% | 0.01 | 13 | \$557 | 19% | 0.1 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | Early | Fixture | 3,064 | 57% | 0.4 | 13 | \$557 | 19% | 1.7 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | New | Fixture | 1,007 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | New | Fixture | 2,329 | 57% | 0.3 | 13 | \$88 | 19% | 8.3 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 1,325 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| FE-Penn Power | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 3,064 | 57% | 0.4 | 13 | \$88 | 19% | 10.9 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Warehouse | High Bay Lighting | Early | Fixture | 563 | 29% | 0.03 | 13 | \$492 | 71% | 0.2 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | Early | Fixture | 471 | 15% | 0.01 | 13 | \$492 | 95% | 0.1 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Warehouse | High Bay Lighting | Early | Fixture | 699 | 43% | 0.05 | 13 | \$492 | 95% | 0.3 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Warehouse | High Bay Lighting | Early | Fixture | 648 | 38% | 0.04 | 13 | \$492 | 95% | 0.3 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | New | Fixture | 358 | 15% | 0.01 | 13 | \$25 | 95% | 1.1 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Warehouse | High Bay Lighting | New | Fixture | 531 | 43% | 0.04 | 13 | \$51 | 95% | 2.2 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 471 | 15% | 0.01 | 13 | \$25 | 95% | 1.4 |
| FE-Penn Power | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 699 | 43% | 0.05 | 13 | \$51 | 95% | 2.9 |
| FE-Penn Power | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Warehouse | High Bay Lighting | Early | lamp | 77 | 16% | 0.00 | 14 | \$7.7 | 99% | 0.9 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|--|-----------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Warehouse | High Bay Lighting | New | lamp | 46 | 13% | 0.00 | 14 | \$1.6 | 91% | 2.1 |
| FE-Penn Power | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Warehouse | High Bay Lighting | ROB | lamp | 74 | 13% | 0.00 | 14 | \$1.6 | 91% | 3.3 |
| FE-Penn Power | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | Early | Fixture | 3,135 | 23% | 0.2 | 13 | \$613 | 5% | 0.6 |
| FE-Penn Power | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Warehouse | High Bay Lighting | Early | Fixture | 2,463 | 1.6% | 0.01 | 13 | \$613 | 28% | 0.0 |
| FE-Penn Power | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | Early | Fixture | 6,128 | 60% | 0.8 | 13 | \$613 | 18% | 3.3 |
| FE-Penn Power | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | New | Fixture | 2,383 | 23% | 0.1 | 13 | \$96 | 5% | 3.1 |
| FE-Penn Power | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 3,135 | 23% | 0.2 | 13 | \$96 | 5% | 4.1 |
| FE-Penn Power | Auto Off Time Switch | Lighting w/ No Controls | Warehouse | High Bay Lighting | Existing | building | 10,897 | 24% | 0.2 | 8 | \$755 | 13% | 1.1 |
| FE-Penn Power | Auto Off Time Switch | Lighting w/ No Controls | Warehouse | High Bay Lighting | New | building | 10,897 | 6.9% | 0.07 | 8 | \$755 | 0% | 0.3 |
| FE-Penn Power | Central Lighting Control System | Lighting w/ No Controls | Warehouse | High Bay Lighting | Existing | building | 10,897 | 38% | 0.4 | 8 | \$755 | 13% | 1.6 |
| FE-Penn Power | Central Lighting Control System | Lighting w/ No Controls | Warehouse | High Bay Lighting | New | building | 10,897 | 14% | 0.1 | 8 | \$755 | 13% | 0.7 |
| FE-Penn Power | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Warehouse | High Bay Lighting | New | building | 10,897 | 10% | 0.1 | 15 | \$31,316 | 32% | 0.0 |
| FE-Penn Power | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Warehouse | High Bay Lighting | New | building | 10,897 | 15% | 0.2 | 15 | \$78,291 | 32% | 0.0 |
| FE-Penn Power | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Warehouse | High Bay Lighting | New | building | 10,897 | 30% | 0.3 | 15 | \$112,217 | 32% | 0.0 |
| FE-Penn Power | Indoor Daylight Sensors | Lighting w/ No Controls | Warehouse | High Bay Lighting | Existing | building | 10,897 | 28% | 0.3 | 8 | \$3,718 | 13% | 0.3 |
| FE-Penn Power | Indoor Daylight Sensors | Lighting w/ No Controls | Warehouse | High Bay Lighting | New | building | 10,897 | 4.1% | 0.04 | 8 | \$3,718 | 0% | 0.0 |
| FE-Penn Power | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | Early | Fixture | 3,135 | 92% | 0.7 | 13 | \$1,916 | 95% | 0.8 |
| FE-Penn Power | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | Early | Fixture | 6,128 | 96% | 1.3 | 13 | \$1,916 | 95% | 1.7 |
| FE-Penn Power | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | New | Fixture | 2,383 | 92% | 0.5 | 13 | \$1,468 | 95% | 0.8 |
| FE-Penn Power | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | New | Fixture | 4,658 | 96% | 1.0 | 13 | \$1,149 | 95% | 2.1 |
| FE-Penn Power | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 3,135 | 92% | 0.7 | 13 | \$1,468 | 95% | 1.1 |
| FE-Penn Power | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 6,128 | 96% | 1.3 | 13 | \$1,149 | 95% | 2.8 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | Early | Fixture | 1,040 | 67% | 0.2 | 13 | \$960 | 95% | 0.4 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Warehouse | High Bay Lighting | Early | Fixture | 3,064 | 89% | 0.6 | 13 | \$960 | 95% | 1.6 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Warehouse | High Bay Lighting | Early | Fixture | 841 | 59% | 0.1 | 13 | \$960 | 95% | 0.3 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | New | Fixture | 791 | 67% | 0.1 | 13 | \$480 | 95% | 0.6 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Warehouse | High Bay Lighting | New | Fixture | 2,329 | 89% | 0.5 | 13 | \$491 | 95% | 2.3 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Warehouse | High Bay Lighting | New | Fixture | 639 | 59% | 0.08 | 13 | \$406 | 95% | 0.5 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 1,040 | 67% | 0.2 | 13 | \$480 | 95% | 0.8 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 3,064 | 89% | 0.6 | 13 | \$491 | 95% | 3.0 |
| FE-Penn Power | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 841 | 59% | 0.1 | 13 | \$406 | 95% | 0.7 |
| FE-Penn Power | Occupancy Sensor | Lighting w/ No Controls | Warehouse | High Bay Lighting | Existing | building | 10,897 | 24% | 0.2 | 8 | \$1,138 | 12% | 0.7 |
| FE-Penn Power | Occupancy Sensor | Lighting w/ No Controls | Warehouse | High Bay Lighting | New | building | 10,897 | 6.9% | 0.07 | 8 | \$1,138 | 0% | 0.2 |
| FE-Penn Power | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Warehouse | High Bay Lighting | Existing | building | 10,897 | 28% | 0.3 | 8 | \$3,718 | 12% | 0.3 |
| FE-Penn Power | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Warehouse | High Bay Lighting | New | building | 10,897 | 4.0% | 0.04 | 8 | \$3,718 | 0% | 0.0 |
| FE-Penn Power | Time Clock Control | Lighting w/ No Controls | Warehouse | High Bay Lighting | Existing | building | 10,897 | 28% | 0.3 | 8 | \$755 | 13% | 1.3 |
| FE-Penn Power | Time Clock Control | Lighting w/ No Controls | Warehouse | High Bay Lighting | New | building | 10,897 | 4.0% | 0.04 | 8 | \$755 | 0% | 0.2 |
| FE-Penn Power | Auto Off Time Switch | Lighting w/ No Controls | Warehouse | Lin. Fluor. Lighting | Existing | building | 5,607 | 24% | 0.2 | 8 | \$755 | 13% | 0.7 |
| FE-Penn Power | Auto Off Time Switch | Lighting w/ No Controls | Warehouse | Lin. Fluor. Lighting | New | building | 5,607 | 6.9% | 0.07 | 8 | \$755 | 0% | 0.2 |
| FE-Penn Power | Central Lighting Control System | Lighting w/ No Controls | Warehouse | Lin. Fluor. Lighting | Existing | building | 5,607 | 38% | 0.4 | 8 | \$755 | 12% | 1.0 |
| FE-Penn Power | Central Lighting Control System | Lighting w/ No Controls | Warehouse | Lin. Fluor. Lighting | New | building | 5,607 | 14% | 0.1 | 8 | \$755 | 12% | 0.4 |
| FE-Penn Power | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Warehouse | Lin. Fluor. Lighting | New | building | 5,607 | 10% | 0.1 | 15 | \$31,316 | 32% | 0.0 |
| FE-Penn Power | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Warehouse | Lin. Fluor. Lighting | New | building | 5,607 | 15% | 0.2 | 15 | \$78,291 | 32% | 0.0 |
| FE-Penn Power | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Warehouse | Lin. Fluor. Lighting | New | building | 5,607 | 30% | 0.3 | 15 | \$112,217 | 32% | 0.0 |
| FE-Penn Power | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Warehouse | Lin. Fluor. Lighting | Early | Lamp | 155 | 38% | 0.01 | 14 | \$7.3 | 94% | 4.5 |
| FE-Penn Power | Indoor Daylight Sensors | Lighting w/ No Controls | Warehouse | Lin. Fluor. Lighting | Existing | building | 5,607 | 28% | 0.3 | 8 | \$3,718 | 13% | 0.2 |
| FE-Penn Power | Indoor Daylight Sensors | Lighting w/ No Controls | Warehouse | Lin. Fluor. Lighting | New | building | 5,607 | 4.1% | 0.04 | 8 | \$3,718 | 0% | 0.0 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | Early | Lamp | 68 | 19% | 0.00 | 15 | \$35 | 94% | 0.2 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 40W T12 Lamp, Magnetic Ballast | Warehouse | Lin. Fluor. Lighting | Early | Lamp | 149 | 63% | 0.02 | 15 | \$35 | 94% | 1.6 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | Early | Lamp | 84 | 34% | 0.01 | 15 | \$35 | 94% | 0.5 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | Early | Lamp | 81 | 32% | 0.01 | 15 | \$35 | 94% | 0.4 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | New | Lamp | 62 | 19% | 0.00 | 15 | \$28 | 94% | 0.2 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | New | Lamp | 62 | 32% | 0.00 | 15 | \$29 | 94% | 0.4 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | New | Lamp | 64 | 34% | 0.00 | 15 | \$22 | 94% | 0.6 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | New | Lamp | 62 | 32% | 0.00 | 15 | \$29 | 94% | 0.4 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | ROB | Lamp | 68 | 19% | 0.00 | 15 | \$28 | 94% | 0.3 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | ROB | Lamp | 81 | 32% | 0.01 | 15 | \$29 | 94% | 0.5 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | ROB | Lamp | 84 | 34% | 0.01 | 15 | \$22 | 94% | 0.8 |
| FE-Penn Power | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | ROB | Lamp | 81 | 32% | 0.01 | 15 | \$29 | 94% | 0.5 |
| FE-Penn Power | Occupancy Sensor | Lighting w/ No Controls | Warehouse | Lin. Fluor. Lighting | Existing | building | 5,607 | 24% | 0.2 | 8 | \$1,138 | 13% | 0.4 |
| FE-Penn Power | Occupancy Sensor | Lighting w/ No Controls | Warehouse | Lin. Fluor. Lighting | New | building | 5,607 | 7.0% | 0.07 | 8 | \$1,138 | 0% | 0.1 |
| FE-Penn Power | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Warehouse | Lin. Fluor. Lighting | Existing | building | 5,607 | 28% | 0.3 | 8 | \$3,718 | 12% | 0.2 |
| FE-Penn Power | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Warehouse | Lin. Fluor. Lighting | New | building | 5,607 | 4.1% | 0.04 | 8 | \$3,718 | 0% | 0.0 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 40W T12 w/ Magnetic Ballast | Warehouse | Lin. Fluor. Lighting | Early | Lamp | 155 | 54% | 0.02 | 14 | \$9.1 | 94% | 5.1 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | Early | Lamp | 99 | 28% | 0.01 | 14 | \$9.1 | 24% | 1.7 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | Early | Lamp | 96 | 26% | 0.00 | 14 | \$9.1 | 94% | 1.5 |
| FE-Penn Power | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | New | Lamp | 73 | 26% | 0.00 | 14 | \$2.5 | 94% | 4.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|--|-----------|---------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Downsizing motor during retrofit | Larger hp standard motor | Warehouse | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 19.3 |
| FE-Penn Power | Downsizing motor during retrofit | Larger hp standard motor | Warehouse | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 17.9 |
| FE-Penn Power | Downsizing motor during retrofit | Larger hp standard motor | Warehouse | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 18.2 |
| FE-Penn Power | Downsizing motor during retrofit | Larger hp standard motor | Warehouse | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 18.3 |
| FE-Penn Power | Downsizing motor during retrofit | Larger hp standard motor | Warehouse | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 18.7 |
| FE-Penn Power | Downsizing motor during retrofit | Larger hp standard motor | Warehouse | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 19.3 |
| FE-Penn Power | Escalator Motor Controller | Constant power control | Warehouse | Motors | New | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 67% | 4.8 |
| FE-Penn Power | Escalator Motor Controller | Constant power control | Warehouse | Motors | ROB | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 67% | 4.8 |
| FE-Penn Power | Variable Speed Drive Control, 15HP | Existing Motors w/out VSD Drive | Warehouse | Motors | Early | motor | 37,268 | 70% | 3.5 | 15 | \$731 | 86% | 18.3 |
| FE-Penn Power | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Warehouse | Motors | New | motor | 36,467 | 72% | 3.5 | 15 | \$731 | 86% | 18.3 |
| FE-Penn Power | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Warehouse | Motors | ROB | motor | 36,467 | 72% | 3.5 | 15 | \$731 | 86% | 18.3 |
| FE-Penn Power | Variable Speed Drive Control, 40HP | Existing Motors w/out VSD Drive | Warehouse | Motors | Early | motor | 97,245 | 71% | 9.1 | 15 | \$4,666 | 86% | 7.5 |
| FE-Penn Power | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Warehouse | Motors | New | motor | 96,108 | 72% | 9.1 | 15 | \$4,666 | 86% | 7.5 |
| FE-Penn Power | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Warehouse | Motors | ROB | motor | 96,108 | 72% | 9.1 | 15 | \$4,666 | 86% | 7.5 |
| FE-Penn Power | Variable Speed Drive Control, 5HP | Existing Motors w/out VFD Drive | Warehouse | Motors | Early | motor | 12,920 | 70% | 1.2 | 15 | \$2,243 | 86% | 2.1 |
| FE-Penn Power | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Warehouse | Motors | New | motor | 12,631 | 71% | 1.2 | 15 | \$2,243 | 86% | 2.1 |
| FE-Penn Power | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Warehouse | Motors | ROB | motor | 12,631 | 71% | 1.2 | 15 | \$2,243 | 86% | 2.1 |
| FE-Penn Power | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Warehouse | Motors | Early | motor | 3,717 | 30% | 0.1 | 15 | \$268 | 13% | 2.1 |
| FE-Penn Power | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Warehouse | Motors | New | motor | 3,717 | 30% | 0.1 | 15 | \$268 | 13% | 2.1 |
| FE-Penn Power | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Warehouse | Motors | ROB | motor | 3,717 | 30% | 0.1 | 15 | \$268 | 13% | 2.1 |
| FE-Penn Power | VFD on Chilled Water Pump | Motor w/out VFD Drive | Warehouse | Motors | Early | motor | 15,992 | 54% | 2.7 | 15 | \$2,903 | 86% | 1.9 |
| FE-Penn Power | VFD on Chilled Water Pump | Motor w/out VFD Drive | Warehouse | Motors | New | motor | 15,693 | 55% | 2.7 | 15 | \$2,843 | 86% | 2.0 |
| FE-Penn Power | VFD on Chilled Water Pump | Motor w/out VFD Drive | Warehouse | Motors | ROB | motor | 15,693 | 55% | 2.7 | 15 | \$2,843 | 86% | 2.0 |
| FE-Penn Power | VFD on Condenser Water Pump | Motor w/out VFD Drive | Warehouse | Motors | Early | motor | 15,905 | 32% | 3.2 | 15 | \$2,903 | 86% | 1.6 |
| FE-Penn Power | VFD on Condenser Water Pump | Motor w/out VFD Drive | Warehouse | Motors | New | motor | 15,607 | 33% | 3.1 | 15 | \$2,843 | 86% | 1.6 |
| FE-Penn Power | VFD on Condenser Water Pump | Motor w/out VFD Drive | Warehouse | Motors | ROB | motor | 15,607 | 33% | 3.1 | 15 | \$2,843 | 86% | 1.6 |
| FE-Penn Power | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Warehouse | Motors | Early | motor | 29,846 | 56% | 0.00 | 15 | \$2,903 | 86% | 2.3 |
| FE-Penn Power | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Warehouse | Motors | New | motor | 29,288 | 57% | 0.00 | 15 | \$2,843 | 86% | 2.4 |
| FE-Penn Power | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Warehouse | Motors | ROB | motor | 29,288 | 57% | 0.00 | 15 | \$2,843 | 86% | 2.4 |
| FE-Penn Power | VFD on HVAC Fan | Motor w/out VFD | Warehouse | Motors | Early | motor | 15,992 | 70% | 3.4 | 15 | \$2,903 | 86% | 2.5 |
| FE-Penn Power | VFD on HVAC Fan | Motor w/out VFD | Warehouse | Motors | New | motor | 15,693 | 72% | 3.3 | 15 | \$2,843 | 86% | 2.5 |
| FE-Penn Power | VFD on HVAC Fan | Motor w/out VFD | Warehouse | Motors | ROB | motor | 15,693 | 72% | 3.3 | 15 | \$2,843 | 86% | 2.5 |
| FE-Penn Power | Elevators | Std. Eff Elevator | Warehouse | Other | ROB | measure | 89,016 | 0.3% | 0.00 | 15 | \$86 | 63% | 1.3 |
| FE-Penn Power | Variable Speed Drives on Process Equipment | Constant speed control | Warehouse | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 9% | 9.2 |
| FE-Penn Power | Variable Speed Drives on Process Equipment | Constant speed control | Warehouse | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 9% | 9.2 |
| FE-Penn Power | Auto Off Time Switch | Lighting w/ No Controls | Warehouse | Other Int. Lighting | Existing | building | 4,653 | 24% | 0.2 | 8 | \$755 | 13% | 0.6 |
| FE-Penn Power | Auto Off Time Switch | Lighting w/ No Controls | Warehouse | Other Int. Lighting | New | building | 4,653 | 7.0% | 0.07 | 8 | \$755 | 0% | 0.2 |
| FE-Penn Power | Central Lighting Control System | Lighting w/ No Controls | Warehouse | Other Int. Lighting | Existing | building | 4,653 | 38% | 0.4 | 8 | \$755 | 13% | 0.9 |
| FE-Penn Power | Central Lighting Control System | Lighting w/ No Controls | Warehouse | Other Int. Lighting | New | building | 4,653 | 14% | 0.1 | 8 | \$755 | 13% | 0.3 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 40W Incandescent Bulb | Warehouse | Other Int. Lighting | Early | lamp | 157 | 87% | 0.03 | 10 | \$30 | 14% | 2.1 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Warehouse | Other Int. Lighting | Early | lamp | 112 | 81% | 0.02 | 10 | \$30 | 11% | 1.4 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Warehouse | Other Int. Lighting | New | lamp | 85 | 81% | 0.02 | 10 | \$21 | 14% | 1.5 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Warehouse | Other Int. Lighting | New | lamp | 85 | 81% | 0.02 | 10 | \$23 | 14% | 1.4 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Warehouse | Other Int. Lighting | New | lamp | 85 | 81% | 0.02 | 10 | \$22 | 11% | 1.4 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Warehouse | Other Int. Lighting | ROB | lamp | 112 | 81% | 0.02 | 10 | \$21 | 14% | 2.0 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Warehouse | Other Int. Lighting | ROB | lamp | 112 | 81% | 0.02 | 10 | \$23 | 14% | 1.8 |
| FE-Penn Power | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Warehouse | Other Int. Lighting | ROB | lamp | 112 | 81% | 0.02 | 10 | \$22 | 11% | 1.9 |
| FE-Penn Power | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Warehouse | Other Int. Lighting | Early | lamp | 157 | 75% | 0.03 | 4 | \$73 | 24% | 0.4 |
| FE-Penn Power | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Warehouse | Other Int. Lighting | New | fixture | 171 | 65% | 0.02 | 13 | \$29 | 28% | 2.1 |
| FE-Penn Power | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Warehouse | Other Int. Lighting | New | lamp | 85 | 65% | 0.01 | 4 | \$29 | 28% | 0.4 |
| FE-Penn Power | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Warehouse | Other Int. Lighting | ROB | fixture | 225 | 65% | 0.03 | 13 | \$29 | 24% | 2.8 |
| FE-Penn Power | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Warehouse | Other Int. Lighting | ROB | lamp | 112 | 65% | 0.02 | 4 | \$29 | 24% | 0.6 |
| FE-Penn Power | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Warehouse | Other Int. Lighting | Early | lamp | 157 | 75% | 0.03 | 4 | \$3.2 | 24% | 8.4 |
| FE-Penn Power | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Warehouse | Other Int. Lighting | New | lamp | 85 | 65% | 0.01 | 4 | \$1.8 | 24% | 7.1 |
| FE-Penn Power | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Warehouse | Other Int. Lighting | ROB | lamp | 112 | 65% | 0.02 | 4 | \$1.8 | 24% | 9.4 |
| FE-Penn Power | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Warehouse | Other Int. Lighting | ROB | lamp | 112 | 65% | 0.02 | 4 | \$1.8 | 24% | 9.4 |
| FE-Penn Power | Exit Sign Retrofit: CFL replacing Incandescent | One 23W Single Sided Incandescent Exit Sign | Warehouse | Other Int. Lighting | Early | exit sign | 140 | 42% | 0.01 | 15 | \$48 | 22% | 0.7 |
| FE-Penn Power | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Warehouse | Other Int. Lighting | New | building | 4,653 | 10% | 0.1 | 15 | \$31,316 | 32% | 0.0 |
| FE-Penn Power | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Warehouse | Other Int. Lighting | New | building | 4,653 | 15% | 0.2 | 15 | \$78,291 | 32% | 0.0 |
| FE-Penn Power | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Warehouse | Other Int. Lighting | New | building | 4,653 | 30% | 0.3 | 15 | \$112,217 | 32% | 0.0 |
| FE-Penn Power | Indoor Daylight Sensors | Lighting w/ No Controls | Warehouse | Other Int. Lighting | Existing | building | 4,653 | 28% | 0.3 | 8 | \$3,718 | 13% | 0.1 |
| FE-Penn Power | Indoor Daylight Sensors | Lighting w/ No Controls | Warehouse | Other Int. Lighting | New | building | 4,653 | 4.1% | 0.04 | 8 | \$3,718 | 0% | 0.0 |
| FE-Penn Power | LED Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Warehouse | Other Int. Lighting | Early | sign | 153 | 87% | 0.02 | 15 | \$48 | 16% | 1.5 |
| FE-Penn Power | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Warehouse | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 1.6 |
| FE-Penn Power | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Warehouse | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 1.6 |
| FE-Penn Power | LED Task Lighting/Screw-In | 1 15W CFL bulb | Warehouse | Other Int. Lighting | Early | lamp | 43 | 33% | 0.00 | 9 | \$9.6 | 24% | 0.6 |
| FE-Penn Power | LED Task Lighting/Screw-In | 1 60W Incandescent Bulb | Warehouse | Other Int. Lighting | Early | lamp | 173 | 83% | 0.03 | 9 | \$9.6 | 24% | 6.3 |
| FE-Penn Power | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Warehouse | Other Int. Lighting | New | lamp | 94 | 77% | 0.01 | 9 | \$7.9 | 24% | 3.8 |
| FE-Penn Power | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Warehouse | Other Int. Lighting | New | lamp | 94 | 77% | 0.01 | 9 | \$7.9 | 24% | 3.8 |
| FE-Penn Power | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Warehouse | Other Int. Lighting | ROB | lamp | 124 | 77% | 0.02 | 9 | \$7.9 | 24% | 5.0 |
| FE-Penn Power | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Warehouse | Other Int. Lighting | ROB | lamp | 124 | 77% | 0.02 | 9 | \$7.9 | 24% | 5.0 |
| FE-Penn Power | Occupancy Sensor | Lighting w/ No Controls | Warehouse | Other Int. Lighting | Existing | building | 4,653 | 24% | 0.2 | 8 | \$1,138 | 12% | 0.4 |
| FE-Penn Power | Occupancy Sensor | Lighting w/ No Controls | Warehouse | Other Int. Lighting | New | building | 4,653 | 7.0% | 0.07 | 8 | \$1,138 | 0% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|--|---|-----------|---------------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Warehouse | Other Int. Lighting | Existing | building | 4,653 | 28% | 0.3 | 8 | \$3,718 | 12% | 0.1 |
| FE-Penn Power | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Warehouse | Other Int. Lighting | New | building | 4,653 | 4.1% | 0.04 | 8 | \$3,718 | 0% | 0.0 |
| FE-Penn Power | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Warehouse | Other Int. Lighting | Early | exit sign | 140 | 100% | 0.02 | 15 | \$173 | 26% | 0.4 |
| FE-Penn Power | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Warehouse | Other Int. Lighting | New | exit sign | 81 | 100% | 0.01 | 15 | \$148 | 31% | 0.3 |
| FE-Penn Power | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Warehouse | Other Int. Lighting | ROB | exit sign | 81 | 100% | 0.01 | 15 | \$148 | 26% | 0.3 |
| FE-Penn Power | Time Clock Control | Lighting w/ No Controls | Warehouse | Other Int. Lighting | Existing | building | 4,653 | 28% | 0.3 | 8 | \$755 | 13% | 0.7 |
| FE-Penn Power | Time Clock Control | Lighting w/ No Controls | Warehouse | Other Int. Lighting | New | building | 4,653 | 4.1% | 0.04 | 8 | \$755 | 0% | 0.1 |
| FE-Penn Power | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Warehouse | Plug Load | Existing | building | 2,913 | 46% | 0.5 | 5 | \$189 | 4% | 2.2 |
| FE-Penn Power | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Warehouse | Plug Load | New | building | 1,422 | 46% | 0.5 | 5 | \$189 | 4% | 1.5 |
| FE-Penn Power | Data Center - Server/Storage Consolidation | No Consolidation | Warehouse | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penn Power | Data Center - Server/Storage Consolidation | No Consolidation | Warehouse | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penn Power | Data Center - Server/Storage Virtualization | No Virtualization | Warehouse | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penn Power | Data Center - Server/Storage Virtualization | No Virtualization | Warehouse | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-Penn Power | Energy Star - Scanners | Std Scanner | Warehouse | Plug Load | New | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| FE-Penn Power | Energy Star - Scanners | Std Scanner | Warehouse | Plug Load | ROB | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| FE-Penn Power | Energy Star Dishwasher | Existing Dishwasher units | Warehouse | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,580 | 1% | 0.9 |
| FE-Penn Power | Energy Star Dishwasher | Standard Dishwasher unit | Warehouse | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 1% | 2.8 |
| FE-Penn Power | Energy Star Dishwasher | Standard Dishwasher unit | Warehouse | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 1% | 2.8 |
| FE-Penn Power | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Warehouse | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 16% | 0.1 |
| FE-Penn Power | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Warehouse | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 16% | 1.7 |
| FE-Penn Power | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Warehouse | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 16% | 1.7 |
| FE-Penn Power | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Warehouse | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 9% | 0.7 |
| FE-Penn Power | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Warehouse | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.5 |
| FE-Penn Power | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Warehouse | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.5 |
| FE-Penn Power | ENERGY STAR® Copiers | 10% Less Efficient Copier | Warehouse | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 17% | 0.0 |
| FE-Penn Power | ENERGY STAR® Copiers | One Conventional Copier | Warehouse | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 17% | 0.0 |
| FE-Penn Power | ENERGY STAR® Copiers | One Conventional Copier | Warehouse | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 17% | 0.0 |
| FE-Penn Power | ENERGY STAR® desktop | Standard computer | Warehouse | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 69% | 0.1 |
| FE-Penn Power | ENERGY STAR® desktop | Standard computer | Warehouse | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.2 |
| FE-Penn Power | ENERGY STAR® desktop | Standard computer | Warehouse | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.2 |
| FE-Penn Power | ENERGY STAR® Fax | 10% Less Efficient Fax | Warehouse | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 15% | 0.0 |
| FE-Penn Power | ENERGY STAR® Fax | One Conventional Fax | Warehouse | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.1 |
| FE-Penn Power | ENERGY STAR® Fax | One Conventional Fax | Warehouse | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.1 |
| FE-Penn Power | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Warehouse | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 69% | 0.0 |
| FE-Penn Power | ENERGY STAR® Monitors | One Conventional Monitor | Warehouse | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 69% | 0.0 |
| FE-Penn Power | ENERGY STAR® Monitors | One Conventional Monitor | Warehouse | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 69% | 0.0 |
| FE-Penn Power | ENERGY STAR® Printers | 10% Less Efficient Printer | Warehouse | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 43% | 0.0 |
| FE-Penn Power | ENERGY STAR® Printers | One Conventional Printer | Warehouse | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 43% | 0.3 |
| FE-Penn Power | ENERGY STAR® Printers | One Conventional Printer | Warehouse | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$130 | 43% | 0.3 |
| FE-Penn Power | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Warehouse | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 43% | 0.1 |
| FE-Penn Power | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Warehouse | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.6 |
| FE-Penn Power | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Warehouse | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.6 |
| FE-Penn Power | ENERGY STAR® Televisions | 10% Less Efficient Television | Warehouse | Plug Load | Early | Unit | 199 | 38% | 0.01 | 6 | \$672 | 41% | 0.0 |
| FE-Penn Power | ENERGY STAR® Televisions | One Conventional Television | Warehouse | Plug Load | New | Unit | 181 | 32% | 0.01 | 6 | \$206 | 41% | 0.1 |
| FE-Penn Power | ENERGY STAR® Televisions | One Conventional Television | Warehouse | Plug Load | ROB | Unit | 181 | 32% | 0.01 | 6 | \$206 | 41% | 0.1 |
| FE-Penn Power | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Warehouse | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 24% | 0.2 |
| FE-Penn Power | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Warehouse | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.5 |
| FE-Penn Power | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Warehouse | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.5 |
| FE-Penn Power | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Warehouse | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.2 |
| FE-Penn Power | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Warehouse | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.2 |
| FE-Penn Power | Network PC Power Management | No PC Power Management | Warehouse | Plug Load | Existing | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 6.8 |
| FE-Penn Power | Network PC Power Management | No PC Power Management | Warehouse | Plug Load | New | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 6.8 |
| FE-Penn Power | Smart Strip Plug Outlets | Standard plug strip/outlet | Warehouse | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.3 |
| FE-Penn Power | Smart Strip Plug Outlets | Standard plug strip/outlet | Warehouse | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.3 |
| FE-Penn Power | Smart Strip Plug Outlets | Standard plug strip/outlet | Warehouse | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| FE-Penn Power | Smart Strip Plug Outlets | Standard plug strip/outlet | Warehouse | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| FE-Penn Power | Smart Strip Plug Outlets | Standard plug strip/outlet | Warehouse | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| FE-Penn Power | Smart Strip Plug Outlets | Standard plug strip/outlet | Warehouse | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.0 |
| FE-Penn Power | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Warehouse | Plug Load | Existing | building | 2,913 | 46% | 0.5 | 5 | \$180 | 3% | 2.3 |
| FE-Penn Power | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Warehouse | Plug Load | New | building | 1,422 | 46% | 0.5 | 5 | \$180 | 3% | 1.6 |
| FE-Penn Power | Auto Closer on Refrigerator Door | Door w/out Autocloser | Warehouse | Refrigeration | Existing | building | 5,849 | 8.2% | 0.08 | 8 | \$642 | 40% | 0.3 |
| FE-Penn Power | Auto Closer on Refrigerator Door | Door w/out Autocloser | Warehouse | Refrigeration | Existing | building | 19,446 | 3.4% | 0.03 | 8 | \$476 | 40% | 0.4 |
| FE-Penn Power | Auto Closer on Refrigerator Door | Door w/out Autocloser | Warehouse | Refrigeration | New | building | 5,849 | 8.2% | 0.08 | 8 | \$642 | 40% | 0.3 |
| FE-Penn Power | Auto Closer on Refrigerator Door | Door w/out Autocloser | Warehouse | Refrigeration | New | building | 19,446 | 3.4% | 0.03 | 8 | \$476 | 40% | 0.4 |
| FE-Penn Power | Door Gasket- Freezer | Door w/out Gasket | Warehouse | Refrigeration | Existing | building | 5,849 | 4.4% | 0.04 | 4 | \$66 | 29% | 0.8 |
| FE-Penn Power | Door Gasket- Freezer | Door w/out Gasket | Warehouse | Refrigeration | New | building | 5,849 | 4.4% | 0.04 | 4 | \$66 | 29% | 0.8 |
| FE-Penn Power | Door Gasket- Refrigerator | Door w/out Gasket | Warehouse | Refrigeration | Existing | building | 19,446 | 1.1% | 0.01 | 4 | \$66 | 45% | 0.5 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|---|-----------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Door Gasket- Refrigerator | Door w/out Gasket | Warehouse | Refrigeration | New | building | 19,446 | 1.1% | 0.01 | 4 | \$66 | 45% | 0.5 |
| FE-Penn Power | eCube | Refrigeration unit w/out eCube | Warehouse | Refrigeration | Existing | building | 19,446 | 15% | 0.2 | 15 | \$144 | 57% | 9.0 |
| FE-Penn Power | eCube | Refrigeration unit w/out eCube | Warehouse | Refrigeration | New | building | 19,446 | 15% | 0.2 | 15 | \$144 | 57% | 9.0 |
| FE-Penn Power | Efficient compressor motor | Base Refrigeration System - Grocery | Warehouse | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.4 |
| FE-Penn Power | Efficient compressor motor | Base Refrigeration System - Grocery | Warehouse | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.4 |
| FE-Penn Power | Efficient compressor motor | Base Refrigeration System - Grocery | Warehouse | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.3 |
| FE-Penn Power | Efficient compressor motor | Base Refrigeration System - Grocery | Warehouse | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.4 |
| FE-Penn Power | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Warehouse | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.4 |
| FE-Penn Power | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Warehouse | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.2 |
| FE-Penn Power | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Warehouse | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.2 |
| FE-Penn Power | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Warehouse | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.2 |
| FE-Penn Power | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Warehouse | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.6 |
| FE-Penn Power | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Warehouse | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.6 |
| FE-Penn Power | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Warehouse | Refrigeration | Existing | building | 19,446 | 0.6% | 0.01 | 10 | \$369 | 77% | 0.1 |
| FE-Penn Power | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Warehouse | Refrigeration | New | building | 19,446 | 0.6% | 0.01 | 10 | \$369 | 77% | 0.1 |
| FE-Penn Power | Floating head pressure controller | System w/out FHPC | Warehouse | Refrigeration | Existing | building | 5,849 | 4.0% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penn Power | Floating head pressure controller | System w/out FHPC | Warehouse | Refrigeration | Existing | building | 19,446 | 0.4% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penn Power | Floating head pressure controller | System w/out FHPC | Warehouse | Refrigeration | New | building | 5,849 | 4.0% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penn Power | Floating head pressure controller | System w/out FHPC | Warehouse | Refrigeration | New | building | 19,446 | 0.4% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| FE-Penn Power | High Efficiency Commercial Freezer | Std. Commercial Freezer | Warehouse | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 86% | 0.3 |
| FE-Penn Power | High Efficiency Commercial Freezer | Std. Commercial Freezer | Warehouse | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 3.2 |
| FE-Penn Power | High Efficiency Commercial Freezer | Std. Commercial Freezer | Warehouse | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 3.2 |
| FE-Penn Power | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Warehouse | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 2% | 0.1 |
| FE-Penn Power | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Warehouse | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.7 |
| FE-Penn Power | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Warehouse | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.7 |
| FE-Penn Power | High Efficiency Ice Maker | Exisiting Standard Efficiency Ice Maker in Pennsylvania | Warehouse | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 73% | 0.1 |
| FE-Penn Power | High Efficiency Ice Maker | Standard code minimum Ice Maker | Warehouse | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.1 |
| FE-Penn Power | High Efficiency Ice Maker | Standard code minimum Ice Maker | Warehouse | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.1 |
| FE-Penn Power | High Efficiency Ice Making Head | Standard Ice Making Head | Warehouse | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.2 |
| FE-Penn Power | High Efficiency Ice Making Head | Standard Ice Making Head | Warehouse | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.2 |
| FE-Penn Power | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Warehouse | Refrigeration | Early | Fixture | 373 | 56% | 0.02 | 8 | \$448 | 47% | 0.1 |
| FE-Penn Power | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Warehouse | Refrigeration | New | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 47% | 0.3 |
| FE-Penn Power | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Warehouse | Refrigeration | ROB | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 47% | 0.3 |
| FE-Penn Power | Quick acting freezer doors | Std. Freezer Doors | Warehouse | Refrigeration | Existing | building | 5,849 | 13% | 0.1 | 10 | \$2,320 | 56% | 0.1 |
| FE-Penn Power | Quick acting freezer doors | Std. Freezer Doors | Warehouse | Refrigeration | New | building | 5,849 | 13% | 0.1 | 10 | \$2,320 | 56% | 0.1 |
| FE-Penn Power | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Warehouse | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 30% | 0.3 |
| FE-Penn Power | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Warehouse | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.3 |
| FE-Penn Power | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Warehouse | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.3 |
| FE-Penn Power | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 30% | 1.3 |
| FE-Penn Power | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 2.2 |
| FE-Penn Power | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 2.2 |
| FE-Penn Power | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 30% | 1.3 |
| FE-Penn Power | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 3.0 |
| FE-Penn Power | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 3.0 |
| FE-Penn Power | Refrigeration Commissioning | Non-commissioned refrigeration system | Warehouse | Refrigeration | Existing | building | 29,243 | 9.5% | 0.10 | 3 | \$4,963 | 85% | 0.1 |
| FE-Penn Power | Refrigeration Commissioning | Non-commissioned refrigeration system | Warehouse | Refrigeration | New | building | 29,243 | 9.5% | 0.10 | 3 | \$4,963 | 85% | 0.1 |
| FE-Penn Power | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Warehouse | Refrigeration | Existing | building | 5,849 | 11% | 0.1 | 4 | \$80 | 22% | 1.6 |
| FE-Penn Power | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Warehouse | Refrigeration | Existing | building | 19,446 | 1.5% | 0.02 | 4 | \$80 | 22% | 0.6 |
| FE-Penn Power | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Warehouse | Refrigeration | New | building | 5,849 | 11% | 0.1 | 4 | \$80 | 22% | 1.6 |
| FE-Penn Power | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Warehouse | Refrigeration | New | building | 19,446 | 1.5% | 0.02 | 4 | \$80 | 22% | 0.6 |
| FE-Penn Power | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Warehouse | Refrigeration | Existing | building | 5,849 | 2.6% | 0.03 | 11 | \$152 | 80% | 0.4 |
| FE-Penn Power | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Warehouse | Refrigeration | New | building | 5,849 | 2.6% | 0.03 | 11 | \$152 | 80% | 0.4 |
| FE-Penn Power | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Warehouse | Refrigeration | Existing | building | 19,446 | 2.0% | 0.02 | 11 | \$152 | 80% | 0.9 |
| FE-Penn Power | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Warehouse | Refrigeration | New | building | 19,446 | 2.0% | 0.02 | 11 | \$152 | 80% | 0.9 |
| FE-Penn Power | VSD Controlled Compressor | Compressor w/out VSD | Warehouse | Refrigeration | Early | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |
| FE-Penn Power | VSD Controlled Compressor | Compressor w/out VSD | Warehouse | Refrigeration | New | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |
| FE-Penn Power | VSD Controlled Compressor | Compressor w/out VSD | Warehouse | Refrigeration | ROB | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |
| FE-Penn Power | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Warehouse | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$269 | 35% | 0.7 |
| FE-Penn Power | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Warehouse | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$269 | 35% | 0.7 |
| FE-Penn Power | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Warehouse | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 2.4 |
| FE-Penn Power | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Warehouse | Refrigeration | New | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 2.3 |
| FE-Penn Power | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Warehouse | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 2.4 |
| FE-Penn Power | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Warehouse | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 2.3 |
| FE-Penn Power | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 35% | 1.9 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|---|-----------|-----------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 35% | 1.8 |
| FE-Penn Power | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 3.9 |
| FE-Penn Power | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 3.7 |
| FE-Penn Power | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 3.9 |
| FE-Penn Power | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 3.7 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Warehouse | Space Heating | Existing | building | 10,924 | 7.1% | 0.07 | 6 | \$19,655 | 82% | 0.0 |
| FE-Penn Power | Adding reflective roof treatment | Std color roof | Warehouse | Space Heating | New | building | 10,924 | 7.1% | 0.07 | 6 | \$19,655 | 82% | 0.0 |
| FE-Penn Power | Adding window shade film | No shade film | Warehouse | Space Heating | Existing | building | 10,924 | 1.3% | 0.4 | 10 | \$133 | 13% | 2.0 |
| FE-Penn Power | Adding window shade film | No shade film | Warehouse | Space Heating | New | building | 10,924 | 1.3% | 0.4 | 10 | \$133 | 13% | 2.0 |
| FE-Penn Power | Adding window shade screen | No shade screen | Warehouse | Space Heating | Existing | building | 10,924 | 1.1% | 0.01 | 10 | \$51 | 13% | 0.8 |
| FE-Penn Power | Adding window shade screen | No shade screen | Warehouse | Space Heating | New | building | 10,924 | 1.1% | 0.01 | 10 | \$51 | 13% | 0.8 |
| FE-Penn Power | Automated control system | Manual Controls | Warehouse | Space Heating | Existing | building | 10,924 | 17% | 0.2 | 15 | \$11,959 | 51% | 0.1 |
| FE-Penn Power | Automated control system | Manual Controls | Warehouse | Space Heating | New | building | 10,924 | 17% | 0.2 | 15 | \$11,959 | 94% | 0.1 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Warehouse | Space Heating | Existing | building | 10,924 | 5.9% | 0.06 | 15 | \$27,901 | 71% | 0.0 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Warehouse | Space Heating | New | building | 10,924 | 3.7% | 0.04 | 15 | \$26,520 | 94% | 0.0 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Warehouse | Space Heating | Existing | building | 10,924 | 1.4% | 0.04 | 15 | \$87 | 20% | 1.0 |
| FE-Penn Power | Duct Insulation, Add R8 | No Insulation | Warehouse | Space Heating | New | building | 10,924 | 1.4% | 0.04 | 15 | \$87 | 10% | 1.0 |
| FE-Penn Power | Efficient Unit Heating System | Existing Unit Heaters in PA | Warehouse | Space Heating | Early | heater | 22,918 | 23% | 0.04 | 15 | \$3,289 | 83% | 0.6 |
| FE-Penn Power | Efficient Unit Heating System | Std. Unit Heater | Warehouse | Space Heating | New | heater | 20,340 | 13% | 0.02 | 15 | \$1,991 | 83% | 0.5 |
| FE-Penn Power | Efficient Unit Heating System | Std. Unit Heater | Warehouse | Space Heating | ROB | heater | 20,340 | 13% | 0.02 | 15 | \$1,991 | 83% | 0.5 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Warehouse | Space Heating | Existing | building | 10,924 | 7.1% | 0.07 | 15 | \$48,456 | 25% | 0.0 |
| FE-Penn Power | Green Roof (New construction or roof replacement) | Std Roof | Warehouse | Space Heating | New | building | 10,924 | 7.1% | 0.07 | 15 | \$48,456 | 35% | 0.0 |
| FE-Penn Power | Hi Eff HVAC System Design | No HVAC Design | Warehouse | Space Heating | New | building | 10,924 | 12% | 0.1 | 10 | \$123,174 | 51% | 0.0 |
| FE-Penn Power | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Warehouse | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 0.8 |
| FE-Penn Power | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Warehouse | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 0.8 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Warehouse | Space Heating | Existing | building | 10,924 | 1.1% | 0.01 | 10 | \$7,735 | 81% | 0.0 |
| FE-Penn Power | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Warehouse | Space Heating | New | building | 10,924 | 1.1% | 0.01 | 10 | \$7,735 | 81% | 0.0 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Warehouse | Space Heating | Existing | building | 10,924 | 3.6% | 0.04 | 11 | \$286 | 49% | 0.5 |
| FE-Penn Power | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Warehouse | Space Heating | New | building | 10,924 | 3.1% | 0.03 | 11 | \$146 | 49% | 0.8 |
| FE-Penn Power | Re-Commissioning (Existing Construction) | No Re-Commissioning | Warehouse | Space Heating | Existing | building | 10,924 | 16% | 0.2 | 5 | \$8,619 | 86% | 0.0 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Warehouse | Space Heating | Existing | building | 10,924 | 19% | 0.2 | 15 | \$6,551 | 26% | 0.1 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Warehouse | Space Heating | New | building | 10,924 | 0.6% | 0.01 | 15 | \$5,025 | 94% | 0.0 |
| FE-Penn Power | Green LED Traffic Light | Green Incandescent Traffic Light | Warehouse | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 0% | 1.0 |
| FE-Penn Power | Green LED Traffic Light | Green Incandescent Traffic Light | Warehouse | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| FE-Penn Power | Green LED Traffic Light | Green Incandescent Traffic Light | Warehouse | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| FE-Penn Power | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Warehouse | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 0% | 2.6 |
| FE-Penn Power | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Warehouse | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-Penn Power | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Warehouse | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-Penn Power | Induction Street Lighting | One 100W HPS Street Light Fixture | Warehouse | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 0% | 0.2 |
| FE-Penn Power | Induction Street Lighting | One 100W HPS Street Light Fixture | Warehouse | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.4 |
| FE-Penn Power | Induction Street Lighting | One 100W HPS Street Light Fixture | Warehouse | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.4 |
| FE-Penn Power | LED Street Lighting | One 100W HPS Street Light | Warehouse | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 0% | 0.2 |
| FE-Penn Power | LED Street Lighting | One 100W HPS Street Light | Warehouse | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-Penn Power | LED Street Lighting | One 100W HPS Street Light | Warehouse | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-Penn Power | Red LED Traffic Light | One Red Incandescent Traffic Light | Warehouse | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 0% | 1.4 |
| FE-Penn Power | Red LED Traffic Light | One Red Incandescent Traffic Light | Warehouse | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.2 |
| FE-Penn Power | Red LED Traffic Light | One Red Incandescent Traffic Light | Warehouse | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.2 |
| FE-Penn Power | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Warehouse | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 0% | 0.1 |
| FE-Penn Power | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Warehouse | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-Penn Power | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Warehouse | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-Penn Power | Demand controlled Circulating Systems | Constant circulation system | Warehouse | Water Heating | Existing | building | 2,427 | 20% | 0.2 | 15 | \$440 | 59% | 0.8 |
| FE-Penn Power | Demand controlled Circulating Systems | Constant circulation system | Warehouse | Water Heating | New | building | 2,427 | 20% | 0.2 | 15 | \$440 | 59% | 0.8 |
| FE-Penn Power | Drainwater Heat Recovery Water Heater | No heat recovery | Warehouse | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.5 |
| FE-Penn Power | Drainwater Heat Recovery Water Heater | No heat recovery | Warehouse | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.5 |
| FE-Penn Power | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Warehouse | Water Heating | Existing | building | 2,427 | 5.9% | 0.06 | 12 | \$14 | 85% | 6.6 |
| FE-Penn Power | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Warehouse | Water Heating | New | building | 2,427 | 5.9% | 0.06 | 12 | \$4.0 | 85% | 23.2 |
| FE-Penn Power | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Warehouse | Water Heating | Early | water heater | 7,897 | 66% | 0.9 | 10 | \$1,187 | 29% | 1.9 |
| FE-Penn Power | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Warehouse | Water Heating | Early | water heater | 7,897 | 66% | 0.9 | 10 | \$1,187 | 29% | 1.9 |
| FE-Penn Power | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Warehouse | Water Heating | New | water heater | 7,897 | 66% | 0.9 | 10 | \$1,187 | 29% | 1.9 |
| FE-Penn Power | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Warehouse | Water Heating | New | water heater | 7,897 | 66% | 0.9 | 10 | \$1,187 | 29% | 1.9 |
| FE-Penn Power | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Warehouse | Water Heating | ROB | water heater | 7,678 | 65% | 0.9 | 10 | \$1,187 | 29% | 1.8 |
| FE-Penn Power | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Warehouse | Water Heating | ROB | water heater | 7,678 | 65% | 0.9 | 10 | \$1,187 | 29% | 1.8 |
| FE-Penn Power | Heat Recovery Unit | Base Water Heating | Warehouse | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.3 |
| FE-Penn Power | Heat Recovery Unit | Base Water Heating | Warehouse | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.3 |
| FE-Penn Power | Heat Trap | No Heat Trap | Warehouse | Water Heating | New | building | 2,427 | 22% | 0.2 | 11 | \$2.5 | 21% | 133.9 |
| FE-Penn Power | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Warehouse | Water Heating | Early | water heater | 7,897 | 5.9% | 0.08 | 15 | \$307 | 36% | 0.9 |
| FE-Penn Power | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Warehouse | Water Heating | Early | water heater | 7,897 | 5.9% | 0.08 | 15 | \$307 | 36% | 0.9 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|--|--|-----------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Warehouse | Water Heating | New | water heater | 7,678 | 3.2% | 0.04 | 15 | \$307 | 36% | 0.5 |
| FE-Penn Power | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Warehouse | Water Heating | New | water heater | 7,678 | 3.2% | 0.04 | 15 | \$307 | 36% | 0.5 |
| FE-Penn Power | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Warehouse | Water Heating | ROB | water heater | 7,678 | 3.2% | 0.04 | 15 | \$307 | 36% | 0.5 |
| FE-Penn Power | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Warehouse | Water Heating | ROB | water heater | 7,678 | 3.2% | 0.04 | 15 | \$307 | 36% | 0.5 |
| FE-Penn Power | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Warehouse | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$466 | 81% | 32.0 |
| FE-Penn Power | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Warehouse | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 16.7 |
| FE-Penn Power | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Warehouse | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 16.7 |
| FE-Penn Power | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Warehouse | Water Heating | Existing | building | 2,427 | 0.8% | 0.01 | 13 | \$3.0 | 30% | 4.4 |
| FE-Penn Power | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Warehouse | Water Heating | New | building | 2,427 | 0.8% | 0.01 | 13 | \$3.0 | 0% | 4.4 |
| FE-Penn Power | Hot Water Circulation Pump Time-Clock | Constant circulation system | Warehouse | Water Heating | Existing | building | 2,427 | 5.3% | 0.05 | 10 | \$9.8 | 72% | 7.6 |
| FE-Penn Power | Hot Water Circulation Pump Time-Clock | Constant circulation system | Warehouse | Water Heating | New | building | 2,427 | 5.3% | 0.05 | 10 | \$9.8 | 72% | 7.6 |
| FE-Penn Power | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Warehouse | Water Heating | Existing | building | 2,427 | 1.2% | 0.01 | 7 | \$22 | 35% | 0.6 |
| FE-Penn Power | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Warehouse | Water Heating | New | building | 2,427 | 1.1% | 0.01 | 7 | \$0.5 | 35% | 24.5 |
| FE-Penn Power | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Warehouse | Water Heating | Existing | building | 2,427 | 8.0% | 0.08 | 5 | \$300 | 0% | 0.2 |
| FE-Penn Power | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Warehouse | Water Heating | New | building | 2,427 | 5.3% | 0.05 | 5 | \$194 | 0% | 0.2 |
| FE-Penn Power | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Warehouse | Water Heating | Existing | building | 2,427 | 6.5% | 0.07 | 9 | \$25 | 2% | 3.4 |
| FE-Penn Power | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Warehouse | Water Heating | New | building | 2,427 | 6.5% | 0.07 | 9 | \$6.0 | 2% | 14.1 |
| FE-Penn Power | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Warehouse | Water Heating | Early | water heater | 7,897 | 52% | 0.3 | 15 | \$6,222 | 14% | 0.3 |
| FE-Penn Power | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Warehouse | Water Heating | New | water heater | 7,678 | 51% | 0.3 | 15 | \$6,222 | 14% | 0.3 |
| FE-Penn Power | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Warehouse | Water Heating | ROB | water heater | 7,678 | 51% | 0.3 | 15 | \$6,222 | 14% | 0.3 |
| FE-Penn Power | Ultrasonic Faucet Control | Manual Faucet Control | Warehouse | Water Heating | Existing | building | 2,427 | 3.1% | 0.03 | 10 | \$420 | 54% | 0.1 |
| FE-Penn Power | Ultrasonic Faucet Control | Manual Faucet Control | Warehouse | Water Heating | New | building | 2,427 | 3.1% | 0.03 | 10 | \$420 | 54% | 0.1 |
| FE-Penn Power | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Warehouse | Water Heating | Existing | building | 2,427 | 2.2% | 0.02 | 4 | \$28 | 35% | 0.6 |
| FE-Penn Power | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Warehouse | Water Heating | New | building | 2,427 | 2.3% | 0.02 | 4 | \$28 | 35% | 0.6 |
| FE-WPP | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Education | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.0 |
| FE-WPP | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Education | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.0 |
| FE-WPP | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Education | Cooking | Early | steamer | 43 | 48% | 0.00 | 12 | \$5,053 | 81% | 0.0 |
| FE-WPP | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Education | Cooking | New | steamer | 34 | 34% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-WPP | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Education | Cooking | ROB | steamer | 34 | 34% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-WPP | Electric combination oven (Energy Star) | Standard Oven | Education | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.8 |
| FE-WPP | Electric combination oven (Energy Star) | Standard Oven | Education | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.8 |
| FE-WPP | Electric Convection Oven | Conventional convection oven w/ 65% efficiency | Education | Cooking | Early | oven | 6,481 | 37% | 0.5 | 12 | \$4,119 | 81% | 0.3 |
| FE-WPP | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Education | Cooking | New | oven | 5,186 | 22% | 0.2 | 12 | \$1,113 | 81% | 0.5 |
| FE-WPP | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Education | Cooking | ROB | oven | 5,186 | 22% | 0.2 | 12 | \$1,113 | 81% | 0.5 |
| FE-WPP | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Education | Cooking | Early | fryer | 4,591 | 24% | 0.2 | 12 | \$9,241 | 86% | 0.1 |
| FE-WPP | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Education | Cooking | New | fryer | 4,591 | 24% | 0.2 | 12 | \$2,366 | 86% | 0.2 |
| FE-WPP | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Education | Cooking | ROB | fryer | 4,591 | 24% | 0.2 | 12 | \$2,366 | 86% | 0.2 |
| FE-WPP | High Efficiency Griddle (ENERGY STAR) | Efficiency code minimum griddle (70% eff) | Education | Cooking | Early | griddle | 8,725 | 67% | 1.1 | 12 | \$4,977 | 86% | 0.6 |
| FE-WPP | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Education | Cooking | New | griddle | 5,556 | 48% | 0.5 | 12 | \$1,700 | 86% | 0.8 |
| FE-WPP | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Education | Cooking | ROB | griddle | 5,556 | 48% | 0.5 | 12 | \$1,700 | 86% | 0.8 |
| FE-WPP | High Efficiency Induction Cooking | Standard Cooking | Education | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-WPP | High Efficiency Induction Cooking | Standard Cooking | Education | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Education | Cooling Central | Existing | building | 9,479 | 7.0% | 0.07 | 6 | \$19,275 | 82% | 0.0 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Education | Cooling Central | New | building | 9,479 | 7.0% | 0.07 | 6 | \$19,275 | 82% | 0.0 |
| FE-WPP | Adding window shade film | No shade film | Education | Cooling Central | Existing | building | 9,479 | 1.3% | 0.4 | 10 | \$115 | 12% | 2.5 |
| FE-WPP | Adding window shade film | No shade film | Education | Cooling Central | New | building | 9,479 | 1.3% | 0.4 | 10 | \$115 | 13% | 2.5 |
| FE-WPP | Adding window shade screen | No shade screen | Education | Cooling Central | Existing | building | 9,479 | 1.0% | 0.01 | 10 | \$45 | 13% | 0.9 |
| FE-WPP | Adding window shade screen | No shade screen | Education | Cooling Central | New | building | 9,479 | 1.1% | 0.01 | 10 | \$45 | 13% | 0.9 |
| FE-WPP | Automated control system | Manual Controls | Education | Cooling Central | Existing | building | 9,479 | 17% | 0.2 | 15 | \$10,377 | 51% | 0.1 |
| FE-WPP | Automated control system | Manual Controls | Education | Cooling Central | New | building | 9,479 | 17% | 0.2 | 15 | \$10,377 | 94% | 0.1 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Education | Cooling Central | Existing | building | 9,479 | 1.6% | 0.02 | 15 | \$26,439 | 71% | 0.0 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Education | Cooling Central | New | building | 9,479 | 0.5% | 0.01 | 15 | \$25,131 | 94% | 0.0 |
| FE-WPP | Chiller Tuneup/Diagnostics | No tuneup | Education | Cooling Central | Existing | building | 9,479 | 8.0% | 0.08 | 10 | \$24,204 | 59% | 0.0 |
| FE-WPP | Chiller Tuneup/Diagnostics | No tuneup | Education | Cooling Central | New | building | 9,479 | 8.0% | 0.08 | 10 | \$24,204 | 59% | 0.0 |
| FE-WPP | Commercial energy recovery ventilation systems | No Commercial Recovery System | Education | Cooling Central | Existing | building | 9,479 | 16% | 0.2 | 14 | \$8,566 | 71% | 0.1 |
| FE-WPP | Cooling Tower Optimization | No Cooling Tower Optimization | Education | Cooling Central | Existing | building | 9,479 | 20% | 0.2 | 10 | \$58 | 69% | 13.5 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Education | Cooling Central | Existing | building | 9,479 | 1.4% | 0.04 | 15 | \$75 | 20% | 1.3 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Education | Cooling Central | New | building | 9,479 | 1.4% | 0.04 | 15 | \$75 | 10% | 1.3 |
| FE-WPP | Facility Commissioning | No Facility Commissioning | Education | Cooling Central | New | building | 9,479 | 16% | 0.2 | 10 | \$5,234 | 89% | 0.1 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Education | Cooling Central | Existing | building | 9,479 | 7.0% | 0.07 | 15 | \$42,046 | 25% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|--|--|-----------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Education | Cooling Central | New | building | 9,479 | 7.0% | 0.07 | 15 | \$42,046 | 35% | 0.0 |
| FE-WPP | Hi Eff HVAC System Design | No HVAC Design | Education | Cooling Central | New | building | 9,479 | 14% | 0.1 | 10 | \$77,679 | 51% | 0.0 |
| FE-WPP | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Education | Cooling Central | Early | ton | 5,660 | 24% | 0.5 | 15 | \$108,550 | 88% | 0.0 |
| FE-WPP | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Education | Cooling Central | New | ton | 4,627 | 6.7% | 0.1 | 15 | \$12,927 | 88% | 0.0 |
| FE-WPP | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Education | Cooling Central | ROB | ton | 4,627 | 6.7% | 0.1 | 15 | \$12,927 | 88% | 0.0 |
| FE-WPP | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Education | Cooling Central | Early | ton | 8,457 | 23% | 0.7 | 15 | \$140,105 | 88% | 0.0 |
| FE-WPP | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Education | Cooling Central | New | ton | 6,804 | 4.8% | 0.1 | 15 | \$9,336 | 88% | 0.0 |
| FE-WPP | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Education | Cooling Central | ROB | ton | 6,804 | 4.8% | 0.1 | 15 | \$9,336 | 88% | 0.0 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Education | Cooling Central | Early | ton | 69,231 | 26% | 6.2 | 15 | \$105,354 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Education | Cooling Central | New | ton | 60,320 | 15% | 3.1 | 15 | \$30,530 | 88% | 0.2 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Education | Cooling Central | ROB | ton | 60,320 | 15% | 3.1 | 15 | \$30,530 | 88% | 0.2 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Education | Cooling Central | Early | ton | 103,689 | 23% | 8.2 | 15 | \$154,107 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Education | Cooling Central | New | ton | 95,252 | 16% | 5.3 | 15 | \$27,646 | 88% | 0.4 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Education | Cooling Central | ROB | ton | 95,252 | 16% | 5.3 | 15 | \$27,646 | 88% | 0.4 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Education | Cooling Central | Early | ton | 172,208 | 23% | 13.5 | 15 | \$302,924 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Education | Cooling Central | New | ton | 155,861 | 14% | 7.8 | 15 | \$115,432 | 88% | 0.2 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Education | Cooling Central | ROB | ton | 155,861 | 14% | 7.8 | 15 | \$115,432 | 88% | 0.2 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Education | Cooling Central | Early | ton | 206,650 | 23% | 16.2 | 15 | \$350,154 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Education | Cooling Central | New | ton | 187,033 | 14% | 9.4 | 15 | \$120,406 | 88% | 0.2 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Education | Cooling Central | ROB | ton | 187,033 | 14% | 9.4 | 15 | \$120,406 | 88% | 0.2 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Education | Cooling Central | Early | ton | 45,806 | 29% | 4.7 | 15 | \$83,632 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Education | Cooling Central | New | ton | 35,568 | 8.9% | 1.1 | 15 | \$40,211 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Education | Cooling Central | ROB | ton | 35,568 | 8.9% | 1.1 | 15 | \$40,211 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Education | Cooling Central | Early | ton | 78,706 | 35% | 9.5 | 15 | \$132,173 | 88% | 0.2 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Education | Cooling Central | New | ton | 58,701 | 13% | 2.6 | 15 | \$39,556 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Education | Cooling Central | ROB | ton | 58,701 | 13% | 2.6 | 15 | \$39,556 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Education | Cooling Central | Early | ton | 131,405 | 39% | 17.9 | 15 | \$187,029 | 88% | 0.2 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Education | Cooling Central | New | ton | 93,690 | 15% | 4.8 | 15 | \$33,554 | 88% | 0.3 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Education | Cooling Central | ROB | ton | 93,690 | 15% | 4.8 | 15 | \$33,554 | 88% | 0.3 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Education | Cooling Central | Early | ton | 22,994 | 30% | 2.4 | 15 | \$32,398 | 88% | 0.2 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Education | Cooling Central | New | ton | 18,218 | 11% | 0.7 | 15 | \$7,188 | 88% | 0.2 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Education | Cooling Central | ROB | ton | 18,218 | 11% | 0.7 | 15 | \$7,188 | 88% | 0.2 |
| FE-WPP | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Education | Cooling Central | Existing | building | 9,479 | 3.5% | 0.04 | 10 | \$1,851 | 81% | 0.1 |
| FE-WPP | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) HVAC system w/ Manual Thermostat (Code Min Eff) | Education | Cooling Central | New | building | 9,479 | 3.5% | 0.04 | 10 | \$1,851 | 81% | 0.1 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Education | Cooling Central | Existing | building | 9,479 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.3 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Education | Cooling Central | New | building | 9,479 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.5 |
| FE-WPP | Re-Commissioning (Existing Construction) | No Re-Commissioning | Education | Cooling Central | Existing | building | 9,479 | 16% | 0.2 | 5 | \$9,680 | 86% | 0.0 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Education | Cooling Central | Existing | building | 9,479 | 3.6% | 0.04 | 15 | \$6,377 | 26% | 0.0 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Education | Cooling Central | New | building | 9,479 | 0.1% | 0.00 | 15 | \$4,891 | 94% | 0.0 |
| FE-WPP | <65k BTU/hr 14 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Education | Cooling Unitary | Early | ton | 1,227 | 16% | 0.1 | 15 | \$1,545 | 29% | 0.1 |
| FE-WPP | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Education | Cooling Unitary | New | ton | 1,112 | 7.1% | 0.06 | 15 | \$339 | 29% | 0.3 |
| FE-WPP | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Education | Cooling Unitary | ROB | ton | 1,112 | 7.1% | 0.06 | 15 | \$339 | 29% | 0.3 |
| FE-WPP | <65k BTU/hr 15 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Education | Cooling Unitary | Early | ton | 1,227 | 22% | 0.2 | 15 | \$1,821 | 30% | 0.2 |
| FE-WPP | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Education | Cooling Unitary | New | ton | 1,112 | 13% | 0.1 | 15 | \$714 | 30% | 0.2 |
| FE-WPP | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Education | Cooling Unitary | ROB | ton | 1,112 | 13% | 0.1 | 15 | \$714 | 30% | 0.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|--|-----------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | <65k BTU/hr 16 SEER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Education | Cooling Unitary | Early | ton | 1,227 | 26% | 0.2 | 15 | \$2,098 | 31% | 0.2 |
| FE-WPP | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Education | Cooling Unitary | New | ton | 1,112 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.2 |
| FE-WPP | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Education | Cooling Unitary | ROB | ton | 1,112 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.2 |
| FE-WPP | >760k min 10.2 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Education | Cooling Unitary | Early | ton | 31,052 | 3.7% | 0.9 | 15 | \$68,066 | 56% | 0.0 |
| FE-WPP | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Education | Cooling Unitary | New | ton | 31,450 | 4.9% | 1.2 | 15 | \$6,231 | 56% | 0.3 |
| FE-WPP | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Education | Cooling Unitary | ROB | ton | 31,450 | 4.9% | 1.2 | 15 | \$6,231 | 56% | 0.3 |
| FE-WPP | 135-240k min 12 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Education | Cooling Unitary | Early | ton | 7,640 | 18% | 1.0 | 15 | \$18,135 | 79% | 0.1 |
| FE-WPP | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Education | Cooling Unitary | New | ton | 6,950 | 10.0% | 0.5 | 15 | \$1,948 | 79% | 0.4 |
| FE-WPP | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Education | Cooling Unitary | ROB | ton | 6,950 | 10.0% | 0.5 | 15 | \$1,948 | 79% | 0.4 |
| FE-WPP | 240k-760k min 11 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Education | Cooling Unitary | Early | ton | 20,429 | 9.0% | 1.4 | 15 | \$44,809 | 66% | 0.0 |
| FE-WPP | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Education | Cooling Unitary | New | ton | 20,480 | 9.3% | 1.4 | 15 | \$4,813 | 66% | 0.4 |
| FE-WPP | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Education | Cooling Unitary | ROB | ton | 20,480 | 9.3% | 1.4 | 15 | \$4,813 | 66% | 0.4 |
| FE-WPP | 65k-135k BTU/hr 12 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Education | Cooling Unitary | Early | ton | 4,504 | 17% | 0.6 | 15 | \$10,946 | 86% | 0.1 |
| FE-WPP | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Education | Cooling Unitary | New | ton | 4,014 | 6.7% | 0.2 | 15 | \$1,392 | 86% | 0.2 |
| FE-WPP | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Education | Cooling Unitary | ROB | ton | 4,014 | 6.7% | 0.2 | 15 | \$1,392 | 86% | 0.2 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Education | Cooling Unitary | Existing | building | 140,710 | 7.1% | 0.07 | 6 | \$19,275 | 82% | 0.1 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Education | Cooling Unitary | New | building | 140,710 | 7.0% | 0.07 | 6 | \$19,275 | 82% | 0.1 |
| FE-WPP | Adding window shade film | No shade film | Education | Cooling Unitary | Existing | building | 140,710 | 1.3% | 0.4 | 10 | \$1,712 | 12% | 0.5 |
| FE-WPP | Adding window shade film | No shade film | Education | Cooling Unitary | New | building | 140,710 | 1.3% | 0.4 | 10 | \$1,712 | 13% | 0.5 |
| FE-WPP | Adding window shade screen | No shade screen | Education | Cooling Unitary | Existing | building | 140,710 | 1.1% | 0.01 | 10 | \$662 | 12% | 0.8 |
| FE-WPP | Adding window shade screen | No shade screen | Education | Cooling Unitary | New | building | 140,710 | 1.1% | 0.01 | 10 | \$662 | 13% | 0.8 |
| FE-WPP | Automated control system | Manual Controls | Education | Cooling Unitary | Existing | building | 140,710 | 17% | 0.2 | 15 | \$154,044 | 51% | 0.1 |
| FE-WPP | Automated control system | Manual Controls | Education | Cooling Unitary | New | building | 140,710 | 17% | 0.2 | 15 | \$154,044 | 94% | 0.1 |
| FE-WPP | Ceiling Insulations (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Education | Cooling Unitary | Existing | building | 140,710 | 1.6% | 0.02 | 15 | \$26,439 | 71% | 0.0 |
| FE-WPP | Ceiling Insulations (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Education | Cooling Unitary | New | building | 140,710 | 0.5% | 0.01 | 15 | \$25,131 | 94% | 0.0 |
| FE-WPP | Commercial energy recovery ventilation systems | No Commercial Recovery System | Education | Cooling Unitary | Existing | building | 140,710 | 16% | 0.2 | 14 | \$127,152 | 71% | 0.1 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Education | Cooling Unitary | Existing | building | 140,710 | 1.4% | 0.04 | 15 | \$1,118 | 20% | 0.9 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Education | Cooling Unitary | New | building | 140,710 | 1.4% | 0.04 | 15 | \$1,118 | 10% | 0.9 |
| FE-WPP | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Education | Cooling Unitary | Existing | building | 77,390 | 13% | 0.1 | 1 | \$742 | 73% | 0.7 |
| FE-WPP | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Education | Cooling Unitary | New | building | 77,390 | 13% | 0.1 | 1 | \$742 | 73% | 0.7 |
| FE-WPP | ECM Motors for split systems | Std Shaded Pole Motor | Education | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.7 |
| FE-WPP | ECM Motors for split systems | Std Shaded Pole Motor | Education | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.7 |
| FE-WPP | Facility Commissioning | No Facility Commissioning | Education | Cooling Unitary | New | building | 140,710 | 16% | 0.2 | 10 | \$2,284 | 89% | 3.6 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Education | Cooling Unitary | Existing | building | 140,710 | 7.1% | 0.07 | 15 | \$624,156 | 25% | 0.0 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Education | Cooling Unitary | New | building | 140,710 | 7.1% | 0.07 | 15 | \$624,156 | 35% | 0.0 |
| FE-WPP | Hi Eff HVAC System Design | No HVAC Design | Education | Cooling Unitary | New | building | 140,710 | 14% | 0.1 | 10 | \$9,816 | 51% | 0.7 |
| FE-WPP | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Education | Cooling Unitary | Existing | building | 140,710 | 5.0% | 0.05 | 5 | \$225 | 59% | 6.5 |
| FE-WPP | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Education | Cooling Unitary | Existing | building | 140,710 | 0.0% | 0.02 | 5 | \$225 | 51% | 0.1 |
| FE-WPP | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Education | Cooling Unitary | New | building | 140,710 | 0.0% | 0.02 | 5 | \$135 | 51% | 0.2 |
| FE-WPP | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Education | Cooling Unitary | Existing | building | 140,710 | 3.5% | 0.04 | 10 | \$1,989 | 86% | 0.9 |
| FE-WPP | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Education | Cooling Unitary | New | building | 140,710 | 3.5% | 0.04 | 10 | \$1,989 | 86% | 0.9 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) | Education | Cooling Unitary | Existing | building | 140,710 | 2.0% | 0.02 | 11 | \$286 | 49% | 3.8 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Education | Cooling Unitary | New | building | 140,710 | 1.7% | 0.02 | 11 | \$146 | 49% | 6.4 |
| FE-WPP | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Education | Cooling Unitary | Early | unit | 464 | 19% | 0.06 | 15 | \$849 | 85% | 0.1 |
| FE-WPP | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Education | Cooling Unitary | New | unit | 469 | 20% | 0.06 | 15 | \$356 | 85% | 0.3 |
| FE-WPP | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Education | Cooling Unitary | ROB | unit | 469 | 20% | 0.06 | 15 | \$356 | 85% | 0.3 |
| FE-WPP | Re-Commissioning (Existing Construction) | No Re-Commissioning | Education | Cooling Unitary | Existing | building | 140,710 | 16% | 0.2 | 5 | \$9,680 | 86% | 0.5 |
| FE-WPP | Room AC (w/ louvered sides) | Existing efficiency Room AC in Pennsylvania (2000 Federal Standards) | Education | Cooling Unitary | Early | ton | 647 | 13% | 0.03 | 9 | \$348 | 82% | 0.1 |
| FE-WPP | Room AC (w/ louvered sides) | Std Room AC (Code Min. Federal Standards) | Education | Cooling Unitary | New | ton | 587 | 4.5% | 0.01 | 9 | \$17 | 82% | 0.8 |
| FE-WPP | Room AC (w/ louvered sides) | Std Room AC (Code Min. Federal Standards) | Education | Cooling Unitary | ROB | ton | 587 | 4.5% | 0.01 | 9 | \$17 | 82% | 0.8 |
| FE-WPP | Wall Insulations (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Education | Cooling Unitary | Existing | building | 140,710 | 3.6% | 0.04 | 15 | \$6,377 | 26% | 0.4 |
| FE-WPP | Wall Insulations (Going upto R 21) | Code minimum Wall Insulations | Education | Cooling Unitary | New | building | 140,710 | 0.1% | 0.00 | 15 | \$4,891 | 94% | 0.0 |
| FE-WPP | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Education | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 1.0 |
| FE-WPP | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Education | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.3 |
| FE-WPP | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Education | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.3 |
| FE-WPP | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Education | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 0% | 0.2 |
| FE-WPP | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Education | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-WPP | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Education | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-WPP | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Education | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 75% | 0.3 |
| FE-WPP | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Education | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 75% | 0.2 |
| FE-WPP | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Education | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.6 |
| FE-WPP | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Education | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|--|---|-----------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Education | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.6 |
| FE-WPP | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Education | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.0 |
| FE-WPP | Photocell Controls (Outdoor) | Lighting w/ No Controls | Education | Ext. Lighting | Existing | building | 1,001 | 28% | 0.3 | 8 | \$15,932 | 88% | 0.0 |
| FE-WPP | Photocell Controls (Outdoor) | Lighting w/ No Controls | Education | Ext. Lighting | New | building | 1,001 | 28% | 0.3 | 8 | \$15,932 | 0% | 0.0 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Education | Heat Pump | Existing | building | 14,618 | 6.9% | 0.07 | 6 | \$19,275 | 82% | 0.0 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Education | Heat Pump | New | building | 14,618 | 6.9% | 0.07 | 6 | \$19,275 | 82% | 0.0 |
| FE-WPP | Adding window shade film | No shade film | Education | Heat Pump | Existing | building | 14,618 | 3.9% | 0.4 | 10 | \$178 | 12% | 2.4 |
| FE-WPP | Adding window shade film | No shade film | Education | Heat Pump | New | building | 14,618 | 3.9% | 0.4 | 10 | \$178 | 12% | 2.4 |
| FE-WPP | Adding window shade screen | No shade screen | Education | Heat Pump | Existing | building | 14,618 | 0.3% | 0.01 | 10 | \$23 | 12% | 1.0 |
| FE-WPP | Adding window shade screen | No shade screen | Education | Heat Pump | New | building | 14,618 | 0.3% | 0.01 | 10 | \$23 | 12% | 1.0 |
| FE-WPP | Automated control system | Manual Controls | Education | Heat Pump | Existing | building | 14,618 | 17% | 0.2 | 15 | \$16,003 | 51% | 0.1 |
| FE-WPP | Automated control system | Manual Controls | Education | Heat Pump | New | building | 14,618 | 17% | 0.2 | 15 | \$16,003 | 94% | 0.1 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Education | Heat Pump | Existing | building | 14,618 | 1.6% | 0.02 | 15 | \$26,439 | 71% | 0.0 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Education | Heat Pump | New | building | 14,618 | 0.5% | 0.01 | 15 | \$25,131 | 94% | 0.0 |
| FE-WPP | Commercial energy recovery ventilation systems | No Commercial Recovery System | Education | Heat Pump | Existing | building | 14,618 | 16% | 0.2 | 14 | \$614,557 | 71% | 0.0 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Education | Heat Pump | Existing | building | 14,618 | 4.0% | 0.04 | 15 | \$116 | 12% | 2.7 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Education | Heat Pump | New | building | 14,618 | 4.0% | 0.04 | 15 | \$116 | 6% | 2.7 |
| FE-WPP | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Education | Heat Pump | Early | heat pump | 1,397 | 12% | 0.01 | 15 | \$4,070 | 83% | 0.0 |
| FE-WPP | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Education | Heat Pump | New | heat pump | 1,338 | 7.9% | 0.01 | 15 | \$1,097 | 83% | 0.1 |
| FE-WPP | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Education | Heat Pump | ROB | heat pump | 1,338 | 7.9% | 0.01 | 15 | \$1,097 | 83% | 0.1 |
| FE-WPP | Facility Commissioning | No Facility Commissioning | Education | Heat Pump | New | building | 14,618 | 16% | 0.2 | 10 | \$5,234 | 89% | 0.2 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Education | Heat Pump | Existing | building | 14,618 | 7.0% | 0.07 | 15 | \$64,840 | 25% | 0.0 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Education | Heat Pump | New | building | 14,618 | 7.0% | 0.07 | 15 | \$64,840 | 35% | 0.0 |
| FE-WPP | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Education | Heat Pump | Early | heat pump | 14,291 | 15% | 0.2 | 15 | \$91,117 | 19% | 0.0 |
| FE-WPP | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Education | Heat Pump | New | heat pump | 13,823 | 12% | 0.1 | 15 | \$33,927 | 19% | 0.0 |
| FE-WPP | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Education | Heat Pump | ROB | heat pump | 13,823 | 12% | 0.1 | 15 | \$33,927 | 19% | 0.0 |
| FE-WPP | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Education | Heat Pump | Early | heat pump | 14,291 | 15% | 0.2 | 15 | \$58,356 | 19% | 0.0 |
| FE-WPP | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Education | Heat Pump | New | heat pump | 13,823 | 12% | 0.1 | 15 | \$1,167 | 19% | 0.8 |
| FE-WPP | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Education | Heat Pump | ROB | heat pump | 13,823 | 12% | 0.1 | 15 | \$1,167 | 19% | 0.8 |
| FE-WPP | Hi Eff HVAC System Design | No HVAC Design | Education | Heat Pump | New | building | 14,618 | 14% | 0.1 | 10 | \$77,679 | 51% | 0.0 |
| FE-WPP | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Education | Heat Pump | Early | heat pump | 3,726 | 16% | 0.05 | 12 | \$4,298 | 81% | 0.1 |
| FE-WPP | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Education | Heat Pump | New | heat pump | 3,569 | 12% | 0.04 | 12 | \$852 | 81% | 0.2 |
| FE-WPP | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Education | Heat Pump | ROB | heat pump | 3,569 | 12% | 0.04 | 12 | \$852 | 81% | 0.2 |
| FE-WPP | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Education | Heat Pump | Existing | building | 14,618 | 5.0% | 0.06 | 5 | \$90 | 51% | 1.8 |
| FE-WPP | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Education | Heat Pump | New | building | 14,618 | 5.0% | 0.06 | 5 | \$90 | 51% | 1.8 |
| FE-WPP | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Education | Heat Pump | Existing | building | 14,618 | 3.5% | 0.04 | 10 | \$1,771 | 81% | 0.1 |
| FE-WPP | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Education | Heat Pump | New | building | 14,618 | 3.5% | 0.04 | 10 | \$1,771 | 81% | 0.1 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Education | Heat Pump | Existing | building | 14,618 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.5 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Education | Heat Pump | New | building | 14,618 | 2.1% | 0.02 | 11 | \$146 | 49% | 0.9 |
| FE-WPP | Re-Commissioning (Existing Construction) | No Re-Commissioning | Education | Heat Pump | Existing | building | 14,618 | 16% | 0.2 | 5 | \$9,680 | 86% | 0.1 |
| FE-WPP | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Education | Heat Pump | New | measure | 1,891,834 | 2.0% | 4.3 | 13 | \$238,160 | 43% | 0.1 |
| FE-WPP | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Education | Heat Pump | ROB | measure | 1,891,834 | 2.0% | 4.3 | 13 | \$238,160 | 43% | 0.1 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Education | Heat Pump | Existing | building | 14,618 | 3.6% | 0.04 | 15 | \$6,377 | 26% | 0.0 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Education | Heat Pump | New | building | 14,618 | 0.1% | 0.00 | 15 | \$4,891 | 94% | 0.0 |
| FE-WPP | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Education | Heat Pump | Early | heat pump | 6,032 | 36% | 0.2 | 15 | \$35,347 | 28% | 0.0 |
| FE-WPP | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Education | Heat Pump | New | heat pump | 5,766 | 33% | 0.2 | 15 | \$15,739 | 28% | 0.1 |
| FE-WPP | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Education | Heat Pump | ROB | heat pump | 5,766 | 33% | 0.2 | 15 | \$15,739 | 28% | 0.1 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Education | High Bay Lighting | Early | Fixture | 499 | 9.6% | 0.01 | 13 | \$850 | 39% | 0.0 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Education | High Bay Lighting | Early | Fixture | 499 | 9.5% | 0.01 | 13 | \$850 | 28% | 0.0 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Education | High Bay Lighting | Early | Fixture | 770 | 41% | 0.07 | 13 | \$850 | 36% | 0.2 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Education | High Bay Lighting | New | Fixture | 379 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Education | High Bay Lighting | New | Fixture | 353 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Education | High Bay Lighting | New | Fixture | 585 | 41% | 0.05 | 13 | \$397 | 36% | 0.4 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Education | High Bay Lighting | ROB | Fixture | 499 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Education | High Bay Lighting | ROB | Fixture | 465 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Education | High Bay Lighting | ROB | Fixture | 770 | 41% | 0.07 | 13 | \$397 | 36% | 0.5 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Education | High Bay Lighting | Early | Fixture | 969 | 19% | 0.04 | 13 | \$851 | 38% | 0.1 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Education | High Bay Lighting | Early | Fixture | 981 | 20% | 0.04 | 13 | \$851 | 38% | 0.1 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | Early | Fixture | 2,855 | 73% | 0.5 | 13 | \$851 | 38% | 1.5 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Education | High Bay Lighting | New | Fixture | 737 | 19% | 0.03 | 13 | \$372 | 38% | 0.2 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | New | Fixture | 2,170 | 73% | 0.4 | 13 | \$383 | 38% | 2.5 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Education | High Bay Lighting | ROB | Fixture | 969 | 19% | 0.04 | 13 | \$372 | 38% | 0.3 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | ROB | Fixture | 2,855 | 73% | 0.5 | 13 | \$383 | 38% | 3.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|---|-----------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Education | High Bay Lighting | Early | Fixture | 969 | 25% | 0.05 | 13 | \$554 | 29% | 0.3 |
| FE-WPP | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Education | High Bay Lighting | Early | Fixture | 951 | 23% | 0.05 | 13 | \$554 | 28% | 0.2 |
| FE-WPP | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | Early | Fixture | 2,855 | 74% | 0.5 | 13 | \$554 | 36% | 2.3 |
| FE-WPP | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Education | High Bay Lighting | New | Fixture | 737 | 25% | 0.04 | 13 | \$75 | 29% | 1.5 |
| FE-WPP | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | New | Fixture | 2,170 | 74% | 0.4 | 13 | \$86 | 36% | 11.5 |
| FE-WPP | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Education | High Bay Lighting | ROB | Fixture | 969 | 25% | 0.05 | 13 | \$75 | 29% | 1.9 |
| FE-WPP | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | ROB | Fixture | 2,855 | 74% | 0.5 | 13 | \$86 | 36% | 15.1 |
| FE-WPP | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Education | High Bay Lighting | Early | Fixture | 253 | 0.2% | 0.00 | 13 | \$835 | 38% | 0.0 |
| FE-WPP | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Education | High Bay Lighting | Early | Fixture | 544 | 54% | 0.07 | 13 | \$835 | 38% | 0.2 |
| FE-WPP | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Education | High Bay Lighting | New | Fixture | 414 | 54% | 0.05 | 13 | \$382 | 38% | 0.4 |
| FE-WPP | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Education | High Bay Lighting | ROB | Fixture | 544 | 54% | 0.07 | 13 | \$382 | 38% | 0.5 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Education | High Bay Lighting | Early | Fixture | 1,235 | 18% | 0.05 | 13 | \$487 | 25% | 0.3 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Education | High Bay Lighting | Early | Fixture | 1,291 | 22% | 0.06 | 13 | \$487 | 28% | 0.4 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | Early | Fixture | 2,855 | 65% | 0.4 | 13 | \$487 | 36% | 2.3 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Education | High Bay Lighting | New | Fixture | 938 | 18% | 0.04 | 13 | \$16 | 25% | 6.4 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | New | Fixture | 2,170 | 65% | 0.3 | 13 | \$18 | 36% | 46.5 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Education | High Bay Lighting | ROB | Fixture | 1,235 | 18% | 0.05 | 13 | \$16 | 25% | 8.4 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | ROB | Fixture | 2,855 | 65% | 0.4 | 13 | \$18 | 36% | 61.1 |
| FE-WPP | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Education | High Bay Lighting | Early | Fixture | 1,235 | 1.5% | 0.00 | 13 | \$557 | 19% | 0.0 |
| FE-WPP | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Education | High Bay Lighting | Early | Fixture | 1,271 | 4.3% | 0.01 | 13 | \$557 | 19% | 0.1 |
| FE-WPP | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | Early | Fixture | 2,855 | 57% | 0.4 | 13 | \$557 | 19% | 1.8 |
| FE-WPP | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Education | High Bay Lighting | New | Fixture | 938 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| FE-WPP | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | New | Fixture | 2,170 | 57% | 0.3 | 13 | \$88 | 19% | 8.6 |
| FE-WPP | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Education | High Bay Lighting | ROB | Fixture | 1,235 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| FE-WPP | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | ROB | Fixture | 2,855 | 57% | 0.4 | 13 | \$88 | 19% | 11.3 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Education | High Bay Lighting | Early | Fixture | 524 | 29% | 0.02 | 13 | \$492 | 71% | 0.2 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Education | High Bay Lighting | Early | Fixture | 438 | 15% | 0.01 | 13 | \$492 | 95% | 0.1 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Education | High Bay Lighting | Early | Fixture | 651 | 43% | 0.04 | 13 | \$492 | 95% | 0.3 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Education | High Bay Lighting | Early | Fixture | 604 | 38% | 0.04 | 13 | \$492 | 95% | 0.3 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Education | High Bay Lighting | New | Fixture | 333 | 15% | 0.01 | 13 | \$25 | 95% | 1.1 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Education | High Bay Lighting | New | Fixture | 495 | 43% | 0.03 | 13 | \$51 | 95% | 2.3 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Education | High Bay Lighting | ROB | Fixture | 438 | 15% | 0.01 | 13 | \$25 | 95% | 1.5 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Education | High Bay Lighting | ROB | Fixture | 651 | 43% | 0.04 | 13 | \$51 | 95% | 3.0 |
| FE-WPP | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Education | High Bay Lighting | Early | lamp | 66 | 16% | 0.00 | 15 | \$7.7 | 99% | 1.0 |
| FE-WPP | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Education | High Bay Lighting | New | lamp | 39 | 13% | 0.00 | 15 | \$1.6 | 91% | 2.2 |
| FE-WPP | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Education | High Bay Lighting | ROB | lamp | 64 | 13% | 0.00 | 15 | \$1.6 | 91% | 3.5 |
| FE-WPP | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Education | High Bay Lighting | Early | Fixture | 2,921 | 23% | 0.2 | 13 | \$613 | 5% | 0.7 |
| FE-WPP | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Education | High Bay Lighting | Early | Fixture | 2,295 | 1.6% | 0.01 | 13 | \$613 | 28% | 0.0 |
| FE-WPP | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Education | High Bay Lighting | Early | Fixture | 5,709 | 60% | 0.8 | 13 | \$613 | 18% | 3.4 |
| FE-WPP | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Education | High Bay Lighting | New | Fixture | 2,220 | 23% | 0.1 | 13 | \$96 | 5% | 3.2 |
| FE-WPP | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Education | High Bay Lighting | ROB | Fixture | 2,921 | 23% | 0.2 | 13 | \$96 | 5% | 4.2 |
| FE-WPP | Auto Off Time Switch | Lighting w/ No Controls | Education | High Bay Lighting | Existing | building | 7,200 | 24% | 0.2 | 8 | \$3,237 | 13% | 0.2 |
| FE-WPP | Auto Off Time Switch | Lighting w/ No Controls | Education | High Bay Lighting | New | building | 7,200 | 6.9% | 0.07 | 8 | \$3,237 | 0% | 0.1 |
| FE-WPP | Central Lighting Control System | Lighting w/ No Controls | Education | High Bay Lighting | Existing | building | 7,200 | 38% | 0.4 | 8 | \$3,237 | 13% | 0.3 |
| FE-WPP | Central Lighting Control System | Lighting w/ No Controls | Education | High Bay Lighting | New | building | 7,200 | 14% | 0.1 | 8 | \$3,237 | 13% | 0.1 |
| FE-WPP | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Education | High Bay Lighting | New | building | 7,200 | 10% | 0.1 | 15 | \$35,171 | 32% | 0.0 |
| FE-WPP | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Education | High Bay Lighting | New | building | 7,200 | 15% | 0.2 | 15 | \$87,927 | 32% | 0.0 |
| FE-WPP | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Education | High Bay Lighting | New | building | 7,200 | 30% | 0.3 | 15 | \$126,028 | 32% | 0.0 |
| FE-WPP | Indoor Daylight Sensors | Lighting w/ No Controls | Education | High Bay Lighting | Existing | building | 7,200 | 28% | 0.3 | 8 | \$15,932 | 13% | 0.0 |
| FE-WPP | Indoor Daylight Sensors | Lighting w/ No Controls | Education | High Bay Lighting | New | building | 7,200 | 4.0% | 0.04 | 8 | \$15,932 | 0% | 0.0 |
| FE-WPP | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Education | High Bay Lighting | Early | Fixture | 2,921 | 92% | 0.6 | 13 | \$1,916 | 95% | 0.9 |
| FE-WPP | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | Early | Fixture | 5,709 | 96% | 1.2 | 13 | \$1,916 | 95% | 1.7 |
| FE-WPP | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Education | High Bay Lighting | New | Fixture | 2,220 | 92% | 0.5 | 13 | \$1,468 | 95% | 0.9 |
| FE-WPP | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | New | Fixture | 4,339 | 96% | 0.9 | 13 | \$1,149 | 95% | 2.2 |
| FE-WPP | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Education | High Bay Lighting | ROB | Fixture | 2,921 | 92% | 0.6 | 13 | \$1,468 | 95% | 1.1 |
| FE-WPP | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | ROB | Fixture | 5,709 | 96% | 1.2 | 13 | \$1,149 | 95% | 2.9 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Education | High Bay Lighting | Early | Fixture | 969 | 67% | 0.1 | 13 | \$960 | 95% | 0.4 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Education | High Bay Lighting | Early | Fixture | 2,855 | 89% | 0.6 | 13 | \$960 | 95% | 1.6 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Education | High Bay Lighting | Early | Fixture | 783 | 59% | 0.1 | 13 | \$960 | 95% | 0.3 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Education | High Bay Lighting | New | Fixture | 737 | 67% | 0.1 | 13 | \$480 | 95% | 0.6 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Education | High Bay Lighting | New | Fixture | 2,170 | 89% | 0.4 | 13 | \$491 | 95% | 2.4 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Education | High Bay Lighting | New | Fixture | 595 | 59% | 0.08 | 13 | \$406 | 95% | 0.5 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Education | High Bay Lighting | ROB | Fixture | 969 | 67% | 0.1 | 13 | \$480 | 95% | 0.8 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Education | High Bay Lighting | ROB | Fixture | 2,855 | 89% | 0.6 | 13 | \$491 | 95% | 3.1 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Education | High Bay Lighting | ROB | Fixture | 783 | 59% | 0.1 | 13 | \$406 | 95% | 0.7 |
| FE-WPP | Occupancy Sensor | Lighting w/ No Controls | Education | High Bay Lighting | Existing | building | 7,200 | 24% | 0.2 | 8 | \$4,877 | 11% | 0.1 |
| FE-WPP | Occupancy Sensor | Lighting w/ No Controls | Education | High Bay Lighting | New | building | 7,200 | 6.9% | 0.07 | 8 | \$4,877 | 0% | 0.0 |
| FE-WPP | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Education | High Bay Lighting | Existing | building | 7,200 | 28% | 0.3 | 8 | \$15,932 | 11% | 0.0 |
| FE-WPP | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Education | High Bay Lighting | New | building | 7,200 | 4.0% | 0.04 | 8 | \$15,932 | 0% | 0.0 |
| FE-WPP | Time Clock Control | Lighting w/ No Controls | Education | High Bay Lighting | Existing | building | 7,200 | 28% | 0.3 | 8 | \$3,237 | 13% | 0.2 |
| FE-WPP | Time Clock Control | Lighting w/ No Controls | Education | High Bay Lighting | New | building | 7,200 | 4.0% | 0.04 | 8 | \$3,237 | 0% | 0.0 |
| FE-WPP | Auto Off Time Switch | Lighting w/ No Controls | Education | Lin. Fluor. Lighting | Existing | building | 82,357 | 24% | 0.2 | 8 | \$3,237 | 13% | 1.9 |
| FE-WPP | Auto Off Time Switch | Lighting w/ No Controls | Education | Lin. Fluor. Lighting | New | building | 82,357 | 7.0% | 0.07 | 8 | \$3,237 | 0% | 0.5 |
| FE-WPP | Central Lighting Control System | Lighting w/ No Controls | Education | Lin. Fluor. Lighting | Existing | building | 82,357 | 38% | 0.4 | 8 | \$3,237 | 12% | 2.9 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|--|-----------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Central Lighting Control System | Lighting w/ No Controls | Education | Lin. Fluor. Lighting | New | building | 82,357 | 14% | 0.1 | 8 | \$3,237 | 12% | 1.1 |
| FE-WPP | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Education | Lin. Fluor. Lighting | New | building | 82,357 | 10% | 0.1 | 15 | \$35,171 | 32% | 0.1 |
| FE-WPP | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Education | Lin. Fluor. Lighting | New | building | 82,357 | 15% | 0.2 | 15 | \$87,927 | 32% | 0.1 |
| FE-WPP | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Education | Lin. Fluor. Lighting | New | building | 82,357 | 30% | 0.3 | 15 | \$126,028 | 32% | 0.1 |
| FE-WPP | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Education | Lin. Fluor. Lighting | Early | Lamp | 133 | 38% | 0.01 | 15 | \$7.3 | 94% | 4.7 |
| FE-WPP | Indoor Daylight Sensors | Lighting w/ No Controls | Education | Lin. Fluor. Lighting | Existing | building | 82,357 | 28% | 0.3 | 8 | \$15,932 | 13% | 0.4 |
| FE-WPP | Indoor Daylight Sensors | Lighting w/ No Controls | Education | Lin. Fluor. Lighting | New | building | 82,357 | 4.1% | 0.04 | 8 | \$15,932 | 0% | 0.1 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Education | Lin. Fluor. Lighting | Early | Lamp | 63 | 19% | 0.00 | 15 | \$35 | 94% | 0.2 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 40W T12 Lamp, Magnetic Ballast | Education | Lin. Fluor. Lighting | Early | Lamp | 137 | 63% | 0.02 | 15 | \$35 | 94% | 1.7 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Education | Lin. Fluor. Lighting | Early | Lamp | 77 | 34% | 0.01 | 15 | \$35 | 94% | 0.5 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Education | Lin. Fluor. Lighting | Early | Lamp | 75 | 32% | 0.00 | 15 | \$35 | 94% | 0.5 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Education | Lin. Fluor. Lighting | New | Lamp | 48 | 19% | 0.00 | 15 | \$28 | 94% | 0.2 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Education | Lin. Fluor. Lighting | New | Lamp | 57 | 32% | 0.00 | 15 | \$29 | 94% | 0.4 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Education | Lin. Fluor. Lighting | New | Lamp | 59 | 34% | 0.00 | 15 | \$22 | 94% | 0.6 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Education | Lin. Fluor. Lighting | New | Lamp | 57 | 32% | 0.00 | 15 | \$29 | 94% | 0.4 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Education | Lin. Fluor. Lighting | ROB | Lamp | 63 | 19% | 0.00 | 15 | \$28 | 94% | 0.3 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Education | Lin. Fluor. Lighting | ROB | Lamp | 75 | 32% | 0.00 | 15 | \$29 | 94% | 0.6 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Education | Lin. Fluor. Lighting | ROB | Lamp | 77 | 34% | 0.01 | 15 | \$22 | 94% | 0.8 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Education | Lin. Fluor. Lighting | ROB | Lamp | 75 | 32% | 0.00 | 15 | \$29 | 94% | 0.6 |
| FE-WPP | Occupancy Sensor | Lighting w/ No Controls | Education | Lin. Fluor. Lighting | Existing | building | 82,357 | 24% | 0.2 | 8 | \$4,877 | 12% | 1.2 |
| FE-WPP | Occupancy Sensor | Lighting w/ No Controls | Education | Lin. Fluor. Lighting | New | building | 82,357 | 7.0% | 0.07 | 8 | \$4,877 | 0% | 0.4 |
| FE-WPP | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Education | Lin. Fluor. Lighting | Existing | building | 82,357 | 28% | 0.3 | 8 | \$15,932 | 11% | 0.4 |
| FE-WPP | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Education | Lin. Fluor. Lighting | New | building | 82,357 | 4.1% | 0.04 | 8 | \$15,932 | 0% | 0.1 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 40W T12 w/ Magnetic Ballast | Education | Lin. Fluor. Lighting | Early | Lamp | 133 | 54% | 0.02 | 15 | \$9.1 | 94% | 5.4 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Education | Lin. Fluor. Lighting | Early | Lamp | 85 | 28% | 0.01 | 15 | \$9.1 | 24% | 1.8 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Education | Lin. Fluor. Lighting | Early | Lamp | 83 | 26% | 0.00 | 15 | \$9.1 | 94% | 1.6 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Education | Lin. Fluor. Lighting | New | Lamp | 63 | 26% | 0.00 | 15 | \$2.5 | 94% | 4.4 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Education | Lin. Fluor. Lighting | New | Lamp | 63 | 26% | 0.00 | 15 | \$2.5 | 94% | 4.4 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Education | Lin. Fluor. Lighting | New | Lamp | 65 | 28% | 0.00 | 15 | \$2.5 | 24% | 4.9 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Education | Lin. Fluor. Lighting | New | Lamp | 63 | 26% | 0.00 | 15 | \$2.5 | 94% | 4.4 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Education | Lin. Fluor. Lighting | ROB | Lamp | 83 | 26% | 0.00 | 15 | \$2.5 | 94% | 5.8 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Education | Lin. Fluor. Lighting | ROB | Lamp | 83 | 26% | 0.00 | 15 | \$2.5 | 94% | 5.8 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Education | Lin. Fluor. Lighting | ROB | Lamp | 85 | 28% | 0.01 | 15 | \$2.5 | 24% | 6.5 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Education | Lin. Fluor. Lighting | ROB | Lamp | 83 | 26% | 0.00 | 15 | \$2.5 | 94% | 5.8 |
| FE-WPP | T8 Lamp (any length) Electronic Ballast | Standard T12 lamp (any length) | Education | Lin. Fluor. Lighting | Early | Lamp | 157 | 42% | 0.01 | 15 | \$14 | 94% | 3.2 |
| FE-WPP | Time Clock Control | Lighting w/ No Controls | Education | Lin. Fluor. Lighting | Existing | building | 82,357 | 28% | 0.3 | 8 | \$3,237 | 14% | 2.2 |
| FE-WPP | Time Clock Control | Lighting w/ No Controls | Education | Lin. Fluor. Lighting | New | building | 82,357 | 4.1% | 0.04 | 8 | \$3,237 | 0% | 0.3 |
| FE-WPP | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Education | Motors | Early | motor | 2,819 | 3.6% | 0.01 | 15 | \$374 | 76% | 0.2 |
| FE-WPP | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Education | Motors | Early | motor | 2,819 | 3.6% | 0.01 | 15 | \$374 | 76% | 0.2 |
| FE-WPP | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Education | Motors | Early | motor | 2,819 | 3.6% | 0.01 | 15 | \$374 | 76% | 0.2 |
| FE-WPP | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Education | Motors | Early | motor | 2,819 | 3.6% | 0.01 | 15 | \$374 | 76% | 0.2 |
| FE-WPP | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Education | Motors | Early | motor | 2,819 | 3.6% | 0.01 | 15 | \$374 | 76% | 0.2 |
| FE-WPP | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Education | Motors | New | motor | 2,733 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-WPP | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Education | Motors | New | motor | 2,733 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-WPP | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Education | Motors | New | motor | 2,733 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-WPP | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Education | Motors | New | motor | 2,733 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-WPP | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Education | Motors | ROB | motor | 2,733 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-WPP | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Education | Motors | ROB | motor | 2,733 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-WPP | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Education | Motors | ROB | motor | 2,733 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-WPP | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Education | Motors | ROB | motor | 2,733 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-WPP | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Education | Motors | ROB | motor | 2,733 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-WPP | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Education | Motors | Early | motor | 4,156 | 3.1% | 0.02 | 15 | \$402 | 76% | 0.2 |
| FE-WPP | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Education | Motors | Early | motor | 4,156 | 3.1% | 0.02 | 15 | \$402 | 76% | 0.2 |
| FE-WPP | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Education | Motors | Early | motor | 4,156 | 3.1% | 0.02 | 15 | \$402 | 76% | 0.2 |
| FE-WPP | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Education | Motors | Early | motor | 4,156 | 3.1% | 0.02 | 15 | \$402 | 76% | 0.2 |
| FE-WPP | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Education | Motors | Early | motor | 4,156 | 3.1% | 0.02 | 15 | \$402 | 76% | 0.2 |
| FE-WPP | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Education | Motors | New | motor | 4,051 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.2 |
| FE-WPP | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Education | Motors | New | motor | 4,051 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.2 |
| FE-WPP | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Education | Motors | New | motor | 4,051 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.2 |
| FE-WPP | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Education | Motors | New | motor | 4,051 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.2 |
| FE-WPP | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Education | Motors | ROB | motor | 4,051 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|---|-----------|---------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Education | Motors | Early | motor | 185,977 | 1.3% | 0.3 | 15 | \$3,955 | 61% | 0.4 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Education | Motors | Early | motor | 185,977 | 1.3% | 0.4 | 15 | \$3,955 | 61% | 0.4 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Education | Motors | Early | motor | 185,977 | 1.3% | 0.3 | 15 | \$3,955 | 61% | 0.4 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Education | Motors | New | motor | 184,444 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.0 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Education | Motors | New | motor | 184,444 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.0 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Education | Motors | New | motor | 184,444 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.0 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Education | Motors | New | motor | 184,444 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.0 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Education | Motors | ROB | motor | 184,444 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.0 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Education | Motors | ROB | motor | 184,444 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.0 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Education | Motors | ROB | motor | 184,444 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.0 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Education | Motors | ROB | motor | 184,444 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.0 |
| FE-WPP | ASD HVAC Fan | Std. HVAC Fan | Education | Motors | New | measure | 60,857 | 6.0% | 0.4 | 15 | \$3,455 | 85% | 0.6 |
| FE-WPP | ASD HVAC Fan | Std. HVAC Fan | Education | Motors | ROB | measure | 60,857 | 6.0% | 0.4 | 15 | \$3,455 | 85% | 0.6 |
| FE-WPP | demand controlled ventilation | Absence of Demand Controlled Ventilation | Education | Motors | Early | measure | 60,857 | 14% | 1.0 | 10 | \$8,057 | 92% | 0.4 |
| FE-WPP | demand controlled ventilation | Office building thermostat | Education | Motors | New | measure | 60,857 | 14% | 1.0 | 10 | \$6,286 | 92% | 0.6 |
| FE-WPP | demand controlled ventilation | Office building thermostat | Education | Motors | ROB | measure | 60,857 | 14% | 1.0 | 10 | \$6,286 | 92% | 0.6 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Education | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 20.4 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Education | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 20.6 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Education | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 21.2 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Education | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 21.6 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Education | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 20.3 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Education | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 20.7 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Education | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 21.3 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Education | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 21.6 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Education | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 21.8 |
| FE-WPP | Energy Efficient Laboratory Fume Hood | Std. Fume Hood | Education | Motors | New | measure | 62,400 | 0.4% | 0.00 | 15 | \$62 | 60% | 2.0 |
| FE-WPP | Energy Efficient Laboratory Fume Hood | Std. Fume Hood | Education | Motors | ROB | measure | 62,400 | 0.4% | 0.00 | 15 | \$62 | 60% | 2.0 |
| FE-WPP | Escalator Motor Controller | Constant power control | Education | Motors | New | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 22% | 5.6 |
| FE-WPP | Escalator Motor Controller | Constant power control | Education | Motors | ROB | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 22% | 5.6 |
| FE-WPP | Fan Motor - correct sizing | Incorrect Fan Motor Sizing | Education | Motors | ROB | measure | 60,857 | 1.6% | 0.1 | 15 | \$50 | 92% | 11.8 |
| FE-WPP | Variable Speed Drive Control, 15HP | Existing Motors w/out VSD Drive | Education | Motors | Early | motor | 38,510 | 70% | 4.0 | 15 | \$731 | 86% | 22.7 |
| FE-WPP | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Education | Motors | New | motor | 37,682 | 71% | 4.0 | 15 | \$731 | 86% | 22.7 |
| FE-WPP | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Education | Motors | ROB | motor | 37,682 | 71% | 4.0 | 15 | \$731 | 86% | 22.7 |
| FE-WPP | Variable Speed Drive Control, 40HP | Existing Motors w/out VSD Drive | Education | Motors | Early | motor | 100,486 | 71% | 10.5 | 15 | \$4,666 | 86% | 9.4 |
| FE-WPP | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Education | Motors | New | motor | 99,311 | 72% | 10.5 | 15 | \$4,666 | 86% | 9.4 |
| FE-WPP | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Education | Motors | ROB | motor | 99,311 | 72% | 10.5 | 15 | \$4,666 | 86% | 9.4 |
| FE-WPP | Variable Speed Drive Control, 5HP | Existing Motors w/out VFD Drive | Education | Motors | Early | motor | 13,350 | 72% | 1.4 | 15 | \$2,243 | 86% | 2.6 |
| FE-WPP | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Education | Motors | New | motor | 13,052 | 72% | 1.4 | 15 | \$2,243 | 86% | 2.6 |
| FE-WPP | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Education | Motors | ROB | motor | 13,052 | 72% | 1.4 | 15 | \$2,243 | 86% | 2.6 |
| FE-WPP | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Education | Motors | Early | motor | 68,319 | 1.6% | 0.1 | 15 | \$268 | 40% | 2.5 |
| FE-WPP | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Education | Motors | New | motor | 68,319 | 1.6% | 0.1 | 15 | \$268 | 40% | 2.5 |
| FE-WPP | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Education | Motors | ROB | motor | 68,319 | 1.6% | 0.1 | 15 | \$268 | 40% | 2.5 |
| FE-WPP | VFD on Chilled Water Pump | Motor w/out VFD Drive | Education | Motors | Early | motor | 33,241 | 55% | 2.7 | 15 | \$2,903 | 86% | 3.8 |
| FE-WPP | VFD on Chilled Water Pump | Motor w/out VFD Drive | Education | Motors | New | motor | 32,619 | 55% | 2.7 | 15 | \$2,843 | 86% | 3.8 |
| FE-WPP | VFD on Chilled Water Pump | Motor w/out VFD Drive | Education | Motors | ROB | motor | 32,619 | 55% | 2.7 | 15 | \$2,843 | 86% | 3.8 |
| FE-WPP | VFD on Condenser Water Pump | Motor w/out VFD Drive | Education | Motors | Early | motor | 34,961 | 32% | 3.2 | 15 | \$2,903 | 86% | 2.8 |
| FE-WPP | VFD on Condenser Water Pump | Motor w/out VFD Drive | Education | Motors | New | motor | 34,307 | 33% | 3.1 | 15 | \$2,843 | 86% | 2.8 |
| FE-WPP | VFD on Condenser Water Pump | Motor w/out VFD Drive | Education | Motors | ROB | motor | 34,307 | 33% | 3.1 | 15 | \$2,843 | 86% | 2.8 |
| FE-WPP | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Education | Motors | Early | motor | 36,760 | 56% | 0.00 | 15 | \$2,903 | 86% | 3.4 |
| FE-WPP | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Education | Motors | New | motor | 36,073 | 57% | 0.00 | 15 | \$2,843 | 86% | 3.4 |
| FE-WPP | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Education | Motors | ROB | motor | 36,073 | 57% | 0.00 | 15 | \$2,843 | 86% | 3.4 |
| FE-WPP | VFD on HVAC Fan | Motor w/out VFD | Education | Motors | Early | motor | 37,199 | 70% | 3.4 | 15 | \$2,903 | 86% | 5.4 |
| FE-WPP | VFD on HVAC Fan | Motor w/out VFD | Education | Motors | New | motor | 36,503 | 71% | 3.3 | 15 | \$2,843 | 86% | 5.5 |
| FE-WPP | VFD on HVAC Fan | Motor w/out VFD | Education | Motors | ROB | motor | 36,503 | 71% | 3.3 | 15 | \$2,843 | 86% | 5.5 |
| FE-WPP | Elevators | Std. Eff Elevator | Education | Other | ROB | measure | 89,016 | 1.8% | 0.1 | 15 | \$379 | 81% | 2.3 |
| FE-WPP | Variable Speed Drives on Process Equipment | Constant speed control | Education | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 10.1 |
| FE-WPP | Variable Speed Drives on Process Equipment | Constant speed control | Education | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 10.1 |
| FE-WPP | Auto Off Time Switch | Lighting w/ No Controls | Education | Other Int. Lighting | Existing | building | 13,969 | 24% | 0.2 | 8 | \$3,237 | 13% | 0.3 |
| FE-WPP | Auto Off Time Switch | Lighting w/ No Controls | Education | Other Int. Lighting | New | building | 13,969 | 7.0% | 0.07 | 8 | \$3,237 | 0% | 0.1 |
| FE-WPP | Central Lighting Control System | Lighting w/ No Controls | Education | Other Int. Lighting | Existing | building | 13,969 | 38% | 0.4 | 8 | \$3,237 | 13% | 0.6 |
| FE-WPP | Central Lighting Control System | Lighting w/ No Controls | Education | Other Int. Lighting | New | building | 13,969 | 14% | 0.1 | 8 | \$3,237 | 13% | 0.2 |
| FE-WPP | Cold Cathode Screw-In Bulb | 40W Incandescent Bulb | Education | Other Int. Lighting | Early | lamp | 145 | 87% | 0.03 | 11 | \$30 | 14% | 2.2 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Education | Other Int. Lighting | Early | lamp | 104 | 81% | 0.02 | 11 | \$30 | 11% | 1.5 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Education | Other Int. Lighting | New | lamp | 79 | 81% | 0.01 | 11 | \$21 | 14% | 1.6 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Education | Other Int. Lighting | New | lamp | 79 | 81% | 0.01 | 11 | \$23 | 14% | 1.5 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Education | Other Int. Lighting | New | lamp | 79 | 81% | 0.01 | 11 | \$22 | 11% | 1.5 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Education | Other Int. Lighting | ROB | lamp | 104 | 81% | 0.02 | 11 | \$21 | 14% | 2.1 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Education | Other Int. Lighting | ROB | lamp | 104 | 81% | 0.02 | 11 | \$23 | 14% | 1.9 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Education | Other Int. Lighting | ROB | lamp | 104 | 81% | 0.02 | 11 | \$22 | 11% | 2.0 |
| FE-WPP | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Education | Other Int. Lighting | Early | lamp | 145 | 75% | 0.02 | 4 | \$73 | 24% | 0.3 |
| FE-WPP | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Education | Other Int. Lighting | New | fixture | 157 | 65% | 0.02 | 13 | \$29 | 28% | 2.1 |
| FE-WPP | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Education | Other Int. Lighting | New | lamp | 79 | 65% | 0.01 | 4 | \$29 | 28% | 0.4 |
| FE-WPP | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Education | Other Int. Lighting | ROB | fixture | 207 | 65% | 0.03 | 13 | \$29 | 24% | 2.8 |
| FE-WPP | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Education | Other Int. Lighting | ROB | lamp | 104 | 65% | 0.01 | 4 | \$29 | 24% | 0.5 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|---|-----------|---------------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Education | Other Int. Lighting | Early | lamp | 145 | 75% | 0.02 | 4 | \$3.2 | 24% | 7.8 |
| FE-WPP | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Education | Other Int. Lighting | New | lamp | 79 | 65% | 0.01 | 4 | \$1.8 | 24% | 6.6 |
| FE-WPP | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Education | Other Int. Lighting | ROB | lamp | 104 | 65% | 0.01 | 4 | \$1.8 | 24% | 8.7 |
| FE-WPP | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Education | Other Int. Lighting | ROB | lamp | 104 | 65% | 0.01 | 4 | \$1.8 | 24% | 8.7 |
| FE-WPP | Exit Sign Retrofit: CFL replacing Incandescent | One 23W Single Sided Incandescent Exit Sign | Education | Other Int. Lighting | Early | exit sign | 139 | 42% | 0.01 | 15 | \$48 | 22% | 0.7 |
| FE-WPP | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Education | Other Int. Lighting | New | building | 13,969 | 10% | 0.1 | 15 | \$35,171 | 32% | 0.0 |
| FE-WPP | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Education | Other Int. Lighting | New | building | 13,969 | 15% | 0.2 | 15 | \$87,927 | 32% | 0.0 |
| FE-WPP | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Education | Other Int. Lighting | New | building | 13,969 | 30% | 0.3 | 15 | \$126,028 | 32% | 0.0 |
| FE-WPP | Indoor Daylight Sensors | Lighting w/ No Controls | Education | Other Int. Lighting | Existing | building | 13,969 | 28% | 0.3 | 8 | \$15,932 | 13% | 0.1 |
| FE-WPP | Indoor Daylight Sensors | Lighting w/ No Controls | Education | Other Int. Lighting | New | building | 13,969 | 4.1% | 0.04 | 8 | \$15,932 | 0% | 0.0 |
| FE-WPP | LED Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Education | Other Int. Lighting | Early | sign | 153 | 87% | 0.02 | 15 | \$48 | 16% | 1.7 |
| FE-WPP | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Education | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 1.8 |
| FE-WPP | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Education | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 1.8 |
| FE-WPP | LED Task Lighting/Screw-In | 1 15W CFL bulb | Education | Other Int. Lighting | Early | lamp | 45 | 33% | 0.00 | 8 | \$9.6 | 24% | 0.6 |
| FE-WPP | LED Task Lighting/Screw-In | 1 60W Incandescent Bulb | Education | Other Int. Lighting | Early | lamp | 179 | 83% | 0.02 | 8 | \$9.6 | 24% | 5.9 |
| FE-WPP | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Education | Other Int. Lighting | New | lamp | 98 | 77% | 0.01 | 8 | \$7.9 | 24% | 3.6 |
| FE-WPP | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Education | Other Int. Lighting | New | lamp | 98 | 77% | 0.01 | 8 | \$7.9 | 24% | 3.6 |
| FE-WPP | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Education | Other Int. Lighting | ROB | lamp | 129 | 77% | 0.01 | 8 | \$7.9 | 24% | 4.7 |
| FE-WPP | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Education | Other Int. Lighting | ROB | lamp | 129 | 77% | 0.01 | 8 | \$7.9 | 24% | 4.7 |
| FE-WPP | Occupancy Sensor | Lighting w/ No Controls | Education | Other Int. Lighting | Existing | building | 13,969 | 24% | 0.2 | 8 | \$4,877 | 11% | 0.2 |
| FE-WPP | Occupancy Sensor | Lighting w/ No Controls | Education | Other Int. Lighting | New | building | 13,969 | 7.0% | 0.07 | 8 | \$4,877 | 0% | 0.1 |
| FE-WPP | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Education | Other Int. Lighting | Existing | building | 13,969 | 28% | 0.3 | 8 | \$15,932 | 11% | 0.1 |
| FE-WPP | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Education | Other Int. Lighting | New | building | 13,969 | 4.1% | 0.04 | 8 | \$15,932 | 0% | 0.0 |
| FE-WPP | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Education | Other Int. Lighting | Early | exit sign | 139 | 100% | 0.02 | 15 | \$173 | 26% | 0.5 |
| FE-WPP | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Education | Other Int. Lighting | New | exit sign | 80 | 100% | 0.01 | 15 | \$148 | 31% | 0.3 |
| FE-WPP | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Education | Other Int. Lighting | ROB | exit sign | 80 | 100% | 0.01 | 15 | \$148 | 26% | 0.3 |
| FE-WPP | Time Clock Control | Lighting w/ No Controls | Education | Other Int. Lighting | Existing | building | 13,969 | 28% | 0.3 | 8 | \$3,237 | 13% | 0.4 |
| FE-WPP | Time Clock Control | Lighting w/ No Controls | Education | Other Int. Lighting | New | building | 13,969 | 4.1% | 0.04 | 8 | \$3,237 | 0% | 0.1 |
| FE-WPP | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Education | Plug Load | Existing | building | 5,331 | 46% | 0.5 | 5 | \$189 | 4% | 3.5 |
| FE-WPP | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Education | Plug Load | New | building | 5,331 | 46% | 0.5 | 5 | \$189 | 4% | 3.5 |
| FE-WPP | Data Center - Server/Storage Consolidation | No Consolidation | Education | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-WPP | Data Center - Server/Storage Consolidation | No Consolidation | Education | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-WPP | Data Center - Server/Storage Virtualization | No Virtualization | Education | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-WPP | Data Center - Server/Storage Virtualization | No Virtualization | Education | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-WPP | Energy Star - Scanners | Std Scanner | Education | Plug Load | New | measure | 68 | 3.9% | 0.04 | 4 | \$777 | 7% | 0.0 |
| FE-WPP | Energy Star - Scanners | Std Scanner | Education | Plug Load | ROB | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| FE-WPP | Energy Star Dishwasher | Existing Dishwasher units | Education | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,580 | 6% | 1.0 |
| FE-WPP | Energy Star Dishwasher | Standard Dishwasher unit | Education | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 6% | 3.1 |
| FE-WPP | Energy Star Dishwasher | Standard Dishwasher unit | Education | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 6% | 3.1 |
| FE-WPP | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Education | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 17% | 0.2 |
| FE-WPP | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Education | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 1.9 |
| FE-WPP | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Education | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 1.9 |
| FE-WPP | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Education | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 9% | 0.8 |
| FE-WPP | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Education | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.6 |
| FE-WPP | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Education | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.6 |
| FE-WPP | ENERGY STAR® Copiers | 10% Less Efficient Copier | Education | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 18% | 0.0 |
| FE-WPP | ENERGY STAR® Copiers | One Conventional Copier | Education | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| FE-WPP | ENERGY STAR® Copiers | One Conventional Copier | Education | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| FE-WPP | ENERGY STAR® desktop | Standard computer | Education | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 69% | 0.1 |
| FE-WPP | ENERGY STAR® desktop | Standard computer | Education | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.3 |
| FE-WPP | ENERGY STAR® desktop | Standard computer | Education | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.3 |
| FE-WPP | ENERGY STAR® Fax | 10% Less Efficient Fax | Education | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 15% | 0.0 |
| FE-WPP | ENERGY STAR® Fax | One Conventional Fax | Education | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| FE-WPP | ENERGY STAR® Fax | One Conventional Fax | Education | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| FE-WPP | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Education | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 70% | 0.0 |
| FE-WPP | ENERGY STAR® Monitors | One Conventional Monitor | Education | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| FE-WPP | ENERGY STAR® Monitors | One Conventional Monitor | Education | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| FE-WPP | ENERGY STAR® Printers | 10% Less Efficient Printer | Education | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 44% | 0.0 |
| FE-WPP | ENERGY STAR® Printers | One Conventional Printer | Education | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| FE-WPP | ENERGY STAR® Printers | One Conventional Printer | Education | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$1,426 | 44% | 0.0 |
| FE-WPP | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Education | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 43% | 0.1 |
| FE-WPP | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Education | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.7 |
| FE-WPP | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Education | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.7 |
| FE-WPP | ENERGY STAR® Televisions | 10% Less Efficient Television | Education | Plug Load | Early | Unit | 185 | 38% | 0.01 | 6 | \$672 | 40% | 0.0 |
| FE-WPP | ENERGY STAR® Televisions | One Conventional Television | Education | Plug Load | New | Unit | 168 | 32% | 0.01 | 6 | \$206 | 40% | 0.1 |
| FE-WPP | ENERGY STAR® Televisions | One Conventional Television | Education | Plug Load | ROB | Unit | 168 | 32% | 0.01 | 6 | \$206 | 40% | 0.1 |
| FE-WPP | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Education | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 24% | 0.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|--|-----------|---------------|----------|-------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Education | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.6 |
| FE-WPP | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Education | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.6 |
| FE-WPP | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Education | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.2 |
| FE-WPP | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Education | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.2 |
| FE-WPP | Network PC Power Management | No PC Power Management | Education | Plug Load | Existing | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 47.7 |
| FE-WPP | Network PC Power Management | No PC Power Management | Education | Plug Load | New | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 47.7 |
| FE-WPP | Smart Strip Plug Outlets | Standard plug strip/outlet | Education | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.3 |
| FE-WPP | Smart Strip Plug Outlets | Standard plug strip/outlet | Education | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.3 |
| FE-WPP | Smart Strip Plug Outlets | Standard plug strip/outlet | Education | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-WPP | Smart Strip Plug Outlets | Standard plug strip/outlet | Education | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-WPP | Smart Strip Plug Outlets | Standard plug strip/outlet | Education | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-WPP | Smart Strip Plug Outlets | Standard plug strip/outlet | Education | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-WPP | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Education | Plug Load | Existing | building | 5,331 | 46% | 0.5 | 5 | \$180 | 3% | 3.6 |
| FE-WPP | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Education | Plug Load | New | building | 5,331 | 46% | 0.5 | 5 | \$180 | 3% | 3.6 |
| FE-WPP | Air curtain technology | Strip plastic curtain | Education | Refrigeration | New | building | 21,590 | 6.8% | 0.07 | 8 | \$2,608 | 35% | 0.2 |
| FE-WPP | Air curtain technology | Strip plastic curtain | Education | Refrigeration | New | building | 12,394 | 6.8% | 0.07 | 8 | \$2,657 | 35% | 0.1 |
| FE-WPP | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Education | Refrigeration | Existing | building | 4,398 | 0.7% | 0.01 | 12 | \$70 | 11% | 0.2 |
| FE-WPP | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Education | Refrigeration | New | building | 4,398 | 0.7% | 0.01 | 12 | \$70 | 11% | 0.3 |
| FE-WPP | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Education | Refrigeration | Existing | building | 4,398 | 7.0% | 0.07 | 12 | \$70 | 11% | 2.4 |
| FE-WPP | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Education | Refrigeration | New | building | 4,398 | 7.0% | 0.07 | 12 | \$70 | 11% | 2.4 |
| FE-WPP | Auto Closer on Refrigerator Door | Door w/out Autocloser | Education | Refrigeration | Existing | building | 12,394 | 6.4% | 0.06 | 8 | \$698 | 40% | 0.4 |
| FE-WPP | Auto Closer on Refrigerator Door | Door w/out Autocloser | Education | Refrigeration | Existing | building | 21,590 | 2.9% | 0.03 | 8 | \$559 | 40% | 0.3 |
| FE-WPP | Auto Closer on Refrigerator Door | Door w/out Autocloser | Education | Refrigeration | New | building | 12,394 | 6.4% | 0.06 | 8 | \$698 | 40% | 0.4 |
| FE-WPP | Auto Closer on Refrigerator Door | Door w/out Autocloser | Education | Refrigeration | New | building | 21,590 | 2.9% | 0.03 | 8 | \$559 | 40% | 0.4 |
| FE-WPP | Demand Hot Gas Defrost | Base Refrigeration System | Education | Refrigeration | Existing | measure | 4,398 | 3.0% | 0.03 | 10 | \$1,289 | 0% | 0.0 |
| FE-WPP | Demand Hot Gas Defrost | Base Refrigeration System | Education | Refrigeration | New | measure | 4,398 | 3.0% | 0.03 | 10 | \$1,289 | 0% | 0.1 |
| FE-WPP | Door Gasket- Freezer | Door w/out Gasket | Education | Refrigeration | Existing | building | 12,394 | 3.5% | 0.04 | 4 | \$72 | 29% | 1.1 |
| FE-WPP | Door Gasket- Freezer | Door w/out Gasket | Education | Refrigeration | New | building | 12,394 | 3.7% | 0.04 | 4 | \$72 | 29% | 1.2 |
| FE-WPP | Door Gasket- Refrigerator | Door w/out Gasket | Education | Refrigeration | Existing | building | 21,590 | 0.9% | 0.01 | 4 | \$77 | 45% | 0.4 |
| FE-WPP | Door Gasket- Refrigerator | Door w/out Gasket | Education | Refrigeration | New | building | 21,590 | 0.9% | 0.01 | 4 | \$77 | 45% | 0.4 |
| FE-WPP | Economizer for Walk-in Coolers | No Economizer | Education | Refrigeration | Early | measure | 39,466 | 6.6% | 0.4 | 10 | \$459 | 72% | 2.4 |
| FE-WPP | Economizer for Walk-in Coolers | No Economizer | Education | Refrigeration | Early | measure | 39,466 | 6.6% | 0.4 | 10 | \$459 | 72% | 2.4 |
| FE-WPP | Economizer for Walk-in Coolers | No Economizer | Education | Refrigeration | Early | measure | 39,466 | 6.6% | 0.4 | 10 | \$459 | 72% | 2.4 |
| FE-WPP | Economizer for Walk-in Coolers | No Economizer | Education | Refrigeration | New | measure | 39,466 | 6.6% | 0.4 | 10 | \$54 | 72% | 20.7 |
| FE-WPP | Economizer for Walk-in Coolers | No Economizer | Education | Refrigeration | New | measure | 39,466 | 6.6% | 0.4 | 10 | \$54 | 72% | 20.8 |
| FE-WPP | Economizer for Walk-in Coolers | No Economizer | Education | Refrigeration | New | measure | 39,466 | 6.6% | 0.4 | 10 | \$54 | 72% | 20.8 |
| FE-WPP | Economizer for Walk-in Coolers | No Economizer | Education | Refrigeration | ROB | measure | 39,466 | 6.6% | 0.4 | 10 | \$54 | 72% | 20.7 |
| FE-WPP | Economizer for Walk-in Coolers | No Economizer | Education | Refrigeration | ROB | measure | 39,466 | 6.6% | 0.4 | 10 | \$54 | 72% | 20.8 |
| FE-WPP | Economizer for Walk-in Coolers | No Economizer | Education | Refrigeration | ROB | measure | 39,466 | 6.6% | 0.4 | 10 | \$54 | 72% | 20.8 |
| FE-WPP | eCube | Refrigeration unit w/out eCube | Education | Refrigeration | Existing | building | 21,590 | 15% | 0.2 | 15 | \$1,164 | 57% | 1.4 |
| FE-WPP | eCube | Refrigeration unit w/out eCube | Education | Refrigeration | New | building | 21,590 | 15% | 0.2 | 15 | \$1,164 | 57% | 1.4 |
| FE-WPP | Efficient compressor motor | Base Refrigeration System - Grocery | Education | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| FE-WPP | Efficient compressor motor | Base Refrigeration System - Grocery | Education | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| FE-WPP | Efficient compressor motor | Base Refrigeration System - Grocery | Education | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| FE-WPP | Efficient compressor motor | Base Refrigeration System - Grocery | Education | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| FE-WPP | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Education | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.5 |
| FE-WPP | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Education | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| FE-WPP | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Education | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| FE-WPP | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Education | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.3 |
| FE-WPP | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Education | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.7 |
| FE-WPP | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Education | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.7 |
| FE-WPP | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Education | Refrigeration | Existing | building | 21,590 | 1.3% | 0.01 | 10 | \$369 | 77% | 0.3 |
| FE-WPP | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Education | Refrigeration | New | building | 21,590 | 1.3% | 0.01 | 10 | \$369 | 77% | 0.3 |
| FE-WPP | Floating head pressure controller | System w/out FHPC | Education | Refrigeration | Existing | building | 12,394 | 1.9% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-WPP | Floating head pressure controller | System w/out FHPC | Education | Refrigeration | Existing | building | 4,398 | 2.1% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| FE-WPP | Floating head pressure controller | System w/out FHPC | Education | Refrigeration | Existing | building | 21,590 | 0.4% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| FE-WPP | Floating head pressure controller | System w/out FHPC | Education | Refrigeration | New | building | 12,394 | 1.9% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-WPP | Floating head pressure controller | System w/out FHPC | Education | Refrigeration | New | building | 4,398 | 2.1% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| FE-WPP | Floating head pressure controller | System w/out FHPC | Education | Refrigeration | New | building | 21,590 | 0.4% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| FE-WPP | High Efficiency Commercial Freezer | Std. Commercial Freezer | Education | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 86% | 0.3 |
| FE-WPP | High Efficiency Commercial Freezer | Std. Commercial Freezer | Education | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 3.6 |
| FE-WPP | High Efficiency Commercial Freezer | Std. Commercial Freezer | Education | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 3.6 |
| FE-WPP | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Education | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 21% | 0.1 |
| FE-WPP | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Education | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 21% | 0.8 |
| FE-WPP | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Education | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 21% | 0.8 |
| FE-WPP | High Efficiency Ice Maker | Existing Standard Efficiency Ice Maker in Pennsylvania | Education | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 73% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|---|-----------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | High Efficiency Ice Maker | Standard code minimum Ice Maker | Education | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| FE-WPP | High Efficiency Ice Maker | Standard code minimum Ice Maker | Education | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| FE-WPP | High Efficiency Ice Making Head | Standard Ice Making Head | Education | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.5 |
| FE-WPP | High Efficiency Ice Making Head | Standard Ice Making Head | Education | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.5 |
| FE-WPP | High R-Value Glass Doors | Base Refrigeration System - Grocery | Education | Refrigeration | Existing | building | 4,398 | 0.7% | 0.01 | 10 | \$57 | 0% | 0.3 |
| FE-WPP | High R-Value Glass Doors | Base Refrigeration System - Grocery | Education | Refrigeration | New | building | 4,398 | 0.7% | 0.01 | 10 | \$57 | 0% | 0.3 |
| FE-WPP | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Education | Refrigeration | Early | Fixture | 373 | 56% | 0.02 | 8 | \$448 | 66% | 0.2 |
| FE-WPP | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Education | Refrigeration | New | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 66% | 0.3 |
| FE-WPP | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Education | Refrigeration | ROB | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 66% | 0.3 |
| FE-WPP | No-heat glass doors | Standard low-temp reach-in | Education | Refrigeration | Existing | building | 4,398 | 20% | 0.2 | 10 | \$5,219 | 8% | 0.1 |
| FE-WPP | No-heat glass doors | Standard low-temp reach-in | Education | Refrigeration | New | building | 4,398 | 20% | 0.2 | 10 | \$5,219 | 8% | 0.1 |
| FE-WPP | Quick acting freezer doors | Std. Freezer Doors | Education | Refrigeration | Existing | building | 12,394 | 13% | 0.1 | 10 | \$3,205 | 56% | 0.2 |
| FE-WPP | Quick acting freezer doors | Std. Freezer Doors | Education | Refrigeration | New | building | 12,394 | 13% | 0.1 | 10 | \$3,205 | 56% | 0.2 |
| FE-WPP | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Education | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 30% | 0.4 |
| FE-WPP | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Education | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.5 |
| FE-WPP | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Education | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.5 |
| FE-WPP | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 30% | 1.5 |
| FE-WPP | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 2.6 |
| FE-WPP | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 2.6 |
| FE-WPP | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 30% | 1.5 |
| FE-WPP | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 3.5 |
| FE-WPP | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 3.5 |
| FE-WPP | Refrigeration Commissioning | Non-commissioned refrigeration system | Education | Refrigeration | Existing | building | 39,981 | 9.5% | 0.10 | 3 | \$8,955 | 85% | 0.1 |
| FE-WPP | Refrigeration Commissioning | Non-commissioned refrigeration system | Education | Refrigeration | New | building | 39,981 | 9.5% | 0.10 | 3 | \$8,955 | 85% | 0.1 |
| FE-WPP | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Education | Refrigeration | Existing | building | 12,394 | 8.2% | 0.08 | 4 | \$87 | 22% | 2.2 |
| FE-WPP | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Education | Refrigeration | Existing | building | 21,590 | 1.3% | 0.01 | 4 | \$94 | 22% | 0.5 |
| FE-WPP | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Education | Refrigeration | New | building | 12,394 | 8.2% | 0.08 | 4 | \$87 | 22% | 2.2 |
| FE-WPP | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Education | Refrigeration | New | building | 21,590 | 1.3% | 0.01 | 4 | \$94 | 22% | 0.5 |
| FE-WPP | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Education | Refrigeration | Existing | building | 12,394 | 1.9% | 0.02 | 11 | \$148 | 79% | 0.7 |
| FE-WPP | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Education | Refrigeration | New | building | 12,394 | 1.9% | 0.02 | 11 | \$148 | 79% | 0.7 |
| FE-WPP | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Education | Refrigeration | Existing | building | 21,590 | 1.4% | 0.01 | 11 | \$148 | 79% | 0.8 |
| FE-WPP | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Education | Refrigeration | New | building | 21,590 | 1.4% | 0.01 | 11 | \$148 | 79% | 0.8 |
| FE-WPP | Vertical Night Covers | Display cases w/out night covers-High Temperature | Education | Refrigeration | Existing | building | 4,398 | 0.2% | 0.00 | 5 | \$66 | 9% | 0.0 |
| FE-WPP | Vertical Night Covers | Display cases w/out night covers-High Temperature | Education | Refrigeration | New | building | 4,398 | 0.2% | 0.00 | 5 | \$66 | 9% | 0.0 |
| FE-WPP | VSD Controlled Compressor | Compressor w/out VSD | Education | Refrigeration | Early | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 63% | 0.1 |
| FE-WPP | VSD Controlled Compressor | Compressor w/out VSD | Education | Refrigeration | New | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 63% | 0.1 |
| FE-WPP | VSD Controlled Compressor | Compressor w/out VSD | Education | Refrigeration | ROB | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 63% | 0.1 |
| FE-WPP | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Education | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$269 | 35% | 0.8 |
| FE-WPP | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Education | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$269 | 35% | 0.8 |
| FE-WPP | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Education | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 2.8 |
| FE-WPP | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Education | Refrigeration | New | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 2.7 |
| FE-WPP | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Education | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 2.8 |
| FE-WPP | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Education | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 2.7 |
| FE-WPP | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 35% | 2.1 |
| FE-WPP | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 35% | 2.0 |
| FE-WPP | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 4.6 |
| FE-WPP | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.3 |
| FE-WPP | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 4.6 |
| FE-WPP | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.3 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Education | Space Heating | Existing | building | 31,675 | 7.1% | 0.07 | 6 | \$19,275 | 82% | 0.0 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Education | Space Heating | New | building | 31,675 | 7.1% | 0.07 | 6 | \$19,275 | 82% | 0.0 |
| FE-WPP | Adding window shade film | No shade film | Education | Space Heating | Existing | building | 31,675 | 1.3% | 0.4 | 10 | \$385 | 13% | 1.0 |
| FE-WPP | Adding window shade film | No shade film | Education | Space Heating | New | building | 31,675 | 1.3% | 0.4 | 10 | \$385 | 13% | 1.0 |
| FE-WPP | Adding window shade screen | No shade screen | Education | Space Heating | Existing | building | 31,675 | 1.1% | 0.01 | 10 | \$149 | 13% | 0.8 |
| FE-WPP | Adding window shade screen | No shade screen | Education | Space Heating | New | building | 31,675 | 1.1% | 0.01 | 10 | \$149 | 13% | 0.8 |
| FE-WPP | Automated control system | Manual Controls | Education | Space Heating | Existing | building | 31,675 | 17% | 0.2 | 15 | \$34,676 | 51% | 0.1 |
| FE-WPP | Automated control system | Manual Controls | Education | Space Heating | New | building | 31,675 | 17% | 0.2 | 15 | \$34,676 | 94% | 0.1 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Education | Space Heating | Existing | building | 31,675 | 1.6% | 0.02 | 15 | \$26,439 | 71% | 0.0 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Education | Space Heating | New | building | 31,675 | 0.5% | 0.01 | 15 | \$25,131 | 94% | 0.0 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Education | Space Heating | Existing | building | 31,675 | 1.4% | 0.04 | 15 | \$252 | 20% | 0.9 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Education | Space Heating | New | building | 31,675 | 1.4% | 0.04 | 15 | \$252 | 10% | 0.9 |
| FE-WPP | Efficient Unit Heating System | Existing Unit Heaters in PA | Education | Space Heating | Early | heater | 20,342 | 23% | 0.03 | 15 | \$3,289 | 83% | 0.7 |
| FE-WPP | Efficient Unit Heating System | Std. Unit Heater | Education | Space Heating | New | heater | 18,054 | 13% | 0.02 | 15 | \$1,991 | 83% | 0.6 |
| FE-WPP | Efficient Unit Heating System | Std. Unit Heater | Education | Space Heating | ROB | heater | 18,054 | 13% | 0.02 | 15 | \$1,991 | 83% | 0.6 |
| FE-WPP | Facility Commissioning | No Facility Commissioning | Education | Space Heating | New | building | 31,675 | 16% | 0.2 | 10 | \$5,234 | 89% | 0.3 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Education | Space Heating | Existing | building | 31,675 | 7.1% | 0.07 | 15 | \$140,502 | 25% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|--|--|-----------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Education | Space Heating | New | building | 31,675 | 7.1% | 0.07 | 15 | \$140,502 | 35% | 0.0 |
| FE-WPP | Hi Eff HVAC System Design | No HVAC Design | Education | Space Heating | New | building | 31,675 | 14% | 0.1 | 10 | \$77,679 | 51% | 0.0 |
| FE-WPP | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Education | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 0.9 |
| FE-WPP | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Education | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 0.9 |
| FE-WPP | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Education | Space Heating | Existing | building | 31,675 | 3.5% | 0.04 | 10 | \$7,735 | 81% | 0.1 |
| FE-WPP | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Education | Space Heating | New | building | 31,675 | 3.5% | 0.04 | 10 | \$7,735 | 81% | 0.1 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Education | Space Heating | Existing | building | 31,675 | 3.6% | 0.04 | 11 | \$286 | 49% | 1.5 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Education | Space Heating | New | building | 31,675 | 3.1% | 0.03 | 11 | \$146 | 49% | 2.5 |
| FE-WPP | Re-Commissioning (Existing Construction) | No Re-Commissioning | Education | Space Heating | Existing | building | 31,675 | 16% | 0.2 | 5 | \$9,680 | 86% | 0.1 |
| FE-WPP | VFD on Cooling Tower Fan | Motor w/out VFD | Education | Space Heating | Early | motor | 37,199 | 70% | 3.4 | 15 | \$2,843 | 88% | 5.3 |
| FE-WPP | VFD on Cooling Tower Fan | Motor w/out VFD | Education | Space Heating | New | motor | 36,503 | 72% | 3.3 | 15 | \$2,843 | 88% | 5.2 |
| FE-WPP | VFD on Cooling Tower Fan | Motor w/out VFD | Education | Space Heating | ROB | motor | 36,503 | 72% | 3.3 | 15 | \$2,843 | 88% | 5.2 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Education | Space Heating | Existing | building | 31,675 | 3.6% | 0.04 | 15 | \$6,377 | 26% | 0.1 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Education | Space Heating | New | building | 31,675 | 0.1% | 0.00 | 15 | \$4,891 | 94% | 0.0 |
| FE-WPP | Green LED Traffic Light | Green Incandescent Traffic Light | Education | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 0% | 1.1 |
| FE-WPP | Green LED Traffic Light | Green Incandescent Traffic Light | Education | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| FE-WPP | Green LED Traffic Light | Green Incandescent Traffic Light | Education | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| FE-WPP | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Education | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 0% | 2.8 |
| FE-WPP | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Education | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-WPP | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Education | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-WPP | Induction Street Lighting | One 100W HPS Street Light Fixture | Education | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 0% | 0.3 |
| FE-WPP | Induction Street Lighting | One 100W HPS Street Light Fixture | Education | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.6 |
| FE-WPP | Induction Street Lighting | One 100W HPS Street Light Fixture | Education | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.6 |
| FE-WPP | LED Street Lighting | One 100W HPS Street Light | Education | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 0% | 0.2 |
| FE-WPP | LED Street Lighting | One 100W HPS Street Light | Education | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-WPP | LED Street Lighting | One 100W HPS Street Light | Education | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-WPP | Red LED Traffic Light | One Red Incandescent Traffic Light | Education | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 0% | 1.5 |
| FE-WPP | Red LED Traffic Light | One Red Incandescent Traffic Light | Education | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| FE-WPP | Red LED Traffic Light | One Red Incandescent Traffic Light | Education | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| FE-WPP | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Education | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 0% | 0.1 |
| FE-WPP | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Education | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-WPP | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Education | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-WPP | Demand controlled Circulating Systems | Constant circulation system | Education | Water Heating | Existing | building | 29,764 | 20% | 0.2 | 15 | \$5,401 | 59% | 0.6 |
| FE-WPP | Demand controlled Circulating Systems | Constant circulation system | Education | Water Heating | New | building | 29,764 | 20% | 0.2 | 15 | \$7,254 | 59% | 0.4 |
| FE-WPP | Drainwater Heat Recovery Water Heater | No heat recovery | Education | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.7 |
| FE-WPP | Drainwater Heat Recovery Water Heater | No heat recovery | Education | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.7 |
| FE-WPP | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Education | Water Heating | Existing | building | 29,764 | 5.9% | 0.06 | 12 | \$210 | 85% | 3.6 |
| FE-WPP | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Education | Water Heating | New | building | 29,764 | 5.9% | 0.06 | 12 | \$60 | 85% | 12.5 |
| FE-WPP | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Education | Water Heating | Early | water heater | 46,899 | 66% | 5.5 | 10 | \$2,375 | 68% | 6.1 |
| FE-WPP | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Education | Water Heating | Early | water heater | 46,899 | 66% | 5.5 | 10 | \$2,375 | 68% | 6.1 |
| FE-WPP | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Education | Water Heating | New | water heater | 46,899 | 66% | 5.5 | 10 | \$2,375 | 68% | 6.1 |
| FE-WPP | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Education | Water Heating | New | water heater | 46,899 | 66% | 5.5 | 10 | \$2,375 | 68% | 6.1 |
| FE-WPP | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Education | Water Heating | ROB | water heater | 45,596 | 65% | 5.3 | 10 | \$2,375 | 68% | 5.8 |
| FE-WPP | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Education | Water Heating | ROB | water heater | 45,596 | 65% | 5.3 | 10 | \$2,375 | 68% | 5.8 |
| FE-WPP | Heat Recovery Unit | Base Water Heating | Education | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.5 |
| FE-WPP | Heat Recovery Unit | Base Water Heating | Education | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.5 |
| FE-WPP | Heat Trap | No Heat Trap | Education | Water Heating | Existing | building | 29,764 | 22% | 0.2 | 11 | \$203 | 50% | 13.0 |
| FE-WPP | Heat Trap | No Heat Trap | Education | Water Heating | New | building | 29,764 | 22% | 0.2 | 11 | \$30 | 50% | 87.4 |
| FE-WPP | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Education | Water Heating | Early | water heater | 46,899 | 5.9% | 0.5 | 15 | \$614 | 79% | 2.9 |
| FE-WPP | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Education | Water Heating | Early | water heater | 46,899 | 5.9% | 0.5 | 15 | \$614 | 79% | 2.9 |
| FE-WPP | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Education | Water Heating | New | water heater | 45,596 | 3.2% | 0.3 | 15 | \$614 | 79% | 1.5 |
| FE-WPP | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Education | Water Heating | New | water heater | 45,596 | 3.2% | 0.3 | 15 | \$614 | 79% | 1.5 |
| FE-WPP | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Education | Water Heating | ROB | water heater | 45,596 | 3.2% | 0.3 | 15 | \$614 | 79% | 1.5 |
| FE-WPP | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Education | Water Heating | ROB | water heater | 45,596 | 3.2% | 0.3 | 15 | \$614 | 79% | 1.5 |
| FE-WPP | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Education | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$466 | 81% | 36.2 |
| FE-WPP | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Education | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 18.9 |
| FE-WPP | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Education | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 18.9 |
| FE-WPP | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Education | Water Heating | Existing | building | 29,764 | 0.4% | 0.00 | 13 | \$16 | 68% | 3.5 |
| FE-WPP | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Education | Water Heating | New | building | 29,764 | 0.4% | 0.00 | 13 | \$16 | 0% | 3.5 |
| FE-WPP | Hot Water Circulation Pump Time-Clock | Constant circulation system | Education | Water Heating | Existing | building | 29,764 | 5.3% | 0.05 | 10 | \$120 | 72% | 4.9 |
| FE-WPP | Hot Water Circulation Pump Time-Clock | Constant circulation system | Education | Water Heating | New | building | 29,764 | 5.3% | 0.05 | 10 | \$120 | 72% | 4.9 |
| FE-WPP | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Education | Water Heating | Existing | building | 29,764 | 0.2% | 0.00 | 7 | \$22 | 78% | 0.9 |
| FE-WPP | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Education | Water Heating | New | building | 29,764 | 0.2% | 0.00 | 7 | \$0.5 | 78% | 36.5 |
| FE-WPP | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Education | Water Heating | Existing | building | 29,764 | 0.6% | 0.01 | 5 | \$300 | 20% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|--|---|-----------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Education | Water Heating | New | building | 29,764 | 0.4% | 0.00 | 5 | \$194 | 20% | 0.1 |
| FE-WPP | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Education | Water Heating | Existing | building | 29,764 | 6.5% | 0.07 | 9 | \$200 | 2% | 3.3 |
| FE-WPP | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Education | Water Heating | New | building | 29,764 | 6.5% | 0.07 | 9 | \$48 | 2% | 13.9 |
| FE-WPP | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Education | Water Heating | Early | water heater | 46,899 | 52% | 2.0 | 15 | \$12,444 | 32% | 1.1 |
| FE-WPP | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Education | Water Heating | New | water heater | 45,596 | 51% | 1.9 | 15 | \$12,444 | 32% | 1.0 |
| FE-WPP | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Education | Water Heating | ROB | water heater | 45,596 | 51% | 1.9 | 15 | \$12,444 | 32% | 1.0 |
| FE-WPP | Ultrasonic Faucet Control | Manual Faucet Control | Education | Water Heating | Existing | building | 29,764 | 3.0% | 0.03 | 10 | \$5,147 | 77% | 0.1 |
| FE-WPP | Ultrasonic Faucet Control | Manual Faucet Control | Education | Water Heating | New | building | 29,764 | 3.0% | 0.03 | 10 | \$5,147 | 77% | 0.1 |
| FE-WPP | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Education | Water Heating | Existing | building | 29,764 | 2.2% | 0.02 | 4 | \$28 | 83% | 4.3 |
| FE-WPP | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Education | Water Heating | New | building | 29,764 | 2.3% | 0.02 | 4 | \$28 | 83% | 4.4 |
| FE-WPP | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Gov't | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.0 |
| FE-WPP | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Gov't | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.0 |
| FE-WPP | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Gov't | Cooking | Early | steamer | 51 | 46% | 0.00 | 12 | \$5,053 | 81% | 0.0 |
| FE-WPP | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Gov't | Cooking | New | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-WPP | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Gov't | Cooking | ROB | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-WPP | Electric combination oven (Energy Star) | Standard Oven | Gov't | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.8 |
| FE-WPP | Electric combination oven (Energy Star) | Standard Oven | Gov't | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.8 |
| FE-WPP | Electric Convection Oven | Conventional convection oven w/ 65% efficiency | Gov't | Cooking | Early | oven | 8,641 | 37% | 0.6 | 12 | \$4,119 | 81% | 0.4 |
| FE-WPP | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Gov't | Cooking | New | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.7 |
| FE-WPP | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Gov't | Cooking | ROB | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.7 |
| FE-WPP | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Gov't | Cooking | Early | fryer | 6,105 | 23% | 0.3 | 12 | \$9,241 | 86% | 0.1 |
| FE-WPP | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Gov't | Cooking | New | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| FE-WPP | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Gov't | Cooking | ROB | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| FE-WPP | High Efficiency Griddle (ENERGY STAR) | Efficiency code minimum griddle (70% eff) | Gov't | Cooking | Early | griddle | 11,317 | 65% | 1.4 | 12 | \$4,977 | 86% | 0.8 |
| FE-WPP | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Gov't | Cooking | New | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.1 |
| FE-WPP | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Gov't | Cooking | ROB | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.1 |
| FE-WPP | High Efficiency Induction Cooking | Standard Cooking | Gov't | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-WPP | High Efficiency Induction Cooking | Standard Cooking | Gov't | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-WPP | Active chilled beam cooling | No Active Chilled beam cooling | Gov't | Cooling Central | New | building | 2,792 | 5.3% | 0.05 | 15 | \$730 | 72% | 0.2 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Gov't | Cooling Central | Existing | building | 2,939 | 7.0% | 0.07 | 6 | \$12,489 | 82% | 0.0 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Gov't | Cooling Central | New | building | 2,939 | 7.0% | 0.07 | 6 | \$12,489 | 82% | 0.0 |
| FE-WPP | Adding window shade film | No shade film | Gov't | Cooling Central | Existing | building | 2,939 | 1.3% | 0.4 | 10 | \$36 | 12% | 7.1 |
| FE-WPP | Adding window shade film | No shade film | Gov't | Cooling Central | New | building | 2,939 | 1.3% | 0.4 | 10 | \$36 | 13% | 7.1 |
| FE-WPP | Adding window shade screen | No shade screen | Gov't | Cooling Central | Existing | building | 2,939 | 1.1% | 0.01 | 10 | \$14 | 13% | 1.3 |
| FE-WPP | Adding window shade screen | No shade screen | Gov't | Cooling Central | New | building | 2,939 | 1.0% | 0.01 | 10 | \$14 | 13% | 1.3 |
| FE-WPP | Automated control system | Manual Controls | Gov't | Cooling Central | Existing | building | 2,939 | 17% | 0.2 | 15 | \$3,218 | 51% | 0.1 |
| FE-WPP | Automated control system | Manual Controls | Gov't | Cooling Central | New | building | 2,939 | 17% | 0.2 | 15 | \$3,218 | 94% | 0.1 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Gov't | Cooling Central | Existing | building | 2,939 | 3.4% | 0.03 | 15 | \$17,130 | 71% | 0.0 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Gov't | Cooling Central | New | building | 2,939 | 1.1% | 0.01 | 15 | \$16,283 | 94% | 0.0 |
| FE-WPP | Chilled Water Reset, Optimizer System for Chiller(s) | No Chilled Water Reset | Gov't | Cooling Central | Existing | building | 2,939 | 3.7% | 0.04 | 10 | \$13 | 69% | 4.7 |
| FE-WPP | Chiller Tune Up Diagnostics | No Chiller Tune Up | Gov't | Cooling Central | Existing | building | 2,939 | 2.3% | 0.02 | 10 | \$2.9 | 59% | 13.1 |
| FE-WPP | Chiller Tuneup/Diagnostics | No tuneup | Gov't | Cooling Central | Existing | building | 2,939 | 8.0% | 0.08 | 10 | \$7,505 | 59% | 0.0 |
| FE-WPP | Chiller Tuneup/Diagnostics | No tuneup | Gov't | Cooling Central | New | building | 2,939 | 8.0% | 0.08 | 10 | \$7,505 | 59% | 0.0 |
| FE-WPP | Cooling Tower Optimization | No Cooling Tower Optimization | Gov't | Cooling Central | Existing | building | 2,939 | 4.9% | 0.05 | 10 | \$13 | 73% | 6.2 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Gov't | Cooling Central | Existing | building | 2,939 | 1.4% | 0.04 | 15 | \$23 | 20% | 2.3 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Gov't | Cooling Central | New | building | 2,939 | 1.4% | 0.04 | 15 | \$23 | 10% | 2.3 |
| FE-WPP | Facility Commissioning | No Facility Commissioning | Gov't | Cooling Central | New | building | 2,939 | 16% | 0.2 | 10 | \$140,280 | 89% | 0.0 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Gov't | Cooling Central | Existing | building | 2,939 | 7.0% | 0.07 | 15 | \$13,038 | 25% | 0.0 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Gov't | Cooling Central | New | building | 2,939 | 7.0% | 0.07 | 15 | \$13,038 | 35% | 0.0 |
| FE-WPP | Hi Eff HVAC System Design | No HVAC Design | Gov't | Cooling Central | New | building | 2,939 | 7.3% | 0.07 | 10 | \$1,032,796 | 51% | 0.0 |
| FE-WPP | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Gov't | Cooling Central | Early | ton | 5,094 | 24% | 0.4 | 15 | \$108,550 | 88% | 0.0 |
| FE-WPP | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Gov't | Cooling Central | New | ton | 4,164 | 6.7% | 0.10 | 15 | \$12,927 | 88% | 0.0 |
| FE-WPP | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Gov't | Cooling Central | ROB | ton | 4,164 | 6.7% | 0.10 | 15 | \$12,927 | 88% | 0.0 |
| FE-WPP | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Gov't | Cooling Central | Early | ton | 7,611 | 23% | 0.6 | 15 | \$140,105 | 88% | 0.0 |
| FE-WPP | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Gov't | Cooling Central | New | ton | 6,124 | 4.8% | 0.1 | 15 | \$9,336 | 88% | 0.0 |
| FE-WPP | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Gov't | Cooling Central | ROB | ton | 6,124 | 4.8% | 0.1 | 15 | \$9,336 | 88% | 0.0 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Gov't | Cooling Central | Early | ton | 62,308 | 26% | 5.6 | 15 | \$105,354 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Gov't | Cooling Central | New | ton | 54,288 | 15% | 2.8 | 15 | \$30,530 | 88% | 0.2 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Gov't | Cooling Central | ROB | ton | 54,288 | 15% | 2.8 | 15 | \$30,530 | 88% | 0.2 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Gov't | Cooling Central | Early | ton | 93,320 | 23% | 7.4 | 15 | \$154,107 | 88% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|--|--|---------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Gov't | Cooling Central | New | ton | 85,726 | 16% | 4.8 | 15 | \$27,646 | 88% | 0.4 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Gov't | Cooling Central | ROB | ton | 93,320 | 23% | 7.4 | 15 | \$27,646 | 88% | 0.6 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Gov't | Cooling Central | Early | ton | 154,988 | 23% | 12.2 | 15 | \$302,924 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Gov't | Cooling Central | New | ton | 140,275 | 14% | 7.0 | 15 | \$115,432 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Gov't | Cooling Central | ROB | ton | 154,988 | 23% | 12.2 | 15 | \$115,432 | 88% | 0.2 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Gov't | Cooling Central | Early | ton | 185,985 | 23% | 14.6 | 15 | \$350,154 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Gov't | Cooling Central | New | ton | 168,330 | 14% | 8.5 | 15 | \$120,406 | 88% | 0.2 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Gov't | Cooling Central | ROB | ton | 185,985 | 23% | 14.6 | 15 | \$120,406 | 88% | 0.3 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Gov't | Cooling Central | Early | ton | 41,225 | 29% | 4.2 | 15 | \$83,632 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Gov't | Cooling Central | New | ton | 32,011 | 8.9% | 1.0 | 15 | \$40,211 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Gov't | Cooling Central | ROB | ton | 41,225 | 29% | 4.2 | 15 | \$40,211 | 88% | 0.2 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Gov't | Cooling Central | Early | ton | 70,835 | 35% | 8.6 | 15 | \$132,173 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Gov't | Cooling Central | New | ton | 52,831 | 13% | 2.3 | 15 | \$39,556 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Gov't | Cooling Central | ROB | ton | 52,831 | 13% | 2.3 | 15 | \$39,556 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Gov't | Cooling Central | Early | ton | 118,265 | 39% | 16.1 | 15 | \$187,029 | 88% | 0.2 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Gov't | Cooling Central | New | ton | 84,321 | 15% | 4.3 | 15 | \$33,554 | 88% | 0.3 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Gov't | Cooling Central | ROB | ton | 118,265 | 39% | 16.1 | 15 | \$33,554 | 88% | 1.1 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Gov't | Cooling Central | Early | ton | 20,695 | 30% | 2.1 | 15 | \$32,398 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Gov't | Cooling Central | New | ton | 16,396 | 11% | 0.6 | 15 | \$7,188 | 88% | 0.2 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Gov't | Cooling Central | ROB | ton | 20,695 | 30% | 2.1 | 15 | \$7,188 | 88% | 0.7 |
| FE-WPP | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Gov't | Cooling Central | Existing | building | 2,939 | 1.0% | 0.01 | 10 | \$41,268 | 81% | 0.0 |
| FE-WPP | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Gov't | Cooling Central | New | building | 2,939 | 1.0% | 0.01 | 10 | \$41,268 | 81% | 0.0 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Gov't | Cooling Central | Existing | building | 2,939 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.1 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Gov't | Cooling Central | New | building | 2,939 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.2 |
| FE-WPP | Re-Commissioning (Existing Construction) | No Re-Commissioning | Gov't | Cooling Central | Existing | building | 2,939 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Gov't | Cooling Central | Existing | building | 2,939 | 6.0% | 0.06 | 15 | \$3,285 | 26% | 0.0 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Gov't | Cooling Central | New | building | 2,939 | 0.2% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| FE-WPP | <65k BTU/hr 14 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Gov't | Cooling Unitary | Early | ton | 2,159 | 16% | 0.3 | 15 | \$1,545 | 29% | 0.3 |
| FE-WPP | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Gov't | Cooling Unitary | New | ton | 1,955 | 7.1% | 0.1 | 15 | \$339 | 29% | 0.5 |
| FE-WPP | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Gov't | Cooling Unitary | ROB | ton | 1,955 | 7.1% | 0.1 | 15 | \$339 | 29% | 0.5 |
| FE-WPP | <65k BTU/hr 15 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Gov't | Cooling Unitary | Early | ton | 2,159 | 22% | 0.4 | 15 | \$1,821 | 30% | 0.3 |
| FE-WPP | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Gov't | Cooling Unitary | New | ton | 1,955 | 13% | 0.2 | 15 | \$714 | 30% | 0.4 |
| FE-WPP | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Gov't | Cooling Unitary | ROB | ton | 1,955 | 13% | 0.2 | 15 | \$714 | 30% | 0.4 |
| FE-WPP | <65k BTU/hr 16 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Gov't | Cooling Unitary | Early | ton | 2,159 | 26% | 0.5 | 15 | \$2,098 | 31% | 0.3 |
| FE-WPP | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Gov't | Cooling Unitary | New | ton | 1,955 | 19% | 0.3 | 15 | \$1,089 | 31% | 0.4 |
| FE-WPP | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Gov't | Cooling Unitary | ROB | ton | 1,955 | 19% | 0.3 | 15 | \$1,089 | 31% | 0.4 |
| FE-WPP | >760k min 10.2 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Gov't | Cooling Unitary | Early | ton | 54,615 | 3.7% | 1.6 | 15 | \$68,066 | 56% | 0.0 |
| FE-WPP | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Gov't | Cooling Unitary | New | ton | 55,315 | 4.9% | 2.2 | 15 | \$6,231 | 56% | 0.5 |
| FE-WPP | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Gov't | Cooling Unitary | ROB | ton | 55,315 | 4.9% | 2.2 | 15 | \$6,231 | 56% | 0.5 |
| FE-WPP | 135-240k min 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Gov't | Cooling Unitary | Early | ton | 13,438 | 18% | 1.9 | 15 | \$18,135 | 79% | 0.2 |
| FE-WPP | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Gov't | Cooling Unitary | New | ton | 12,224 | 10.0% | 1.0 | 15 | \$1,948 | 79% | 0.7 |
| FE-WPP | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Gov't | Cooling Unitary | ROB | ton | 12,224 | 10.0% | 1.0 | 15 | \$1,948 | 79% | 0.7 |
| FE-WPP | 240k-760k min 11 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Gov't | Cooling Unitary | Early | ton | 35,931 | 9.0% | 2.6 | 15 | \$44,809 | 66% | 0.1 |
| FE-WPP | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Gov't | Cooling Unitary | New | ton | 36,020 | 9.3% | 2.6 | 15 | \$4,813 | 66% | 0.8 |
| FE-WPP | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Gov't | Cooling Unitary | ROB | ton | 36,020 | 9.3% | 2.6 | 15 | \$4,813 | 66% | 0.8 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|--|---------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | 65k-135k BTU/hr 12 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Gov't | Cooling Unitary | Early | ton | 7,922 | 17% | 1.1 | 15 | \$10,946 | 86% | 0.1 |
| FE-WPP | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Gov't | Cooling Unitary | New | ton | 7,060 | 6.7% | 0.4 | 15 | \$1,392 | 86% | 0.4 |
| FE-WPP | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Gov't | Cooling Unitary | ROB | ton | 7,060 | 6.7% | 0.4 | 15 | \$1,392 | 86% | 0.4 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Gov't | Cooling Unitary | Existing | building | 43,633 | 7.1% | 0.07 | 6 | \$12,489 | 82% | 0.1 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Gov't | Cooling Unitary | New | building | 43,633 | 7.1% | 0.07 | 6 | \$12,489 | 82% | 0.1 |
| FE-WPP | Adding window shade film | No shade film | Gov't | Cooling Unitary | Existing | building | 43,633 | 1.3% | 0.4 | 10 | \$531 | 12% | 0.8 |
| FE-WPP | Adding window shade film | No shade film | Gov't | Cooling Unitary | New | building | 43,633 | 1.3% | 0.4 | 10 | \$531 | 13% | 0.8 |
| FE-WPP | Adding window shade screen | No shade screen | Gov't | Cooling Unitary | Existing | building | 43,633 | 1.1% | 0.01 | 10 | \$205 | 12% | 0.8 |
| FE-WPP | Adding window shade screen | No shade screen | Gov't | Cooling Unitary | New | building | 43,633 | 1.1% | 0.01 | 10 | \$205 | 13% | 0.8 |
| FE-WPP | Automated control system | Manual Controls | Gov't | Cooling Unitary | Existing | building | 43,633 | 17% | 0.2 | 15 | \$47,768 | 51% | 0.1 |
| FE-WPP | Automated control system | Manual Controls | Gov't | Cooling Unitary | New | building | 43,633 | 17% | 0.2 | 15 | \$47,768 | 94% | 0.1 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Gov't | Cooling Unitary | Existing | building | 43,633 | 3.4% | 0.03 | 15 | \$17,130 | 71% | 0.0 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Gov't | Cooling Unitary | New | building | 43,633 | 1.1% | 0.01 | 15 | \$16,283 | 94% | 0.0 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Gov't | Cooling Unitary | Existing | building | 43,633 | 1.4% | 0.04 | 15 | \$347 | 20% | 1.0 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Gov't | Cooling Unitary | New | building | 43,633 | 1.4% | 0.04 | 15 | \$347 | 10% | 1.0 |
| FE-WPP | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Gov't | Cooling Unitary | Existing | building | 23,998 | 13% | 0.1 | 1 | \$230 | 73% | 0.7 |
| FE-WPP | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Gov't | Cooling Unitary | New | building | 23,998 | 13% | 0.1 | 1 | \$230 | 73% | 0.7 |
| FE-WPP | ECM Motors for split systems | Std Shaded Pole Motor | Gov't | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.7 |
| FE-WPP | ECM Motors for split systems | Std Shaded Pole Motor | Gov't | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.7 |
| FE-WPP | Facility Commissioning | No Facility Commissioning | Gov't | Cooling Unitary | New | building | 43,633 | 16% | 0.2 | 10 | \$1,294 | 89% | 2.0 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Gov't | Cooling Unitary | Existing | building | 43,633 | 7.1% | 0.07 | 15 | \$193,545 | 25% | 0.0 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Gov't | Cooling Unitary | New | building | 43,633 | 7.1% | 0.07 | 15 | \$193,545 | 35% | 0.0 |
| FE-WPP | Hi Eff HVAC System Design | No HVAC Design | Gov't | Cooling Unitary | New | building | 43,633 | 7.3% | 0.07 | 10 | \$13,038 | 51% | 0.1 |
| FE-WPP | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Gov't | Cooling Unitary | Existing | building | 43,633 | 5.0% | 0.05 | 5 | \$225 | 59% | 2.1 |
| FE-WPP | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Gov't | Cooling Unitary | Existing | building | 43,633 | 0.3% | 0.04 | 5 | \$225 | 51% | 0.2 |
| FE-WPP | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Gov't | Cooling Unitary | New | building | 43,633 | 0.2% | 0.04 | 5 | \$135 | 51% | 0.2 |
| FE-WPP | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Gov't | Cooling Unitary | Existing | building | 43,633 | 1.1% | 0.01 | 10 | \$44,351 | 86% | 0.0 |
| FE-WPP | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Gov't | Cooling Unitary | New | building | 43,633 | 1.1% | 0.01 | 10 | \$44,351 | 86% | 0.0 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) | Gov't | Cooling Unitary | Existing | building | 43,633 | 2.0% | 0.02 | 11 | \$286 | 49% | 1.2 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Gov't | Cooling Unitary | New | building | 43,633 | 1.7% | 0.02 | 11 | \$146 | 49% | 2.0 |
| FE-WPP | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Gov't | Cooling Unitary | Early | unit | 677 | 19% | 0.1 | 15 | \$849 | 85% | 0.2 |
| FE-WPP | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Gov't | Cooling Unitary | New | unit | 683 | 20% | 0.1 | 15 | \$356 | 85% | 0.5 |
| FE-WPP | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Gov't | Cooling Unitary | ROB | unit | 683 | 20% | 0.1 | 15 | \$356 | 85% | 0.5 |
| FE-WPP | Re-Commissioning (Existing Construction) | No Re-Commissioning | Gov't | Cooling Unitary | Existing | building | 43,633 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.2 |
| FE-WPP | Room AC (w/ louvered sides) | Existing efficiency Room AC in Pennsylvania (2000 Federal Standards) | Gov't | Cooling Unitary | Early | ton | 1,087 | 13% | 0.05 | 9 | \$348 | 82% | 0.2 |
| FE-WPP | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Gov't | Cooling Unitary | New | ton | 985 | 4.5% | 0.02 | 9 | \$17 | 82% | 1.4 |
| FE-WPP | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Gov't | Cooling Unitary | ROB | ton | 985 | 4.5% | 0.02 | 9 | \$17 | 82% | 1.4 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Gov't | Cooling Unitary | Existing | building | 43,633 | 6.0% | 0.06 | 15 | \$3,285 | 26% | 0.4 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Gov't | Cooling Unitary | New | building | 43,633 | 0.2% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| FE-WPP | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Gov't | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 1.0 |
| FE-WPP | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Gov't | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.3 |
| FE-WPP | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Gov't | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.3 |
| FE-WPP | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Gov't | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 80% | 0.2 |
| FE-WPP | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Gov't | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 80% | 0.2 |
| FE-WPP | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Gov't | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 80% | 0.2 |
| FE-WPP | LED exterior lighting | 250 Watt Incandescent | Gov't | Ext. Lighting | ROB | measure | 282 | 83% | 0.04 | 15 | \$104 | 89% | 1.4 |
| FE-WPP | LED exterior lighting | 250 Watt Incandescent | Gov't | Ext. Lighting | ROB | measure | 282 | 83% | 0.04 | 15 | \$104 | 89% | 1.4 |
| FE-WPP | LED exterior lighting | 250 Watt Incandescent | Gov't | Ext. Lighting | ROB | measure | 282 | 83% | 0.04 | 15 | \$104 | 89% | 1.4 |
| FE-WPP | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Gov't | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 75% | 0.3 |
| FE-WPP | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Gov't | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 75% | 0.2 |
| FE-WPP | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Gov't | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.6 |
| FE-WPP | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Gov't | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.0 |
| FE-WPP | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Gov't | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.6 |
| FE-WPP | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Gov't | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.0 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Gov't | Heat Pump | Existing | building | 4,533 | 6.9% | 0.07 | 6 | \$12,489 | 82% | 0.0 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Gov't | Heat Pump | New | building | 4,533 | 6.9% | 0.07 | 6 | \$12,489 | 82% | 0.0 |
| FE-WPP | Adding window shade film | No shade film | Gov't | Heat Pump | Existing | building | 4,533 | 3.9% | 0.4 | 10 | \$55 | 12% | 5.5 |
| FE-WPP | Adding window shade film | No shade film | Gov't | Heat Pump | New | building | 4,533 | 3.9% | 0.4 | 10 | \$55 | 12% | 5.5 |
| FE-WPP | Adding window shade screen | No shade screen | Gov't | Heat Pump | Existing | building | 4,533 | 0.3% | 0.01 | 10 | \$7.1 | 12% | 1.6 |
| FE-WPP | Adding window shade screen | No shade screen | Gov't | Heat Pump | New | building | 4,533 | 0.3% | 0.01 | 10 | \$7.1 | 12% | 1.6 |
| FE-WPP | Automated control system | Manual Controls | Gov't | Heat Pump | Existing | building | 4,533 | 17% | 0.2 | 15 | \$4,962 | 51% | 0.1 |
| FE-WPP | Automated control system | Manual Controls | Gov't | Heat Pump | New | building | 4,533 | 17% | 0.2 | 15 | \$4,962 | 94% | 0.1 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Gov't | Heat Pump | Existing | building | 4,533 | 3.4% | 0.03 | 15 | \$17,130 | 71% | 0.0 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Gov't | Heat Pump | New | building | 4,533 | 1.1% | 0.01 | 15 | \$16,283 | 94% | 0.0 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Gov't | Heat Pump | Existing | building | 4,533 | 4.0% | 0.04 | 15 | \$36 | 12% | 3.3 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Gov't | Heat Pump | New | building | 4,533 | 4.0% | 0.04 | 15 | \$36 | 6% | 3.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|--|--|---------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Gov't | Heat Pump | Early | heat pump | 2,431 | 12% | 0.02 | 15 | \$4,070 | 83% | 0.0 |
| FE-WPP | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Gov't | Heat Pump | New | heat pump | 2,332 | 7.9% | 0.02 | 15 | \$1,097 | 83% | 0.1 |
| FE-WPP | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Gov't | Heat Pump | ROB | heat pump | 2,332 | 7.9% | 0.02 | 15 | \$1,097 | 83% | 0.1 |
| FE-WPP | Facility Commissioning | No Facility Commissioning | Gov't | Heat Pump | New | building | 4,533 | 16% | 0.2 | 10 | \$140,280 | 89% | 0.0 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Gov't | Heat Pump | Existing | building | 4,533 | 7.0% | 0.07 | 15 | \$20,106 | 25% | 0.0 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Gov't | Heat Pump | New | building | 4,533 | 7.0% | 0.07 | 15 | \$20,106 | 35% | 0.0 |
| FE-WPP | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Gov't | Heat Pump | Early | heat pump | 24,809 | 15% | 0.3 | 15 | \$91,117 | 19% | 0.0 |
| FE-WPP | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Gov't | Heat Pump | New | heat pump | 24,024 | 12% | 0.3 | 15 | \$33,927 | 19% | 0.0 |
| FE-WPP | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Gov't | Heat Pump | ROB | heat pump | 24,024 | 12% | 0.3 | 15 | \$33,927 | 19% | 0.0 |
| FE-WPP | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Gov't | Heat Pump | Early | heat pump | 24,809 | 15% | 0.3 | 15 | \$58,356 | 19% | 0.0 |
| FE-WPP | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Gov't | Heat Pump | New | heat pump | 24,024 | 12% | 0.3 | 15 | \$1,167 | 19% | 1.4 |
| FE-WPP | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Gov't | Heat Pump | ROB | heat pump | 24,024 | 12% | 0.3 | 15 | \$1,167 | 19% | 1.4 |
| FE-WPP | Hi Eff HVAC System Design | No HVAC Design | Gov't | Heat Pump | New | building | 4,533 | 7.3% | 0.07 | 10 | \$1,032,796 | 51% | 0.0 |
| FE-WPP | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Gov't | Heat Pump | Early | heat pump | 6,483 | 16% | 0.09 | 12 | \$4,298 | 81% | 0.1 |
| FE-WPP | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Gov't | Heat Pump | New | heat pump | 6,218 | 12% | 0.07 | 12 | \$852 | 81% | 0.4 |
| FE-WPP | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Gov't | Heat Pump | ROB | heat pump | 6,218 | 12% | 0.07 | 12 | \$852 | 81% | 0.4 |
| FE-WPP | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Gov't | Heat Pump | Existing | building | 4,533 | 5.0% | 0.02 | 5 | \$90 | 51% | 0.6 |
| FE-WPP | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Gov't | Heat Pump | New | building | 4,533 | 5.0% | 0.02 | 5 | \$90 | 51% | 0.6 |
| FE-WPP | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Gov't | Heat Pump | Existing | building | 4,533 | 1.0% | 0.01 | 10 | \$39,486 | 81% | 0.0 |
| FE-WPP | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Gov't | Heat Pump | New | building | 4,533 | 1.0% | 0.01 | 10 | \$39,486 | 81% | 0.0 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Gov't | Heat Pump | Existing | building | 4,533 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.2 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Gov't | Heat Pump | New | building | 4,533 | 2.1% | 0.02 | 11 | \$146 | 49% | 0.3 |
| FE-WPP | Re-Commissioning (Existing Construction) | No Re-Commissioning | Gov't | Heat Pump | Existing | building | 4,533 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |
| FE-WPP | Wall Insultions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Gov't | Heat Pump | Existing | building | 4,533 | 6.0% | 0.06 | 15 | \$3,285 | 26% | 0.1 |
| FE-WPP | Wall Insultions (Going upto R 21) | Code minimum Wall Insulations | Gov't | Heat Pump | New | building | 4,533 | 0.2% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| FE-WPP | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Gov't | Heat Pump | Early | heat pump | 10,524 | 36% | 0.3 | 15 | \$35,347 | 28% | 0.1 |
| FE-WPP | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Gov't | Heat Pump | New | heat pump | 10,078 | 34% | 0.3 | 15 | \$15,739 | 28% | 0.1 |
| FE-WPP | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Gov't | Heat Pump | ROB | heat pump | 10,078 | 34% | 0.3 | 15 | \$15,739 | 28% | 0.1 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Gov't | High Bay Lighting | Early | Fixture | 299 | 9.6% | 0.01 | 13 | \$850 | 39% | 0.0 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Gov't | High Bay Lighting | Early | Fixture | 299 | 9.5% | 0.01 | 13 | \$850 | 28% | 0.0 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Gov't | High Bay Lighting | Early | Fixture | 461 | 41% | 0.04 | 13 | \$850 | 36% | 0.1 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Gov't | High Bay Lighting | New | Fixture | 227 | 9.6% | 0.00 | 13 | \$372 | 39% | 0.0 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Gov't | High Bay Lighting | New | Fixture | 211 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Gov't | High Bay Lighting | New | Fixture | 350 | 41% | 0.03 | 13 | \$397 | 36% | 0.2 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Gov't | High Bay Lighting | ROB | Fixture | 299 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.0 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Gov't | High Bay Lighting | ROB | Fixture | 278 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Gov't | High Bay Lighting | ROB | Fixture | 461 | 41% | 0.04 | 13 | \$397 | 36% | 0.3 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Gov't | High Bay Lighting | Early | Fixture | 580 | 19% | 0.02 | 13 | \$851 | 38% | 0.1 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Gov't | High Bay Lighting | Early | Fixture | 587 | 20% | 0.02 | 13 | \$851 | 38% | 0.1 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | Early | Fixture | 1,708 | 73% | 0.2 | 13 | \$851 | 38% | 0.8 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Gov't | High Bay Lighting | New | Fixture | 441 | 19% | 0.02 | 13 | \$372 | 38% | 0.1 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | New | Fixture | 1,298 | 73% | 0.2 | 13 | \$383 | 38% | 1.4 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Gov't | High Bay Lighting | ROB | Fixture | 580 | 19% | 0.02 | 13 | \$372 | 38% | 0.2 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | ROB | Fixture | 1,708 | 73% | 0.2 | 13 | \$383 | 38% | 1.9 |
| FE-WPP | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Gov't | High Bay Lighting | Early | Fixture | 580 | 25% | 0.03 | 13 | \$554 | 29% | 0.2 |
| FE-WPP | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Gov't | High Bay Lighting | Early | Fixture | 569 | 23% | 0.03 | 13 | \$554 | 28% | 0.1 |
| FE-WPP | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | Early | Fixture | 1,708 | 74% | 0.2 | 13 | \$554 | 36% | 1.3 |
| FE-WPP | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Gov't | High Bay Lighting | New | Fixture | 441 | 25% | 0.02 | 13 | \$75 | 29% | 0.8 |
| FE-WPP | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | New | Fixture | 1,298 | 74% | 0.2 | 13 | \$86 | 36% | 6.6 |
| FE-WPP | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Gov't | High Bay Lighting | ROB | Fixture | 580 | 25% | 0.03 | 13 | \$75 | 29% | 1.1 |
| FE-WPP | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | ROB | Fixture | 1,708 | 74% | 0.2 | 13 | \$86 | 36% | 8.7 |
| FE-WPP | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Gov't | High Bay Lighting | Early | Fixture | 151 | 0.2% | 0.00 | 13 | \$835 | 38% | 0.0 |
| FE-WPP | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Gov't | High Bay Lighting | Early | Fixture | 326 | 54% | 0.03 | 13 | \$835 | 38% | 0.1 |
| FE-WPP | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Gov't | High Bay Lighting | New | Fixture | 248 | 54% | 0.03 | 13 | \$382 | 38% | 0.2 |
| FE-WPP | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Gov't | High Bay Lighting | ROB | Fixture | 326 | 54% | 0.03 | 13 | \$382 | 38% | 0.3 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Gov't | High Bay Lighting | Early | Fixture | 739 | 18% | 0.03 | 13 | \$487 | 25% | 0.2 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Gov't | High Bay Lighting | Early | Fixture | 773 | 22% | 0.03 | 13 | \$487 | 28% | 0.2 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | Early | Fixture | 1,708 | 65% | 0.2 | 13 | \$487 | 36% | 1.3 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Gov't | High Bay Lighting | New | Fixture | 562 | 18% | 0.02 | 13 | \$16 | 25% | 3.7 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | New | Fixture | 1,298 | 65% | 0.2 | 13 | \$18 | 36% | 26.6 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Gov't | High Bay Lighting | ROB | Fixture | 739 | 18% | 0.03 | 13 | \$16 | 25% | 4.8 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | ROB | Fixture | 1,708 | 65% | 0.2 | 13 | \$18 | 36% | 35.0 |
| FE-WPP | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Gov't | High Bay Lighting | Early | Fixture | 739 | 1.5% | 0.00 | 13 | \$557 | 19% | 0.0 |
| FE-WPP | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Gov't | High Bay Lighting | Early | Fixture | 761 | 4.3% | 0.01 | 13 | \$557 | 19% | 0.0 |
| FE-WPP | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | Early | Fixture | 1,708 | 57% | 0.2 | 13 | \$557 | 19% | 1.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|---|---------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Gov't | High Bay Lighting | New | Fixture | 562 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| FE-WPP | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | New | Fixture | 1,298 | 57% | 0.1 | 13 | \$88 | 19% | 4.9 |
| FE-WPP | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Gov't | High Bay Lighting | ROB | Fixture | 739 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| FE-WPP | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | ROB | Fixture | 1,708 | 57% | 0.2 | 13 | \$88 | 19% | 6.5 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Gov't | High Bay Lighting | Early | Fixture | 314 | 29% | 0.01 | 13 | \$492 | 71% | 0.1 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Gov't | High Bay Lighting | Early | Fixture | 262 | 15% | 0.01 | 13 | \$492 | 95% | 0.0 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Gov't | High Bay Lighting | Early | Fixture | 390 | 43% | 0.02 | 13 | \$492 | 95% | 0.2 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Gov't | High Bay Lighting | Early | Fixture | 361 | 38% | 0.02 | 13 | \$492 | 95% | 0.2 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Gov't | High Bay Lighting | New | Fixture | 199 | 15% | 0.00 | 13 | \$25 | 95% | 0.6 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Gov't | High Bay Lighting | New | Fixture | 296 | 43% | 0.02 | 13 | \$51 | 95% | 1.3 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Gov't | High Bay Lighting | ROB | Fixture | 262 | 15% | 0.01 | 13 | \$25 | 95% | 0.9 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Gov't | High Bay Lighting | ROB | Fixture | 390 | 43% | 0.02 | 13 | \$51 | 95% | 1.7 |
| FE-WPP | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Gov't | High Bay Lighting | Early | lamp | 114 | 16% | 0.00 | 9 | \$7.7 | 99% | 1.0 |
| FE-WPP | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Gov't | High Bay Lighting | New | lamp | 68 | 13% | 0.00 | 9 | \$1.6 | 91% | 2.3 |
| FE-WPP | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Gov't | High Bay Lighting | ROB | lamp | 110 | 13% | 0.00 | 9 | \$1.6 | 91% | 3.7 |
| FE-WPP | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Gov't | High Bay Lighting | Early | Fixture | 1,748 | 23% | 0.08 | 13 | \$613 | 5% | 0.4 |
| FE-WPP | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Gov't | High Bay Lighting | Early | Fixture | 1,373 | 1.6% | 0.00 | 13 | \$613 | 28% | 0.0 |
| FE-WPP | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | Early | Fixture | 3,417 | 60% | 0.4 | 13 | \$613 | 18% | 2.0 |
| FE-WPP | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Gov't | High Bay Lighting | New | Fixture | 1,329 | 23% | 0.06 | 13 | \$96 | 5% | 1.8 |
| FE-WPP | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Gov't | High Bay Lighting | ROB | Fixture | 1,748 | 23% | 0.08 | 13 | \$96 | 5% | 2.4 |
| FE-WPP | Auto Off Time Switch | Lighting w/ No Controls | Gov't | High Bay Lighting | Existing | building | 571 | 24% | 0.2 | 8 | \$1,034 | 13% | 0.2 |
| FE-WPP | Auto Off Time Switch | Lighting w/ No Controls | Gov't | High Bay Lighting | New | building | 571 | 6.9% | 0.07 | 8 | \$1,034 | 0% | 0.0 |
| FE-WPP | Central Lighting Control System | Lighting w/ No Controls | Gov't | High Bay Lighting | Existing | building | 571 | 38% | 0.4 | 8 | \$1,034 | 13% | 0.3 |
| FE-WPP | Central Lighting Control System | Lighting w/ No Controls | Gov't | High Bay Lighting | New | building | 571 | 14% | 0.1 | 8 | \$1,034 | 13% | 0.1 |
| FE-WPP | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Gov't | High Bay Lighting | New | building | 571 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.0 |
| FE-WPP | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Gov't | High Bay Lighting | New | building | 571 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |
| FE-WPP | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Gov't | High Bay Lighting | New | building | 571 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| FE-WPP | Indoor Daylight Sensors | Lighting w/ No Controls | Gov't | High Bay Lighting | Existing | building | 571 | 28% | 0.3 | 8 | \$5,088 | 13% | 0.0 |
| FE-WPP | Indoor Daylight Sensors | Lighting w/ No Controls | Gov't | High Bay Lighting | New | building | 571 | 4.0% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| FE-WPP | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Gov't | High Bay Lighting | Early | Fixture | 1,748 | 92% | 0.3 | 13 | \$1,916 | 95% | 0.5 |
| FE-WPP | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | Early | Fixture | 3,417 | 96% | 0.6 | 13 | \$1,916 | 95% | 1.0 |
| FE-WPP | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Gov't | High Bay Lighting | New | Fixture | 1,329 | 92% | 0.2 | 13 | \$1,468 | 95% | 0.5 |
| FE-WPP | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | New | Fixture | 2,597 | 96% | 0.5 | 13 | \$1,149 | 95% | 1.3 |
| FE-WPP | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Gov't | High Bay Lighting | ROB | Fixture | 1,748 | 92% | 0.3 | 13 | \$1,468 | 95% | 0.6 |
| FE-WPP | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | ROB | Fixture | 3,417 | 96% | 0.6 | 13 | \$1,149 | 95% | 1.7 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Gov't | High Bay Lighting | Early | Fixture | 580 | 67% | 0.07 | 13 | \$960 | 95% | 0.2 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Gov't | High Bay Lighting | Early | Fixture | 1,708 | 89% | 0.3 | 13 | \$960 | 95% | 0.9 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Gov't | High Bay Lighting | Early | Fixture | 469 | 59% | 0.05 | 13 | \$960 | 95% | 0.2 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Gov't | High Bay Lighting | New | Fixture | 441 | 67% | 0.06 | 13 | \$480 | 95% | 0.4 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Gov't | High Bay Lighting | New | Fixture | 1,298 | 89% | 0.2 | 13 | \$491 | 95% | 1.4 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Gov't | High Bay Lighting | New | Fixture | 356 | 59% | 0.04 | 13 | \$406 | 95% | 0.3 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Gov't | High Bay Lighting | ROB | Fixture | 580 | 67% | 0.07 | 13 | \$480 | 95% | 0.5 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Gov't | High Bay Lighting | ROB | Fixture | 1,708 | 89% | 0.3 | 13 | \$491 | 95% | 1.8 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Gov't | High Bay Lighting | ROB | Fixture | 469 | 59% | 0.05 | 13 | \$406 | 95% | 0.4 |
| FE-WPP | Occupancy Sensor | Lighting w/ No Controls | Gov't | High Bay Lighting | Existing | building | 571 | 24% | 0.2 | 8 | \$1,558 | 11% | 0.1 |
| FE-WPP | Occupancy Sensor | Lighting w/ No Controls | Gov't | High Bay Lighting | New | building | 571 | 6.9% | 0.07 | 8 | \$1,558 | 0% | 0.0 |
| FE-WPP | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Gov't | High Bay Lighting | Existing | building | 571 | 28% | 0.3 | 8 | \$5,088 | 11% | 0.0 |
| FE-WPP | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Gov't | High Bay Lighting | New | building | 571 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| FE-WPP | Time Clock Control | Lighting w/ No Controls | Gov't | High Bay Lighting | Existing | building | 571 | 28% | 0.3 | 8 | \$1,034 | 13% | 0.2 |
| FE-WPP | Time Clock Control | Lighting w/ No Controls | Gov't | High Bay Lighting | New | building | 571 | 4.1% | 0.04 | 8 | \$1,034 | 0% | 0.0 |
| FE-WPP | Auto Off Time Switch | Lighting w/ No Controls | Gov't | Lin. Fluor. Lighting | Existing | building | 17,863 | 24% | 0.2 | 8 | \$1,034 | 13% | 1.4 |
| FE-WPP | Auto Off Time Switch | Lighting w/ No Controls | Gov't | Lin. Fluor. Lighting | New | building | 17,863 | 7.0% | 0.07 | 8 | \$1,034 | 0% | 0.4 |
| FE-WPP | Central Lighting Control System | Lighting w/ No Controls | Gov't | Lin. Fluor. Lighting | Existing | building | 17,863 | 38% | 0.4 | 8 | \$1,034 | 12% | 2.2 |
| FE-WPP | Central Lighting Control System | Lighting w/ No Controls | Gov't | Lin. Fluor. Lighting | New | building | 17,863 | 14% | 0.1 | 8 | \$1,034 | 12% | 0.8 |
| FE-WPP | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Gov't | Lin. Fluor. Lighting | New | building | 17,863 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.0 |
| FE-WPP | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Gov't | Lin. Fluor. Lighting | New | building | 17,863 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |
| FE-WPP | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Gov't | Lin. Fluor. Lighting | New | building | 17,863 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| FE-WPP | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Gov't | Lin. Fluor. Lighting | Early | Lamp | 229 | 38% | 0.01 | 9 | \$7.3 | 94% | 5.0 |
| FE-WPP | Indoor Daylight Sensors | Lighting w/ No Controls | Gov't | Lin. Fluor. Lighting | Existing | building | 17,863 | 28% | 0.3 | 8 | \$5,088 | 13% | 0.3 |
| FE-WPP | Indoor Daylight Sensors | Lighting w/ No Controls | Gov't | Lin. Fluor. Lighting | New | building | 17,863 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | Early | Lamp | 38 | 19% | 0.00 | 15 | \$35 | 94% | 0.1 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 40W T12 Lamp, Magnetic Ballast | Gov't | Lin. Fluor. Lighting | Early | Lamp | 83 | 63% | 0.01 | 15 | \$35 | 94% | 1.0 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | Early | Lamp | 46 | 34% | 0.00 | 15 | \$35 | 94% | 0.3 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | Early | Lamp | 45 | 32% | 0.00 | 15 | \$35 | 94% | 0.3 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | New | Lamp | 29 | 19% | 0.00 | 15 | \$28 | 94% | 0.1 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | New | Lamp | 34 | 32% | 0.00 | 15 | \$29 | 94% | 0.2 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | New | Lamp | 35 | 34% | 0.00 | 15 | \$22 | 94% | 0.4 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | New | Lamp | 34 | 32% | 0.00 | 15 | \$29 | 94% | 0.2 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | ROB | Lamp | 38 | 19% | 0.00 | 15 | \$28 | 94% | 0.2 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | ROB | Lamp | 45 | 32% | 0.00 | 15 | \$29 | 94% | 0.3 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | ROB | Lamp | 46 | 34% | 0.00 | 15 | \$22 | 94% | 0.5 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|--|--|---------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | ROB | Lamp | 45 | 32% | 0.00 | 15 | \$29 | 94% | 0.3 |
| FE-WPP | Occupancy Sensor | Lighting w/ No Controls | Gov't | Lin. Fluor. Lighting | Existing | building | 17,863 | 24% | 0.2 | 8 | \$1,558 | 12% | 0.9 |
| FE-WPP | Occupancy Sensor | Lighting w/ No Controls | Gov't | Lin. Fluor. Lighting | New | building | 17,863 | 7.0% | 0.07 | 8 | \$1,558 | 0% | 0.3 |
| FE-WPP | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Gov't | Lin. Fluor. Lighting | Existing | building | 17,863 | 28% | 0.3 | 8 | \$5,088 | 11% | 0.3 |
| FE-WPP | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Gov't | Lin. Fluor. Lighting | New | building | 17,863 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 40W T12 w/ Magnetic Ballast | Gov't | Lin. Fluor. Lighting | Early | Lamp | 229 | 54% | 0.02 | 9 | \$9.1 | 94% | 5.7 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | Early | Lamp | 147 | 28% | 0.01 | 9 | \$9.1 | 24% | 1.9 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | Early | Lamp | 142 | 26% | 0.01 | 9 | \$9.1 | 94% | 1.7 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | New | Lamp | 108 | 26% | 0.00 | 9 | \$2.5 | 94% | 4.6 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | New | Lamp | 108 | 26% | 0.00 | 9 | \$2.5 | 94% | 4.6 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | New | Lamp | 112 | 28% | 0.00 | 9 | \$2.5 | 24% | 5.2 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | New | Lamp | 108 | 26% | 0.00 | 9 | \$2.5 | 94% | 4.6 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | ROB | Lamp | 142 | 26% | 0.01 | 9 | \$2.5 | 94% | 6.1 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | ROB | Lamp | 142 | 26% | 0.01 | 9 | \$2.5 | 94% | 6.1 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | ROB | Lamp | 147 | 28% | 0.01 | 9 | \$2.5 | 24% | 6.8 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | ROB | Lamp | 142 | 26% | 0.01 | 9 | \$2.5 | 94% | 6.1 |
| FE-WPP | T8 Lamp (any length) Electronic Ballast | Standard T12 lamp (any length) | Gov't | Lin. Fluor. Lighting | Early | Lamp | 270 | 42% | 0.02 | 9 | \$14 | 94% | 3.4 |
| FE-WPP | Time Clock Control | Lighting w/ No Controls | Gov't | Lin. Fluor. Lighting | Existing | building | 17,863 | 28% | 0.3 | 8 | \$1,034 | 14% | 1.6 |
| FE-WPP | Time Clock Control | Lighting w/ No Controls | Gov't | Lin. Fluor. Lighting | New | building | 17,863 | 4.1% | 0.04 | 8 | \$1,034 | 0% | 0.2 |
| FE-WPP | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | Early | motor | 3,491 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| FE-WPP | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | Early | motor | 3,491 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| FE-WPP | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | Early | motor | 3,491 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| FE-WPP | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | Early | motor | 3,491 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| FE-WPP | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | Early | motor | 3,491 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| FE-WPP | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | New | motor | 3,384 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-WPP | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | New | motor | 3,384 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-WPP | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | New | motor | 3,384 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-WPP | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | New | motor | 3,384 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-WPP | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | ROB | motor | 3,384 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-WPP | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | ROB | motor | 3,384 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-WPP | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | ROB | motor | 3,384 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-WPP | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | ROB | motor | 3,384 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-WPP | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | ROB | motor | 3,384 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-WPP | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | Early | motor | 5,147 | 3.1% | 0.02 | 15 | \$402 | 76% | 0.2 |
| FE-WPP | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | Early | motor | 5,147 | 3.1% | 0.02 | 15 | \$402 | 76% | 0.2 |
| FE-WPP | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | Early | motor | 5,147 | 3.1% | 0.02 | 15 | \$402 | 76% | 0.2 |
| FE-WPP | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | Early | motor | 5,147 | 3.1% | 0.02 | 15 | \$402 | 76% | 0.2 |
| FE-WPP | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | Early | motor | 5,147 | 3.1% | 0.02 | 15 | \$402 | 76% | 0.2 |
| FE-WPP | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | New | motor | 5,018 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.3 |
| FE-WPP | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | New | motor | 5,018 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.3 |
| FE-WPP | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | New | motor | 5,018 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.3 |
| FE-WPP | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | New | motor | 5,018 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.3 |
| FE-WPP | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | New | motor | 5,018 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.3 |
| FE-WPP | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | ROB | motor | 5,018 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.3 |
| FE-WPP | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | ROB | motor | 5,018 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.3 |
| FE-WPP | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | ROB | motor | 5,018 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.3 |
| FE-WPP | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | ROB | motor | 5,018 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.3 |
| FE-WPP | 100 HP Motor, Ultra-PE | 100 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | Early | motor | 306,966 | 1.7% | 0.7 | 15 | \$5,100 | 47% | 0.6 |
| FE-WPP | 100 HP Motor, Ultra-PE | 100 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | Early | motor | 306,966 | 1.7% | 0.7 | 15 | \$5,100 | 47% | 0.6 |
| FE-WPP | 100 HP Motor, Ultra-PE | 100 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | Early | motor | 306,966 | 1.7% | 0.7 | 15 | \$5,100 | 47% | 0.6 |
| FE-WPP | 100 HP Motor, Ultra-PE | 100 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | Early | motor | 306,966 | 1.7% | 0.8 | 15 | \$5,100 | 47% | 0.6 |
| FE-WPP | 100 HP Motor, Ultra-PE | 100 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | Early | motor | 306,966 | 1.7% | 0.7 | 15 | \$5,100 | 47% | 0.6 |
| FE-WPP | 100 HP Motor, Ultra-PE | 100 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | New | motor | 303,326 | 0.5% | 0.2 | 15 | \$658 | 47% | 1.4 |
| FE-WPP | 100 HP Motor, Ultra-PE | 100 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | New | motor | 303,326 | 0.5% | 0.2 | 15 | \$658 | 47% | 1.4 |
| FE-WPP | 100 HP Motor, Ultra-PE | 100 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | New | motor | 303,326 | 0.5% | 0.2 | 15 | \$658 | 47% | 1.4 |
| FE-WPP | 100 HP Motor, Ultra-PE | 100 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | New | motor | 303,326 | 0.5% | 0.2 | 15 | \$658 | 47% | 1.5 |
| FE-WPP | 100 HP Motor, Ultra-PE | 100 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | New | motor | 303,326 | 0.5% | 0.2 | 15 | \$658 | 47% | 1.4 |
| FE-WPP | 100 HP Motor, Ultra-PE | 100 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | ROB | motor | 303,326 | 0.5% | 0.2 | 15 | \$658 | 47% | 1.4 |
| FE-WPP | 100 HP Motor, Ultra-PE | 100 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | ROB | motor | 303,326 | 0.5% | 0.2 | 15 | \$658 | 47% | 1.4 |
| FE-WPP | 100 HP Motor, Ultra-PE | 100 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | ROB | motor | 303,326 | 0.5% | 0.2 | 15 | \$658 | 47% | 1.4 |
| FE-WPP | 100 HP Motor, Ultra-PE | 100 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | ROB | motor | 303,326 | 0.5% | 0.2 | 15 | \$658 | 47% | 1.4 |
| FE-WPP | 100 HP Motor, Ultra-PE | 100 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | ROB | motor | 303,326 | 0.5% | 0.2 | 15 | \$658 | 47% | 1.4 |
| FE-WPP | 125 HP Motor, Ultra-PE | 125 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | Early | motor | 382,296 | 1.3% | 0.7 | 15 | \$5,935 | 47% | 0.5 |
| FE-WPP | 125 HP Motor, Ultra-PE | 125 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | Early | motor | 382,296 | 1.3% | 0.7 | 15 | \$5,935 | 47% | 0.5 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|--|---------|---------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Gov't | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 21.3 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Gov't | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 21.7 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Gov't | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 22.1 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Gov't | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 20.2 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Gov't | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 20.6 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Gov't | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 21.3 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Gov't | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 21.4 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Gov't | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 22.2 |
| FE-WPP | Energy Efficient Laboratory Fume Hood | Std. Fume Hood | Gov't | Motors | New | measure | 22,500 | 1.1% | 0.03 | 15 | \$111 | 17% | 1.2 |
| FE-WPP | Energy Efficient Laboratory Fume Hood | Std. Fume Hood | Gov't | Motors | ROB | measure | 22,500 | 1.1% | 0.03 | 15 | \$111 | 17% | 1.2 |
| FE-WPP | Escalator Motor Controller | Constant power control | Gov't | Motors | New | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 45% | 5.5 |
| FE-WPP | Escalator Motor Controller | Constant power control | Gov't | Motors | ROB | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 45% | 5.6 |
| FE-WPP | Fan Motor - correct sizing | Incorrect Fan Motor Sizing | Gov't | Motors | ROB | measure | 18,873 | 2.9% | 0.06 | 15 | \$36,818 | 92% | 0.0 |
| FE-WPP | Variable Speed Drive Control, 15HP | Existing Motors w/out VSD Drive | Gov't | Motors | Early | motor | 47,699 | 70% | 4.9 | 15 | \$731 | 86% | 28.2 |
| FE-WPP | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Gov't | Motors | New | motor | 46,673 | 71% | 4.9 | 15 | \$731 | 86% | 28.1 |
| FE-WPP | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Gov't | Motors | ROB | motor | 46,673 | 71% | 4.9 | 15 | \$731 | 86% | 28.1 |
| FE-WPP | Variable Speed Drive Control, 40HP | Existing Motors w/out VSD Drive | Gov't | Motors | Early | motor | 124,462 | 71% | 13.0 | 15 | \$4,666 | 86% | 11.6 |
| FE-WPP | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Gov't | Motors | New | motor | 123,007 | 72% | 12.9 | 15 | \$4,666 | 86% | 11.6 |
| FE-WPP | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Gov't | Motors | ROB | motor | 123,007 | 72% | 12.9 | 15 | \$4,666 | 86% | 11.6 |
| FE-WPP | Variable Speed Drive Control, 5HP | Existing Motors w/out VFD Drive | Gov't | Motors | Early | motor | 16,536 | 72% | 1.7 | 15 | \$2,243 | 86% | 3.2 |
| FE-WPP | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Gov't | Motors | New | motor | 16,166 | 72% | 1.7 | 15 | \$2,243 | 86% | 3.2 |
| FE-WPP | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Gov't | Motors | ROB | motor | 16,166 | 72% | 1.7 | 15 | \$2,243 | 86% | 3.2 |
| FE-WPP | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Gov't | Motors | Early | motor | 16,851 | 6.7% | 0.1 | 15 | \$268 | 13% | 2.5 |
| FE-WPP | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Gov't | Motors | New | motor | 16,851 | 6.7% | 0.1 | 15 | \$268 | 13% | 2.5 |
| FE-WPP | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Gov't | Motors | ROB | motor | 16,851 | 6.7% | 0.1 | 15 | \$268 | 13% | 2.5 |
| FE-WPP | VFD on Chilled Water Pump | Motor w/out VFD Drive | Gov't | Motors | Early | motor | 16,590 | 55% | 1.2 | 15 | \$2,903 | 86% | 1.8 |
| FE-WPP | VFD on Chilled Water Pump | Motor w/out VFD Drive | Gov't | Motors | New | motor | 16,280 | 55% | 1.2 | 15 | \$2,843 | 86% | 1.9 |
| FE-WPP | VFD on Chilled Water Pump | Motor w/out VFD Drive | Gov't | Motors | ROB | motor | 16,280 | 55% | 1.2 | 15 | \$2,843 | 86% | 1.9 |
| FE-WPP | VFD on Condenser Water Pump | Motor w/out VFD Drive | Gov't | Motors | Early | motor | 18,641 | 32% | 0.8 | 15 | \$2,903 | 86% | 1.2 |
| FE-WPP | VFD on Condenser Water Pump | Motor w/out VFD Drive | Gov't | Motors | New | motor | 18,292 | 33% | 0.8 | 15 | \$2,843 | 86% | 1.3 |
| FE-WPP | VFD on Condenser Water Pump | Motor w/out VFD Drive | Gov't | Motors | ROB | motor | 18,292 | 33% | 0.8 | 15 | \$2,843 | 86% | 1.3 |
| FE-WPP | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Gov't | Motors | Early | motor | 27,718 | 56% | 2.0 | 15 | \$2,903 | 86% | 3.1 |
| FE-WPP | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Gov't | Motors | New | motor | 27,199 | 57% | 2.0 | 15 | \$2,843 | 86% | 3.2 |
| FE-WPP | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Gov't | Motors | ROB | motor | 27,199 | 57% | 2.0 | 15 | \$2,843 | 86% | 3.2 |
| FE-WPP | VFD on HVAC Fan | Motor w/out VFD | Gov't | Motors | Early | motor | 18,724 | 70% | 1.9 | 15 | \$2,903 | 86% | 2.8 |
| FE-WPP | VFD on HVAC Fan | Motor w/out VFD | Gov't | Motors | New | motor | 18,373 | 72% | 1.9 | 15 | \$2,843 | 86% | 2.8 |
| FE-WPP | VFD on HVAC Fan | Motor w/out VFD | Gov't | Motors | ROB | motor | 18,373 | 71% | 1.9 | 15 | \$2,843 | 86% | 2.8 |
| FE-WPP | Elevators | Std. Eff Elevator | Gov't | Other | ROB | measure | 89,016 | 1.5% | 0.05 | 15 | \$116 | 63% | 5.9 |
| FE-WPP | Variable Speed Drives on Process Equipment | Constant speed control | Gov't | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 10.1 |
| FE-WPP | Variable Speed Drives on Process Equipment | Constant speed control | Gov't | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 10.1 |
| FE-WPP | Auto Off Time Switch | Lighting w/ No Controls | Gov't | Other Int. Lighting | Existing | building | 2,875 | 24% | 0.2 | 8 | \$1,034 | 13% | 0.3 |
| FE-WPP | Auto Off Time Switch | Lighting w/ No Controls | Gov't | Other Int. Lighting | New | building | 2,875 | 7.0% | 0.07 | 8 | \$1,034 | 0% | 0.1 |
| FE-WPP | Central Lighting Control System | Lighting w/ No Controls | Gov't | Other Int. Lighting | Existing | building | 2,875 | 38% | 0.4 | 8 | \$1,034 | 13% | 0.5 |
| FE-WPP | Central Lighting Control System | Lighting w/ No Controls | Gov't | Other Int. Lighting | New | building | 2,875 | 14% | 0.1 | 8 | \$1,034 | 13% | 0.2 |
| FE-WPP | Cold Cathode Screw-In Bulb | 40W Incandescent Bulb | Gov't | Other Int. Lighting | Early | lamp | 87 | 87% | 0.01 | 15 | \$30 | 14% | 1.6 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Gov't | Other Int. Lighting | Early | lamp | 62 | 81% | 0.01 | 15 | \$30 | 11% | 1.1 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Gov't | Other Int. Lighting | New | lamp | 47 | 81% | 0.01 | 15 | \$21 | 14% | 1.2 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Gov't | Other Int. Lighting | New | lamp | 47 | 81% | 0.01 | 15 | \$23 | 14% | 1.1 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Gov't | Other Int. Lighting | New | lamp | 47 | 81% | 0.01 | 15 | \$22 | 11% | 1.1 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Gov't | Other Int. Lighting | ROB | lamp | 62 | 81% | 0.01 | 15 | \$21 | 14% | 1.5 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Gov't | Other Int. Lighting | ROB | lamp | 62 | 81% | 0.01 | 15 | \$23 | 14% | 1.4 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Gov't | Other Int. Lighting | ROB | lamp | 62 | 81% | 0.01 | 15 | \$22 | 11% | 1.5 |
| FE-WPP | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Gov't | Other Int. Lighting | Early | lamp | 87 | 75% | 0.01 | 7 | \$73 | 24% | 0.3 |
| FE-WPP | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Gov't | Other Int. Lighting | New | fixture | 95 | 65% | 0.01 | 13 | \$29 | 28% | 1.2 |
| FE-WPP | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Gov't | Other Int. Lighting | New | lamp | 47 | 65% | 0.01 | 7 | \$29 | 28% | 0.4 |
| FE-WPP | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Gov't | Other Int. Lighting | ROB | fixture | 125 | 65% | 0.01 | 13 | \$29 | 24% | 1.6 |
| FE-WPP | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Gov't | Other Int. Lighting | ROB | lamp | 62 | 65% | 0.01 | 7 | \$29 | 24% | 0.5 |
| FE-WPP | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Gov't | Other Int. Lighting | Early | lamp | 87 | 75% | 0.01 | 7 | \$3.2 | 24% | 7.3 |
| FE-WPP | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Gov't | Other Int. Lighting | New | lamp | 47 | 65% | 0.01 | 7 | \$1.8 | 24% | 6.2 |
| FE-WPP | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Gov't | Other Int. Lighting | ROB | lamp | 62 | 65% | 0.01 | 7 | \$1.8 | 24% | 8.1 |
| FE-WPP | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Gov't | Other Int. Lighting | ROB | lamp | 62 | 65% | 0.01 | 7 | \$1.8 | 24% | 8.1 |
| FE-WPP | Exit Sign Retrofit: CFL replacing Incandescent | One 23W Single Sided Incandescent Exit Sign | Gov't | Other Int. Lighting | Early | exit sign | 139 | 42% | 0.01 | 15 | \$48 | 22% | 0.7 |
| FE-WPP | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Gov't | Other Int. Lighting | New | building | 2,875 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.0 |
| FE-WPP | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Gov't | Other Int. Lighting | New | building | 2,875 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |
| FE-WPP | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Gov't | Other Int. Lighting | New | building | 2,875 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| FE-WPP | Indoor Daylight Sensors | Lighting w/ No Controls | Gov't | Other Int. Lighting | Existing | building | 2,875 | 28% | 0.3 | 8 | \$5,088 | 13% | 0.1 |
| FE-WPP | Indoor Daylight Sensors | Lighting w/ No Controls | Gov't | Other Int. Lighting | New | building | 2,875 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| FE-WPP | LED Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Gov't | Other Int. Lighting | Early | sign | 153 | 87% | 0.02 | 15 | \$48 | 16% | 1.7 |
| FE-WPP | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Gov't | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 1.8 |
| FE-WPP | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Gov't | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 1.8 |
| FE-WPP | LED Task Lighting/Screw-In | 1 15W CFL bulb | Gov't | Other Int. Lighting | Early | lamp | 22 | 33% | 0.00 | 15 | \$9.6 | 24% | 0.5 |
| FE-WPP | LED Task Lighting/Screw-In | 1 60W Incandescent Bulb | Gov't | Other Int. Lighting | Early | lamp | 89 | 83% | 0.01 | 15 | \$9.6 | 24% | 5.0 |
| FE-WPP | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Gov't | Other Int. Lighting | New | lamp | 49 | 77% | 0.01 | 15 | \$7.9 | 24% | 3.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|---|---------|---------------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Gov't | Other Int. Lighting | New | lamp | 49 | 77% | 0.01 | 15 | \$7.9 | 24% | 3.0 |
| FE-WPP | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Gov't | Other Int. Lighting | ROB | lamp | 64 | 77% | 0.01 | 15 | \$7.9 | 24% | 4.0 |
| FE-WPP | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Gov't | Other Int. Lighting | ROB | lamp | 64 | 77% | 0.01 | 15 | \$7.9 | 24% | 4.0 |
| FE-WPP | Occupancy Sensor | Lighting w/ No Controls | Gov't | Other Int. Lighting | Existing | building | 2,875 | 24% | 0.2 | 8 | \$1,558 | 11% | 0.2 |
| FE-WPP | Occupancy Sensor | Lighting w/ No Controls | Gov't | Other Int. Lighting | New | building | 2,875 | 7.0% | 0.07 | 8 | \$1,558 | 0% | 0.1 |
| FE-WPP | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Gov't | Other Int. Lighting | Existing | building | 2,875 | 28% | 0.3 | 8 | \$5,088 | 11% | 0.1 |
| FE-WPP | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Gov't | Other Int. Lighting | New | building | 2,875 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| FE-WPP | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Gov't | Other Int. Lighting | Early | exit sign | 139 | 100% | 0.02 | 15 | \$173 | 26% | 0.5 |
| FE-WPP | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Gov't | Other Int. Lighting | New | exit sign | 80 | 100% | 0.01 | 15 | \$148 | 31% | 0.3 |
| FE-WPP | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Gov't | Other Int. Lighting | ROB | exit sign | 80 | 100% | 0.01 | 15 | \$148 | 26% | 0.3 |
| FE-WPP | Time Clock Control | Lighting w/ No Controls | Gov't | Other Int. Lighting | Existing | building | 2,875 | 28% | 0.3 | 8 | \$1,034 | 13% | 0.4 |
| FE-WPP | Time Clock Control | Lighting w/ No Controls | Gov't | Other Int. Lighting | New | building | 2,875 | 4.1% | 0.04 | 8 | \$1,034 | 0% | 0.1 |
| FE-WPP | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Gov't | Plug Load | Existing | building | 1,348 | 46% | 0.5 | 5 | \$189 | 4% | 1.6 |
| FE-WPP | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Gov't | Plug Load | New | building | 1,348 | 46% | 0.5 | 5 | \$189 | 4% | 1.6 |
| FE-WPP | Data Center - Server/Storage Consolidation | No Consolidation | Gov't | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-WPP | Data Center - Server/Storage Consolidation | No Consolidation | Gov't | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-WPP | Data Center - Server/Storage Virtualization | No Virtualization | Gov't | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-WPP | Data Center - Server/Storage Virtualization | No Virtualization | Gov't | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-WPP | Energy Star - Scanners | Std Scanner | Gov't | Plug Load | New | measure | 68 | 3.8% | 0.04 | 4 | \$130 | 7% | 0.1 |
| FE-WPP | Energy Star - Scanners | Std Scanner | Gov't | Plug Load | ROB | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| FE-WPP | Energy Star Battery Charging System (for small cordless products) | Std. Battery Charging System | Gov't | Plug Load | ROB | measure | 593 | 2.3% | 0.5 | 5 | \$65 | 4% | 2.9 |
| FE-WPP | Energy Star Dishwasher | Existing Dishwasher units | Gov't | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,580 | 1% | 1.0 |
| FE-WPP | Energy Star Dishwasher | Standard Dishwasher unit | Gov't | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 1% | 3.1 |
| FE-WPP | Energy Star Dishwasher | Standard Dishwasher unit | Gov't | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 1% | 3.1 |
| FE-WPP | Energy Star External Power Adapter | Std. Power Adapter | Gov't | Plug Load | New | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| FE-WPP | Energy Star External Power Adapter | Std. Power Adapter | Gov't | Plug Load | ROB | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| FE-WPP | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Gov't | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 17% | 0.2 |
| FE-WPP | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Gov't | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 1.9 |
| FE-WPP | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Gov't | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 1.9 |
| FE-WPP | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Gov't | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 9% | 0.8 |
| FE-WPP | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Gov't | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.6 |
| FE-WPP | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Gov't | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.6 |
| FE-WPP | ENERGY STAR® Copiers | 10% Less Efficient Copier | Gov't | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 18% | 0.0 |
| FE-WPP | ENERGY STAR® Copiers | One Conventional Copier | Gov't | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| FE-WPP | ENERGY STAR® Copiers | One Conventional Copier | Gov't | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| FE-WPP | ENERGY STAR® desktop | Standard computer | Gov't | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 69% | 0.1 |
| FE-WPP | ENERGY STAR® desktop | Standard computer | Gov't | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.3 |
| FE-WPP | ENERGY STAR® desktop | Standard computer | Gov't | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.3 |
| FE-WPP | ENERGY STAR® Fax | 10% Less Efficient Fax | Gov't | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 15% | 0.0 |
| FE-WPP | ENERGY STAR® Fax | One Conventional Fax | Gov't | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| FE-WPP | ENERGY STAR® Fax | One Conventional Fax | Gov't | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| FE-WPP | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Gov't | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 70% | 0.0 |
| FE-WPP | ENERGY STAR® Monitors | One Conventional Monitor | Gov't | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| FE-WPP | ENERGY STAR® Monitors | One Conventional Monitor | Gov't | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| FE-WPP | ENERGY STAR® Printers | 10% Less Efficient Printer | Gov't | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 44% | 0.0 |
| FE-WPP | ENERGY STAR® Printers | One Conventional Printer | Gov't | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| FE-WPP | ENERGY STAR® Printers | One Conventional Printer | Gov't | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| FE-WPP | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Gov't | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 43% | 0.1 |
| FE-WPP | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Gov't | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.7 |
| FE-WPP | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Gov't | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.7 |
| FE-WPP | ENERGY STAR® Televisions | 10% Less Efficient Television | Gov't | Plug Load | Early | Unit | 111 | 38% | 0.01 | 6 | \$672 | 40% | 0.0 |
| FE-WPP | ENERGY STAR® Televisions | One Conventional Television | Gov't | Plug Load | New | Unit | 101 | 32% | 0.01 | 6 | \$206 | 40% | 0.0 |
| FE-WPP | ENERGY STAR® Televisions | One Conventional Television | Gov't | Plug Load | ROB | Unit | 101 | 32% | 0.01 | 6 | \$206 | 40% | 0.0 |
| FE-WPP | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Gov't | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 24% | 0.3 |
| FE-WPP | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Gov't | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.6 |
| FE-WPP | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Gov't | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.6 |
| FE-WPP | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Gov't | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.2 |
| FE-WPP | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Gov't | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.2 |
| FE-WPP | Network PC Power Management | No PC Power Management | Gov't | Plug Load | Existing | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 15.1 |
| FE-WPP | Network PC Power Management | No PC Power Management | Gov't | Plug Load | New | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 15.1 |
| FE-WPP | Smart Strip Plug Outlets | Standard plug strip/outlet | Gov't | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.3 |
| FE-WPP | Smart Strip Plug Outlets | Standard plug strip/outlet | Gov't | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.3 |
| FE-WPP | Smart Strip Plug Outlets | Standard plug strip/outlet | Gov't | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-WPP | Smart Strip Plug Outlets | Standard plug strip/outlet | Gov't | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-WPP | Smart Strip Plug Outlets | Standard plug strip/outlet | Gov't | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-WPP | Smart Strip Plug Outlets | Standard plug strip/outlet | Gov't | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-WPP | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Gov't | Plug Load | Existing | building | 1,348 | 46% | 0.5 | 5 | \$180 | 3% | 1.6 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|---|---------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Gov't | Plug Load | New | building | 1,348 | 46% | 0.5 | 5 | \$180 | 3% | 1.6 |
| FE-WPP | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Gov't | Refrigeration | Existing | building | 708 | 1.1% | 0.01 | 12 | \$70 | 11% | 0.2 |
| FE-WPP | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Gov't | Refrigeration | New | building | 708 | 1.1% | 0.01 | 12 | \$70 | 11% | 0.2 |
| FE-WPP | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Gov't | Refrigeration | Existing | building | 708 | 7.0% | 0.07 | 12 | \$70 | 11% | 1.0 |
| FE-WPP | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Gov't | Refrigeration | New | building | 708 | 7.0% | 0.07 | 12 | \$70 | 11% | 1.0 |
| FE-WPP | Auto Closer on Refrigerator Door | Door w/out Autocloser | Gov't | Refrigeration | Existing | building | 3,640 | 27% | 0.3 | 8 | \$747 | 40% | 0.6 |
| FE-WPP | Auto Closer on Refrigerator Door | Door w/out Autocloser | Gov't | Refrigeration | Existing | building | 5,460 | 15% | 0.2 | 8 | \$763 | 40% | 0.4 |
| FE-WPP | Auto Closer on Refrigerator Door | Door w/out Autocloser | Gov't | Refrigeration | New | building | 3,640 | 27% | 0.3 | 8 | \$747 | 40% | 0.6 |
| FE-WPP | Auto Closer on Refrigerator Door | Door w/out Autocloser | Gov't | Refrigeration | New | building | 5,460 | 15% | 0.2 | 8 | \$763 | 40% | 0.4 |
| FE-WPP | Demand Hot Gas Defrost | Base Refrigeration System | Gov't | Refrigeration | Existing | measure | 708 | 3.0% | 0.03 | 10 | \$1,301 | 0% | 0.0 |
| FE-WPP | Demand Hot Gas Defrost | Base Refrigeration System | Gov't | Refrigeration | New | measure | 708 | 3.0% | 0.03 | 10 | \$1,301 | 0% | 0.0 |
| FE-WPP | Door Gasket- Freezer | Door w/out Gasket | Gov't | Refrigeration | Existing | building | 3,640 | 15% | 0.1 | 4 | \$77 | 29% | 1.7 |
| FE-WPP | Door Gasket- Freezer | Door w/out Gasket | Gov't | Refrigeration | New | building | 3,640 | 15% | 0.1 | 4 | \$77 | 29% | 1.7 |
| FE-WPP | Door Gasket- Refrigerator | Door w/out Gasket | Gov't | Refrigeration | Existing | building | 5,460 | 4.8% | 0.05 | 4 | \$105 | 45% | 0.5 |
| FE-WPP | Door Gasket- Refrigerator | Door w/out Gasket | Gov't | Refrigeration | New | building | 5,460 | 4.8% | 0.05 | 4 | \$105 | 45% | 0.5 |
| FE-WPP | eCube | Refrigeration unit w/out eCube | Gov't | Refrigeration | Existing | building | 5,460 | 15% | 0.2 | 15 | \$504 | 57% | 1.0 |
| FE-WPP | eCube | Refrigeration unit w/out eCube | Gov't | Refrigeration | New | building | 5,460 | 15% | 0.2 | 15 | \$504 | 57% | 1.0 |
| FE-WPP | Efficient compressor motor | Base Refrigeration System - Grocery | Gov't | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| FE-WPP | Efficient compressor motor | Base Refrigeration System - Grocery | Gov't | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| FE-WPP | Efficient compressor motor | Base Refrigeration System - Grocery | Gov't | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| FE-WPP | Efficient compressor motor | Base Refrigeration System - Grocery | Gov't | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| FE-WPP | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Gov't | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.5 |
| FE-WPP | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Gov't | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| FE-WPP | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Gov't | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| FE-WPP | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Gov't | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.3 |
| FE-WPP | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Gov't | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.7 |
| FE-WPP | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Gov't | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.7 |
| FE-WPP | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Gov't | Refrigeration | Existing | building | 5,460 | 1.7% | 0.02 | 10 | \$369 | 77% | 0.1 |
| FE-WPP | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Gov't | Refrigeration | New | building | 5,460 | 1.7% | 0.02 | 10 | \$369 | 77% | 0.1 |
| FE-WPP | Floating head pressure controller | System w/out FHPC | Gov't | Refrigeration | Existing | building | 3,640 | 6.4% | 0.03 | 15 | \$8,682 | 41% | 0.0 |
| FE-WPP | Floating head pressure controller | System w/out FHPC | Gov't | Refrigeration | Existing | building | 708 | 13% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-WPP | Floating head pressure controller | System w/out FHPC | Gov't | Refrigeration | Existing | building | 5,460 | 1.5% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-WPP | Floating head pressure controller | System w/out FHPC | Gov't | Refrigeration | New | building | 3,640 | 6.4% | 0.03 | 15 | \$8,682 | 41% | 0.0 |
| FE-WPP | Floating head pressure controller | System w/out FHPC | Gov't | Refrigeration | New | building | 708 | 13% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-WPP | Floating head pressure controller | System w/out FHPC | Gov't | Refrigeration | New | building | 5,460 | 1.5% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-WPP | High Efficiency Commercial Freezer | Std. Commercial Freezer | Gov't | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 86% | 0.3 |
| FE-WPP | High Efficiency Commercial Freezer | Std. Commercial Freezer | Gov't | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 3.6 |
| FE-WPP | High Efficiency Commercial Freezer | Std. Commercial Freezer | Gov't | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 3.6 |
| FE-WPP | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Gov't | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 2% | 0.1 |
| FE-WPP | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Gov't | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.8 |
| FE-WPP | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Gov't | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.8 |
| FE-WPP | High Efficiency Ice Maker | Exisiting Standard Efficiency Ice Maker in Pennsylvania | Gov't | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 73% | 0.1 |
| FE-WPP | High Efficiency Ice Maker | Standard code minimum Ice Maker | Gov't | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| FE-WPP | High Efficiency Ice Maker | Standard code minimum Ice Maker | Gov't | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| FE-WPP | High Efficiency Ice Making Head | Standard Ice Making Head | Gov't | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.5 |
| FE-WPP | High Efficiency Ice Making Head | Standard Ice Making Head | Gov't | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.6 |
| FE-WPP | High R-Value Glass Doors | Base Refrigeration System - Grocery | Gov't | Refrigeration | Existing | building | 708 | 0.7% | 0.01 | 10 | \$15 | 0% | 0.4 |
| FE-WPP | High R-Value Glass Doors | Base Refrigeration System - Grocery | Gov't | Refrigeration | New | building | 708 | 0.7% | 0.01 | 10 | \$15 | 0% | 0.4 |
| FE-WPP | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Gov't | Refrigeration | Early | Fixture | 373 | 56% | 0.01 | 8 | \$448 | 47% | 0.1 |
| FE-WPP | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Gov't | Refrigeration | New | Fixture | 291 | 44% | 0.00 | 8 | \$139 | 47% | 0.3 |
| FE-WPP | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Gov't | Refrigeration | ROB | Fixture | 291 | 44% | 0.00 | 8 | \$139 | 47% | 0.3 |
| FE-WPP | No-heat glass doors | Standard low-temp reach-in | Gov't | Refrigeration | Existing | building | 708 | 20% | 0.2 | 10 | \$1,336 | 8% | 0.1 |
| FE-WPP | No-heat glass doors | Standard low-temp reach-in | Gov't | Refrigeration | New | building | 708 | 20% | 0.2 | 10 | \$1,336 | 8% | 0.1 |
| FE-WPP | Quick acting freezer doors | Std. Freezer Doors | Gov't | Refrigeration | Existing | building | 3,640 | 13% | 0.1 | 10 | \$809 | 56% | 0.3 |
| FE-WPP | Quick acting freezer doors | Std. Freezer Doors | Gov't | Refrigeration | New | building | 3,640 | 13% | 0.1 | 10 | \$809 | 56% | 0.3 |
| FE-WPP | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Gov't | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 30% | 0.4 |
| FE-WPP | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Gov't | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.5 |
| FE-WPP | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Gov't | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.5 |
| FE-WPP | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 30% | 1.5 |
| FE-WPP | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 2.6 |
| FE-WPP | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 2.6 |
| FE-WPP | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 30% | 1.5 |
| FE-WPP | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 3.5 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|--|---------|-----------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 3.5 |
| FE-WPP | Refrigeration Commissioning | Non-commissioned refrigeration system | Gov't | Refrigeration | Existing | building | 10,110 | 9.5% | 0.10 | 3 | \$3,613 | 85% | 0.0 |
| FE-WPP | Refrigeration Commissioning | Non-commissioned refrigeration system | Gov't | Refrigeration | New | building | 10,110 | 9.5% | 0.10 | 3 | \$3,613 | 85% | 0.0 |
| FE-WPP | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Gov't | Refrigeration | Existing | building | 3,640 | 35% | 0.3 | 4 | \$93 | 22% | 3.3 |
| FE-WPP | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Gov't | Refrigeration | Existing | building | 5,460 | 6.8% | 0.07 | 4 | \$128 | 22% | 0.6 |
| FE-WPP | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Gov't | Refrigeration | New | building | 3,640 | 35% | 0.3 | 4 | \$93 | 22% | 3.3 |
| FE-WPP | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Gov't | Refrigeration | New | building | 5,460 | 6.8% | 0.07 | 4 | \$128 | 22% | 0.6 |
| FE-WPP | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Gov't | Refrigeration | Existing | building | 3,640 | 5.9% | 0.06 | 11 | \$119 | 79% | 1.0 |
| FE-WPP | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Gov't | Refrigeration | New | building | 3,640 | 5.9% | 0.06 | 11 | \$119 | 79% | 1.0 |
| FE-WPP | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Gov't | Refrigeration | Existing | building | 5,460 | 4.5% | 0.05 | 11 | \$119 | 79% | 1.0 |
| FE-WPP | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Gov't | Refrigeration | New | building | 5,460 | 4.5% | 0.05 | 11 | \$119 | 79% | 1.0 |
| FE-WPP | Vertical Night Covers | Display cases w/out night covers-High Temperature | Gov't | Refrigeration | Existing | building | 708 | 0.6% | 0.01 | 5 | \$52 | 9% | 0.1 |
| FE-WPP | Vertical Night Covers | Display cases w/out night covers-High Temperature | Gov't | Refrigeration | New | building | 708 | 0.6% | 0.01 | 5 | \$52 | 9% | 0.1 |
| FE-WPP | VSD Controlled Compressor | Compressor w/out VSD | Gov't | Refrigeration | Early | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |
| FE-WPP | VSD Controlled Compressor | Compressor w/out VSD | Gov't | Refrigeration | New | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |
| FE-WPP | VSD Controlled Compressor | Compressor w/out VSD | Gov't | Refrigeration | ROB | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |
| FE-WPP | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Gov't | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$269 | 35% | 0.8 |
| FE-WPP | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Gov't | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$269 | 35% | 0.8 |
| FE-WPP | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Gov't | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 2.8 |
| FE-WPP | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Gov't | Refrigeration | New | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 2.7 |
| FE-WPP | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Gov't | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 2.8 |
| FE-WPP | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Gov't | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 2.7 |
| FE-WPP | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 35% | 2.1 |
| FE-WPP | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 35% | 2.0 |
| FE-WPP | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 4.6 |
| FE-WPP | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.3 |
| FE-WPP | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 4.6 |
| FE-WPP | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.3 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Gov't | Space Heating | Existing | building | 9,822 | 7.1% | 0.07 | 6 | \$12,489 | 82% | 0.0 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Gov't | Space Heating | New | building | 9,822 | 7.1% | 0.07 | 6 | \$12,489 | 82% | 0.0 |
| FE-WPP | Adding window shade film | No shade film | Gov't | Space Heating | Existing | building | 9,822 | 1.3% | 0.4 | 10 | \$120 | 13% | 2.4 |
| FE-WPP | Adding window shade film | No shade film | Gov't | Space Heating | New | building | 9,822 | 1.3% | 0.4 | 10 | \$120 | 13% | 2.4 |
| FE-WPP | Adding window shade screen | No shade screen | Gov't | Space Heating | Existing | building | 9,822 | 1.1% | 0.01 | 10 | \$46 | 13% | 0.9 |
| FE-WPP | Adding window shade screen | No shade screen | Gov't | Space Heating | New | building | 9,822 | 1.1% | 0.01 | 10 | \$46 | 13% | 0.9 |
| FE-WPP | Automated control system | Manual Controls | Gov't | Space Heating | Existing | building | 9,822 | 17% | 0.2 | 15 | \$10,753 | 51% | 0.1 |
| FE-WPP | Automated control system | Manual Controls | Gov't | Space Heating | New | building | 9,822 | 17% | 0.2 | 15 | \$10,753 | 94% | 0.1 |
| FE-WPP | Ceiling Insulations (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Gov't | Space Heating | Existing | building | 9,822 | 3.4% | 0.03 | 15 | \$17,130 | 71% | 0.0 |
| FE-WPP | Ceiling Insulations (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Gov't | Space Heating | New | building | 9,822 | 1.1% | 0.01 | 15 | \$16,283 | 94% | 0.0 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Gov't | Space Heating | Existing | building | 9,822 | 1.4% | 0.04 | 15 | \$78 | 20% | 1.2 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Gov't | Space Heating | New | building | 9,822 | 1.4% | 0.04 | 15 | \$78 | 10% | 1.2 |
| FE-WPP | Efficient Unit Heating System | Existing Unit Heaters in PA | Gov't | Space Heating | Early | heater | 36,260 | 23% | 0.06 | 15 | \$3,289 | 83% | 1.2 |
| FE-WPP | Efficient Unit Heating System | Std. Unit Heater | Gov't | Space Heating | New | heater | 32,181 | 13% | 0.03 | 15 | \$1,991 | 83% | 1.0 |
| FE-WPP | Efficient Unit Heating System | Std. Unit Heater | Gov't | Space Heating | ROB | heater | 32,181 | 13% | 0.03 | 15 | \$1,991 | 83% | 1.0 |
| FE-WPP | Facility Commissioning | No Facility Commissioning | Gov't | Space Heating | New | building | 9,822 | 16% | 0.2 | 10 | \$140,280 | 89% | 0.0 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Gov't | Space Heating | Existing | building | 9,822 | 7.1% | 0.07 | 15 | \$43,568 | 25% | 0.0 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Gov't | Space Heating | New | building | 9,822 | 7.1% | 0.07 | 15 | \$43,568 | 35% | 0.0 |
| FE-WPP | Hi Eff HVAC System Design | No HVAC Design | Gov't | Space Heating | New | building | 9,822 | 7.4% | 0.07 | 10 | \$1,032,796 | 51% | 0.0 |
| FE-WPP | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Gov't | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 0.9 |
| FE-WPP | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Gov't | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 0.9 |
| FE-WPP | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Gov't | Space Heating | Existing | building | 9,822 | 1.1% | 0.01 | 10 | \$7,735 | 81% | 0.0 |
| FE-WPP | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Gov't | Space Heating | New | building | 9,822 | 1.1% | 0.01 | 10 | \$7,735 | 81% | 0.0 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Gov't | Space Heating | Existing | building | 9,822 | 3.6% | 0.04 | 11 | \$286 | 49% | 0.5 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Gov't | Space Heating | New | building | 9,822 | 3.1% | 0.03 | 11 | \$146 | 49% | 0.9 |
| FE-WPP | Re-Commissioning (Existing Construction) | No Re-Commissioning | Gov't | Space Heating | Existing | building | 9,822 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |
| FE-WPP | VFD on Cooling Tower Fan | Motor w/out VFD | Gov't | Space Heating | Early | motor | 18,724 | 70% | 0.10 | 15 | \$2,843 | 88% | 2.2 |
| FE-WPP | VFD on Cooling Tower Fan | Motor w/out VFD | Gov't | Space Heating | New | motor | 18,373 | 72% | 0.10 | 15 | \$2,843 | 88% | 2.2 |
| FE-WPP | VFD on Cooling Tower Fan | Motor w/out VFD | Gov't | Space Heating | ROB | motor | 18,373 | 72% | 0.10 | 15 | \$2,843 | 88% | 2.2 |
| FE-WPP | Wall Insulations (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Gov't | Space Heating | Existing | building | 9,822 | 6.0% | 0.06 | 15 | \$3,285 | 26% | 0.1 |
| FE-WPP | Wall Insulations (Going upto R 21) | Code minimum Wall Insulations | Gov't | Space Heating | New | building | 9,822 | 0.2% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| FE-WPP | Green LED Traffic Light | Green Incandescent Traffic Light | Gov't | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 0% | 1.1 |
| FE-WPP | Green LED Traffic Light | Green Incandescent Traffic Light | Gov't | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| FE-WPP | Green LED Traffic Light | Green Incandescent Traffic Light | Gov't | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| FE-WPP | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Gov't | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 0% | 2.8 |
| FE-WPP | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Gov't | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|--|---|---------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Gov't | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-WPP | Induction Street Lighting | One 100W HPS Street Light Fixture | Gov't | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 0% | 0.3 |
| FE-WPP | Induction Street Lighting | One 100W HPS Street Light Fixture | Gov't | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.6 |
| FE-WPP | Induction Street Lighting | One 100W HPS Street Light Fixture | Gov't | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.6 |
| FE-WPP | LED Street Lighting | One 100W HPS Street Light | Gov't | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 0% | 0.2 |
| FE-WPP | LED Street Lighting | One 100W HPS Street Light | Gov't | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-WPP | LED Street Lighting | One 100W HPS Street Light | Gov't | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-WPP | Red LED Traffic Light | One Red Incandescent Traffic Light | Gov't | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 0% | 1.5 |
| FE-WPP | Red LED Traffic Light | One Red Incandescent Traffic Light | Gov't | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| FE-WPP | Red LED Traffic Light | One Red Incandescent Traffic Light | Gov't | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| FE-WPP | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Gov't | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 0% | 0.1 |
| FE-WPP | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Gov't | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-WPP | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Gov't | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-WPP | Demand controlled Circulating Systems | Constant circulation system | Gov't | Water Heating | Existing | building | 8,467 | 20% | 0.2 | 15 | \$1,536 | 59% | 0.7 |
| FE-WPP | Demand controlled Circulating Systems | Constant circulation system | Gov't | Water Heating | New | building | 8,467 | 20% | 0.2 | 15 | \$1,536 | 59% | 0.7 |
| FE-WPP | Drainwater Heat Recovery Water Heater | No heat recovery | Gov't | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.7 |
| FE-WPP | Drainwater Heat Recovery Water Heater | No heat recovery | Gov't | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.7 |
| FE-WPP | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Gov't | Water Heating | Existing | building | 8,467 | 5.9% | 0.06 | 12 | \$42 | 85% | 5.8 |
| FE-WPP | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Gov't | Water Heating | New | building | 8,467 | 5.9% | 0.06 | 12 | \$12 | 85% | 20.4 |
| FE-WPP | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Gov't | Water Heating | Early | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 2.8 |
| FE-WPP | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Gov't | Water Heating | Early | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 2.8 |
| FE-WPP | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Gov't | Water Heating | New | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 2.8 |
| FE-WPP | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Gov't | Water Heating | New | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 2.8 |
| FE-WPP | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Gov't | Water Heating | ROB | water heater | 10,350 | 65% | 1.2 | 10 | \$1,187 | 68% | 2.6 |
| FE-WPP | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Gov't | Water Heating | ROB | water heater | 10,350 | 65% | 1.2 | 10 | \$1,187 | 68% | 2.6 |
| FE-WPP | Heat Recovery Unit | Base Water Heating | Gov't | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.5 |
| FE-WPP | Heat Recovery Unit | Base Water Heating | Gov't | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.5 |
| FE-WPP | Heat Trap | No Heat Trap | Gov't | Water Heating | Existing | building | 8,467 | 22% | 0.2 | 11 | \$58 | 50% | 14.9 |
| FE-WPP | Heat Trap | No Heat Trap | Gov't | Water Heating | New | building | 8,467 | 22% | 0.2 | 11 | \$8.6 | 50% | 100.4 |
| FE-WPP | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Gov't | Water Heating | Early | water heater | 10,645 | 5.9% | 0.1 | 15 | \$307 | 79% | 1.3 |
| FE-WPP | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Gov't | Water Heating | Early | water heater | 10,645 | 5.9% | 0.1 | 15 | \$307 | 79% | 1.3 |
| FE-WPP | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Gov't | Water Heating | New | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.7 |
| FE-WPP | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Gov't | Water Heating | New | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.7 |
| FE-WPP | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Gov't | Water Heating | ROB | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.7 |
| FE-WPP | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Gov't | Water Heating | ROB | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.7 |
| FE-WPP | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Gov't | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$466 | 81% | 36.2 |
| FE-WPP | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Gov't | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 18.9 |
| FE-WPP | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Gov't | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 18.8 |
| FE-WPP | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Gov't | Water Heating | Existing | building | 8,467 | 0.4% | 0.00 | 13 | \$4.9 | 68% | 3.8 |
| FE-WPP | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Gov't | Water Heating | New | building | 8,467 | 0.4% | 0.00 | 13 | \$4.9 | 0% | 3.8 |
| FE-WPP | Hot Water Circulation Pump Time-Clock | Constant circulation system | Gov't | Water Heating | Existing | building | 8,467 | 5.3% | 0.05 | 10 | \$34 | 72% | 5.6 |
| FE-WPP | Hot Water Circulation Pump Time-Clock | Constant circulation system | Gov't | Water Heating | New | building | 8,467 | 5.3% | 0.05 | 10 | \$34 | 72% | 5.6 |
| FE-WPP | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Gov't | Water Heating | Existing | building | 8,467 | 0.9% | 0.01 | 7 | \$22 | 78% | 1.2 |
| FE-WPP | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Gov't | Water Heating | New | building | 8,467 | 0.8% | 0.01 | 7 | \$0.5 | 78% | 44.2 |
| FE-WPP | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Gov't | Water Heating | Existing | building | 8,467 | 2.3% | 0.02 | 5 | \$300 | 20% | 0.2 |
| FE-WPP | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Gov't | Water Heating | New | building | 8,467 | 1.5% | 0.02 | 5 | \$194 | 20% | 0.2 |
| FE-WPP | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Gov't | Water Heating | Existing | building | 8,467 | 6.5% | 0.07 | 9 | \$25 | 2% | 8.7 |
| FE-WPP | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Gov't | Water Heating | New | building | 8,467 | 6.5% | 0.07 | 9 | \$6.0 | 2% | 36.4 |
| FE-WPP | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Gov't | Water Heating | Early | water heater | 10,645 | 52% | 0.4 | 15 | \$6,222 | 32% | 0.5 |
| FE-WPP | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Gov't | Water Heating | New | water heater | 10,350 | 51% | 0.4 | 15 | \$6,222 | 32% | 0.5 |
| FE-WPP | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Gov't | Water Heating | ROB | water heater | 10,350 | 51% | 0.4 | 15 | \$6,222 | 32% | 0.5 |
| FE-WPP | Ultrasonic Faucet Control | Manual Faucet Control | Gov't | Water Heating | Existing | building | 8,467 | 3.0% | 0.03 | 10 | \$1,464 | 77% | 0.1 |
| FE-WPP | Ultrasonic Faucet Control | Manual Faucet Control | Gov't | Water Heating | New | building | 8,467 | 3.1% | 0.03 | 10 | \$1,464 | 77% | 0.1 |
| FE-WPP | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Gov't | Water Heating | Existing | building | 8,467 | 2.2% | 0.02 | 4 | \$28 | 83% | 1.4 |
| FE-WPP | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Gov't | Water Heating | New | building | 8,467 | 2.3% | 0.02 | 4 | \$28 | 83% | 1.5 |
| FE-WPP | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Grocery | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.0 |
| FE-WPP | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Grocery | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.0 |
| FE-WPP | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Grocery | Cooking | Early | steamer | 51 | 46% | 0.00 | 12 | \$5,053 | 81% | 0.0 |
| FE-WPP | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Grocery | Cooking | New | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-WPP | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Grocery | Cooking | ROB | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-WPP | Electric combination oven (Energy Star) | Standard Oven | Grocery | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.8 |
| FE-WPP | Electric combination oven (Energy Star) | Standard Oven | Grocery | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.8 |
| FE-WPP | Electric Convection Oven | Conventional convection oven w/ 65% efficiency | Grocery | Cooking | Early | oven | 8,641 | 37% | 0.6 | 12 | \$4,119 | 81% | 0.4 |
| FE-WPP | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Grocery | Cooking | New | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.7 |
| FE-WPP | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Grocery | Cooking | ROB | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.7 |
| FE-WPP | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Grocery | Cooking | Early | fryer | 6,105 | 23% | 0.3 | 12 | \$9,241 | 86% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|--|--|---------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Grocery | Cooking | New | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| FE-WPP | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Grocery | Cooking | ROB | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| FE-WPP | High Efficiency Griddle (ENERGY STAR) | Efficiency code minimum griddle (70% eff) | Grocery | Cooking | Early | griddle | 11,317 | 65% | 1.4 | 12 | \$4,977 | 86% | 0.8 |
| FE-WPP | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Grocery | Cooking | New | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.1 |
| FE-WPP | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Grocery | Cooking | ROB | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.1 |
| FE-WPP | High Efficiency Induction Cooking | Standard Cooking | Grocery | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-WPP | High Efficiency Induction Cooking | Standard Cooking | Grocery | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-WPP | Solid-state temperature controls | No Solid State Controls | Grocery | Cooking | Existing | building | 4,585 | 3.6% | 0.04 | 12 | \$21 | 34% | 4.4 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Grocery | Cooling Central | Existing | building | 3,121 | 7.0% | 0.07 | 6 | \$24,149 | 82% | 0.0 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Grocery | Cooling Central | New | building | 3,121 | 7.0% | 0.07 | 6 | \$24,149 | 82% | 0.0 |
| FE-WPP | Adding window shade film | No shade film | Grocery | Cooling Central | Existing | building | 3,121 | 1.3% | 0.4 | 10 | \$38 | 12% | 6.8 |
| FE-WPP | Adding window shade film | No shade film | Grocery | Cooling Central | New | building | 3,121 | 1.3% | 0.4 | 10 | \$38 | 13% | 6.8 |
| FE-WPP | Adding window shade screen | No shade screen | Grocery | Cooling Central | Existing | building | 3,121 | 1.1% | 0.01 | 10 | \$15 | 13% | 1.2 |
| FE-WPP | Adding window shade screen | No shade screen | Grocery | Cooling Central | New | building | 3,121 | 1.1% | 0.01 | 10 | \$15 | 13% | 1.2 |
| FE-WPP | Automated control system | Manual Controls | Grocery | Cooling Central | Existing | building | 3,121 | 17% | 0.2 | 15 | \$3,416 | 51% | 0.1 |
| FE-WPP | Automated control system | Manual Controls | Grocery | Cooling Central | New | building | 3,121 | 17% | 0.2 | 15 | \$3,416 | 94% | 0.1 |
| FE-WPP | Ceiling Insulations (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Grocery | Cooling Central | Existing | building | 3,121 | 9.8% | 0.10 | 15 | \$33,930 | 71% | 0.0 |
| FE-WPP | Ceiling Insulations (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Grocery | Cooling Central | New | building | 3,121 | 3.3% | 0.03 | 15 | \$32,251 | 94% | 0.0 |
| FE-WPP | Chiller Tuneup/Diagnostics | No tuneup | Grocery | Cooling Central | Existing | building | 3,121 | 8.0% | 0.08 | 10 | \$7,968 | 59% | 0.0 |
| FE-WPP | Chiller Tuneup/Diagnostics | No tuneup | Grocery | Cooling Central | New | building | 3,121 | 8.0% | 0.08 | 10 | \$7,968 | 59% | 0.0 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Grocery | Cooling Central | Existing | building | 3,121 | 1.4% | 0.04 | 15 | \$25 | 20% | 2.2 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Grocery | Cooling Central | New | building | 3,121 | 1.4% | 0.04 | 15 | \$25 | 10% | 2.2 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Grocery | Cooling Central | Existing | building | 3,121 | 7.0% | 0.07 | 15 | \$13,842 | 25% | 0.0 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Grocery | Cooling Central | New | building | 3,121 | 7.0% | 0.07 | 15 | \$13,842 | 35% | 0.0 |
| FE-WPP | Hi Eff HVAC System Design | No HVAC Design | Grocery | Cooling Central | New | building | 3,121 | 9.3% | 0.09 | 10 | \$905,299 | 51% | 0.0 |
| FE-WPP | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Grocery | Cooling Central | Early | ton | 5,094 | 24% | 0.4 | 15 | \$108,550 | 88% | 0.0 |
| FE-WPP | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Grocery | Cooling Central | New | ton | 4,164 | 6.7% | 0.10 | 15 | \$12,927 | 88% | 0.0 |
| FE-WPP | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Grocery | Cooling Central | ROB | ton | 4,164 | 6.7% | 0.10 | 15 | \$12,927 | 88% | 0.0 |
| FE-WPP | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Grocery | Cooling Central | Early | ton | 7,611 | 23% | 0.6 | 15 | \$140,105 | 88% | 0.0 |
| FE-WPP | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Grocery | Cooling Central | New | ton | 6,124 | 4.8% | 0.1 | 15 | \$9,336 | 88% | 0.0 |
| FE-WPP | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Grocery | Cooling Central | ROB | ton | 6,124 | 4.8% | 0.1 | 15 | \$9,336 | 88% | 0.0 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Grocery | Cooling Central | Early | ton | 62,308 | 26% | 5.6 | 15 | \$105,354 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Grocery | Cooling Central | New | ton | 54,288 | 15% | 2.8 | 15 | \$30,530 | 88% | 0.2 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Grocery | Cooling Central | ROB | ton | 54,288 | 15% | 2.8 | 15 | \$30,530 | 88% | 0.2 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Grocery | Cooling Central | Early | ton | 93,320 | 23% | 7.4 | 15 | \$154,107 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Grocery | Cooling Central | New | ton | 85,726 | 16% | 4.8 | 15 | \$27,646 | 88% | 0.4 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Grocery | Cooling Central | ROB | ton | 93,320 | 23% | 7.4 | 15 | \$27,646 | 88% | 0.6 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Grocery | Cooling Central | Early | ton | 154,988 | 23% | 12.2 | 15 | \$302,924 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Grocery | Cooling Central | New | ton | 140,275 | 14% | 7.0 | 15 | \$115,432 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Grocery | Cooling Central | ROB | ton | 154,988 | 23% | 12.2 | 15 | \$115,432 | 88% | 0.2 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Grocery | Cooling Central | Early | ton | 185,985 | 23% | 14.6 | 15 | \$350,154 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Grocery | Cooling Central | New | ton | 168,330 | 14% | 8.5 | 15 | \$120,406 | 88% | 0.2 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Grocery | Cooling Central | ROB | ton | 185,985 | 23% | 14.6 | 15 | \$120,406 | 88% | 0.3 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Grocery | Cooling Central | Early | ton | 41,225 | 29% | 4.2 | 15 | \$83,632 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Grocery | Cooling Central | New | ton | 32,011 | 8.9% | 1.0 | 15 | \$40,211 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Grocery | Cooling Central | ROB | ton | 41,225 | 29% | 4.2 | 15 | \$40,211 | 88% | 0.2 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Grocery | Cooling Central | Early | ton | 70,835 | 35% | 8.6 | 15 | \$132,173 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Grocery | Cooling Central | New | ton | 52,831 | 13% | 2.3 | 15 | \$39,556 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Grocery | Cooling Central | ROB | ton | 52,831 | 13% | 2.3 | 15 | \$39,556 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Grocery | Cooling Central | Early | ton | 118,265 | 39% | 16.1 | 15 | \$187,029 | 88% | 0.2 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Grocery | Cooling Central | New | ton | 84,321 | 15% | 4.3 | 15 | \$33,554 | 88% | 0.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|--|---|---------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Grocery | Cooling Central | ROB | ton | 118,265 | 39% | 16.1 | 15 | \$33,554 | 88% | 1.1 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Grocery | Cooling Central | Early | ton | 20,695 | 30% | 2.1 | 15 | \$32,398 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Grocery | Cooling Central | New | ton | 16,396 | 11% | 0.6 | 15 | \$7,188 | 88% | 0.2 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Grocery | Cooling Central | ROB | ton | 20,695 | 30% | 2.1 | 15 | \$7,188 | 88% | 0.7 |
| FE-WPP | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Grocery | Cooling Central | Existing | building | 3,121 | 1.1% | 0.01 | 10 | \$94,032 | 81% | 0.0 |
| FE-WPP | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Grocery | Cooling Central | New | building | 3,121 | 1.1% | 0.01 | 10 | \$94,032 | 81% | 0.0 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Grocery | Cooling Central | Existing | building | 3,121 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.1 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Grocery | Cooling Central | New | building | 3,121 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.2 |
| FE-WPP | Re-Commissioning (Existing Construction) | No Re-Commissioning | Grocery | Cooling Central | Existing | building | 3,121 | 16% | 0.2 | 5 | \$19,254 | 86% | 0.0 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Grocery | Cooling Central | Existing | building | 3,121 | 19% | 0.2 | 15 | \$7,224 | 26% | 0.1 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Grocery | Cooling Central | New | building | 3,121 | 0.5% | 0.01 | 15 | \$5,541 | 94% | 0.0 |
| FE-WPP | <65k BTU/hr 14 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Grocery | Cooling Unitary | Early | ton | 1,951 | 16% | 0.1 | 15 | \$1,545 | 29% | 0.2 |
| FE-WPP | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Grocery | Cooling Unitary | New | ton | 1,767 | 7.1% | 0.05 | 15 | \$339 | 29% | 0.3 |
| FE-WPP | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Grocery | Cooling Unitary | ROB | ton | 1,767 | 7.1% | 0.05 | 15 | \$339 | 29% | 0.3 |
| FE-WPP | <65k BTU/hr 15 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Grocery | Cooling Unitary | Early | ton | 1,951 | 22% | 0.2 | 15 | \$1,821 | 30% | 0.2 |
| FE-WPP | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Grocery | Cooling Unitary | New | ton | 1,767 | 13% | 0.10 | 15 | \$714 | 30% | 0.3 |
| FE-WPP | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Grocery | Cooling Unitary | ROB | ton | 1,767 | 13% | 0.10 | 15 | \$714 | 30% | 0.3 |
| FE-WPP | <65k BTU/hr 16 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Grocery | Cooling Unitary | Early | ton | 1,951 | 26% | 0.2 | 15 | \$2,098 | 31% | 0.2 |
| FE-WPP | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Grocery | Cooling Unitary | New | ton | 1,767 | 19% | 0.1 | 15 | \$1,089 | 31% | 0.3 |
| FE-WPP | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Grocery | Cooling Unitary | ROB | ton | 1,767 | 19% | 0.1 | 15 | \$1,089 | 31% | 0.3 |
| FE-WPP | >760k min 10.2 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Grocery | Cooling Unitary | Early | ton | 49,355 | 3.7% | 0.8 | 15 | \$68,066 | 56% | 0.0 |
| FE-WPP | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Grocery | Cooling Unitary | New | ton | 49,988 | 4.9% | 1.0 | 15 | \$6,231 | 56% | 0.3 |
| FE-WPP | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Grocery | Cooling Unitary | ROB | ton | 49,988 | 4.9% | 1.0 | 15 | \$6,231 | 56% | 0.3 |
| FE-WPP | 135-240k min 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Grocery | Cooling Unitary | Early | ton | 12,144 | 18% | 0.9 | 15 | \$18,135 | 79% | 0.1 |
| FE-WPP | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Grocery | Cooling Unitary | New | ton | 11,047 | 10.0% | 0.5 | 15 | \$1,948 | 79% | 0.5 |
| FE-WPP | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Grocery | Cooling Unitary | ROB | ton | 11,047 | 10.0% | 0.5 | 15 | \$1,948 | 79% | 0.5 |
| FE-WPP | 240k-760k min 11 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Grocery | Cooling Unitary | Early | ton | 32,470 | 9.0% | 1.2 | 15 | \$44,809 | 66% | 0.1 |
| FE-WPP | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Grocery | Cooling Unitary | New | ton | 32,551 | 9.3% | 1.3 | 15 | \$4,813 | 66% | 0.5 |
| FE-WPP | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Grocery | Cooling Unitary | ROB | ton | 32,551 | 9.3% | 1.3 | 15 | \$4,813 | 66% | 0.5 |
| FE-WPP | 65k-135k BTU/hr 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Grocery | Cooling Unitary | Early | ton | 7,159 | 17% | 0.5 | 15 | \$10,946 | 86% | 0.1 |
| FE-WPP | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Grocery | Cooling Unitary | New | ton | 6,380 | 6.7% | 0.2 | 15 | \$1,392 | 86% | 0.3 |
| FE-WPP | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Grocery | Cooling Unitary | ROB | ton | 6,380 | 6.7% | 0.2 | 15 | \$1,392 | 86% | 0.3 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Grocery | Cooling Unitary | Existing | building | 28,953 | 7.0% | 0.07 | 6 | \$24,149 | 82% | 0.0 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Grocery | Cooling Unitary | New | building | 28,953 | 7.0% | 0.07 | 6 | \$24,149 | 82% | 0.0 |
| FE-WPP | Adding window shade film | No shade film | Grocery | Cooling Unitary | Existing | building | 28,953 | 1.3% | 0.4 | 10 | \$352 | 12% | 1.1 |
| FE-WPP | Adding window shade film | No shade film | Grocery | Cooling Unitary | New | building | 28,953 | 1.3% | 0.4 | 10 | \$352 | 13% | 1.1 |
| FE-WPP | Adding window shade screen | No shade screen | Grocery | Cooling Unitary | Existing | building | 28,953 | 1.1% | 0.01 | 10 | \$136 | 12% | 0.9 |
| FE-WPP | Adding window shade screen | No shade screen | Grocery | Cooling Unitary | New | building | 28,953 | 1.1% | 0.01 | 10 | \$136 | 13% | 0.9 |
| FE-WPP | Automated control system | Manual Controls | Grocery | Cooling Unitary | Existing | building | 28,953 | 17% | 0.2 | 15 | \$31,696 | 51% | 0.1 |
| FE-WPP | Automated control system | Manual Controls | Grocery | Cooling Unitary | New | building | 28,953 | 17% | 0.2 | 15 | \$31,696 | 94% | 0.1 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Grocery | Cooling Unitary | Existing | building | 28,953 | 9.8% | 0.10 | 15 | \$33,930 | 71% | 0.0 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Grocery | Cooling Unitary | New | building | 28,953 | 3.3% | 0.03 | 15 | \$32,251 | 94% | 0.0 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Grocery | Cooling Unitary | Existing | building | 28,953 | 1.4% | 0.04 | 15 | \$230 | 20% | 1.0 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Grocery | Cooling Unitary | New | building | 28,953 | 1.4% | 0.04 | 15 | \$230 | 10% | 1.0 |
| FE-WPP | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Grocery | Cooling Unitary | Existing | building | 15,924 | 13% | 0.1 | 1 | \$153 | 73% | 0.7 |
| FE-WPP | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Grocery | Cooling Unitary | New | building | 15,924 | 13% | 0.1 | 1 | \$153 | 73% | 0.7 |
| FE-WPP | ECM Motors for split systems | Std Shaded Pole Motor | Grocery | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.7 |
| FE-WPP | ECM Motors for split systems | Std Shaded Pole Motor | Grocery | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.7 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Grocery | Cooling Unitary | Existing | building | 28,953 | 7.1% | 0.07 | 15 | \$128,428 | 25% | 0.0 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Grocery | Cooling Unitary | New | building | 28,953 | 7.1% | 0.07 | 15 | \$128,428 | 35% | 0.0 |
| FE-WPP | Hi Eff HVAC System Design | No HVAC Design | Grocery | Cooling Unitary | New | building | 28,953 | 9.3% | 0.09 | 10 | \$10,942 | 51% | 0.1 |
| FE-WPP | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Grocery | Cooling Unitary | Existing | building | 28,953 | 5.0% | 0.05 | 5 | \$225 | 59% | 1.4 |
| FE-WPP | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Grocery | Cooling Unitary | Existing | building | 28,953 | 0.5% | 0.05 | 5 | \$225 | 51% | 0.2 |
| FE-WPP | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Grocery | Cooling Unitary | New | building | 28,953 | 0.5% | 0.05 | 5 | \$135 | 51% | 0.3 |
| FE-WPP | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Grocery | Cooling Unitary | Existing | building | 28,953 | 1.1% | 0.01 | 10 | \$101,057 | 86% | 0.0 |
| FE-WPP | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Grocery | Cooling Unitary | New | building | 28,953 | 1.1% | 0.01 | 10 | \$101,057 | 86% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|--|---|---------|-----------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) | Grocery | Cooling Unitary | Existing | building | 28,953 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.8 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Grocery | Cooling Unitary | New | building | 28,953 | 1.7% | 0.02 | 11 | \$146 | 49% | 1.4 |
| FE-WPP | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Grocery | Cooling Unitary | Early | unit | 180 | 19% | 0.05 | 15 | \$849 | 85% | 0.1 |
| FE-WPP | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Grocery | Cooling Unitary | New | unit | 182 | 20% | 0.05 | 15 | \$356 | 85% | 0.2 |
| FE-WPP | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Grocery | Cooling Unitary | ROB | unit | 182 | 20% | 0.05 | 15 | \$356 | 85% | 0.2 |
| FE-WPP | Re-Commissioning (Existing Construction) | No Re-Commissioning | Grocery | Cooling Unitary | Existing | building | 28,953 | 16% | 0.2 | 5 | \$19,254 | 86% | 0.1 |
| FE-WPP | Room AC (w/ louvered sides) | Existing efficiency Room AC in Pennsylvania (2000 Federal Standards) | Grocery | Cooling Unitary | Early | ton | 944 | 13% | 0.04 | 9 | \$348 | 82% | 0.2 |
| FE-WPP | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Grocery | Cooling Unitary | New | ton | 856 | 4.5% | 0.01 | 9 | \$17 | 82% | 1.2 |
| FE-WPP | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Grocery | Cooling Unitary | ROB | ton | 856 | 4.5% | 0.01 | 9 | \$17 | 82% | 1.2 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Grocery | Cooling Unitary | Existing | building | 28,953 | 19% | 0.2 | 15 | \$7,224 | 26% | 0.4 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Grocery | Cooling Unitary | New | building | 28,953 | 0.5% | 0.01 | 15 | \$5,541 | 94% | 0.0 |
| FE-WPP | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Grocery | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 1.0 |
| FE-WPP | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Grocery | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.3 |
| FE-WPP | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Grocery | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.3 |
| FE-WPP | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Grocery | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 0% | 0.2 |
| FE-WPP | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Grocery | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-WPP | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Grocery | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-WPP | LED exterior lighting | 250 Watt Incandescent | Grocery | Ext. Lighting | ROB | measure | 1,456 | 83% | 0.2 | 15 | \$104 | 89% | 7.2 |
| FE-WPP | LED exterior lighting | 250 Watt Incandescent | Grocery | Ext. Lighting | ROB | measure | 1,456 | 83% | 0.2 | 15 | \$104 | 89% | 7.2 |
| FE-WPP | LED exterior lighting | 250 Watt Incandescent | Grocery | Ext. Lighting | ROB | measure | 1,456 | 83% | 0.2 | 15 | \$104 | 89% | 7.2 |
| FE-WPP | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Grocery | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 75% | 0.3 |
| FE-WPP | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Grocery | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 75% | 0.2 |
| FE-WPP | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Grocery | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.6 |
| FE-WPP | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Grocery | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.0 |
| FE-WPP | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Grocery | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.6 |
| FE-WPP | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Grocery | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.0 |
| FE-WPP | Photocell Controls (Outdoor) | Lighting w/ No Controls | Grocery | Ext. Lighting | Existing | building | 524 | 28% | 0.3 | 8 | \$1,459 | 88% | 0.1 |
| FE-WPP | Photocell Controls (Outdoor) | Lighting w/ No Controls | Grocery | Ext. Lighting | New | building | 524 | 28% | 0.3 | 8 | \$1,459 | 0% | 0.1 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Grocery | Heat Pump | Existing | building | 2,978 | 6.9% | 0.07 | 6 | \$24,149 | 82% | 0.0 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Grocery | Heat Pump | New | building | 2,978 | 6.9% | 0.07 | 6 | \$24,149 | 82% | 0.0 |
| FE-WPP | Adding window shade film | No shade film | Grocery | Heat Pump | Existing | building | 2,978 | 3.9% | 0.4 | 10 | \$36 | 12% | 7.8 |
| FE-WPP | Adding window shade film | No shade film | Grocery | Heat Pump | New | building | 2,978 | 3.9% | 0.4 | 10 | \$36 | 12% | 7.8 |
| FE-WPP | Adding window shade screen | No shade screen | Grocery | Heat Pump | Existing | building | 2,978 | 0.3% | 0.01 | 10 | \$4.7 | 12% | 2.1 |
| FE-WPP | Adding window shade screen | No shade screen | Grocery | Heat Pump | New | building | 2,978 | 0.3% | 0.01 | 10 | \$4.7 | 12% | 2.1 |
| FE-WPP | Automated control system | Manual Controls | Grocery | Heat Pump | Existing | building | 2,978 | 17% | 0.2 | 15 | \$3,260 | 51% | 0.1 |
| FE-WPP | Automated control system | Manual Controls | Grocery | Heat Pump | New | building | 2,978 | 17% | 0.2 | 15 | \$3,260 | 94% | 0.1 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Grocery | Heat Pump | Existing | building | 2,978 | 9.8% | 0.10 | 15 | \$33,930 | 71% | 0.0 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Grocery | Heat Pump | New | building | 2,978 | 3.3% | 0.03 | 15 | \$32,251 | 94% | 0.0 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Grocery | Heat Pump | Existing | building | 2,978 | 4.0% | 0.04 | 15 | \$24 | 12% | 3.8 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Grocery | Heat Pump | New | building | 2,978 | 4.0% | 0.04 | 15 | \$24 | 6% | 3.8 |
| FE-WPP | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Grocery | Heat Pump | Early | heat pump | 2,534 | 11% | 0.02 | 15 | \$4,070 | 83% | 0.0 |
| FE-WPP | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Grocery | Heat Pump | New | heat pump | 2,445 | 8.0% | 0.02 | 15 | \$1,097 | 83% | 0.1 |
| FE-WPP | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Grocery | Heat Pump | ROB | heat pump | 2,445 | 8.0% | 0.02 | 15 | \$1,097 | 83% | 0.1 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Grocery | Heat Pump | Existing | building | 2,978 | 7.0% | 0.07 | 15 | \$13,209 | 25% | 0.0 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Grocery | Heat Pump | New | building | 2,978 | 7.0% | 0.07 | 15 | \$13,209 | 35% | 0.0 |
| FE-WPP | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Grocery | Heat Pump | Early | heat pump | 25,591 | 13% | 0.3 | 15 | \$91,117 | 19% | 0.0 |
| FE-WPP | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Grocery | Heat Pump | New | heat pump | 24,909 | 11% | 0.2 | 15 | \$33,927 | 19% | 0.0 |
| FE-WPP | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Grocery | Heat Pump | ROB | heat pump | 24,909 | 11% | 0.2 | 15 | \$33,927 | 19% | 0.0 |
| FE-WPP | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Grocery | Heat Pump | Early | heat pump | 25,591 | 13% | 0.3 | 15 | \$58,356 | 19% | 0.0 |
| FE-WPP | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Grocery | Heat Pump | New | heat pump | 24,909 | 11% | 0.2 | 15 | \$1,167 | 19% | 1.3 |
| FE-WPP | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Grocery | Heat Pump | ROB | heat pump | 24,909 | 11% | 0.2 | 15 | \$1,167 | 19% | 1.3 |
| FE-WPP | Hi Eff HVAC System Design | No HVAC Design | Grocery | Heat Pump | New | building | 2,978 | 9.3% | 0.09 | 10 | \$905,299 | 51% | 0.0 |
| FE-WPP | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Grocery | Heat Pump | Early | heat pump | 6,758 | 15% | 0.09 | 12 | \$4,298 | 81% | 0.1 |
| FE-WPP | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Grocery | Heat Pump | New | heat pump | 6,520 | 12% | 0.07 | 12 | \$852 | 81% | 0.4 |
| FE-WPP | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Grocery | Heat Pump | ROB | heat pump | 6,520 | 12% | 0.07 | 12 | \$852 | 81% | 0.4 |
| FE-WPP | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Grocery | Heat Pump | Existing | building | 2,978 | 5.0% | 0.01 | 5 | \$90 | 51% | 0.4 |
| FE-WPP | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Grocery | Heat Pump | New | building | 2,978 | 5.0% | 0.01 | 5 | \$90 | 51% | 0.4 |
| FE-WPP | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Grocery | Heat Pump | Existing | building | 2,978 | 1.1% | 0.01 | 10 | \$89,973 | 81% | 0.0 |
| FE-WPP | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Grocery | Heat Pump | New | building | 2,978 | 1.1% | 0.01 | 10 | \$89,973 | 81% | 0.0 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Grocery | Heat Pump | Existing | building | 2,978 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.1 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Grocery | Heat Pump | New | building | 2,978 | 2.1% | 0.02 | 11 | \$146 | 49% | 0.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|--|---------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Re-Commissioning (Existing Construction) | No Re-Commissioning | Grocery | Heat Pump | Existing | building | 2,978 | 16% | 0.2 | 5 | \$19,254 | 86% | 0.0 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Grocery | Heat Pump | Existing | building | 2,978 | 19% | 0.2 | 15 | \$7,224 | 26% | 0.1 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Grocery | Heat Pump | New | building | 2,978 | 0.5% | 0.01 | 15 | \$5,541 | 94% | 0.0 |
| FE-WPP | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Grocery | Heat Pump | Early | heat pump | 11,106 | 38% | 0.4 | 15 | \$35,347 | 28% | 0.1 |
| FE-WPP | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Grocery | Heat Pump | New | heat pump | 10,719 | 36% | 0.3 | 15 | \$15,739 | 28% | 0.1 |
| FE-WPP | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Grocery | Heat Pump | ROB | heat pump | 10,719 | 36% | 0.3 | 15 | \$15,739 | 28% | 0.1 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Grocery | High Bay Lighting | Early | Fixture | 1,363 | 9.6% | 0.02 | 13 | \$850 | 39% | 0.1 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Grocery | High Bay Lighting | Early | Fixture | 1,362 | 9.5% | 0.02 | 13 | \$850 | 28% | 0.1 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Grocery | High Bay Lighting | Early | Fixture | 2,102 | 41% | 0.1 | 13 | \$850 | 36% | 0.6 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Grocery | High Bay Lighting | New | Fixture | 1,036 | 9.6% | 0.02 | 13 | \$372 | 39% | 0.2 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Grocery | High Bay Lighting | New | Fixture | 964 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Grocery | High Bay Lighting | New | Fixture | 1,597 | 41% | 0.1 | 13 | \$397 | 36% | 0.9 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Grocery | High Bay Lighting | ROB | Fixture | 1,363 | 9.6% | 0.02 | 13 | \$372 | 39% | 0.2 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Grocery | High Bay Lighting | ROB | Fixture | 1,268 | 2.9% | 0.01 | 13 | \$338 | 28% | 0.1 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Grocery | High Bay Lighting | ROB | Fixture | 2,102 | 41% | 0.1 | 13 | \$397 | 36% | 1.2 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Grocery | High Bay Lighting | Early | Fixture | 2,645 | 19% | 0.09 | 13 | \$851 | 38% | 0.3 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Grocery | High Bay Lighting | Early | Fixture | 2,678 | 20% | 0.09 | 13 | \$851 | 38% | 0.4 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | Early | Fixture | 7,791 | 73% | 1.0 | 13 | \$851 | 38% | 3.8 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Grocery | High Bay Lighting | New | Fixture | 2,010 | 19% | 0.07 | 13 | \$372 | 38% | 0.6 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | New | Fixture | 5,921 | 73% | 0.7 | 13 | \$383 | 38% | 6.4 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Grocery | High Bay Lighting | ROB | Fixture | 2,645 | 19% | 0.09 | 13 | \$372 | 38% | 0.8 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | ROB | Fixture | 7,791 | 73% | 1.0 | 13 | \$383 | 38% | 8.4 |
| FE-WPP | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Grocery | High Bay Lighting | Early | Fixture | 2,645 | 25% | 0.1 | 13 | \$554 | 29% | 0.7 |
| FE-WPP | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Grocery | High Bay Lighting | Early | Fixture | 2,597 | 23% | 0.1 | 13 | \$554 | 28% | 0.6 |
| FE-WPP | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | Early | Fixture | 7,791 | 74% | 1.0 | 13 | \$554 | 36% | 5.9 |
| FE-WPP | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Grocery | High Bay Lighting | New | Fixture | 2,010 | 25% | 0.09 | 13 | \$75 | 29% | 3.8 |
| FE-WPP | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | New | Fixture | 5,921 | 74% | 0.8 | 13 | \$86 | 36% | 29.1 |
| FE-WPP | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Grocery | High Bay Lighting | ROB | Fixture | 2,645 | 25% | 0.1 | 13 | \$75 | 29% | 4.9 |
| FE-WPP | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | ROB | Fixture | 7,791 | 74% | 1.0 | 13 | \$86 | 36% | 38.3 |
| FE-WPP | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Grocery | High Bay Lighting | Early | Fixture | 690 | 0.2% | 0.00 | 13 | \$835 | 38% | 0.0 |
| FE-WPP | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Grocery | High Bay Lighting | Early | Fixture | 1,486 | 54% | 0.1 | 13 | \$835 | 38% | 0.5 |
| FE-WPP | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Grocery | High Bay Lighting | New | Fixture | 1,129 | 54% | 0.1 | 13 | \$382 | 38% | 0.9 |
| FE-WPP | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Grocery | High Bay Lighting | ROB | Fixture | 1,486 | 54% | 0.1 | 13 | \$382 | 38% | 1.2 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Grocery | High Bay Lighting | Early | Fixture | 3,370 | 18% | 0.1 | 13 | \$487 | 25% | 0.7 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Grocery | High Bay Lighting | Early | Fixture | 3,524 | 22% | 0.1 | 13 | \$487 | 28% | 0.9 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | Early | Fixture | 7,791 | 65% | 0.9 | 13 | \$487 | 36% | 5.9 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Grocery | High Bay Lighting | New | Fixture | 2,561 | 18% | 0.08 | 13 | \$16 | 25% | 16.3 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | New | Fixture | 5,921 | 65% | 0.7 | 13 | \$18 | 36% | 117.9 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Grocery | High Bay Lighting | ROB | Fixture | 3,370 | 18% | 0.1 | 13 | \$16 | 25% | 21.4 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | ROB | Fixture | 7,791 | 65% | 0.9 | 13 | \$18 | 36% | 155.1 |
| FE-WPP | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Grocery | High Bay Lighting | Early | Fixture | 3,370 | 1.5% | 0.01 | 13 | \$557 | 19% | 0.1 |
| FE-WPP | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Grocery | High Bay Lighting | Early | Fixture | 3,469 | 4.3% | 0.03 | 13 | \$557 | 19% | 0.2 |
| FE-WPP | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | Early | Fixture | 7,791 | 57% | 0.8 | 13 | \$557 | 19% | 4.5 |
| FE-WPP | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Grocery | High Bay Lighting | New | Fixture | 2,561 | 1.5% | 0.01 | 13 | \$86 | 19% | 0.3 |
| FE-WPP | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | New | Fixture | 5,921 | 57% | 0.6 | 13 | \$88 | 19% | 21.8 |
| FE-WPP | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Grocery | High Bay Lighting | ROB | Fixture | 3,370 | 1.5% | 0.01 | 13 | \$86 | 19% | 0.3 |
| FE-WPP | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | ROB | Fixture | 7,791 | 57% | 0.8 | 13 | \$88 | 19% | 28.7 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Grocery | High Bay Lighting | Early | Fixture | 1,431 | 29% | 0.05 | 13 | \$492 | 71% | 0.4 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Grocery | High Bay Lighting | Early | Fixture | 1,197 | 15% | 0.02 | 13 | \$492 | 95% | 0.2 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Grocery | High Bay Lighting | Early | Fixture | 1,778 | 43% | 0.09 | 13 | \$492 | 95% | 0.8 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Grocery | High Bay Lighting | Early | Fixture | 1,648 | 38% | 0.08 | 13 | \$492 | 95% | 0.7 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Grocery | High Bay Lighting | New | Fixture | 909 | 15% | 0.02 | 13 | \$25 | 95% | 2.9 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Grocery | High Bay Lighting | New | Fixture | 1,351 | 43% | 0.07 | 13 | \$51 | 95% | 5.9 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Grocery | High Bay Lighting | ROB | Fixture | 1,197 | 15% | 0.02 | 13 | \$25 | 95% | 3.8 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Grocery | High Bay Lighting | ROB | Fixture | 1,778 | 43% | 0.09 | 13 | \$51 | 95% | 7.8 |
| FE-WPP | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Grocery | High Bay Lighting | Early | lamp | 155 | 16% | 0.00 | 7 | \$7.7 | 99% | 1.2 |
| FE-WPP | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Grocery | High Bay Lighting | New | lamp | 92 | 13% | 0.00 | 7 | \$1.6 | 91% | 2.6 |
| FE-WPP | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Grocery | High Bay Lighting | ROB | lamp | 149 | 13% | 0.00 | 7 | \$1.6 | 91% | 4.1 |
| FE-WPP | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Grocery | High Bay Lighting | Early | Fixture | 7,972 | 23% | 0.3 | 13 | \$613 | 5% | 1.7 |
| FE-WPP | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Grocery | High Bay Lighting | Early | Fixture | 6,263 | 1.6% | 0.02 | 13 | \$613 | 28% | 0.1 |
| FE-WPP | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | Early | Fixture | 15,582 | 60% | 1.6 | 13 | \$613 | 18% | 8.7 |
| FE-WPP | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Grocery | High Bay Lighting | New | Fixture | 6,059 | 23% | 0.2 | 13 | \$96 | 5% | 8.1 |
| FE-WPP | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Grocery | High Bay Lighting | ROB | Fixture | 7,972 | 23% | 0.3 | 13 | \$96 | 5% | 10.6 |
| FE-WPP | Auto Off Time Switch | Lighting w/ No Controls | Grocery | High Bay Lighting | Existing | building | 5,164 | 24% | 0.2 | 8 | \$296 | 13% | 1.7 |
| FE-WPP | Auto Off Time Switch | Lighting w/ No Controls | Grocery | High Bay Lighting | New | building | 5,164 | 6.9% | 0.07 | 8 | \$296 | 0% | 0.5 |
| FE-WPP | Central Lighting Control System | Lighting w/ No Controls | Grocery | High Bay Lighting | Existing | building | 5,164 | 38% | 0.4 | 8 | \$296 | 13% | 2.7 |
| FE-WPP | Central Lighting Control System | Lighting w/ No Controls | Grocery | High Bay Lighting | New | building | 5,164 | 14% | 0.1 | 8 | \$296 | 13% | 1.0 |
| FE-WPP | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Grocery | High Bay Lighting | New | building | 5,164 | 10.0% | 0.1 | 15 | \$69,961 | 32% | 0.0 |
| FE-WPP | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Grocery | High Bay Lighting | New | building | 5,164 | 15% | 0.2 | 15 | \$174,902 | 32% | 0.0 |
| FE-WPP | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Grocery | High Bay Lighting | New | building | 5,164 | 30% | 0.3 | 15 | \$250,693 | 32% | 0.0 |
| FE-WPP | Indoor Daylight Sensors | Lighting w/ No Controls | Grocery | High Bay Lighting | Existing | building | 5,164 | 28% | 0.3 | 8 | \$1,459 | 13% | 0.4 |
| FE-WPP | Indoor Daylight Sensors | Lighting w/ No Controls | Grocery | High Bay Lighting | New | building | 5,164 | 4.0% | 0.04 | 8 | \$1,459 | 0% | 0.1 |
| FE-WPP | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Grocery | High Bay Lighting | Early | Fixture | 7,972 | 92% | 1.3 | 13 | \$1,916 | 95% | 2.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|--|---------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | Early | Fixture | 15,582 | 96% | 2.6 | 13 | \$1,916 | 95% | 4.4 |
| FE-WPP | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Grocery | High Bay Lighting | New | Fixture | 6,059 | 92% | 1.0 | 13 | \$1,468 | 95% | 2.2 |
| FE-WPP | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | New | Fixture | 11,842 | 96% | 2.0 | 13 | \$1,149 | 95% | 5.6 |
| FE-WPP | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Grocery | High Bay Lighting | ROB | Fixture | 7,972 | 92% | 1.3 | 13 | \$1,468 | 95% | 2.8 |
| FE-WPP | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | ROB | Fixture | 15,582 | 96% | 2.6 | 13 | \$1,149 | 95% | 7.4 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Grocery | High Bay Lighting | Early | Fixture | 2,645 | 67% | 0.3 | 13 | \$960 | 95% | 1.0 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Grocery | High Bay Lighting | Early | Fixture | 7,791 | 89% | 1.2 | 13 | \$960 | 95% | 4.1 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Grocery | High Bay Lighting | Early | Fixture | 2,138 | 59% | 0.2 | 13 | \$960 | 95% | 0.7 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Grocery | High Bay Lighting | New | Fixture | 2,010 | 67% | 0.2 | 13 | \$480 | 95% | 1.6 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Grocery | High Bay Lighting | New | Fixture | 5,921 | 89% | 0.9 | 13 | \$491 | 95% | 6.1 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Grocery | High Bay Lighting | New | Fixture | 1,625 | 59% | 0.2 | 13 | \$406 | 95% | 1.3 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Grocery | High Bay Lighting | ROB | Fixture | 2,645 | 67% | 0.3 | 13 | \$480 | 95% | 2.1 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Grocery | High Bay Lighting | ROB | Fixture | 7,791 | 89% | 1.2 | 13 | \$491 | 95% | 8.0 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Grocery | High Bay Lighting | ROB | Fixture | 2,138 | 59% | 0.2 | 13 | \$406 | 95% | 1.8 |
| FE-WPP | Occupancy Sensor | Lighting w/ No Controls | Grocery | High Bay Lighting | Existing | building | 5,164 | 24% | 0.2 | 8 | \$447 | 12% | 1.1 |
| FE-WPP | Occupancy Sensor | Lighting w/ No Controls | Grocery | High Bay Lighting | New | building | 5,164 | 6.9% | 0.07 | 8 | \$447 | 0% | 0.3 |
| FE-WPP | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Grocery | High Bay Lighting | Existing | building | 5,164 | 28% | 0.3 | 8 | \$1,459 | 12% | 0.4 |
| FE-WPP | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Grocery | High Bay Lighting | New | building | 5,164 | 4.0% | 0.04 | 8 | \$1,459 | 0% | 0.1 |
| FE-WPP | Time Clock Control | Lighting w/ No Controls | Grocery | High Bay Lighting | Existing | building | 5,164 | 28% | 0.3 | 8 | \$296 | 13% | 2.0 |
| FE-WPP | Time Clock Control | Lighting w/ No Controls | Grocery | High Bay Lighting | New | building | 5,164 | 4.0% | 0.04 | 8 | \$296 | 0% | 0.3 |
| FE-WPP | Auto Off Time Switch | Lighting w/ No Controls | Grocery | Lin. Fluor. Lighting | Existing | building | 41,759 | 24% | 0.2 | 8 | \$296 | 13% | 10.5 |
| FE-WPP | Auto Off Time Switch | Lighting w/ No Controls | Grocery | Lin. Fluor. Lighting | New | building | 41,759 | 7.0% | 0.07 | 8 | \$296 | 0% | 3.0 |
| FE-WPP | Central Lighting Control System | Lighting w/ No Controls | Grocery | Lin. Fluor. Lighting | Existing | building | 41,759 | 38% | 0.4 | 8 | \$296 | 12% | 16.6 |
| FE-WPP | Central Lighting Control System | Lighting w/ No Controls | Grocery | Lin. Fluor. Lighting | New | building | 41,759 | 14% | 0.1 | 8 | \$296 | 12% | 6.1 |
| FE-WPP | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Grocery | Lin. Fluor. Lighting | New | building | 41,759 | 10% | 0.1 | 15 | \$69,961 | 32% | 0.0 |
| FE-WPP | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Grocery | Lin. Fluor. Lighting | New | building | 41,759 | 15% | 0.2 | 15 | \$174,902 | 32% | 0.0 |
| FE-WPP | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Grocery | Lin. Fluor. Lighting | New | building | 41,759 | 30% | 0.3 | 15 | \$250,693 | 32% | 0.0 |
| FE-WPP | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Grocery | Lin. Fluor. Lighting | Early | Lamp | 312 | 38% | 0.02 | 7 | \$7.3 | 94% | 5.6 |
| FE-WPP | Indoor Daylight Sensors | Lighting w/ No Controls | Grocery | Lin. Fluor. Lighting | Existing | building | 41,759 | 28% | 0.3 | 8 | \$1,459 | 13% | 2.5 |
| FE-WPP | Indoor Daylight Sensors | Lighting w/ No Controls | Grocery | Lin. Fluor. Lighting | New | building | 41,759 | 4.1% | 0.04 | 8 | \$1,459 | 0% | 0.4 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | Early | Lamp | 165 | 19% | 0.01 | 8 | \$35 | 94% | 0.4 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 40W T12 Lamp, Magnetic Ballast | Grocery | Lin. Fluor. Lighting | Early | Lamp | 363 | 63% | 0.04 | 8 | \$35 | 94% | 2.6 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | Early | Lamp | 204 | 34% | 0.01 | 8 | \$35 | 94% | 0.8 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | Early | Lamp | 197 | 32% | 0.01 | 8 | \$35 | 94% | 0.7 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | New | Lamp | 126 | 19% | 0.00 | 8 | \$28 | 94% | 0.3 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | New | Lamp | 150 | 32% | 0.01 | 8 | \$29 | 94% | 0.7 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | New | Lamp | 155 | 34% | 0.01 | 8 | \$22 | 94% | 1.0 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | New | Lamp | 150 | 32% | 0.01 | 8 | \$29 | 94% | 0.7 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | ROB | Lamp | 165 | 19% | 0.01 | 8 | \$28 | 94% | 0.4 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | ROB | Lamp | 197 | 32% | 0.01 | 8 | \$29 | 94% | 0.9 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | ROB | Lamp | 204 | 34% | 0.01 | 8 | \$22 | 94% | 1.3 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | ROB | Lamp | 197 | 32% | 0.01 | 8 | \$29 | 94% | 0.9 |
| FE-WPP | Occupancy Sensor | Lighting w/ No Controls | Grocery | Lin. Fluor. Lighting | Existing | building | 41,759 | 24% | 0.2 | 8 | \$447 | 13% | 7.0 |
| FE-WPP | Occupancy Sensor | Lighting w/ No Controls | Grocery | Lin. Fluor. Lighting | New | building | 41,759 | 7.0% | 0.07 | 8 | \$447 | 0% | 2.0 |
| FE-WPP | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Grocery | Lin. Fluor. Lighting | Existing | building | 41,759 | 28% | 0.3 | 8 | \$1,459 | 12% | 2.5 |
| FE-WPP | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Grocery | Lin. Fluor. Lighting | New | building | 41,759 | 4.1% | 0.04 | 8 | \$1,459 | 0% | 0.4 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 40W T12 w/ Magnetic Ballast | Grocery | Lin. Fluor. Lighting | Early | Lamp | 312 | 54% | 0.03 | 7 | \$9.1 | 94% | 6.4 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | Early | Lamp | 200 | 28% | 0.01 | 7 | \$9.1 | 24% | 2.1 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | Early | Lamp | 194 | 26% | 0.01 | 7 | \$9.1 | 94% | 1.9 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | New | Lamp | 147 | 26% | 0.01 | 7 | \$2.5 | 94% | 5.2 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | New | Lamp | 147 | 26% | 0.01 | 7 | \$2.5 | 94% | 5.2 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | New | Lamp | 152 | 28% | 0.01 | 7 | \$2.5 | 24% | 5.9 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | New | Lamp | 147 | 26% | 0.01 | 7 | \$2.5 | 94% | 5.2 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | ROB | Lamp | 194 | 26% | 0.01 | 7 | \$2.5 | 94% | 6.9 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | ROB | Lamp | 194 | 26% | 0.01 | 7 | \$2.5 | 94% | 6.9 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | ROB | Lamp | 200 | 28% | 0.01 | 7 | \$2.5 | 24% | 7.7 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | ROB | Lamp | 194 | 26% | 0.01 | 7 | \$2.5 | 94% | 6.9 |
| FE-WPP | T8 Lamp (any length) Electronic Ballast | Standard T12 lamp (any length) | Grocery | Lin. Fluor. Lighting | Early | Lamp | 367 | 42% | 0.02 | 7 | \$14 | 94% | 3.8 |
| FE-WPP | Time Clock Control | Lighting w/ No Controls | Grocery | Lin. Fluor. Lighting | Existing | building | 41,759 | 28% | 0.3 | 8 | \$296 | 14% | 12.3 |
| FE-WPP | Time Clock Control | Lighting w/ No Controls | Grocery | Lin. Fluor. Lighting | New | building | 41,759 | 4.1% | 0.04 | 8 | \$296 | 0% | 1.8 |
| FE-WPP | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | Early | motor | 4,517 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.3 |
| FE-WPP | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | Early | motor | 4,517 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.3 |
| FE-WPP | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | Early | motor | 4,517 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|--|---------|---------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | New | motor | 236,474 | 0.5% | 0.2 | 15 | \$431 | 70% | 1.7 |
| FE-WPP | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | ROB | motor | 236,474 | 0.5% | 0.2 | 15 | \$431 | 70% | 1.7 |
| FE-WPP | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | ROB | motor | 236,474 | 0.5% | 0.2 | 15 | \$431 | 70% | 1.7 |
| FE-WPP | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | ROB | motor | 236,474 | 0.5% | 0.2 | 15 | \$431 | 70% | 1.7 |
| FE-WPP | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | ROB | motor | 236,474 | 0.5% | 0.2 | 15 | \$431 | 70% | 1.7 |
| FE-WPP | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | Early | motor | 31,614 | 2.9% | 0.1 | 15 | \$802 | 83% | 0.7 |
| FE-WPP | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | Early | motor | 31,614 | 2.9% | 0.1 | 15 | \$802 | 83% | 0.7 |
| FE-WPP | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | Early | motor | 31,614 | 2.9% | 0.1 | 15 | \$802 | 83% | 0.7 |
| FE-WPP | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | Early | motor | 31,614 | 2.9% | 0.1 | 15 | \$802 | 83% | 0.7 |
| FE-WPP | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | Early | motor | 31,614 | 2.9% | 0.1 | 15 | \$802 | 83% | 0.7 |
| FE-WPP | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | New | motor | 30,859 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.8 |
| FE-WPP | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | New | motor | 30,859 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.8 |
| FE-WPP | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | New | motor | 30,859 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.8 |
| FE-WPP | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | ROB | motor | 30,859 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.8 |
| FE-WPP | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | ROB | motor | 30,859 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.8 |
| FE-WPP | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | ROB | motor | 30,859 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.8 |
| FE-WPP | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | ROB | motor | 30,859 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.8 |
| FE-WPP | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | ROB | motor | 30,859 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.8 |
| FE-WPP | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | ROB | motor | 30,859 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.8 |
| FE-WPP | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | ROB | motor | 30,859 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.8 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | Early | motor | 298,049 | 1.3% | 0.5 | 15 | \$3,955 | 61% | 0.6 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | Early | motor | 298,049 | 1.3% | 0.5 | 15 | \$3,955 | 61% | 0.6 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | Early | motor | 298,049 | 1.3% | 0.5 | 15 | \$3,955 | 61% | 0.6 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | Early | motor | 298,049 | 1.3% | 0.5 | 15 | \$3,955 | 61% | 0.6 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | New | motor | 295,593 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.6 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | New | motor | 295,593 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.6 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | New | motor | 295,593 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.7 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | New | motor | 295,593 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.6 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | ROB | motor | 295,593 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.6 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | ROB | motor | 295,593 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.6 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | ROB | motor | 295,593 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.6 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | ROB | motor | 295,593 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.6 |
| FE-WPP | ASD HVAC Fan | Std. HVAC Fan | Grocery | Motors | New | measure | 2,699 | 9.1% | 0.03 | 15 | \$49,801 | 85% | 0.0 |
| FE-WPP | ASD HVAC Fan | Std. HVAC Fan | Grocery | Motors | ROB | measure | 2,699 | 9.1% | 0.03 | 15 | \$49,801 | 85% | 0.0 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Grocery | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 20.3 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Grocery | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 20.7 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Grocery | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 21.3 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Grocery | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 21.7 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Grocery | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 22.1 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Grocery | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 20.1 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Grocery | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 20.9 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Grocery | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 21.0 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Grocery | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 21.8 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Grocery | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 22.1 |
| FE-WPP | Escalator Motor Controller | Constant power control | Grocery | Motors | New | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 22% | 5.6 |
| FE-WPP | Escalator Motor Controller | Constant power control | Grocery | Motors | ROB | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 22% | 5.5 |
| FE-WPP | Variable Speed Drive Control, 15HP | Existing Motors w/out VSD Drive | Grocery | Motors | Early | motor | 61,717 | 70% | 6.3 | 15 | \$731 | 86% | 36.4 |
| FE-WPP | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Grocery | Motors | New | motor | 60,390 | 72% | 6.4 | 15 | \$731 | 86% | 36.4 |
| FE-WPP | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Grocery | Motors | ROB | motor | 60,390 | 72% | 6.4 | 15 | \$731 | 86% | 36.4 |
| FE-WPP | Variable Speed Drive Control, 40HP | Existing Motors w/out VSD Drive | Grocery | Motors | Early | motor | 161,040 | 71% | 16.8 | 15 | \$4,666 | 86% | 15.0 |
| FE-WPP | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Grocery | Motors | New | motor | 159,157 | 72% | 16.7 | 15 | \$4,666 | 86% | 15.0 |
| FE-WPP | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Grocery | Motors | ROB | motor | 159,157 | 71% | 16.7 | 15 | \$4,666 | 86% | 15.0 |
| FE-WPP | Variable Speed Drive Control, 5HP | Existing Motors w/out VFD Drive | Grocery | Motors | Early | motor | 21,395 | 71% | 2.3 | 15 | \$2,243 | 86% | 4.2 |
| FE-WPP | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Grocery | Motors | New | motor | 20,917 | 71% | 2.2 | 15 | \$2,243 | 86% | 4.1 |
| FE-WPP | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Grocery | Motors | ROB | motor | 20,917 | 72% | 2.2 | 15 | \$2,243 | 86% | 4.1 |
| FE-WPP | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Grocery | Motors | Early | motor | 3,452 | 32% | 0.1 | 15 | \$268 | 86% | 2.5 |
| FE-WPP | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Grocery | Motors | New | motor | 3,452 | 32% | 0.1 | 15 | \$268 | 86% | 2.5 |
| FE-WPP | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Grocery | Motors | ROB | motor | 3,452 | 32% | 0.1 | 15 | \$268 | 86% | 2.5 |
| FE-WPP | VFD on Chilled Water Pump | Motor w/out VFD Drive | Grocery | Motors | Early | motor | 16,590 | 55% | 2.7 | 15 | \$2,903 | 86% | 2.3 |
| FE-WPP | VFD on Chilled Water Pump | Motor w/out VFD Drive | Grocery | Motors | New | motor | 16,280 | 55% | 2.7 | 15 | \$2,843 | 86% | 2.3 |
| FE-WPP | VFD on Chilled Water Pump | Motor w/out VFD Drive | Grocery | Motors | ROB | motor | 16,280 | 55% | 2.7 | 15 | \$2,843 | 86% | 2.3 |
| FE-WPP | VFD on Condenser Water Pump | Motor w/out VFD Drive | Grocery | Motors | Early | motor | 18,641 | 32% | 3.2 | 15 | \$2,903 | 86% | 1.9 |
| FE-WPP | VFD on Condenser Water Pump | Motor w/out VFD Drive | Grocery | Motors | New | motor | 18,292 | 33% | 3.1 | 15 | \$2,843 | 86% | 1.9 |
| FE-WPP | VFD on Condenser Water Pump | Motor w/out VFD Drive | Grocery | Motors | ROB | motor | 18,292 | 33% | 3.1 | 15 | \$2,843 | 86% | 1.9 |
| FE-WPP | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Grocery | Motors | Early | motor | 27,718 | 56% | 0.00 | 15 | \$2,903 | 86% | 2.5 |
| FE-WPP | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Grocery | Motors | New | motor | 27,199 | 57% | 0.00 | 15 | \$2,843 | 86% | 2.6 |
| FE-WPP | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Grocery | Motors | ROB | motor | 27,199 | 57% | 0.00 | 15 | \$2,843 | 86% | 2.6 |
| FE-WPP | VFD on HVAC Fan | Motor w/out VFD | Grocery | Motors | Early | motor | 18,724 | 70% | 3.4 | 15 | \$2,903 | 86% | 3.2 |
| FE-WPP | VFD on HVAC Fan | Motor w/out VFD | Grocery | Motors | New | motor | 18,373 | 71% | 3.3 | 15 | \$2,843 | 86% | 3.3 |
| FE-WPP | VFD on HVAC Fan | Motor w/out VFD | Grocery | Motors | ROB | motor | 18,373 | 71% | 3.3 | 15 | \$2,843 | 86% | 3.3 |
| FE-WPP | Variable Speed Drives on Process Equipment | Constant speed control | Grocery | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 10.1 |
| FE-WPP | Variable Speed Drives on Process Equipment | Constant speed control | Grocery | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 10.1 |
| FE-WPP | Auto Off Time Switch | Lighting w/ No Controls | Grocery | Other Int. Lighting | Existing | building | 7,319 | 24% | 0.2 | 8 | \$296 | 13% | 2.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|--|---------|---------------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Auto Off Time Switch | Lighting w/ No Controls | Grocery | Other Int. Lighting | New | building | 7,319 | 7.0% | 0.07 | 8 | \$296 | 0% | 0.6 |
| FE-WPP | Central Lighting Control System | Lighting w/ No Controls | Grocery | Other Int. Lighting | Existing | building | 7,319 | 38% | 0.4 | 8 | \$296 | 13% | 3.5 |
| FE-WPP | Central Lighting Control System | Lighting w/ No Controls | Grocery | Other Int. Lighting | New | building | 7,319 | 14% | 0.1 | 8 | \$296 | 13% | 1.3 |
| FE-WPP | Cold Cathode Screw-In Bulb | 40W Incandescent Bulb | Grocery | Other Int. Lighting | Early | lamp | 382 | 87% | 0.06 | 4 | \$30 | 14% | 2.4 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Grocery | Other Int. Lighting | Early | lamp | 274 | 81% | 0.04 | 4 | \$30 | 11% | 1.6 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Grocery | Other Int. Lighting | New | lamp | 208 | 81% | 0.03 | 4 | \$21 | 14% | 1.7 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Grocery | Other Int. Lighting | New | lamp | 208 | 81% | 0.03 | 4 | \$23 | 14% | 1.6 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Grocery | Other Int. Lighting | New | lamp | 208 | 81% | 0.03 | 4 | \$22 | 11% | 1.7 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Grocery | Other Int. Lighting | ROB | lamp | 274 | 81% | 0.04 | 4 | \$21 | 14% | 2.3 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Grocery | Other Int. Lighting | ROB | lamp | 274 | 81% | 0.04 | 4 | \$23 | 14% | 2.1 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Grocery | Other Int. Lighting | ROB | lamp | 274 | 81% | 0.04 | 4 | \$22 | 11% | 2.2 |
| FE-WPP | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Grocery | Other Int. Lighting | Early | lamp | 382 | 75% | 0.05 | 2 | \$73 | 24% | 0.5 |
| FE-WPP | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Grocery | Other Int. Lighting | New | fixture | 416 | 65% | 0.05 | 13 | \$29 | 28% | 5.3 |
| FE-WPP | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Grocery | Other Int. Lighting | New | lamp | 208 | 65% | 0.02 | 2 | \$29 | 28% | 0.5 |
| FE-WPP | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Grocery | Other Int. Lighting | ROB | fixture | 547 | 65% | 0.06 | 13 | \$29 | 24% | 7.0 |
| FE-WPP | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Grocery | Other Int. Lighting | ROB | lamp | 274 | 65% | 0.03 | 2 | \$29 | 24% | 0.7 |
| FE-WPP | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Grocery | Other Int. Lighting | Early | lamp | 382 | 75% | 0.05 | 2 | \$3.2 | 24% | 10.4 |
| FE-WPP | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Grocery | Other Int. Lighting | New | lamp | 208 | 65% | 0.02 | 2 | \$1.8 | 24% | 8.8 |
| FE-WPP | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Grocery | Other Int. Lighting | ROB | lamp | 274 | 65% | 0.03 | 2 | \$1.8 | 24% | 11.6 |
| FE-WPP | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Grocery | Other Int. Lighting | ROB | lamp | 274 | 65% | 0.03 | 2 | \$1.8 | 24% | 11.6 |
| FE-WPP | Exit Sign Retrofit: CFL replacing Incandescent | One 23W Single Sided Incandescent Exit Sign | Grocery | Other Int. Lighting | Early | exit sign | 134 | 42% | 0.01 | 15 | \$48 | 22% | 0.7 |
| FE-WPP | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Grocery | Other Int. Lighting | New | building | 7,319 | 10% | 0.1 | 15 | \$69,961 | 32% | 0.0 |
| FE-WPP | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Grocery | Other Int. Lighting | New | building | 7,319 | 15% | 0.2 | 15 | \$174,902 | 32% | 0.0 |
| FE-WPP | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Grocery | Other Int. Lighting | New | building | 7,319 | 30% | 0.3 | 15 | \$250,693 | 32% | 0.0 |
| FE-WPP | Indoor Daylight Sensors | Lighting w/ No Controls | Grocery | Other Int. Lighting | Existing | building | 7,319 | 28% | 0.3 | 8 | \$1,459 | 13% | 0.5 |
| FE-WPP | Indoor Daylight Sensors | Lighting w/ No Controls | Grocery | Other Int. Lighting | New | building | 7,319 | 4.1% | 0.04 | 8 | \$1,459 | 0% | 0.1 |
| FE-WPP | LED Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Grocery | Other Int. Lighting | Early | sign | 153 | 87% | 0.02 | 15 | \$48 | 16% | 1.7 |
| FE-WPP | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Grocery | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 1.8 |
| FE-WPP | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Grocery | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 1.8 |
| FE-WPP | LED Task Lighting/Screw-In | 1 15W CFL bulb | Grocery | Other Int. Lighting | Early | lamp | 115 | 33% | 0.01 | 3 | \$9.6 | 24% | 0.7 |
| FE-WPP | LED Task Lighting/Screw-In | 1 60W Incandescent Bulb | Grocery | Other Int. Lighting | Early | lamp | 460 | 83% | 0.06 | 3 | \$9.6 | 24% | 6.5 |
| FE-WPP | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Grocery | Other Int. Lighting | New | lamp | 251 | 77% | 0.03 | 3 | \$7.9 | 24% | 4.0 |
| FE-WPP | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Grocery | Other Int. Lighting | New | lamp | 251 | 77% | 0.03 | 3 | \$7.9 | 24% | 4.0 |
| FE-WPP | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Grocery | Other Int. Lighting | ROB | lamp | 330 | 77% | 0.04 | 3 | \$7.9 | 24% | 5.2 |
| FE-WPP | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Grocery | Other Int. Lighting | ROB | lamp | 330 | 77% | 0.04 | 3 | \$7.9 | 24% | 5.2 |
| FE-WPP | Occupancy Sensor | Lighting w/ No Controls | Grocery | Other Int. Lighting | Existing | building | 7,319 | 24% | 0.2 | 8 | \$447 | 12% | 1.5 |
| FE-WPP | Occupancy Sensor | Lighting w/ No Controls | Grocery | Other Int. Lighting | New | building | 7,319 | 7.0% | 0.07 | 8 | \$447 | 0% | 0.4 |
| FE-WPP | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Grocery | Other Int. Lighting | Existing | building | 7,319 | 28% | 0.3 | 8 | \$1,459 | 12% | 0.5 |
| FE-WPP | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Grocery | Other Int. Lighting | New | building | 7,319 | 4.1% | 0.04 | 8 | \$1,459 | 0% | 0.1 |
| FE-WPP | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Grocery | Other Int. Lighting | Early | exit sign | 134 | 100% | 0.02 | 15 | \$173 | 26% | 0.5 |
| FE-WPP | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Grocery | Other Int. Lighting | New | exit sign | 77 | 100% | 0.01 | 15 | \$148 | 31% | 0.3 |
| FE-WPP | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Grocery | Other Int. Lighting | ROB | exit sign | 77 | 100% | 0.01 | 15 | \$148 | 26% | 0.3 |
| FE-WPP | Time Clock Control | Lighting w/ No Controls | Grocery | Other Int. Lighting | Existing | building | 7,319 | 28% | 0.3 | 8 | \$296 | 13% | 2.6 |
| FE-WPP | Time Clock Control | Lighting w/ No Controls | Grocery | Other Int. Lighting | New | building | 7,319 | 4.1% | 0.04 | 8 | \$296 | 0% | 0.4 |
| FE-WPP | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Grocery | Plug Load | Existing | building | 1,521 | 46% | 0.5 | 5 | \$189 | 4% | 1.6 |
| FE-WPP | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Grocery | Plug Load | New | building | 1,521 | 46% | 0.5 | 5 | \$189 | 4% | 1.6 |
| FE-WPP | Data Center - Server/Storage Consolidation | No Consolidation | Grocery | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-WPP | Data Center - Server/Storage Consolidation | No Consolidation | Grocery | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-WPP | Data Center - Server/Storage Virtualization | No Virtualization | Grocery | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-WPP | Data Center - Server/Storage Virtualization | No Virtualization | Grocery | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-WPP | Energy Star - Scanners | Std Scanner | Grocery | Plug Load | New | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| FE-WPP | Energy Star - Scanners | Std Scanner | Grocery | Plug Load | ROB | measure | 68 | 3.8% | 0.04 | 4 | \$130 | 7% | 0.1 |
| FE-WPP | Energy Star Battery Charging System (for small cordless products) | Std. Battery Charging System | Grocery | Plug Load | ROB | measure | 593 | 2.3% | 0.10 | 5 | \$65 | 4% | 0.6 |
| FE-WPP | Energy Star Dishwasher | Existing Dishwasher units | Grocery | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,580 | 16% | 1.0 |
| FE-WPP | Energy Star Dishwasher | Standard Dishwasher unit | Grocery | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 16% | 3.1 |
| FE-WPP | Energy Star Dishwasher | Standard Dishwasher unit | Grocery | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 16% | 3.1 |
| FE-WPP | Energy Star External Power Adapter | Std. Power Adapter | Grocery | Plug Load | New | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| FE-WPP | Energy Star External Power Adapter | Std. Power Adapter | Grocery | Plug Load | ROB | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| FE-WPP | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Grocery | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 17% | 0.2 |
| FE-WPP | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Grocery | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 1.9 |
| FE-WPP | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Grocery | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 1.9 |
| FE-WPP | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Grocery | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 9% | 0.8 |
| FE-WPP | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Grocery | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.6 |
| FE-WPP | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Grocery | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.6 |
| FE-WPP | ENERGY STAR® Copiers | 10% Less Efficient Copier | Grocery | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 18% | 0.0 |
| FE-WPP | ENERGY STAR® Copiers | One Conventional Copier | Grocery | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| FE-WPP | ENERGY STAR® Copiers | One Conventional Copier | Grocery | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| FE-WPP | ENERGY STAR® desktop | Standard computer | Grocery | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 69% | 0.1 |
| FE-WPP | ENERGY STAR® desktop | Standard computer | Grocery | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|---|---------|---------------|----------|-------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | ENERGY STAR® desktop | Standard computer | Grocery | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.3 |
| FE-WPP | ENERGY STAR® Fax | 10% Less Efficient Fax | Grocery | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 15% | 0.0 |
| FE-WPP | ENERGY STAR® Fax | One Conventional Fax | Grocery | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| FE-WPP | ENERGY STAR® Fax | One Conventional Fax | Grocery | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| FE-WPP | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Grocery | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 70% | 0.0 |
| FE-WPP | ENERGY STAR® Monitors | One Conventional Monitor | Grocery | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| FE-WPP | ENERGY STAR® Monitors | One Conventional Monitor | Grocery | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| FE-WPP | ENERGY STAR® Printers | 10% Less Efficient Printer | Grocery | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 44% | 0.0 |
| FE-WPP | ENERGY STAR® Printers | One Conventional Printer | Grocery | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| FE-WPP | ENERGY STAR® Printers | One Conventional Printer | Grocery | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| FE-WPP | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Grocery | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 43% | 0.1 |
| FE-WPP | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Grocery | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.7 |
| FE-WPP | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Grocery | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.7 |
| FE-WPP | ENERGY STAR® Televisions | 10% Less Efficient Television | Grocery | Plug Load | Early | Unit | 505 | 38% | 0.03 | 6 | \$672 | 40% | 0.1 |
| FE-WPP | ENERGY STAR® Televisions | One Conventional Television | Grocery | Plug Load | New | Unit | 459 | 32% | 0.02 | 6 | \$206 | 40% | 0.2 |
| FE-WPP | ENERGY STAR® Televisions | One Conventional Television | Grocery | Plug Load | ROB | Unit | 459 | 32% | 0.02 | 6 | \$206 | 40% | 0.2 |
| FE-WPP | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Grocery | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 24% | 0.3 |
| FE-WPP | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Grocery | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.6 |
| FE-WPP | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Grocery | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.6 |
| FE-WPP | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Grocery | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.2 |
| FE-WPP | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Grocery | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.2 |
| FE-WPP | Network PC Power Management | No PC Power Management | Grocery | Plug Load | Existing | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 8.1 |
| FE-WPP | Network PC Power Management | No PC Power Management | Grocery | Plug Load | New | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 8.1 |
| FE-WPP | Smart Strip Plug Outlets | Standard plug strip/outlet | Grocery | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.3 |
| FE-WPP | Smart Strip Plug Outlets | Standard plug strip/outlet | Grocery | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.3 |
| FE-WPP | Smart Strip Plug Outlets | Standard plug strip/outlet | Grocery | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-WPP | Smart Strip Plug Outlets | Standard plug strip/outlet | Grocery | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-WPP | Smart Strip Plug Outlets | Standard plug strip/outlet | Grocery | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-WPP | Smart Strip Plug Outlets | Standard plug strip/outlet | Grocery | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-WPP | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Grocery | Plug Load | Existing | building | 1,521 | 46% | 0.5 | 5 | \$180 | 3% | 1.7 |
| FE-WPP | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Grocery | Plug Load | New | building | 1,521 | 46% | 0.5 | 5 | \$180 | 3% | 1.7 |
| FE-WPP | Air curtain technology | Strip plastic curtain | Grocery | Refrigeration | New | building | 75,191 | 3.1% | 0.03 | 8 | \$132 | 35% | 5.2 |
| FE-WPP | Air curtain technology | Strip plastic curtain | Grocery | Refrigeration | New | building | 40,818 | 3.1% | 0.03 | 8 | \$134 | 35% | 2.8 |
| FE-WPP | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Grocery | Refrigeration | Existing | building | 90,229 | 0.7% | 0.01 | 12 | \$70 | 11% | 3.7 |
| FE-WPP | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Grocery | Refrigeration | New | building | 90,229 | 0.7% | 0.01 | 12 | \$70 | 11% | 3.7 |
| FE-WPP | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Grocery | Refrigeration | Existing | building | 90,229 | 1.5% | 0.02 | 12 | \$70 | 11% | 7.7 |
| FE-WPP | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Grocery | Refrigeration | New | building | 90,229 | 1.5% | 0.02 | 12 | \$70 | 11% | 7.7 |
| FE-WPP | Auto Closer on Refrigerator Door | Door w/out Autocloser | Grocery | Refrigeration | Existing | building | 75,191 | 1.4% | 0.01 | 8 | \$817 | 40% | 0.4 |
| FE-WPP | Auto Closer on Refrigerator Door | Door w/out Autocloser | Grocery | Refrigeration | Existing | building | 40,818 | 1.1% | 0.01 | 8 | \$1,208 | 40% | 0.1 |
| FE-WPP | Auto Closer on Refrigerator Door | Door w/out Autocloser | Grocery | Refrigeration | New | building | 75,191 | 1.4% | 0.01 | 8 | \$817 | 40% | 0.4 |
| FE-WPP | Auto Closer on Refrigerator Door | Door w/out Autocloser | Grocery | Refrigeration | New | building | 40,818 | 1.1% | 0.01 | 8 | \$1,208 | 40% | 0.1 |
| FE-WPP | Demand Hot Gas Defrost | Base Refrigeration System | Grocery | Refrigeration | Existing | measure | 90,229 | 3.0% | 0.03 | 10 | \$1,313 | 83% | 0.7 |
| FE-WPP | Demand Hot Gas Defrost | Base Refrigeration System | Grocery | Refrigeration | New | measure | 90,229 | 3.0% | 0.03 | 10 | \$1,313 | 79% | 0.7 |
| FE-WPP | Door Gasket- Freezer | Door w/out Gasket | Grocery | Refrigeration | Existing | building | 75,191 | 0.9% | 0.01 | 4 | \$84 | 29% | 1.4 |
| FE-WPP | Door Gasket- Freezer | Door w/out Gasket | Grocery | Refrigeration | New | building | 75,191 | 0.9% | 0.01 | 4 | \$84 | 29% | 1.3 |
| FE-WPP | Door Gasket- Refrigerator | Door w/out Gasket | Grocery | Refrigeration | Existing | building | 40,818 | 0.4% | 0.00 | 4 | \$167 | 45% | 0.2 |
| FE-WPP | Door Gasket- Refrigerator | Door w/out Gasket | Grocery | Refrigeration | New | building | 40,818 | 0.4% | 0.00 | 4 | \$167 | 45% | 0.2 |
| FE-WPP | Economizer for Walk-in Coolers | No Economizer | Grocery | Refrigeration | Early | measure | 213,168 | 12% | 3.6 | 10 | \$2,237 | 72% | 4.9 |
| FE-WPP | Economizer for Walk-in Coolers | No Economizer | Grocery | Refrigeration | Early | measure | 213,168 | 12% | 3.6 | 10 | \$2,237 | 72% | 4.9 |
| FE-WPP | Economizer for Walk-in Coolers | No Economizer | Grocery | Refrigeration | Early | measure | 213,168 | 12% | 3.6 | 10 | \$2,237 | 72% | 4.9 |
| FE-WPP | Economizer for Walk-in Coolers | No Economizer | Grocery | Refrigeration | New | measure | 213,168 | 12% | 3.6 | 10 | \$176 | 72% | 62.9 |
| FE-WPP | Economizer for Walk-in Coolers | No Economizer | Grocery | Refrigeration | New | measure | 213,168 | 12% | 3.6 | 10 | \$176 | 72% | 62.9 |
| FE-WPP | Economizer for Walk-in Coolers | No Economizer | Grocery | Refrigeration | New | measure | 213,168 | 12% | 3.6 | 10 | \$176 | 72% | 62.9 |
| FE-WPP | Economizer for Walk-in Coolers | No Economizer | Grocery | Refrigeration | ROB | measure | 213,168 | 12% | 3.6 | 10 | \$176 | 72% | 62.9 |
| FE-WPP | Economizer for Walk-in Coolers | No Economizer | Grocery | Refrigeration | ROB | measure | 213,168 | 12% | 3.6 | 10 | \$176 | 72% | 62.9 |
| FE-WPP | eCube | Refrigeration unit w/out eCube | Grocery | Refrigeration | Existing | building | 40,818 | 15% | 0.2 | 15 | \$637 | 57% | 4.7 |
| FE-WPP | eCube | Refrigeration unit w/out eCube | Grocery | Refrigeration | New | building | 40,818 | 15% | 0.2 | 15 | \$637 | 57% | 4.7 |
| FE-WPP | Efficient compressor motor | Base Refrigeration System - Grocery | Grocery | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 83% | 2.5 |
| FE-WPP | Efficient compressor motor | Base Refrigeration System - Grocery | Grocery | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 83% | 2.5 |
| FE-WPP | Efficient compressor motor | Base Refrigeration System - Grocery | Grocery | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 83% | 2.5 |
| FE-WPP | Efficient compressor motor | Base Refrigeration System - Grocery | Grocery | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 83% | 2.5 |
| FE-WPP | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Grocery | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.5 |
| FE-WPP | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Grocery | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| FE-WPP | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Grocery | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| FE-WPP | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Grocery | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|--|---------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Grocery | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.7 |
| FE-WPP | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Grocery | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.7 |
| FE-WPP | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Grocery | Refrigeration | Existing | building | 40,818 | 0.2% | 0.00 | 10 | \$369 | 77% | 0.1 |
| FE-WPP | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Grocery | Refrigeration | New | building | 40,818 | 0.2% | 0.00 | 10 | \$369 | 77% | 0.1 |
| FE-WPP | Floating head pressure controller | System w/out FHPC | Grocery | Refrigeration | Existing | building | 75,191 | 1.8% | 0.01 | 15 | \$8,682 | 41% | 0.1 |
| FE-WPP | Floating head pressure controller | System w/out FHPC | Grocery | Refrigeration | Existing | building | 40,818 | 1.2% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| FE-WPP | Floating head pressure controller | System w/out FHPC | Grocery | Refrigeration | Existing | building | 90,229 | 0.6% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| FE-WPP | Floating head pressure controller | System w/out FHPC | Grocery | Refrigeration | New | building | 75,191 | 1.8% | 0.01 | 15 | \$8,682 | 41% | 0.1 |
| FE-WPP | Floating head pressure controller | System w/out FHPC | Grocery | Refrigeration | New | building | 40,818 | 1.2% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| FE-WPP | Floating head pressure controller | System w/out FHPC | Grocery | Refrigeration | New | building | 90,229 | 0.6% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| FE-WPP | High Efficiency Commercial Freezer | Std. Commercial Freezer | Grocery | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 79% | 0.3 |
| FE-WPP | High Efficiency Commercial Freezer | Std. Commercial Freezer | Grocery | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 79% | 3.6 |
| FE-WPP | High Efficiency Commercial Freezer | Std. Commercial Freezer | Grocery | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 79% | 3.6 |
| FE-WPP | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Grocery | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 79% | 0.1 |
| FE-WPP | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Grocery | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 79% | 0.8 |
| FE-WPP | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Grocery | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 79% | 0.8 |
| FE-WPP | High Efficiency Ice Maker | Existing Standard Efficiency Ice Maker in Pennsylvania | Grocery | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 69% | 0.1 |
| FE-WPP | High Efficiency Ice Maker | Standard code minimum Ice Maker | Grocery | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 69% | 0.2 |
| FE-WPP | High Efficiency Ice Maker | Standard code minimum Ice Maker | Grocery | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 69% | 0.2 |
| FE-WPP | High Efficiency Ice Making Head | Standard Ice Making Head | Grocery | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.6 |
| FE-WPP | High Efficiency Ice Making Head | Standard Ice Making Head | Grocery | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.6 |
| FE-WPP | High R-Value Glass Doors | Base Refrigeration System - Grocery | Grocery | Refrigeration | Existing | building | 90,229 | 0.7% | 0.01 | 10 | \$314 | 90% | 0.7 |
| FE-WPP | High R-Value Glass Doors | Base Refrigeration System - Grocery | Grocery | Refrigeration | New | building | 90,229 | 0.7% | 0.01 | 10 | \$314 | 90% | 0.7 |
| FE-WPP | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Grocery | Refrigeration | Early | Fixture | 373 | 56% | 0.03 | 8 | \$448 | 89% | 0.2 |
| FE-WPP | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Grocery | Refrigeration | New | Fixture | 291 | 44% | 0.02 | 8 | \$139 | 89% | 0.3 |
| FE-WPP | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Grocery | Refrigeration | ROB | Fixture | 291 | 44% | 0.02 | 8 | \$139 | 89% | 0.3 |
| FE-WPP | No-heat glass doors | Standard low-temp reach-in | Grocery | Refrigeration | Existing | building | 90,229 | 20% | 0.2 | 10 | \$28,729 | 8% | 0.2 |
| FE-WPP | No-heat glass doors | Standard low-temp reach-in | Grocery | Refrigeration | New | building | 90,229 | 20% | 0.2 | 10 | \$28,729 | 8% | 0.2 |
| FE-WPP | Quick acting freezer doors | Std. Freezer Doors | Grocery | Refrigeration | Existing | building | 75,191 | 13% | 0.1 | 10 | \$16,905 | 56% | 0.2 |
| FE-WPP | Quick acting freezer doors | Std. Freezer Doors | Grocery | Refrigeration | New | building | 75,191 | 13% | 0.1 | 10 | \$16,905 | 56% | 0.2 |
| FE-WPP | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Grocery | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 29% | 0.4 |
| FE-WPP | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Grocery | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 29% | 1.4 |
| FE-WPP | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Grocery | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 29% | 1.5 |
| FE-WPP | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 29% | 1.5 |
| FE-WPP | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 29% | 2.6 |
| FE-WPP | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 29% | 2.6 |
| FE-WPP | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 29% | 1.5 |
| FE-WPP | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 29% | 3.5 |
| FE-WPP | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 29% | 3.5 |
| FE-WPP | Refrigeration Commissioning | Non-commissioned refrigeration system | Grocery | Refrigeration | Existing | building | 214,832 | 9.5% | 0.10 | 3 | \$35,188 | 85% | 0.1 |
| FE-WPP | Refrigeration Commissioning | Non-commissioned refrigeration system | Grocery | Refrigeration | New | building | 214,832 | 9.5% | 0.10 | 3 | \$35,188 | 85% | 0.1 |
| FE-WPP | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Grocery | Refrigeration | Existing | building | 75,191 | 1.8% | 0.02 | 4 | \$102 | 22% | 2.2 |
| FE-WPP | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Grocery | Refrigeration | Existing | building | 40,818 | 0.5% | 0.01 | 4 | \$203 | 22% | 0.2 |
| FE-WPP | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Grocery | Refrigeration | New | building | 75,191 | 1.8% | 0.02 | 4 | \$102 | 22% | 2.2 |
| FE-WPP | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Grocery | Refrigeration | New | building | 40,818 | 0.5% | 0.01 | 4 | \$203 | 22% | 0.2 |
| FE-WPP | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Grocery | Refrigeration | Existing | building | 75,191 | 0.4% | 0.00 | 11 | \$167 | 77% | 0.7 |
| FE-WPP | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Grocery | Refrigeration | New | building | 75,191 | 0.4% | 0.00 | 11 | \$167 | 77% | 0.7 |
| FE-WPP | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Grocery | Refrigeration | Existing | building | 40,818 | 0.3% | 0.00 | 11 | \$167 | 77% | 0.3 |
| FE-WPP | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Grocery | Refrigeration | New | building | 40,818 | 0.3% | 0.00 | 11 | \$167 | 77% | 0.3 |
| FE-WPP | Vendor Miser | No Vendor Miser | Grocery | Refrigeration | Existing | machine | 8,593 | 0.5% | 0.00 | 8 | \$38 | 7% | 0.4 |
| FE-WPP | Vertical Night Covers | Display cases w/out night covers-High Temperature | Grocery | Refrigeration | Existing | building | 90,229 | 0.1% | 0.00 | 5 | \$242 | 9% | 0.1 |
| FE-WPP | Vertical Night Covers | Display cases w/out night covers-High Temperature | Grocery | Refrigeration | New | building | 90,229 | 0.1% | 0.00 | 5 | \$242 | 9% | 0.1 |
| FE-WPP | VSD Controlled Compressor | Compressor w/out VSD | Grocery | Refrigeration | Early | Refrigerator | 7,487 | 14% | 0.1 | 15 | \$731 | 73% | 0.8 |
| FE-WPP | VSD Controlled Compressor | Compressor w/out VSD | Grocery | Refrigeration | New | Refrigerator | 7,487 | 14% | 0.1 | 15 | \$731 | 73% | 0.8 |
| FE-WPP | VSD Controlled Compressor | Compressor w/out VSD | Grocery | Refrigeration | ROB | Refrigerator | 7,487 | 14% | 0.1 | 15 | \$731 | 73% | 0.8 |
| FE-WPP | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Grocery | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$269 | 35% | 0.8 |
| FE-WPP | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Grocery | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$269 | 35% | 0.8 |
| FE-WPP | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Grocery | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 2.8 |
| FE-WPP | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Grocery | Refrigeration | New | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 2.7 |
| FE-WPP | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Grocery | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 2.8 |
| FE-WPP | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Grocery | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 2.7 |
| FE-WPP | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 35% | 2.1 |
| FE-WPP | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 35% | 2.0 |
| FE-WPP | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 4.6 |
| FE-WPP | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.3 |
| FE-WPP | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 4.6 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|---|---------|-----------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.3 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Grocery | Space Heating | Existing | building | 15,746 | 7.1% | 0.07 | 6 | \$24,149 | 82% | 0.0 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Grocery | Space Heating | New | building | 15,746 | 7.1% | 0.07 | 6 | \$24,149 | 82% | 0.0 |
| FE-WPP | Adding window shade film | No shade film | Grocery | Space Heating | Existing | building | 15,746 | 1.3% | 0.4 | 10 | \$192 | 13% | 1.6 |
| FE-WPP | Adding window shade film | No shade film | Grocery | Space Heating | New | building | 15,746 | 1.3% | 0.4 | 10 | \$192 | 13% | 1.6 |
| FE-WPP | Adding window shade screen | No shade screen | Grocery | Space Heating | Existing | building | 15,746 | 1.1% | 0.01 | 10 | \$74 | 13% | 0.9 |
| FE-WPP | Adding window shade screen | No shade screen | Grocery | Space Heating | New | building | 15,746 | 1.1% | 0.01 | 10 | \$74 | 13% | 0.9 |
| FE-WPP | Automated control system | Manual Controls | Grocery | Space Heating | Existing | building | 15,746 | 17% | 0.2 | 15 | \$17,238 | 51% | 0.1 |
| FE-WPP | Automated control system | Manual Controls | Grocery | Space Heating | New | building | 15,746 | 17% | 0.2 | 15 | \$17,238 | 94% | 0.1 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Grocery | Space Heating | Existing | building | 15,746 | 9.8% | 0.10 | 15 | \$33,930 | 71% | 0.0 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Grocery | Space Heating | New | building | 15,746 | 3.3% | 0.03 | 15 | \$32,251 | 94% | 0.0 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Grocery | Space Heating | Existing | building | 15,746 | 1.4% | 0.04 | 15 | \$125 | 20% | 1.1 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Grocery | Space Heating | New | building | 15,746 | 1.4% | 0.04 | 15 | \$125 | 10% | 1.1 |
| FE-WPP | Efficient Unit Heating System | Existing Unit Heaters in PA | Grocery | Space Heating | Early | heater | 41,907 | 23% | 0.07 | 15 | \$3,289 | 83% | 1.4 |
| FE-WPP | Efficient Unit Heating System | Std. Unit Heater | Grocery | Space Heating | New | heater | 37,192 | 13% | 0.04 | 15 | \$1,991 | 83% | 1.1 |
| FE-WPP | Efficient Unit Heating System | Std. Unit Heater | Grocery | Space Heating | ROB | heater | 37,192 | 13% | 0.04 | 15 | \$1,991 | 83% | 1.1 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Grocery | Space Heating | Existing | building | 15,746 | 7.1% | 0.07 | 15 | \$69,846 | 25% | 0.0 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Grocery | Space Heating | New | building | 15,746 | 7.1% | 0.07 | 15 | \$69,846 | 35% | 0.0 |
| FE-WPP | Hi Eff HVAC System Design | No HVAC Design | Grocery | Space Heating | New | building | 15,746 | 9.3% | 0.09 | 10 | \$905,299 | 51% | 0.0 |
| FE-WPP | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Grocery | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 0.9 |
| FE-WPP | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Grocery | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 0.9 |
| FE-WPP | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Grocery | Space Heating | Existing | building | 15,746 | 1.1% | 0.01 | 10 | \$7,735 | 81% | 0.0 |
| FE-WPP | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Grocery | Space Heating | New | building | 15,746 | 1.1% | 0.01 | 10 | \$7,735 | 81% | 0.0 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Grocery | Space Heating | Existing | building | 15,746 | 3.6% | 0.04 | 11 | \$286 | 49% | 0.8 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Grocery | Space Heating | New | building | 15,746 | 3.1% | 0.03 | 11 | \$146 | 49% | 1.3 |
| FE-WPP | Re-Commissioning (Existing Construction) | No Re-Commissioning | Grocery | Space Heating | Existing | building | 15,746 | 16% | 0.2 | 5 | \$19,254 | 86% | 0.0 |
| FE-WPP | VFD on Cooling Tower Fan | Motor w/out VFD | Grocery | Space Heating | Early | motor | 18,724 | 70% | 3.4 | 15 | \$2,843 | 88% | 3.2 |
| FE-WPP | VFD on Cooling Tower Fan | Motor w/out VFD | Grocery | Space Heating | New | motor | 18,373 | 72% | 3.3 | 15 | \$2,843 | 88% | 3.1 |
| FE-WPP | VFD on Cooling Tower Fan | Motor w/out VFD | Grocery | Space Heating | ROB | motor | 18,373 | 72% | 3.3 | 15 | \$2,843 | 88% | 3.1 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Grocery | Space Heating | Existing | building | 15,746 | 19% | 0.2 | 15 | \$7,224 | 26% | 0.2 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Grocery | Space Heating | New | building | 15,746 | 0.5% | 0.01 | 15 | \$5,541 | 94% | 0.0 |
| FE-WPP | Green LED Traffic Light | Green Incandescent Traffic Light | Grocery | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 0% | 1.1 |
| FE-WPP | Green LED Traffic Light | Green Incandescent Traffic Light | Grocery | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| FE-WPP | Green LED Traffic Light | Green Incandescent Traffic Light | Grocery | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| FE-WPP | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Grocery | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 0% | 2.8 |
| FE-WPP | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Grocery | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-WPP | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Grocery | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-WPP | Induction Street Lighting | One 100W HPS Street Light Fixture | Grocery | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 0% | 0.3 |
| FE-WPP | Induction Street Lighting | One 100W HPS Street Light Fixture | Grocery | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.6 |
| FE-WPP | Induction Street Lighting | One 100W HPS Street Light Fixture | Grocery | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.6 |
| FE-WPP | LED Street Lighting | One 100W HPS Street Light | Grocery | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 0% | 0.2 |
| FE-WPP | LED Street Lighting | One 100W HPS Street Light | Grocery | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-WPP | LED Street Lighting | One 100W HPS Street Light | Grocery | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-WPP | Red LED Traffic Light | One Red Incandescent Traffic Light | Grocery | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 0% | 1.5 |
| FE-WPP | Red LED Traffic Light | One Red Incandescent Traffic Light | Grocery | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| FE-WPP | Red LED Traffic Light | One Red Incandescent Traffic Light | Grocery | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| FE-WPP | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Grocery | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 0% | 0.1 |
| FE-WPP | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Grocery | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-WPP | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Grocery | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-WPP | Demand controlled Circulating Systems | Constant circulation system | Grocery | Water Heating | Existing | building | 1,428 | 20% | 0.2 | 15 | \$259 | 59% | 1.2 |
| FE-WPP | Demand controlled Circulating Systems | Constant circulation system | Grocery | Water Heating | New | building | 1,428 | 20% | 0.2 | 15 | \$259 | 59% | 1.2 |
| FE-WPP | Drainwater Heat Recovery Water Heater | No heat recovery | Grocery | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.7 |
| FE-WPP | Drainwater Heat Recovery Water Heater | No heat recovery | Grocery | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.7 |
| FE-WPP | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Grocery | Water Heating | Existing | building | 1,428 | 5.9% | 0.06 | 12 | \$28 | 85% | 2.8 |
| FE-WPP | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Grocery | Water Heating | New | building | 1,428 | 5.9% | 0.06 | 12 | \$8.0 | 85% | 9.7 |
| FE-WPP | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Grocery | Water Heating | Early | water heater | 86,559 | 66% | 10.1 | 10 | \$3,562 | 68% | 7.5 |
| FE-WPP | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Grocery | Water Heating | Early | water heater | 86,559 | 66% | 10.1 | 10 | \$3,562 | 68% | 7.5 |
| FE-WPP | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Grocery | Water Heating | New | water heater | 86,559 | 66% | 10.1 | 10 | \$3,562 | 68% | 7.5 |
| FE-WPP | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Grocery | Water Heating | New | water heater | 86,559 | 66% | 10.1 | 10 | \$3,562 | 68% | 7.5 |
| FE-WPP | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Grocery | Water Heating | ROB | water heater | 84,155 | 65% | 9.7 | 10 | \$3,562 | 68% | 7.1 |
| FE-WPP | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Grocery | Water Heating | ROB | water heater | 84,155 | 65% | 9.7 | 10 | \$3,562 | 68% | 7.1 |
| FE-WPP | Heat Recovery Unit | Base Water Heating | Grocery | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.5 |
| FE-WPP | Heat Recovery Unit | Base Water Heating | Grocery | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.5 |
| FE-WPP | Heat Trap | No Heat Trap | Grocery | Water Heating | Existing | building | 1,428 | 22% | 0.2 | 11 | \$9.7 | 50% | 28.3 |
| FE-WPP | Heat Trap | No Heat Trap | Grocery | Water Heating | New | building | 1,428 | 22% | 0.2 | 11 | \$1.4 | 50% | 189.7 |
| FE-WPP | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Grocery | Water Heating | Early | water heater | 86,559 | 5.9% | 0.9 | 15 | \$921 | 79% | 3.6 |
| FE-WPP | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Grocery | Water Heating | Early | water heater | 86,559 | 5.9% | 0.9 | 15 | \$921 | 79% | 3.6 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|--|---|------------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Grocery | Water Heating | New | water heater | 84,155 | 3.2% | 0.5 | 15 | \$921 | 79% | 1.9 |
| FE-WPP | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Grocery | Water Heating | New | water heater | 84,155 | 3.2% | 0.5 | 15 | \$921 | 79% | 1.9 |
| FE-WPP | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Grocery | Water Heating | ROB | water heater | 84,155 | 3.2% | 0.5 | 15 | \$921 | 79% | 1.9 |
| FE-WPP | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Grocery | Water Heating | ROB | water heater | 84,155 | 3.2% | 0.5 | 15 | \$921 | 79% | 1.9 |
| FE-WPP | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Grocery | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$466 | 81% | 36.2 |
| FE-WPP | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Grocery | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 18.8 |
| FE-WPP | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Grocery | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 18.9 |
| FE-WPP | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Grocery | Water Heating | Existing | building | 1,428 | 4.3% | 0.04 | 13 | \$9.2 | 68% | 6.5 |
| FE-WPP | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Grocery | Water Heating | New | building | 1,428 | 4.3% | 0.04 | 13 | \$9.2 | 0% | 6.5 |
| FE-WPP | Hot Water Circulation Pump Time-Clock | Constant circulation system | Grocery | Water Heating | Existing | building | 1,428 | 5.3% | 0.05 | 10 | \$5.8 | 72% | 10.6 |
| FE-WPP | Hot Water Circulation Pump Time-Clock | Constant circulation system | Grocery | Water Heating | New | building | 1,428 | 5.3% | 0.05 | 10 | \$5.8 | 72% | 10.6 |
| FE-WPP | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Grocery | Water Heating | Existing | building | 1,314 | 0.1% | 0.00 | 7 | \$22 | 78% | 0.0 |
| FE-WPP | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Grocery | Water Heating | New | building | 1,314 | 0.1% | 0.00 | 7 | \$0.5 | 78% | 1.8 |
| FE-WPP | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Grocery | Water Heating | Existing | building | 1,428 | 13% | 0.1 | 5 | \$300 | 20% | 0.3 |
| FE-WPP | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Grocery | Water Heating | New | building | 1,428 | 8.9% | 0.09 | 5 | \$194 | 20% | 0.3 |
| FE-WPP | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Grocery | Water Heating | Existing | building | 1,428 | 6.5% | 0.07 | 9 | \$25 | 2% | 2.8 |
| FE-WPP | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Grocery | Water Heating | New | building | 1,428 | 6.5% | 0.07 | 9 | \$6.0 | 2% | 11.6 |
| FE-WPP | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Grocery | Water Heating | Early | water heater | 86,559 | 52% | 3.7 | 15 | \$18,666 | 32% | 1.4 |
| FE-WPP | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Grocery | Water Heating | New | water heater | 84,155 | 51% | 3.5 | 15 | \$18,666 | 32% | 1.3 |
| FE-WPP | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Grocery | Water Heating | ROB | water heater | 84,155 | 51% | 3.5 | 15 | \$18,666 | 32% | 1.3 |
| FE-WPP | Ultrasonic Faucet Control | Manual Faucet Control | Grocery | Water Heating | Existing | building | 1,428 | 3.0% | 0.03 | 10 | \$247 | 77% | 0.1 |
| FE-WPP | Ultrasonic Faucet Control | Manual Faucet Control | Grocery | Water Heating | New | building | 1,428 | 3.1% | 0.03 | 10 | \$247 | 77% | 0.1 |
| FE-WPP | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Grocery | Water Heating | Existing | building | 1,428 | 2.2% | 0.02 | 4 | \$28 | 83% | 0.4 |
| FE-WPP | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Grocery | Water Heating | New | building | 1,428 | 2.3% | 0.02 | 4 | \$28 | 83% | 0.5 |
| FE-WPP | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Healthcare | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.0 |
| FE-WPP | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Healthcare | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.0 |
| FE-WPP | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Healthcare | Cooking | Early | steamer | 51 | 46% | 0.00 | 12 | \$5,053 | 81% | 0.0 |
| FE-WPP | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Healthcare | Cooking | New | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-WPP | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Healthcare | Cooking | ROB | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-WPP | Electric combination oven (Energy Star) | Standard Oven | Healthcare | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.8 |
| FE-WPP | Electric combination oven (Energy Star) | Standard Oven | Healthcare | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.8 |
| FE-WPP | Electric Convection Oven | Conventional convection oven w/ 65% efficiency | Healthcare | Cooking | Early | oven | 8,641 | 37% | 0.6 | 12 | \$4,119 | 81% | 0.4 |
| FE-WPP | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Healthcare | Cooking | New | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.7 |
| FE-WPP | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Healthcare | Cooking | ROB | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.7 |
| FE-WPP | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Healthcare | Cooking | Early | fryer | 6,105 | 23% | 0.3 | 12 | \$9,241 | 86% | 0.1 |
| FE-WPP | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Healthcare | Cooking | New | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| FE-WPP | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Healthcare | Cooking | ROB | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| FE-WPP | High Efficiency Griddle (ENERGY STAR) | Efficiency code minimum griddle (70% eff) | Healthcare | Cooking | Early | griddle | 11,317 | 65% | 1.4 | 12 | \$4,977 | 86% | 0.8 |
| FE-WPP | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Healthcare | Cooking | New | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.1 |
| FE-WPP | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Healthcare | Cooking | ROB | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.1 |
| FE-WPP | High Efficiency Induction Cooking | Standard Cooking | Healthcare | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-WPP | High Efficiency Induction Cooking | Standard Cooking | Healthcare | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-WPP | Solid-state temperature controls | No Solid State Controls | Healthcare | Cooking | Existing | building | 15,561 | 3.6% | 0.04 | 12 | \$70 | 34% | 3.5 |
| FE-WPP | Active chilled beam cooling | No Active Chilled beam cooling | Healthcare | Cooling Central | New | building | 10,069 | 5.3% | 0.05 | 15 | \$2,632 | 72% | 0.1 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Healthcare | Cooling Central | Existing | building | 10,599 | 7.0% | 0.07 | 6 | \$15,042 | 82% | 0.0 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Healthcare | Cooling Central | New | building | 10,599 | 7.0% | 0.07 | 6 | \$15,042 | 82% | 0.0 |
| FE-WPP | Adding window shade film | No shade film | Healthcare | Cooling Central | Existing | building | 10,599 | 1.3% | 0.4 | 10 | \$129 | 12% | 2.3 |
| FE-WPP | Adding window shade film | No shade film | Healthcare | Cooling Central | New | building | 10,599 | 1.3% | 0.4 | 10 | \$129 | 13% | 2.3 |
| FE-WPP | Adding window shade screen | No shade screen | Healthcare | Cooling Central | Existing | building | 10,599 | 1.0% | 0.01 | 10 | \$50 | 13% | 0.9 |
| FE-WPP | Adding window shade screen | No shade screen | Healthcare | Cooling Central | New | building | 10,599 | 1.1% | 0.01 | 10 | \$50 | 13% | 0.9 |
| FE-WPP | Automated control system | Manual Controls | Healthcare | Cooling Central | Existing | building | 10,599 | 17% | 0.2 | 15 | \$11,604 | 51% | 0.1 |
| FE-WPP | Automated control system | Manual Controls | Healthcare | Cooling Central | New | building | 10,599 | 17% | 0.2 | 15 | \$11,604 | 94% | 0.1 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Healthcare | Cooling Central | Existing | building | 10,599 | 1.0% | 0.01 | 15 | \$20,566 | 71% | 0.0 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Healthcare | Cooling Central | New | building | 10,599 | 0.3% | 0.00 | 15 | \$19,549 | 94% | 0.0 |
| FE-WPP | Chilled Water Reset, Optimizer System for Chiller(s) | No Chilled Water Reset | Healthcare | Cooling Central | Existing | building | 10,599 | 3.7% | 0.04 | 10 | \$48 | 69% | 3.4 |
| FE-WPP | Chiller Tune Up Diagnostics | No Chiller Tune Up | Healthcare | Cooling Central | Existing | building | 10,599 | 2.3% | 0.02 | 10 | \$11 | 59% | 9.5 |
| FE-WPP | Chiller Tuneup/Diagnostics | No tuneup | Healthcare | Cooling Central | Existing | building | 10,599 | 8.0% | 0.08 | 10 | \$27,064 | 59% | 0.0 |
| FE-WPP | Chiller Tuneup/Diagnostics | No tuneup | Healthcare | Cooling Central | New | building | 10,599 | 8.0% | 0.08 | 10 | \$27,064 | 59% | 0.0 |
| FE-WPP | Cooling Tower Optimization | No Cooling Tower Optimization | Healthcare | Cooling Central | Existing | building | 10,599 | 4.9% | 0.05 | 10 | \$48 | 73% | 4.5 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Healthcare | Cooling Central | Existing | building | 10,599 | 1.4% | 0.04 | 15 | \$84 | 20% | 1.3 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Healthcare | Cooling Central | New | building | 10,599 | 1.4% | 0.04 | 15 | \$84 | 10% | 1.3 |
| FE-WPP | Facility Commissioning | No Facility Commissioning | Healthcare | Cooling Central | New | building | 10,599 | 16% | 0.2 | 10 | \$67,587 | 89% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|--|--|------------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Healthcare | Cooling Central | Existing | building | 10,599 | 7.0% | 0.07 | 15 | \$47,015 | 25% | 0.0 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Healthcare | Cooling Central | New | building | 10,599 | 7.0% | 0.07 | 15 | \$47,015 | 35% | 0.0 |
| FE-WPP | Hi Eff HVAC System Design | No HVAC Design | Healthcare | Cooling Central | New | building | 10,599 | 8.6% | 0.09 | 10 | \$657,319 | 51% | 0.0 |
| FE-WPP | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | Early | ton | 9,209 | 24% | 0.8 | 15 | \$108,550 | 88% | 0.0 |
| FE-WPP | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | New | ton | 7,528 | 6.7% | 0.2 | 15 | \$12,927 | 88% | 0.0 |
| FE-WPP | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | ROB | ton | 7,528 | 6.7% | 0.2 | 15 | \$12,927 | 88% | 0.0 |
| FE-WPP | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | Early | ton | 13,760 | 23% | 1.1 | 15 | \$140,105 | 88% | 0.0 |
| FE-WPP | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | New | ton | 11,071 | 4.8% | 0.2 | 15 | \$9,336 | 88% | 0.0 |
| FE-WPP | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | ROB | ton | 11,071 | 4.8% | 0.2 | 15 | \$9,336 | 88% | 0.0 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | Early | ton | 112,645 | 26% | 10.1 | 15 | \$105,354 | 88% | 0.2 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | New | ton | 98,146 | 15% | 5.1 | 15 | \$30,530 | 88% | 0.4 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | ROB | ton | 98,146 | 15% | 5.1 | 15 | \$30,530 | 88% | 0.4 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | Early | ton | 168,712 | 23% | 13.4 | 15 | \$154,107 | 88% | 0.2 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | New | ton | 154,983 | 16% | 8.6 | 15 | \$27,646 | 88% | 0.7 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | ROB | ton | 168,712 | 23% | 13.4 | 15 | \$27,646 | 88% | 1.1 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | Early | ton | 280,198 | 23% | 22.0 | 15 | \$302,924 | 88% | 0.2 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | New | ton | 253,600 | 14% | 12.7 | 15 | \$115,432 | 88% | 0.3 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | ROB | ton | 280,198 | 23% | 22.0 | 15 | \$115,432 | 88% | 0.4 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | Early | ton | 336,238 | 23% | 26.4 | 15 | \$350,154 | 88% | 0.2 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | New | ton | 304,319 | 14% | 15.3 | 15 | \$120,406 | 88% | 0.3 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | ROB | ton | 336,238 | 23% | 26.4 | 15 | \$120,406 | 88% | 0.5 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | Early | ton | 74,530 | 29% | 7.6 | 15 | \$83,632 | 88% | 0.2 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | New | ton | 57,872 | 8.9% | 1.8 | 15 | \$40,211 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | ROB | ton | 74,530 | 29% | 7.6 | 15 | \$40,211 | 88% | 0.4 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | Early | ton | 128,061 | 35% | 15.5 | 15 | \$132,173 | 88% | 0.3 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | New | ton | 95,512 | 13% | 4.2 | 15 | \$39,556 | 88% | 0.2 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | ROB | ton | 95,512 | 13% | 4.2 | 15 | \$39,556 | 88% | 0.2 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | Early | ton | 213,808 | 39% | 29.1 | 15 | \$187,029 | 88% | 0.4 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | New | ton | 152,442 | 15% | 7.7 | 15 | \$33,554 | 88% | 0.5 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | ROB | ton | 213,808 | 39% | 29.1 | 15 | \$33,554 | 88% | 2.0 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | Early | ton | 37,413 | 30% | 3.8 | 15 | \$32,398 | 88% | 0.3 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | New | ton | 29,642 | 11% | 1.1 | 15 | \$7,188 | 88% | 0.4 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | ROB | ton | 37,413 | 30% | 3.8 | 15 | \$7,188 | 88% | 1.2 |
| FE-WPP | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Healthcare | Cooling Central | Existing | building | 10,599 | 2.1% | 0.02 | 10 | \$22,450 | 81% | 0.0 |
| FE-WPP | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Healthcare | Cooling Central | New | building | 10,599 | 2.1% | 0.02 | 10 | \$22,450 | 81% | 0.0 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Healthcare | Cooling Central | Existing | building | 10,599 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.3 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Healthcare | Cooling Central | New | building | 10,599 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.5 |
| FE-WPP | Re-Commissioning (Existing Construction) | No Re-Commissioning | Healthcare | Cooling Central | Existing | building | 10,599 | 16% | 0.2 | 5 | \$8,847 | 86% | 0.0 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Healthcare | Cooling Central | Existing | building | 10,599 | 2.6% | 0.03 | 15 | \$5,624 | 26% | 0.0 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Healthcare | Cooling Central | New | building | 10,599 | 0.1% | 0.00 | 15 | \$4,314 | 94% | 0.0 |
| FE-WPP | <65k BTU/hr 14 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Healthcare | Cooling Unitary | Early | ton | 1,986 | 16% | 0.2 | 15 | \$1,545 | 29% | 0.2 |
| FE-WPP | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Healthcare | Cooling Unitary | New | ton | 1,799 | 7.1% | 0.07 | 15 | \$339 | 29% | 0.4 |
| FE-WPP | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Healthcare | Cooling Unitary | ROB | ton | 1,799 | 7.1% | 0.07 | 15 | \$339 | 29% | 0.4 |
| FE-WPP | <65k BTU/hr 15 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Healthcare | Cooling Unitary | Early | ton | 1,986 | 22% | 0.2 | 15 | \$1,821 | 30% | 0.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|--|------------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Healthcare | Cooling Unitary | New | ton | 1,799 | 13% | 0.1 | 15 | \$714 | 30% | 0.3 |
| FE-WPP | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Healthcare | Cooling Unitary | ROB | ton | 1,799 | 13% | 0.1 | 15 | \$714 | 30% | 0.3 |
| FE-WPP | <65k BTU/hr 16 SEER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Healthcare | Cooling Unitary | Early | ton | 1,986 | 26% | 0.3 | 15 | \$2,098 | 31% | 0.2 |
| FE-WPP | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Healthcare | Cooling Unitary | New | ton | 1,799 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.3 |
| FE-WPP | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Healthcare | Cooling Unitary | ROB | ton | 1,799 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.3 |
| FE-WPP | >760k min 10.2 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Healthcare | Cooling Unitary | Early | ton | 50,244 | 3.7% | 1.0 | 15 | \$68,066 | 56% | 0.0 |
| FE-WPP | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Healthcare | Cooling Unitary | New | ton | 50,889 | 4.9% | 1.4 | 15 | \$6,231 | 56% | 0.4 |
| FE-WPP | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Healthcare | Cooling Unitary | ROB | ton | 50,889 | 4.9% | 1.4 | 15 | \$6,231 | 56% | 0.4 |
| FE-WPP | 135-240k min 12 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Healthcare | Cooling Unitary | Early | ton | 12,363 | 18% | 1.2 | 15 | \$18,135 | 79% | 0.1 |
| FE-WPP | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Healthcare | Cooling Unitary | New | ton | 11,246 | 10.0% | 0.6 | 15 | \$1,948 | 79% | 0.6 |
| FE-WPP | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Healthcare | Cooling Unitary | ROB | ton | 11,246 | 10.0% | 0.6 | 15 | \$1,948 | 79% | 0.6 |
| FE-WPP | 240k-760k min 11 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Healthcare | Cooling Unitary | Early | ton | 33,055 | 9.0% | 1.6 | 15 | \$44,809 | 66% | 0.1 |
| FE-WPP | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Healthcare | Cooling Unitary | New | ton | 33,138 | 9.3% | 1.7 | 15 | \$4,813 | 66% | 0.6 |
| FE-WPP | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Healthcare | Cooling Unitary | ROB | ton | 33,138 | 9.3% | 1.7 | 15 | \$4,813 | 66% | 0.6 |
| FE-WPP | 65k-135k BTU/hr 12 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Healthcare | Cooling Unitary | Early | ton | 7,288 | 17% | 0.7 | 15 | \$10,946 | 86% | 0.1 |
| FE-WPP | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Healthcare | Cooling Unitary | New | ton | 6,495 | 6.7% | 0.2 | 15 | \$1,392 | 86% | 0.3 |
| FE-WPP | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Healthcare | Cooling Unitary | ROB | ton | 6,495 | 6.7% | 0.2 | 15 | \$1,392 | 86% | 0.3 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Healthcare | Cooling Unitary | Existing | building | 172,091 | 7.0% | 0.07 | 6 | \$15,042 | 82% | 0.2 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Healthcare | Cooling Unitary | New | building | 172,091 | 7.0% | 0.07 | 6 | \$15,042 | 82% | 0.2 |
| FE-WPP | Adding window shade film | No shade film | Healthcare | Cooling Unitary | Existing | building | 172,091 | 1.3% | 0.4 | 10 | \$2,094 | 12% | 0.5 |
| FE-WPP | Adding window shade film | No shade film | Healthcare | Cooling Unitary | New | building | 172,091 | 1.3% | 0.4 | 10 | \$2,094 | 13% | 0.5 |
| FE-WPP | Adding window shade screen | No shade screen | Healthcare | Cooling Unitary | Existing | building | 172,091 | 1.1% | 0.01 | 10 | \$810 | 12% | 0.8 |
| FE-WPP | Adding window shade screen | No shade screen | Healthcare | Cooling Unitary | New | building | 172,091 | 1.1% | 0.01 | 10 | \$810 | 13% | 0.8 |
| FE-WPP | Automated control system | Manual Controls | Healthcare | Cooling Unitary | Existing | building | 172,091 | 17% | 0.2 | 15 | \$188,399 | 51% | 0.1 |
| FE-WPP | Automated control system | Manual Controls | Healthcare | Cooling Unitary | New | building | 172,091 | 17% | 0.2 | 15 | \$188,399 | 94% | 0.1 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Healthcare | Cooling Unitary | Existing | building | 172,091 | 1.1% | 0.01 | 15 | \$20,566 | 71% | 0.0 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Healthcare | Cooling Unitary | New | building | 172,091 | 0.3% | 0.00 | 15 | \$19,549 | 94% | 0.0 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Healthcare | Cooling Unitary | Existing | building | 172,091 | 1.4% | 0.04 | 15 | \$1,367 | 20% | 0.9 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Healthcare | Cooling Unitary | New | building | 172,091 | 1.4% | 0.04 | 15 | \$1,367 | 10% | 0.9 |
| FE-WPP | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Healthcare | Cooling Unitary | Existing | building | 94,650 | 13% | 0.1 | 1 | \$907 | 73% | 0.7 |
| FE-WPP | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Healthcare | Cooling Unitary | New | building | 94,650 | 13% | 0.1 | 1 | \$907 | 73% | 0.7 |
| FE-WPP | ECM Motors for split systems | Std Shaded Pole Motor | Healthcare | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.7 |
| FE-WPP | ECM Motors for split systems | Std Shaded Pole Motor | Healthcare | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.7 |
| FE-WPP | Facility Commissioning | No Facility Commissioning | Healthcare | Cooling Unitary | New | building | 172,091 | 16% | 0.2 | 10 | \$5,104 | 89% | 1.9 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Healthcare | Cooling Unitary | Existing | building | 172,091 | 7.1% | 0.07 | 15 | \$763,357 | 25% | 0.0 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Healthcare | Cooling Unitary | New | building | 172,091 | 7.1% | 0.07 | 15 | \$763,357 | 35% | 0.0 |
| FE-WPP | Hi Eff HVAC System Design | No HVAC Design | Healthcare | Cooling Unitary | New | building | 172,091 | 8.6% | 0.09 | 10 | \$59,905 | 51% | 0.1 |
| FE-WPP | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Healthcare | Cooling Unitary | Existing | building | 172,091 | 5.0% | 0.05 | 5 | \$225 | 59% | 7.9 |
| FE-WPP | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Healthcare | Cooling Unitary | Existing | building | 172,091 | 0.1% | 0.04 | 5 | \$225 | 51% | 0.2 |
| FE-WPP | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Healthcare | Cooling Unitary | New | building | 172,091 | 0.1% | 0.04 | 5 | \$135 | 51% | 0.3 |
| FE-WPP | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Healthcare | Cooling Unitary | Existing | building | 172,091 | 2.1% | 0.02 | 10 | \$24,127 | 86% | 0.1 |
| FE-WPP | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Healthcare | Cooling Unitary | New | building | 172,091 | 2.1% | 0.02 | 10 | \$24,127 | 86% | 0.1 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) | Healthcare | Cooling Unitary | Existing | building | 172,091 | 2.0% | 0.02 | 11 | \$286 | 49% | 4.7 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Healthcare | Cooling Unitary | New | building | 172,091 | 1.7% | 0.02 | 11 | \$146 | 49% | 7.7 |
| FE-WPP | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Healthcare | Cooling Unitary | Early | unit | 779 | 19% | 0.07 | 15 | \$849 | 85% | 0.2 |
| FE-WPP | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Healthcare | Cooling Unitary | New | unit | 787 | 20% | 0.07 | 15 | \$356 | 85% | 0.4 |
| FE-WPP | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Healthcare | Cooling Unitary | ROB | unit | 787 | 20% | 0.07 | 15 | \$356 | 85% | 0.4 |
| FE-WPP | Re-Commissioning (Existing Construction) | No Re-Commissioning | Healthcare | Cooling Unitary | Existing | building | 172,091 | 16% | 0.2 | 5 | \$8,847 | 86% | 0.6 |
| FE-WPP | Room AC (w/ louvered sides) | Existing efficiency Room AC in Pennsylvania (2000 Federal Standards) | Healthcare | Cooling Unitary | Early | ton | 1,088 | 13% | 0.05 | 9 | \$348 | 82% | 0.2 |
| FE-WPP | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Healthcare | Cooling Unitary | New | ton | 986 | 4.5% | 0.02 | 9 | \$17 | 82% | 1.4 |
| FE-WPP | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Healthcare | Cooling Unitary | ROB | ton | 986 | 4.5% | 0.02 | 9 | \$17 | 82% | 1.4 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Healthcare | Cooling Unitary | Existing | building | 172,091 | 2.6% | 0.03 | 15 | \$5,624 | 26% | 0.4 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Healthcare | Cooling Unitary | New | building | 172,091 | 0.1% | 0.00 | 15 | \$4,314 | 94% | 0.0 |
| FE-WPP | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Healthcare | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 1.0 |
| FE-WPP | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Healthcare | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.3 |
| FE-WPP | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Healthcare | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.3 |
| FE-WPP | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Healthcare | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 0% | 0.2 |
| FE-WPP | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Healthcare | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-WPP | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Healthcare | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-WPP | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Healthcare | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 75% | 0.3 |
| FE-WPP | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Healthcare | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 75% | 0.2 |
| FE-WPP | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Healthcare | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.6 |
| FE-WPP | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Healthcare | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|--|--|------------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Healthcare | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.6 |
| FE-WPP | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Healthcare | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.0 |
| FE-WPP | Photocell Controls (Outdoor) | Lighting w/ No Controls | Healthcare | Ext. Lighting | Existing | building | 3,796 | 28% | 0.3 | 8 | \$5,444 | 88% | 0.1 |
| FE-WPP | Photocell Controls (Outdoor) | Lighting w/ No Controls | Healthcare | Ext. Lighting | New | building | 3,796 | 28% | 0.3 | 8 | \$5,444 | 0% | 0.1 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Healthcare | Heat Pump | Existing | building | 20,090 | 6.9% | 0.07 | 6 | \$15,042 | 82% | 0.0 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Healthcare | Heat Pump | New | building | 20,090 | 6.9% | 0.07 | 6 | \$15,042 | 82% | 0.0 |
| FE-WPP | Adding window shade film | No shade film | Healthcare | Heat Pump | Existing | building | 20,090 | 3.9% | 0.4 | 10 | \$244 | 12% | 2.1 |
| FE-WPP | Adding window shade film | No shade film | Healthcare | Heat Pump | New | building | 20,090 | 3.9% | 0.4 | 10 | \$244 | 12% | 2.1 |
| FE-WPP | Adding window shade screen | No shade screen | Healthcare | Heat Pump | Existing | building | 20,090 | 0.3% | 0.01 | 10 | \$32 | 12% | 0.9 |
| FE-WPP | Adding window shade screen | No shade screen | Healthcare | Heat Pump | New | building | 20,090 | 0.3% | 0.01 | 10 | \$32 | 12% | 0.9 |
| FE-WPP | Automated control system | Manual Controls | Healthcare | Heat Pump | Existing | building | 20,090 | 17% | 0.2 | 15 | \$21,993 | 51% | 0.1 |
| FE-WPP | Automated control system | Manual Controls | Healthcare | Heat Pump | New | building | 20,090 | 17% | 0.2 | 15 | \$21,993 | 94% | 0.1 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Healthcare | Heat Pump | Existing | building | 20,090 | 1.0% | 0.01 | 15 | \$20,566 | 71% | 0.0 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Healthcare | Heat Pump | New | building | 20,090 | 0.3% | 0.00 | 15 | \$19,549 | 94% | 0.0 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Healthcare | Heat Pump | Existing | building | 20,090 | 4.0% | 0.04 | 15 | \$160 | 12% | 2.6 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Healthcare | Heat Pump | New | building | 20,090 | 4.0% | 0.04 | 15 | \$160 | 6% | 2.6 |
| FE-WPP | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Healthcare | Heat Pump | Early | heat pump | 1,774 | 13% | 0.02 | 15 | \$4,070 | 83% | 0.0 |
| FE-WPP | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Healthcare | Heat Pump | New | heat pump | 1,679 | 7.7% | 0.01 | 15 | \$1,097 | 83% | 0.1 |
| FE-WPP | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Healthcare | Heat Pump | ROB | heat pump | 1,679 | 7.7% | 0.01 | 15 | \$1,097 | 83% | 0.1 |
| FE-WPP | Facility Commissioning | No Facility Commissioning | Healthcare | Heat Pump | New | building | 20,090 | 16% | 0.2 | 10 | \$67,587 | 89% | 0.0 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Healthcare | Heat Pump | Existing | building | 20,090 | 7.0% | 0.07 | 15 | \$89,113 | 25% | 0.0 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Healthcare | Heat Pump | New | building | 20,090 | 7.0% | 0.07 | 15 | \$89,113 | 35% | 0.0 |
| FE-WPP | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Healthcare | Heat Pump | Early | heat pump | 18,527 | 18% | 0.3 | 15 | \$91,117 | 19% | 0.0 |
| FE-WPP | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Healthcare | Heat Pump | New | heat pump | 17,741 | 14% | 0.2 | 15 | \$33,927 | 19% | 0.0 |
| FE-WPP | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Healthcare | Heat Pump | ROB | heat pump | 17,741 | 14% | 0.2 | 15 | \$33,927 | 19% | 0.0 |
| FE-WPP | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Healthcare | Heat Pump | Early | heat pump | 18,527 | 18% | 0.3 | 15 | \$58,356 | 19% | 0.0 |
| FE-WPP | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Healthcare | Heat Pump | New | heat pump | 17,741 | 14% | 0.2 | 15 | \$1,167 | 19% | 1.2 |
| FE-WPP | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Healthcare | Heat Pump | ROB | heat pump | 17,741 | 14% | 0.2 | 15 | \$1,167 | 19% | 1.2 |
| FE-WPP | Hi Eff HVAC System Design | No HVAC Design | Healthcare | Heat Pump | New | building | 20,090 | 8.6% | 0.09 | 10 | \$657,319 | 51% | 0.0 |
| FE-WPP | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Healthcare | Heat Pump | Early | heat pump | 4,731 | 17% | 0.07 | 12 | \$4,298 | 81% | 0.1 |
| FE-WPP | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Healthcare | Heat Pump | New | heat pump | 4,477 | 13% | 0.05 | 12 | \$852 | 81% | 0.3 |
| FE-WPP | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Healthcare | Heat Pump | ROB | heat pump | 4,477 | 13% | 0.05 | 12 | \$852 | 81% | 0.3 |
| FE-WPP | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Healthcare | Heat Pump | Existing | building | 20,090 | 5.0% | 0.09 | 5 | \$90 | 51% | 2.5 |
| FE-WPP | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Healthcare | Heat Pump | New | building | 20,090 | 5.0% | 0.09 | 5 | \$90 | 51% | 2.5 |
| FE-WPP | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Healthcare | Heat Pump | Existing | building | 20,090 | 2.1% | 0.02 | 10 | \$21,481 | 81% | 0.0 |
| FE-WPP | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Healthcare | Heat Pump | New | building | 20,090 | 2.1% | 0.02 | 10 | \$21,481 | 81% | 0.0 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Healthcare | Heat Pump | Existing | building | 20,090 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.7 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Healthcare | Heat Pump | New | building | 20,090 | 2.1% | 0.02 | 11 | \$146 | 49% | 1.1 |
| FE-WPP | Re-Commissioning (Existing Construction) | No Re-Commissioning | Healthcare | Heat Pump | Existing | building | 20,090 | 16% | 0.2 | 5 | \$8,847 | 86% | 0.1 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Healthcare | Heat Pump | Existing | building | 20,090 | 2.6% | 0.03 | 15 | \$5,624 | 26% | 0.0 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Healthcare | Heat Pump | New | building | 20,090 | 0.1% | 0.00 | 15 | \$4,314 | 94% | 0.0 |
| FE-WPP | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Healthcare | Heat Pump | Early | heat pump | 7,468 | 32% | 0.2 | 15 | \$35,347 | 28% | 0.0 |
| FE-WPP | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Healthcare | Heat Pump | New | heat pump | 7,022 | 28% | 0.2 | 15 | \$15,739 | 28% | 0.1 |
| FE-WPP | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Healthcare | Heat Pump | ROB | heat pump | 7,022 | 28% | 0.2 | 15 | \$15,739 | 28% | 0.1 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | Early | Fixture | 620 | 9.6% | 0.01 | 13 | \$850 | 39% | 0.0 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Healthcare | High Bay Lighting | Early | Fixture | 619 | 9.5% | 0.01 | 13 | \$850 | 28% | 0.0 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Healthcare | High Bay Lighting | Early | Fixture | 956 | 41% | 0.08 | 13 | \$850 | 36% | 0.3 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | New | Fixture | 471 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Healthcare | High Bay Lighting | New | Fixture | 438 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Healthcare | High Bay Lighting | New | Fixture | 726 | 41% | 0.06 | 13 | \$397 | 36% | 0.5 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 620 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 577 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 956 | 41% | 0.08 | 13 | \$397 | 36% | 0.6 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | Early | Fixture | 1,203 | 19% | 0.05 | 13 | \$851 | 38% | 0.2 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Healthcare | High Bay Lighting | Early | Fixture | 1,218 | 20% | 0.05 | 13 | \$851 | 38% | 0.2 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | Early | Fixture | 3,543 | 73% | 0.5 | 13 | \$851 | 38% | 1.8 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | New | Fixture | 914 | 19% | 0.04 | 13 | \$372 | 38% | 0.3 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | New | Fixture | 2,693 | 73% | 0.4 | 13 | \$383 | 38% | 3.0 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 1,203 | 19% | 0.05 | 13 | \$372 | 38% | 0.4 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 3,543 | 73% | 0.5 | 13 | \$383 | 38% | 4.0 |
| FE-WPP | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | Early | Fixture | 1,203 | 25% | 0.06 | 13 | \$554 | 29% | 0.3 |
| FE-WPP | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Healthcare | High Bay Lighting | Early | Fixture | 1,181 | 23% | 0.06 | 13 | \$554 | 28% | 0.3 |
| FE-WPP | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | Early | Fixture | 3,543 | 74% | 0.6 | 13 | \$554 | 36% | 2.8 |
| FE-WPP | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | New | Fixture | 914 | 25% | 0.05 | 13 | \$75 | 29% | 1.8 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|---|------------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | New | Fixture | 2,693 | 74% | 0.4 | 13 | \$86 | 36% | 14.0 |
| FE-WPP | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 1,203 | 25% | 0.06 | 13 | \$75 | 29% | 2.4 |
| FE-WPP | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 3,543 | 74% | 0.6 | 13 | \$86 | 36% | 18.4 |
| FE-WPP | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Healthcare | High Bay Lighting | Early | Fixture | 314 | 0.2% | 0.00 | 13 | \$835 | 38% | 0.0 |
| FE-WPP | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Healthcare | High Bay Lighting | Early | Fixture | 676 | 54% | 0.08 | 13 | \$835 | 38% | 0.3 |
| FE-WPP | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Healthcare | High Bay Lighting | New | Fixture | 514 | 54% | 0.06 | 13 | \$382 | 38% | 0.4 |
| FE-WPP | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 676 | 54% | 0.08 | 13 | \$382 | 38% | 0.6 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | Early | Fixture | 1,533 | 18% | 0.06 | 13 | \$487 | 25% | 0.3 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Healthcare | High Bay Lighting | Early | Fixture | 1,603 | 22% | 0.07 | 13 | \$487 | 28% | 0.4 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | Early | Fixture | 3,543 | 65% | 0.5 | 13 | \$487 | 36% | 2.8 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | New | Fixture | 1,165 | 18% | 0.05 | 13 | \$16 | 25% | 7.8 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | New | Fixture | 2,693 | 65% | 0.4 | 13 | \$18 | 36% | 56.5 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 1,533 | 18% | 0.06 | 13 | \$16 | 25% | 10.3 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 3,543 | 65% | 0.5 | 13 | \$18 | 36% | 74.4 |
| FE-WPP | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | Early | Fixture | 1,533 | 1.5% | 0.00 | 13 | \$557 | 19% | 0.0 |
| FE-WPP | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Healthcare | High Bay Lighting | Early | Fixture | 1,578 | 4.3% | 0.01 | 13 | \$557 | 19% | 0.1 |
| FE-WPP | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | Early | Fixture | 3,543 | 57% | 0.4 | 13 | \$557 | 19% | 2.2 |
| FE-WPP | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | New | Fixture | 1,165 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| FE-WPP | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | New | Fixture | 2,693 | 57% | 0.3 | 13 | \$88 | 19% | 10.5 |
| FE-WPP | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 1,533 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.2 |
| FE-WPP | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 3,543 | 57% | 0.4 | 13 | \$88 | 19% | 13.8 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Healthcare | High Bay Lighting | Early | Fixture | 651 | 29% | 0.03 | 13 | \$492 | 71% | 0.2 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | Early | Fixture | 544 | 15% | 0.01 | 13 | \$492 | 95% | 0.1 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Healthcare | High Bay Lighting | Early | Fixture | 808 | 43% | 0.05 | 13 | \$492 | 95% | 0.4 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Healthcare | High Bay Lighting | Early | Fixture | 749 | 38% | 0.04 | 13 | \$492 | 95% | 0.3 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | New | Fixture | 414 | 15% | 0.01 | 13 | \$25 | 95% | 1.4 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Healthcare | High Bay Lighting | New | Fixture | 614 | 43% | 0.04 | 13 | \$51 | 95% | 2.8 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 544 | 15% | 0.01 | 13 | \$25 | 95% | 1.8 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 808 | 43% | 0.05 | 13 | \$51 | 95% | 3.7 |
| FE-WPP | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Healthcare | High Bay Lighting | Early | lamp | 107 | 16% | 0.00 | 10 | \$7.7 | 99% | 1.1 |
| FE-WPP | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Healthcare | High Bay Lighting | New | lamp | 64 | 13% | 0.00 | 10 | \$1.6 | 91% | 2.5 |
| FE-WPP | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Healthcare | High Bay Lighting | ROB | lamp | 103 | 13% | 0.00 | 10 | \$1.6 | 91% | 4.0 |
| FE-WPP | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | Early | Fixture | 3,626 | 23% | 0.2 | 13 | \$613 | 5% | 0.8 |
| FE-WPP | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Healthcare | High Bay Lighting | Early | Fixture | 2,849 | 1.6% | 0.01 | 13 | \$613 | 28% | 0.0 |
| FE-WPP | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | Early | Fixture | 7,087 | 60% | 0.9 | 13 | \$613 | 18% | 4.2 |
| FE-WPP | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | New | Fixture | 2,756 | 23% | 0.1 | 13 | \$96 | 5% | 3.9 |
| FE-WPP | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 3,626 | 23% | 0.2 | 13 | \$96 | 5% | 5.1 |
| FE-WPP | Auto Off Time Switch | Lighting w/ No Controls | Healthcare | High Bay Lighting | Existing | building | 7,154 | 24% | 0.2 | 8 | \$1,106 | 13% | 0.6 |
| FE-WPP | Auto Off Time Switch | Lighting w/ No Controls | Healthcare | High Bay Lighting | New | building | 7,154 | 6.9% | 0.07 | 8 | \$1,106 | 0% | 0.2 |
| FE-WPP | Central Lighting Control System | Lighting w/ No Controls | Healthcare | High Bay Lighting | Existing | building | 7,154 | 38% | 0.4 | 8 | \$1,106 | 13% | 0.9 |
| FE-WPP | Central Lighting Control System | Lighting w/ No Controls | Healthcare | High Bay Lighting | New | building | 7,154 | 14% | 0.1 | 8 | \$1,106 | 13% | 0.3 |
| FE-WPP | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Healthcare | High Bay Lighting | New | building | 7,154 | 10% | 0.1 | 15 | \$32,147 | 32% | 0.0 |
| FE-WPP | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Healthcare | High Bay Lighting | New | building | 7,154 | 15% | 0.2 | 15 | \$80,367 | 32% | 0.0 |
| FE-WPP | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Healthcare | High Bay Lighting | New | building | 7,154 | 30% | 0.3 | 15 | \$115,193 | 32% | 0.0 |
| FE-WPP | Indoor Daylight Sensors | Lighting w/ No Controls | Healthcare | High Bay Lighting | Existing | building | 7,154 | 28% | 0.3 | 8 | \$5,444 | 13% | 0.1 |
| FE-WPP | Indoor Daylight Sensors | Lighting w/ No Controls | Healthcare | High Bay Lighting | New | building | 7,154 | 4.0% | 0.04 | 8 | \$5,444 | 0% | 0.0 |
| FE-WPP | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | Early | Fixture | 3,626 | 92% | 0.7 | 13 | \$1,916 | 95% | 1.0 |
| FE-WPP | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | Early | Fixture | 7,087 | 96% | 1.4 | 13 | \$1,916 | 95% | 2.1 |
| FE-WPP | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | New | Fixture | 2,756 | 92% | 0.5 | 13 | \$1,468 | 95% | 1.0 |
| FE-WPP | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | New | Fixture | 5,386 | 96% | 1.1 | 13 | \$1,149 | 95% | 2.7 |
| FE-WPP | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 3,626 | 92% | 0.7 | 13 | \$1,468 | 95% | 1.4 |
| FE-WPP | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 7,087 | 96% | 1.4 | 13 | \$1,149 | 95% | 3.5 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | Early | Fixture | 1,203 | 67% | 0.2 | 13 | \$960 | 95% | 0.5 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Healthcare | High Bay Lighting | Early | Fixture | 3,543 | 89% | 0.7 | 13 | \$960 | 95% | 2.0 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Healthcare | High Bay Lighting | Early | Fixture | 972 | 59% | 0.1 | 13 | \$960 | 95% | 0.4 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | New | Fixture | 914 | 67% | 0.1 | 13 | \$480 | 95% | 0.8 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Healthcare | High Bay Lighting | New | Fixture | 2,693 | 89% | 0.5 | 13 | \$491 | 95% | 2.9 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Healthcare | High Bay Lighting | New | Fixture | 739 | 59% | 0.09 | 13 | \$406 | 95% | 0.6 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 1,203 | 67% | 0.2 | 13 | \$480 | 95% | 1.0 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 3,543 | 89% | 0.7 | 13 | \$491 | 95% | 3.8 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 972 | 59% | 0.1 | 13 | \$406 | 95% | 0.8 |
| FE-WPP | Occupancy Sensor | Lighting w/ No Controls | Healthcare | High Bay Lighting | Existing | building | 7,154 | 24% | 0.2 | 8 | \$1,666 | 11% | 0.4 |
| FE-WPP | Occupancy Sensor | Lighting w/ No Controls | Healthcare | High Bay Lighting | New | building | 7,154 | 6.9% | 0.07 | 8 | \$1,666 | 0% | 0.1 |
| FE-WPP | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Healthcare | High Bay Lighting | Existing | building | 7,154 | 28% | 0.3 | 8 | \$5,444 | 11% | 0.1 |
| FE-WPP | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Healthcare | High Bay Lighting | New | building | 7,154 | 4.0% | 0.04 | 8 | \$5,444 | 0% | 0.0 |
| FE-WPP | Time Clock Control | Lighting w/ No Controls | Healthcare | High Bay Lighting | Existing | building | 7,154 | 28% | 0.3 | 8 | \$1,106 | 13% | 0.7 |
| FE-WPP | Time Clock Control | Lighting w/ No Controls | Healthcare | High Bay Lighting | New | building | 7,154 | 4.0% | 0.04 | 8 | \$1,106 | 0% | 0.1 |
| FE-WPP | Auto Off Time Switch | Lighting w/ No Controls | Healthcare | Lin. Fluor. Lighting | Existing | building | 332,503 | 24% | 0.2 | 8 | \$1,106 | 13% | 21.6 |
| FE-WPP | Auto Off Time Switch | Lighting w/ No Controls | Healthcare | Lin. Fluor. Lighting | New | building | 332,503 | 7.0% | 0.07 | 8 | \$1,106 | 0% | 6.2 |
| FE-WPP | Central Lighting Control System | Lighting w/ No Controls | Healthcare | Lin. Fluor. Lighting | Existing | building | 332,503 | 38% | 0.4 | 8 | \$1,106 | 12% | 34.1 |
| FE-WPP | Central Lighting Control System | Lighting w/ No Controls | Healthcare | Lin. Fluor. Lighting | New | building | 332,503 | 14% | 0.1 | 8 | \$1,106 | 12% | 12.6 |
| FE-WPP | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Healthcare | Lin. Fluor. Lighting | New | building | 332,503 | 10% | 0.1 | 15 | \$32,147 | 32% | 0.5 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|--|------------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Healthcare | Lin. Fluor. Lighting | New | building | 332,503 | 15% | 0.2 | 15 | \$80,367 | 32% | 0.3 |
| FE-WPP | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Healthcare | Lin. Fluor. Lighting | New | building | 332,503 | 30% | 0.3 | 15 | \$115,193 | 32% | 0.4 |
| FE-WPP | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Healthcare | Lin. Fluor. Lighting | Early | Lamp | 215 | 38% | 0.02 | 10 | \$7.3 | 94% | 5.4 |
| FE-WPP | Indoor Daylight Sensors | Lighting w/ No Controls | Healthcare | Lin. Fluor. Lighting | Existing | building | 332,503 | 28% | 0.3 | 8 | \$5,444 | 13% | 5.1 |
| FE-WPP | Indoor Daylight Sensors | Lighting w/ No Controls | Healthcare | Lin. Fluor. Lighting | New | building | 332,503 | 4.1% | 0.04 | 8 | \$5,444 | 0% | 0.7 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | Early | Lamp | 77 | 19% | 0.00 | 15 | \$35 | 94% | 0.3 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 40W T12 Lamp, Magnetic Ballast | Healthcare | Lin. Fluor. Lighting | Early | Lamp | 169 | 63% | 0.02 | 15 | \$35 | 94% | 2.0 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | Early | Lamp | 95 | 34% | 0.01 | 15 | \$35 | 94% | 0.6 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | Early | Lamp | 92 | 32% | 0.01 | 15 | \$35 | 94% | 0.6 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | New | Lamp | 59 | 19% | 0.00 | 15 | \$28 | 94% | 0.3 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | New | Lamp | 70 | 32% | 0.00 | 15 | \$29 | 94% | 0.5 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | New | Lamp | 72 | 34% | 0.01 | 15 | \$22 | 94% | 0.8 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | New | Lamp | 70 | 32% | 0.00 | 15 | \$29 | 94% | 0.5 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | ROB | Lamp | 77 | 19% | 0.00 | 15 | \$28 | 94% | 0.4 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | ROB | Lamp | 92 | 32% | 0.01 | 15 | \$29 | 94% | 0.7 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | ROB | Lamp | 95 | 34% | 0.01 | 15 | \$22 | 94% | 1.0 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | ROB | Lamp | 92 | 32% | 0.01 | 15 | \$29 | 94% | 0.7 |
| FE-WPP | Occupancy Sensor | Lighting w/ No Controls | Healthcare | Lin. Fluor. Lighting | Existing | building | 332,503 | 24% | 0.2 | 8 | \$1,666 | 12% | 14.3 |
| FE-WPP | Occupancy Sensor | Lighting w/ No Controls | Healthcare | Lin. Fluor. Lighting | New | building | 332,503 | 7.0% | 0.07 | 8 | \$1,666 | 0% | 4.2 |
| FE-WPP | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Healthcare | Lin. Fluor. Lighting | Existing | building | 332,503 | 28% | 0.3 | 8 | \$5,444 | 11% | 5.1 |
| FE-WPP | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Healthcare | Lin. Fluor. Lighting | New | building | 332,503 | 4.1% | 0.04 | 8 | \$5,444 | 0% | 0.7 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 40W T12 w/ Magnetic Ballast | Healthcare | Lin. Fluor. Lighting | Early | Lamp | 215 | 54% | 0.02 | 10 | \$9.1 | 94% | 6.2 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | Early | Lamp | 138 | 28% | 0.01 | 10 | \$9.1 | 24% | 2.1 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | Early | Lamp | 133 | 26% | 0.01 | 10 | \$9.1 | 94% | 1.8 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | New | Lamp | 101 | 26% | 0.01 | 10 | \$2.5 | 94% | 5.0 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | New | Lamp | 101 | 26% | 0.01 | 10 | \$2.5 | 94% | 5.0 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | New | Lamp | 105 | 28% | 0.01 | 10 | \$2.5 | 24% | 5.6 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | New | Lamp | 101 | 26% | 0.01 | 10 | \$2.5 | 94% | 5.0 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | ROB | Lamp | 133 | 26% | 0.01 | 10 | \$2.5 | 94% | 6.6 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | ROB | Lamp | 133 | 26% | 0.01 | 10 | \$2.5 | 94% | 6.6 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | ROB | Lamp | 138 | 28% | 0.01 | 10 | \$2.5 | 24% | 7.4 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | ROB | Lamp | 133 | 26% | 0.01 | 10 | \$2.5 | 94% | 6.6 |
| FE-WPP | T8 Lamp (any length) Electronic Ballast | Standard T12 lamp (any length) | Healthcare | Lin. Fluor. Lighting | Early | Lamp | 253 | 42% | 0.02 | 10 | \$14 | 94% | 3.7 |
| FE-WPP | Time Clock Control | Lighting w/ No Controls | Healthcare | Lin. Fluor. Lighting | Existing | building | 332,503 | 28% | 0.3 | 8 | \$1,106 | 14% | 25.2 |
| FE-WPP | Time Clock Control | Lighting w/ No Controls | Healthcare | Lin. Fluor. Lighting | New | building | 332,503 | 4.1% | 0.04 | 8 | \$1,106 | 0% | 3.7 |
| FE-WPP | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | Early | motor | 3,993 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| FE-WPP | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | Early | motor | 3,993 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| FE-WPP | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | Early | motor | 3,993 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| FE-WPP | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | Early | motor | 3,993 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| FE-WPP | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | New | motor | 3,871 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| FE-WPP | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | New | motor | 3,871 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| FE-WPP | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | New | motor | 3,871 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| FE-WPP | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | New | motor | 3,871 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| FE-WPP | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | ROB | motor | 3,871 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| FE-WPP | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | ROB | motor | 3,871 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| FE-WPP | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | ROB | motor | 3,871 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| FE-WPP | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | ROB | motor | 3,871 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| FE-WPP | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | Early | motor | 5,888 | 3.1% | 0.02 | 15 | \$402 | 76% | 0.3 |
| FE-WPP | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | Early | motor | 5,888 | 3.1% | 0.02 | 15 | \$402 | 76% | 0.3 |
| FE-WPP | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | Early | motor | 5,888 | 3.1% | 0.02 | 15 | \$402 | 76% | 0.3 |
| FE-WPP | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | Early | motor | 5,888 | 3.1% | 0.02 | 15 | \$402 | 76% | 0.3 |
| FE-WPP | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | New | motor | 5,739 | 0.5% | 0.00 | 15 | \$60 | 76% | 0.3 |
| FE-WPP | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | New | motor | 5,739 | 0.5% | 0.00 | 15 | \$60 | 76% | 0.3 |
| FE-WPP | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | New | motor | 5,739 | 0.5% | 0.00 | 15 | \$60 | 76% | 0.3 |
| FE-WPP | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | New | motor | 5,739 | 0.5% | 0.00 | 15 | \$60 | 76% | 0.3 |
| FE-WPP | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | ROB | motor | 5,739 | 0.5% | 0.00 | 15 | \$60 | 76% | 0.3 |
| FE-WPP | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | ROB | motor | 5,739 | 0.5% | 0.00 | 15 | \$60 | 76% | 0.3 |
| FE-WPP | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | ROB | motor | 5,739 | 0.5% | 0.00 | 15 | \$60 | 76% | 0.3 |
| FE-WPP | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | ROB | motor | 5,739 | 0.5% | 0.00 | 15 | \$60 | 76% | 0.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|---|------------|---------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | New | motor | 261,298 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.4 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | New | motor | 261,298 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.4 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | New | motor | 261,298 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.3 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | New | motor | 261,298 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.4 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | New | motor | 261,298 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.3 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | ROB | motor | 261,298 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.4 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | ROB | motor | 261,298 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.4 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | ROB | motor | 261,298 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.3 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | ROB | motor | 261,298 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.4 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | ROB | motor | 261,298 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.3 |
| FE-WPP | ASD HVAC Fan | Std. HVAC Fan | Healthcare | Motors | New | measure | 106,370 | 9.1% | 1.1 | 15 | \$38,470 | 85% | 0.1 |
| FE-WPP | ASD HVAC Fan | Std. HVAC Fan | Healthcare | Motors | ROB | measure | 106,370 | 9.1% | 1.1 | 15 | \$38,470 | 85% | 0.1 |
| FE-WPP | CO sensors for parking garage exhaust fans | No CO Sensors | Healthcare | Motors | Existing | building | 19,924 | 19% | 0.2 | 8 | \$1,046 | 4% | 1.1 |
| FE-WPP | CO sensors for parking garage exhaust fans | No CO Sensors | Healthcare | Motors | New | building | 19,924 | 19% | 0.2 | 8 | \$1,046 | 4% | 1.1 |
| FE-WPP | demand controlled ventilation | Absence of Demand Controlled Ventilation | Healthcare | Motors | Early | measure | 106,370 | 5.9% | 0.7 | 10 | \$61,325 | 92% | 0.0 |
| FE-WPP | demand controlled ventilation | Office building thermostat | Healthcare | Motors | New | measure | 106,370 | 5.9% | 0.7 | 10 | \$45,787 | 92% | 0.1 |
| FE-WPP | demand controlled ventilation | Office building thermostat | Healthcare | Motors | ROB | measure | 106,370 | 5.9% | 0.7 | 10 | \$45,787 | 92% | 0.1 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Healthcare | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 20.2 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Healthcare | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 20.7 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Healthcare | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 20.9 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Healthcare | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 21.5 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Healthcare | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 22.0 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Healthcare | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 20.2 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Healthcare | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 20.7 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Healthcare | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 21.2 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Healthcare | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 21.7 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Healthcare | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 21.8 |
| FE-WPP | Escalator Motor Controller | Constant power control | Healthcare | Motors | New | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 67% | 5.6 |
| FE-WPP | Escalator Motor Controller | Constant power control | Healthcare | Motors | ROB | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 67% | 5.6 |
| FE-WPP | Fan Motor - correct sizing | Incorrect Fan Motor Sizing | Healthcare | Motors | ROB | measure | 106,370 | 2.9% | 0.4 | 15 | \$50 | 92% | 35.1 |
| FE-WPP | Variable Speed Drive Control, 15HP | Existing Motors w/out VSD Drive | Healthcare | Motors | Early | motor | 54,557 | 70% | 5.6 | 15 | \$731 | 86% | 32.2 |
| FE-WPP | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Healthcare | Motors | New | motor | 53,384 | 72% | 5.6 | 15 | \$731 | 86% | 32.2 |
| FE-WPP | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Healthcare | Motors | ROB | motor | 53,384 | 71% | 5.6 | 15 | \$731 | 86% | 32.2 |
| FE-WPP | Variable Speed Drive Control, 40HP | Existing Motors w/out VSD Drive | Healthcare | Motors | Early | motor | 142,356 | 71% | 14.8 | 15 | \$4,666 | 86% | 13.3 |
| FE-WPP | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Healthcare | Motors | New | motor | 140,692 | 71% | 14.8 | 15 | \$4,666 | 86% | 13.3 |
| FE-WPP | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Healthcare | Motors | ROB | motor | 140,692 | 71% | 14.8 | 15 | \$4,666 | 86% | 13.3 |
| FE-WPP | Variable Speed Drive Control, 5HP | Existing Motors w/out VFD Drive | Healthcare | Motors | Early | motor | 18,913 | 72% | 2.0 | 15 | \$2,243 | 86% | 3.7 |
| FE-WPP | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Healthcare | Motors | New | motor | 18,490 | 72% | 1.9 | 15 | \$2,243 | 86% | 3.6 |
| FE-WPP | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Healthcare | Motors | ROB | motor | 18,490 | 72% | 1.9 | 15 | \$2,243 | 86% | 3.6 |
| FE-WPP | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Healthcare | Motors | Early | motor | 141,406 | 0.8% | 0.1 | 15 | \$268 | 40% | 2.5 |
| FE-WPP | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Healthcare | Motors | New | motor | 141,406 | 0.8% | 0.1 | 15 | \$268 | 40% | 2.5 |
| FE-WPP | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Healthcare | Motors | ROB | motor | 141,406 | 0.8% | 0.1 | 15 | \$268 | 40% | 2.5 |
| FE-WPP | VFD on Chilled Water Pump | Motor w/out VFD Drive | Healthcare | Motors | Early | motor | 45,158 | 55% | 2.7 | 15 | \$2,903 | 86% | 4.9 |
| FE-WPP | VFD on Chilled Water Pump | Motor w/out VFD Drive | Healthcare | Motors | New | motor | 44,313 | 55% | 2.7 | 15 | \$2,843 | 86% | 4.9 |
| FE-WPP | VFD on Chilled Water Pump | Motor w/out VFD Drive | Healthcare | Motors | ROB | motor | 44,313 | 55% | 2.7 | 15 | \$2,843 | 86% | 4.9 |
| FE-WPP | VFD on Condenser Water Pump | Motor w/out VFD Drive | Healthcare | Motors | Early | motor | 38,955 | 32% | 3.2 | 15 | \$2,903 | 86% | 3.0 |
| FE-WPP | VFD on Condenser Water Pump | Motor w/out VFD Drive | Healthcare | Motors | New | motor | 38,226 | 33% | 3.1 | 15 | \$2,843 | 86% | 3.1 |
| FE-WPP | VFD on Condenser Water Pump | Motor w/out VFD Drive | Healthcare | Motors | ROB | motor | 38,226 | 33% | 3.1 | 15 | \$2,843 | 86% | 3.1 |
| FE-WPP | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Healthcare | Motors | Early | motor | 67,054 | 56% | 0.00 | 15 | \$2,903 | 86% | 6.1 |
| FE-WPP | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Healthcare | Motors | New | motor | 65,800 | 57% | 0.00 | 15 | \$2,843 | 86% | 6.3 |
| FE-WPP | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Healthcare | Motors | ROB | motor | 65,800 | 57% | 0.00 | 15 | \$2,843 | 86% | 6.3 |
| FE-WPP | VFD on HVAC Fan | Motor w/out VFD | Healthcare | Motors | Early | motor | 48,837 | 70% | 3.4 | 15 | \$2,903 | 86% | 6.8 |
| FE-WPP | VFD on HVAC Fan | Motor w/out VFD | Healthcare | Motors | New | motor | 47,923 | 71% | 3.3 | 15 | \$2,843 | 86% | 6.9 |
| FE-WPP | VFD on HVAC Fan | Motor w/out VFD | Healthcare | Motors | ROB | motor | 47,923 | 72% | 3.3 | 15 | \$2,843 | 86% | 6.9 |
| FE-WPP | Elevators | Std. Eff Elevator | Healthcare | Other | ROB | measure | 89,016 | 2.0% | 0.7 | 15 | \$2,110 | 81% | 0.7 |
| FE-WPP | Variable Speed Drives on Process Equipment | Constant speed control | Healthcare | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 10.1 |
| FE-WPP | Variable Speed Drives on Process Equipment | Constant speed control | Healthcare | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 10.1 |
| FE-WPP | Auto Off Time Switch | Lighting w/ No Controls | Healthcare | Other Int. Lighting | Existing | building | 52,981 | 24% | 0.2 | 8 | \$1,106 | 13% | 3.5 |
| FE-WPP | Auto Off Time Switch | Lighting w/ No Controls | Healthcare | Other Int. Lighting | New | building | 52,981 | 7.0% | 0.07 | 8 | \$1,106 | 0% | 1.0 |
| FE-WPP | Central Lighting Control System | Lighting w/ No Controls | Healthcare | Other Int. Lighting | Existing | building | 52,981 | 38% | 0.4 | 8 | \$1,106 | 13% | 5.6 |
| FE-WPP | Central Lighting Control System | Lighting w/ No Controls | Healthcare | Other Int. Lighting | New | building | 52,981 | 14% | 0.1 | 8 | \$1,106 | 13% | 2.1 |
| FE-WPP | Cold Cathode Screw-In Bulb | 40W Incandescent Bulb | Healthcare | Other Int. Lighting | Early | lamp | 178 | 87% | 0.03 | 8 | \$30 | 14% | 2.1 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Healthcare | Other Int. Lighting | Early | lamp | 128 | 81% | 0.02 | 8 | \$23 | 11% | 1.4 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Healthcare | Other Int. Lighting | New | lamp | 97 | 81% | 0.02 | 8 | \$21 | 14% | 1.5 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Healthcare | Other Int. Lighting | New | lamp | 97 | 81% | 0.02 | 8 | \$23 | 14% | 1.4 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Healthcare | Other Int. Lighting | New | lamp | 97 | 81% | 0.02 | 8 | \$22 | 11% | 1.5 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Healthcare | Other Int. Lighting | ROB | lamp | 128 | 81% | 0.02 | 8 | \$21 | 14% | 2.0 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Healthcare | Other Int. Lighting | ROB | lamp | 128 | 81% | 0.02 | 8 | \$23 | 14% | 1.9 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Healthcare | Other Int. Lighting | ROB | lamp | 128 | 81% | 0.02 | 8 | \$22 | 11% | 1.9 |
| FE-WPP | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Healthcare | Other Int. Lighting | Early | lamp | 178 | 75% | 0.03 | 3 | \$73 | 24% | 0.3 |
| FE-WPP | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Healthcare | Other Int. Lighting | New | fixture | 194 | 65% | 0.03 | 13 | \$29 | 28% | 2.6 |
| FE-WPP | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Healthcare | Other Int. Lighting | New | lamp | 97 | 65% | 0.01 | 3 | \$29 | 28% | 0.4 |
| FE-WPP | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Healthcare | Other Int. Lighting | ROB | fixture | 255 | 65% | 0.03 | 13 | \$29 | 24% | 3.5 |
| FE-WPP | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Healthcare | Other Int. Lighting | ROB | lamp | 128 | 65% | 0.02 | 3 | \$29 | 24% | 0.5 |
| FE-WPP | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Healthcare | Other Int. Lighting | Early | lamp | 178 | 75% | 0.03 | 3 | \$3.2 | 24% | 7.5 |
| FE-WPP | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Healthcare | Other Int. Lighting | New | lamp | 97 | 65% | 0.01 | 3 | \$1.8 | 24% | 6.3 |
| FE-WPP | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Healthcare | Other Int. Lighting | ROB | lamp | 128 | 65% | 0.02 | 3 | \$1.8 | 24% | 8.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|---|------------|---------------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Healthcare | Other Int. Lighting | ROB | lamp | 128 | 65% | 0.02 | 3 | \$1.8 | 24% | 8.3 |
| FE-WPP | Exit Sign Retrofit: CFL replacing Incandescent | One 23W Single Sided Incandescent Exit Sign | Healthcare | Other Int. Lighting | Early | exit sign | 138 | 42% | 0.01 | 15 | \$48 | 22% | 0.7 |
| FE-WPP | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Healthcare | Other Int. Lighting | New | building | 52,981 | 10% | 0.1 | 15 | \$32,147 | 32% | 0.1 |
| FE-WPP | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Healthcare | Other Int. Lighting | New | building | 52,981 | 15% | 0.2 | 15 | \$80,367 | 32% | 0.1 |
| FE-WPP | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Healthcare | Other Int. Lighting | New | building | 52,981 | 30% | 0.3 | 15 | \$115,193 | 32% | 0.1 |
| FE-WPP | Indoor Daylight Sensors | Lighting w/ No Controls | Healthcare | Other Int. Lighting | Existing | building | 52,981 | 28% | 0.3 | 8 | \$5,444 | 13% | 0.8 |
| FE-WPP | Indoor Daylight Sensors | Lighting w/ No Controls | Healthcare | Other Int. Lighting | New | building | 52,981 | 4.1% | 0.04 | 8 | \$5,444 | 0% | 0.1 |
| FE-WPP | LED Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Healthcare | Other Int. Lighting | Early | sign | 153 | 87% | 0.02 | 15 | \$48 | 16% | 1.7 |
| FE-WPP | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Healthcare | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 1.8 |
| FE-WPP | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Healthcare | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 1.8 |
| FE-WPP | LED Task Lighting/Screw-In | 1 15W CFL bulb | Healthcare | Other Int. Lighting | Early | lamp | 37 | 33% | 0.00 | 10 | \$9.6 | 24% | 0.6 |
| FE-WPP | LED Task Lighting/Screw-In | 1 60W Incandescent Bulb | Healthcare | Other Int. Lighting | Early | lamp | 150 | 83% | 0.03 | 10 | \$9.6 | 24% | 6.5 |
| FE-WPP | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Healthcare | Other Int. Lighting | New | lamp | 82 | 77% | 0.01 | 10 | \$7.9 | 24% | 3.9 |
| FE-WPP | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Healthcare | Other Int. Lighting | New | lamp | 82 | 77% | 0.01 | 10 | \$7.9 | 24% | 3.9 |
| FE-WPP | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Healthcare | Other Int. Lighting | ROB | lamp | 107 | 77% | 0.02 | 10 | \$7.9 | 24% | 5.2 |
| FE-WPP | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Healthcare | Other Int. Lighting | ROB | lamp | 107 | 77% | 0.02 | 10 | \$7.9 | 24% | 5.2 |
| FE-WPP | Occupancy Sensor | Lighting w/ No Controls | Healthcare | Other Int. Lighting | Existing | building | 52,981 | 24% | 0.2 | 8 | \$1,666 | 11% | 2.4 |
| FE-WPP | Occupancy Sensor | Lighting w/ No Controls | Healthcare | Other Int. Lighting | New | building | 52,981 | 7.0% | 0.07 | 8 | \$1,666 | 0% | 0.7 |
| FE-WPP | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Healthcare | Other Int. Lighting | Existing | building | 52,981 | 28% | 0.3 | 8 | \$5,444 | 11% | 0.8 |
| FE-WPP | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Healthcare | Other Int. Lighting | New | building | 52,981 | 4.1% | 0.04 | 8 | \$5,444 | 0% | 0.1 |
| FE-WPP | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Healthcare | Other Int. Lighting | Early | exit sign | 138 | 100% | 0.02 | 15 | \$173 | 26% | 0.5 |
| FE-WPP | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Healthcare | Other Int. Lighting | New | exit sign | 80 | 100% | 0.01 | 15 | \$148 | 31% | 0.3 |
| FE-WPP | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Healthcare | Other Int. Lighting | ROB | exit sign | 80 | 100% | 0.01 | 15 | \$148 | 26% | 0.3 |
| FE-WPP | Time Clock Control | Lighting w/ No Controls | Healthcare | Other Int. Lighting | Existing | building | 52,981 | 28% | 0.3 | 8 | \$1,106 | 13% | 4.1 |
| FE-WPP | Time Clock Control | Lighting w/ No Controls | Healthcare | Other Int. Lighting | New | building | 52,981 | 4.1% | 0.04 | 8 | \$1,106 | 0% | 0.6 |
| FE-WPP | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Healthcare | Plug Load | Existing | building | 6,419 | 46% | 0.5 | 5 | \$189 | 4% | 4.0 |
| FE-WPP | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Healthcare | Plug Load | New | building | 6,419 | 46% | 0.5 | 5 | \$189 | 4% | 4.0 |
| FE-WPP | Data Center - Server/Storage Consolidation | No Consolidation | Healthcare | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-WPP | Data Center - Server/Storage Consolidation | No Consolidation | Healthcare | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-WPP | Data Center - Server/Storage Virtualization | No Virtualization | Healthcare | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-WPP | Data Center - Server/Storage Virtualization | No Virtualization | Healthcare | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-WPP | Energy Star - Scanners | Std Scanner | Healthcare | Plug Load | New | measure | 68 | 3.9% | 0.04 | 4 | \$777 | 7% | 0.0 |
| FE-WPP | Energy Star - Scanners | Std Scanner | Healthcare | Plug Load | ROB | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| FE-WPP | Energy Star Battery Charging System (for small cordless products) | Std. Battery Charging System | Healthcare | Plug Load | ROB | measure | 593 | 2.3% | 4.8 | 5 | \$65 | 4% | 27.5 |
| FE-WPP | Energy Star Dishwasher | Existing Dishwasher units | Healthcare | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,580 | 6% | 1.0 |
| FE-WPP | Energy Star Dishwasher | Standard Dishwasher unit | Healthcare | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 6% | 3.1 |
| FE-WPP | Energy Star Dishwasher | Standard Dishwasher unit | Healthcare | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 6% | 3.1 |
| FE-WPP | Energy Star External Power Adapter | Std. Power Adapter | Healthcare | Plug Load | New | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| FE-WPP | Energy Star External Power Adapter | Std. Power Adapter | Healthcare | Plug Load | ROB | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| FE-WPP | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Healthcare | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 17% | 0.2 |
| FE-WPP | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Healthcare | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 1.9 |
| FE-WPP | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Healthcare | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 1.9 |
| FE-WPP | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Healthcare | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 9% | 0.8 |
| FE-WPP | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Healthcare | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.6 |
| FE-WPP | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Healthcare | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.6 |
| FE-WPP | ENERGY STAR® Copiers | 10% Less Efficient Copier | Healthcare | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 80% | 0.0 |
| FE-WPP | ENERGY STAR® Copiers | One Conventional Copier | Healthcare | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 80% | 0.0 |
| FE-WPP | ENERGY STAR® Copiers | One Conventional Copier | Healthcare | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 80% | 0.0 |
| FE-WPP | ENERGY STAR® desktop | Standard computer | Healthcare | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 69% | 0.1 |
| FE-WPP | ENERGY STAR® desktop | Standard computer | Healthcare | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.3 |
| FE-WPP | ENERGY STAR® desktop | Standard computer | Healthcare | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.3 |
| FE-WPP | ENERGY STAR® Fax | 10% Less Efficient Fax | Healthcare | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 15% | 0.0 |
| FE-WPP | ENERGY STAR® Fax | One Conventional Fax | Healthcare | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| FE-WPP | ENERGY STAR® Fax | One Conventional Fax | Healthcare | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| FE-WPP | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Healthcare | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 70% | 0.0 |
| FE-WPP | ENERGY STAR® Monitors | One Conventional Monitor | Healthcare | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| FE-WPP | ENERGY STAR® Monitors | One Conventional Monitor | Healthcare | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| FE-WPP | ENERGY STAR® Printers | 10% Less Efficient Printer | Healthcare | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 44% | 0.0 |
| FE-WPP | ENERGY STAR® Printers | One Conventional Printer | Healthcare | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| FE-WPP | ENERGY STAR® Printers | One Conventional Printer | Healthcare | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| FE-WPP | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Healthcare | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 43% | 0.1 |
| FE-WPP | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Healthcare | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.7 |
| FE-WPP | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Healthcare | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.7 |
| FE-WPP | ENERGY STAR® Televisions | 10% Less Efficient Television | Healthcare | Plug Load | Early | Unit | 230 | 38% | 0.02 | 6 | \$672 | 40% | 0.0 |
| FE-WPP | ENERGY STAR® Televisions | One Conventional Television | Healthcare | Plug Load | New | Unit | 209 | 32% | 0.01 | 6 | \$206 | 40% | 0.1 |
| FE-WPP | ENERGY STAR® Televisions | One Conventional Television | Healthcare | Plug Load | ROB | Unit | 209 | 32% | 0.01 | 6 | \$206 | 40% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|--|------------|---------------|----------|-------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Healthcare | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 24% | 0.3 |
| FE-WPP | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Healthcare | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.6 |
| FE-WPP | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Healthcare | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.6 |
| FE-WPP | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Healthcare | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 73% | 0.2 |
| FE-WPP | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Healthcare | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 73% | 0.2 |
| FE-WPP | Network PC Power Management | No PC Power Management | Healthcare | Plug Load | Existing | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 56.6 |
| FE-WPP | Network PC Power Management | No PC Power Management | Healthcare | Plug Load | New | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 56.6 |
| FE-WPP | Smart Strip Plug Outlets | Standard plug strip/outlet | Healthcare | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.3 |
| FE-WPP | Smart Strip Plug Outlets | Standard plug strip/outlet | Healthcare | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.3 |
| FE-WPP | Smart Strip Plug Outlets | Standard plug strip/outlet | Healthcare | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-WPP | Smart Strip Plug Outlets | Standard plug strip/outlet | Healthcare | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-WPP | Smart Strip Plug Outlets | Standard plug strip/outlet | Healthcare | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-WPP | Smart Strip Plug Outlets | Standard plug strip/outlet | Healthcare | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-WPP | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Healthcare | Plug Load | Existing | building | 6,419 | 46% | 0.5 | 5 | \$180 | 3% | 4.2 |
| FE-WPP | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Healthcare | Plug Load | New | building | 6,419 | 46% | 0.5 | 5 | \$180 | 3% | 4.2 |
| FE-WPP | Air curtain technology | Strip plastic curtain | Healthcare | Refrigeration | New | building | 2,037 | 6.8% | 0.07 | 8 | \$1,742 | 35% | 0.0 |
| FE-WPP | Air curtain technology | Strip plastic curtain | Healthcare | Refrigeration | New | building | 22,663 | 6.8% | 0.07 | 8 | \$1,678 | 35% | 0.3 |
| FE-WPP | Auto Closer on Refrigerator Door | Door w/out Autocloser | Healthcare | Refrigeration | Existing | building | 2,037 | 11% | 0.1 | 8 | \$749 | 40% | 0.2 |
| FE-WPP | Auto Closer on Refrigerator Door | Door w/out Autocloser | Healthcare | Refrigeration | Existing | building | 22,663 | 6.7% | 0.07 | 8 | \$833 | 40% | 0.6 |
| FE-WPP | Auto Closer on Refrigerator Door | Door w/out Autocloser | Healthcare | Refrigeration | New | building | 2,037 | 11% | 0.1 | 8 | \$749 | 40% | 0.2 |
| FE-WPP | Auto Closer on Refrigerator Door | Door w/out Autocloser | Healthcare | Refrigeration | New | building | 22,663 | 6.7% | 0.07 | 8 | \$833 | 40% | 0.6 |
| FE-WPP | Door Gasket- Freezer | Door w/out Gasket | Healthcare | Refrigeration | Existing | building | 2,037 | 5.8% | 0.06 | 4 | \$77 | 29% | 0.5 |
| FE-WPP | Door Gasket- Freezer | Door w/out Gasket | Healthcare | Refrigeration | New | building | 2,037 | 5.8% | 0.06 | 4 | \$77 | 29% | 0.5 |
| FE-WPP | Door Gasket- Refrigerator | Door w/out Gasket | Healthcare | Refrigeration | Existing | building | 22,663 | 2.1% | 0.02 | 4 | \$115 | 45% | 0.7 |
| FE-WPP | Door Gasket- Refrigerator | Door w/out Gasket | Healthcare | Refrigeration | New | building | 22,663 | 2.1% | 0.02 | 4 | \$115 | 45% | 0.7 |
| FE-WPP | Economizer for Walk-in Coolers | No Economizer | Healthcare | Refrigeration | Early | measure | 25,239 | 6.6% | 0.2 | 10 | \$293 | 72% | 2.4 |
| FE-WPP | Economizer for Walk-in Coolers | No Economizer | Healthcare | Refrigeration | Early | measure | 25,239 | 6.6% | 0.2 | 10 | \$293 | 72% | 2.4 |
| FE-WPP | Economizer for Walk-in Coolers | No Economizer | Healthcare | Refrigeration | Early | measure | 25,239 | 6.6% | 0.2 | 10 | \$293 | 72% | 2.4 |
| FE-WPP | Economizer for Walk-in Coolers | No Economizer | Healthcare | Refrigeration | New | measure | 25,239 | 6.6% | 0.2 | 10 | \$35 | 72% | 20.8 |
| FE-WPP | Economizer for Walk-in Coolers | No Economizer | Healthcare | Refrigeration | New | measure | 25,239 | 6.6% | 0.2 | 10 | \$35 | 72% | 20.8 |
| FE-WPP | Economizer for Walk-in Coolers | No Economizer | Healthcare | Refrigeration | New | measure | 25,239 | 6.6% | 0.2 | 10 | \$35 | 72% | 20.8 |
| FE-WPP | Economizer for Walk-in Coolers | No Economizer | Healthcare | Refrigeration | ROB | measure | 25,239 | 6.6% | 0.2 | 10 | \$35 | 72% | 20.8 |
| FE-WPP | Economizer for Walk-in Coolers | No Economizer | Healthcare | Refrigeration | ROB | measure | 25,239 | 6.6% | 0.2 | 10 | \$35 | 72% | 20.8 |
| FE-WPP | Economizer for Walk-in Coolers | No Economizer | Healthcare | Refrigeration | ROB | measure | 25,239 | 6.6% | 0.2 | 10 | \$35 | 72% | 20.8 |
| FE-WPP | eCube | Refrigeration unit w/out eCube | Healthcare | Refrigeration | Existing | building | 22,663 | 15% | 0.2 | 15 | \$443 | 57% | 3.9 |
| FE-WPP | eCube | Refrigeration unit w/out eCube | Healthcare | Refrigeration | New | building | 22,663 | 15% | 0.2 | 15 | \$443 | 57% | 3.9 |
| FE-WPP | Efficient compressor motor | Base Refrigeration System - Grocery | Healthcare | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| FE-WPP | Efficient compressor motor | Base Refrigeration System - Grocery | Healthcare | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| FE-WPP | Efficient compressor motor | Base Refrigeration System - Grocery | Healthcare | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| FE-WPP | Efficient compressor motor | Base Refrigeration System - Grocery | Healthcare | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| FE-WPP | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Healthcare | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.5 |
| FE-WPP | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Healthcare | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| FE-WPP | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Healthcare | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| FE-WPP | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Healthcare | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.3 |
| FE-WPP | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Healthcare | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.7 |
| FE-WPP | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Healthcare | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.7 |
| FE-WPP | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Healthcare | Refrigeration | Existing | building | 22,663 | 0.7% | 0.01 | 10 | \$369 | 77% | 0.2 |
| FE-WPP | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Healthcare | Refrigeration | New | building | 22,663 | 0.7% | 0.01 | 10 | \$369 | 77% | 0.2 |
| FE-WPP | Floating head pressure controller | System w/out FHPC | Healthcare | Refrigeration | Existing | building | 2,037 | 12% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-WPP | Floating head pressure controller | System w/out FHPC | Healthcare | Refrigeration | Existing | building | 22,663 | 0.4% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| FE-WPP | Floating head pressure controller | System w/out FHPC | Healthcare | Refrigeration | New | building | 2,037 | 12% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-WPP | Floating head pressure controller | System w/out FHPC | Healthcare | Refrigeration | New | building | 22,663 | 0.4% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| FE-WPP | High Efficiency Commercial Freezer | Std. Commercial Freezer | Healthcare | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 84% | 0.3 |
| FE-WPP | High Efficiency Commercial Freezer | Std. Commercial Freezer | Healthcare | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 84% | 3.6 |
| FE-WPP | High Efficiency Commercial Freezer | Std. Commercial Freezer | Healthcare | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 84% | 3.6 |
| FE-WPP | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Healthcare | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 21% | 0.1 |
| FE-WPP | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Healthcare | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 21% | 0.8 |
| FE-WPP | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Healthcare | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 21% | 0.8 |
| FE-WPP | High Efficiency Ice Maker | Existing Standard Efficiency Ice Maker in Pennsylvania | Healthcare | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 69% | 0.1 |
| FE-WPP | High Efficiency Ice Maker | Standard code minimum Ice Maker | Healthcare | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 69% | 0.2 |
| FE-WPP | High Efficiency Ice Maker | Standard code minimum Ice Maker | Healthcare | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 69% | 0.2 |
| FE-WPP | High Efficiency Ice Making Head | Standard Ice Making Head | Healthcare | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.6 |
| FE-WPP | High Efficiency Ice Making Head | Standard Ice Making Head | Healthcare | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.6 |
| FE-WPP | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Healthcare | Refrigeration | Early | Fixture | 373 | 56% | 0.02 | 8 | \$448 | 86% | 0.2 |
| FE-WPP | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Healthcare | Refrigeration | New | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 86% | 0.3 |
| FE-WPP | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Healthcare | Refrigeration | ROB | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 86% | 0.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|--|------------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Quick acting freezer doors | Std. Freezer Doors | Healthcare | Refrigeration | Existing | building | 2,037 | 13% | 0.1 | 10 | \$2,101 | 56% | 0.1 |
| FE-WPP | Quick acting freezer doors | Std. Freezer Doors | Healthcare | Refrigeration | New | building | 2,037 | 13% | 0.1 | 10 | \$2,101 | 56% | 0.1 |
| FE-WPP | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Healthcare | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 29% | 0.4 |
| FE-WPP | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Healthcare | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 29% | 1.4 |
| FE-WPP | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Healthcare | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 29% | 1.5 |
| FE-WPP | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 29% | 1.5 |
| FE-WPP | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 29% | 2.6 |
| FE-WPP | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 29% | 2.6 |
| FE-WPP | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 29% | 1.5 |
| FE-WPP | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 29% | 3.5 |
| FE-WPP | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 29% | 3.5 |
| FE-WPP | Refrigeration Commissioning | Non-commissioned refrigeration system | Healthcare | Refrigeration | Existing | building | 25,464 | 9.5% | 0.10 | 3 | \$1,147 | 85% | 0.3 |
| FE-WPP | Refrigeration Commissioning | Non-commissioned refrigeration system | Healthcare | Refrigeration | New | building | 25,464 | 9.5% | 0.10 | 3 | \$1,147 | 85% | 0.3 |
| FE-WPP | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Healthcare | Refrigeration | Existing | building | 2,037 | 14% | 0.1 | 4 | \$93 | 22% | 0.9 |
| FE-WPP | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Healthcare | Refrigeration | Existing | building | 22,663 | 2.9% | 0.03 | 4 | \$140 | 22% | 0.8 |
| FE-WPP | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Healthcare | Refrigeration | New | building | 2,037 | 14% | 0.1 | 4 | \$93 | 22% | 0.9 |
| FE-WPP | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Healthcare | Refrigeration | New | building | 22,663 | 2.9% | 0.03 | 4 | \$140 | 22% | 0.8 |
| FE-WPP | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Healthcare | Refrigeration | Existing | building | 2,037 | 2.6% | 0.03 | 11 | \$130 | 77% | 0.3 |
| FE-WPP | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Healthcare | Refrigeration | New | building | 2,037 | 2.6% | 0.03 | 11 | \$130 | 77% | 0.3 |
| FE-WPP | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Healthcare | Refrigeration | Existing | building | 22,663 | 2.0% | 0.02 | 11 | \$130 | 77% | 1.4 |
| FE-WPP | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Healthcare | Refrigeration | New | building | 22,663 | 2.0% | 0.02 | 11 | \$130 | 77% | 1.4 |
| FE-WPP | Vendor Miser | No Vendor Miser | Healthcare | Refrigeration | Existing | machine | 1,019 | 12% | 0.1 | 8 | \$102 | 7% | 1.0 |
| FE-WPP | VSD Controlled Compressor | Compressor w/out VSD | Healthcare | Refrigeration | Early | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 73% | 0.1 |
| FE-WPP | VSD Controlled Compressor | Compressor w/out VSD | Healthcare | Refrigeration | New | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 73% | 0.1 |
| FE-WPP | VSD Controlled Compressor | Compressor w/out VSD | Healthcare | Refrigeration | ROB | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 73% | 0.1 |
| FE-WPP | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Healthcare | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$269 | 35% | 0.8 |
| FE-WPP | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Healthcare | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$269 | 35% | 0.8 |
| FE-WPP | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Healthcare | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 2.8 |
| FE-WPP | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Healthcare | Refrigeration | New | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 2.7 |
| FE-WPP | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Healthcare | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 2.8 |
| FE-WPP | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Healthcare | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 2.7 |
| FE-WPP | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 35% | 2.1 |
| FE-WPP | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 35% | 2.0 |
| FE-WPP | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 4.6 |
| FE-WPP | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.3 |
| FE-WPP | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 4.6 |
| FE-WPP | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.3 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Healthcare | Space Heating | Existing | building | 33,511 | 7.1% | 0.07 | 6 | \$15,042 | 82% | 0.0 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Healthcare | Space Heating | New | building | 33,511 | 7.1% | 0.07 | 6 | \$15,042 | 82% | 0.0 |
| FE-WPP | Adding window shade film | No shade film | Healthcare | Space Heating | Existing | building | 33,511 | 1.3% | 0.4 | 10 | \$408 | 13% | 0.9 |
| FE-WPP | Adding window shade film | No shade film | Healthcare | Space Heating | New | building | 33,511 | 1.3% | 0.4 | 10 | \$408 | 13% | 0.9 |
| FE-WPP | Adding window shade screen | No shade screen | Healthcare | Space Heating | Existing | building | 33,511 | 1.1% | 0.01 | 10 | \$158 | 13% | 0.8 |
| FE-WPP | Adding window shade screen | No shade screen | Healthcare | Space Heating | New | building | 33,511 | 1.1% | 0.01 | 10 | \$158 | 13% | 0.8 |
| FE-WPP | Automated control system | Manual Controls | Healthcare | Space Heating | Existing | building | 33,511 | 17% | 0.2 | 15 | \$36,687 | 51% | 0.1 |
| FE-WPP | Automated control system | Manual Controls | Healthcare | Space Heating | New | building | 33,511 | 17% | 0.2 | 15 | \$36,687 | 94% | 0.1 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Healthcare | Space Heating | Existing | building | 33,511 | 1.1% | 0.01 | 15 | \$20,566 | 71% | 0.0 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Healthcare | Space Heating | New | building | 33,511 | 0.3% | 0.00 | 15 | \$19,549 | 94% | 0.0 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Healthcare | Space Heating | Existing | building | 33,511 | 1.4% | 0.04 | 15 | \$266 | 20% | 0.9 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Healthcare | Space Heating | New | building | 33,511 | 1.4% | 0.04 | 15 | \$266 | 10% | 0.9 |
| FE-WPP | Efficient Unit Heating System | Existing Unit Heaters in PA | Healthcare | Space Heating | Early | heater | 20,078 | 23% | 0.03 | 15 | \$3,289 | 83% | 0.7 |
| FE-WPP | Efficient Unit Heating System | Std. Unit Heater | Healthcare | Space Heating | New | heater | 17,819 | 13% | 0.02 | 15 | \$1,991 | 83% | 0.5 |
| FE-WPP | Efficient Unit Heating System | Std. Unit Heater | Healthcare | Space Heating | ROB | heater | 17,819 | 13% | 0.02 | 15 | \$1,991 | 83% | 0.5 |
| FE-WPP | Facility Commissioning | No Facility Commissioning | Healthcare | Space Heating | New | building | 33,511 | 16% | 0.2 | 10 | \$67,587 | 89% | 0.0 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Healthcare | Space Heating | Existing | building | 33,511 | 7.1% | 0.07 | 15 | \$148,647 | 25% | 0.0 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Healthcare | Space Heating | New | building | 33,511 | 7.1% | 0.07 | 15 | \$148,647 | 35% | 0.0 |
| FE-WPP | Hi Eff HVAC System Design | No HVAC Design | Healthcare | Space Heating | New | building | 33,511 | 8.6% | 0.09 | 10 | \$657,319 | 51% | 0.0 |
| FE-WPP | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Healthcare | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 0.9 |
| FE-WPP | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Healthcare | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 0.9 |
| FE-WPP | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Healthcare | Space Heating | Existing | building | 33,511 | 2.1% | 0.02 | 10 | \$7,735 | 81% | 0.0 |
| FE-WPP | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Healthcare | Space Heating | New | building | 33,511 | 2.1% | 0.02 | 10 | \$7,735 | 81% | 0.0 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Healthcare | Space Heating | Existing | building | 33,511 | 3.6% | 0.04 | 11 | \$286 | 49% | 1.6 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Healthcare | Space Heating | New | building | 33,511 | 3.1% | 0.03 | 11 | \$146 | 49% | 2.7 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|--|--|------------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Re-Commissioning (Existing Construction) | No Re-Commissioning | Healthcare | Space Heating | Existing | building | 33,511 | 16% | 0.2 | 5 | \$8,847 | 86% | 0.1 |
| FE-WPP | VFD on Cooling Tower Fan | Motor w/out VFD | Healthcare | Space Heating | Early | motor | 48,837 | 70% | 3.4 | 15 | \$2,843 | 88% | 6.6 |
| FE-WPP | VFD on Cooling Tower Fan | Motor w/out VFD | Healthcare | Space Heating | New | motor | 47,923 | 72% | 3.3 | 15 | \$2,843 | 88% | 6.6 |
| FE-WPP | VFD on Cooling Tower Fan | Motor w/out VFD | Healthcare | Space Heating | ROB | motor | 47,923 | 72% | 3.3 | 15 | \$2,843 | 88% | 6.6 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Healthcare | Space Heating | Existing | building | 33,511 | 2.6% | 0.03 | 15 | \$5,624 | 26% | 0.1 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Healthcare | Space Heating | New | building | 33,511 | 0.1% | 0.00 | 15 | \$4,314 | 94% | 0.0 |
| FE-WPP | Green LED Traffic Light | Green Incandescent Traffic Light | Healthcare | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 0% | 1.1 |
| FE-WPP | Green LED Traffic Light | Green Incandescent Traffic Light | Healthcare | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| FE-WPP | Green LED Traffic Light | Green Incandescent Traffic Light | Healthcare | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| FE-WPP | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Healthcare | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 0% | 2.8 |
| FE-WPP | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Healthcare | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-WPP | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Healthcare | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-WPP | Induction Street Lighting | One 100W HPS Street Light Fixture | Healthcare | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 0% | 0.3 |
| FE-WPP | Induction Street Lighting | One 100W HPS Street Light Fixture | Healthcare | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.6 |
| FE-WPP | Induction Street Lighting | One 100W HPS Street Light Fixture | Healthcare | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.6 |
| FE-WPP | LED Street Lighting | One 100W HPS Street Light | Healthcare | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 0% | 0.2 |
| FE-WPP | LED Street Lighting | One 100W HPS Street Light | Healthcare | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-WPP | LED Street Lighting | One 100W HPS Street Light | Healthcare | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-WPP | Red LED Traffic Light | One Red Incandescent Traffic Light | Healthcare | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 0% | 1.5 |
| FE-WPP | Red LED Traffic Light | One Red Incandescent Traffic Light | Healthcare | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| FE-WPP | Red LED Traffic Light | One Red Incandescent Traffic Light | Healthcare | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| FE-WPP | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Healthcare | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 0% | 0.1 |
| FE-WPP | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Healthcare | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-WPP | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Healthcare | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-WPP | Demand controlled Circulating Systems | Constant circulation system | Healthcare | Water Heating | Existing | building | 1,981 | 20% | 0.2 | 15 | \$359 | 59% | 1.0 |
| FE-WPP | Demand controlled Circulating Systems | Constant circulation system | Healthcare | Water Heating | New | building | 1,981 | 20% | 0.2 | 15 | \$359 | 59% | 1.0 |
| FE-WPP | Drainwater Heat Recovery Water Heater | No heat recovery | Healthcare | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.7 |
| FE-WPP | Drainwater Heat Recovery Water Heater | No heat recovery | Healthcare | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.7 |
| FE-WPP | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Healthcare | Water Heating | Existing | building | 1,981 | 5.9% | 0.06 | 12 | \$140 | 85% | 0.6 |
| FE-WPP | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Healthcare | Water Heating | New | building | 1,981 | 5.9% | 0.06 | 12 | \$40 | 85% | 2.3 |
| FE-WPP | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Healthcare | Water Heating | Early | water heater | 96,871 | 66% | 11.3 | 10 | \$3,562 | 68% | 8.4 |
| FE-WPP | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Healthcare | Water Heating | Early | water heater | 96,871 | 66% | 11.3 | 10 | \$3,562 | 68% | 8.4 |
| FE-WPP | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Healthcare | Water Heating | New | water heater | 96,871 | 66% | 11.3 | 10 | \$3,562 | 68% | 8.4 |
| FE-WPP | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Healthcare | Water Heating | New | water heater | 96,871 | 66% | 11.3 | 10 | \$3,562 | 68% | 8.4 |
| FE-WPP | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Healthcare | Water Heating | ROB | water heater | 94,180 | 65% | 10.9 | 10 | \$3,562 | 68% | 8.0 |
| FE-WPP | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Healthcare | Water Heating | ROB | water heater | 94,180 | 65% | 10.9 | 10 | \$3,562 | 68% | 8.0 |
| FE-WPP | Heat Recovery Unit | Base Water Heating | Healthcare | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.5 |
| FE-WPP | Heat Recovery Unit | Base Water Heating | Healthcare | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.5 |
| FE-WPP | Heat Trap | No Heat Trap | Healthcare | Water Heating | Existing | building | 1,981 | 1.0% | 0.01 | 11 | \$0.4 | 50% | 38.3 |
| FE-WPP | Heat Trap | No Heat Trap | Healthcare | Water Heating | New | building | 1,981 | 1.0% | 0.01 | 11 | \$0.2 | 50% | 99.9 |
| FE-WPP | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Healthcare | Water Heating | Early | water heater | 96,871 | 5.9% | 1.0 | 15 | \$921 | 79% | 4.0 |
| FE-WPP | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Healthcare | Water Heating | Early | water heater | 96,871 | 5.9% | 1.0 | 15 | \$921 | 79% | 4.0 |
| FE-WPP | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Healthcare | Water Heating | New | water heater | 94,180 | 3.2% | 0.5 | 15 | \$921 | 79% | 2.1 |
| FE-WPP | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Healthcare | Water Heating | New | water heater | 94,180 | 3.2% | 0.5 | 15 | \$921 | 79% | 2.1 |
| FE-WPP | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Healthcare | Water Heating | ROB | water heater | 94,180 | 3.2% | 0.5 | 15 | \$921 | 79% | 2.1 |
| FE-WPP | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Healthcare | Water Heating | ROB | water heater | 94,180 | 3.2% | 0.5 | 15 | \$921 | 79% | 2.1 |
| FE-WPP | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Healthcare | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$466 | 81% | 36.2 |
| FE-WPP | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Healthcare | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 18.9 |
| FE-WPP | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Healthcare | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 18.9 |
| FE-WPP | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Healthcare | Water Heating | Existing | building | 1,981 | 3.1% | 0.03 | 13 | \$9.2 | 68% | 5.5 |
| FE-WPP | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Healthcare | Water Heating | New | building | 1,981 | 3.1% | 0.03 | 13 | \$9.2 | 0% | 5.5 |
| FE-WPP | Hot Water Circulation Pump Time-Clock | Constant circulation system | Healthcare | Water Heating | Existing | building | 1,981 | 5.3% | 0.05 | 10 | \$8.0 | 72% | 8.9 |
| FE-WPP | Hot Water Circulation Pump Time-Clock | Constant circulation system | Healthcare | Water Heating | New | building | 1,981 | 5.3% | 0.05 | 10 | \$8.0 | 72% | 8.9 |
| FE-WPP | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Healthcare | Water Heating | Existing | building | 1,763 | 0.1% | 0.00 | 7 | \$22 | 78% | 0.0 |
| FE-WPP | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Healthcare | Water Heating | New | building | 1,763 | 0.1% | 0.00 | 7 | \$0.5 | 78% | 2.1 |
| FE-WPP | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Healthcare | Water Heating | Existing | building | 1,981 | 9.7% | 0.10 | 5 | \$300 | 20% | 0.3 |
| FE-WPP | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Healthcare | Water Heating | New | building | 1,981 | 6.4% | 0.06 | 5 | \$194 | 20% | 0.3 |
| FE-WPP | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Healthcare | Water Heating | Existing | building | 1,981 | 6.5% | 0.07 | 9 | \$250 | 9% | 0.3 |
| FE-WPP | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Healthcare | Water Heating | New | building | 1,981 | 6.5% | 0.07 | 9 | \$60 | 9% | 1.4 |
| FE-WPP | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Healthcare | Water Heating | Early | water heater | 96,871 | 52% | 4.1 | 15 | \$18,666 | 32% | 1.5 |
| FE-WPP | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Healthcare | Water Heating | New | water heater | 94,180 | 51% | 3.9 | 15 | \$18,666 | 32% | 1.4 |
| FE-WPP | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Healthcare | Water Heating | ROB | water heater | 94,180 | 51% | 3.9 | 15 | \$18,666 | 32% | 1.4 |
| FE-WPP | Ultrasonic Faucet Control | Manual Faucet Control | Healthcare | Water Heating | Existing | building | 1,981 | 3.0% | 0.03 | 10 | \$343 | 77% | 0.1 |
| FE-WPP | Ultrasonic Faucet Control | Manual Faucet Control | Healthcare | Water Heating | New | building | 1,981 | 3.1% | 0.03 | 10 | \$343 | 77% | 0.1 |
| FE-WPP | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Healthcare | Water Heating | Existing | building | 1,981 | 2.2% | 0.02 | 4 | \$28 | 83% | 0.5 |
| FE-WPP | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Healthcare | Water Heating | New | building | 1,981 | 2.3% | 0.02 | 4 | \$28 | 83% | 0.5 |
| FE-WPP | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Lodging | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.0 |
| FE-WPP | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Lodging | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.0 |
| FE-WPP | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Lodging | Cooking | Early | steamer | 51 | 46% | 0.00 | 12 | \$5,053 | 81% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|--|---|---------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Lodging | Cooking | New | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-WPP | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Lodging | Cooking | ROB | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-WPP | Electric combination oven (Energy Star) | Standard Oven | Lodging | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.8 |
| FE-WPP | Electric combination oven (Energy Star) | Standard Oven | Lodging | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.8 |
| FE-WPP | Electric Convection Oven | Conventional convection oven w/ 65% efficiency | Lodging | Cooking | Early | oven | 8,641 | 37% | 0.6 | 12 | \$4,119 | 81% | 0.4 |
| FE-WPP | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Lodging | Cooking | New | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.7 |
| FE-WPP | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Lodging | Cooking | ROB | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.7 |
| FE-WPP | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Lodging | Cooking | Early | fryer | 6,105 | 23% | 0.3 | 12 | \$9,241 | 86% | 0.1 |
| FE-WPP | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Lodging | Cooking | New | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| FE-WPP | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Lodging | Cooking | ROB | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| FE-WPP | High Efficiency Griddle (ENERGY STAR) | Efficiency code minimum griddle (70% eff) | Lodging | Cooking | Early | griddle | 11,317 | 65% | 1.4 | 12 | \$4,977 | 86% | 0.8 |
| FE-WPP | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Lodging | Cooking | New | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.1 |
| FE-WPP | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Lodging | Cooking | ROB | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.1 |
| FE-WPP | High Efficiency Induction Cooking | Standard Cooking | Lodging | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-WPP | High Efficiency Induction Cooking | Standard Cooking | Lodging | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Lodging | Cooling Central | Existing | building | 5,014 | 7.0% | 0.07 | 6 | \$17,447 | 82% | 0.0 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Lodging | Cooling Central | New | building | 5,014 | 7.0% | 0.07 | 6 | \$17,447 | 82% | 0.0 |
| FE-WPP | Adding window shade film | No shade film | Lodging | Cooling Central | Existing | building | 5,014 | 1.3% | 0.4 | 10 | \$61 | 12% | 4.3 |
| FE-WPP | Adding window shade film | No shade film | Lodging | Cooling Central | New | building | 5,014 | 1.3% | 0.4 | 10 | \$61 | 13% | 4.3 |
| FE-WPP | Adding window shade screen | No shade screen | Lodging | Cooling Central | Existing | building | 5,014 | 1.1% | 0.01 | 10 | \$24 | 13% | 1.1 |
| FE-WPP | Adding window shade screen | No shade screen | Lodging | Cooling Central | New | building | 5,014 | 1.1% | 0.01 | 10 | \$24 | 13% | 1.1 |
| FE-WPP | Automated control system | Manual Controls | Lodging | Cooling Central | Existing | building | 5,014 | 17% | 0.2 | 15 | \$5,490 | 51% | 0.1 |
| FE-WPP | Automated control system | Manual Controls | Lodging | Cooling Central | New | building | 5,014 | 17% | 0.2 | 15 | \$5,490 | 94% | 0.1 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Lodging | Cooling Central | Existing | building | 5,014 | 3.3% | 0.03 | 15 | \$23,552 | 71% | 0.0 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Lodging | Cooling Central | New | building | 5,014 | 1.1% | 0.01 | 15 | \$22,387 | 94% | 0.0 |
| FE-WPP | Chiller Tuneup/Diagnostics | No tuneup | Lodging | Cooling Central | Existing | building | 5,014 | 8.0% | 0.08 | 10 | \$12,804 | 59% | 0.0 |
| FE-WPP | Chiller Tuneup/Diagnostics | No tuneup | Lodging | Cooling Central | New | building | 5,014 | 8.0% | 0.08 | 10 | \$12,804 | 59% | 0.0 |
| FE-WPP | Commercial energy recovery ventilation systems | No Commercial Recovery System | Lodging | Cooling Central | Existing | building | 5,014 | 16% | 0.2 | 14 | \$4,531 | 71% | 0.1 |
| FE-WPP | Cooling Tower Optimization | No Cooling Tower Optimization | Lodging | Cooling Central | Existing | building | 5,014 | 20% | 0.2 | 10 | \$31 | 69% | 15.4 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Lodging | Cooling Central | Existing | building | 5,014 | 1.4% | 0.04 | 15 | \$40 | 20% | 1.7 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Lodging | Cooling Central | New | building | 5,014 | 1.4% | 0.04 | 15 | \$40 | 10% | 1.7 |
| FE-WPP | Facility Commissioning | No Facility Commissioning | Lodging | Cooling Central | New | building | 5,014 | 16% | 0.2 | 10 | \$2,292 | 89% | 0.2 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Lodging | Cooling Central | Existing | building | 5,014 | 7.0% | 0.07 | 15 | \$22,243 | 25% | 0.0 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Lodging | Cooling Central | New | building | 5,014 | 7.0% | 0.07 | 15 | \$22,243 | 35% | 0.0 |
| FE-WPP | Hi Eff HVAC System Design | No HVAC Design | Lodging | Cooling Central | New | building | 5,014 | 7.3% | 0.07 | 10 | \$65,588 | 51% | 0.0 |
| FE-WPP | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Lodging | Cooling Central | Early | ton | 14,787 | 24% | 1.2 | 15 | \$108,550 | 88% | 0.0 |
| FE-WPP | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Lodging | Cooling Central | New | ton | 12,088 | 6.7% | 0.3 | 15 | \$12,927 | 88% | 0.0 |
| FE-WPP | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Lodging | Cooling Central | ROB | ton | 12,088 | 6.7% | 0.3 | 15 | \$12,927 | 88% | 0.0 |
| FE-WPP | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Lodging | Cooling Central | Early | ton | 22,095 | 23% | 1.8 | 15 | \$140,105 | 88% | 0.0 |
| FE-WPP | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Lodging | Cooling Central | New | ton | 17,776 | 4.9% | 0.3 | 15 | \$9,336 | 88% | 0.1 |
| FE-WPP | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Lodging | Cooling Central | ROB | ton | 17,776 | 4.8% | 0.3 | 15 | \$9,336 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Lodging | Cooling Central | Early | ton | 180,879 | 26% | 16.3 | 15 | \$105,354 | 88% | 0.4 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Lodging | Cooling Central | New | ton | 157,597 | 15% | 8.2 | 15 | \$30,530 | 88% | 0.6 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Lodging | Cooling Central | ROB | ton | 157,597 | 15% | 8.2 | 15 | \$30,530 | 88% | 0.6 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Lodging | Cooling Central | Early | ton | 270,907 | 23% | 21.5 | 15 | \$154,107 | 88% | 0.3 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Lodging | Cooling Central | New | ton | 248,862 | 16% | 13.9 | 15 | \$27,646 | 88% | 1.1 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Lodging | Cooling Central | ROB | ton | 270,907 | 23% | 21.5 | 15 | \$27,646 | 88% | 1.8 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Lodging | Cooling Central | Early | ton | 449,925 | 23% | 35.3 | 15 | \$302,924 | 88% | 0.3 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Lodging | Cooling Central | New | ton | 407,215 | 14% | 20.4 | 15 | \$115,432 | 88% | 0.4 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Lodging | Cooling Central | ROB | ton | 449,925 | 23% | 35.3 | 15 | \$115,432 | 88% | 0.7 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Lodging | Cooling Central | Early | ton | 539,911 | 23% | 42.4 | 15 | \$350,154 | 88% | 0.3 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Lodging | Cooling Central | New | ton | 488,657 | 14% | 24.6 | 15 | \$120,406 | 88% | 0.5 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Lodging | Cooling Central | ROB | ton | 539,911 | 23% | 42.4 | 15 | \$120,406 | 88% | 0.8 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Lodging | Cooling Central | Early | ton | 119,676 | 29% | 12.2 | 15 | \$83,632 | 88% | 0.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|--|---|---------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Lodging | Cooling Central | New | ton | 92,927 | 8.9% | 2.9 | 15 | \$40,211 | 88% | 0.2 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Lodging | Cooling Central | ROB | ton | 119,676 | 29% | 12.2 | 15 | \$40,211 | 88% | 0.7 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Lodging | Cooling Central | Early | ton | 205,633 | 35% | 24.9 | 15 | \$132,173 | 88% | 0.4 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Lodging | Cooling Central | New | ton | 153,367 | 13% | 6.7 | 15 | \$39,556 | 88% | 0.4 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Lodging | Cooling Central | ROB | ton | 153,367 | 13% | 6.7 | 15 | \$39,556 | 88% | 0.4 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Lodging | Cooling Central | Early | ton | 343,320 | 39% | 46.7 | 15 | \$187,029 | 88% | 0.6 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Lodging | Cooling Central | New | ton | 244,782 | 15% | 12.4 | 15 | \$33,554 | 88% | 0.8 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Lodging | Cooling Central | ROB | ton | 343,320 | 39% | 46.7 | 15 | \$33,554 | 88% | 3.2 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Lodging | Cooling Central | Early | ton | 60,076 | 30% | 6.2 | 15 | \$32,398 | 88% | 0.4 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Lodging | Cooling Central | New | ton | 47,597 | 11% | 1.8 | 15 | \$7,188 | 88% | 0.6 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Lodging | Cooling Central | ROB | ton | 60,076 | 30% | 6.2 | 15 | \$7,188 | 88% | 2.0 |
| FE-WPP | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Lodging | Cooling Central | Existing | building | 5,014 | 3.5% | 0.04 | 10 | \$2,396 | 81% | 0.0 |
| FE-WPP | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Lodging | Cooling Central | New | building | 5,014 | 3.5% | 0.04 | 10 | \$2,396 | 81% | 0.0 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Lodging | Cooling Central | Existing | building | 5,014 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.2 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Lodging | Cooling Central | New | building | 5,014 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.3 |
| FE-WPP | Re-Commissioning (Existing Construction) | No Re-Commissioning | Lodging | Cooling Central | Existing | building | 5,014 | 16% | 0.2 | 5 | \$12,530 | 86% | 0.0 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Lodging | Cooling Central | Existing | building | 5,014 | 8.0% | 0.08 | 15 | \$6,019 | 26% | 0.0 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Lodging | Cooling Central | New | building | 5,014 | 0.2% | 0.00 | 15 | \$4,617 | 94% | 0.0 |
| FE-WPP | <65k BTU/hr 14 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Lodging | Cooling Unitary | Early | ton | 4,519 | 16% | 0.4 | 15 | \$1,545 | 29% | 0.5 |
| FE-WPP | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Lodging | Cooling Unitary | New | ton | 4,093 | 7.1% | 0.2 | 15 | \$339 | 29% | 0.8 |
| FE-WPP | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Lodging | Cooling Unitary | ROB | ton | 4,093 | 7.1% | 0.2 | 15 | \$339 | 29% | 0.8 |
| FE-WPP | <65k BTU/hr 15 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Lodging | Cooling Unitary | Early | ton | 4,519 | 22% | 0.5 | 15 | \$1,821 | 30% | 0.5 |
| FE-WPP | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Lodging | Cooling Unitary | New | ton | 4,093 | 13% | 0.3 | 15 | \$714 | 30% | 0.7 |
| FE-WPP | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Lodging | Cooling Unitary | ROB | ton | 4,093 | 13% | 0.3 | 15 | \$714 | 30% | 0.7 |
| FE-WPP | <65k BTU/hr 16 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Lodging | Cooling Unitary | Early | ton | 4,519 | 26% | 0.7 | 15 | \$2,098 | 31% | 0.6 |
| FE-WPP | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Lodging | Cooling Unitary | New | ton | 4,093 | 19% | 0.4 | 15 | \$1,089 | 31% | 0.7 |
| FE-WPP | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Lodging | Cooling Unitary | ROB | ton | 4,093 | 19% | 0.4 | 15 | \$1,089 | 31% | 0.7 |
| FE-WPP | >760k min 10.2 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Lodging | Cooling Unitary | Early | ton | 114,336 | 3.7% | 2.4 | 15 | \$68,066 | 56% | 0.1 |
| FE-WPP | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Lodging | Cooling Unitary | New | ton | 115,802 | 4.9% | 3.2 | 15 | \$6,231 | 56% | 0.9 |
| FE-WPP | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Lodging | Cooling Unitary | ROB | ton | 115,802 | 4.9% | 3.2 | 15 | \$6,231 | 56% | 0.9 |
| FE-WPP | 135-240k min 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Lodging | Cooling Unitary | Early | ton | 28,133 | 18% | 2.9 | 15 | \$18,135 | 79% | 0.3 |
| FE-WPP | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Lodging | Cooling Unitary | New | ton | 25,591 | 10.0% | 1.4 | 15 | \$1,948 | 79% | 1.3 |
| FE-WPP | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Lodging | Cooling Unitary | ROB | ton | 25,591 | 10.0% | 1.4 | 15 | \$1,948 | 79% | 1.3 |
| FE-WPP | 240k-760k min 11 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Lodging | Cooling Unitary | Early | ton | 75,221 | 9.0% | 3.8 | 15 | \$44,809 | 66% | 0.1 |
| FE-WPP | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Lodging | Cooling Unitary | New | ton | 75,408 | 9.3% | 3.9 | 15 | \$4,813 | 66% | 1.4 |
| FE-WPP | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Lodging | Cooling Unitary | ROB | ton | 75,408 | 9.3% | 3.9 | 15 | \$4,813 | 66% | 1.4 |
| FE-WPP | 65k-135k BTU/hr 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Lodging | Cooling Unitary | Early | ton | 16,584 | 17% | 1.6 | 15 | \$10,946 | 86% | 0.2 |
| FE-WPP | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Lodging | Cooling Unitary | New | ton | 14,780 | 6.7% | 0.6 | 15 | \$1,392 | 86% | 0.7 |
| FE-WPP | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Lodging | Cooling Unitary | ROB | ton | 14,780 | 6.7% | 0.6 | 15 | \$1,392 | 86% | 0.7 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Lodging | Cooling Unitary | Existing | building | 59,815 | 7.1% | 0.07 | 6 | \$17,447 | 82% | 0.1 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Lodging | Cooling Unitary | New | building | 59,815 | 7.1% | 0.07 | 6 | \$17,447 | 82% | 0.1 |
| FE-WPP | Adding window shade film | No shade film | Lodging | Cooling Unitary | Existing | building | 59,815 | 1.3% | 0.4 | 10 | \$728 | 12% | 0.7 |
| FE-WPP | Adding window shade film | No shade film | Lodging | Cooling Unitary | New | building | 59,815 | 1.3% | 0.4 | 10 | \$728 | 13% | 0.7 |
| FE-WPP | Adding window shade screen | No shade screen | Lodging | Cooling Unitary | Existing | building | 59,815 | 1.1% | 0.01 | 10 | \$282 | 12% | 0.8 |
| FE-WPP | Adding window shade screen | No shade screen | Lodging | Cooling Unitary | New | building | 59,815 | 1.1% | 0.01 | 10 | \$282 | 13% | 0.8 |
| FE-WPP | Automated control system | Manual Controls | Lodging | Cooling Unitary | Existing | building | 59,815 | 17% | 0.2 | 15 | \$65,484 | 51% | 0.1 |
| FE-WPP | Automated control system | Manual Controls | Lodging | Cooling Unitary | New | building | 59,815 | 17% | 0.2 | 15 | \$65,484 | 94% | 0.1 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Lodging | Cooling Unitary | Existing | building | 59,815 | 3.4% | 0.03 | 15 | \$23,552 | 71% | 0.0 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Lodging | Cooling Unitary | New | building | 59,815 | 1.1% | 0.01 | 15 | \$22,387 | 94% | 0.0 |
| FE-WPP | Commercial energy recovery ventilation systems | No Commercial Recovery System | Lodging | Cooling Unitary | Existing | building | 59,815 | 16% | 0.2 | 14 | \$54,052 | 71% | 0.1 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Lodging | Cooling Unitary | Existing | building | 59,815 | 1.4% | 0.04 | 15 | \$475 | 20% | 0.9 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Lodging | Cooling Unitary | New | building | 59,815 | 1.4% | 0.04 | 15 | \$475 | 10% | 0.9 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|--|---------|-----------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Lodging | Cooling Unitary | Existing | building | 32,898 | 13% | 0.1 | 1 | \$315 | 73% | 0.7 |
| FE-WPP | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Lodging | Cooling Unitary | New | building | 32,898 | 13% | 0.1 | 1 | \$315 | 73% | 0.7 |
| FE-WPP | ECM Motors for split systems | Std Shaded Pole Motor | Lodging | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.7 |
| FE-WPP | ECM Motors for split systems | Std Shaded Pole Motor | Lodging | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.7 |
| FE-WPP | Facility Commissioning | No Facility Commissioning | Lodging | Cooling Unitary | New | building | 59,815 | 16% | 0.2 | 10 | \$971 | 89% | 3.6 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Lodging | Cooling Unitary | Existing | building | 59,815 | 7.1% | 0.07 | 15 | \$265,327 | 25% | 0.0 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Lodging | Cooling Unitary | New | building | 59,815 | 7.1% | 0.07 | 15 | \$265,327 | 35% | 0.0 |
| FE-WPP | Hi Eff HVAC System Design | No HVAC Design | Lodging | Cooling Unitary | New | building | 59,815 | 7.3% | 0.07 | 10 | \$6,693 | 51% | 0.2 |
| FE-WPP | Hotel Occupancy Sensor | HVAC system w/out Occupancy Sensors | Lodging | Cooling Unitary | Existing | building | 59,815 | 3.5% | 0.04 | 15 | \$11,644 | 89% | 0.1 |
| FE-WPP | Hotel Occupancy Sensor | HVAC system w/out Occupancy Sensors | Lodging | Cooling Unitary | New | building | 59,815 | 3.5% | 0.04 | 15 | \$11,644 | 94% | 0.1 |
| FE-WPP | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Lodging | Cooling Unitary | Existing | building | 59,815 | 5.0% | 0.05 | 5 | \$225 | 59% | 2.8 |
| FE-WPP | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Lodging | Cooling Unitary | Existing | building | 59,815 | 0.2% | 0.04 | 5 | \$225 | 51% | 0.2 |
| FE-WPP | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Lodging | Cooling Unitary | New | building | 59,815 | 0.2% | 0.04 | 5 | \$135 | 51% | 0.3 |
| FE-WPP | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Lodging | Cooling Unitary | Existing | building | 59,815 | 3.5% | 0.04 | 10 | \$2,575 | 86% | 0.3 |
| FE-WPP | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Lodging | Cooling Unitary | New | building | 59,815 | 3.5% | 0.04 | 10 | \$2,575 | 86% | 0.3 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) | Lodging | Cooling Unitary | Existing | building | 59,815 | 2.0% | 0.02 | 11 | \$286 | 49% | 1.7 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Lodging | Cooling Unitary | New | building | 59,815 | 1.7% | 0.02 | 11 | \$146 | 49% | 2.8 |
| FE-WPP | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Lodging | Cooling Unitary | Early | unit | 473 | 19% | 0.2 | 15 | \$849 | 85% | 0.2 |
| FE-WPP | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Lodging | Cooling Unitary | New | unit | 478 | 20% | 0.2 | 15 | \$356 | 85% | 0.5 |
| FE-WPP | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Lodging | Cooling Unitary | ROB | unit | 478 | 20% | 0.2 | 15 | \$356 | 85% | 0.5 |
| FE-WPP | Re-Commissioning (Existing Construction) | No Re-Commissioning | Lodging | Cooling Unitary | Existing | building | 59,815 | 16% | 0.2 | 5 | \$12,530 | 86% | 0.2 |
| FE-WPP | Room AC (w/ louvered sides) | Existing efficiency Room AC in Pennsylvania (2000 Federal Standards) | Lodging | Cooling Unitary | Early | ton | 2,000 | 13% | 0.09 | 9 | \$348 | 82% | 0.4 |
| FE-WPP | Room AC (w/ louvered sides) | Std Room AC (Code Min. Federal Standards) | Lodging | Cooling Unitary | New | ton | 1,813 | 4.5% | 0.03 | 9 | \$17 | 82% | 2.5 |
| FE-WPP | Room AC (w/ louvered sides) | Std Room AC (Code Min. Federal Standards) | Lodging | Cooling Unitary | ROB | ton | 1,813 | 4.5% | 0.03 | 9 | \$17 | 82% | 2.5 |
| FE-WPP | Wall Insulations (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Lodging | Cooling Unitary | Existing | building | 59,815 | 8.2% | 0.08 | 15 | \$6,019 | 26% | 0.4 |
| FE-WPP | Wall Insulations (Going upto R 21) | Code minimum Wall Insulations | Lodging | Cooling Unitary | New | building | 59,815 | 0.2% | 0.00 | 15 | \$4,617 | 94% | 0.0 |
| FE-WPP | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Lodging | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 1.0 |
| FE-WPP | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Lodging | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.3 |
| FE-WPP | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Lodging | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.3 |
| FE-WPP | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Lodging | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 0% | 0.2 |
| FE-WPP | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Lodging | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-WPP | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Lodging | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-WPP | LED exterior lighting | 250 Watt Incandescent | Lodging | Ext. Lighting | ROB | measure | 529 | 83% | 0.07 | 15 | \$104 | 89% | 2.7 |
| FE-WPP | LED exterior lighting | 250 Watt Incandescent | Lodging | Ext. Lighting | ROB | measure | 529 | 83% | 0.07 | 15 | \$104 | 89% | 2.7 |
| FE-WPP | LED exterior lighting | 250 Watt Incandescent | Lodging | Ext. Lighting | ROB | measure | 529 | 83% | 0.07 | 15 | \$104 | 89% | 2.7 |
| FE-WPP | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Lodging | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 75% | 0.3 |
| FE-WPP | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Lodging | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 75% | 0.2 |
| FE-WPP | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Lodging | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.6 |
| FE-WPP | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Lodging | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.0 |
| FE-WPP | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Lodging | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.6 |
| FE-WPP | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Lodging | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.0 |
| FE-WPP | Photocell Controls (Outdoor) | Lighting w/ No Controls | Lodging | Ext. Lighting | Existing | building | 362 | 28% | 0.3 | 8 | \$4,117 | 88% | 0.0 |
| FE-WPP | Photocell Controls (Outdoor) | Lighting w/ No Controls | Lodging | Ext. Lighting | New | building | 362 | 28% | 0.3 | 8 | \$4,117 | 0% | 0.0 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Lodging | Heat Pump | Existing | building | 5,397 | 6.9% | 0.07 | 6 | \$17,447 | 82% | 0.0 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Lodging | Heat Pump | New | building | 5,397 | 6.9% | 0.07 | 6 | \$17,447 | 82% | 0.0 |
| FE-WPP | Adding window shade film | No shade film | Lodging | Heat Pump | Existing | building | 5,397 | 3.9% | 0.4 | 10 | \$66 | 12% | 4.8 |
| FE-WPP | Adding window shade film | No shade film | Lodging | Heat Pump | New | building | 5,397 | 3.9% | 0.4 | 10 | \$66 | 12% | 4.8 |
| FE-WPP | Adding window shade screen | No shade screen | Lodging | Heat Pump | Existing | building | 5,397 | 0.3% | 0.01 | 10 | \$8.5 | 12% | 1.5 |
| FE-WPP | Adding window shade screen | No shade screen | Lodging | Heat Pump | New | building | 5,397 | 0.3% | 0.01 | 10 | \$8.5 | 12% | 1.5 |
| FE-WPP | Automated control system | Manual Controls | Lodging | Heat Pump | Existing | building | 5,397 | 17% | 0.2 | 15 | \$5,909 | 51% | 0.1 |
| FE-WPP | Automated control system | Manual Controls | Lodging | Heat Pump | New | building | 5,397 | 17% | 0.2 | 15 | \$5,909 | 94% | 0.1 |
| FE-WPP | Ceiling Insulations (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Lodging | Heat Pump | Existing | building | 5,397 | 3.3% | 0.03 | 15 | \$23,552 | 71% | 0.0 |
| FE-WPP | Ceiling Insulations (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Lodging | Heat Pump | New | building | 5,397 | 1.1% | 0.01 | 15 | \$22,387 | 94% | 0.0 |
| FE-WPP | Commercial energy recovery ventilation systems | No Commercial Recovery System | Lodging | Heat Pump | Existing | building | 5,397 | 16% | 0.2 | 14 | \$332,472 | 71% | 0.0 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Lodging | Heat Pump | Existing | building | 5,397 | 4.0% | 0.04 | 15 | \$43 | 12% | 3.2 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Lodging | Heat Pump | New | building | 5,397 | 4.0% | 0.04 | 15 | \$43 | 6% | 3.2 |
| FE-WPP | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Lodging | Heat Pump | Early | heat pump | 4,660 | 12% | 0.05 | 15 | \$4,070 | 83% | 0.1 |
| FE-WPP | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Lodging | Heat Pump | New | heat pump | 4,475 | 7.9% | 0.03 | 15 | \$1,097 | 83% | 0.2 |
| FE-WPP | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Lodging | Heat Pump | ROB | heat pump | 4,475 | 7.9% | 0.03 | 15 | \$1,097 | 83% | 0.2 |
| FE-WPP | Facility Commissioning | No Facility Commissioning | Lodging | Heat Pump | New | building | 5,397 | 16% | 0.2 | 10 | \$2,292 | 89% | 0.2 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Lodging | Heat Pump | Existing | building | 5,397 | 7.0% | 0.07 | 15 | \$23,941 | 25% | 0.0 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Lodging | Heat Pump | New | building | 5,397 | 7.0% | 0.07 | 15 | \$23,941 | 35% | 0.0 |
| FE-WPP | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Lodging | Heat Pump | Early | heat pump | 47,434 | 15% | 0.6 | 15 | \$91,117 | 19% | 0.0 |
| FE-WPP | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Lodging | Heat Pump | New | heat pump | 45,989 | 12% | 0.5 | 15 | \$33,927 | 19% | 0.1 |
| FE-WPP | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Lodging | Heat Pump | ROB | heat pump | 45,989 | 12% | 0.5 | 15 | \$33,927 | 19% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|--|--|---------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Lodging | Heat Pump | Early | heat pump | 47,434 | 15% | 0.6 | 15 | \$58,356 | 19% | 0.1 |
| FE-WPP | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Lodging | Heat Pump | New | heat pump | 45,989 | 12% | 0.5 | 15 | \$1,167 | 19% | 2.5 |
| FE-WPP | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Lodging | Heat Pump | ROB | heat pump | 45,989 | 12% | 0.5 | 15 | \$1,167 | 19% | 2.5 |
| FE-WPP | Hi Eff HVAC System Design | No HVAC Design | Lodging | Heat Pump | New | building | 5,397 | 7.3% | 0.07 | 10 | \$65,588 | 51% | 0.0 |
| FE-WPP | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Lodging | Heat Pump | Early | heat pump | 12,425 | 16% | 0.2 | 12 | \$4,298 | 81% | 0.2 |
| FE-WPP | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Lodging | Heat Pump | New | heat pump | 11,935 | 12% | 0.1 | 12 | \$852 | 81% | 0.8 |
| FE-WPP | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Lodging | Heat Pump | ROB | heat pump | 11,935 | 12% | 0.1 | 12 | \$852 | 81% | 0.8 |
| FE-WPP | Hotel Occupancy Sensor | HVAC system w/out Occupancy Sensors | Lodging | Heat Pump | Existing | building | 5,397 | 3.5% | 0.04 | 15 | \$11,644 | 89% | 0.0 |
| FE-WPP | Hotel Occupancy Sensor | HVAC system w/out Occupancy Sensors | Lodging | Heat Pump | New | building | 5,397 | 3.5% | 0.04 | 15 | \$11,644 | 94% | 0.0 |
| FE-WPP | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Lodging | Heat Pump | Existing | building | 5,397 | 5.0% | 0.02 | 5 | \$90 | 51% | 0.7 |
| FE-WPP | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Lodging | Heat Pump | New | building | 5,397 | 5.0% | 0.02 | 5 | \$90 | 51% | 0.7 |
| FE-WPP | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Lodging | Heat Pump | Existing | building | 5,397 | 3.5% | 0.04 | 10 | \$2,292 | 81% | 0.0 |
| FE-WPP | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Lodging | Heat Pump | New | building | 5,397 | 3.5% | 0.04 | 10 | \$2,292 | 81% | 0.0 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Lodging | Heat Pump | Existing | building | 5,397 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.2 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Lodging | Heat Pump | New | building | 5,397 | 2.1% | 0.02 | 11 | \$146 | 49% | 0.4 |
| FE-WPP | Re-Commissioning (Existing Construction) | No Re-Commissioning | Lodging | Heat Pump | Existing | building | 5,397 | 16% | 0.2 | 5 | \$12,530 | 86% | 0.0 |
| FE-WPP | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Lodging | Heat Pump | New | measure | 763,332 | 2.0% | 1.7 | 13 | \$96,095 | 43% | 0.1 |
| FE-WPP | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Lodging | Heat Pump | ROB | measure | 763,332 | 2.0% | 1.7 | 13 | \$96,095 | 43% | 0.1 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Lodging | Heat Pump | Existing | building | 5,397 | 8.0% | 0.08 | 15 | \$6,019 | 26% | 0.0 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Lodging | Heat Pump | New | building | 5,397 | 0.2% | 0.00 | 15 | \$4,617 | 94% | 0.0 |
| FE-WPP | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Lodging | Heat Pump | Early | heat pump | 20,230 | 37% | 0.6 | 15 | \$35,347 | 28% | 0.1 |
| FE-WPP | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Lodging | Heat Pump | New | heat pump | 19,409 | 34% | 0.6 | 15 | \$15,739 | 28% | 0.2 |
| FE-WPP | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Lodging | Heat Pump | ROB | heat pump | 19,409 | 34% | 0.6 | 15 | \$15,739 | 28% | 0.2 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Lodging | High Bay Lighting | Early | Fixture | 754 | 9.6% | 0.01 | 13 | \$850 | 39% | 0.0 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Lodging | High Bay Lighting | Early | Fixture | 753 | 9.5% | 0.01 | 13 | \$850 | 28% | 0.0 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Lodging | High Bay Lighting | Early | Fixture | 1,162 | 41% | 0.07 | 13 | \$850 | 36% | 0.3 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Lodging | High Bay Lighting | New | Fixture | 573 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Lodging | High Bay Lighting | New | Fixture | 533 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Lodging | High Bay Lighting | New | Fixture | 883 | 41% | 0.05 | 13 | \$397 | 36% | 0.5 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Lodging | High Bay Lighting | ROB | Fixture | 754 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Lodging | High Bay Lighting | ROB | Fixture | 701 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Lodging | High Bay Lighting | ROB | Fixture | 1,162 | 41% | 0.07 | 13 | \$397 | 36% | 0.7 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Lodging | High Bay Lighting | Early | Fixture | 1,463 | 19% | 0.04 | 13 | \$851 | 38% | 0.2 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Lodging | High Bay Lighting | Early | Fixture | 1,481 | 20% | 0.04 | 13 | \$851 | 38% | 0.2 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | Early | Fixture | 4,309 | 73% | 0.5 | 13 | \$851 | 38% | 2.0 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Lodging | High Bay Lighting | New | Fixture | 1,112 | 19% | 0.03 | 13 | \$372 | 38% | 0.3 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | New | Fixture | 3,275 | 73% | 0.4 | 13 | \$383 | 38% | 3.4 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Lodging | High Bay Lighting | ROB | Fixture | 1,463 | 19% | 0.04 | 13 | \$372 | 38% | 0.4 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | ROB | Fixture | 4,309 | 73% | 0.5 | 13 | \$383 | 38% | 4.5 |
| FE-WPP | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Lodging | High Bay Lighting | Early | Fixture | 1,463 | 25% | 0.05 | 13 | \$554 | 29% | 0.4 |
| FE-WPP | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Lodging | High Bay Lighting | Early | Fixture | 1,436 | 23% | 0.05 | 13 | \$554 | 28% | 0.3 |
| FE-WPP | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | Early | Fixture | 4,309 | 74% | 0.5 | 13 | \$554 | 36% | 3.2 |
| FE-WPP | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Lodging | High Bay Lighting | New | Fixture | 1,112 | 25% | 0.04 | 13 | \$75 | 29% | 2.0 |
| FE-WPP | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | New | Fixture | 3,275 | 74% | 0.4 | 13 | \$86 | 36% | 15.6 |
| FE-WPP | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Lodging | High Bay Lighting | ROB | Fixture | 1,463 | 25% | 0.05 | 13 | \$75 | 29% | 2.7 |
| FE-WPP | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | ROB | Fixture | 4,309 | 74% | 0.5 | 13 | \$86 | 36% | 20.6 |
| FE-WPP | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Lodging | High Bay Lighting | Early | Fixture | 381 | 0.2% | 0.00 | 13 | \$835 | 38% | 0.0 |
| FE-WPP | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Lodging | High Bay Lighting | Early | Fixture | 822 | 54% | 0.07 | 13 | \$835 | 38% | 0.3 |
| FE-WPP | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Lodging | High Bay Lighting | New | Fixture | 625 | 54% | 0.05 | 13 | \$382 | 38% | 0.5 |
| FE-WPP | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Lodging | High Bay Lighting | ROB | Fixture | 822 | 54% | 0.07 | 13 | \$382 | 38% | 0.6 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Lodging | High Bay Lighting | Early | Fixture | 1,864 | 18% | 0.05 | 13 | \$487 | 25% | 0.4 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Lodging | High Bay Lighting | Early | Fixture | 1,949 | 22% | 0.06 | 13 | \$487 | 28% | 0.5 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | Early | Fixture | 4,309 | 65% | 0.4 | 13 | \$487 | 36% | 3.1 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Lodging | High Bay Lighting | New | Fixture | 1,417 | 18% | 0.04 | 13 | \$16 | 25% | 8.7 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | New | Fixture | 3,275 | 65% | 0.3 | 13 | \$18 | 36% | 63.2 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Lodging | High Bay Lighting | ROB | Fixture | 1,864 | 18% | 0.05 | 13 | \$16 | 25% | 11.5 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | ROB | Fixture | 4,309 | 65% | 0.4 | 13 | \$18 | 36% | 83.2 |
| FE-WPP | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Lodging | High Bay Lighting | Early | Fixture | 1,864 | 1.5% | 0.00 | 13 | \$557 | 19% | 0.0 |
| FE-WPP | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Lodging | High Bay Lighting | Early | Fixture | 1,919 | 4.3% | 0.01 | 13 | \$557 | 19% | 0.1 |
| FE-WPP | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | Early | Fixture | 4,309 | 57% | 0.4 | 13 | \$557 | 19% | 2.4 |
| FE-WPP | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Lodging | High Bay Lighting | New | Fixture | 1,417 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| FE-WPP | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | New | Fixture | 3,275 | 57% | 0.3 | 13 | \$88 | 19% | 11.7 |
| FE-WPP | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Lodging | High Bay Lighting | ROB | Fixture | 1,864 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.2 |
| FE-WPP | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | ROB | Fixture | 4,309 | 57% | 0.4 | 13 | \$88 | 19% | 15.4 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Lodging | High Bay Lighting | Early | Fixture | 791 | 29% | 0.02 | 13 | \$492 | 71% | 0.2 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Lodging | High Bay Lighting | Early | Fixture | 662 | 15% | 0.01 | 13 | \$492 | 95% | 0.1 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Lodging | High Bay Lighting | Early | Fixture | 983 | 43% | 0.04 | 13 | \$492 | 95% | 0.4 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|---|---------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Lodging | High Bay Lighting | Early | Fixture | 911 | 38% | 0.04 | 13 | \$492 | 95% | 0.4 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Lodging | High Bay Lighting | New | Fixture | 503 | 15% | 0.01 | 13 | \$25 | 95% | 1.6 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Lodging | High Bay Lighting | New | Fixture | 747 | 43% | 0.03 | 13 | \$51 | 95% | 3.2 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Lodging | High Bay Lighting | ROB | Fixture | 662 | 15% | 0.01 | 13 | \$25 | 95% | 2.1 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Lodging | High Bay Lighting | ROB | Fixture | 983 | 43% | 0.04 | 13 | \$51 | 95% | 4.2 |
| FE-WPP | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Lodging | High Bay Lighting | Early | lamp | 147 | 16% | 0.00 | 7 | \$7.7 | 99% | 1.1 |
| FE-WPP | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Lodging | High Bay Lighting | New | lamp | 87 | 13% | 0.00 | 7 | \$1.6 | 91% | 2.5 |
| FE-WPP | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Lodging | High Bay Lighting | ROB | lamp | 141 | 13% | 0.00 | 7 | \$1.6 | 91% | 4.0 |
| FE-WPP | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Lodging | High Bay Lighting | Early | Fixture | 4,409 | 23% | 0.2 | 13 | \$613 | 5% | 0.9 |
| FE-WPP | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Lodging | High Bay Lighting | Early | Fixture | 3,464 | 1.6% | 0.01 | 13 | \$613 | 28% | 0.1 |
| FE-WPP | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | Early | Fixture | 8,618 | 60% | 0.8 | 13 | \$613 | 18% | 4.7 |
| FE-WPP | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Lodging | High Bay Lighting | New | Fixture | 3,351 | 23% | 0.1 | 13 | \$96 | 5% | 4.3 |
| FE-WPP | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Lodging | High Bay Lighting | ROB | Fixture | 4,409 | 23% | 0.2 | 13 | \$96 | 5% | 5.7 |
| FE-WPP | Auto Off Time Switch | Lighting w/ No Controls | Lodging | High Bay Lighting | Existing | building | 682 | 24% | 0.2 | 8 | \$837 | 13% | 0.2 |
| FE-WPP | Auto Off Time Switch | Lighting w/ No Controls | Lodging | High Bay Lighting | New | building | 682 | 6.9% | 0.07 | 8 | \$837 | 0% | 0.1 |
| FE-WPP | Central Lighting Control System | Lighting w/ No Controls | Lodging | High Bay Lighting | Existing | building | 682 | 38% | 0.4 | 8 | \$837 | 13% | 0.3 |
| FE-WPP | Central Lighting Control System | Lighting w/ No Controls | Lodging | High Bay Lighting | New | building | 682 | 14% | 0.1 | 8 | \$837 | 13% | 0.1 |
| FE-WPP | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Lodging | High Bay Lighting | New | building | 682 | 10% | 0.1 | 15 | \$45,527 | 32% | 0.0 |
| FE-WPP | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Lodging | High Bay Lighting | New | building | 682 | 15% | 0.2 | 15 | \$113,817 | 32% | 0.0 |
| FE-WPP | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Lodging | High Bay Lighting | New | building | 682 | 30% | 0.3 | 15 | \$163,138 | 32% | 0.0 |
| FE-WPP | Indoor Daylight Sensors | Lighting w/ No Controls | Lodging | High Bay Lighting | Existing | building | 682 | 28% | 0.3 | 8 | \$4,117 | 13% | 0.1 |
| FE-WPP | Indoor Daylight Sensors | Lighting w/ No Controls | Lodging | High Bay Lighting | New | building | 682 | 4.1% | 0.04 | 8 | \$4,117 | 0% | 0.0 |
| FE-WPP | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Lodging | High Bay Lighting | Early | Fixture | 4,409 | 92% | 0.6 | 13 | \$1,916 | 95% | 1.2 |
| FE-WPP | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | Early | Fixture | 8,618 | 96% | 1.2 | 13 | \$1,916 | 95% | 2.4 |
| FE-WPP | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Lodging | High Bay Lighting | New | Fixture | 3,351 | 92% | 0.5 | 13 | \$1,468 | 95% | 1.2 |
| FE-WPP | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | New | Fixture | 6,550 | 96% | 0.9 | 13 | \$1,149 | 95% | 3.0 |
| FE-WPP | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Lodging | High Bay Lighting | ROB | Fixture | 4,409 | 92% | 0.6 | 13 | \$1,468 | 95% | 1.5 |
| FE-WPP | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | ROB | Fixture | 8,618 | 96% | 1.2 | 13 | \$1,149 | 95% | 4.0 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Lodging | High Bay Lighting | Early | Fixture | 1,463 | 67% | 0.1 | 13 | \$960 | 95% | 0.6 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Lodging | High Bay Lighting | Early | Fixture | 4,309 | 89% | 0.6 | 13 | \$960 | 95% | 2.2 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Lodging | High Bay Lighting | Early | Fixture | 1,183 | 59% | 0.1 | 13 | \$960 | 95% | 0.4 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Lodging | High Bay Lighting | New | Fixture | 1,112 | 67% | 0.1 | 13 | \$480 | 95% | 0.8 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Lodging | High Bay Lighting | New | Fixture | 3,275 | 89% | 0.4 | 13 | \$491 | 95% | 3.2 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Lodging | High Bay Lighting | New | Fixture | 899 | 59% | 0.08 | 13 | \$406 | 95% | 0.7 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Lodging | High Bay Lighting | ROB | Fixture | 1,463 | 67% | 0.1 | 13 | \$480 | 95% | 1.1 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Lodging | High Bay Lighting | ROB | Fixture | 4,309 | 89% | 0.6 | 13 | \$491 | 95% | 4.3 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Lodging | High Bay Lighting | ROB | Fixture | 1,183 | 59% | 0.1 | 13 | \$406 | 95% | 0.9 |
| FE-WPP | Occupancy Sensor | Lighting w/ No Controls | Lodging | High Bay Lighting | Existing | building | 682 | 24% | 0.2 | 8 | \$1,260 | 12% | 0.1 |
| FE-WPP | Occupancy Sensor | Lighting w/ No Controls | Lodging | High Bay Lighting | New | building | 682 | 6.9% | 0.07 | 8 | \$1,260 | 0% | 0.0 |
| FE-WPP | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Lodging | High Bay Lighting | Existing | building | 682 | 28% | 0.3 | 8 | \$4,117 | 12% | 0.1 |
| FE-WPP | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Lodging | High Bay Lighting | New | building | 682 | 4.1% | 0.04 | 8 | \$4,117 | 0% | 0.0 |
| FE-WPP | Time Clock Control | Lighting w/ No Controls | Lodging | High Bay Lighting | Existing | building | 682 | 28% | 0.3 | 8 | \$837 | 13% | 0.3 |
| FE-WPP | Time Clock Control | Lighting w/ No Controls | Lodging | High Bay Lighting | New | building | 682 | 4.0% | 0.04 | 8 | \$837 | 0% | 0.0 |
| FE-WPP | Auto Off Time Switch | Lighting w/ No Controls | Lodging | Lin. Fluor. Lighting | Existing | building | 31,686 | 24% | 0.2 | 8 | \$837 | 13% | 2.9 |
| FE-WPP | Auto Off Time Switch | Lighting w/ No Controls | Lodging | Lin. Fluor. Lighting | New | building | 31,686 | 7.0% | 0.07 | 8 | \$837 | 0% | 0.8 |
| FE-WPP | Central Lighting Control System | Lighting w/ No Controls | Lodging | Lin. Fluor. Lighting | Existing | building | 31,686 | 38% | 0.4 | 8 | \$837 | 12% | 4.5 |
| FE-WPP | Central Lighting Control System | Lighting w/ No Controls | Lodging | Lin. Fluor. Lighting | New | building | 31,686 | 14% | 0.1 | 8 | \$837 | 12% | 1.7 |
| FE-WPP | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Lodging | Lin. Fluor. Lighting | New | building | 31,686 | 10% | 0.1 | 15 | \$45,527 | 32% | 0.0 |
| FE-WPP | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Lodging | Lin. Fluor. Lighting | New | building | 31,686 | 15% | 0.2 | 15 | \$113,817 | 32% | 0.0 |
| FE-WPP | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Lodging | Lin. Fluor. Lighting | New | building | 31,686 | 30% | 0.3 | 15 | \$163,138 | 32% | 0.0 |
| FE-WPP | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Lodging | Lin. Fluor. Lighting | Early | Lamp | 295 | 38% | 0.02 | 7 | \$7.3 | 94% | 5.4 |
| FE-WPP | Indoor Daylight Sensors | Lighting w/ No Controls | Lodging | Lin. Fluor. Lighting | Existing | building | 31,686 | 28% | 0.3 | 8 | \$4,117 | 13% | 0.7 |
| FE-WPP | Indoor Daylight Sensors | Lighting w/ No Controls | Lodging | Lin. Fluor. Lighting | New | building | 31,686 | 4.1% | 0.04 | 8 | \$4,117 | 0% | 0.1 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | Early | Lamp | 88 | 19% | 0.00 | 14 | \$35 | 94% | 0.3 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 40W T12 Lamp, Magnetic Ballast | Lodging | Lin. Fluor. Lighting | Early | Lamp | 194 | 63% | 0.02 | 14 | \$35 | 94% | 2.1 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | Early | Lamp | 109 | 34% | 0.01 | 14 | \$35 | 94% | 0.6 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | Early | Lamp | 106 | 32% | 0.01 | 14 | \$35 | 94% | 0.6 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | New | Lamp | 67 | 19% | 0.00 | 14 | \$28 | 94% | 0.3 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | New | Lamp | 80 | 32% | 0.00 | 14 | \$29 | 94% | 0.5 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | New | Lamp | 83 | 34% | 0.00 | 14 | \$22 | 94% | 0.8 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | New | Lamp | 80 | 32% | 0.00 | 14 | \$29 | 94% | 0.5 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | ROB | Lamp | 88 | 19% | 0.00 | 14 | \$28 | 94% | 0.4 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | ROB | Lamp | 106 | 32% | 0.01 | 14 | \$29 | 94% | 0.7 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | ROB | Lamp | 109 | 34% | 0.01 | 14 | \$22 | 94% | 1.0 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | ROB | Lamp | 106 | 32% | 0.01 | 14 | \$29 | 94% | 0.7 |
| FE-WPP | Occupancy Sensor | Lighting w/ No Controls | Lodging | Lin. Fluor. Lighting | Existing | building | 31,686 | 24% | 0.2 | 8 | \$1,260 | 13% | 1.9 |
| FE-WPP | Occupancy Sensor | Lighting w/ No Controls | Lodging | Lin. Fluor. Lighting | New | building | 31,686 | 7.0% | 0.07 | 8 | \$1,260 | 0% | 0.6 |
| FE-WPP | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Lodging | Lin. Fluor. Lighting | Existing | building | 31,686 | 28% | 0.3 | 8 | \$4,117 | 12% | 0.7 |
| FE-WPP | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Lodging | Lin. Fluor. Lighting | New | building | 31,686 | 4.1% | 0.04 | 8 | \$4,117 | 0% | 0.1 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 40W T12 w/ Magnetic Ballast | Lodging | Lin. Fluor. Lighting | Early | Lamp | 295 | 54% | 0.03 | 7 | \$9.1 | 94% | 6.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|--|---------|---------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Escalator Motor Controller | Constant power control | Lodging | Motors | New | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 36% | 5.6 |
| FE-WPP | Escalator Motor Controller | Constant power control | Lodging | Motors | ROB | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 36% | 5.6 |
| FE-WPP | Fan Motor - correct sizing | Incorrect Fan Motor Sizing | Lodging | Motors | ROB | measure | 10,530 | 1.6% | 0.02 | 15 | \$50 | 92% | 2.0 |
| FE-WPP | Variable Speed Drive Control, 15HP | Existing Motors w/out VSD Drive | Lodging | Motors | Early | motor | 60,079 | 70% | 6.2 | 15 | \$731 | 86% | 35.5 |
| FE-WPP | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Lodging | Motors | New | motor | 58,787 | 71% | 6.2 | 15 | \$731 | 86% | 35.4 |
| FE-WPP | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Lodging | Motors | ROB | motor | 58,787 | 72% | 6.2 | 15 | \$731 | 86% | 35.5 |
| FE-WPP | Variable Speed Drive Control, 40HP | Existing Motors w/out VSD Drive | Lodging | Motors | Early | motor | 156,766 | 71% | 16.3 | 15 | \$4,666 | 86% | 14.6 |
| FE-WPP | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Lodging | Motors | New | motor | 154,933 | 71% | 16.3 | 15 | \$4,666 | 86% | 14.6 |
| FE-WPP | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Lodging | Motors | ROB | motor | 154,933 | 71% | 16.3 | 15 | \$4,666 | 86% | 14.6 |
| FE-WPP | Variable Speed Drive Control, 5HP | Existing Motors w/out VFD Drive | Lodging | Motors | Early | motor | 20,827 | 71% | 2.2 | 15 | \$2,243 | 86% | 4.1 |
| FE-WPP | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Lodging | Motors | New | motor | 20,362 | 72% | 2.1 | 15 | \$2,243 | 86% | 4.0 |
| FE-WPP | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Lodging | Motors | ROB | motor | 20,362 | 71% | 2.1 | 15 | \$2,243 | 86% | 4.0 |
| FE-WPP | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Lodging | Motors | Early | motor | 24,832 | 4.5% | 0.1 | 15 | \$268 | 40% | 2.5 |
| FE-WPP | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Lodging | Motors | New | motor | 24,832 | 4.5% | 0.1 | 15 | \$268 | 40% | 2.5 |
| FE-WPP | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Lodging | Motors | ROB | motor | 24,832 | 4.5% | 0.1 | 15 | \$268 | 40% | 2.5 |
| FE-WPP | VFD on Chilled Water Pump | Motor w/out VFD Drive | Lodging | Motors | Early | motor | 55,591 | 55% | 2.7 | 15 | \$2,903 | 86% | 5.8 |
| FE-WPP | VFD on Chilled Water Pump | Motor w/out VFD Drive | Lodging | Motors | New | motor | 54,551 | 55% | 2.7 | 15 | \$2,843 | 86% | 5.8 |
| FE-WPP | VFD on Chilled Water Pump | Motor w/out VFD Drive | Lodging | Motors | ROB | motor | 54,551 | 55% | 2.7 | 15 | \$2,843 | 86% | 5.8 |
| FE-WPP | VFD on Condenser Water Pump | Motor w/out VFD Drive | Lodging | Motors | Early | motor | 54,129 | 32% | 3.2 | 15 | \$2,903 | 86% | 3.8 |
| FE-WPP | VFD on Condenser Water Pump | Motor w/out VFD Drive | Lodging | Motors | New | motor | 53,116 | 33% | 3.1 | 15 | \$2,843 | 86% | 3.9 |
| FE-WPP | VFD on Condenser Water Pump | Motor w/out VFD Drive | Lodging | Motors | ROB | motor | 53,116 | 33% | 3.1 | 15 | \$2,843 | 86% | 3.9 |
| FE-WPP | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Lodging | Motors | Early | motor | 56,603 | 56% | 0.00 | 15 | \$2,903 | 86% | 5.2 |
| FE-WPP | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Lodging | Motors | New | motor | 55,544 | 57% | 0.00 | 15 | \$2,843 | 86% | 5.3 |
| FE-WPP | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Lodging | Motors | ROB | motor | 55,544 | 57% | 0.00 | 15 | \$2,843 | 86% | 5.3 |
| FE-WPP | VFD on HVAC Fan | Motor w/out VFD | Lodging | Motors | Early | motor | 56,640 | 70% | 3.4 | 15 | \$2,903 | 86% | 7.7 |
| FE-WPP | VFD on HVAC Fan | Motor w/out VFD | Lodging | Motors | New | motor | 55,580 | 72% | 3.3 | 15 | \$2,843 | 86% | 7.9 |
| FE-WPP | VFD on HVAC Fan | Motor w/out VFD | Lodging | Motors | ROB | motor | 55,580 | 72% | 3.3 | 15 | \$2,843 | 86% | 7.9 |
| FE-WPP | Elevators | Std. Eff Elevator | Lodging | Other | ROB | measure | 89,016 | 18% | 1.1 | 15 | \$3,382 | 81% | 2.6 |
| FE-WPP | Variable Speed Drives on Process Equipment | Constant speed control | Lodging | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 10.1 |
| FE-WPP | Variable Speed Drives on Process Equipment | Constant speed control | Lodging | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 10.1 |
| FE-WPP | Auto Off Time Switch | Lighting w/ No Controls | Lodging | Other Int. Lighting | Existing | building | 5,049 | 24% | 0.2 | 8 | \$837 | 13% | 0.6 |
| FE-WPP | Auto Off Time Switch | Lighting w/ No Controls | Lodging | Other Int. Lighting | New | building | 5,049 | 7.0% | 0.07 | 8 | \$837 | 0% | 0.2 |
| FE-WPP | Central Lighting Control System | Lighting w/ No Controls | Lodging | Other Int. Lighting | Existing | building | 5,049 | 38% | 0.4 | 8 | \$837 | 13% | 0.9 |
| FE-WPP | Central Lighting Control System | Lighting w/ No Controls | Lodging | Other Int. Lighting | New | building | 5,049 | 14% | 0.1 | 8 | \$837 | 13% | 0.3 |
| FE-WPP | Cold Cathode Screw-In Bulb | 40W Incandescent Bulb | Lodging | Other Int. Lighting | Early | lamp | 204 | 87% | 0.03 | 7 | \$30 | 14% | 2.0 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Lodging | Other Int. Lighting | Early | lamp | 146 | 81% | 0.02 | 7 | \$30 | 11% | 1.4 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Lodging | Other Int. Lighting | New | lamp | 111 | 81% | 0.01 | 7 | \$21 | 14% | 1.5 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Lodging | Other Int. Lighting | New | lamp | 111 | 81% | 0.01 | 7 | \$23 | 14% | 1.4 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Lodging | Other Int. Lighting | New | lamp | 111 | 81% | 0.01 | 7 | \$22 | 11% | 1.4 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Lodging | Other Int. Lighting | ROB | lamp | 146 | 81% | 0.02 | 7 | \$21 | 14% | 1.9 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Lodging | Other Int. Lighting | ROB | lamp | 146 | 81% | 0.02 | 7 | \$23 | 14% | 1.8 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Lodging | Other Int. Lighting | ROB | lamp | 146 | 81% | 0.02 | 7 | \$22 | 11% | 1.9 |
| FE-WPP | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Lodging | Other Int. Lighting | Early | lamp | 204 | 75% | 0.02 | 3 | \$73 | 24% | 0.3 |
| FE-WPP | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Lodging | Other Int. Lighting | New | fixture | 222 | 65% | 0.02 | 13 | \$29 | 28% | 2.8 |
| FE-WPP | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Lodging | Other Int. Lighting | New | lamp | 111 | 65% | 0.01 | 3 | \$29 | 28% | 0.4 |
| FE-WPP | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Lodging | Other Int. Lighting | ROB | fixture | 293 | 65% | 0.03 | 13 | \$29 | 24% | 3.7 |
| FE-WPP | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Lodging | Other Int. Lighting | ROB | lamp | 146 | 65% | 0.01 | 3 | \$29 | 24% | 0.6 |
| FE-WPP | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Lodging | Other Int. Lighting | Early | lamp | 204 | 75% | 0.02 | 3 | \$3.2 | 24% | 7.9 |
| FE-WPP | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Lodging | Other Int. Lighting | New | lamp | 111 | 65% | 0.01 | 3 | \$1.8 | 24% | 6.7 |
| FE-WPP | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Lodging | Other Int. Lighting | ROB | lamp | 146 | 65% | 0.01 | 3 | \$1.8 | 24% | 8.9 |
| FE-WPP | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Lodging | Other Int. Lighting | ROB | lamp | 146 | 65% | 0.01 | 3 | \$1.8 | 24% | 8.9 |
| FE-WPP | Exit Sign Retrofit: CFL replacing Incandescent | One 23W Single Sided Incandescent Exit Sign | Lodging | Other Int. Lighting | Early | exit sign | 130 | 42% | 0.01 | 15 | \$48 | 22% | 0.7 |
| FE-WPP | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Lodging | Other Int. Lighting | New | building | 5,049 | 10% | 0.1 | 15 | \$45,527 | 32% | 0.0 |
| FE-WPP | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Lodging | Other Int. Lighting | New | building | 5,049 | 15% | 0.2 | 15 | \$113,817 | 32% | 0.0 |
| FE-WPP | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Lodging | Other Int. Lighting | New | building | 5,049 | 30% | 0.3 | 15 | \$163,138 | 32% | 0.0 |
| FE-WPP | Indoor Daylight Sensors | Lighting w/ No Controls | Lodging | Other Int. Lighting | Existing | building | 5,049 | 28% | 0.3 | 8 | \$4,117 | 13% | 0.1 |
| FE-WPP | Indoor Daylight Sensors | Lighting w/ No Controls | Lodging | Other Int. Lighting | New | building | 5,049 | 4.1% | 0.04 | 8 | \$4,117 | 0% | 0.0 |
| FE-WPP | LED Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Lodging | Other Int. Lighting | Early | sign | 153 | 87% | 0.02 | 15 | \$48 | 16% | 1.7 |
| FE-WPP | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Lodging | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 1.8 |
| FE-WPP | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Lodging | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 1.8 |
| FE-WPP | LED Task Lighting/Screw-In | 1 15W CFL bulb | Lodging | Other Int. Lighting | Early | lamp | 42 | 33% | 0.00 | 9 | \$9.6 | 24% | 0.6 |
| FE-WPP | LED Task Lighting/Screw-In | 1 60W Incandescent Bulb | Lodging | Other Int. Lighting | Early | lamp | 167 | 83% | 0.02 | 9 | \$9.6 | 24% | 6.1 |
| FE-WPP | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Lodging | Other Int. Lighting | New | lamp | 91 | 77% | 0.01 | 9 | \$7.9 | 24% | 3.7 |
| FE-WPP | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Lodging | Other Int. Lighting | New | lamp | 91 | 77% | 0.01 | 9 | \$7.9 | 24% | 3.7 |
| FE-WPP | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Lodging | Other Int. Lighting | ROB | lamp | 120 | 77% | 0.01 | 9 | \$7.9 | 24% | 4.9 |
| FE-WPP | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Lodging | Other Int. Lighting | ROB | lamp | 120 | 77% | 0.01 | 9 | \$7.9 | 24% | 4.9 |
| FE-WPP | Occupancy Sensor | Lighting w/ No Controls | Lodging | Other Int. Lighting | Existing | building | 5,049 | 24% | 0.2 | 8 | \$1,260 | 12% | 0.4 |
| FE-WPP | Occupancy Sensor | Lighting w/ No Controls | Lodging | Other Int. Lighting | New | building | 5,049 | 7.0% | 0.07 | 8 | \$1,260 | 0% | 0.1 |
| FE-WPP | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Lodging | Other Int. Lighting | Existing | building | 5,049 | 28% | 0.3 | 8 | \$4,117 | 12% | 0.1 |
| FE-WPP | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Lodging | Other Int. Lighting | New | building | 5,049 | 4.1% | 0.04 | 8 | \$4,117 | 0% | 0.0 |
| FE-WPP | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Lodging | Other Int. Lighting | Early | exit sign | 130 | 100% | 0.02 | 15 | \$173 | 26% | 0.5 |
| FE-WPP | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Lodging | Other Int. Lighting | New | exit sign | 75 | 100% | 0.01 | 15 | \$148 | 31% | 0.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|---|---------|---------------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Lodging | Other Int. Lighting | ROB | exit sign | 75 | 100% | 0.01 | 15 | \$148 | 26% | 0.3 |
| FE-WPP | Time Clock Control | Lighting w/ No Controls | Lodging | Other Int. Lighting | Existing | building | 5,049 | 28% | 0.3 | 8 | \$837 | 13% | 0.7 |
| FE-WPP | Time Clock Control | Lighting w/ No Controls | Lodging | Other Int. Lighting | New | building | 5,049 | 4.1% | 0.04 | 8 | \$837 | 0% | 0.1 |
| FE-WPP | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Lodging | Plug Load | Existing | building | 2,038 | 46% | 0.5 | 5 | \$189 | 4% | 1.9 |
| FE-WPP | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Lodging | Plug Load | New | building | 2,038 | 46% | 0.5 | 5 | \$189 | 4% | 1.9 |
| FE-WPP | Data Center - Server/Storage Consolidation | No Consolidation | Lodging | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-WPP | Data Center - Server/Storage Consolidation | No Consolidation | Lodging | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-WPP | Data Center - Server/Storage Virtualization | No Virtualization | Lodging | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-WPP | Data Center - Server/Storage Virtualization | No Virtualization | Lodging | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-WPP | Energy Star - Scanners | Std Scanner | Lodging | Plug Load | New | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| FE-WPP | Energy Star - Scanners | Std Scanner | Lodging | Plug Load | ROB | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| FE-WPP | Energy Star Battery Charging System (for small cordless products) | Std. Battery Charging System | Lodging | Plug Load | ROB | measure | 593 | 2.3% | 0.2 | 5 | \$65 | 4% | 1.2 |
| FE-WPP | Energy Star Dishwasher | Existing Dishwasher units | Lodging | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,580 | 23% | 1.0 |
| FE-WPP | Energy Star Dishwasher | Standard Dishwasher unit | Lodging | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 23% | 3.1 |
| FE-WPP | Energy Star Dishwasher | Standard Dishwasher unit | Lodging | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 23% | 3.1 |
| FE-WPP | Energy Star External Power Adapter | Std. Power Adapter | Lodging | Plug Load | New | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| FE-WPP | Energy Star External Power Adapter | Std. Power Adapter | Lodging | Plug Load | ROB | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| FE-WPP | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Lodging | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 17% | 0.2 |
| FE-WPP | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Lodging | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 1.9 |
| FE-WPP | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Lodging | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 1.9 |
| FE-WPP | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Lodging | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 64% | 0.8 |
| FE-WPP | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Lodging | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 64% | 1.6 |
| FE-WPP | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Lodging | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 64% | 1.6 |
| FE-WPP | ENERGY STAR® Copiers | 10% Less Efficient Copier | Lodging | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 18% | 0.0 |
| FE-WPP | ENERGY STAR® Copiers | One Conventional Copier | Lodging | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| FE-WPP | ENERGY STAR® Copiers | One Conventional Copier | Lodging | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| FE-WPP | ENERGY STAR® desktop | Standard computer | Lodging | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 69% | 0.1 |
| FE-WPP | ENERGY STAR® desktop | Standard computer | Lodging | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.3 |
| FE-WPP | ENERGY STAR® desktop | Standard computer | Lodging | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.3 |
| FE-WPP | ENERGY STAR® Fax | 10% Less Efficient Fax | Lodging | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 15% | 0.0 |
| FE-WPP | ENERGY STAR® Fax | One Conventional Fax | Lodging | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| FE-WPP | ENERGY STAR® Fax | One Conventional Fax | Lodging | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| FE-WPP | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Lodging | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 70% | 0.0 |
| FE-WPP | ENERGY STAR® Monitors | One Conventional Monitor | Lodging | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| FE-WPP | ENERGY STAR® Monitors | One Conventional Monitor | Lodging | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| FE-WPP | ENERGY STAR® Printers | 10% Less Efficient Printer | Lodging | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 44% | 0.0 |
| FE-WPP | ENERGY STAR® Printers | One Conventional Printer | Lodging | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| FE-WPP | ENERGY STAR® Printers | One Conventional Printer | Lodging | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| FE-WPP | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Lodging | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 43% | 0.1 |
| FE-WPP | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Lodging | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.7 |
| FE-WPP | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Lodging | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.7 |
| FE-WPP | ENERGY STAR® Televisions | 10% Less Efficient Television | Lodging | Plug Load | Early | Unit | 280 | 38% | 0.01 | 6 | \$672 | 40% | 0.0 |
| FE-WPP | ENERGY STAR® Televisions | One Conventional Television | Lodging | Plug Load | New | Unit | 254 | 32% | 0.01 | 6 | \$206 | 40% | 0.1 |
| FE-WPP | ENERGY STAR® Televisions | One Conventional Television | Lodging | Plug Load | ROB | Unit | 254 | 32% | 0.01 | 6 | \$206 | 40% | 0.1 |
| FE-WPP | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Lodging | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 24% | 0.3 |
| FE-WPP | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Lodging | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.6 |
| FE-WPP | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Lodging | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.6 |
| FE-WPP | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Lodging | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 73% | 0.2 |
| FE-WPP | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Lodging | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 73% | 0.2 |
| FE-WPP | Network PC Power Management | No PC Power Management | Lodging | Plug Load | Existing | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 9.5 |
| FE-WPP | Network PC Power Management | No PC Power Management | Lodging | Plug Load | New | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 9.5 |
| FE-WPP | Smart Strip Plug Outlets | Standard plug strip/outlet | Lodging | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.3 |
| FE-WPP | Smart Strip Plug Outlets | Standard plug strip/outlet | Lodging | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.3 |
| FE-WPP | Smart Strip Plug Outlets | Standard plug strip/outlet | Lodging | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-WPP | Smart Strip Plug Outlets | Standard plug strip/outlet | Lodging | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-WPP | Smart Strip Plug Outlets | Standard plug strip/outlet | Lodging | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-WPP | Smart Strip Plug Outlets | Standard plug strip/outlet | Lodging | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-WPP | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Lodging | Plug Load | Existing | building | 2,038 | 46% | 0.5 | 5 | \$180 | 3% | 2.0 |
| FE-WPP | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Lodging | Plug Load | New | building | 2,038 | 46% | 0.5 | 5 | \$180 | 3% | 2.0 |
| FE-WPP | Air curtain technology | Strip plastic curtain | Lodging | Refrigeration | New | building | 7,639 | 6.8% | 0.07 | 8 | \$1,116 | 35% | 0.2 |
| FE-WPP | Air curtain technology | Strip plastic curtain | Lodging | Refrigeration | New | building | 7,805 | 6.8% | 0.07 | 8 | \$1,132 | 35% | 0.2 |
| FE-WPP | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Lodging | Refrigeration | Existing | building | 664 | 2.3% | 0.02 | 12 | \$70 | 11% | 0.3 |
| FE-WPP | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Lodging | Refrigeration | New | building | 664 | 2.3% | 0.02 | 12 | \$70 | 11% | 0.3 |
| FE-WPP | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Lodging | Refrigeration | Existing | building | 664 | 0.9% | 0.01 | 12 | \$70 | 11% | 0.1 |
| FE-WPP | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Lodging | Refrigeration | New | building | 664 | 0.9% | 0.01 | 12 | \$70 | 11% | 0.1 |
| FE-WPP | Auto Closer on Refrigerator Door | Door w/out Autocloser | Lodging | Refrigeration | Existing | building | 7,639 | 18% | 0.2 | 8 | \$803 | 40% | 0.6 |
| FE-WPP | Auto Closer on Refrigerator Door | Door w/out Autocloser | Lodging | Refrigeration | Existing | building | 7,805 | 9.1% | 0.09 | 8 | \$714 | 40% | 0.4 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|--|---------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Auto Closer on Refrigerator Door | Door w/out Autocloser | Lodging | Refrigeration | New | building | 7,639 | 18% | 0.2 | 8 | \$803 | 40% | 0.6 |
| FE-WPP | Auto Closer on Refrigerator Door | Door w/out Autocloser | Lodging | Refrigeration | New | building | 7,805 | 9.1% | 0.09 | 8 | \$714 | 40% | 0.4 |
| FE-WPP | Demand Hot Gas Defrost | Base Refrigeration System | Lodging | Refrigeration | Existing | measure | 664 | 3.0% | 0.03 | 10 | \$1,440 | 0% | 0.0 |
| FE-WPP | Demand Hot Gas Defrost | Base Refrigeration System | Lodging | Refrigeration | New | measure | 664 | 3.0% | 0.03 | 10 | \$1,440 | 0% | 0.0 |
| FE-WPP | Door Gasket- Freezer | Door w/out Gasket | Lodging | Refrigeration | Existing | building | 7,639 | 10% | 0.1 | 4 | \$82 | 29% | 1.9 |
| FE-WPP | Door Gasket- Freezer | Door w/out Gasket | Lodging | Refrigeration | New | building | 7,639 | 9.3% | 0.09 | 4 | \$82 | 29% | 1.7 |
| FE-WPP | Door Gasket- Refrigerator | Door w/out Gasket | Lodging | Refrigeration | Existing | building | 7,805 | 2.9% | 0.03 | 4 | \$99 | 45% | 0.5 |
| FE-WPP | Door Gasket- Refrigerator | Door w/out Gasket | Lodging | Refrigeration | New | building | 7,805 | 2.9% | 0.03 | 4 | \$99 | 45% | 0.5 |
| FE-WPP | Economizer for Walk-in Coolers | No Economizer | Lodging | Refrigeration | Early | measure | 16,150 | 6.6% | 0.1 | 10 | \$188 | 72% | 2.4 |
| FE-WPP | Economizer for Walk-in Coolers | No Economizer | Lodging | Refrigeration | Early | measure | 16,150 | 6.6% | 0.1 | 10 | \$188 | 72% | 2.4 |
| FE-WPP | Economizer for Walk-in Coolers | No Economizer | Lodging | Refrigeration | Early | measure | 16,150 | 6.6% | 0.1 | 10 | \$188 | 72% | 2.4 |
| FE-WPP | Economizer for Walk-in Coolers | No Economizer | Lodging | Refrigeration | New | measure | 16,150 | 6.6% | 0.1 | 10 | \$22 | 72% | 20.7 |
| FE-WPP | Economizer for Walk-in Coolers | No Economizer | Lodging | Refrigeration | New | measure | 16,150 | 6.6% | 0.1 | 10 | \$22 | 72% | 20.7 |
| FE-WPP | Economizer for Walk-in Coolers | No Economizer | Lodging | Refrigeration | New | measure | 16,150 | 6.6% | 0.1 | 10 | \$22 | 72% | 20.8 |
| FE-WPP | Economizer for Walk-in Coolers | No Economizer | Lodging | Refrigeration | ROB | measure | 16,150 | 6.6% | 0.1 | 10 | \$22 | 72% | 20.7 |
| FE-WPP | Economizer for Walk-in Coolers | No Economizer | Lodging | Refrigeration | ROB | measure | 16,150 | 6.6% | 0.1 | 10 | \$22 | 72% | 20.8 |
| FE-WPP | Economizer for Walk-in Coolers | No Economizer | Lodging | Refrigeration | ROB | measure | 16,150 | 6.6% | 0.1 | 10 | \$22 | 72% | 20.8 |
| FE-WPP | eCube | Refrigeration unit w/out eCube | Lodging | Refrigeration | Existing | building | 7,805 | 15% | 0.2 | 15 | \$601 | 57% | 1.1 |
| FE-WPP | eCube | Refrigeration unit w/out eCube | Lodging | Refrigeration | New | building | 7,805 | 15% | 0.2 | 15 | \$601 | 57% | 1.1 |
| FE-WPP | Efficient compressor motor | Base Refrigeration System - Grocery | Lodging | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| FE-WPP | Efficient compressor motor | Base Refrigeration System - Grocery | Lodging | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| FE-WPP | Efficient compressor motor | Base Refrigeration System - Grocery | Lodging | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| FE-WPP | Efficient compressor motor | Base Refrigeration System - Grocery | Lodging | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| FE-WPP | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Lodging | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.5 |
| FE-WPP | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Lodging | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| FE-WPP | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Lodging | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| FE-WPP | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Lodging | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.3 |
| FE-WPP | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Lodging | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.7 |
| FE-WPP | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Lodging | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.7 |
| FE-WPP | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Lodging | Refrigeration | Existing | building | 7,805 | 1.1% | 0.01 | 10 | \$369 | 77% | 0.1 |
| FE-WPP | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Lodging | Refrigeration | New | building | 7,805 | 1.1% | 0.01 | 10 | \$369 | 77% | 0.1 |
| FE-WPP | Floating head pressure controller | System w/out FHPC | Lodging | Refrigeration | Existing | building | 7,639 | 3.0% | 0.02 | 15 | \$8,682 | 41% | 0.0 |
| FE-WPP | Floating head pressure controller | System w/out FHPC | Lodging | Refrigeration | Existing | building | 664 | 15% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-WPP | Floating head pressure controller | System w/out FHPC | Lodging | Refrigeration | Existing | building | 7,805 | 1.0% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-WPP | Floating head pressure controller | System w/out FHPC | Lodging | Refrigeration | New | building | 7,639 | 3.0% | 0.02 | 15 | \$8,682 | 41% | 0.0 |
| FE-WPP | Floating head pressure controller | System w/out FHPC | Lodging | Refrigeration | New | building | 664 | 15% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-WPP | Floating head pressure controller | System w/out FHPC | Lodging | Refrigeration | New | building | 7,805 | 1.0% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-WPP | High Efficiency Commercial Freezer | Std. Commercial Freezer | Lodging | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 84% | 0.3 |
| FE-WPP | High Efficiency Commercial Freezer | Std. Commercial Freezer | Lodging | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 84% | 3.6 |
| FE-WPP | High Efficiency Commercial Freezer | Std. Commercial Freezer | Lodging | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 84% | 3.6 |
| FE-WPP | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Lodging | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 21% | 0.1 |
| FE-WPP | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Lodging | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 21% | 0.8 |
| FE-WPP | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Lodging | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 21% | 0.8 |
| FE-WPP | High Efficiency Ice Maker | Existing Standard Efficiency Ice Maker in Pennsylvania | Lodging | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 69% | 0.1 |
| FE-WPP | High Efficiency Ice Maker | Standard code minimum Ice Maker | Lodging | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| FE-WPP | High Efficiency Ice Maker | Standard code minimum Ice Maker | Lodging | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 69% | 0.2 |
| FE-WPP | High Efficiency Ice Making Head | Standard Ice Making Head | Lodging | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.6 |
| FE-WPP | High Efficiency Ice Making Head | Standard Ice Making Head | Lodging | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.5 |
| FE-WPP | High R-Value Glass Doors | Base Refrigeration System - Grocery | Lodging | Refrigeration | Existing | building | 664 | 0.7% | 0.01 | 10 | \$25 | 0% | 0.2 |
| FE-WPP | High R-Value Glass Doors | Base Refrigeration System - Grocery | Lodging | Refrigeration | New | building | 664 | 0.7% | 0.01 | 10 | \$25 | 0% | 0.2 |
| FE-WPP | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Lodging | Refrigeration | Early | Fixture | 373 | 56% | 0.02 | 8 | \$448 | 86% | 0.2 |
| FE-WPP | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Lodging | Refrigeration | New | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 86% | 0.3 |
| FE-WPP | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Lodging | Refrigeration | ROB | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 86% | 0.3 |
| FE-WPP | No-heat glass doors | Standard low-temp reach-in | Lodging | Refrigeration | Existing | building | 664 | 20% | 0.2 | 10 | \$2,329 | 8% | 0.1 |
| FE-WPP | No-heat glass doors | Standard low-temp reach-in | Lodging | Refrigeration | New | building | 664 | 20% | 0.2 | 10 | \$2,329 | 8% | 0.1 |
| FE-WPP | Quick acting freezer doors | Std. Freezer Doors | Lodging | Refrigeration | Existing | building | 7,639 | 13% | 0.1 | 10 | \$1,313 | 56% | 0.3 |
| FE-WPP | Quick acting freezer doors | Std. Freezer Doors | Lodging | Refrigeration | New | building | 7,639 | 13% | 0.1 | 10 | \$1,313 | 56% | 0.3 |
| FE-WPP | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Lodging | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 29% | 0.4 |
| FE-WPP | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Lodging | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 29% | 1.4 |
| FE-WPP | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Lodging | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 29% | 1.4 |
| FE-WPP | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 29% | 1.5 |
| FE-WPP | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 29% | 2.6 |
| FE-WPP | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 29% | 2.6 |
| FE-WPP | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 29% | 1.5 |
| FE-WPP | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 29% | 3.5 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|--|---------|-----------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 29% | 3.5 |
| FE-WPP | Refrigeration Commissioning | Non-commissioned refrigeration system | Lodging | Refrigeration | Existing | building | 16,607 | 9.5% | 0.10 | 3 | \$4,029 | 85% | 0.1 |
| FE-WPP | Refrigeration Commissioning | Non-commissioned refrigeration system | Lodging | Refrigeration | New | building | 16,607 | 9.5% | 0.10 | 3 | \$4,029 | 85% | 0.1 |
| FE-WPP | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Lodging | Refrigeration | Existing | building | 7,639 | 24% | 0.2 | 4 | \$100 | 22% | 3.6 |
| FE-WPP | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Lodging | Refrigeration | Existing | building | 7,805 | 4.1% | 0.04 | 4 | \$120 | 22% | 0.5 |
| FE-WPP | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Lodging | Refrigeration | New | building | 7,639 | 24% | 0.2 | 4 | \$100 | 22% | 3.6 |
| FE-WPP | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Lodging | Refrigeration | New | building | 7,805 | 4.1% | 0.04 | 4 | \$120 | 22% | 0.5 |
| FE-WPP | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Lodging | Refrigeration | Existing | building | 7,639 | 4.4% | 0.04 | 11 | \$140 | 79% | 1.1 |
| FE-WPP | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Lodging | Refrigeration | New | building | 7,639 | 4.4% | 0.04 | 11 | \$140 | 79% | 1.1 |
| FE-WPP | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Lodging | Refrigeration | Existing | building | 7,805 | 3.3% | 0.03 | 11 | \$140 | 79% | 0.8 |
| FE-WPP | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Lodging | Refrigeration | New | building | 7,805 | 3.3% | 0.03 | 11 | \$140 | 79% | 0.8 |
| FE-WPP | Vendor Miser | No Vendor Miser | Lodging | Refrigeration | Existing | machine | 664 | 12% | 0.1 | 8 | \$68 | 7% | 1.4 |
| FE-WPP | Vertical Night Covers | Display cases w/out night covers-High Temperature | Lodging | Refrigeration | Existing | building | 664 | 0.4% | 0.00 | 5 | \$52 | 9% | 0.0 |
| FE-WPP | Vertical Night Covers | Display cases w/out night covers-High Temperature | Lodging | Refrigeration | New | building | 664 | 0.4% | 0.00 | 5 | \$52 | 9% | 0.0 |
| FE-WPP | VSD Controlled Compressor | Compressor w/out VSD | Lodging | Refrigeration | Early | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 73% | 0.1 |
| FE-WPP | VSD Controlled Compressor | Compressor w/out VSD | Lodging | Refrigeration | New | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 73% | 0.1 |
| FE-WPP | VSD Controlled Compressor | Compressor w/out VSD | Lodging | Refrigeration | ROB | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 73% | 0.1 |
| FE-WPP | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Lodging | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$269 | 35% | 0.8 |
| FE-WPP | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Lodging | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$269 | 35% | 0.8 |
| FE-WPP | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Lodging | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 2.8 |
| FE-WPP | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Lodging | Refrigeration | New | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 2.7 |
| FE-WPP | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Lodging | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 2.8 |
| FE-WPP | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Lodging | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 2.7 |
| FE-WPP | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 35% | 2.1 |
| FE-WPP | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 35% | 2.0 |
| FE-WPP | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 4.6 |
| FE-WPP | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.3 |
| FE-WPP | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 4.6 |
| FE-WPP | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.3 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Lodging | Space Heating | Existing | building | 10,987 | 7.1% | 0.07 | 6 | \$17,447 | 82% | 0.0 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Lodging | Space Heating | New | building | 10,987 | 7.1% | 0.07 | 6 | \$17,447 | 82% | 0.0 |
| FE-WPP | Adding window shade film | No shade film | Lodging | Space Heating | Existing | building | 10,987 | 1.3% | 0.4 | 10 | \$134 | 13% | 2.2 |
| FE-WPP | Adding window shade film | No shade film | Lodging | Space Heating | New | building | 10,987 | 1.3% | 0.4 | 10 | \$134 | 13% | 2.2 |
| FE-WPP | Adding window shade screen | No shade screen | Lodging | Space Heating | Existing | building | 10,987 | 1.1% | 0.01 | 10 | \$52 | 13% | 0.9 |
| FE-WPP | Adding window shade screen | No shade screen | Lodging | Space Heating | New | building | 10,987 | 1.1% | 0.01 | 10 | \$52 | 13% | 0.9 |
| FE-WPP | Automated control system | Manual Controls | Lodging | Space Heating | Existing | building | 10,987 | 17% | 0.2 | 15 | \$12,028 | 51% | 0.1 |
| FE-WPP | Automated control system | Manual Controls | Lodging | Space Heating | New | building | 10,987 | 17% | 0.2 | 15 | \$12,028 | 94% | 0.1 |
| FE-WPP | Ceiling Insulations (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Lodging | Space Heating | Existing | building | 10,987 | 3.3% | 0.03 | 15 | \$23,552 | 71% | 0.0 |
| FE-WPP | Ceiling Insulations (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Lodging | Space Heating | New | building | 10,987 | 1.1% | 0.01 | 15 | \$22,387 | 94% | 0.0 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Lodging | Space Heating | Existing | building | 10,987 | 1.4% | 0.04 | 15 | \$87 | 20% | 1.2 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Lodging | Space Heating | New | building | 10,987 | 1.4% | 0.04 | 15 | \$87 | 10% | 1.2 |
| FE-WPP | Efficient Unit Heating System | Existing Unit Heaters in PA | Lodging | Space Heating | Early | heater | 71,298 | 23% | 0.1 | 15 | \$3,289 | 83% | 2.3 |
| FE-WPP | Efficient Unit Heating System | Std. Unit Heater | Lodging | Space Heating | New | heater | 63,277 | 13% | 0.06 | 15 | \$1,991 | 83% | 1.9 |
| FE-WPP | Efficient Unit Heating System | Std. Unit Heater | Lodging | Space Heating | ROB | heater | 63,277 | 13% | 0.06 | 15 | \$1,991 | 83% | 1.9 |
| FE-WPP | Facility Commissioning | No Facility Commissioning | Lodging | Space Heating | New | building | 10,987 | 16% | 0.2 | 10 | \$2,292 | 89% | 0.3 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Lodging | Space Heating | Existing | building | 10,987 | 7.1% | 0.07 | 15 | \$48,735 | 25% | 0.0 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Lodging | Space Heating | New | building | 10,987 | 7.1% | 0.07 | 15 | \$48,735 | 35% | 0.0 |
| FE-WPP | Hi Eff HVAC System Design | No HVAC Design | Lodging | Space Heating | New | building | 10,987 | 7.3% | 0.07 | 10 | \$65,588 | 51% | 0.0 |
| FE-WPP | Hotel Occupancy Sensor | HVAC system w/out Occupancy Sensors | Lodging | Space Heating | Existing | building | 10,987 | 3.5% | 0.04 | 15 | \$11,644 | 89% | 0.0 |
| FE-WPP | Hotel Occupancy Sensor | HVAC system w/out Occupancy Sensors | Lodging | Space Heating | New | building | 10,987 | 3.5% | 0.04 | 15 | \$11,644 | 94% | 0.0 |
| FE-WPP | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Lodging | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 0.9 |
| FE-WPP | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Lodging | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 0.9 |
| FE-WPP | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Lodging | Space Heating | Existing | building | 10,987 | 3.5% | 0.04 | 10 | \$7,735 | 81% | 0.0 |
| FE-WPP | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Lodging | Space Heating | New | building | 10,987 | 3.5% | 0.04 | 10 | \$7,735 | 81% | 0.0 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Lodging | Space Heating | Existing | building | 10,987 | 3.6% | 0.04 | 11 | \$286 | 49% | 0.6 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Lodging | Space Heating | New | building | 10,987 | 3.1% | 0.03 | 11 | \$146 | 49% | 1.0 |
| FE-WPP | Re-Commissioning (Existing Construction) | No Re-Commissioning | Lodging | Space Heating | Existing | building | 10,987 | 16% | 0.2 | 5 | \$12,530 | 86% | 0.0 |
| FE-WPP | VFD on Cooling Tower Fan | Motor w/out VFD | Lodging | Space Heating | Early | motor | 56,640 | 70% | 3.4 | 15 | \$2,843 | 88% | 7.5 |
| FE-WPP | VFD on Cooling Tower Fan | Motor w/out VFD | Lodging | Space Heating | New | motor | 55,580 | 72% | 3.3 | 15 | \$2,843 | 88% | 7.4 |
| FE-WPP | VFD on Cooling Tower Fan | Motor w/out VFD | Lodging | Space Heating | ROB | motor | 55,580 | 72% | 3.3 | 15 | \$2,843 | 88% | 7.4 |
| FE-WPP | Wall Insulations (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Lodging | Space Heating | Existing | building | 10,987 | 8.0% | 0.08 | 15 | \$6,019 | 26% | 0.1 |
| FE-WPP | Wall Insulations (Going upto R 21) | Code minimum Wall Insulations | Lodging | Space Heating | New | building | 10,987 | 0.2% | 0.00 | 15 | \$4,617 | 94% | 0.0 |
| FE-WPP | Green LED Traffic Light | Green Incandescent Traffic Light | Lodging | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 0% | 1.1 |
| FE-WPP | Green LED Traffic Light | Green Incandescent Traffic Light | Lodging | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|--|---|---------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Green LED Traffic Light | Green Incandescent Traffic Light | Lodging | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| FE-WPP | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Lodging | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 0% | 2.8 |
| FE-WPP | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Lodging | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-WPP | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Lodging | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-WPP | Induction Street Lighting | One 100W HPS Street Light Fixture | Lodging | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 0% | 0.3 |
| FE-WPP | Induction Street Lighting | One 100W HPS Street Light Fixture | Lodging | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.6 |
| FE-WPP | Induction Street Lighting | One 100W HPS Street Light Fixture | Lodging | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.6 |
| FE-WPP | LED Street Lighting | One 100W HPS Street Light | Lodging | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 0% | 0.2 |
| FE-WPP | LED Street Lighting | One 100W HPS Street Light | Lodging | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-WPP | LED Street Lighting | One 100W HPS Street Light | Lodging | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-WPP | Red LED Traffic Light | One Red Incandescent Traffic Light | Lodging | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 0% | 1.5 |
| FE-WPP | Red LED Traffic Light | One Red Incandescent Traffic Light | Lodging | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| FE-WPP | Red LED Traffic Light | One Red Incandescent Traffic Light | Lodging | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| FE-WPP | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Lodging | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 0% | 0.1 |
| FE-WPP | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Lodging | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-WPP | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Lodging | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-WPP | Demand controlled Circulating Systems | Constant circulation system | Lodging | Water Heating | Existing | building | 472 | 20% | 0.2 | 15 | \$86 | 59% | 2.5 |
| FE-WPP | Demand controlled Circulating Systems | Constant circulation system | Lodging | Water Heating | New | building | 472 | 20% | 0.2 | 15 | \$86 | 59% | 2.5 |
| FE-WPP | Drainwater Heat Recovery Water Heater | No heat recovery | Lodging | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.7 |
| FE-WPP | Drainwater Heat Recovery Water Heater | No heat recovery | Lodging | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.7 |
| FE-WPP | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Lodging | Water Heating | Existing | building | 472 | 5.9% | 0.06 | 12 | \$182 | 85% | 0.3 |
| FE-WPP | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Lodging | Water Heating | New | building | 472 | 5.9% | 0.06 | 12 | \$52 | 85% | 1.1 |
| FE-WPP | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Lodging | Water Heating | Early | water heater | 48,207 | 66% | 5.6 | 10 | \$2,375 | 68% | 6.2 |
| FE-WPP | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Lodging | Water Heating | Early | water heater | 48,207 | 66% | 5.6 | 10 | \$2,375 | 68% | 6.2 |
| FE-WPP | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Lodging | Water Heating | New | water heater | 48,207 | 66% | 5.6 | 10 | \$2,375 | 68% | 6.2 |
| FE-WPP | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Lodging | Water Heating | New | water heater | 48,207 | 66% | 5.6 | 10 | \$2,375 | 68% | 6.2 |
| FE-WPP | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Lodging | Water Heating | ROB | water heater | 46,868 | 65% | 5.4 | 10 | \$2,375 | 68% | 6.0 |
| FE-WPP | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Lodging | Water Heating | ROB | water heater | 46,868 | 65% | 5.4 | 10 | \$2,375 | 68% | 6.0 |
| FE-WPP | Heat Recovery Unit | Base Water Heating | Lodging | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.5 |
| FE-WPP | Heat Recovery Unit | Base Water Heating | Lodging | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.5 |
| FE-WPP | Heat Trap | No Heat Trap | Lodging | Water Heating | Existing | building | 472 | 21% | 0.2 | 11 | \$2.8 | 50% | 64.8 |
| FE-WPP | Heat Trap | No Heat Trap | Lodging | Water Heating | New | building | 472 | 21% | 0.2 | 11 | \$0.9 | 50% | 210.4 |
| FE-WPP | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Lodging | Water Heating | Early | water heater | 48,207 | 5.9% | 0.5 | 15 | \$614 | 79% | 3.0 |
| FE-WPP | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Lodging | Water Heating | Early | water heater | 48,207 | 5.9% | 0.5 | 15 | \$614 | 79% | 3.0 |
| FE-WPP | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Lodging | Water Heating | New | water heater | 46,868 | 3.2% | 0.3 | 15 | \$614 | 79% | 1.6 |
| FE-WPP | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Lodging | Water Heating | New | water heater | 46,868 | 3.2% | 0.3 | 15 | \$614 | 79% | 1.6 |
| FE-WPP | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Lodging | Water Heating | ROB | water heater | 46,868 | 3.2% | 0.3 | 15 | \$614 | 79% | 1.6 |
| FE-WPP | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Lodging | Water Heating | ROB | water heater | 46,868 | 3.2% | 0.3 | 15 | \$614 | 79% | 1.6 |
| FE-WPP | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Lodging | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$466 | 81% | 36.2 |
| FE-WPP | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Lodging | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 18.9 |
| FE-WPP | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Lodging | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 18.9 |
| FE-WPP | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Lodging | Water Heating | Existing | building | 472 | 1.3% | 0.01 | 13 | \$8.7 | 68% | 1.5 |
| FE-WPP | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Lodging | Water Heating | New | building | 472 | 1.3% | 0.01 | 13 | \$8.7 | 0% | 1.5 |
| FE-WPP | Hot Water Circulation Pump Time-Clock | Constant circulation system | Lodging | Water Heating | Existing | building | 472 | 5.3% | 0.05 | 10 | \$1.9 | 72% | 22.8 |
| FE-WPP | Hot Water Circulation Pump Time-Clock | Constant circulation system | Lodging | Water Heating | New | building | 472 | 5.3% | 0.05 | 10 | \$1.9 | 72% | 22.8 |
| FE-WPP | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Lodging | Water Heating | Existing | building | 472 | 0.2% | 0.00 | 7 | \$22 | 78% | 0.1 |
| FE-WPP | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Lodging | Water Heating | New | building | 472 | 0.2% | 0.00 | 7 | \$0.5 | 78% | 2.5 |
| FE-WPP | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Lodging | Water Heating | Existing | building | 472 | 4.2% | 0.04 | 5 | \$300 | 20% | 0.1 |
| FE-WPP | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Lodging | Water Heating | New | building | 472 | 2.8% | 0.03 | 5 | \$194 | 20% | 0.1 |
| FE-WPP | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Lodging | Water Heating | Existing | building | 472 | 6.5% | 0.07 | 9 | \$625 | 85% | 0.1 |
| FE-WPP | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Lodging | Water Heating | New | building | 472 | 6.5% | 0.07 | 9 | \$150 | 85% | 0.3 |
| FE-WPP | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Lodging | Water Heating | Early | water heater | 48,207 | 52% | 2.0 | 15 | \$12,444 | 32% | 1.1 |
| FE-WPP | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Lodging | Water Heating | New | water heater | 46,868 | 51% | 1.9 | 15 | \$12,444 | 32% | 1.1 |
| FE-WPP | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Lodging | Water Heating | ROB | water heater | 46,868 | 51% | 1.9 | 15 | \$12,444 | 32% | 1.1 |
| FE-WPP | Ultrasonic Faucet Control | Manual Faucet Control | Lodging | Water Heating | Existing | building | 472 | 3.0% | 0.03 | 10 | \$82 | 77% | 0.3 |
| FE-WPP | Ultrasonic Faucet Control | Manual Faucet Control | Lodging | Water Heating | New | building | 472 | 3.0% | 0.03 | 10 | \$82 | 77% | 0.3 |
| FE-WPP | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Lodging | Water Heating | Existing | building | 472 | 2.2% | 0.02 | 4 | \$28 | 83% | 0.3 |
| FE-WPP | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Lodging | Water Heating | New | building | 472 | 2.3% | 0.02 | 4 | \$28 | 83% | 0.3 |
| FE-WPP | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Misc. | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.0 |
| FE-WPP | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Misc. | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.0 |
| FE-WPP | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Misc. | Cooking | Early | steamer | 51 | 46% | 0.00 | 12 | \$5,053 | 81% | 0.0 |
| FE-WPP | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Misc. | Cooking | New | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-WPP | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Misc. | Cooking | ROB | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-WPP | Electric combination oven (Energy Star) | Standard Oven | Misc. | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.8 |
| FE-WPP | Electric combination oven (Energy Star) | Standard Oven | Misc. | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.8 |
| FE-WPP | Electric Convection Oven | Conventional convection oven w/ 65% efficiency | Misc. | Cooking | Early | oven | 8,641 | 37% | 0.6 | 12 | \$4,119 | 81% | 0.4 |
| FE-WPP | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Misc. | Cooking | New | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.7 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|--|---|---------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Misc. | Cooking | ROB | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.7 |
| FE-WPP | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Misc. | Cooking | Early | fryer | 6,105 | 23% | 0.3 | 12 | \$9,241 | 86% | 0.1 |
| FE-WPP | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Misc. | Cooking | New | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| FE-WPP | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Misc. | Cooking | ROB | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| FE-WPP | High Efficiency Griddle (ENERGY STAR) | Efficiency code minimum griddle (70% eff) | Misc. | Cooking | Early | griddle | 11,317 | 65% | 1.4 | 12 | \$4,977 | 86% | 0.8 |
| FE-WPP | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Misc. | Cooking | New | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.1 |
| FE-WPP | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Misc. | Cooking | ROB | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.1 |
| FE-WPP | High Efficiency Induction Cooking | Standard Cooking | Misc. | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-WPP | High Efficiency Induction Cooking | Standard Cooking | Misc. | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Misc. | Cooling Central | Existing | building | 2,460 | 7.0% | 0.07 | 6 | \$12,324 | 82% | 0.0 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Misc. | Cooling Central | New | building | 2,460 | 7.0% | 0.07 | 6 | \$12,324 | 82% | 0.0 |
| FE-WPP | Adding window shade film | No shade film | Misc. | Cooling Central | Existing | building | 2,460 | 1.3% | 0.4 | 10 | \$30 | 13% | 8.5 |
| FE-WPP | Adding window shade film | No shade film | Misc. | Cooling Central | New | building | 2,460 | 1.3% | 0.4 | 10 | \$30 | 13% | 8.5 |
| FE-WPP | Adding window shade screen | No shade screen | Misc. | Cooling Central | Existing | building | 2,460 | 1.1% | 0.01 | 10 | \$12 | 13% | 1.4 |
| FE-WPP | Adding window shade screen | No shade screen | Misc. | Cooling Central | New | building | 2,460 | 1.0% | 0.01 | 10 | \$12 | 13% | 1.3 |
| FE-WPP | Automated control system | Manual Controls | Misc. | Cooling Central | Existing | building | 2,460 | 17% | 0.2 | 15 | \$2,694 | 51% | 0.1 |
| FE-WPP | Automated control system | Manual Controls | Misc. | Cooling Central | New | building | 2,460 | 17% | 0.2 | 15 | \$2,694 | 94% | 0.1 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Misc. | Cooling Central | Existing | building | 2,460 | 4.9% | 0.05 | 15 | \$17,130 | 71% | 0.0 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Misc. | Cooling Central | New | building | 2,460 | 1.7% | 0.02 | 15 | \$16,283 | 94% | 0.0 |
| FE-WPP | Chiller Tuneup/Diagnostics | No tuneup | Misc. | Cooling Central | Existing | building | 2,460 | 8.0% | 0.08 | 10 | \$6,283 | 59% | 0.0 |
| FE-WPP | Chiller Tuneup/Diagnostics | No tuneup | Misc. | Cooling Central | New | building | 2,460 | 8.0% | 0.08 | 10 | \$6,283 | 59% | 0.0 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Misc. | Cooling Central | Existing | building | 2,460 | 1.4% | 0.04 | 15 | \$20 | 20% | 2.6 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Misc. | Cooling Central | New | building | 2,460 | 1.4% | 0.04 | 15 | \$20 | 10% | 2.6 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Misc. | Cooling Central | Existing | building | 2,460 | 7.0% | 0.07 | 15 | \$10,914 | 25% | 0.0 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Misc. | Cooling Central | New | building | 2,460 | 7.0% | 0.07 | 15 | \$10,914 | 35% | 0.0 |
| FE-WPP | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Misc. | Cooling Central | Early | ton | 5,094 | 24% | 0.4 | 15 | \$108,550 | 88% | 0.0 |
| FE-WPP | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Misc. | Cooling Central | New | ton | 4,164 | 6.7% | 0.10 | 15 | \$12,927 | 88% | 0.0 |
| FE-WPP | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Misc. | Cooling Central | ROB | ton | 4,164 | 6.7% | 0.10 | 15 | \$12,927 | 88% | 0.0 |
| FE-WPP | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Misc. | Cooling Central | Early | ton | 7,611 | 23% | 0.6 | 15 | \$140,105 | 88% | 0.0 |
| FE-WPP | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Misc. | Cooling Central | New | ton | 6,124 | 4.8% | 0.1 | 15 | \$9,336 | 88% | 0.0 |
| FE-WPP | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Misc. | Cooling Central | ROB | ton | 6,124 | 4.8% | 0.1 | 15 | \$9,336 | 88% | 0.0 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Misc. | Cooling Central | Early | ton | 62,308 | 26% | 5.6 | 15 | \$105,354 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Misc. | Cooling Central | New | ton | 54,288 | 15% | 2.8 | 15 | \$30,530 | 88% | 0.2 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Misc. | Cooling Central | ROB | ton | 54,288 | 15% | 2.8 | 15 | \$30,530 | 88% | 0.2 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Misc. | Cooling Central | Early | ton | 93,320 | 23% | 7.4 | 15 | \$154,107 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Misc. | Cooling Central | New | ton | 85,726 | 16% | 4.8 | 15 | \$27,646 | 88% | 0.4 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Misc. | Cooling Central | ROB | ton | 93,320 | 23% | 7.4 | 15 | \$27,646 | 88% | 0.6 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Misc. | Cooling Central | Early | ton | 154,988 | 23% | 12.2 | 15 | \$302,924 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Misc. | Cooling Central | New | ton | 140,275 | 14% | 7.0 | 15 | \$115,432 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Misc. | Cooling Central | ROB | ton | 154,988 | 23% | 12.2 | 15 | \$115,432 | 88% | 0.2 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Misc. | Cooling Central | Early | ton | 185,985 | 23% | 14.6 | 15 | \$350,154 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Misc. | Cooling Central | New | ton | 168,330 | 14% | 8.5 | 15 | \$120,406 | 88% | 0.2 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Misc. | Cooling Central | ROB | ton | 185,985 | 23% | 14.6 | 15 | \$120,406 | 88% | 0.3 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Misc. | Cooling Central | Early | ton | 41,225 | 29% | 4.2 | 15 | \$83,632 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Misc. | Cooling Central | New | ton | 32,011 | 8.9% | 1.0 | 15 | \$40,211 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Misc. | Cooling Central | ROB | ton | 41,225 | 29% | 4.2 | 15 | \$40,211 | 88% | 0.2 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Misc. | Cooling Central | Early | ton | 70,835 | 35% | 8.6 | 15 | \$132,173 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Misc. | Cooling Central | New | ton | 52,831 | 13% | 2.3 | 15 | \$39,556 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Misc. | Cooling Central | ROB | ton | 52,831 | 13% | 2.3 | 15 | \$39,556 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Misc. | Cooling Central | Early | ton | 118,265 | 39% | 16.1 | 15 | \$187,029 | 88% | 0.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|--|---|---------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Misc. | Cooling Central | New | ton | 84,321 | 15% | 4.3 | 15 | \$33,554 | 88% | 0.3 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Misc. | Cooling Central | ROB | ton | 118,265 | 39% | 16.1 | 15 | \$33,554 | 88% | 1.1 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Misc. | Cooling Central | Early | ton | 20,695 | 30% | 2.1 | 15 | \$32,398 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Misc. | Cooling Central | New | ton | 16,396 | 11% | 0.6 | 15 | \$7,188 | 88% | 0.2 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Misc. | Cooling Central | ROB | ton | 20,695 | 30% | 2.1 | 15 | \$7,188 | 88% | 0.7 |
| FE-WPP | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Misc. | Cooling Central | Existing | building | 2,460 | 2.2% | 0.02 | 10 | \$41,718 | 81% | 0.0 |
| FE-WPP | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Misc. | Cooling Central | New | building | 2,460 | 2.2% | 0.02 | 10 | \$41,718 | 81% | 0.0 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Misc. | Cooling Central | Existing | building | 2,460 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.1 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Misc. | Cooling Central | New | building | 2,460 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.2 |
| FE-WPP | Re-Commissioning (Existing Construction) | No Re-Commissioning | Misc. | Cooling Central | Existing | building | 2,460 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Misc. | Cooling Central | Existing | building | 2,460 | 14% | 0.1 | 15 | \$5,133 | 26% | 0.1 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Misc. | Cooling Central | New | building | 2,460 | 0.4% | 0.00 | 15 | \$3,937 | 94% | 0.0 |
| FE-WPP | <65k BTU/hr 14 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Misc. | Cooling Unitary | Early | ton | 2,614 | 16% | 0.2 | 15 | \$1,545 | 29% | 0.3 |
| FE-WPP | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Misc. | Cooling Unitary | New | ton | 2,368 | 7.1% | 0.09 | 15 | \$339 | 29% | 0.5 |
| FE-WPP | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Misc. | Cooling Unitary | ROB | ton | 2,368 | 7.1% | 0.09 | 15 | \$339 | 29% | 0.5 |
| FE-WPP | <65k BTU/hr 15 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Misc. | Cooling Unitary | Early | ton | 2,614 | 22% | 0.3 | 15 | \$1,821 | 30% | 0.3 |
| FE-WPP | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Misc. | Cooling Unitary | New | ton | 2,368 | 13% | 0.2 | 15 | \$714 | 30% | 0.4 |
| FE-WPP | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Misc. | Cooling Unitary | ROB | ton | 2,368 | 13% | 0.2 | 15 | \$714 | 30% | 0.4 |
| FE-WPP | <65k BTU/hr 16 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Misc. | Cooling Unitary | Early | ton | 2,614 | 26% | 0.4 | 15 | \$2,098 | 31% | 0.3 |
| FE-WPP | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Misc. | Cooling Unitary | New | ton | 2,368 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.4 |
| FE-WPP | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Misc. | Cooling Unitary | ROB | ton | 2,368 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.4 |
| FE-WPP | >760k min 10.2 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Misc. | Cooling Unitary | Early | ton | 66,142 | 3.7% | 1.3 | 15 | \$68,066 | 56% | 0.0 |
| FE-WPP | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Misc. | Cooling Unitary | New | ton | 66,990 | 4.9% | 1.7 | 15 | \$6,231 | 56% | 0.5 |
| FE-WPP | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Misc. | Cooling Unitary | ROB | ton | 66,990 | 4.9% | 1.7 | 15 | \$6,231 | 56% | 0.5 |
| FE-WPP | 135-240k min 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Misc. | Cooling Unitary | Early | ton | 16,274 | 18% | 1.6 | 15 | \$18,135 | 79% | 0.2 |
| FE-WPP | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Misc. | Cooling Unitary | New | ton | 14,804 | 10.0% | 0.8 | 15 | \$1,948 | 65% | 0.7 |
| FE-WPP | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Misc. | Cooling Unitary | ROB | ton | 14,804 | 10.0% | 0.8 | 15 | \$1,948 | 79% | 0.7 |
| FE-WPP | 240k-760k min 11 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Misc. | Cooling Unitary | Early | ton | 43,623 | 9.3% | 2.1 | 15 | \$44,809 | 66% | 0.1 |
| FE-WPP | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Misc. | Cooling Unitary | New | ton | 43,623 | 9.3% | 2.1 | 15 | \$4,813 | 66% | 0.8 |
| FE-WPP | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Misc. | Cooling Unitary | ROB | ton | 43,623 | 9.3% | 2.1 | 15 | \$4,813 | 66% | 0.8 |
| FE-WPP | 65k-135k BTU/hr 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Misc. | Cooling Unitary | Early | ton | 9,594 | 17% | 0.9 | 15 | \$10,946 | 86% | 0.1 |
| FE-WPP | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Misc. | Cooling Unitary | New | ton | 8,550 | 6.7% | 0.3 | 15 | \$1,392 | 86% | 0.4 |
| FE-WPP | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Misc. | Cooling Unitary | ROB | ton | 8,550 | 6.7% | 0.3 | 15 | \$1,392 | 86% | 0.4 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Misc. | Cooling Unitary | Existing | building | 29,350 | 7.0% | 0.07 | 6 | \$12,324 | 82% | 0.0 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Misc. | Cooling Unitary | New | building | 29,350 | 7.0% | 0.07 | 6 | \$12,324 | 82% | 0.0 |
| FE-WPP | Adding window shade film | No shade film | Misc. | Cooling Unitary | Existing | building | 29,350 | 1.3% | 0.4 | 10 | \$357 | 12% | 1.1 |
| FE-WPP | Adding window shade film | No shade film | Misc. | Cooling Unitary | New | building | 29,350 | 1.3% | 0.4 | 10 | \$357 | 13% | 1.1 |
| FE-WPP | Adding window shade screen | No shade screen | Misc. | Cooling Unitary | Existing | building | 29,350 | 1.1% | 0.01 | 10 | \$138 | 12% | 0.8 |
| FE-WPP | Adding window shade screen | No shade screen | Misc. | Cooling Unitary | New | building | 29,350 | 1.1% | 0.01 | 10 | \$138 | 13% | 0.8 |
| FE-WPP | Automated control system | Manual Controls | Misc. | Cooling Unitary | Existing | building | 29,350 | 17% | 0.2 | 15 | \$32,132 | 51% | 0.1 |
| FE-WPP | Automated control system | Manual Controls | Misc. | Cooling Unitary | New | building | 29,350 | 17% | 0.2 | 15 | \$32,132 | 94% | 0.1 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Misc. | Cooling Unitary | Existing | building | 29,350 | 4.9% | 0.05 | 15 | \$17,130 | 71% | 0.0 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Misc. | Cooling Unitary | New | building | 29,350 | 1.7% | 0.02 | 15 | \$16,283 | 94% | 0.0 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Misc. | Cooling Unitary | Existing | building | 29,350 | 1.4% | 0.04 | 15 | \$233 | 20% | 1.0 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Misc. | Cooling Unitary | New | building | 29,350 | 1.4% | 0.04 | 15 | \$233 | 10% | 1.0 |
| FE-WPP | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Misc. | Cooling Unitary | Existing | building | 16,143 | 13% | 0.1 | 1 | \$155 | 73% | 0.7 |
| FE-WPP | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Misc. | Cooling Unitary | New | building | 16,143 | 13% | 0.1 | 1 | \$155 | 73% | 0.7 |
| FE-WPP | ECM Motors for split systems | Std Shaded Pole Motor | Misc. | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.7 |
| FE-WPP | ECM Motors for split systems | Std Shaded Pole Motor | Misc. | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.7 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Misc. | Cooling Unitary | Existing | building | 29,350 | 7.1% | 0.07 | 15 | \$130,192 | 25% | 0.0 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Misc. | Cooling Unitary | New | building | 29,350 | 7.1% | 0.07 | 15 | \$130,192 | 35% | 0.0 |
| FE-WPP | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Misc. | Cooling Unitary | Existing | building | 29,350 | 5.0% | 0.05 | 5 | \$225 | 59% | 1.4 |
| FE-WPP | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Misc. | Cooling Unitary | Existing | building | 29,350 | 0.5% | 0.05 | 5 | \$225 | 51% | 0.2 |
| FE-WPP | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Misc. | Cooling Unitary | New | building | 29,350 | 0.5% | 0.05 | 5 | \$135 | 51% | 0.3 |
| FE-WPP | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Misc. | Cooling Unitary | Existing | building | 29,350 | 2.2% | 0.02 | 10 | \$44,835 | 86% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|--|---|---------|-----------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Misc. | Cooling Unitary | New | building | 29,350 | 2.2% | 0.02 | 10 | \$44,835 | 86% | 0.0 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) | Misc. | Cooling Unitary | Existing | building | 29,350 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.8 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Misc. | Cooling Unitary | New | building | 29,350 | 1.7% | 0.02 | 11 | \$146 | 49% | 1.4 |
| FE-WPP | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Misc. | Cooling Unitary | Early | unit | 180 | 19% | 0.09 | 15 | \$849 | 85% | 0.1 |
| FE-WPP | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Misc. | Cooling Unitary | New | unit | 182 | 20% | 0.09 | 15 | \$356 | 85% | 0.3 |
| FE-WPP | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Misc. | Cooling Unitary | ROB | unit | 182 | 20% | 0.09 | 15 | \$356 | 85% | 0.3 |
| FE-WPP | Re-Commissioning (Existing Construction) | No Re-Commissioning | Misc. | Cooling Unitary | Existing | building | 29,350 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.1 |
| FE-WPP | Room AC (w/ louvered sides) | Existing efficiency Room AC in Pennsylvania (2000 Federal Standards) | Misc. | Cooling Unitary | Early | ton | 1,185 | 13% | 0.06 | 9 | \$348 | 82% | 0.2 |
| FE-WPP | Room AC (w/ louvered sides) | Std Room AC (Code Min. Federal Standards) | Misc. | Cooling Unitary | New | ton | 1,074 | 4.5% | 0.02 | 9 | \$17 | 82% | 1.5 |
| FE-WPP | Room AC (w/ louvered sides) | Std Room AC (Code Min. Federal Standards) | Misc. | Cooling Unitary | ROB | ton | 1,074 | 4.5% | 0.02 | 9 | \$17 | 82% | 1.5 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Misc. | Cooling Unitary | Existing | building | 29,350 | 14% | 0.1 | 15 | \$5,133 | 26% | 0.4 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Misc. | Cooling Unitary | New | building | 29,350 | 0.4% | 0.00 | 15 | \$3,937 | 94% | 0.0 |
| FE-WPP | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Misc. | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 1.0 |
| FE-WPP | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Misc. | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.3 |
| FE-WPP | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Misc. | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.3 |
| FE-WPP | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Misc. | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 0% | 0.2 |
| FE-WPP | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Misc. | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-WPP | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Misc. | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-WPP | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Misc. | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 53% | 0.3 |
| FE-WPP | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Misc. | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 53% | 0.2 |
| FE-WPP | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Misc. | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 53% | 2.6 |
| FE-WPP | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Misc. | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 53% | 2.0 |
| FE-WPP | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Misc. | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 53% | 2.6 |
| FE-WPP | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Misc. | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 53% | 2.0 |
| FE-WPP | Photocell Controls (Outdoor) | Lighting w/ No Controls | Misc. | Ext. Lighting | Existing | building | 333 | 28% | 0.3 | 8 | \$4,908 | 88% | 0.0 |
| FE-WPP | Photocell Controls (Outdoor) | Lighting w/ No Controls | Misc. | Ext. Lighting | New | building | 333 | 28% | 0.3 | 8 | \$4,908 | 0% | 0.0 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Misc. | Heat Pump | Existing | building | 2,502 | 6.9% | 0.07 | 6 | \$12,324 | 82% | 0.0 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Misc. | Heat Pump | New | building | 2,502 | 6.9% | 0.07 | 6 | \$12,324 | 82% | 0.0 |
| FE-WPP | Adding window shade film | No shade film | Misc. | Heat Pump | Existing | building | 2,502 | 3.9% | 0.4 | 10 | \$30 | 12% | 9.0 |
| FE-WPP | Adding window shade film | No shade film | Misc. | Heat Pump | New | building | 2,502 | 3.9% | 0.4 | 10 | \$30 | 12% | 9.0 |
| FE-WPP | Adding window shade screen | No shade screen | Misc. | Heat Pump | Existing | building | 2,502 | 0.3% | 0.01 | 10 | \$3.9 | 12% | 2.4 |
| FE-WPP | Adding window shade screen | No shade screen | Misc. | Heat Pump | New | building | 2,502 | 0.3% | 0.01 | 10 | \$3.9 | 12% | 2.4 |
| FE-WPP | Automated control system | Manual Controls | Misc. | Heat Pump | Existing | building | 2,502 | 17% | 0.2 | 15 | \$2,739 | 51% | 0.1 |
| FE-WPP | Automated control system | Manual Controls | Misc. | Heat Pump | New | building | 2,502 | 17% | 0.2 | 15 | \$2,739 | 94% | 0.1 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Misc. | Heat Pump | Existing | building | 2,502 | 4.9% | 0.05 | 15 | \$17,130 | 71% | 0.0 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Misc. | Heat Pump | New | building | 2,502 | 1.7% | 0.02 | 15 | \$16,283 | 94% | 0.0 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Misc. | Heat Pump | Existing | building | 2,502 | 4.0% | 0.04 | 15 | \$20 | 12% | 4.1 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Misc. | Heat Pump | New | building | 2,502 | 4.0% | 0.04 | 15 | \$20 | 6% | 4.1 |
| FE-WPP | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Misc. | Heat Pump | Early | heat pump | 2,281 | 12% | 0.02 | 15 | \$4,070 | 83% | 0.0 |
| FE-WPP | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Misc. | Heat Pump | New | heat pump | 2,182 | 7.8% | 0.01 | 15 | \$1,097 | 83% | 0.1 |
| FE-WPP | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Misc. | Heat Pump | ROB | heat pump | 2,182 | 7.8% | 0.01 | 15 | \$1,097 | 83% | 0.1 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Misc. | Heat Pump | Existing | building | 2,502 | 7.0% | 0.07 | 15 | \$11,099 | 25% | 0.0 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Misc. | Heat Pump | New | building | 2,502 | 7.0% | 0.07 | 15 | \$11,099 | 35% | 0.0 |
| FE-WPP | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Misc. | Heat Pump | Early | heat pump | 23,587 | 16% | 0.3 | 15 | \$91,117 | 19% | 0.0 |
| FE-WPP | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Misc. | Heat Pump | New | heat pump | 22,730 | 13% | 0.3 | 15 | \$33,927 | 19% | 0.0 |
| FE-WPP | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Misc. | Heat Pump | ROB | heat pump | 22,730 | 13% | 0.3 | 15 | \$33,927 | 19% | 0.0 |
| FE-WPP | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Misc. | Heat Pump | Early | heat pump | 23,587 | 16% | 0.3 | 15 | \$58,356 | 19% | 0.0 |
| FE-WPP | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Misc. | Heat Pump | New | heat pump | 22,730 | 13% | 0.3 | 15 | \$1,167 | 19% | 1.4 |
| FE-WPP | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Misc. | Heat Pump | ROB | heat pump | 22,730 | 13% | 0.3 | 15 | \$1,167 | 19% | 1.4 |
| FE-WPP | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Misc. | Heat Pump | Early | heat pump | 6,103 | 17% | 0.09 | 12 | \$4,298 | 81% | 0.1 |
| FE-WPP | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Misc. | Heat Pump | New | heat pump | 5,819 | 12% | 0.06 | 12 | \$852 | 81% | 0.4 |
| FE-WPP | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Misc. | Heat Pump | ROB | heat pump | 5,819 | 12% | 0.06 | 12 | \$852 | 81% | 0.4 |
| FE-WPP | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Misc. | Heat Pump | Existing | building | 2,502 | 5.0% | 0.01 | 5 | \$90 | 51% | 0.3 |
| FE-WPP | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Misc. | Heat Pump | New | building | 2,502 | 5.0% | 0.01 | 5 | \$90 | 51% | 0.3 |
| FE-WPP | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Misc. | Heat Pump | Existing | building | 2,502 | 2.2% | 0.02 | 10 | \$39,918 | 81% | 0.0 |
| FE-WPP | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Misc. | Heat Pump | New | building | 2,502 | 2.2% | 0.02 | 10 | \$39,918 | 81% | 0.0 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Misc. | Heat Pump | Existing | building | 2,502 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.1 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Misc. | Heat Pump | New | building | 2,502 | 2.1% | 0.02 | 11 | \$146 | 49% | 0.2 |
| FE-WPP | Re-Commissioning (Existing Construction) | No Re-Commissioning | Misc. | Heat Pump | Existing | building | 2,502 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|---|---------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Wall Insualtions (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Misc. | Heat Pump | Existing | building | 2,502 | 14% | 0.1 | 15 | \$5,133 | 26% | 0.1 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Misc. | Heat Pump | New | building | 2,502 | 0.4% | 0.00 | 15 | \$3,937 | 94% | 0.0 |
| FE-WPP | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Misc. | Heat Pump | Early | heat pump | 9,790 | 35% | 0.3 | 15 | \$35,347 | 28% | 0.1 |
| FE-WPP | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Misc. | Heat Pump | New | heat pump | 9,304 | 31% | 0.3 | 15 | \$15,739 | 28% | 0.1 |
| FE-WPP | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Misc. | Heat Pump | ROB | heat pump | 9,304 | 31% | 0.3 | 15 | \$15,739 | 28% | 0.1 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Misc. | High Bay Lighting | Early | Fixture | 596 | 9.6% | 0.01 | 13 | \$850 | 39% | 0.0 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Misc. | High Bay Lighting | Early | Fixture | 595 | 9.5% | 0.01 | 13 | \$850 | 28% | 0.0 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Misc. | High Bay Lighting | Early | Fixture | 919 | 41% | 0.09 | 13 | \$850 | 36% | 0.3 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Misc. | High Bay Lighting | New | Fixture | 453 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Misc. | High Bay Lighting | New | Fixture | 422 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Misc. | High Bay Lighting | New | Fixture | 699 | 41% | 0.07 | 13 | \$397 | 36% | 0.5 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Misc. | High Bay Lighting | ROB | Fixture | 596 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Misc. | High Bay Lighting | ROB | Fixture | 555 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Misc. | High Bay Lighting | ROB | Fixture | 919 | 41% | 0.09 | 13 | \$397 | 36% | 0.6 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Misc. | High Bay Lighting | Early | Fixture | 1,157 | 19% | 0.05 | 13 | \$851 | 38% | 0.2 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Misc. | High Bay Lighting | Early | Fixture | 1,171 | 20% | 0.06 | 13 | \$851 | 38% | 0.2 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | Early | Fixture | 3,407 | 73% | 0.6 | 13 | \$851 | 38% | 1.8 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Misc. | High Bay Lighting | New | Fixture | 879 | 19% | 0.04 | 13 | \$372 | 38% | 0.3 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | New | Fixture | 2,590 | 73% | 0.5 | 13 | \$383 | 38% | 3.1 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Misc. | High Bay Lighting | ROB | Fixture | 1,157 | 19% | 0.05 | 13 | \$372 | 38% | 0.4 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | ROB | Fixture | 3,407 | 73% | 0.6 | 13 | \$383 | 38% | 4.0 |
| FE-WPP | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Misc. | High Bay Lighting | Early | Fixture | 1,157 | 25% | 0.07 | 13 | \$554 | 29% | 0.3 |
| FE-WPP | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Misc. | High Bay Lighting | Early | Fixture | 1,136 | 23% | 0.06 | 13 | \$554 | 28% | 0.3 |
| FE-WPP | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | Early | Fixture | 3,407 | 74% | 0.6 | 13 | \$554 | 36% | 2.9 |
| FE-WPP | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Misc. | High Bay Lighting | New | Fixture | 879 | 25% | 0.05 | 13 | \$75 | 29% | 1.8 |
| FE-WPP | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | New | Fixture | 2,590 | 74% | 0.5 | 13 | \$86 | 36% | 14.0 |
| FE-WPP | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Misc. | High Bay Lighting | ROB | Fixture | 1,157 | 25% | 0.07 | 13 | \$75 | 29% | 2.4 |
| FE-WPP | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | ROB | Fixture | 3,407 | 74% | 0.6 | 13 | \$86 | 36% | 18.4 |
| FE-WPP | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Misc. | High Bay Lighting | Early | Fixture | 302 | 0.2% | 0.00 | 13 | \$835 | 38% | 0.0 |
| FE-WPP | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Misc. | High Bay Lighting | Early | Fixture | 650 | 54% | 0.09 | 13 | \$835 | 38% | 0.3 |
| FE-WPP | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Misc. | High Bay Lighting | New | Fixture | 494 | 54% | 0.06 | 13 | \$382 | 38% | 0.4 |
| FE-WPP | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Misc. | High Bay Lighting | ROB | Fixture | 650 | 54% | 0.09 | 13 | \$382 | 38% | 0.6 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Misc. | High Bay Lighting | Early | Fixture | 1,474 | 18% | 0.07 | 13 | \$487 | 25% | 0.3 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Misc. | High Bay Lighting | Early | Fixture | 1,541 | 22% | 0.08 | 13 | \$487 | 28% | 0.4 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | Early | Fixture | 3,407 | 65% | 0.5 | 13 | \$487 | 36% | 2.8 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Misc. | High Bay Lighting | New | Fixture | 1,120 | 18% | 0.05 | 13 | \$16 | 25% | 7.8 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | New | Fixture | 2,590 | 65% | 0.4 | 13 | \$18 | 36% | 56.8 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Misc. | High Bay Lighting | ROB | Fixture | 1,474 | 18% | 0.07 | 13 | \$16 | 25% | 10.3 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | ROB | Fixture | 3,407 | 65% | 0.5 | 13 | \$18 | 36% | 74.7 |
| FE-WPP | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Misc. | High Bay Lighting | Early | Fixture | 1,474 | 1.5% | 0.01 | 13 | \$557 | 19% | 0.0 |
| FE-WPP | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Misc. | High Bay Lighting | Early | Fixture | 1,517 | 4.3% | 0.02 | 13 | \$557 | 19% | 0.1 |
| FE-WPP | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | Early | Fixture | 3,407 | 57% | 0.5 | 13 | \$557 | 19% | 2.2 |
| FE-WPP | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Misc. | High Bay Lighting | New | Fixture | 1,120 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| FE-WPP | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | New | Fixture | 2,590 | 57% | 0.4 | 13 | \$88 | 19% | 10.5 |
| FE-WPP | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Misc. | High Bay Lighting | ROB | Fixture | 1,474 | 1.5% | 0.01 | 13 | \$86 | 19% | 0.2 |
| FE-WPP | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | ROB | Fixture | 3,407 | 57% | 0.5 | 13 | \$88 | 19% | 13.8 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Misc. | High Bay Lighting | Early | Fixture | 626 | 29% | 0.03 | 13 | \$492 | 71% | 0.2 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Misc. | High Bay Lighting | Early | Fixture | 523 | 15% | 0.01 | 13 | \$492 | 95% | 0.1 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Misc. | High Bay Lighting | Early | Fixture | 777 | 43% | 0.06 | 13 | \$492 | 95% | 0.4 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Misc. | High Bay Lighting | Early | Fixture | 721 | 38% | 0.05 | 13 | \$492 | 95% | 0.3 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Misc. | High Bay Lighting | New | Fixture | 398 | 15% | 0.01 | 13 | \$25 | 95% | 1.4 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Misc. | High Bay Lighting | New | Fixture | 591 | 43% | 0.04 | 13 | \$51 | 95% | 2.8 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Misc. | High Bay Lighting | ROB | Fixture | 523 | 15% | 0.01 | 13 | \$25 | 95% | 1.8 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Misc. | High Bay Lighting | ROB | Fixture | 777 | 43% | 0.06 | 13 | \$51 | 95% | 3.7 |
| FE-WPP | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Misc. | High Bay Lighting | Early | lamp | 104 | 16% | 0.00 | 10 | \$7.7 | 99% | 1.0 |
| FE-WPP | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Misc. | High Bay Lighting | New | lamp | 62 | 13% | 0.00 | 10 | \$1.6 | 91% | 2.3 |
| FE-WPP | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Misc. | High Bay Lighting | ROB | lamp | 99 | 13% | 0.00 | 10 | \$1.6 | 91% | 3.7 |
| FE-WPP | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Misc. | High Bay Lighting | Early | Fixture | 3,487 | 23% | 0.2 | 13 | \$613 | 5% | 0.8 |
| FE-WPP | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Misc. | High Bay Lighting | Early | Fixture | 2,739 | 1.6% | 0.01 | 13 | \$613 | 28% | 0.0 |
| FE-WPP | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | Early | Fixture | 6,815 | 60% | 1.0 | 13 | \$613 | 18% | 4.2 |
| FE-WPP | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Misc. | High Bay Lighting | New | Fixture | 2,650 | 23% | 0.1 | 13 | \$96 | 5% | 3.9 |
| FE-WPP | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Misc. | High Bay Lighting | ROB | Fixture | 3,487 | 23% | 0.2 | 13 | \$96 | 5% | 5.1 |
| FE-WPP | Auto Off Time Switch | Lighting w/ No Controls | Misc. | High Bay Lighting | Existing | building | 1,216 | 24% | 0.2 | 8 | \$997 | 13% | 0.2 |
| FE-WPP | Auto Off Time Switch | Lighting w/ No Controls | Misc. | High Bay Lighting | New | building | 1,216 | 6.9% | 0.07 | 8 | \$997 | 0% | 0.1 |
| FE-WPP | Central Lighting Control System | Lighting w/ No Controls | Misc. | High Bay Lighting | Existing | building | 1,216 | 38% | 0.4 | 8 | \$997 | 13% | 0.3 |
| FE-WPP | Central Lighting Control System | Lighting w/ No Controls | Misc. | High Bay Lighting | New | building | 1,216 | 14% | 0.1 | 8 | \$997 | 13% | 0.1 |
| FE-WPP | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Misc. | High Bay Lighting | New | building | 1,216 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.0 |
| FE-WPP | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Misc. | High Bay Lighting | New | building | 1,216 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |
| FE-WPP | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Misc. | High Bay Lighting | New | building | 1,216 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| FE-WPP | Indoor Daylight Sensors | Lighting w/ No Controls | Misc. | High Bay Lighting | Existing | building | 1,216 | 28% | 0.3 | 8 | \$4,908 | 13% | 0.1 |
| FE-WPP | Indoor Daylight Sensors | Lighting w/ No Controls | Misc. | High Bay Lighting | New | building | 1,216 | 4.0% | 0.04 | 8 | \$4,908 | 0% | 0.0 |
| FE-WPP | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Misc. | High Bay Lighting | Early | Fixture | 3,487 | 92% | 0.8 | 13 | \$1,916 | 95% | 1.0 |
| FE-WPP | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | Early | Fixture | 6,815 | 96% | 1.6 | 13 | \$1,916 | 95% | 2.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|--|---------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Misc. | High Bay Lighting | New | Fixture | 2,650 | 92% | 0.6 | 13 | \$1,468 | 95% | 1.0 |
| FE-WPP | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | New | Fixture | 5,179 | 96% | 1.2 | 13 | \$1,149 | 95% | 2.7 |
| FE-WPP | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Misc. | High Bay Lighting | ROB | Fixture | 3,487 | 92% | 0.8 | 13 | \$1,468 | 95% | 1.4 |
| FE-WPP | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | ROB | Fixture | 6,815 | 96% | 1.6 | 13 | \$1,149 | 95% | 3.6 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Misc. | High Bay Lighting | Early | Fixture | 1,157 | 67% | 0.2 | 13 | \$960 | 95% | 0.5 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Misc. | High Bay Lighting | Early | Fixture | 3,407 | 89% | 0.7 | 13 | \$960 | 95% | 2.0 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Misc. | High Bay Lighting | Early | Fixture | 935 | 59% | 0.1 | 13 | \$960 | 95% | 0.4 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Misc. | High Bay Lighting | New | Fixture | 879 | 67% | 0.1 | 13 | \$480 | 95% | 0.8 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Misc. | High Bay Lighting | New | Fixture | 2,590 | 89% | 0.6 | 13 | \$491 | 95% | 2.9 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Misc. | High Bay Lighting | New | Fixture | 711 | 59% | 0.1 | 13 | \$406 | 95% | 0.6 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Misc. | High Bay Lighting | ROB | Fixture | 1,157 | 67% | 0.2 | 13 | \$480 | 95% | 1.0 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Misc. | High Bay Lighting | ROB | Fixture | 3,407 | 89% | 0.7 | 13 | \$491 | 95% | 3.8 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Misc. | High Bay Lighting | ROB | Fixture | 935 | 59% | 0.1 | 13 | \$406 | 95% | 0.8 |
| FE-WPP | Occupancy Sensor | Lighting w/ No Controls | Misc. | High Bay Lighting | Existing | building | 1,216 | 24% | 0.2 | 8 | \$1,503 | 12% | 0.1 |
| FE-WPP | Occupancy Sensor | Lighting w/ No Controls | Misc. | High Bay Lighting | New | building | 1,216 | 6.9% | 0.07 | 8 | \$1,503 | 0% | 0.0 |
| FE-WPP | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Misc. | High Bay Lighting | Existing | building | 1,216 | 28% | 0.3 | 8 | \$4,908 | 12% | 0.1 |
| FE-WPP | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Misc. | High Bay Lighting | New | building | 1,216 | 4.0% | 0.04 | 8 | \$4,908 | 0% | 0.0 |
| FE-WPP | Time Clock Control | Lighting w/ No Controls | Misc. | High Bay Lighting | Existing | building | 1,216 | 28% | 0.3 | 8 | \$997 | 13% | 0.3 |
| FE-WPP | Time Clock Control | Lighting w/ No Controls | Misc. | High Bay Lighting | New | building | 1,216 | 4.0% | 0.04 | 8 | \$997 | 0% | 0.0 |
| FE-WPP | Auto Off Time Switch | Lighting w/ No Controls | Misc. | Lin. Fluor. Lighting | Existing | building | 28,549 | 24% | 0.2 | 8 | \$997 | 13% | 2.2 |
| FE-WPP | Auto Off Time Switch | Lighting w/ No Controls | Misc. | Lin. Fluor. Lighting | New | building | 28,549 | 7.0% | 0.07 | 8 | \$997 | 0% | 0.6 |
| FE-WPP | Central Lighting Control System | Lighting w/ No Controls | Misc. | Lin. Fluor. Lighting | Existing | building | 28,549 | 38% | 0.4 | 8 | \$997 | 12% | 3.4 |
| FE-WPP | Central Lighting Control System | Lighting w/ No Controls | Misc. | Lin. Fluor. Lighting | New | building | 28,549 | 14% | 0.1 | 8 | \$997 | 12% | 1.3 |
| FE-WPP | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Misc. | Lin. Fluor. Lighting | New | building | 28,549 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.0 |
| FE-WPP | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Misc. | Lin. Fluor. Lighting | New | building | 28,549 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |
| FE-WPP | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Misc. | Lin. Fluor. Lighting | New | building | 28,549 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| FE-WPP | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Misc. | Lin. Fluor. Lighting | Early | Lamp | 208 | 38% | 0.01 | 10 | \$7.3 | 94% | 5.0 |
| FE-WPP | Indoor Daylight Sensors | Lighting w/ No Controls | Misc. | Lin. Fluor. Lighting | Existing | building | 28,549 | 28% | 0.3 | 8 | \$4,908 | 13% | 0.5 |
| FE-WPP | Indoor Daylight Sensors | Lighting w/ No Controls | Misc. | Lin. Fluor. Lighting | New | building | 28,549 | 4.1% | 0.04 | 8 | \$4,908 | 0% | 0.1 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | Early | Lamp | 73 | 19% | 0.00 | 15 | \$35 | 94% | 0.3 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 40W T12 Lamp, Magnetic Ballast | Misc. | Lin. Fluor. Lighting | Early | Lamp | 161 | 63% | 0.03 | 15 | \$35 | 94% | 2.0 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | Early | Lamp | 90 | 34% | 0.01 | 15 | \$35 | 94% | 0.6 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | Early | Lamp | 87 | 32% | 0.01 | 15 | \$35 | 94% | 0.6 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | New | Lamp | 56 | 19% | 0.00 | 15 | \$28 | 94% | 0.3 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | New | Lamp | 66 | 32% | 0.01 | 15 | \$29 | 94% | 0.5 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | New | Lamp | 68 | 34% | 0.01 | 15 | \$22 | 94% | 0.8 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | New | Lamp | 66 | 32% | 0.01 | 15 | \$29 | 94% | 0.5 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | ROB | Lamp | 73 | 19% | 0.00 | 15 | \$28 | 94% | 0.4 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | ROB | Lamp | 87 | 32% | 0.01 | 15 | \$29 | 94% | 0.7 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | ROB | Lamp | 90 | 34% | 0.01 | 15 | \$22 | 94% | 1.0 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | ROB | Lamp | 87 | 32% | 0.01 | 15 | \$29 | 94% | 0.7 |
| FE-WPP | Occupancy Sensor | Lighting w/ No Controls | Misc. | Lin. Fluor. Lighting | Existing | building | 28,549 | 24% | 0.2 | 8 | \$1,503 | 13% | 1.4 |
| FE-WPP | Occupancy Sensor | Lighting w/ No Controls | Misc. | Lin. Fluor. Lighting | New | building | 28,549 | 7.0% | 0.07 | 8 | \$1,503 | 0% | 0.4 |
| FE-WPP | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Misc. | Lin. Fluor. Lighting | Existing | building | 28,549 | 28% | 0.3 | 8 | \$4,908 | 12% | 0.5 |
| FE-WPP | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Misc. | Lin. Fluor. Lighting | New | building | 28,549 | 4.1% | 0.04 | 8 | \$4,908 | 0% | 0.1 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 40W T12 w/ Magnetic Ballast | Misc. | Lin. Fluor. Lighting | Early | Lamp | 208 | 54% | 0.02 | 10 | \$9.1 | 94% | 5.7 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | Early | Lamp | 133 | 28% | 0.01 | 10 | \$9.1 | 24% | 1.9 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | Early | Lamp | 129 | 26% | 0.01 | 10 | \$9.1 | 94% | 1.7 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | New | Lamp | 98 | 26% | 0.00 | 10 | \$2.5 | 94% | 4.6 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | New | Lamp | 98 | 26% | 0.00 | 10 | \$2.5 | 94% | 4.6 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | New | Lamp | 101 | 28% | 0.00 | 10 | \$2.5 | 24% | 5.2 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | New | Lamp | 98 | 26% | 0.00 | 10 | \$2.5 | 94% | 4.6 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | ROB | Lamp | 129 | 26% | 0.01 | 10 | \$2.5 | 94% | 6.1 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | ROB | Lamp | 129 | 26% | 0.01 | 10 | \$2.5 | 94% | 6.1 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | ROB | Lamp | 133 | 28% | 0.01 | 10 | \$2.5 | 24% | 6.8 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | ROB | Lamp | 129 | 26% | 0.01 | 10 | \$2.5 | 94% | 6.1 |
| FE-WPP | T8 Lamp (any length) Electronic Ballast | Standard T12 lamp (any length) | Misc. | Lin. Fluor. Lighting | Early | Lamp | 245 | 42% | 0.02 | 10 | \$14 | 94% | 3.4 |
| FE-WPP | Time Clock Control | Lighting w/ No Controls | Misc. | Lin. Fluor. Lighting | Existing | building | 28,549 | 28% | 0.3 | 8 | \$997 | 14% | 2.5 |
| FE-WPP | Time Clock Control | Lighting w/ No Controls | Misc. | Lin. Fluor. Lighting | New | building | 28,549 | 4.1% | 0.04 | 8 | \$997 | 0% | 0.4 |
| FE-WPP | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | Early | motor | 3,361 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| FE-WPP | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | Early | motor | 3,361 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| FE-WPP | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | Early | motor | 3,361 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| FE-WPP | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | Early | motor | 3,361 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|--|---------|---------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 175,977 | 0.5% | 0.1 | 15 | \$431 | 70% | 1.2 |
| FE-WPP | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 175,977 | 0.5% | 0.1 | 15 | \$431 | 70% | 1.2 |
| FE-WPP | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 175,977 | 0.5% | 0.1 | 15 | \$431 | 70% | 1.2 |
| FE-WPP | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 175,977 | 0.5% | 0.1 | 15 | \$431 | 70% | 1.2 |
| FE-WPP | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 175,977 | 0.5% | 0.1 | 15 | \$431 | 70% | 1.2 |
| FE-WPP | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | Early | motor | 23,526 | 2.9% | 0.09 | 15 | \$802 | 83% | 0.5 |
| FE-WPP | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | Early | motor | 23,526 | 2.9% | 0.09 | 15 | \$802 | 83% | 0.5 |
| FE-WPP | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | Early | motor | 23,526 | 2.9% | 0.09 | 15 | \$802 | 83% | 0.5 |
| FE-WPP | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | Early | motor | 23,526 | 2.9% | 0.09 | 15 | \$802 | 83% | 0.5 |
| FE-WPP | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | Early | motor | 23,526 | 2.9% | 0.09 | 15 | \$802 | 83% | 0.5 |
| FE-WPP | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | New | motor | 22,964 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.6 |
| FE-WPP | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | New | motor | 22,964 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.6 |
| FE-WPP | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | New | motor | 22,964 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.6 |
| FE-WPP | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | New | motor | 22,964 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.6 |
| FE-WPP | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | New | motor | 22,964 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.6 |
| FE-WPP | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 22,964 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.6 |
| FE-WPP | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 22,964 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.6 |
| FE-WPP | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 22,964 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.6 |
| FE-WPP | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 22,964 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.6 |
| FE-WPP | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 22,964 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.6 |
| FE-WPP | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 22,964 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.6 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | Early | motor | 221,800 | 1.3% | 0.4 | 15 | \$3,955 | 61% | 0.4 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | Early | motor | 221,800 | 1.3% | 0.4 | 15 | \$3,955 | 61% | 0.4 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | Early | motor | 221,800 | 1.3% | 0.4 | 15 | \$3,955 | 61% | 0.4 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | Early | motor | 221,800 | 1.3% | 0.4 | 15 | \$3,955 | 61% | 0.4 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | Early | motor | 221,800 | 1.3% | 0.4 | 15 | \$3,955 | 61% | 0.4 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | New | motor | 219,972 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.1 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | New | motor | 219,972 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.1 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | New | motor | 219,972 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.1 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | New | motor | 219,972 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.1 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | New | motor | 219,972 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.1 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | New | motor | 219,972 | 0.4% | 0.1 | 15 | \$554 | 61% | 1.1 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 219,972 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.1 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 219,972 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.1 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 219,972 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.1 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 219,972 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.1 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 219,972 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.1 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 219,972 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.1 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 219,972 | 0.4% | 0.1 | 15 | \$554 | 61% | 1.1 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Misc. | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 20.4 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Misc. | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 20.6 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Misc. | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 21.0 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Misc. | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 21.4 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Misc. | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 22.1 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Misc. | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 20.2 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Misc. | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 20.8 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Misc. | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 21.2 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Misc. | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 21.6 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Misc. | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 21.9 |
| FE-WPP | Escalator Motor Controller | Constant power control | Misc. | Motors | New | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 45% | 5.6 |
| FE-WPP | Escalator Motor Controller | Constant power control | Misc. | Motors | ROB | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 45% | 5.6 |
| FE-WPP | Variable Speed Drive Control, 15HP | Existing Motors w/out VSD Drive | Misc. | Motors | Early | motor | 45,928 | 70% | 4.7 | 15 | \$731 | 86% | 27.1 |
| FE-WPP | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Misc. | Motors | New | motor | 44,940 | 72% | 4.7 | 15 | \$731 | 86% | 27.1 |
| FE-WPP | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Misc. | Motors | ROB | motor | 44,940 | 71% | 4.7 | 15 | \$731 | 86% | 27.1 |
| FE-WPP | Variable Speed Drive Control, 40HP | Existing Motors w/out VSD Drive | Misc. | Motors | Early | motor | 119,841 | 71% | 12.5 | 15 | \$4,666 | 86% | 11.2 |
| FE-WPP | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Misc. | Motors | New | motor | 118,440 | 71% | 12.5 | 15 | \$4,666 | 86% | 11.2 |
| FE-WPP | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Misc. | Motors | ROB | motor | 118,440 | 72% | 12.5 | 15 | \$4,666 | 86% | 11.2 |
| FE-WPP | Variable Speed Drive Control, 5HP | Existing Motors w/out VFD Drive | Misc. | Motors | Early | motor | 15,922 | 72% | 1.7 | 15 | \$2,243 | 86% | 3.1 |
| FE-WPP | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Misc. | Motors | New | motor | 15,566 | 71% | 1.6 | 15 | \$2,243 | 86% | 3.1 |
| FE-WPP | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Misc. | Motors | ROB | motor | 15,566 | 72% | 1.6 | 15 | \$2,243 | 86% | 3.1 |
| FE-WPP | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Misc. | Motors | Early | motor | 4,943 | 23% | 0.1 | 15 | \$268 | 13% | 2.5 |
| FE-WPP | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Misc. | Motors | New | motor | 4,943 | 23% | 0.1 | 15 | \$268 | 13% | 2.5 |
| FE-WPP | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Misc. | Motors | ROB | motor | 4,943 | 23% | 0.1 | 15 | \$268 | 13% | 2.5 |
| FE-WPP | VFD on Chilled Water Pump | Motor w/out VFD Drive | Misc. | Motors | Early | motor | 16,590 | 55% | 1.2 | 15 | \$2,903 | 86% | 1.8 |
| FE-WPP | VFD on Chilled Water Pump | Motor w/out VFD Drive | Misc. | Motors | New | motor | 16,280 | 55% | 1.2 | 15 | \$2,843 | 86% | 1.9 |
| FE-WPP | VFD on Chilled Water Pump | Motor w/out VFD Drive | Misc. | Motors | ROB | motor | 16,280 | 55% | 1.2 | 15 | \$2,843 | 86% | 1.9 |
| FE-WPP | VFD on Condenser Water Pump | Motor w/out VFD Drive | Misc. | Motors | Early | motor | 18,641 | 32% | 0.8 | 15 | \$2,903 | 86% | 1.2 |
| FE-WPP | VFD on Condenser Water Pump | Motor w/out VFD Drive | Misc. | Motors | New | motor | 18,292 | 33% | 0.8 | 15 | \$2,843 | 86% | 1.3 |
| FE-WPP | VFD on Condenser Water Pump | Motor w/out VFD Drive | Misc. | Motors | ROB | motor | 18,292 | 33% | 0.8 | 15 | \$2,843 | 86% | 1.3 |
| FE-WPP | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Misc. | Motors | Early | motor | 27,718 | 56% | 2.0 | 15 | \$2,903 | 86% | 3.1 |
| FE-WPP | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Misc. | Motors | New | motor | 27,199 | 57% | 2.0 | 15 | \$2,843 | 86% | 3.2 |
| FE-WPP | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Misc. | Motors | ROB | motor | 27,199 | 57% | 2.0 | 15 | \$2,843 | 86% | 3.2 |
| FE-WPP | VFD on HVAC Fan | Motor w/out VFD | Misc. | Motors | Early | motor | 18,724 | 70% | 1.9 | 15 | \$2,903 | 86% | 2.8 |
| FE-WPP | VFD on HVAC Fan | Motor w/out VFD | Misc. | Motors | New | motor | 18,373 | 71% | 1.9 | 15 | \$2,843 | 86% | 2.8 |
| FE-WPP | VFD on HVAC Fan | Motor w/out VFD | Misc. | Motors | ROB | motor | 18,373 | 72% | 1.9 | 15 | \$2,843 | 86% | 2.8 |
| FE-WPP | Variable Speed Drives on Process Equipment | Constant speed control | Misc. | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 9% | 10.1 |
| FE-WPP | Variable Speed Drives on Process Equipment | Constant speed control | Misc. | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 9% | 10.1 |
| FE-WPP | Auto Off Time Switch | Lighting w/ No Controls | Misc. | Other Int. Lighting | Existing | building | 4,643 | 24% | 0.2 | 8 | \$997 | 13% | 0.5 |
| FE-WPP | Auto Off Time Switch | Lighting w/ No Controls | Misc. | Other Int. Lighting | New | building | 4,643 | 7.0% | 0.07 | 8 | \$997 | 0% | 0.1 |
| FE-WPP | Central Lighting Control System | Lighting w/ No Controls | Misc. | Other Int. Lighting | Existing | building | 4,643 | 38% | 0.4 | 8 | \$997 | 13% | 0.7 |
| FE-WPP | Central Lighting Control System | Lighting w/ No Controls | Misc. | Other Int. Lighting | New | building | 4,643 | 14% | 0.1 | 8 | \$997 | 13% | 0.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|--|---------|---------------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Cold Cathode Screw-In Bulb | 40W Incandescent Bulb | Misc. | Other Int. Lighting | Early | lamp | 169 | 87% | 0.04 | 9 | \$30 | 14% | 2.3 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Misc. | Other Int. Lighting | Early | lamp | 121 | 81% | 0.02 | 9 | \$30 | 11% | 1.6 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Misc. | Other Int. Lighting | New | lamp | 92 | 81% | 0.02 | 9 | \$21 | 14% | 1.7 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Misc. | Other Int. Lighting | New | lamp | 92 | 81% | 0.02 | 9 | \$23 | 14% | 1.6 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Misc. | Other Int. Lighting | New | lamp | 92 | 81% | 0.02 | 9 | \$22 | 11% | 1.6 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Misc. | Other Int. Lighting | ROB | lamp | 121 | 81% | 0.02 | 9 | \$21 | 14% | 2.2 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Misc. | Other Int. Lighting | ROB | lamp | 121 | 81% | 0.02 | 9 | \$23 | 14% | 2.1 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Misc. | Other Int. Lighting | ROB | lamp | 121 | 81% | 0.02 | 9 | \$22 | 11% | 2.1 |
| FE-WPP | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Misc. | Other Int. Lighting | Early | lamp | 169 | 75% | 0.03 | 4 | \$73 | 24% | 0.4 |
| FE-WPP | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Misc. | Other Int. Lighting | New | fixture | 184 | 65% | 0.03 | 13 | \$29 | 28% | 2.6 |
| FE-WPP | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Misc. | Other Int. Lighting | New | lamp | 92 | 65% | 0.01 | 4 | \$29 | 28% | 0.5 |
| FE-WPP | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Misc. | Other Int. Lighting | ROB | fixture | 242 | 65% | 0.04 | 13 | \$29 | 24% | 3.4 |
| FE-WPP | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Misc. | Other Int. Lighting | ROB | lamp | 121 | 65% | 0.02 | 4 | \$29 | 24% | 0.7 |
| FE-WPP | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Misc. | Other Int. Lighting | Early | lamp | 169 | 75% | 0.03 | 4 | \$3.2 | 24% | 9.6 |
| FE-WPP | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Misc. | Other Int. Lighting | New | lamp | 92 | 65% | 0.01 | 4 | \$1.8 | 24% | 8.2 |
| FE-WPP | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Misc. | Other Int. Lighting | ROB | lamp | 121 | 65% | 0.02 | 4 | \$1.8 | 24% | 10.8 |
| FE-WPP | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Misc. | Other Int. Lighting | ROB | lamp | 121 | 65% | 0.02 | 4 | \$1.8 | 24% | 10.8 |
| FE-WPP | Exit Sign Retrofit: CFL replacing Incandescent | One 23W Single Sided Incandescent Exit Sign | Misc. | Other Int. Lighting | Early | exit sign | 136 | 42% | 0.01 | 15 | \$48 | 22% | 0.7 |
| FE-WPP | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Misc. | Other Int. Lighting | New | building | 4,643 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.0 |
| FE-WPP | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Misc. | Other Int. Lighting | New | building | 4,643 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |
| FE-WPP | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Misc. | Other Int. Lighting | New | building | 4,643 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| FE-WPP | Indoor Daylight Sensors | Lighting w/ No Controls | Misc. | Other Int. Lighting | Existing | building | 4,643 | 28% | 0.3 | 8 | \$4,908 | 13% | 0.1 |
| FE-WPP | Indoor Daylight Sensors | Lighting w/ No Controls | Misc. | Other Int. Lighting | New | building | 4,643 | 4.1% | 0.04 | 8 | \$4,908 | 0% | 0.0 |
| FE-WPP | LED Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Misc. | Other Int. Lighting | Early | sign | 88 | 78% | 0.01 | 15 | \$48 | 16% | 0.9 |
| FE-WPP | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Misc. | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 1.8 |
| FE-WPP | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Misc. | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 1.8 |
| FE-WPP | LED Task Lighting/Screw-In | 1 15W CFL bulb | Misc. | Other Int. Lighting | Early | lamp | 30 | 33% | 0.00 | 12 | \$9.6 | 24% | 0.6 |
| FE-WPP | LED Task Lighting/Screw-In | 1 60W Incandescent Bulb | Misc. | Other Int. Lighting | Early | lamp | 119 | 83% | 0.02 | 12 | \$9.6 | 24% | 5.7 |
| FE-WPP | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Misc. | Other Int. Lighting | New | lamp | 65 | 77% | 0.01 | 12 | \$7.9 | 24% | 3.5 |
| FE-WPP | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Misc. | Other Int. Lighting | New | lamp | 65 | 77% | 0.01 | 12 | \$7.9 | 24% | 3.5 |
| FE-WPP | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Misc. | Other Int. Lighting | ROB | lamp | 86 | 77% | 0.01 | 12 | \$7.9 | 24% | 4.5 |
| FE-WPP | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Misc. | Other Int. Lighting | ROB | lamp | 86 | 77% | 0.01 | 12 | \$7.9 | 24% | 4.5 |
| FE-WPP | Occupancy Sensor | Lighting w/ No Controls | Misc. | Other Int. Lighting | Existing | building | 4,643 | 24% | 0.2 | 8 | \$1,503 | 12% | 0.3 |
| FE-WPP | Occupancy Sensor | Lighting w/ No Controls | Misc. | Other Int. Lighting | New | building | 4,643 | 7.0% | 0.07 | 8 | \$1,503 | 0% | 0.1 |
| FE-WPP | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Misc. | Other Int. Lighting | Existing | building | 4,643 | 28% | 0.3 | 8 | \$4,908 | 12% | 0.1 |
| FE-WPP | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Misc. | Other Int. Lighting | New | building | 4,643 | 4.1% | 0.04 | 8 | \$4,908 | 0% | 0.0 |
| FE-WPP | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Misc. | Other Int. Lighting | Early | exit sign | 136 | 100% | 0.02 | 15 | \$173 | 26% | 0.5 |
| FE-WPP | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Misc. | Other Int. Lighting | New | exit sign | 78 | 100% | 0.01 | 15 | \$148 | 31% | 0.3 |
| FE-WPP | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Misc. | Other Int. Lighting | ROB | exit sign | 78 | 100% | 0.01 | 15 | \$148 | 26% | 0.3 |
| FE-WPP | Time Clock Control | Lighting w/ No Controls | Misc. | Other Int. Lighting | Existing | building | 4,643 | 28% | 0.3 | 8 | \$997 | 13% | 0.5 |
| FE-WPP | Time Clock Control | Lighting w/ No Controls | Misc. | Other Int. Lighting | New | building | 4,643 | 4.1% | 0.04 | 8 | \$997 | 0% | 0.1 |
| FE-WPP | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Misc. | Plug Load | Existing | building | 1,324 | 46% | 0.5 | 5 | \$189 | 4% | 1.5 |
| FE-WPP | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Misc. | Plug Load | New | building | 1,324 | 46% | 0.5 | 5 | \$189 | 4% | 1.5 |
| FE-WPP | Data Center - Server/Storage Consolidation | No Consolidation | Misc. | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-WPP | Data Center - Server/Storage Consolidation | No Consolidation | Misc. | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-WPP | Data Center - Server/Storage Virtualization | No Virtualization | Misc. | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-WPP | Data Center - Server/Storage Virtualization | No Virtualization | Misc. | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-WPP | Energy Star - Scanners | Std Scanner | Misc. | Plug Load | New | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| FE-WPP | Energy Star - Scanners | Std Scanner | Misc. | Plug Load | ROB | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| FE-WPP | Energy Star Dishwasher | Existing Dishwasher units | Misc. | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,580 | 6% | 1.0 |
| FE-WPP | Energy Star Dishwasher | Standard Dishwasher unit | Misc. | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 6% | 3.1 |
| FE-WPP | Energy Star Dishwasher | Standard Dishwasher unit | Misc. | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 6% | 3.1 |
| FE-WPP | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Misc. | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 17% | 0.2 |
| FE-WPP | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Misc. | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 1.9 |
| FE-WPP | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Misc. | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 1.9 |
| FE-WPP | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Misc. | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 64% | 0.8 |
| FE-WPP | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Misc. | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 64% | 1.6 |
| FE-WPP | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Misc. | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 64% | 1.6 |
| FE-WPP | ENERGY STAR® Copiers | 10% Less Efficient Copier | Misc. | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 18% | 0.0 |
| FE-WPP | ENERGY STAR® Copiers | One Conventional Copier | Misc. | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| FE-WPP | ENERGY STAR® Copiers | One Conventional Copier | Misc. | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| FE-WPP | ENERGY STAR® desktop | Standard computer | Misc. | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 69% | 0.1 |
| FE-WPP | ENERGY STAR® desktop | Standard computer | Misc. | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.3 |
| FE-WPP | ENERGY STAR® desktop | Standard computer | Misc. | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.3 |
| FE-WPP | ENERGY STAR® Fax | 10% Less Efficient Fax | Misc. | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 15% | 0.0 |
| FE-WPP | ENERGY STAR® Fax | One Conventional Fax | Misc. | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| FE-WPP | ENERGY STAR® Fax | One Conventional Fax | Misc. | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| FE-WPP | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Misc. | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 70% | 0.0 |
| FE-WPP | ENERGY STAR® Monitors | One Conventional Monitor | Misc. | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| FE-WPP | ENERGY STAR® Monitors | One Conventional Monitor | Misc. | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|---|---------|---------------|----------|-------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | ENERGY STAR® Printers | 10% Less Efficient Printer | Misc. | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 44% | 0.0 |
| FE-WPP | ENERGY STAR® Printers | One Conventional Printer | Misc. | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| FE-WPP | ENERGY STAR® Printers | One Conventional Printer | Misc. | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| FE-WPP | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Misc. | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 43% | 0.1 |
| FE-WPP | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Misc. | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.7 |
| FE-WPP | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Misc. | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.7 |
| FE-WPP | ENERGY STAR® Televisions | 10% Less Efficient Television | Misc. | Plug Load | Early | Unit | 221 | 38% | 0.02 | 6 | \$672 | 40% | 0.0 |
| FE-WPP | ENERGY STAR® Televisions | One Conventional Television | Misc. | Plug Load | New | Unit | 201 | 32% | 0.01 | 6 | \$206 | 40% | 0.1 |
| FE-WPP | ENERGY STAR® Televisions | One Conventional Television | Misc. | Plug Load | ROB | Unit | 201 | 32% | 0.01 | 6 | \$206 | 40% | 0.1 |
| FE-WPP | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Misc. | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 24% | 0.3 |
| FE-WPP | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Misc. | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.6 |
| FE-WPP | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Misc. | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.6 |
| FE-WPP | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Misc. | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.2 |
| FE-WPP | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Misc. | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.2 |
| FE-WPP | Network PC Power Management | No PC Power Management | Misc. | Plug Load | Existing | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 7.6 |
| FE-WPP | Network PC Power Management | No PC Power Management | Misc. | Plug Load | New | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 7.6 |
| FE-WPP | Smart Strip Plug Outlets | Standard plug strip/outlet | Misc. | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.3 |
| FE-WPP | Smart Strip Plug Outlets | Standard plug strip/outlet | Misc. | Plug Load | Early | Smart Strip | 378 | 26% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-WPP | Smart Strip Plug Outlets | Standard plug strip/outlet | Misc. | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-WPP | Smart Strip Plug Outlets | Standard plug strip/outlet | Misc. | Plug Load | New | Smart Strip | 296 | 42% | 0.01 | 5 | \$21 | 85% | 1.3 |
| FE-WPP | Smart Strip Plug Outlets | Standard plug strip/outlet | Misc. | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-WPP | Smart Strip Plug Outlets | Standard plug strip/outlet | Misc. | Plug Load | ROB | Smart Strip | 296 | 42% | 0.01 | 5 | \$21 | 85% | 1.3 |
| FE-WPP | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Misc. | Plug Load | Existing | building | 1,324 | 46% | 0.5 | 5 | \$180 | 3% | 1.6 |
| FE-WPP | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Misc. | Plug Load | New | building | 1,324 | 46% | 0.5 | 5 | \$180 | 3% | 1.6 |
| FE-WPP | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Misc. | Refrigeration | Existing | building | 926 | 3.6% | 0.04 | 12 | \$70 | 11% | 0.6 |
| FE-WPP | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Misc. | Refrigeration | New | building | 926 | 3.6% | 0.04 | 12 | \$70 | 11% | 0.6 |
| FE-WPP | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Misc. | Refrigeration | Existing | building | 926 | 1.4% | 0.01 | 12 | \$70 | 11% | 0.2 |
| FE-WPP | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Misc. | Refrigeration | New | building | 926 | 1.4% | 0.01 | 12 | \$70 | 11% | 0.2 |
| FE-WPP | Auto Closer on Refrigerator Door | Door w/out Autocloser | Misc. | Refrigeration | Existing | building | 3,497 | 23% | 0.2 | 8 | \$642 | 40% | 0.6 |
| FE-WPP | Auto Closer on Refrigerator Door | Door w/out Autocloser | Misc. | Refrigeration | Existing | building | 5,862 | 14% | 0.1 | 8 | \$700 | 40% | 0.4 |
| FE-WPP | Auto Closer on Refrigerator Door | Door w/out Autocloser | Misc. | Refrigeration | New | building | 3,497 | 23% | 0.2 | 8 | \$642 | 40% | 0.6 |
| FE-WPP | Auto Closer on Refrigerator Door | Door w/out Autocloser | Misc. | Refrigeration | New | building | 5,862 | 14% | 0.1 | 8 | \$700 | 40% | 0.4 |
| FE-WPP | Demand Hot Gas Defrost | Base Refrigeration System | Misc. | Refrigeration | Existing | measure | 926 | 3.0% | 0.03 | 10 | \$1,408 | 0% | 0.0 |
| FE-WPP | Demand Hot Gas Defrost | Base Refrigeration System | Misc. | Refrigeration | New | measure | 926 | 3.0% | 0.03 | 10 | \$1,408 | 0% | 0.0 |
| FE-WPP | Door Gasket- Freezer | Door w/out Gasket | Misc. | Refrigeration | Existing | building | 3,497 | 14% | 0.1 | 4 | \$66 | 29% | 1.8 |
| FE-WPP | Door Gasket- Freezer | Door w/out Gasket | Misc. | Refrigeration | New | building | 3,497 | 7.0% | 0.07 | 4 | \$66 | 29% | 0.9 |
| FE-WPP | Door Gasket- Refrigerator | Door w/out Gasket | Misc. | Refrigeration | Existing | building | 5,862 | 4.4% | 0.04 | 4 | \$97 | 45% | 0.6 |
| FE-WPP | Door Gasket- Refrigerator | Door w/out Gasket | Misc. | Refrigeration | New | building | 5,862 | 4.4% | 0.04 | 4 | \$97 | 45% | 0.6 |
| FE-WPP | eCube | Refrigeration unit w/out eCube | Misc. | Refrigeration | Existing | building | 5,862 | 15% | 0.2 | 15 | \$601 | 57% | 0.9 |
| FE-WPP | eCube | Refrigeration unit w/out eCube | Misc. | Refrigeration | New | building | 5,862 | 15% | 0.2 | 15 | \$601 | 57% | 0.9 |
| FE-WPP | Efficient compressor motor | Base Refrigeration System - Grocery | Misc. | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| FE-WPP | Efficient compressor motor | Base Refrigeration System - Grocery | Misc. | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| FE-WPP | Efficient compressor motor | Base Refrigeration System - Grocery | Misc. | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| FE-WPP | Efficient compressor motor | Base Refrigeration System - Grocery | Misc. | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| FE-WPP | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Misc. | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.5 |
| FE-WPP | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Misc. | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| FE-WPP | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Misc. | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| FE-WPP | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Misc. | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.3 |
| FE-WPP | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Misc. | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.7 |
| FE-WPP | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Misc. | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.7 |
| FE-WPP | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Misc. | Refrigeration | Existing | building | 5,862 | 1.7% | 0.02 | 10 | \$369 | 77% | 0.1 |
| FE-WPP | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Misc. | Refrigeration | New | building | 5,862 | 1.7% | 0.02 | 10 | \$369 | 77% | 0.1 |
| FE-WPP | Floating head pressure controller | System w/out FHPC | Misc. | Refrigeration | Existing | building | 3,497 | 6.5% | 0.03 | 15 | \$8,682 | 41% | 0.0 |
| FE-WPP | Floating head pressure controller | System w/out FHPC | Misc. | Refrigeration | Existing | building | 926 | 11% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-WPP | Floating head pressure controller | System w/out FHPC | Misc. | Refrigeration | Existing | building | 5,862 | 1.3% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-WPP | Floating head pressure controller | System w/out FHPC | Misc. | Refrigeration | New | building | 3,497 | 6.5% | 0.03 | 15 | \$8,682 | 41% | 0.0 |
| FE-WPP | Floating head pressure controller | System w/out FHPC | Misc. | Refrigeration | New | building | 926 | 11% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-WPP | Floating head pressure controller | System w/out FHPC | Misc. | Refrigeration | New | building | 5,862 | 1.3% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-WPP | High Efficiency Commercial Freezer | Std. Commercial Freezer | Misc. | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 86% | 0.3 |
| FE-WPP | High Efficiency Commercial Freezer | Std. Commercial Freezer | Misc. | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 3.6 |
| FE-WPP | High Efficiency Commercial Freezer | Std. Commercial Freezer | Misc. | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 3.6 |
| FE-WPP | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Misc. | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 2% | 0.1 |
| FE-WPP | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Misc. | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.8 |
| FE-WPP | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Misc. | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.8 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|--|---------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | High Efficiency Ice Maker | Existing Standard Efficiency Ice Maker in Pennsylvania | Misc. | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 73% | 0.1 |
| FE-WPP | High Efficiency Ice Maker | Standard code minimum Ice Maker | Misc. | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| FE-WPP | High Efficiency Ice Maker | Standard code minimum Ice Maker | Misc. | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| FE-WPP | High Efficiency Ice Making Head | Standard Ice Making Head | Misc. | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.5 |
| FE-WPP | High Efficiency Ice Making Head | Standard Ice Making Head | Misc. | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.6 |
| FE-WPP | High R-Value Glass Doors | Base Refrigeration System - Grocery | Misc. | Refrigeration | Existing | building | 926 | 0.7% | 0.01 | 10 | \$16 | 0% | 0.4 |
| FE-WPP | High R-Value Glass Doors | Base Refrigeration System - Grocery | Misc. | Refrigeration | New | building | 926 | 0.7% | 0.01 | 10 | \$16 | 0% | 0.4 |
| FE-WPP | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Misc. | Refrigeration | Early | Fixture | 373 | 56% | 0.02 | 8 | \$448 | 47% | 0.2 |
| FE-WPP | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Misc. | Refrigeration | New | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 47% | 0.3 |
| FE-WPP | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Misc. | Refrigeration | ROB | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 47% | 0.3 |
| FE-WPP | No-heat glass doors | Standard low-temp reach-in | Misc. | Refrigeration | Existing | building | 926 | 20% | 0.2 | 10 | \$1,456 | 8% | 0.1 |
| FE-WPP | No-heat glass doors | Standard low-temp reach-in | Misc. | Refrigeration | New | building | 926 | 20% | 0.2 | 10 | \$1,456 | 8% | 0.1 |
| FE-WPP | Quick acting freezer doors | Std. Freezer Doors | Misc. | Refrigeration | Existing | building | 3,497 | 13% | 0.1 | 10 | \$809 | 56% | 0.3 |
| FE-WPP | Quick acting freezer doors | Std. Freezer Doors | Misc. | Refrigeration | New | building | 3,497 | 13% | 0.1 | 10 | \$809 | 56% | 0.3 |
| FE-WPP | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Misc. | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 30% | 0.4 |
| FE-WPP | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Misc. | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.5 |
| FE-WPP | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Misc. | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.4 |
| FE-WPP | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 30% | 1.5 |
| FE-WPP | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 2.6 |
| FE-WPP | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 2.6 |
| FE-WPP | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 30% | 1.5 |
| FE-WPP | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 3.5 |
| FE-WPP | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 3.5 |
| FE-WPP | Refrigeration Commissioning | Non-commissioned refrigeration system | Misc. | Refrigeration | Existing | building | 10,284 | 9.5% | 0.10 | 3 | \$3,556 | 85% | 0.0 |
| FE-WPP | Refrigeration Commissioning | Non-commissioned refrigeration system | Misc. | Refrigeration | New | building | 10,284 | 9.5% | 0.10 | 3 | \$3,556 | 85% | 0.0 |
| FE-WPP | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Misc. | Refrigeration | Existing | building | 3,497 | 30% | 0.3 | 4 | \$80 | 22% | 3.2 |
| FE-WPP | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Misc. | Refrigeration | Existing | building | 5,862 | 6.2% | 0.06 | 4 | \$117 | 22% | 0.7 |
| FE-WPP | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Misc. | Refrigeration | New | building | 3,497 | 30% | 0.3 | 4 | \$80 | 22% | 3.2 |
| FE-WPP | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Misc. | Refrigeration | New | building | 5,862 | 6.2% | 0.06 | 4 | \$117 | 22% | 0.7 |
| FE-WPP | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Misc. | Refrigeration | Existing | building | 3,497 | 5.8% | 0.06 | 11 | \$119 | 79% | 1.0 |
| FE-WPP | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Misc. | Refrigeration | New | building | 3,497 | 5.8% | 0.06 | 11 | \$119 | 79% | 1.0 |
| FE-WPP | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Misc. | Refrigeration | Existing | building | 5,862 | 4.5% | 0.05 | 11 | \$119 | 79% | 1.1 |
| FE-WPP | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Misc. | Refrigeration | New | building | 5,862 | 4.5% | 0.05 | 11 | \$119 | 79% | 1.1 |
| FE-WPP | Vertical Night Covers | Display cases w/out night covers-High Temperature | Misc. | Refrigeration | Existing | building | 926 | 0.6% | 0.01 | 5 | \$50 | 9% | 0.1 |
| FE-WPP | Vertical Night Covers | Display cases w/out night covers-High Temperature | Misc. | Refrigeration | New | building | 926 | 0.6% | 0.01 | 5 | \$50 | 9% | 0.1 |
| FE-WPP | VSD Controlled Compressor | Compressor w/out VSD | Misc. | Refrigeration | Early | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |
| FE-WPP | VSD Controlled Compressor | Compressor w/out VSD | Misc. | Refrigeration | New | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |
| FE-WPP | VSD Controlled Compressor | Compressor w/out VSD | Misc. | Refrigeration | ROB | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |
| FE-WPP | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Misc. | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$269 | 35% | 0.8 |
| FE-WPP | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Misc. | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$269 | 35% | 0.8 |
| FE-WPP | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Misc. | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 2.8 |
| FE-WPP | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Misc. | Refrigeration | New | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 2.7 |
| FE-WPP | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Misc. | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 2.8 |
| FE-WPP | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Misc. | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 2.7 |
| FE-WPP | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 35% | 2.1 |
| FE-WPP | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 35% | 2.0 |
| FE-WPP | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 4.6 |
| FE-WPP | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.3 |
| FE-WPP | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 4.6 |
| FE-WPP | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.3 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Misc. | Space Heating | Existing | building | 2,518 | 7.1% | 0.07 | 6 | \$12,324 | 82% | 0.0 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Misc. | Space Heating | New | building | 2,518 | 7.1% | 0.07 | 6 | \$12,324 | 82% | 0.0 |
| FE-WPP | Adding window shade film | No shade film | Misc. | Space Heating | Existing | building | 2,518 | 1.3% | 0.4 | 10 | \$31 | 13% | 8.3 |
| FE-WPP | Adding window shade film | No shade film | Misc. | Space Heating | New | building | 2,518 | 1.3% | 0.4 | 10 | \$31 | 13% | 8.3 |
| FE-WPP | Adding window shade screen | No shade screen | Misc. | Space Heating | Existing | building | 2,518 | 1.1% | 0.01 | 10 | \$12 | 13% | 1.3 |
| FE-WPP | Adding window shade screen | No shade screen | Misc. | Space Heating | New | building | 2,518 | 1.1% | 0.01 | 10 | \$12 | 13% | 1.3 |
| FE-WPP | Automated control system | Manual Controls | Misc. | Space Heating | Existing | building | 2,518 | 17% | 0.2 | 15 | \$2,757 | 51% | 0.1 |
| FE-WPP | Automated control system | Manual Controls | Misc. | Space Heating | New | building | 2,518 | 17% | 0.2 | 15 | \$2,757 | 94% | 0.1 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Misc. | Space Heating | Existing | building | 2,518 | 4.9% | 0.05 | 15 | \$17,130 | 71% | 0.0 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Misc. | Space Heating | New | building | 2,518 | 1.7% | 0.02 | 15 | \$16,283 | 94% | 0.0 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Misc. | Space Heating | Existing | building | 2,518 | 1.4% | 0.04 | 15 | \$20 | 20% | 2.5 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Misc. | Space Heating | New | building | 2,518 | 1.4% | 0.04 | 15 | \$20 | 10% | 2.5 |
| FE-WPP | Efficient Unit Heating System | Existing Unit Heaters in PA | Misc. | Space Heating | Early | heater | 30,613 | 23% | 0.05 | 15 | \$3,289 | 83% | 1.0 |
| FE-WPP | Efficient Unit Heating System | Std. Unit Heater | Misc. | Space Heating | New | heater | 27,169 | 13% | 0.03 | 15 | \$1,991 | 83% | 0.8 |
| FE-WPP | Efficient Unit Heating System | Std. Unit Heater | Misc. | Space Heating | ROB | heater | 27,169 | 13% | 0.03 | 15 | \$1,991 | 83% | 0.8 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Misc. | Space Heating | Existing | building | 2,518 | 7.1% | 0.07 | 15 | \$11,171 | 25% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|--|--|---------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Misc. | Space Heating | New | building | 2,518 | 7.1% | 0.07 | 15 | \$11,171 | 35% | 0.0 |
| FE-WPP | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Misc. | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 0.9 |
| FE-WPP | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Misc. | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 0.9 |
| FE-WPP | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Misc. | Space Heating | Existing | building | 2,518 | 2.2% | 0.02 | 10 | \$7,735 | 81% | 0.0 |
| FE-WPP | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Misc. | Space Heating | New | building | 2,518 | 2.2% | 0.02 | 10 | \$7,735 | 81% | 0.0 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Misc. | Space Heating | Existing | building | 2,518 | 3.6% | 0.04 | 11 | \$286 | 49% | 0.2 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Misc. | Space Heating | New | building | 2,518 | 3.1% | 0.03 | 11 | \$146 | 49% | 0.3 |
| FE-WPP | Re-Commissioning (Existing Construction) | No Re-Commissioning | Misc. | Space Heating | Existing | building | 2,518 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |
| FE-WPP | VFD on Cooling Tower Fan | Motor w/out VFD | Misc. | Space Heating | Early | motor | 18,724 | 70% | 0.10 | 15 | \$2,843 | 88% | 2.2 |
| FE-WPP | VFD on Cooling Tower Fan | Motor w/out VFD | Misc. | Space Heating | New | motor | 18,373 | 72% | 0.10 | 15 | \$2,843 | 88% | 2.2 |
| FE-WPP | VFD on Cooling Tower Fan | Motor w/out VFD | Misc. | Space Heating | ROB | motor | 18,373 | 72% | 0.10 | 15 | \$2,843 | 88% | 2.2 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Misc. | Space Heating | Existing | building | 2,518 | 14% | 0.1 | 15 | \$5,133 | 26% | 0.1 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Misc. | Space Heating | New | building | 2,518 | 0.4% | 0.00 | 15 | \$3,937 | 94% | 0.0 |
| FE-WPP | Green LED Traffic Light | Green Incandescent Traffic Light | Misc. | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 0% | 1.1 |
| FE-WPP | Green LED Traffic Light | Green Incandescent Traffic Light | Misc. | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| FE-WPP | Green LED Traffic Light | Green Incandescent Traffic Light | Misc. | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| FE-WPP | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Misc. | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 0% | 2.8 |
| FE-WPP | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Misc. | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-WPP | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Misc. | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-WPP | Induction Street Lighting | One 100W HPS Street Light Fixture | Misc. | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 0% | 0.3 |
| FE-WPP | Induction Street Lighting | One 100W HPS Street Light Fixture | Misc. | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.6 |
| FE-WPP | Induction Street Lighting | One 100W HPS Street Light Fixture | Misc. | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.6 |
| FE-WPP | LED Street Lighting | One 100W HPS Street Light | Misc. | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 0% | 0.2 |
| FE-WPP | LED Street Lighting | One 100W HPS Street Light | Misc. | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-WPP | LED Street Lighting | One 100W HPS Street Light | Misc. | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-WPP | Red LED Traffic Light | One Red Incandescent Traffic Light | Misc. | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 0% | 1.5 |
| FE-WPP | Red LED Traffic Light | One Red Incandescent Traffic Light | Misc. | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| FE-WPP | Red LED Traffic Light | One Red Incandescent Traffic Light | Misc. | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| FE-WPP | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Misc. | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 0% | 0.1 |
| FE-WPP | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Misc. | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-WPP | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Misc. | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-WPP | Demand controlled Circulating Systems | Constant circulation system | Misc. | Water Heating | Existing | building | 1,379 | 20% | 0.2 | 15 | \$250 | 59% | 1.2 |
| FE-WPP | Demand controlled Circulating Systems | Constant circulation system | Misc. | Water Heating | New | building | 1,379 | 20% | 0.2 | 15 | \$250 | 59% | 1.2 |
| FE-WPP | Drainwater Heat Recovery Water Heater | No heat recovery | Misc. | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.7 |
| FE-WPP | Drainwater Heat Recovery Water Heater | No heat recovery | Misc. | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.7 |
| FE-WPP | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Misc. | Water Heating | Existing | building | 1,379 | 5.9% | 0.06 | 12 | \$14 | 85% | 5.5 |
| FE-WPP | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Misc. | Water Heating | New | building | 1,379 | 5.9% | 0.06 | 12 | \$4.0 | 85% | 19.1 |
| FE-WPP | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Misc. | Water Heating | Early | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 2.8 |
| FE-WPP | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Misc. | Water Heating | Early | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 2.8 |
| FE-WPP | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Misc. | Water Heating | New | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 2.8 |
| FE-WPP | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Misc. | Water Heating | New | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 2.8 |
| FE-WPP | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Misc. | Water Heating | ROB | water heater | 10,350 | 65% | 1.2 | 10 | \$1,187 | 68% | 2.6 |
| FE-WPP | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Misc. | Water Heating | ROB | water heater | 10,350 | 65% | 1.2 | 10 | \$1,187 | 68% | 2.6 |
| FE-WPP | Heat Recovery Unit | Base Water Heating | Misc. | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.5 |
| FE-WPP | Heat Recovery Unit | Base Water Heating | Misc. | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.5 |
| FE-WPP | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Misc. | Water Heating | Early | water heater | 3,246 | 5.9% | 0.03 | 15 | \$307 | 79% | 0.4 |
| FE-WPP | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Misc. | Water Heating | Early | water heater | 3,246 | 5.9% | 0.03 | 15 | \$307 | 79% | 0.4 |
| FE-WPP | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Misc. | Water Heating | New | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.7 |
| FE-WPP | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Misc. | Water Heating | New | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.7 |
| FE-WPP | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Misc. | Water Heating | ROB | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.7 |
| FE-WPP | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Misc. | Water Heating | ROB | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.7 |
| FE-WPP | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Misc. | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$466 | 81% | 36.2 |
| FE-WPP | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Misc. | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 18.9 |
| FE-WPP | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Misc. | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 18.8 |
| FE-WPP | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Misc. | Water Heating | Existing | building | 1,379 | 2.7% | 0.03 | 13 | \$5.4 | 68% | 6.9 |
| FE-WPP | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Misc. | Water Heating | New | building | 1,379 | 2.7% | 0.03 | 13 | \$5.4 | 0% | 6.9 |
| FE-WPP | Hot Water Circulation Pump Time-Clock | Constant circulation system | Misc. | Water Heating | Existing | building | 1,379 | 5.3% | 0.05 | 10 | \$5.6 | 72% | 10.8 |
| FE-WPP | Hot Water Circulation Pump Time-Clock | Constant circulation system | Misc. | Water Heating | New | building | 1,379 | 5.3% | 0.05 | 10 | \$5.6 | 72% | 10.8 |
| FE-WPP | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Misc. | Water Heating | Existing | building | 1,268 | 2.9% | 0.03 | 7 | \$22 | 78% | 1.1 |
| FE-WPP | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Misc. | Water Heating | New | building | 1,379 | 0.8% | 0.01 | 7 | \$0.5 | 78% | 13.9 |
| FE-WPP | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Misc. | Water Heating | Existing | building | 1,379 | 13% | 0.1 | 5 | \$300 | 0% | 0.3 |
| FE-WPP | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Misc. | Water Heating | New | building | 1,379 | 9.3% | 0.09 | 5 | \$194 | 0% | 0.3 |
| FE-WPP | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Misc. | Water Heating | Existing | building | 1,379 | 6.5% | 0.07 | 9 | \$25 | 2% | 2.7 |
| FE-WPP | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Misc. | Water Heating | New | building | 1,379 | 6.5% | 0.07 | 9 | \$6.0 | 2% | 11.4 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|--|---|---------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Misc. | Water Heating | Early | water heater | 10,645 | 52% | 0.4 | 15 | \$6,222 | 32% | 0.5 |
| FE-WPP | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Misc. | Water Heating | New | water heater | 10,350 | 51% | 0.4 | 15 | \$6,222 | 32% | 0.5 |
| FE-WPP | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Misc. | Water Heating | ROB | water heater | 10,350 | 51% | 0.4 | 15 | \$6,222 | 32% | 0.5 |
| FE-WPP | Ultrasonic Faucet Control | Manual Faucet Control | Misc. | Water Heating | Existing | building | 1,379 | 3.0% | 0.03 | 10 | \$238 | 77% | 0.1 |
| FE-WPP | Ultrasonic Faucet Control | Manual Faucet Control | Misc. | Water Heating | New | building | 1,379 | 3.0% | 0.03 | 10 | \$238 | 77% | 0.1 |
| FE-WPP | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Misc. | Water Heating | Existing | building | 1,379 | 2.2% | 0.02 | 4 | \$28 | 83% | 0.4 |
| FE-WPP | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Misc. | Water Heating | New | building | 1,379 | 2.3% | 0.02 | 4 | \$28 | 83% | 0.4 |
| FE-WPP | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Office | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.0 |
| FE-WPP | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Office | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.0 |
| FE-WPP | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Office | Cooking | Early | steamer | 51 | 46% | 0.00 | 12 | \$5,053 | 81% | 0.0 |
| FE-WPP | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Office | Cooking | New | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-WPP | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Office | Cooking | ROB | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-WPP | Electric combination oven (Energy Star) | Standard Oven | Office | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.8 |
| FE-WPP | Electric combination oven (Energy Star) | Standard Oven | Office | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.8 |
| FE-WPP | Electric Convection Oven | Conventional convection oven w/ 65% efficiency | Office | Cooking | Early | oven | 8,641 | 37% | 0.6 | 12 | \$4,119 | 81% | 0.4 |
| FE-WPP | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Office | Cooking | New | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.7 |
| FE-WPP | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Office | Cooking | ROB | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.7 |
| FE-WPP | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Office | Cooking | Early | fryer | 6,105 | 23% | 0.3 | 12 | \$9,241 | 86% | 0.1 |
| FE-WPP | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Office | Cooking | New | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| FE-WPP | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Office | Cooking | ROB | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| FE-WPP | High Efficiency Griddle (ENERGY STAR) | Efficiency code minimum griddle (70% eff) | Office | Cooking | Early | griddle | 11,317 | 65% | 1.4 | 12 | \$4,977 | 86% | 0.8 |
| FE-WPP | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Office | Cooking | New | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.1 |
| FE-WPP | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Office | Cooking | ROB | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.1 |
| FE-WPP | High Efficiency Induction Cooking | Standard Cooking | Office | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-WPP | High Efficiency Induction Cooking | Standard Cooking | Office | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-WPP | Active chilled beam cooling | No Active Chilled beam cooling | Office | Cooling Central | New | building | 1,148 | 5.3% | 0.05 | 15 | \$300 | 72% | 0.3 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Office | Cooling Central | Existing | building | 1,208 | 7.0% | 0.07 | 6 | \$11,826 | 82% | 0.0 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Office | Cooling Central | New | building | 1,208 | 7.0% | 0.07 | 6 | \$11,826 | 82% | 0.0 |
| FE-WPP | Adding window shade film | No shade film | Office | Cooling Central | Existing | building | 1,208 | 1.3% | 0.4 | 10 | \$15 | 12% | 16.8 |
| FE-WPP | Adding window shade film | No shade film | Office | Cooling Central | New | building | 1,208 | 1.3% | 0.4 | 10 | \$15 | 13% | 16.8 |
| FE-WPP | Adding window shade screen | No shade screen | Office | Cooling Central | Existing | building | 1,208 | 1.1% | 0.01 | 10 | \$5.7 | 13% | 1.9 |
| FE-WPP | Adding window shade screen | No shade screen | Office | Cooling Central | New | building | 1,208 | 1.0% | 0.01 | 10 | \$5.7 | 13% | 1.9 |
| FE-WPP | Automated control system | Manual Controls | Office | Cooling Central | Existing | building | 1,208 | 17% | 0.2 | 15 | \$1,323 | 51% | 0.2 |
| FE-WPP | Automated control system | Manual Controls | Office | Cooling Central | New | building | 1,208 | 17% | 0.2 | 15 | \$1,323 | 94% | 0.2 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Office | Cooling Central | Existing | building | 1,208 | 4.9% | 0.05 | 15 | \$16,437 | 71% | 0.0 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Office | Cooling Central | New | building | 1,208 | 2.3% | 0.02 | 15 | \$15,624 | 94% | 0.0 |
| FE-WPP | Chilled Water Reset, Optimizer System for Chiller(s) | No Chilled Water Reset | Office | Cooling Central | Existing | building | 1,208 | 3.7% | 0.04 | 10 | \$5.5 | 69% | 7.3 |
| FE-WPP | Chiller Tune Up Diagnostics | No Chiller Tune Up | Office | Cooling Central | Existing | building | 1,208 | 2.3% | 0.02 | 10 | \$1.2 | 59% | 20.4 |
| FE-WPP | Chiller Tuneup/Diagnostics | No tuneup | Office | Cooling Central | Existing | building | 1,208 | 8.0% | 0.08 | 10 | \$3,085 | 59% | 0.0 |
| FE-WPP | Chiller Tuneup/Diagnostics | No tuneup | Office | Cooling Central | New | building | 1,208 | 8.0% | 0.08 | 10 | \$3,085 | 59% | 0.0 |
| FE-WPP | Cooling Tower Optimization | No Cooling Tower Optimization | Office | Cooling Central | Existing | building | 1,208 | 15% | 0.1 | 10 | \$16 | 73% | 9.7 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Office | Cooling Central | Existing | building | 1,208 | 1.4% | 0.04 | 15 | \$9.6 | 20% | 4.4 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Office | Cooling Central | New | building | 1,208 | 1.4% | 0.04 | 15 | \$9.6 | 10% | 4.4 |
| FE-WPP | Facility Commissioning | No Facility Commissioning | Office | Cooling Central | New | building | 1,208 | 16% | 0.2 | 10 | \$45,446 | 89% | 0.0 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Office | Cooling Central | Existing | building | 1,208 | 7.0% | 0.07 | 15 | \$5,360 | 25% | 0.0 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Office | Cooling Central | New | building | 1,208 | 7.0% | 0.07 | 15 | \$5,360 | 35% | 0.0 |
| FE-WPP | Hi Eff HVAC System Design | No HVAC Design | Office | Cooling Central | New | building | 1,208 | 0.8% | 0.01 | 10 | \$1,030 | 51% | 0.0 |
| FE-WPP | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Office | Cooling Central | Early | ton | 5,094 | 24% | 0.4 | 15 | \$108,550 | 88% | 0.0 |
| FE-WPP | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Office | Cooling Central | New | ton | 4,164 | 6.7% | 0.10 | 15 | \$12,927 | 88% | 0.0 |
| FE-WPP | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Office | Cooling Central | ROB | ton | 4,164 | 6.7% | 0.10 | 15 | \$12,927 | 88% | 0.0 |
| FE-WPP | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Office | Cooling Central | Early | ton | 7,611 | 23% | 0.6 | 15 | \$140,105 | 88% | 0.0 |
| FE-WPP | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Office | Cooling Central | New | ton | 6,124 | 4.8% | 0.1 | 15 | \$9,336 | 88% | 0.0 |
| FE-WPP | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Office | Cooling Central | ROB | ton | 6,124 | 4.8% | 0.1 | 15 | \$9,336 | 88% | 0.0 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Office | Cooling Central | Early | ton | 62,308 | 26% | 5.6 | 15 | \$105,354 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Office | Cooling Central | New | ton | 54,288 | 15% | 2.8 | 15 | \$30,530 | 88% | 0.2 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Office | Cooling Central | ROB | ton | 54,288 | 15% | 2.8 | 15 | \$30,530 | 88% | 0.2 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Office | Cooling Central | Early | ton | 93,320 | 23% | 7.4 | 15 | \$154,107 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Office | Cooling Central | New | ton | 85,726 | 16% | 4.8 | 15 | \$27,646 | 88% | 0.4 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Office | Cooling Central | ROB | ton | 93,320 | 23% | 7.4 | 15 | \$27,646 | 88% | 0.6 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|--|--|---------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Office | Cooling Central | Early | ton | 154,988 | 23% | 12.2 | 15 | \$302,924 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Office | Cooling Central | New | ton | 140,275 | 14% | 7.0 | 15 | \$115,432 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Office | Cooling Central | ROB | ton | 154,988 | 23% | 12.2 | 15 | \$115,432 | 88% | 0.2 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Office | Cooling Central | Early | ton | 185,985 | 23% | 14.6 | 15 | \$350,154 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Office | Cooling Central | New | ton | 168,330 | 14% | 8.5 | 15 | \$120,406 | 88% | 0.2 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Office | Cooling Central | ROB | ton | 185,985 | 23% | 14.6 | 15 | \$120,406 | 88% | 0.3 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Office | Cooling Central | Early | ton | 41,225 | 29% | 4.2 | 15 | \$83,632 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Office | Cooling Central | New | ton | 32,011 | 8.9% | 1.0 | 15 | \$40,211 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Office | Cooling Central | ROB | ton | 41,225 | 29% | 4.2 | 15 | \$40,211 | 88% | 0.2 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Office | Cooling Central | Early | ton | 70,835 | 35% | 8.6 | 15 | \$132,173 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Office | Cooling Central | New | ton | 52,831 | 13% | 2.3 | 15 | \$39,556 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Office | Cooling Central | ROB | ton | 52,831 | 13% | 2.3 | 15 | \$39,556 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Office | Cooling Central | Early | ton | 118,265 | 39% | 16.1 | 15 | \$187,029 | 88% | 0.2 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Office | Cooling Central | New | ton | 84,321 | 15% | 4.3 | 15 | \$33,554 | 88% | 0.3 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Office | Cooling Central | ROB | ton | 118,265 | 39% | 16.1 | 15 | \$33,554 | 88% | 1.1 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Office | Cooling Central | Early | ton | 20,695 | 30% | 2.1 | 15 | \$32,398 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Office | Cooling Central | New | ton | 16,396 | 11% | 0.6 | 15 | \$7,188 | 88% | 0.2 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Office | Cooling Central | ROB | ton | 20,695 | 30% | 2.1 | 15 | \$7,188 | 88% | 0.7 |
| FE-WPP | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Office | Cooling Central | Existing | building | 1,208 | 2.8% | 0.03 | 10 | \$5,350 | 81% | 0.0 |
| FE-WPP | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Office | Cooling Central | New | building | 1,208 | 2.8% | 0.03 | 10 | \$5,350 | 81% | 0.0 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Office | Cooling Central | Existing | building | 1,208 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.1 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Office | Cooling Central | New | building | 1,208 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.1 |
| FE-WPP | Re-Commissioning (Existing Construction) | No Re-Commissioning | Office | Cooling Central | Existing | building | 1,208 | 16% | 0.2 | 5 | \$7,777 | 86% | 0.0 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Office | Cooling Central | Existing | building | 1,208 | 15% | 0.2 | 15 | \$5,028 | 26% | 0.0 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Office | Cooling Central | New | building | 1,208 | 0.5% | 0.01 | 15 | \$3,857 | 94% | 0.0 |
| FE-WPP | <65k BTU/hr 14 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Office | Cooling Unitary | Early | ton | 2,203 | 16% | 0.2 | 15 | \$1,545 | 29% | 0.2 |
| FE-WPP | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Office | Cooling Unitary | New | ton | 1,995 | 7.1% | 0.07 | 15 | \$339 | 29% | 0.4 |
| FE-WPP | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Office | Cooling Unitary | ROB | ton | 1,995 | 7.1% | 0.07 | 15 | \$339 | 29% | 0.4 |
| FE-WPP | <65k BTU/hr 15 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Office | Cooling Unitary | Early | ton | 2,203 | 22% | 0.2 | 15 | \$1,821 | 30% | 0.2 |
| FE-WPP | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Office | Cooling Unitary | New | ton | 1,995 | 13% | 0.1 | 15 | \$714 | 30% | 0.3 |
| FE-WPP | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Office | Cooling Unitary | ROB | ton | 1,995 | 13% | 0.1 | 15 | \$714 | 30% | 0.3 |
| FE-WPP | <65k BTU/hr 16 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Office | Cooling Unitary | Early | ton | 2,203 | 26% | 0.3 | 15 | \$2,098 | 31% | 0.3 |
| FE-WPP | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Office | Cooling Unitary | New | ton | 1,995 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.3 |
| FE-WPP | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Office | Cooling Unitary | ROB | ton | 1,995 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.3 |
| FE-WPP | >760k min 10.2 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Office | Cooling Unitary | Early | ton | 55,737 | 3.7% | 1.0 | 15 | \$68,066 | 56% | 0.0 |
| FE-WPP | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Office | Cooling Unitary | New | ton | 56,452 | 4.9% | 1.3 | 15 | \$6,231 | 56% | 0.4 |
| FE-WPP | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Office | Cooling Unitary | ROB | ton | 56,452 | 4.9% | 1.3 | 15 | \$6,231 | 56% | 0.4 |
| FE-WPP | 135-240k min 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Office | Cooling Unitary | Early | ton | 13,714 | 18% | 1.2 | 15 | \$18,135 | 79% | 0.1 |
| FE-WPP | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Office | Cooling Unitary | New | ton | 12,475 | 10.0% | 0.6 | 15 | \$1,948 | 79% | 0.6 |
| FE-WPP | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Office | Cooling Unitary | ROB | ton | 12,475 | 10.0% | 0.6 | 15 | \$1,948 | 79% | 0.6 |
| FE-WPP | 240k-760k min 11 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Office | Cooling Unitary | Early | ton | 36,669 | 9.0% | 1.6 | 15 | \$44,809 | 66% | 0.1 |
| FE-WPP | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Office | Cooling Unitary | New | ton | 36,760 | 9.3% | 1.6 | 15 | \$4,813 | 66% | 0.6 |
| FE-WPP | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Office | Cooling Unitary | ROB | ton | 36,760 | 9.3% | 1.6 | 15 | \$4,813 | 66% | 0.6 |
| FE-WPP | 65k-135k BTU/hr 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Office | Cooling Unitary | Early | ton | 8,084 | 17% | 0.7 | 15 | \$10,946 | 86% | 0.1 |
| FE-WPP | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Office | Cooling Unitary | New | ton | 7,205 | 6.7% | 0.2 | 15 | \$1,392 | 86% | 0.3 |
| FE-WPP | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Office | Cooling Unitary | ROB | ton | 7,205 | 6.7% | 0.2 | 15 | \$1,392 | 86% | 0.3 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Office | Cooling Unitary | Existing | building | 20,178 | 7.0% | 0.07 | 6 | \$11,826 | 82% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|---|---------|-----------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Adding reflective roof treatment | Std color roof | Office | Cooling Unitary | New | building | 20,178 | 7.0% | 0.07 | 6 | \$11,826 | 82% | 0.0 |
| FE-WPP | Adding window shade film | No shade film | Office | Cooling Unitary | Existing | building | 20,178 | 1.3% | 0.4 | 10 | \$246 | 12% | 1.4 |
| FE-WPP | Adding window shade film | No shade film | Office | Cooling Unitary | New | building | 20,178 | 1.3% | 0.4 | 10 | \$246 | 13% | 1.4 |
| FE-WPP | Adding window shade screen | No shade screen | Office | Cooling Unitary | Existing | building | 20,178 | 1.1% | 0.01 | 10 | \$95 | 12% | 0.9 |
| FE-WPP | Adding window shade screen | No shade screen | Office | Cooling Unitary | New | building | 20,178 | 1.1% | 0.01 | 10 | \$95 | 13% | 0.9 |
| FE-WPP | Automated control system | Manual Controls | Office | Cooling Unitary | Existing | building | 20,178 | 17% | 0.2 | 15 | \$22,090 | 51% | 0.1 |
| FE-WPP | Automated control system | Manual Controls | Office | Cooling Unitary | New | building | 20,178 | 17% | 0.2 | 15 | \$22,090 | 94% | 0.1 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Office | Cooling Unitary | Existing | building | 20,178 | 4.9% | 0.05 | 15 | \$16,437 | 71% | 0.0 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Office | Cooling Unitary | New | building | 20,178 | 2.3% | 0.02 | 15 | \$15,624 | 94% | 0.0 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Office | Cooling Unitary | Existing | building | 20,178 | 1.4% | 0.04 | 15 | \$160 | 20% | 1.1 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Office | Cooling Unitary | New | building | 20,178 | 1.4% | 0.04 | 15 | \$160 | 10% | 1.1 |
| FE-WPP | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Office | Cooling Unitary | Existing | building | 11,098 | 13% | 0.1 | 1 | \$106 | 73% | 0.8 |
| FE-WPP | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Office | Cooling Unitary | New | building | 11,098 | 13% | 0.1 | 1 | \$106 | 73% | 0.8 |
| FE-WPP | ECM Motors for split systems | Std Shaded Pole Motor | Office | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.7 |
| FE-WPP | ECM Motors for split systems | Std Shaded Pole Motor | Office | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.7 |
| FE-WPP | Facility Commissioning | No Facility Commissioning | Office | Cooling Unitary | New | building | 20,178 | 16% | 0.2 | 10 | \$598 | 89% | 2.1 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Office | Cooling Unitary | Existing | building | 20,178 | 7.1% | 0.07 | 15 | \$89,506 | 25% | 0.0 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Office | Cooling Unitary | New | building | 20,178 | 7.0% | 0.07 | 15 | \$89,506 | 35% | 0.0 |
| FE-WPP | Hi Eff HVAC System Design | No HVAC Design | Office | Cooling Unitary | New | building | 20,178 | 0.8% | 0.01 | 10 | \$104 | 51% | 0.6 |
| FE-WPP | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Office | Cooling Unitary | Existing | building | 20,178 | 5.0% | 0.05 | 5 | \$225 | 59% | 1.0 |
| FE-WPP | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Office | Cooling Unitary | Existing | building | 20,178 | 0.5% | 0.04 | 5 | \$225 | 51% | 0.2 |
| FE-WPP | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Office | Cooling Unitary | New | building | 20,178 | 0.5% | 0.04 | 5 | \$135 | 51% | 0.2 |
| FE-WPP | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Office | Cooling Unitary | Existing | building | 20,178 | 2.8% | 0.03 | 10 | \$5,750 | 86% | 0.0 |
| FE-WPP | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Office | Cooling Unitary | New | building | 20,178 | 2.8% | 0.03 | 10 | \$5,750 | 86% | 0.0 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) | Office | Cooling Unitary | Existing | building | 20,178 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.6 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Office | Cooling Unitary | New | building | 20,178 | 1.7% | 0.02 | 11 | \$146 | 49% | 1.0 |
| FE-WPP | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Office | Cooling Unitary | Early | unit | 569 | 19% | 0.08 | 15 | \$849 | 85% | 0.1 |
| FE-WPP | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Office | Cooling Unitary | New | unit | 575 | 20% | 0.09 | 15 | \$356 | 85% | 0.4 |
| FE-WPP | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Office | Cooling Unitary | ROB | unit | 575 | 20% | 0.09 | 15 | \$356 | 85% | 0.4 |
| FE-WPP | Re-Commissioning (Existing Construction) | No Re-Commissioning | Office | Cooling Unitary | Existing | building | 20,178 | 16% | 0.2 | 5 | \$7,777 | 86% | 0.1 |
| FE-WPP | Room AC (w/ louvered sides) | Exisiting efficiency Room AC in Pennsylvania (2000 Federal Standards) | Office | Cooling Unitary | Early | ton | 660 | 13% | 0.03 | 9 | \$348 | 82% | 0.1 |
| FE-WPP | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Office | Cooling Unitary | New | ton | 599 | 4.5% | 0.01 | 9 | \$17 | 82% | 0.8 |
| FE-WPP | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Office | Cooling Unitary | ROB | ton | 599 | 4.5% | 0.01 | 9 | \$17 | 82% | 0.8 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Office | Cooling Unitary | Existing | building | 20,178 | 15% | 0.2 | 15 | \$5,028 | 26% | 0.3 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Office | Cooling Unitary | New | building | 20,178 | 0.5% | 0.01 | 15 | \$3,857 | 94% | 0.0 |
| FE-WPP | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Office | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 1.0 |
| FE-WPP | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Office | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.3 |
| FE-WPP | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Office | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.3 |
| FE-WPP | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Office | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 0% | 0.2 |
| FE-WPP | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Office | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-WPP | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Office | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-WPP | LED exterior lighting | 250 Watt Incandescent | Office | Ext. Lighting | ROB | measure | 262 | 83% | 0.05 | 15 | \$104 | 89% | 1.4 |
| FE-WPP | LED exterior lighting | 250 Watt Incandescent | Office | Ext. Lighting | ROB | measure | 277 | 83% | 0.05 | 15 | \$104 | 89% | 1.5 |
| FE-WPP | LED exterior lighting | 250 Watt Incandescent | Office | Ext. Lighting | ROB | measure | 277 | 83% | 0.05 | 15 | \$104 | 89% | 1.5 |
| FE-WPP | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Office | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 53% | 0.3 |
| FE-WPP | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Office | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 53% | 0.2 |
| FE-WPP | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Office | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 53% | 2.6 |
| FE-WPP | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Office | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 53% | 2.0 |
| FE-WPP | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Office | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 53% | 2.6 |
| FE-WPP | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Office | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 53% | 2.0 |
| FE-WPP | Photocell Controls (Outdoor) | Lighting w/ No Controls | Office | Ext. Lighting | Existing | building | 161 | 28% | 0.3 | 8 | \$3,091 | 88% | 0.1 |
| FE-WPP | Photocell Controls (Outdoor) | Lighting w/ No Controls | Office | Ext. Lighting | New | building | 161 | 28% | 0.3 | 8 | \$3,091 | 0% | 0.1 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Office | Heat Pump | Existing | building | 2,269 | 6.9% | 0.07 | 6 | \$11,826 | 82% | 0.0 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Office | Heat Pump | New | building | 2,269 | 6.9% | 0.07 | 6 | \$11,826 | 82% | 0.0 |
| FE-WPP | Adding window shade film | No shade film | Office | Heat Pump | Existing | building | 2,269 | 3.9% | 0.4 | 10 | \$28 | 12% | 9.8 |
| FE-WPP | Adding window shade film | No shade film | Office | Heat Pump | New | building | 2,269 | 3.9% | 0.4 | 10 | \$28 | 12% | 9.8 |
| FE-WPP | Adding window shade screen | No shade screen | Office | Heat Pump | Existing | building | 2,269 | 0.3% | 0.01 | 10 | \$3.6 | 12% | 2.6 |
| FE-WPP | Adding window shade screen | No shade screen | Office | Heat Pump | New | building | 2,269 | 0.3% | 0.01 | 10 | \$3.6 | 12% | 2.6 |
| FE-WPP | Automated control system | Manual Controls | Office | Heat Pump | Existing | building | 2,269 | 17% | 0.2 | 15 | \$2,484 | 51% | 0.1 |
| FE-WPP | Automated control system | Manual Controls | Office | Heat Pump | New | building | 2,269 | 17% | 0.2 | 15 | \$2,484 | 94% | 0.1 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Office | Heat Pump | Existing | building | 2,269 | 4.9% | 0.05 | 15 | \$16,437 | 71% | 0.0 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Office | Heat Pump | New | building | 2,269 | 2.3% | 0.02 | 15 | \$15,624 | 94% | 0.0 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Office | Heat Pump | Existing | building | 2,269 | 4.0% | 0.04 | 15 | \$18 | 12% | 4.3 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Office | Heat Pump | New | building | 2,269 | 4.0% | 0.04 | 15 | \$18 | 6% | 4.3 |
| FE-WPP | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Office | Heat Pump | Early | heat pump | 1,025 | 13% | 0.01 | 15 | \$4,070 | 83% | 0.0 |
| FE-WPP | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Office | Heat Pump | New | heat pump | 968 | 7.7% | 0.01 | 15 | \$1,097 | 83% | 0.0 |
| FE-WPP | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Office | Heat Pump | ROB | heat pump | 968 | 7.7% | 0.01 | 15 | \$1,097 | 83% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|--|--|---------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Facility Commissioning | No Facility Commissioning | Office | Heat Pump | New | building | 2,269 | 16% | 0.2 | 10 | \$45,446 | 89% | 0.0 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Office | Heat Pump | Existing | building | 2,269 | 7.0% | 0.07 | 15 | \$10,064 | 25% | 0.0 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Office | Heat Pump | New | building | 2,269 | 7.0% | 0.07 | 15 | \$10,064 | 35% | 0.0 |
| FE-WPP | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Office | Heat Pump | Early | heat pump | 10,751 | 18% | 0.2 | 15 | \$91,117 | 19% | 0.0 |
| FE-WPP | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Office | Heat Pump | New | heat pump | 10,274 | 15% | 0.1 | 15 | \$33,927 | 19% | 0.0 |
| FE-WPP | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Office | Heat Pump | ROB | heat pump | 10,274 | 15% | 0.1 | 15 | \$33,927 | 19% | 0.0 |
| FE-WPP | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Office | Heat Pump | Early | heat pump | 10,751 | 18% | 0.2 | 15 | \$58,356 | 19% | 0.0 |
| FE-WPP | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Office | Heat Pump | New | heat pump | 10,274 | 15% | 0.1 | 15 | \$1,167 | 19% | 0.7 |
| FE-WPP | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Office | Heat Pump | ROB | heat pump | 10,274 | 15% | 0.1 | 15 | \$1,167 | 19% | 0.7 |
| FE-WPP | Hi Eff HVAC System Design | No HVAC Design | Office | Heat Pump | New | building | 2,269 | 0.7% | 0.01 | 10 | \$1,030 | 51% | 0.0 |
| FE-WPP | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Office | Heat Pump | Early | heat pump | 2,734 | 18% | 0.04 | 12 | \$4,298 | 81% | 0.1 |
| FE-WPP | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Office | Heat Pump | New | heat pump | 2,580 | 13% | 0.03 | 12 | \$852 | 81% | 0.2 |
| FE-WPP | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Office | Heat Pump | ROB | heat pump | 2,580 | 13% | 0.03 | 12 | \$852 | 81% | 0.2 |
| FE-WPP | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Office | Heat Pump | Existing | building | 2,269 | 5.0% | 0.01 | 5 | \$90 | 51% | 0.3 |
| FE-WPP | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Office | Heat Pump | New | building | 2,269 | 5.0% | 0.01 | 5 | \$90 | 51% | 0.3 |
| FE-WPP | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Office | Heat Pump | Existing | building | 2,269 | 2.8% | 0.03 | 10 | \$5,119 | 81% | 0.0 |
| FE-WPP | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Office | Heat Pump | New | building | 2,269 | 2.8% | 0.03 | 10 | \$5,119 | 81% | 0.0 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Office | Heat Pump | Existing | building | 2,269 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.1 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Office | Heat Pump | New | building | 2,269 | 2.1% | 0.02 | 11 | \$146 | 49% | 0.2 |
| FE-WPP | Re-Commissioning (Existing Construction) | No Re-Commissioning | Office | Heat Pump | Existing | building | 2,269 | 16% | 0.2 | 5 | \$7,777 | 86% | 0.0 |
| FE-WPP | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Office | Heat Pump | New | measure | 1,496,631 | 2.0% | 3.4 | 13 | \$188,409 | 43% | 0.1 |
| FE-WPP | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Office | Heat Pump | ROB | measure | 1,496,631 | 2.0% | 3.4 | 13 | \$188,409 | 43% | 0.1 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Office | Heat Pump | Existing | building | 2,269 | 15% | 0.2 | 15 | \$5,028 | 26% | 0.1 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Office | Heat Pump | New | building | 2,269 | 0.5% | 0.01 | 15 | \$3,857 | 94% | 0.0 |
| FE-WPP | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Office | Heat Pump | Early | heat pump | 4,292 | 32% | 0.1 | 15 | \$35,347 | 28% | 0.0 |
| FE-WPP | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Office | Heat Pump | New | heat pump | 4,021 | 27% | 0.09 | 15 | \$15,739 | 28% | 0.0 |
| FE-WPP | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Office | Heat Pump | ROB | heat pump | 4,021 | 27% | 0.09 | 15 | \$15,739 | 28% | 0.0 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Office | High Bay Lighting | Early | Fixture | 483 | 9.6% | 0.01 | 13 | \$850 | 39% | 0.0 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Office | High Bay Lighting | Early | Fixture | 483 | 9.5% | 0.01 | 13 | \$850 | 28% | 0.0 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Office | High Bay Lighting | Early | Fixture | 745 | 41% | 0.08 | 13 | \$850 | 36% | 0.2 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Office | High Bay Lighting | New | Fixture | 367 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Office | High Bay Lighting | New | Fixture | 342 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Office | High Bay Lighting | New | Fixture | 566 | 41% | 0.06 | 13 | \$397 | 36% | 0.4 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Office | High Bay Lighting | ROB | Fixture | 483 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Office | High Bay Lighting | ROB | Fixture | 450 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Office | High Bay Lighting | ROB | Fixture | 745 | 41% | 0.08 | 13 | \$397 | 36% | 0.5 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Office | High Bay Lighting | Early | Fixture | 938 | 19% | 0.05 | 13 | \$851 | 38% | 0.1 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Office | High Bay Lighting | Early | Fixture | 950 | 20% | 0.05 | 13 | \$851 | 38% | 0.1 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | Early | Fixture | 2,762 | 73% | 0.5 | 13 | \$851 | 38% | 1.5 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Office | High Bay Lighting | New | Fixture | 713 | 19% | 0.03 | 13 | \$372 | 38% | 0.2 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | New | Fixture | 2,099 | 73% | 0.4 | 13 | \$383 | 38% | 2.5 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Office | High Bay Lighting | ROB | Fixture | 938 | 19% | 0.05 | 13 | \$372 | 38% | 0.3 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | ROB | Fixture | 2,762 | 73% | 0.5 | 13 | \$383 | 38% | 3.3 |
| FE-WPP | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Office | High Bay Lighting | Early | Fixture | 938 | 25% | 0.06 | 13 | \$554 | 29% | 0.3 |
| FE-WPP | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Office | High Bay Lighting | Early | Fixture | 920 | 23% | 0.05 | 13 | \$554 | 28% | 0.2 |
| FE-WPP | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | Early | Fixture | 2,762 | 74% | 0.5 | 13 | \$554 | 36% | 2.3 |
| FE-WPP | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Office | High Bay Lighting | New | Fixture | 713 | 25% | 0.04 | 13 | \$75 | 29% | 1.5 |
| FE-WPP | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | New | Fixture | 2,099 | 74% | 0.4 | 13 | \$86 | 36% | 11.4 |
| FE-WPP | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Office | High Bay Lighting | ROB | Fixture | 938 | 25% | 0.06 | 13 | \$75 | 29% | 1.9 |
| FE-WPP | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | ROB | Fixture | 2,762 | 74% | 0.5 | 13 | \$86 | 36% | 15.0 |
| FE-WPP | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Office | High Bay Lighting | Early | Fixture | 245 | 0.2% | 0.00 | 13 | \$835 | 38% | 0.0 |
| FE-WPP | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Office | High Bay Lighting | Early | Fixture | 527 | 54% | 0.07 | 13 | \$835 | 38% | 0.2 |
| FE-WPP | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Office | High Bay Lighting | New | Fixture | 400 | 54% | 0.05 | 13 | \$382 | 38% | 0.4 |
| FE-WPP | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Office | High Bay Lighting | ROB | Fixture | 527 | 54% | 0.07 | 13 | \$382 | 38% | 0.5 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Office | High Bay Lighting | Early | Fixture | 1,195 | 18% | 0.05 | 13 | \$487 | 25% | 0.3 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Office | High Bay Lighting | Early | Fixture | 1,249 | 22% | 0.07 | 13 | \$487 | 28% | 0.4 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | Early | Fixture | 2,762 | 65% | 0.4 | 13 | \$487 | 36% | 2.3 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Office | High Bay Lighting | New | Fixture | 908 | 18% | 0.04 | 13 | \$16 | 25% | 6.4 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | New | Fixture | 2,099 | 65% | 0.3 | 13 | \$18 | 36% | 46.3 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Office | High Bay Lighting | ROB | Fixture | 1,195 | 18% | 0.05 | 13 | \$16 | 25% | 8.4 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | ROB | Fixture | 2,762 | 65% | 0.4 | 13 | \$18 | 36% | 60.9 |
| FE-WPP | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Office | High Bay Lighting | Early | Fixture | 1,195 | 1.5% | 0.00 | 13 | \$557 | 19% | 0.0 |
| FE-WPP | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Office | High Bay Lighting | Early | Fixture | 1,230 | 4.3% | 0.01 | 13 | \$557 | 19% | 0.1 |
| FE-WPP | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | Early | Fixture | 2,762 | 57% | 0.4 | 13 | \$557 | 19% | 1.8 |
| FE-WPP | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Office | High Bay Lighting | New | Fixture | 908 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|---|---------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | New | Fixture | 2,099 | 57% | 0.3 | 13 | \$88 | 19% | 8.6 |
| FE-WPP | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Office | High Bay Lighting | ROB | Fixture | 1,195 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| FE-WPP | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | ROB | Fixture | 2,762 | 57% | 0.4 | 13 | \$88 | 19% | 11.3 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Office | High Bay Lighting | Early | Fixture | 507 | 29% | 0.03 | 13 | \$492 | 71% | 0.2 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Office | High Bay Lighting | Early | Fixture | 424 | 15% | 0.01 | 13 | \$492 | 95% | 0.1 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Office | High Bay Lighting | Early | Fixture | 630 | 43% | 0.05 | 13 | \$492 | 95% | 0.3 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Office | High Bay Lighting | Early | Fixture | 584 | 38% | 0.04 | 13 | \$492 | 95% | 0.3 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Office | High Bay Lighting | New | Fixture | 322 | 15% | 0.01 | 13 | \$25 | 95% | 1.1 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Office | High Bay Lighting | New | Fixture | 479 | 43% | 0.04 | 13 | \$51 | 95% | 2.3 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Office | High Bay Lighting | ROB | Fixture | 424 | 15% | 0.01 | 13 | \$25 | 95% | 1.5 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Office | High Bay Lighting | ROB | Fixture | 630 | 43% | 0.05 | 13 | \$51 | 95% | 3.0 |
| FE-WPP | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Office | High Bay Lighting | Early | lamp | 86 | 16% | 0.00 | 12 | \$7.7 | 99% | 1.0 |
| FE-WPP | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Office | High Bay Lighting | New | lamp | 51 | 13% | 0.00 | 12 | \$1.6 | 91% | 2.3 |
| FE-WPP | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Office | High Bay Lighting | ROB | lamp | 82 | 13% | 0.00 | 12 | \$1.6 | 91% | 3.7 |
| FE-WPP | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Office | High Bay Lighting | Early | Fixture | 2,826 | 23% | 0.2 | 13 | \$613 | 5% | 0.7 |
| FE-WPP | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Office | High Bay Lighting | Early | Fixture | 2,220 | 1.6% | 0.01 | 13 | \$613 | 28% | 0.0 |
| FE-WPP | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Office | High Bay Lighting | Early | Fixture | 5,524 | 60% | 0.8 | 13 | \$613 | 18% | 3.4 |
| FE-WPP | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Office | High Bay Lighting | New | Fixture | 2,148 | 23% | 0.1 | 13 | \$96 | 5% | 3.2 |
| FE-WPP | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Office | High Bay Lighting | ROB | Fixture | 2,826 | 23% | 0.2 | 13 | \$96 | 5% | 4.2 |
| FE-WPP | Auto Off Time Switch | Lighting w/ No Controls | Office | High Bay Lighting | Existing | building | 232 | 24% | 0.2 | 8 | \$628 | 13% | 0.2 |
| FE-WPP | Auto Off Time Switch | Lighting w/ No Controls | Office | High Bay Lighting | New | building | 232 | 6.9% | 0.07 | 8 | \$628 | 0% | 0.1 |
| FE-WPP | Central Lighting Control System | Lighting w/ No Controls | Office | High Bay Lighting | Existing | building | 232 | 38% | 0.4 | 8 | \$628 | 13% | 0.4 |
| FE-WPP | Central Lighting Control System | Lighting w/ No Controls | Office | High Bay Lighting | New | building | 232 | 14% | 0.1 | 8 | \$628 | 13% | 0.1 |
| FE-WPP | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Office | High Bay Lighting | New | building | 232 | 10% | 0.1 | 15 | \$28,258 | 32% | 0.0 |
| FE-WPP | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Office | High Bay Lighting | New | building | 232 | 15% | 0.2 | 15 | \$70,645 | 32% | 0.0 |
| FE-WPP | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Office | High Bay Lighting | New | building | 232 | 30% | 0.3 | 15 | \$101,258 | 32% | 0.0 |
| FE-WPP | Indoor Daylight Sensors | Lighting w/ No Controls | Office | High Bay Lighting | Existing | building | 232 | 28% | 0.3 | 8 | \$3,091 | 13% | 0.1 |
| FE-WPP | Indoor Daylight Sensors | Lighting w/ No Controls | Office | High Bay Lighting | New | building | 232 | 4.1% | 0.04 | 8 | \$3,091 | 0% | 0.0 |
| FE-WPP | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Office | High Bay Lighting | Early | Fixture | 2,826 | 92% | 0.7 | 13 | \$1,916 | 95% | 0.9 |
| FE-WPP | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | Early | Fixture | 5,524 | 96% | 1.3 | 13 | \$1,916 | 95% | 1.7 |
| FE-WPP | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Office | High Bay Lighting | New | Fixture | 2,148 | 92% | 0.5 | 13 | \$1,468 | 95% | 0.8 |
| FE-WPP | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | New | Fixture | 4,198 | 96% | 1.0 | 13 | \$1,149 | 95% | 2.2 |
| FE-WPP | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Office | High Bay Lighting | ROB | Fixture | 2,826 | 92% | 0.7 | 13 | \$1,468 | 95% | 1.1 |
| FE-WPP | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | ROB | Fixture | 5,524 | 96% | 1.3 | 13 | \$1,149 | 95% | 2.9 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Office | High Bay Lighting | Early | Fixture | 938 | 67% | 0.2 | 13 | \$960 | 95% | 0.4 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Office | High Bay Lighting | Early | Fixture | 2,762 | 89% | 0.6 | 13 | \$960 | 95% | 1.6 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Office | High Bay Lighting | Early | Fixture | 758 | 59% | 0.1 | 13 | \$960 | 95% | 0.3 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Office | High Bay Lighting | New | Fixture | 713 | 67% | 0.1 | 13 | \$480 | 95% | 0.6 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Office | High Bay Lighting | New | Fixture | 2,099 | 89% | 0.5 | 13 | \$491 | 95% | 2.4 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Office | High Bay Lighting | New | Fixture | 576 | 59% | 0.08 | 13 | \$406 | 95% | 0.5 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Office | High Bay Lighting | ROB | Fixture | 938 | 67% | 0.2 | 13 | \$480 | 95% | 0.8 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Office | High Bay Lighting | ROB | Fixture | 2,762 | 89% | 0.6 | 13 | \$491 | 95% | 3.1 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Office | High Bay Lighting | ROB | Fixture | 758 | 59% | 0.1 | 13 | \$406 | 95% | 0.7 |
| FE-WPP | Occupancy Sensor | Lighting w/ No Controls | Office | High Bay Lighting | Existing | building | 232 | 24% | 0.2 | 8 | \$946 | 12% | 0.2 |
| FE-WPP | Occupancy Sensor | Lighting w/ No Controls | Office | High Bay Lighting | New | building | 232 | 6.9% | 0.07 | 8 | \$946 | 0% | 0.0 |
| FE-WPP | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Office | High Bay Lighting | Existing | building | 232 | 28% | 0.3 | 8 | \$3,091 | 12% | 0.1 |
| FE-WPP | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Office | High Bay Lighting | New | building | 232 | 4.0% | 0.04 | 8 | \$3,091 | 0% | 0.0 |
| FE-WPP | Time Clock Control | Lighting w/ No Controls | Office | High Bay Lighting | Existing | building | 232 | 28% | 0.3 | 8 | \$628 | 13% | 0.3 |
| FE-WPP | Time Clock Control | Lighting w/ No Controls | Office | High Bay Lighting | New | building | 232 | 4.1% | 0.04 | 8 | \$628 | 0% | 0.0 |
| FE-WPP | Auto Off Time Switch | Lighting w/ No Controls | Office | Lin. Fluor. Lighting | Existing | building | 14,191 | 24% | 0.2 | 8 | \$628 | 13% | 1.8 |
| FE-WPP | Auto Off Time Switch | Lighting w/ No Controls | Office | Lin. Fluor. Lighting | New | building | 14,191 | 6.9% | 0.07 | 8 | \$628 | 0% | 0.5 |
| FE-WPP | Central Lighting Control System | Lighting w/ No Controls | Office | Lin. Fluor. Lighting | Existing | building | 14,191 | 38% | 0.4 | 8 | \$628 | 12% | 2.9 |
| FE-WPP | Central Lighting Control System | Lighting w/ No Controls | Office | Lin. Fluor. Lighting | New | building | 14,191 | 14% | 0.1 | 8 | \$628 | 12% | 1.1 |
| FE-WPP | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Office | Lin. Fluor. Lighting | New | building | 14,191 | 10% | 0.1 | 15 | \$28,258 | 32% | 0.0 |
| FE-WPP | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Office | Lin. Fluor. Lighting | New | building | 14,191 | 15% | 0.2 | 15 | \$70,645 | 32% | 0.0 |
| FE-WPP | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Office | Lin. Fluor. Lighting | New | building | 14,191 | 30% | 0.3 | 15 | \$101,258 | 32% | 0.0 |
| FE-WPP | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Office | Lin. Fluor. Lighting | Early | Lamp | 172 | 38% | 0.01 | 12 | \$7.3 | 94% | 4.9 |
| FE-WPP | Indoor Daylight Sensors | Lighting w/ No Controls | Office | Lin. Fluor. Lighting | Existing | building | 14,191 | 28% | 0.3 | 8 | \$3,091 | 13% | 0.4 |
| FE-WPP | Indoor Daylight Sensors | Lighting w/ No Controls | Office | Lin. Fluor. Lighting | New | building | 14,191 | 4.1% | 0.04 | 8 | \$3,091 | 0% | 0.1 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Office | Lin. Fluor. Lighting | Early | Lamp | 61 | 19% | 0.00 | 15 | \$35 | 94% | 0.2 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 40W T12 Lamp, Magnetic Ballast | Office | Lin. Fluor. Lighting | Early | Lamp | 134 | 63% | 0.02 | 15 | \$35 | 94% | 1.7 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Office | Lin. Fluor. Lighting | Early | Lamp | 75 | 34% | 0.01 | 15 | \$35 | 94% | 0.5 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Office | Lin. Fluor. Lighting | Early | Lamp | 73 | 32% | 0.01 | 15 | \$35 | 94% | 0.5 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Office | Lin. Fluor. Lighting | New | Lamp | 47 | 19% | 0.00 | 15 | \$28 | 94% | 0.2 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Office | Lin. Fluor. Lighting | New | Lamp | 56 | 32% | 0.00 | 15 | \$29 | 94% | 0.4 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Office | Lin. Fluor. Lighting | New | Lamp | 57 | 34% | 0.00 | 15 | \$22 | 94% | 0.6 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Office | Lin. Fluor. Lighting | New | Lamp | 56 | 32% | 0.00 | 15 | \$29 | 94% | 0.4 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Office | Lin. Fluor. Lighting | ROB | Lamp | 61 | 19% | 0.00 | 15 | \$28 | 94% | 0.3 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Office | Lin. Fluor. Lighting | ROB | Lamp | 73 | 32% | 0.01 | 15 | \$29 | 94% | 0.6 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Office | Lin. Fluor. Lighting | ROB | Lamp | 75 | 34% | 0.01 | 15 | \$22 | 94% | 0.8 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Office | Lin. Fluor. Lighting | ROB | Lamp | 73 | 32% | 0.01 | 15 | \$29 | 94% | 0.6 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|--|---------|---------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Office | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 22.0 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Office | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 20.1 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Office | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 20.7 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Office | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 21.0 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Office | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 21.5 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Office | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 22.2 |
| FE-WPP | Escalator Motor Controller | Constant power control | Office | Motors | New | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 22% | 5.6 |
| FE-WPP | Escalator Motor Controller | Constant power control | Office | Motors | ROB | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 22% | 5.6 |
| FE-WPP | Fan Motor - correct sizing | Incorrect Fan Motor Sizing | Office | Motors | ROB | measure | 5,088 | 2.9% | 0.02 | 15 | \$50 | 92% | 1.7 |
| FE-WPP | Variable Speed Drive Control, 15HP | Existing Motors w/out VSD Drive | Office | Motors | Early | motor | 23,058 | 70% | 2.4 | 15 | \$731 | 86% | 13.6 |
| FE-WPP | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Office | Motors | New | motor | 22,562 | 72% | 2.4 | 15 | \$731 | 86% | 13.6 |
| FE-WPP | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Office | Motors | ROB | motor | 22,562 | 72% | 2.4 | 15 | \$731 | 86% | 13.6 |
| FE-WPP | Variable Speed Drive Control, 40HP | Existing Motors w/out VSD Drive | Office | Motors | Early | motor | 60,166 | 71% | 6.3 | 15 | \$4,666 | 86% | 5.6 |
| FE-WPP | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Office | Motors | New | motor | 59,463 | 71% | 6.3 | 15 | \$4,666 | 86% | 5.6 |
| FE-WPP | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Office | Motors | ROB | motor | 59,463 | 72% | 6.3 | 15 | \$4,666 | 86% | 5.6 |
| FE-WPP | Variable Speed Drive Control, 5HP | Existing Motors w/out VFD Drive | Office | Motors | Early | motor | 7,993 | 72% | 0.8 | 15 | \$2,243 | 86% | 1.6 |
| FE-WPP | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Office | Motors | New | motor | 7,815 | 72% | 0.8 | 15 | \$2,243 | 86% | 1.5 |
| FE-WPP | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Office | Motors | ROB | motor | 7,815 | 72% | 0.8 | 15 | \$2,243 | 86% | 1.5 |
| FE-WPP | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Office | Motors | Early | motor | 4,390 | 26% | 0.1 | 15 | \$268 | 13% | 2.5 |
| FE-WPP | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Office | Motors | New | motor | 4,390 | 26% | 0.1 | 15 | \$268 | 13% | 2.5 |
| FE-WPP | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Office | Motors | ROB | motor | 4,390 | 26% | 0.1 | 15 | \$268 | 13% | 2.5 |
| FE-WPP | VFD on Chilled Water Pump | Motor w/out VFD Drive | Office | Motors | Early | motor | 16,590 | 55% | 2.7 | 15 | \$2,903 | 86% | 2.3 |
| FE-WPP | VFD on Chilled Water Pump | Motor w/out VFD Drive | Office | Motors | New | motor | 16,280 | 55% | 2.7 | 15 | \$2,843 | 86% | 2.3 |
| FE-WPP | VFD on Chilled Water Pump | Motor w/out VFD Drive | Office | Motors | ROB | motor | 16,280 | 55% | 2.7 | 15 | \$2,843 | 86% | 2.3 |
| FE-WPP | VFD on Condenser Water Pump | Motor w/out VFD Drive | Office | Motors | Early | motor | 18,641 | 32% | 3.2 | 15 | \$2,903 | 86% | 1.9 |
| FE-WPP | VFD on Condenser Water Pump | Motor w/out VFD Drive | Office | Motors | New | motor | 18,292 | 33% | 3.1 | 15 | \$2,843 | 86% | 1.9 |
| FE-WPP | VFD on Condenser Water Pump | Motor w/out VFD Drive | Office | Motors | ROB | motor | 18,292 | 33% | 3.1 | 15 | \$2,843 | 86% | 1.9 |
| FE-WPP | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Office | Motors | Early | motor | 27,718 | 56% | 0.00 | 15 | \$2,903 | 86% | 2.5 |
| FE-WPP | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Office | Motors | New | motor | 27,199 | 57% | 0.00 | 15 | \$2,843 | 86% | 2.6 |
| FE-WPP | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Office | Motors | ROB | motor | 27,199 | 57% | 0.00 | 15 | \$2,843 | 86% | 2.6 |
| FE-WPP | VFD on HVAC Fan | Motor w/out VFD | Office | Motors | Early | motor | 18,724 | 70% | 3.4 | 15 | \$2,903 | 86% | 3.2 |
| FE-WPP | VFD on HVAC Fan | Motor w/out VFD | Office | Motors | New | motor | 18,373 | 72% | 3.3 | 15 | \$2,843 | 86% | 3.3 |
| FE-WPP | VFD on HVAC Fan | Motor w/out VFD | Office | Motors | ROB | motor | 18,373 | 72% | 3.3 | 15 | \$2,843 | 86% | 3.3 |
| FE-WPP | Elevators | Std. Eff Elevator | Office | Other | ROB | measure | 89,016 | 2.8% | 0.4 | 15 | \$1,228 | 63% | 1.3 |
| FE-WPP | Variable Speed Drives on Process Equipment | Constant speed control | Office | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 10.1 |
| FE-WPP | Variable Speed Drives on Process Equipment | Constant speed control | Office | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 10.1 |
| FE-WPP | Auto Off Time Switch | Lighting w/ No Controls | Office | Other Int. Lighting | Existing | building | 2,250 | 24% | 0.2 | 8 | \$628 | 13% | 0.5 |
| FE-WPP | Auto Off Time Switch | Lighting w/ No Controls | Office | Other Int. Lighting | New | building | 2,250 | 7.0% | 0.07 | 8 | \$628 | 0% | 0.1 |
| FE-WPP | Central Lighting Control System | Lighting w/ No Controls | Office | Other Int. Lighting | Existing | building | 2,250 | 38% | 0.4 | 8 | \$628 | 13% | 0.7 |
| FE-WPP | Central Lighting Control System | Lighting w/ No Controls | Office | Other Int. Lighting | New | building | 2,250 | 14% | 0.1 | 8 | \$628 | 13% | 0.3 |
| FE-WPP | Cold Cathode Screw-In Bulb | 40W Incandescent Bulb | Office | Other Int. Lighting | Early | lamp | 141 | 87% | 0.03 | 11 | \$30 | 14% | 2.3 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Office | Other Int. Lighting | Early | lamp | 101 | 81% | 0.02 | 11 | \$30 | 11% | 1.5 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Office | Other Int. Lighting | New | lamp | 77 | 81% | 0.02 | 11 | \$21 | 14% | 1.6 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Office | Other Int. Lighting | New | lamp | 77 | 81% | 0.02 | 11 | \$23 | 14% | 1.5 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Office | Other Int. Lighting | New | lamp | 77 | 81% | 0.02 | 11 | \$22 | 11% | 1.6 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Office | Other Int. Lighting | ROB | lamp | 101 | 81% | 0.02 | 11 | \$21 | 14% | 2.1 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Office | Other Int. Lighting | ROB | lamp | 101 | 81% | 0.02 | 11 | \$23 | 14% | 2.0 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Office | Other Int. Lighting | ROB | lamp | 101 | 81% | 0.02 | 11 | \$22 | 11% | 2.1 |
| FE-WPP | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Office | Other Int. Lighting | Early | lamp | 141 | 75% | 0.03 | 4 | \$73 | 24% | 0.4 |
| FE-WPP | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Office | Other Int. Lighting | New | fixture | 154 | 65% | 0.02 | 13 | \$29 | 28% | 2.2 |
| FE-WPP | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Office | Other Int. Lighting | New | lamp | 77 | 65% | 0.01 | 4 | \$29 | 28% | 0.4 |
| FE-WPP | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Office | Other Int. Lighting | ROB | fixture | 203 | 65% | 0.03 | 13 | \$29 | 24% | 2.9 |
| FE-WPP | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Office | Other Int. Lighting | ROB | lamp | 101 | 65% | 0.02 | 4 | \$29 | 24% | 0.6 |
| FE-WPP | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Office | Other Int. Lighting | Early | lamp | 141 | 75% | 0.03 | 4 | \$3.2 | 24% | 8.1 |
| FE-WPP | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Office | Other Int. Lighting | New | lamp | 77 | 65% | 0.01 | 4 | \$1.8 | 24% | 6.9 |
| FE-WPP | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Office | Other Int. Lighting | ROB | lamp | 101 | 65% | 0.02 | 4 | \$1.8 | 24% | 9.0 |
| FE-WPP | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Office | Other Int. Lighting | ROB | lamp | 101 | 65% | 0.02 | 4 | \$1.8 | 24% | 9.0 |
| FE-WPP | Exit Sign Retrofit: CFL replacing Incandescent | One 23W Single Sided Incandescent Exit Sign | Office | Other Int. Lighting | Early | exit sign | 140 | 42% | 0.01 | 15 | \$48 | 22% | 0.7 |
| FE-WPP | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Office | Other Int. Lighting | New | building | 2,250 | 10% | 0.1 | 15 | \$28,258 | 32% | 0.0 |
| FE-WPP | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Office | Other Int. Lighting | New | building | 2,250 | 15% | 0.2 | 15 | \$70,645 | 32% | 0.0 |
| FE-WPP | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Office | Other Int. Lighting | New | building | 2,250 | 30% | 0.3 | 15 | \$101,258 | 32% | 0.0 |
| FE-WPP | Indoor Daylight Sensors | Lighting w/ No Controls | Office | Other Int. Lighting | Existing | building | 2,250 | 28% | 0.3 | 8 | \$3,091 | 13% | 0.1 |
| FE-WPP | Indoor Daylight Sensors | Lighting w/ No Controls | Office | Other Int. Lighting | New | building | 2,250 | 4.1% | 0.04 | 8 | \$3,091 | 0% | 0.0 |
| FE-WPP | LED Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Office | Other Int. Lighting | Early | sign | 153 | 87% | 0.02 | 15 | \$48 | 16% | 1.7 |
| FE-WPP | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Office | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 1.8 |
| FE-WPP | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Office | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 1.8 |
| FE-WPP | LED Task Lighting/Screw-In | 1 15W CFL bulb | Office | Other Int. Lighting | Early | lamp | 22 | 33% | 0.00 | 15 | \$9.6 | 24% | 0.5 |
| FE-WPP | LED Task Lighting/Screw-In | 1 60W Incandescent Bulb | Office | Other Int. Lighting | Early | lamp | 88 | 83% | 0.02 | 15 | \$9.6 | 24% | 5.1 |
| FE-WPP | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Office | Other Int. Lighting | New | lamp | 48 | 77% | 0.01 | 15 | \$7.9 | 24% | 3.1 |
| FE-WPP | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Office | Other Int. Lighting | New | lamp | 48 | 77% | 0.01 | 15 | \$7.9 | 24% | 3.1 |
| FE-WPP | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Office | Other Int. Lighting | ROB | lamp | 63 | 77% | 0.01 | 15 | \$7.9 | 24% | 4.1 |
| FE-WPP | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Office | Other Int. Lighting | ROB | lamp | 63 | 77% | 0.01 | 15 | \$7.9 | 24% | 4.1 |
| FE-WPP | Occupancy Sensor | Lighting w/ No Controls | Office | Other Int. Lighting | Existing | building | 2,250 | 24% | 0.2 | 8 | \$946 | 12% | 0.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|---|---------|---------------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Occupancy Sensor | Lighting w/ No Controls | Office | Other Int. Lighting | New | building | 2,250 | 7.0% | 0.07 | 8 | \$946 | 0% | 0.1 |
| FE-WPP | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Office | Other Int. Lighting | Existing | building | 2,250 | 28% | 0.3 | 8 | \$3,091 | 12% | 0.1 |
| FE-WPP | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Office | Other Int. Lighting | New | building | 2,250 | 4.1% | 0.04 | 8 | \$3,091 | 0% | 0.0 |
| FE-WPP | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Office | Other Int. Lighting | Early | exit sign | 140 | 100% | 0.02 | 15 | \$173 | 26% | 0.5 |
| FE-WPP | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Office | Other Int. Lighting | New | exit sign | 81 | 100% | 0.01 | 15 | \$148 | 31% | 0.3 |
| FE-WPP | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Office | Other Int. Lighting | ROB | exit sign | 81 | 100% | 0.01 | 15 | \$148 | 26% | 0.3 |
| FE-WPP | Time Clock Control | Lighting w/ No Controls | Office | Other Int. Lighting | Existing | building | 2,250 | 28% | 0.3 | 8 | \$628 | 13% | 0.5 |
| FE-WPP | Time Clock Control | Lighting w/ No Controls | Office | Other Int. Lighting | New | building | 2,250 | 4.1% | 0.04 | 8 | \$628 | 0% | 0.1 |
| FE-WPP | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Office | Plug Load | Existing | building | 5,182 | 46% | 0.5 | 5 | \$189 | 4% | 3.4 |
| FE-WPP | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Office | Plug Load | New | building | 5,182 | 46% | 0.5 | 5 | \$189 | 4% | 3.4 |
| FE-WPP | Data Center - Server/Storage Consolidation | No Consolidation | Office | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 36% | 0.0 |
| FE-WPP | Data Center - Server/Storage Consolidation | No Consolidation | Office | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 36% | 0.0 |
| FE-WPP | Data Center - Server/Storage Virtualization | No Virtualization | Office | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 36% | 0.0 |
| FE-WPP | Data Center - Server/Storage Virtualization | No Virtualization | Office | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 36% | 0.0 |
| FE-WPP | Energy Star - Scanners | Std Scanner | Office | Plug Load | New | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 88% | 0.1 |
| FE-WPP | Energy Star - Scanners | Std Scanner | Office | Plug Load | ROB | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 88% | 0.1 |
| FE-WPP | Energy Star Battery Charging System (for small cordless products) | Std. Battery Charging System | Office | Plug Load | ROB | measure | 593 | 2.3% | 1.3 | 5 | \$65 | 4% | 7.4 |
| FE-WPP | Energy Star Dishwasher | Existing Dishwasher units | Office | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,580 | 1% | 1.0 |
| FE-WPP | Energy Star Dishwasher | Standard Dishwasher unit | Office | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 1% | 3.1 |
| FE-WPP | Energy Star Dishwasher | Standard Dishwasher unit | Office | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 1% | 3.1 |
| FE-WPP | Energy Star External Power Adapter | Std. Power Adapter | Office | Plug Load | New | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| FE-WPP | Energy Star External Power Adapter | Std. Power Adapter | Office | Plug Load | ROB | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| FE-WPP | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Office | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 17% | 0.2 |
| FE-WPP | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Office | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 1.9 |
| FE-WPP | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Office | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 1.9 |
| FE-WPP | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Office | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 9% | 0.8 |
| FE-WPP | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Office | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.6 |
| FE-WPP | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Office | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.6 |
| FE-WPP | ENERGY STAR® Copiers | 10% Less Efficient Copier | Office | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 80% | 0.0 |
| FE-WPP | ENERGY STAR® Copiers | One Conventional Copier | Office | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 80% | 0.0 |
| FE-WPP | ENERGY STAR® Copiers | One Conventional Copier | Office | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 80% | 0.0 |
| FE-WPP | ENERGY STAR® desktop | Standard computer | Office | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 87% | 0.1 |
| FE-WPP | ENERGY STAR® desktop | Standard computer | Office | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 87% | 2.3 |
| FE-WPP | ENERGY STAR® desktop | Standard computer | Office | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 87% | 2.3 |
| FE-WPP | ENERGY STAR® Fax | 10% Less Efficient Fax | Office | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 89% | 0.0 |
| FE-WPP | ENERGY STAR® Fax | One Conventional Fax | Office | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 89% | 0.2 |
| FE-WPP | ENERGY STAR® Fax | One Conventional Fax | Office | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 89% | 0.2 |
| FE-WPP | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Office | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 89% | 0.0 |
| FE-WPP | ENERGY STAR® Monitors | One Conventional Monitor | Office | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 89% | 0.0 |
| FE-WPP | ENERGY STAR® Monitors | One Conventional Monitor | Office | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 89% | 0.0 |
| FE-WPP | ENERGY STAR® Printers | 10% Less Efficient Printer | Office | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 89% | 0.0 |
| FE-WPP | ENERGY STAR® Printers | One Conventional Printer | Office | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 89% | 0.3 |
| FE-WPP | ENERGY STAR® Printers | One Conventional Printer | Office | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$130 | 89% | 0.3 |
| FE-WPP | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Office | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 87% | 0.1 |
| FE-WPP | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Office | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 87% | 0.7 |
| FE-WPP | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Office | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 87% | 0.7 |
| FE-WPP | ENERGY STAR® Televisions | 10% Less Efficient Television | Office | Plug Load | Early | Unit | 179 | 38% | 0.01 | 6 | \$672 | 85% | 0.0 |
| FE-WPP | ENERGY STAR® Televisions | One Conventional Television | Office | Plug Load | New | Unit | 163 | 32% | 0.01 | 6 | \$206 | 85% | 0.1 |
| FE-WPP | ENERGY STAR® Televisions | One Conventional Television | Office | Plug Load | ROB | Unit | 163 | 32% | 0.01 | 6 | \$206 | 85% | 0.1 |
| FE-WPP | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Office | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 81% | 0.3 |
| FE-WPP | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Office | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 81% | 0.6 |
| FE-WPP | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Office | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 81% | 0.6 |
| FE-WPP | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Office | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 51% | 0.2 |
| FE-WPP | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Office | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 51% | 0.2 |
| FE-WPP | Network PC Power Management | No PC Power Management | Office | Plug Load | Existing | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 17.8 |
| FE-WPP | Network PC Power Management | No PC Power Management | Office | Plug Load | New | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 17.8 |
| FE-WPP | Smart Strip Plug Outlets | Standard plug strip/outlet | Office | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.3 |
| FE-WPP | Smart Strip Plug Outlets | Standard plug strip/outlet | Office | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.3 |
| FE-WPP | Smart Strip Plug Outlets | Standard plug strip/outlet | Office | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-WPP | Smart Strip Plug Outlets | Standard plug strip/outlet | Office | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-WPP | Smart Strip Plug Outlets | Standard plug strip/outlet | Office | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-WPP | Smart Strip Plug Outlets | Standard plug strip/outlet | Office | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-WPP | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Office | Plug Load | Existing | building | 5,182 | 46% | 0.5 | 5 | \$180 | 3% | 3.6 |
| FE-WPP | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Office | Plug Load | New | building | 5,182 | 46% | 0.5 | 5 | \$180 | 3% | 3.6 |
| FE-WPP | Auto Closer on Refrigerator Door | Door w/out Autocloser | Office | Refrigeration | Existing | building | 1,271 | 55% | 0.5 | 8 | \$747 | 40% | 0.7 |
| FE-WPP | Auto Closer on Refrigerator Door | Door w/out Autocloser | Office | Refrigeration | Existing | building | 3,662 | 19% | 0.2 | 8 | \$476 | 40% | 0.7 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|--|---------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Auto Closer on Refrigerator Door | Door w/out Autocloser | Office | Refrigeration | New | building | 1,271 | 55% | 0.5 | 8 | \$747 | 40% | 0.7 |
| FE-WPP | Auto Closer on Refrigerator Door | Door w/out Autocloser | Office | Refrigeration | New | building | 3,662 | 19% | 0.2 | 8 | \$476 | 40% | 0.7 |
| FE-WPP | Door Gasket- Freezer | Door w/out Gasket | Office | Refrigeration | Existing | building | 1,271 | 30% | 0.3 | 4 | \$77 | 29% | 2.0 |
| FE-WPP | Door Gasket- Freezer | Door w/out Gasket | Office | Refrigeration | New | building | 1,271 | 31% | 0.3 | 4 | \$77 | 29% | 2.0 |
| FE-WPP | Door Gasket- Refrigerator | Door w/out Gasket | Office | Refrigeration | Existing | building | 3,662 | 6.1% | 0.06 | 4 | \$66 | 45% | 0.8 |
| FE-WPP | Door Gasket- Refrigerator | Door w/out Gasket | Office | Refrigeration | New | building | 3,662 | 6.1% | 0.06 | 4 | \$66 | 45% | 0.8 |
| FE-WPP | eCube | Refrigeration unit w/out eCube | Office | Refrigeration | Existing | building | 3,662 | 15% | 0.2 | 15 | \$38 | 57% | 10.2 |
| FE-WPP | eCube | Refrigeration unit w/out eCube | Office | Refrigeration | New | building | 3,662 | 15% | 0.2 | 15 | \$38 | 57% | 10.2 |
| FE-WPP | Efficient compressor motor | Base Refrigeration System - Grocery | Office | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| FE-WPP | Efficient compressor motor | Base Refrigeration System - Grocery | Office | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| FE-WPP | Efficient compressor motor | Base Refrigeration System - Grocery | Office | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| FE-WPP | Efficient compressor motor | Base Refrigeration System - Grocery | Office | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| FE-WPP | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Office | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.5 |
| FE-WPP | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Office | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| FE-WPP | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Office | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| FE-WPP | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Office | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.3 |
| FE-WPP | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Office | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.7 |
| FE-WPP | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Office | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.7 |
| FE-WPP | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Office | Refrigeration | Existing | building | 3,662 | 3.5% | 0.04 | 10 | \$369 | 77% | 0.2 |
| FE-WPP | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Office | Refrigeration | New | building | 3,662 | 3.5% | 0.04 | 10 | \$369 | 77% | 0.2 |
| FE-WPP | Floating head pressure controller | System w/out FHPC | Office | Refrigeration | Existing | building | 1,271 | 18% | 0.05 | 15 | \$8,682 | 41% | 0.0 |
| FE-WPP | Floating head pressure controller | System w/out FHPC | Office | Refrigeration | Existing | building | 3,662 | 2.2% | 0.02 | 15 | \$8,682 | 41% | 0.0 |
| FE-WPP | Floating head pressure controller | System w/out FHPC | Office | Refrigeration | New | building | 1,271 | 18% | 0.05 | 15 | \$8,682 | 41% | 0.0 |
| FE-WPP | Floating head pressure controller | System w/out FHPC | Office | Refrigeration | New | building | 3,662 | 2.2% | 0.02 | 15 | \$8,682 | 41% | 0.0 |
| FE-WPP | High Efficiency Commercial Freezer | Std. Commercial Freezer | Office | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 86% | 0.3 |
| FE-WPP | High Efficiency Commercial Freezer | Std. Commercial Freezer | Office | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 3.6 |
| FE-WPP | High Efficiency Commercial Freezer | Std. Commercial Freezer | Office | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 3.6 |
| FE-WPP | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Office | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 2% | 0.1 |
| FE-WPP | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Office | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.8 |
| FE-WPP | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Office | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.8 |
| FE-WPP | High Efficiency Ice Maker | Existing Standard Efficiency Ice Maker in Pennsylvania | Office | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 73% | 0.1 |
| FE-WPP | High Efficiency Ice Maker | Standard code minimum Ice Maker | Office | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| FE-WPP | High Efficiency Ice Maker | Standard code minimum Ice Maker | Office | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| FE-WPP | High Efficiency Ice Making Head | Standard Ice Making Head | Office | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.5 |
| FE-WPP | High Efficiency Ice Making Head | Standard Ice Making Head | Office | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.6 |
| FE-WPP | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Office | Refrigeration | Early | Fixture | 373 | 56% | 0.02 | 8 | \$448 | 47% | 0.2 |
| FE-WPP | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Office | Refrigeration | New | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 47% | 0.3 |
| FE-WPP | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Office | Refrigeration | ROB | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 47% | 0.3 |
| FE-WPP | Quick acting freezer doors | Std. Freezer Doors | Office | Refrigeration | Existing | building | 1,271 | 13% | 0.1 | 10 | \$404 | 56% | 0.3 |
| FE-WPP | Quick acting freezer doors | Std. Freezer Doors | Office | Refrigeration | New | building | 1,271 | 13% | 0.1 | 10 | \$404 | 56% | 0.3 |
| FE-WPP | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Office | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 30% | 0.4 |
| FE-WPP | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Office | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.4 |
| FE-WPP | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Office | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.5 |
| FE-WPP | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 30% | 1.5 |
| FE-WPP | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 2.6 |
| FE-WPP | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 2.6 |
| FE-WPP | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 30% | 1.5 |
| FE-WPP | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 3.5 |
| FE-WPP | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 3.5 |
| FE-WPP | Refrigeration Commissioning | Non-commissioned refrigeration system | Office | Refrigeration | Existing | building | 5,086 | 9.5% | 0.10 | 3 | \$1,086 | 85% | 0.1 |
| FE-WPP | Refrigeration Commissioning | Non-commissioned refrigeration system | Office | Refrigeration | New | building | 5,086 | 9.5% | 0.10 | 3 | \$1,086 | 85% | 0.1 |
| FE-WPP | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Office | Refrigeration | Existing | building | 1,271 | 70% | 0.7 | 4 | \$93 | 22% | 3.8 |
| FE-WPP | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Office | Refrigeration | Existing | building | 3,662 | 8.5% | 0.09 | 4 | \$80 | 22% | 1.0 |
| FE-WPP | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Office | Refrigeration | New | building | 1,271 | 70% | 0.7 | 4 | \$93 | 22% | 3.8 |
| FE-WPP | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Office | Refrigeration | New | building | 3,662 | 8.5% | 0.09 | 4 | \$80 | 22% | 1.0 |
| FE-WPP | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Office | Refrigeration | Existing | building | 1,271 | 12% | 0.1 | 11 | \$117 | 79% | 1.2 |
| FE-WPP | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Office | Refrigeration | New | building | 1,271 | 12% | 0.1 | 11 | \$117 | 79% | 1.2 |
| FE-WPP | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Office | Refrigeration | Existing | building | 3,662 | 8.9% | 0.09 | 11 | \$117 | 79% | 1.5 |
| FE-WPP | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Office | Refrigeration | New | building | 3,662 | 8.9% | 0.09 | 11 | \$117 | 79% | 1.5 |
| FE-WPP | VSD Controlled Compressor | Compressor w/out VSD | Office | Refrigeration | Early | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |
| FE-WPP | VSD Controlled Compressor | Compressor w/out VSD | Office | Refrigeration | New | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |
| FE-WPP | VSD Controlled Compressor | Compressor w/out VSD | Office | Refrigeration | ROB | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |
| FE-WPP | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Office | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$269 | 35% | 0.8 |
| FE-WPP | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Office | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$269 | 35% | 0.8 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|--|---------|-----------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Office | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 2.8 |
| FE-WPP | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Office | Refrigeration | New | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 2.7 |
| FE-WPP | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Office | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 2.8 |
| FE-WPP | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Office | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 2.7 |
| FE-WPP | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 35% | 2.1 |
| FE-WPP | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 35% | 2.0 |
| FE-WPP | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 4.6 |
| FE-WPP | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.3 |
| FE-WPP | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 4.6 |
| FE-WPP | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.3 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Office | Space Heating | Existing | building | 12,510 | 7.1% | 0.07 | 6 | \$11,826 | 82% | 0.0 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Office | Space Heating | New | building | 12,510 | 7.1% | 0.07 | 6 | \$11,826 | 82% | 0.0 |
| FE-WPP | Adding window shade film | No shade film | Office | Space Heating | Existing | building | 12,510 | 1.3% | 0.4 | 10 | \$152 | 13% | 1.9 |
| FE-WPP | Adding window shade film | No shade film | Office | Space Heating | New | building | 12,510 | 1.3% | 0.4 | 10 | \$152 | 13% | 1.9 |
| FE-WPP | Adding window shade screen | No shade screen | Office | Space Heating | Existing | building | 12,510 | 1.1% | 0.01 | 10 | \$59 | 13% | 0.9 |
| FE-WPP | Adding window shade screen | No shade screen | Office | Space Heating | New | building | 12,510 | 1.1% | 0.01 | 10 | \$59 | 13% | 0.9 |
| FE-WPP | Automated control system | Manual Controls | Office | Space Heating | Existing | building | 12,510 | 17% | 0.2 | 15 | \$13,696 | 51% | 0.1 |
| FE-WPP | Automated control system | Manual Controls | Office | Space Heating | New | building | 12,510 | 17% | 0.2 | 15 | \$13,696 | 94% | 0.1 |
| FE-WPP | Ceiling Insulations (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Office | Space Heating | Existing | building | 12,510 | 4.9% | 0.05 | 15 | \$16,437 | 71% | 0.0 |
| FE-WPP | Ceiling Insulations (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Office | Space Heating | New | building | 12,510 | 2.3% | 0.02 | 15 | \$15,624 | 94% | 0.0 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Office | Space Heating | Existing | building | 12,510 | 1.4% | 0.04 | 15 | \$99 | 20% | 1.2 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Office | Space Heating | New | building | 12,510 | 1.4% | 0.04 | 15 | \$99 | 10% | 1.2 |
| FE-WPP | Efficient Unit Heating System | Existing Unit Heaters in PA | Office | Space Heating | Early | heater | 10,898 | 23% | 0.02 | 15 | \$3,289 | 83% | 0.4 |
| FE-WPP | Efficient Unit Heating System | Std. Unit Heater | Office | Space Heating | New | heater | 9,672 | 13% | 0.01 | 15 | \$1,991 | 83% | 0.3 |
| FE-WPP | Efficient Unit Heating System | Std. Unit Heater | Office | Space Heating | ROB | heater | 9,672 | 13% | 0.01 | 15 | \$1,991 | 83% | 0.3 |
| FE-WPP | Facility Commissioning | No Facility Commissioning | Office | Space Heating | New | building | 12,510 | 16% | 0.2 | 10 | \$45,446 | 89% | 0.0 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Office | Space Heating | Existing | building | 12,510 | 7.1% | 0.07 | 15 | \$55,494 | 25% | 0.0 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Office | Space Heating | New | building | 12,510 | 7.1% | 0.07 | 15 | \$55,494 | 35% | 0.0 |
| FE-WPP | Hi Eff HVAC System Design | No HVAC Design | Office | Space Heating | New | building | 12,510 | 0.8% | 0.01 | 10 | \$1,030 | 51% | 0.0 |
| FE-WPP | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Office | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 0.9 |
| FE-WPP | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Office | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 0.9 |
| FE-WPP | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Office | Space Heating | Existing | building | 12,510 | 2.8% | 0.03 | 10 | \$7,735 | 81% | 0.0 |
| FE-WPP | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Office | Space Heating | New | building | 12,510 | 2.8% | 0.03 | 10 | \$7,735 | 81% | 0.0 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Office | Space Heating | Existing | building | 12,510 | 3.6% | 0.04 | 11 | \$286 | 49% | 0.6 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Office | Space Heating | New | building | 12,510 | 3.1% | 0.03 | 11 | \$146 | 49% | 1.1 |
| FE-WPP | Re-Commissioning (Existing Construction) | No Re-Commissioning | Office | Space Heating | Existing | building | 12,510 | 16% | 0.2 | 5 | \$7,777 | 86% | 0.1 |
| FE-WPP | VFD on Cooling Tower Fan | Motor w/out VFD | Office | Space Heating | Early | motor | 18,724 | 70% | 3.4 | 15 | \$2,843 | 88% | 3.2 |
| FE-WPP | VFD on Cooling Tower Fan | Motor w/out VFD | Office | Space Heating | New | motor | 18,373 | 72% | 3.3 | 15 | \$2,843 | 88% | 3.1 |
| FE-WPP | VFD on Cooling Tower Fan | Motor w/out VFD | Office | Space Heating | ROB | motor | 18,373 | 72% | 3.3 | 15 | \$2,843 | 88% | 3.1 |
| FE-WPP | Wall Insulations (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Office | Space Heating | Existing | building | 12,510 | 15% | 0.2 | 15 | \$5,028 | 26% | 0.2 |
| FE-WPP | Wall Insulations (Going upto R 21) | Code minimum Wall Insulations | Office | Space Heating | New | building | 12,510 | 0.5% | 0.01 | 15 | \$3,857 | 94% | 0.0 |
| FE-WPP | Green LED Traffic Light | Green Incandescent Traffic Light | Office | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 0% | 1.1 |
| FE-WPP | Green LED Traffic Light | Green Incandescent Traffic Light | Office | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| FE-WPP | Green LED Traffic Light | Green Incandescent Traffic Light | Office | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| FE-WPP | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Office | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 0% | 2.8 |
| FE-WPP | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Office | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-WPP | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Office | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-WPP | Induction Street Lighting | One 100W HPS Street Light Fixture | Office | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 0% | 0.3 |
| FE-WPP | Induction Street Lighting | One 100W HPS Street Light Fixture | Office | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.6 |
| FE-WPP | Induction Street Lighting | One 100W HPS Street Light Fixture | Office | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.6 |
| FE-WPP | LED Street Lighting | One 100W HPS Street Light | Office | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 0% | 0.2 |
| FE-WPP | LED Street Lighting | One 100W HPS Street Light | Office | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-WPP | LED Street Lighting | One 100W HPS Street Light | Office | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-WPP | Red LED Traffic Light | One Red Incandescent Traffic Light | Office | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 0% | 1.5 |
| FE-WPP | Red LED Traffic Light | One Red Incandescent Traffic Light | Office | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| FE-WPP | Red LED Traffic Light | One Red Incandescent Traffic Light | Office | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| FE-WPP | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Office | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 0% | 0.1 |
| FE-WPP | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Office | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-WPP | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Office | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-WPP | Demand controlled Circulating Systems | Constant circulation system | Office | Water Heating | Existing | building | 883 | 20% | 0.2 | 15 | \$160 | 59% | 1.6 |
| FE-WPP | Demand controlled Circulating Systems | Constant circulation system | Office | Water Heating | New | building | 883 | 20% | 0.2 | 15 | \$160 | 59% | 1.6 |
| FE-WPP | Drainwater Heat Recovery Water Heater | No heat recovery | Office | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.7 |
| FE-WPP | Drainwater Heat Recovery Water Heater | No heat recovery | Office | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.7 |
| FE-WPP | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Office | Water Heating | Existing | building | 883 | 5.9% | 0.06 | 12 | \$70 | 85% | 0.9 |
| FE-WPP | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Office | Water Heating | New | building | 883 | 5.9% | 0.06 | 12 | \$20 | 85% | 3.2 |
| FE-WPP | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Office | Water Heating | Early | water heater | 9,692 | 66% | 1.1 | 10 | \$1,187 | 68% | 2.5 |
| FE-WPP | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Office | Water Heating | Early | water heater | 9,692 | 66% | 1.1 | 10 | \$1,187 | 68% | 2.5 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|--|--|--------------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Office | Water Heating | New | water heater | 9,692 | 66% | 1.1 | 10 | \$1,187 | 68% | 2.5 |
| FE-WPP | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Office | Water Heating | New | water heater | 9,692 | 66% | 1.1 | 10 | \$1,187 | 68% | 2.5 |
| FE-WPP | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Office | Water Heating | ROB | water heater | 9,423 | 65% | 1.1 | 10 | \$1,187 | 68% | 2.4 |
| FE-WPP | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Office | Water Heating | ROB | water heater | 9,423 | 65% | 1.1 | 10 | \$1,187 | 68% | 2.4 |
| FE-WPP | Heat Recovery Unit | Base Water Heating | Office | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.5 |
| FE-WPP | Heat Recovery Unit | Base Water Heating | Office | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.5 |
| FE-WPP | Heat Trap | No Heat Trap | Office | Water Heating | Existing | building | 883 | 22% | 0.2 | 11 | \$6.0 | 50% | 38.1 |
| FE-WPP | Heat Trap | No Heat Trap | Office | Water Heating | New | building | 883 | 22% | 0.2 | 11 | \$0.9 | 50% | 256.0 |
| FE-WPP | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Office | Water Heating | Early | water heater | 9,692 | 5.9% | 0.1 | 15 | \$307 | 79% | 1.2 |
| FE-WPP | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Office | Water Heating | Early | water heater | 9,692 | 5.9% | 0.1 | 15 | \$307 | 79% | 1.2 |
| FE-WPP | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Office | Water Heating | New | water heater | 9,423 | 3.2% | 0.05 | 15 | \$307 | 79% | 0.6 |
| FE-WPP | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Office | Water Heating | New | water heater | 9,423 | 3.2% | 0.05 | 15 | \$307 | 79% | 0.6 |
| FE-WPP | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Office | Water Heating | ROB | water heater | 9,423 | 3.2% | 0.05 | 15 | \$307 | 79% | 0.6 |
| FE-WPP | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Office | Water Heating | ROB | water heater | 9,423 | 3.2% | 0.05 | 15 | \$307 | 79% | 0.6 |
| FE-WPP | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Office | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$466 | 81% | 36.2 |
| FE-WPP | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Office | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 18.9 |
| FE-WPP | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Office | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 18.9 |
| FE-WPP | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Office | Water Heating | Existing | building | 883 | 3.9% | 0.04 | 13 | \$5.1 | 68% | 8.9 |
| FE-WPP | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Office | Water Heating | New | building | 883 | 3.9% | 0.04 | 13 | \$5.1 | 0% | 8.9 |
| FE-WPP | Hot Water Circulation Pump Time-Clock | Constant circulation system | Office | Water Heating | Existing | building | 883 | 5.3% | 0.05 | 10 | \$3.6 | 72% | 14.3 |
| FE-WPP | Hot Water Circulation Pump Time-Clock | Constant circulation system | Office | Water Heating | New | building | 883 | 5.3% | 0.05 | 10 | \$3.6 | 72% | 14.3 |
| FE-WPP | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Office | Water Heating | Existing | building | 883 | 1.1% | 0.01 | 7 | \$22 | 78% | 0.4 |
| FE-WPP | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Office | Water Heating | New | building | 883 | 0.9% | 0.01 | 7 | \$0.5 | 78% | 13.3 |
| FE-WPP | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Office | Water Heating | Existing | building | 883 | 13% | 0.1 | 5 | \$300 | 0% | 0.2 |
| FE-WPP | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Office | Water Heating | New | building | 883 | 13% | 0.1 | 5 | \$194 | 0% | 0.4 |
| FE-WPP | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Office | Water Heating | Existing | building | 883 | 6.5% | 0.07 | 9 | \$25 | 2% | 2.3 |
| FE-WPP | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Office | Water Heating | New | building | 883 | 6.5% | 0.07 | 9 | \$6.0 | 2% | 9.7 |
| FE-WPP | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Office | Water Heating | Early | water heater | 9,692 | 52% | 0.4 | 15 | \$6,222 | 32% | 0.5 |
| FE-WPP | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Office | Water Heating | New | water heater | 9,423 | 51% | 0.4 | 15 | \$6,222 | 32% | 0.4 |
| FE-WPP | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Office | Water Heating | ROB | water heater | 9,423 | 51% | 0.4 | 15 | \$6,222 | 32% | 0.4 |
| FE-WPP | Ultrasonic Faucet Control | Manual Faucet Control | Office | Water Heating | Existing | building | 883 | 3.0% | 0.03 | 10 | \$153 | 77% | 0.2 |
| FE-WPP | Ultrasonic Faucet Control | Manual Faucet Control | Office | Water Heating | New | building | 883 | 3.1% | 0.03 | 10 | \$153 | 77% | 0.2 |
| FE-WPP | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Office | Water Heating | Existing | building | 883 | 2.2% | 0.02 | 4 | \$28 | 83% | 0.4 |
| FE-WPP | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Office | Water Heating | New | building | 883 | 2.3% | 0.02 | 4 | \$28 | 83% | 0.4 |
| FE-WPP | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Other Inst'l | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.0 |
| FE-WPP | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Other Inst'l | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.0 |
| FE-WPP | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Other Inst'l | Cooking | Early | steamer | 51 | 46% | 0.00 | 12 | \$5,053 | 81% | 0.0 |
| FE-WPP | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Other Inst'l | Cooking | New | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-WPP | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Other Inst'l | Cooking | ROB | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-WPP | Electric combination oven (Energy Star) | Standard Oven | Other Inst'l | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.8 |
| FE-WPP | Electric combination oven (Energy Star) | Standard Oven | Other Inst'l | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.8 |
| FE-WPP | Electric Convection Oven | Conventional convection oven w/ 65% efficiency | Other Inst'l | Cooking | Early | oven | 8,641 | 37% | 0.6 | 12 | \$4,119 | 81% | 0.4 |
| FE-WPP | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Other Inst'l | Cooking | New | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.7 |
| FE-WPP | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Other Inst'l | Cooking | ROB | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.7 |
| FE-WPP | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Other Inst'l | Cooking | Early | fryer | 6,105 | 23% | 0.3 | 12 | \$9,241 | 86% | 0.1 |
| FE-WPP | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Other Inst'l | Cooking | New | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| FE-WPP | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Other Inst'l | Cooking | ROB | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| FE-WPP | High Efficiency Griddle (ENERGY STAR) | Efficiency code minimum griddle (70% eff) | Other Inst'l | Cooking | Early | griddle | 11,317 | 65% | 1.4 | 12 | \$4,977 | 86% | 0.8 |
| FE-WPP | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Other Inst'l | Cooking | New | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.1 |
| FE-WPP | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Other Inst'l | Cooking | ROB | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.1 |
| FE-WPP | High Efficiency Induction Cooking | Standard Cooking | Other Inst'l | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-WPP | High Efficiency Induction Cooking | Standard Cooking | Other Inst'l | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Other Inst'l | Cooling Central | Existing | building | 1,702 | 7.0% | 0.07 | 6 | \$12,489 | 82% | 0.0 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Other Inst'l | Cooling Central | New | building | 1,702 | 7.0% | 0.07 | 6 | \$12,489 | 82% | 0.0 |
| FE-WPP | Adding window shade film | No shade film | Other Inst'l | Cooling Central | Existing | building | 1,702 | 1.3% | 0.4 | 10 | \$21 | 12% | 12.1 |
| FE-WPP | Adding window shade film | No shade film | Other Inst'l | Cooling Central | New | building | 1,702 | 1.3% | 0.4 | 10 | \$21 | 13% | 12.1 |
| FE-WPP | Adding window shade screen | No shade screen | Other Inst'l | Cooling Central | Existing | building | 1,702 | 1.1% | 0.01 | 10 | \$8.0 | 13% | 1.6 |
| FE-WPP | Adding window shade screen | No shade screen | Other Inst'l | Cooling Central | New | building | 1,702 | 1.1% | 0.01 | 10 | \$8.0 | 13% | 1.6 |
| FE-WPP | Automated control system | Manual Controls | Other Inst'l | Cooling Central | Existing | building | 1,702 | 17% | 0.2 | 15 | \$1,863 | 51% | 0.2 |
| FE-WPP | Automated control system | Manual Controls | Other Inst'l | Cooling Central | New | building | 1,702 | 17% | 0.2 | 15 | \$1,863 | 94% | 0.2 |
| FE-WPP | Ceiling Insulations (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Other Inst'l | Cooling Central | Existing | building | 1,702 | 7.2% | 0.07 | 15 | \$17,130 | 71% | 0.0 |
| FE-WPP | Ceiling Insulations (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Other Inst'l | Cooling Central | New | building | 1,702 | 2.4% | 0.02 | 15 | \$16,283 | 94% | 0.0 |
| FE-WPP | Chiller Tuneup/Diagnostics | No tuneup | Other Inst'l | Cooling Central | Existing | building | 1,702 | 8.0% | 0.08 | 10 | \$4,345 | 59% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|--|--|--------------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Chiller Tuneup/Diagnostics | No tuneup | Other Inst'l | Cooling Central | New | building | 1,702 | 8.0% | 0.08 | 10 | \$4,345 | 59% | 0.0 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Other Inst'l | Cooling Central | Existing | building | 1,702 | 1.4% | 0.04 | 15 | \$14 | 20% | 3.4 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Other Inst'l | Cooling Central | New | building | 1,702 | 1.4% | 0.04 | 15 | \$14 | 10% | 3.4 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Other Inst'l | Cooling Central | Existing | building | 1,702 | 7.0% | 0.07 | 15 | \$7,548 | 25% | 0.0 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Other Inst'l | Cooling Central | New | building | 1,702 | 7.0% | 0.07 | 15 | \$7,548 | 35% | 0.0 |
| FE-WPP | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | Early | ton | 5,094 | 24% | 0.4 | 15 | \$108,550 | 88% | 0.0 |
| FE-WPP | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | New | ton | 4,164 | 6.7% | 0.10 | 15 | \$12,927 | 88% | 0.0 |
| FE-WPP | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | ROB | ton | 4,164 | 6.7% | 0.10 | 15 | \$12,927 | 88% | 0.0 |
| FE-WPP | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | Early | ton | 7,611 | 23% | 0.6 | 15 | \$140,105 | 88% | 0.0 |
| FE-WPP | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | New | ton | 6,124 | 4.8% | 0.1 | 15 | \$9,336 | 88% | 0.0 |
| FE-WPP | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | ROB | ton | 6,124 | 4.8% | 0.1 | 15 | \$9,336 | 88% | 0.0 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | Early | ton | 62,308 | 26% | 5.6 | 15 | \$105,354 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | New | ton | 54,288 | 15% | 2.8 | 15 | \$30,530 | 88% | 0.2 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | ROB | ton | 54,288 | 15% | 2.8 | 15 | \$30,530 | 88% | 0.2 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | Early | ton | 93,320 | 23% | 7.4 | 15 | \$154,107 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | New | ton | 85,726 | 16% | 4.8 | 15 | \$27,646 | 88% | 0.4 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | ROB | ton | 93,320 | 23% | 7.4 | 15 | \$27,646 | 88% | 0.6 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | Early | ton | 154,988 | 23% | 12.2 | 15 | \$302,924 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | New | ton | 140,275 | 14% | 7.0 | 15 | \$115,432 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | ROB | ton | 154,988 | 23% | 12.2 | 15 | \$115,432 | 88% | 0.2 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | Early | ton | 185,985 | 23% | 14.6 | 15 | \$350,154 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | New | ton | 168,330 | 14% | 8.5 | 15 | \$120,406 | 88% | 0.2 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | ROB | ton | 185,985 | 23% | 14.6 | 15 | \$120,406 | 88% | 0.3 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | Early | ton | 41,225 | 29% | 4.2 | 15 | \$83,632 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | New | ton | 32,011 | 8.9% | 1.0 | 15 | \$40,211 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | ROB | ton | 41,225 | 29% | 4.2 | 15 | \$40,211 | 88% | 0.2 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | Early | ton | 70,835 | 35% | 8.6 | 15 | \$132,173 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | New | ton | 52,831 | 13% | 2.3 | 15 | \$39,556 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | ROB | ton | 52,831 | 13% | 2.3 | 15 | \$39,556 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | Early | ton | 118,265 | 39% | 16.1 | 15 | \$187,029 | 88% | 0.2 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | New | ton | 84,321 | 15% | 4.3 | 15 | \$33,554 | 88% | 0.3 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | ROB | ton | 118,265 | 39% | 16.1 | 15 | \$33,554 | 88% | 1.1 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | Early | ton | 20,695 | 30% | 2.1 | 15 | \$32,398 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | New | ton | 16,396 | 11% | 0.6 | 15 | \$7,188 | 88% | 0.2 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | ROB | ton | 20,695 | 30% | 2.1 | 15 | \$7,188 | 88% | 0.7 |
| FE-WPP | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Other Inst'l | Cooling Central | Existing | building | 1,702 | 1.0% | 0.01 | 10 | \$41,718 | 81% | 0.0 |
| FE-WPP | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Other Inst'l | Cooling Central | New | building | 1,702 | 1.1% | 0.01 | 10 | \$41,718 | 81% | 0.0 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Other Inst'l | Cooling Central | Existing | building | 1,702 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.1 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Other Inst'l | Cooling Central | New | building | 1,702 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.2 |
| FE-WPP | Re-Commissioning (Existing Construction) | No Re-Commissioning | Other Inst'l | Cooling Central | Existing | building | 1,702 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Other Inst'l | Cooling Central | Existing | building | 1,702 | 13% | 0.1 | 15 | \$3,285 | 26% | 0.1 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Other Inst'l | Cooling Central | New | building | 1,702 | 0.3% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| FE-WPP | <65k BTU/hr 14 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Other Inst'l | Cooling Unitary | Early | ton | 2,614 | 16% | 0.2 | 15 | \$1,545 | 29% | 0.3 |
| FE-WPP | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Other Inst'l | Cooling Unitary | New | ton | 2,368 | 7.1% | 0.09 | 15 | \$339 | 29% | 0.5 |
| FE-WPP | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Other Inst'l | Cooling Unitary | ROB | ton | 2,368 | 7.1% | 0.09 | 15 | \$339 | 29% | 0.5 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|--|--------------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | <65k BTU/hr 15 SEER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Other Inst'l | Cooling Unitary | Early | ton | 2,614 | 22% | 0.3 | 15 | \$1,821 | 30% | 0.3 |
| FE-WPP | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Other Inst'l | Cooling Unitary | New | ton | 2,368 | 13% | 0.2 | 15 | \$714 | 30% | 0.4 |
| FE-WPP | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Other Inst'l | Cooling Unitary | ROB | ton | 2,368 | 13% | 0.2 | 15 | \$714 | 30% | 0.4 |
| FE-WPP | <65k BTU/hr 16 SEER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Other Inst'l | Cooling Unitary | Early | ton | 2,614 | 26% | 0.4 | 15 | \$2,098 | 31% | 0.3 |
| FE-WPP | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Other Inst'l | Cooling Unitary | New | ton | 2,368 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.4 |
| FE-WPP | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Other Inst'l | Cooling Unitary | ROB | ton | 2,368 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.4 |
| FE-WPP | >760k min 10.2 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Other Inst'l | Cooling Unitary | Early | ton | 66,142 | 3.7% | 1.3 | 15 | \$68,066 | 56% | 0.0 |
| FE-WPP | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Other Inst'l | Cooling Unitary | New | ton | 66,990 | 4.9% | 1.7 | 15 | \$6,231 | 56% | 0.5 |
| FE-WPP | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Other Inst'l | Cooling Unitary | ROB | ton | 66,990 | 4.9% | 1.7 | 15 | \$6,231 | 56% | 0.5 |
| FE-WPP | 135-240k min 12 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Other Inst'l | Cooling Unitary | Early | ton | 16,274 | 18% | 1.6 | 15 | \$18,135 | 79% | 0.2 |
| FE-WPP | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Other Inst'l | Cooling Unitary | New | ton | 14,804 | 10.0% | 0.8 | 15 | \$1,948 | 79% | 0.7 |
| FE-WPP | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Other Inst'l | Cooling Unitary | ROB | ton | 14,804 | 10.0% | 0.8 | 15 | \$1,948 | 79% | 0.7 |
| FE-WPP | 240k-760k min 11 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Other Inst'l | Cooling Unitary | Early | ton | 43,515 | 9.0% | 2.1 | 15 | \$44,809 | 66% | 0.1 |
| FE-WPP | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Other Inst'l | Cooling Unitary | New | ton | 43,623 | 9.3% | 2.1 | 15 | \$4,813 | 66% | 0.8 |
| FE-WPP | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Other Inst'l | Cooling Unitary | ROB | ton | 43,623 | 9.3% | 2.1 | 15 | \$4,813 | 66% | 0.8 |
| FE-WPP | 65k-135k BTU/hr 12 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Other Inst'l | Cooling Unitary | Early | ton | 9,594 | 17% | 0.9 | 15 | \$10,946 | 86% | 0.1 |
| FE-WPP | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Other Inst'l | Cooling Unitary | New | ton | 8,550 | 6.7% | 0.3 | 15 | \$1,392 | 86% | 0.4 |
| FE-WPP | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Other Inst'l | Cooling Unitary | ROB | ton | 8,550 | 6.7% | 0.3 | 15 | \$1,392 | 86% | 0.4 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Other Inst'l | Cooling Unitary | Existing | building | 20,299 | 7.1% | 0.07 | 6 | \$12,489 | 82% | 0.0 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Other Inst'l | Cooling Unitary | New | building | 20,299 | 7.0% | 0.07 | 6 | \$12,489 | 82% | 0.0 |
| FE-WPP | Adding window shade film | No shade film | Other Inst'l | Cooling Unitary | Existing | building | 20,299 | 1.3% | 0.4 | 10 | \$247 | 12% | 1.4 |
| FE-WPP | Adding window shade film | No shade film | Other Inst'l | Cooling Unitary | New | building | 20,299 | 1.3% | 0.4 | 10 | \$247 | 13% | 1.4 |
| FE-WPP | Adding window shade screen | No shade screen | Other Inst'l | Cooling Unitary | Existing | building | 20,299 | 1.1% | 0.01 | 10 | \$96 | 12% | 0.9 |
| FE-WPP | Adding window shade screen | No shade screen | Other Inst'l | Cooling Unitary | New | building | 20,299 | 1.1% | 0.01 | 10 | \$96 | 13% | 0.9 |
| FE-WPP | Automated control system | Manual Controls | Other Inst'l | Cooling Unitary | Existing | building | 20,299 | 17% | 0.2 | 15 | \$22,222 | 51% | 0.1 |
| FE-WPP | Automated control system | Manual Controls | Other Inst'l | Cooling Unitary | New | building | 20,299 | 17% | 0.2 | 15 | \$22,222 | 94% | 0.1 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Other Inst'l | Cooling Unitary | Existing | building | 20,299 | 7.2% | 0.07 | 15 | \$17,130 | 71% | 0.0 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Other Inst'l | Cooling Unitary | New | building | 20,299 | 2.4% | 0.02 | 15 | \$16,283 | 94% | 0.0 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Other Inst'l | Cooling Unitary | Existing | building | 20,299 | 1.4% | 0.04 | 15 | \$161 | 20% | 1.1 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Other Inst'l | Cooling Unitary | New | building | 20,299 | 1.4% | 0.04 | 15 | \$161 | 10% | 1.1 |
| FE-WPP | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Other Inst'l | Cooling Unitary | Existing | building | 11,164 | 13% | 0.1 | 1 | \$107 | 73% | 0.8 |
| FE-WPP | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Other Inst'l | Cooling Unitary | New | building | 11,164 | 13% | 0.1 | 1 | \$107 | 73% | 0.8 |
| FE-WPP | ECM Motors for split systems | Std Shaded Pole Motor | Other Inst'l | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.7 |
| FE-WPP | ECM Motors for split systems | Std Shaded Pole Motor | Other Inst'l | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.7 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Other Inst'l | Cooling Unitary | Existing | building | 20,299 | 7.1% | 0.07 | 15 | \$90,041 | 25% | 0.0 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Other Inst'l | Cooling Unitary | New | building | 20,299 | 7.1% | 0.07 | 15 | \$90,041 | 35% | 0.0 |
| FE-WPP | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Other Inst'l | Cooling Unitary | Existing | building | 20,299 | 5.0% | 0.05 | 5 | \$225 | 59% | 1.0 |
| FE-WPP | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Other Inst'l | Cooling Unitary | Existing | building | 20,299 | 1.3% | 0.09 | 5 | \$225 | 51% | 0.4 |
| FE-WPP | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Other Inst'l | Cooling Unitary | New | building | 20,299 | 1.1% | 0.08 | 5 | \$135 | 51% | 0.6 |
| FE-WPP | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Other Inst'l | Cooling Unitary | Existing | building | 20,299 | 1.1% | 0.01 | 10 | \$44,835 | 86% | 0.0 |
| FE-WPP | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Other Inst'l | Cooling Unitary | New | building | 20,299 | 1.1% | 0.01 | 10 | \$44,835 | 86% | 0.0 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) | Other Inst'l | Cooling Unitary | Existing | building | 20,299 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.6 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Other Inst'l | Cooling Unitary | New | building | 20,299 | 1.7% | 0.02 | 11 | \$146 | 49% | 1.0 |
| FE-WPP | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Other Inst'l | Cooling Unitary | Early | unit | 1,434 | 19% | 0.09 | 15 | \$849 | 85% | 0.3 |
| FE-WPP | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Other Inst'l | Cooling Unitary | New | unit | 1,448 | 20% | 0.09 | 15 | \$356 | 85% | 0.6 |
| FE-WPP | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Other Inst'l | Cooling Unitary | ROB | unit | 1,448 | 20% | 0.09 | 15 | \$356 | 85% | 0.6 |
| FE-WPP | Re-Commissioning (Existing Construction) | No Re-Commissioning | Other Inst'l | Cooling Unitary | Existing | building | 20,299 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.1 |
| FE-WPP | Room AC (w/ louvered sides) | Existing efficiency Room AC in Pennsylvania (2000 Federal Standards) | Other Inst'l | Cooling Unitary | Early | ton | 1,185 | 13% | 0.06 | 9 | \$348 | 82% | 0.2 |
| FE-WPP | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Other Inst'l | Cooling Unitary | New | ton | 1,074 | 4.5% | 0.02 | 9 | \$17 | 82% | 1.5 |
| FE-WPP | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Other Inst'l | Cooling Unitary | ROB | ton | 1,074 | 4.5% | 0.02 | 9 | \$17 | 82% | 1.5 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Other Inst'l | Cooling Unitary | Existing | building | 20,299 | 13% | 0.1 | 15 | \$3,285 | 26% | 0.4 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Other Inst'l | Cooling Unitary | New | building | 20,299 | 0.3% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| FE-WPP | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Other Inst'l | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 1.0 |
| FE-WPP | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Other Inst'l | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.3 |
| FE-WPP | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Other Inst'l | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.3 |
| FE-WPP | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Other Inst'l | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 0% | 0.2 |
| FE-WPP | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Other Inst'l | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-WPP | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Other Inst'l | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-WPP | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Other Inst'l | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 75% | 0.3 |
| FE-WPP | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Other Inst'l | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 75% | 0.2 |
| FE-WPP | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Other Inst'l | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.6 |
| FE-WPP | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Other Inst'l | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|--|--|--------------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Other Inst'l | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.6 |
| FE-WPP | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Other Inst'l | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.0 |
| FE-WPP | Photocell Controls (Outdoor) | Lighting w/ No Controls | Other Inst'l | Ext. Lighting | Existing | building | 239 | 28% | 0.3 | 8 | \$5,088 | 88% | 0.0 |
| FE-WPP | Photocell Controls (Outdoor) | Lighting w/ No Controls | Other Inst'l | Ext. Lighting | New | building | 239 | 28% | 0.3 | 8 | \$5,088 | 0% | 0.0 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Other Inst'l | Heat Pump | Existing | building | 1,874 | 6.9% | 0.07 | 6 | \$12,489 | 82% | 0.0 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Other Inst'l | Heat Pump | New | building | 1,874 | 6.9% | 0.07 | 6 | \$12,489 | 82% | 0.0 |
| FE-WPP | Adding window shade film | No shade film | Other Inst'l | Heat Pump | Existing | building | 1,874 | 3.9% | 0.4 | 10 | \$23 | 12% | 11.7 |
| FE-WPP | Adding window shade film | No shade film | Other Inst'l | Heat Pump | New | building | 1,874 | 3.9% | 0.4 | 10 | \$23 | 12% | 11.7 |
| FE-WPP | Adding window shade screen | No shade screen | Other Inst'l | Heat Pump | Existing | building | 1,874 | 0.3% | 0.01 | 10 | \$2.9 | 12% | 3.0 |
| FE-WPP | Adding window shade screen | No shade screen | Other Inst'l | Heat Pump | New | building | 1,874 | 0.3% | 0.01 | 10 | \$2.9 | 12% | 2.9 |
| FE-WPP | Automated control system | Manual Controls | Other Inst'l | Heat Pump | Existing | building | 1,874 | 17% | 0.2 | 15 | \$2,052 | 51% | 0.1 |
| FE-WPP | Automated control system | Manual Controls | Other Inst'l | Heat Pump | New | building | 1,874 | 17% | 0.2 | 15 | \$2,052 | 94% | 0.1 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Other Inst'l | Heat Pump | Existing | building | 1,874 | 7.2% | 0.07 | 15 | \$17,130 | 71% | 0.0 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Other Inst'l | Heat Pump | New | building | 1,874 | 2.4% | 0.02 | 15 | \$16,283 | 94% | 0.0 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Other Inst'l | Heat Pump | Existing | building | 1,874 | 4.0% | 0.04 | 15 | \$15 | 12% | 4.7 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Other Inst'l | Heat Pump | New | building | 1,874 | 4.0% | 0.04 | 15 | \$15 | 6% | 4.7 |
| FE-WPP | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Other Inst'l | Heat Pump | Early | heat pump | 2,289 | 12% | 0.02 | 15 | \$4,070 | 83% | 0.0 |
| FE-WPP | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Other Inst'l | Heat Pump | New | heat pump | 2,182 | 7.8% | 0.01 | 15 | \$1,097 | 83% | 0.1 |
| FE-WPP | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Other Inst'l | Heat Pump | ROB | heat pump | 2,182 | 7.8% | 0.01 | 15 | \$1,097 | 83% | 0.1 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Other Inst'l | Heat Pump | Existing | building | 1,874 | 7.0% | 0.07 | 15 | \$8,315 | 25% | 0.0 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Other Inst'l | Heat Pump | New | building | 1,874 | 7.0% | 0.07 | 15 | \$8,315 | 35% | 0.0 |
| FE-WPP | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Other Inst'l | Heat Pump | Early | heat pump | 23,587 | 16% | 0.3 | 15 | \$91,117 | 19% | 0.0 |
| FE-WPP | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Other Inst'l | Heat Pump | New | heat pump | 22,730 | 13% | 0.3 | 15 | \$33,927 | 19% | 0.0 |
| FE-WPP | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Other Inst'l | Heat Pump | ROB | heat pump | 22,730 | 13% | 0.3 | 15 | \$33,927 | 19% | 0.0 |
| FE-WPP | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Other Inst'l | Heat Pump | Early | heat pump | 23,587 | 16% | 0.3 | 15 | \$58,356 | 19% | 0.0 |
| FE-WPP | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Other Inst'l | Heat Pump | New | heat pump | 22,730 | 13% | 0.3 | 15 | \$1,167 | 19% | 1.4 |
| FE-WPP | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Other Inst'l | Heat Pump | ROB | heat pump | 22,730 | 13% | 0.3 | 15 | \$1,167 | 19% | 1.4 |
| FE-WPP | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Other Inst'l | Heat Pump | Early | heat pump | 6,103 | 17% | 0.09 | 12 | \$4,298 | 81% | 0.1 |
| FE-WPP | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Other Inst'l | Heat Pump | New | heat pump | 5,819 | 12% | 0.06 | 12 | \$852 | 81% | 0.4 |
| FE-WPP | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Other Inst'l | Heat Pump | ROB | heat pump | 5,819 | 12% | 0.06 | 12 | \$852 | 81% | 0.4 |
| FE-WPP | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Other Inst'l | Heat Pump | Existing | building | 1,874 | 5.0% | 0.01 | 5 | \$90 | 51% | 0.2 |
| FE-WPP | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Other Inst'l | Heat Pump | New | building | 1,874 | 5.0% | 0.01 | 5 | \$90 | 51% | 0.2 |
| FE-WPP | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Other Inst'l | Heat Pump | Existing | building | 1,874 | 1.0% | 0.01 | 10 | \$39,918 | 81% | 0.0 |
| FE-WPP | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Other Inst'l | Heat Pump | New | building | 1,874 | 1.0% | 0.01 | 10 | \$39,918 | 81% | 0.0 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Other Inst'l | Heat Pump | Existing | building | 1,874 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.1 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Other Inst'l | Heat Pump | New | building | 1,874 | 2.1% | 0.02 | 11 | \$146 | 49% | 0.2 |
| FE-WPP | Re-Commissioning (Existing Construction) | No Re-Commissioning | Other Inst'l | Heat Pump | Existing | building | 1,874 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Other Inst'l | Heat Pump | Existing | building | 1,874 | 13% | 0.1 | 15 | \$3,285 | 26% | 0.1 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Other Inst'l | Heat Pump | New | building | 1,874 | 0.3% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| FE-WPP | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Other Inst'l | Heat Pump | Early | heat pump | 9,790 | 35% | 0.3 | 15 | \$35,347 | 28% | 0.1 |
| FE-WPP | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Other Inst'l | Heat Pump | New | heat pump | 9,304 | 31% | 0.3 | 15 | \$15,739 | 28% | 0.1 |
| FE-WPP | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Other Inst'l | Heat Pump | ROB | heat pump | 9,304 | 31% | 0.3 | 15 | \$15,739 | 28% | 0.1 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 299 | 9.6% | 0.01 | 13 | \$850 | 39% | 0.0 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Other Inst'l | High Bay Lighting | Early | Fixture | 299 | 9.5% | 0.01 | 13 | \$850 | 28% | 0.0 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 461 | 41% | 0.04 | 13 | \$850 | 36% | 0.1 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 227 | 9.6% | 0.00 | 13 | \$372 | 39% | 0.0 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 211 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 350 | 41% | 0.03 | 13 | \$397 | 36% | 0.2 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 299 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.0 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 278 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 461 | 41% | 0.04 | 13 | \$397 | 36% | 0.3 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 580 | 19% | 0.02 | 13 | \$851 | 38% | 0.1 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Other Inst'l | High Bay Lighting | Early | Fixture | 587 | 20% | 0.02 | 13 | \$851 | 38% | 0.1 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 1,708 | 73% | 0.2 | 13 | \$851 | 38% | 0.8 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 441 | 19% | 0.02 | 13 | \$372 | 38% | 0.1 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 1,298 | 73% | 0.2 | 13 | \$383 | 38% | 1.4 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 580 | 19% | 0.02 | 13 | \$372 | 38% | 0.2 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 1,708 | 73% | 0.2 | 13 | \$383 | 38% | 1.9 |
| FE-WPP | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 580 | 25% | 0.03 | 13 | \$554 | 29% | 0.2 |
| FE-WPP | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Other Inst'l | High Bay Lighting | Early | Fixture | 569 | 23% | 0.03 | 13 | \$554 | 28% | 0.1 |
| FE-WPP | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 1,708 | 74% | 0.2 | 13 | \$554 | 36% | 1.3 |
| FE-WPP | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 441 | 25% | 0.02 | 13 | \$75 | 29% | 0.8 |
| FE-WPP | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 1,298 | 74% | 0.2 | 13 | \$86 | 36% | 6.6 |
| FE-WPP | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 580 | 25% | 0.03 | 13 | \$75 | 29% | 1.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|---|--------------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 1,708 | 74% | 0.2 | 13 | \$86 | 36% | 8.7 |
| FE-WPP | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Other Inst'l | High Bay Lighting | Early | Fixture | 151 | 0.2% | 0.00 | 13 | \$835 | 38% | 0.0 |
| FE-WPP | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 326 | 54% | 0.03 | 13 | \$835 | 38% | 0.1 |
| FE-WPP | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 248 | 54% | 0.03 | 13 | \$382 | 38% | 0.2 |
| FE-WPP | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 326 | 54% | 0.03 | 13 | \$382 | 38% | 0.3 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 739 | 18% | 0.03 | 13 | \$487 | 25% | 0.2 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Other Inst'l | High Bay Lighting | Early | Fixture | 773 | 22% | 0.03 | 13 | \$487 | 28% | 0.2 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 1,708 | 65% | 0.2 | 13 | \$487 | 36% | 1.3 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 562 | 18% | 0.02 | 13 | \$16 | 25% | 3.7 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 1,298 | 65% | 0.2 | 13 | \$18 | 36% | 26.6 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 739 | 18% | 0.03 | 13 | \$16 | 25% | 4.8 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 1,708 | 65% | 0.2 | 13 | \$18 | 36% | 35.0 |
| FE-WPP | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 739 | 1.5% | 0.00 | 13 | \$557 | 19% | 0.0 |
| FE-WPP | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Other Inst'l | High Bay Lighting | Early | Fixture | 761 | 4.3% | 0.01 | 13 | \$557 | 19% | 0.0 |
| FE-WPP | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 1,708 | 57% | 0.2 | 13 | \$557 | 19% | 1.0 |
| FE-WPP | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 562 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| FE-WPP | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 1,298 | 57% | 0.1 | 13 | \$88 | 19% | 4.9 |
| FE-WPP | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 739 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| FE-WPP | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 1,708 | 57% | 0.2 | 13 | \$88 | 19% | 6.5 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 314 | 29% | 0.01 | 13 | \$492 | 71% | 0.1 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 262 | 15% | 0.01 | 13 | \$492 | 95% | 0.0 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 390 | 43% | 0.02 | 13 | \$492 | 95% | 0.2 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 361 | 38% | 0.02 | 13 | \$492 | 95% | 0.2 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 199 | 15% | 0.00 | 13 | \$25 | 95% | 0.6 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 296 | 43% | 0.02 | 13 | \$51 | 95% | 1.3 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 262 | 15% | 0.01 | 13 | \$25 | 95% | 0.9 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 390 | 43% | 0.02 | 13 | \$51 | 95% | 1.7 |
| FE-WPP | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Other Inst'l | High Bay Lighting | Early | lamp | 86 | 16% | 0.00 | 12 | \$7.7 | 99% | 1.0 |
| FE-WPP | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Other Inst'l | High Bay Lighting | New | lamp | 51 | 13% | 0.00 | 12 | \$1.6 | 91% | 2.3 |
| FE-WPP | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Other Inst'l | High Bay Lighting | ROB | lamp | 82 | 13% | 0.00 | 12 | \$1.6 | 91% | 3.7 |
| FE-WPP | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 1,748 | 23% | 0.08 | 13 | \$613 | 5% | 0.4 |
| FE-WPP | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Other Inst'l | High Bay Lighting | Early | Fixture | 1,373 | 1.6% | 0.00 | 13 | \$613 | 28% | 0.0 |
| FE-WPP | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 3,417 | 60% | 0.4 | 13 | \$613 | 18% | 2.0 |
| FE-WPP | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 1,329 | 23% | 0.06 | 13 | \$96 | 5% | 1.8 |
| FE-WPP | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 1,748 | 23% | 0.08 | 13 | \$96 | 5% | 2.4 |
| FE-WPP | Auto Off Time Switch | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | Existing | building | 661 | 24% | 0.2 | 8 | \$1,034 | 13% | 0.2 |
| FE-WPP | Auto Off Time Switch | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | New | building | 661 | 6.9% | 0.07 | 8 | \$1,034 | 0% | 0.1 |
| FE-WPP | Central Lighting Control System | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | Existing | building | 661 | 38% | 0.4 | 8 | \$1,034 | 13% | 0.3 |
| FE-WPP | Central Lighting Control System | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | New | building | 661 | 14% | 0.1 | 8 | \$1,034 | 13% | 0.1 |
| FE-WPP | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Other Inst'l | High Bay Lighting | New | building | 661 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.0 |
| FE-WPP | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Other Inst'l | High Bay Lighting | New | building | 661 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |
| FE-WPP | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Other Inst'l | High Bay Lighting | New | building | 661 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| FE-WPP | Indoor Daylight Sensors | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | Existing | building | 661 | 28% | 0.3 | 8 | \$5,088 | 13% | 0.0 |
| FE-WPP | Indoor Daylight Sensors | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | New | building | 661 | 4.0% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| FE-WPP | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 1,748 | 92% | 0.3 | 13 | \$1,916 | 95% | 0.5 |
| FE-WPP | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 3,417 | 96% | 0.6 | 13 | \$1,916 | 95% | 1.0 |
| FE-WPP | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 1,329 | 92% | 0.2 | 13 | \$1,468 | 95% | 0.5 |
| FE-WPP | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 2,597 | 96% | 0.5 | 13 | \$1,149 | 95% | 1.3 |
| FE-WPP | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 1,748 | 92% | 0.3 | 13 | \$1,468 | 95% | 0.6 |
| FE-WPP | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 3,417 | 96% | 0.6 | 13 | \$1,149 | 95% | 1.7 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 580 | 67% | 0.07 | 13 | \$960 | 95% | 0.2 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 1,708 | 89% | 0.3 | 13 | \$960 | 95% | 0.9 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 469 | 59% | 0.05 | 13 | \$960 | 95% | 0.2 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 441 | 67% | 0.06 | 13 | \$480 | 95% | 0.4 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 1,298 | 89% | 0.2 | 13 | \$491 | 95% | 1.4 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 356 | 59% | 0.04 | 13 | \$406 | 95% | 0.3 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 580 | 67% | 0.07 | 13 | \$480 | 95% | 0.5 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 1,708 | 89% | 0.3 | 13 | \$491 | 95% | 1.8 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 469 | 59% | 0.05 | 13 | \$406 | 95% | 0.4 |
| FE-WPP | Occupancy Sensor | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | Existing | building | 661 | 24% | 0.2 | 8 | \$1,558 | 11% | 0.1 |
| FE-WPP | Occupancy Sensor | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | New | building | 661 | 6.9% | 0.07 | 8 | \$1,558 | 0% | 0.0 |
| FE-WPP | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | Existing | building | 661 | 28% | 0.3 | 8 | \$5,088 | 11% | 0.0 |
| FE-WPP | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | New | building | 661 | 4.0% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| FE-WPP | Time Clock Control | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | Existing | building | 661 | 28% | 0.3 | 8 | \$1,034 | 13% | 0.2 |
| FE-WPP | Time Clock Control | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | New | building | 661 | 4.0% | 0.04 | 8 | \$1,034 | 0% | 0.0 |
| FE-WPP | Auto Off Time Switch | Lighting w/ No Controls | Other Inst'l | Lin. Fluor. Lighting | Existing | building | 20,705 | 24% | 0.2 | 8 | \$1,034 | 13% | 1.6 |
| FE-WPP | Auto Off Time Switch | Lighting w/ No Controls | Other Inst'l | Lin. Fluor. Lighting | New | building | 20,705 | 7.0% | 0.07 | 8 | \$1,034 | 0% | 0.5 |
| FE-WPP | Central Lighting Control System | Lighting w/ No Controls | Other Inst'l | Lin. Fluor. Lighting | Existing | building | 20,705 | 38% | 0.4 | 8 | \$1,034 | 12% | 2.5 |
| FE-WPP | Central Lighting Control System | Lighting w/ No Controls | Other Inst'l | Lin. Fluor. Lighting | New | building | 20,705 | 14% | 0.1 | 8 | \$1,034 | 12% | 0.9 |
| FE-WPP | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Other Inst'l | Lin. Fluor. Lighting | New | building | 20,705 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.0 |
| FE-WPP | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Other Inst'l | Lin. Fluor. Lighting | New | building | 20,705 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|--|--------------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Other Inst'l | Lin. Fluor. Lighting | New | building | 20,705 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| FE-WPP | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Other Inst'l | Lin. Fluor. Lighting | Early | Lamp | 172 | 38% | 0.01 | 12 | \$7.3 | 94% | 4.9 |
| FE-WPP | Indoor Daylight Sensors | Lighting w/ No Controls | Other Inst'l | Lin. Fluor. Lighting | Existing | building | 20,705 | 28% | 0.3 | 8 | \$5,088 | 13% | 0.4 |
| FE-WPP | Indoor Daylight Sensors | Lighting w/ No Controls | Other Inst'l | Lin. Fluor. Lighting | New | building | 20,705 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.1 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | Early | Lamp | 38 | 19% | 0.00 | 15 | \$35 | 94% | 0.1 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 40W T12 Lamp, Magnetic Ballast | Other Inst'l | Lin. Fluor. Lighting | Early | Lamp | 83 | 63% | 0.01 | 15 | \$35 | 94% | 1.0 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | Early | Lamp | 46 | 34% | 0.00 | 15 | \$35 | 94% | 0.3 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | Early | Lamp | 45 | 32% | 0.00 | 15 | \$35 | 94% | 0.3 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | New | Lamp | 29 | 19% | 0.00 | 15 | \$28 | 94% | 0.1 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | New | Lamp | 34 | 32% | 0.00 | 15 | \$29 | 94% | 0.2 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | New | Lamp | 35 | 34% | 0.00 | 15 | \$22 | 94% | 0.4 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | New | Lamp | 34 | 32% | 0.00 | 15 | \$29 | 94% | 0.2 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | ROB | Lamp | 38 | 19% | 0.00 | 15 | \$28 | 94% | 0.2 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | ROB | Lamp | 45 | 32% | 0.00 | 15 | \$29 | 94% | 0.3 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | ROB | Lamp | 46 | 34% | 0.00 | 15 | \$22 | 94% | 0.5 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | ROB | Lamp | 45 | 32% | 0.00 | 15 | \$29 | 94% | 0.3 |
| FE-WPP | Occupancy Sensor | Lighting w/ No Controls | Other Inst'l | Lin. Fluor. Lighting | Existing | building | 20,705 | 24% | 0.2 | 8 | \$1,558 | 12% | 1.0 |
| FE-WPP | Occupancy Sensor | Lighting w/ No Controls | Other Inst'l | Lin. Fluor. Lighting | New | building | 20,705 | 7.0% | 0.07 | 8 | \$1,558 | 0% | 0.3 |
| FE-WPP | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Other Inst'l | Lin. Fluor. Lighting | Existing | building | 20,705 | 28% | 0.3 | 8 | \$5,088 | 11% | 0.4 |
| FE-WPP | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Other Inst'l | Lin. Fluor. Lighting | New | building | 20,705 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.1 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 40W T12 w/ Magnetic Ballast | Other Inst'l | Lin. Fluor. Lighting | Early | Lamp | 172 | 54% | 0.02 | 12 | \$9.1 | 94% | 5.6 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | Early | Lamp | 110 | 28% | 0.01 | 12 | \$9.1 | 24% | 1.9 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | Early | Lamp | 107 | 26% | 0.01 | 12 | \$9.1 | 94% | 1.7 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | New | Lamp | 81 | 26% | 0.00 | 12 | \$2.5 | 94% | 4.6 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | New | Lamp | 81 | 26% | 0.00 | 12 | \$2.5 | 94% | 4.6 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | New | Lamp | 84 | 28% | 0.00 | 12 | \$2.5 | 24% | 5.2 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | New | Lamp | 81 | 26% | 0.00 | 12 | \$2.5 | 94% | 4.6 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | ROB | Lamp | 107 | 26% | 0.01 | 12 | \$2.5 | 94% | 6.0 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | ROB | Lamp | 107 | 26% | 0.01 | 12 | \$2.5 | 94% | 6.0 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | ROB | Lamp | 110 | 28% | 0.01 | 12 | \$2.5 | 24% | 6.8 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | ROB | Lamp | 107 | 26% | 0.01 | 12 | \$2.5 | 94% | 6.0 |
| FE-WPP | T8 Lamp (any length) Electronic Ballast | Standard T12 lamp (any length) | Other Inst'l | Lin. Fluor. Lighting | Early | Lamp | 202 | 42% | 0.02 | 12 | \$14 | 94% | 3.4 |
| FE-WPP | Time Clock Control | Lighting w/ No Controls | Other Inst'l | Lin. Fluor. Lighting | Existing | building | 20,705 | 28% | 0.3 | 8 | \$1,034 | 14% | 1.8 |
| FE-WPP | Time Clock Control | Lighting w/ No Controls | Other Inst'l | Lin. Fluor. Lighting | New | building | 20,705 | 4.1% | 0.04 | 8 | \$1,034 | 0% | 0.3 |
| FE-WPP | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | Early | motor | 3,361 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| FE-WPP | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | Early | motor | 3,361 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| FE-WPP | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | Early | motor | 3,361 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| FE-WPP | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | Early | motor | 3,361 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| FE-WPP | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | Early | motor | 3,361 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| FE-WPP | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | New | motor | 3,259 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-WPP | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | New | motor | 3,259 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-WPP | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | New | motor | 3,259 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-WPP | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | New | motor | 3,259 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-WPP | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | ROB | motor | 3,259 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-WPP | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | ROB | motor | 3,259 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-WPP | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | ROB | motor | 3,259 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-WPP | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | ROB | motor | 3,259 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| FE-WPP | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | Early | motor | 4,956 | 3.0% | 0.02 | 15 | \$402 | 76% | 0.2 |
| FE-WPP | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | Early | motor | 4,956 | 3.0% | 0.02 | 15 | \$402 | 76% | 0.2 |
| FE-WPP | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | Early | motor | 4,956 | 3.0% | 0.02 | 15 | \$402 | 76% | 0.2 |
| FE-WPP | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | Early | motor | 4,956 | 3.0% | 0.02 | 15 | \$402 | 76% | 0.2 |
| FE-WPP | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | Early | motor | 4,956 | 3.0% | 0.02 | 15 | \$402 | 76% | 0.2 |
| FE-WPP | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | New | motor | 4,832 | 0.5% | 0.00 | 15 | \$60 | 76% | 0.3 |
| FE-WPP | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | New | motor | 4,832 | 0.5% | 0.00 | 15 | \$60 | 76% | 0.3 |
| FE-WPP | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | New | motor | 4,832 | 0.5% | 0.00 | 15 | \$60 | 76% | 0.3 |
| FE-WPP | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | New | motor | 4,832 | 0.5% | 0.00 | 15 | \$60 | 76% | 0.3 |
| FE-WPP | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | New | motor | 4,832 | 0.5% | 0.00 | 15 | \$60 | 76% | 0.3 |
| FE-WPP | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | ROB | motor | 4,832 | 0.5% | 0.00 | 15 | \$60 | 76% | 0.3 |
| FE-WPP | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | ROB | motor | 4,832 | 0.5% | 0.00 | 15 | \$60 | 76% | 0.3 |
| FE-WPP | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | ROB | motor | 4,832 | 0.5% | 0.00 | 15 | \$60 | 76% | 0.3 |
| FE-WPP | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | ROB | motor | 4,832 | 0.5% | 0.00 | 15 | \$60 | 76% | 0.3 |
| FE-WPP | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | ROB | motor | 4,832 | 0.5% | 0.00 | 15 | \$60 | 76% | 0.3 |
| FE-WPP | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | ROB | motor | 4,832 | 0.5% | 0.00 | 15 | \$60 | 76% | 0.3 |
| FE-WPP | 100 HP Motor, Ultra-PE | 100 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | Early | motor | 295,570 | 1.7% | 0.6 | 15 | \$5,100 | 47% | 0.6 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|---|--------------|---------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | New | motor | 219,972 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.1 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | New | motor | 219,972 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.1 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | New | motor | 219,972 | 0.4% | 0.1 | 15 | \$554 | 61% | 1.1 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | ROB | motor | 219,972 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.1 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | ROB | motor | 219,972 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.1 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | ROB | motor | 219,972 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.1 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | ROB | motor | 219,972 | 0.4% | 0.1 | 15 | \$554 | 61% | 1.1 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Other Inst'l | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 20.2 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Other Inst'l | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 20.7 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Other Inst'l | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 20.9 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Other Inst'l | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 21.5 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Other Inst'l | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 22.0 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Other Inst'l | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 20.1 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Other Inst'l | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 20.5 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Other Inst'l | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 21.2 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Other Inst'l | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 21.3 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Other Inst'l | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 21.9 |
| FE-WPP | Escalator Motor Controller | Constant power control | Other Inst'l | Motors | New | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 22% | 5.6 |
| FE-WPP | Escalator Motor Controller | Constant power control | Other Inst'l | Motors | ROB | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 22% | 5.6 |
| FE-WPP | Variable Speed Drive Control, 15HP | Existing Motors w/out VSD Drive | Other Inst'l | Motors | Early | motor | 45,928 | 70% | 4.7 | 15 | \$731 | 86% | 27.1 |
| FE-WPP | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Other Inst'l | Motors | New | motor | 44,940 | 72% | 4.7 | 15 | \$731 | 86% | 27.1 |
| FE-WPP | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Other Inst'l | Motors | ROB | motor | 44,940 | 71% | 4.7 | 15 | \$731 | 86% | 27.1 |
| FE-WPP | Variable Speed Drive Control, 40HP | Existing Motors w/out VSD Drive | Other Inst'l | Motors | Early | motor | 119,841 | 71% | 12.5 | 15 | \$4,666 | 86% | 11.2 |
| FE-WPP | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Other Inst'l | Motors | New | motor | 118,440 | 72% | 12.5 | 15 | \$4,666 | 86% | 11.2 |
| FE-WPP | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Other Inst'l | Motors | ROB | motor | 118,440 | 72% | 12.5 | 15 | \$4,666 | 86% | 11.2 |
| FE-WPP | Variable Speed Drive Control, 5HP | Existing Motors w/out VFD Drive | Other Inst'l | Motors | Early | motor | 15,922 | 72% | 1.7 | 15 | \$2,243 | 86% | 3.1 |
| FE-WPP | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Other Inst'l | Motors | New | motor | 15,566 | 71% | 1.6 | 15 | \$2,243 | 86% | 3.1 |
| FE-WPP | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Other Inst'l | Motors | ROB | motor | 15,566 | 72% | 1.6 | 15 | \$2,243 | 86% | 3.1 |
| FE-WPP | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Other Inst'l | Motors | Early | motor | 5,707 | 20% | 0.1 | 15 | \$268 | 13% | 2.5 |
| FE-WPP | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Other Inst'l | Motors | New | motor | 5,707 | 20% | 0.1 | 15 | \$268 | 13% | 2.5 |
| FE-WPP | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Other Inst'l | Motors | ROB | motor | 5,707 | 20% | 0.1 | 15 | \$268 | 13% | 2.5 |
| FE-WPP | VFD on Chilled Water Pump | Motor w/out VFD Drive | Other Inst'l | Motors | Early | motor | 16,590 | 55% | 2.7 | 15 | \$2,903 | 86% | 2.3 |
| FE-WPP | VFD on Chilled Water Pump | Motor w/out VFD Drive | Other Inst'l | Motors | New | motor | 16,280 | 55% | 2.7 | 15 | \$2,843 | 86% | 2.3 |
| FE-WPP | VFD on Chilled Water Pump | Motor w/out VFD Drive | Other Inst'l | Motors | ROB | motor | 16,280 | 55% | 2.7 | 15 | \$2,843 | 86% | 2.3 |
| FE-WPP | VFD on Condenser Water Pump | Motor w/out VFD Drive | Other Inst'l | Motors | Early | motor | 18,641 | 32% | 3.2 | 15 | \$2,903 | 86% | 1.9 |
| FE-WPP | VFD on Condenser Water Pump | Motor w/out VFD Drive | Other Inst'l | Motors | New | motor | 18,292 | 33% | 3.1 | 15 | \$2,843 | 86% | 1.9 |
| FE-WPP | VFD on Condenser Water Pump | Motor w/out VFD Drive | Other Inst'l | Motors | ROB | motor | 18,292 | 33% | 3.1 | 15 | \$2,843 | 86% | 1.9 |
| FE-WPP | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Other Inst'l | Motors | Early | motor | 27,718 | 56% | 0.00 | 15 | \$2,903 | 86% | 2.5 |
| FE-WPP | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Other Inst'l | Motors | New | motor | 27,199 | 57% | 0.00 | 15 | \$2,843 | 86% | 2.6 |
| FE-WPP | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Other Inst'l | Motors | ROB | motor | 27,199 | 57% | 0.00 | 15 | \$2,843 | 86% | 2.6 |
| FE-WPP | VFD on HVAC Fan | Motor w/out VFD | Other Inst'l | Motors | Early | motor | 18,724 | 70% | 3.4 | 15 | \$2,903 | 86% | 3.2 |
| FE-WPP | VFD on HVAC Fan | Motor w/out VFD | Other Inst'l | Motors | New | motor | 18,373 | 72% | 3.3 | 15 | \$2,843 | 86% | 3.3 |
| FE-WPP | VFD on HVAC Fan | Motor w/out VFD | Other Inst'l | Motors | ROB | motor | 18,373 | 72% | 3.3 | 15 | \$2,843 | 86% | 3.3 |
| FE-WPP | Variable Speed Drives on Process Equipment | Constant speed control | Other Inst'l | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 10.1 |
| FE-WPP | Variable Speed Drives on Process Equipment | Constant speed control | Other Inst'l | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 10.1 |
| FE-WPP | Auto Off Time Switch | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | Existing | building | 3,333 | 24% | 0.2 | 8 | \$1,034 | 13% | 0.4 |
| FE-WPP | Auto Off Time Switch | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | New | building | 3,333 | 7.0% | 0.07 | 8 | \$1,034 | 0% | 0.1 |
| FE-WPP | Central Lighting Control System | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | Existing | building | 3,333 | 38% | 0.4 | 8 | \$1,034 | 13% | 0.6 |
| FE-WPP | Central Lighting Control System | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | New | building | 3,333 | 14% | 0.1 | 8 | \$1,034 | 13% | 0.2 |
| FE-WPP | Cold Cathode Screw-In Bulb | 40W Incandescent Bulb | Other Inst'l | Other Int. Lighting | Early | lamp | 87 | 87% | 0.01 | 15 | \$30 | 14% | 1.6 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | Early | lamp | 62 | 81% | 0.01 | 15 | \$30 | 11% | 1.1 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | New | lamp | 47 | 81% | 0.01 | 15 | \$21 | 14% | 1.2 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | New | lamp | 47 | 81% | 0.01 | 15 | \$23 | 14% | 1.1 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | ROB | lamp | 62 | 81% | 0.01 | 15 | \$21 | 14% | 1.5 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | ROB | lamp | 62 | 81% | 0.01 | 15 | \$23 | 14% | 1.4 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | ROB | lamp | 62 | 81% | 0.01 | 15 | \$22 | 11% | 1.5 |
| FE-WPP | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Other Inst'l | Other Int. Lighting | Early | lamp | 87 | 75% | 0.01 | 7 | \$73 | 24% | 0.3 |
| FE-WPP | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Other Inst'l | Other Int. Lighting | New | fixture | 95 | 65% | 0.01 | 13 | \$29 | 28% | 1.2 |
| FE-WPP | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | New | lamp | 47 | 65% | 0.01 | 7 | \$29 | 28% | 0.4 |
| FE-WPP | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Other Inst'l | Other Int. Lighting | ROB | fixture | 125 | 65% | 0.01 | 13 | \$29 | 24% | 1.6 |
| FE-WPP | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | ROB | lamp | 62 | 65% | 0.01 | 7 | \$29 | 24% | 0.5 |
| FE-WPP | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Other Inst'l | Other Int. Lighting | Early | lamp | 87 | 75% | 0.01 | 7 | \$3.2 | 24% | 7.3 |
| FE-WPP | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | New | lamp | 47 | 65% | 0.01 | 7 | \$1.8 | 24% | 6.2 |
| FE-WPP | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | ROB | lamp | 62 | 65% | 0.01 | 7 | \$1.8 | 24% | 8.1 |
| FE-WPP | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | ROB | lamp | 62 | 65% | 0.01 | 7 | \$1.8 | 24% | 8.1 |
| FE-WPP | Exit Sign Retrofit: CFL replacing Incandescent | One 23W Single Sided Incandescent Exit Sign | Other Inst'l | Other Int. Lighting | Early | exit sign | 139 | 42% | 0.01 | 15 | \$48 | 22% | 0.7 |
| FE-WPP | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Other Inst'l | Other Int. Lighting | New | building | 3,333 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.0 |
| FE-WPP | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Other Inst'l | Other Int. Lighting | New | building | 3,333 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |
| FE-WPP | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Other Inst'l | Other Int. Lighting | New | building | 3,333 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| FE-WPP | Indoor Daylight Sensors | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | Existing | building | 3,333 | 28% | 0.3 | 8 | \$5,088 | 13% | 0.1 |
| FE-WPP | Indoor Daylight Sensors | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | New | building | 3,333 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|--|---|--------------|---------------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | LED Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Other Inst'l | Other Int. Lighting | Early | sign | 153 | 87% | 0.02 | 15 | \$48 | 16% | 1.7 |
| FE-WPP | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Other Inst'l | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 1.8 |
| FE-WPP | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Other Inst'l | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 1.8 |
| FE-WPP | LED Task Lighting/Screw-In | 1 15W CFL bulb | Other Inst'l | Other Int. Lighting | Early | lamp | 22 | 33% | 0.00 | 15 | \$9.6 | 24% | 0.5 |
| FE-WPP | LED Task Lighting/Screw-In | 1 60W Incandescent Bulb | Other Inst'l | Other Int. Lighting | Early | lamp | 89 | 83% | 0.01 | 15 | \$9.6 | 24% | 5.0 |
| FE-WPP | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Other Inst'l | Other Int. Lighting | New | lamp | 49 | 77% | 0.01 | 15 | \$7.9 | 24% | 3.0 |
| FE-WPP | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Other Inst'l | Other Int. Lighting | New | lamp | 49 | 77% | 0.01 | 15 | \$7.9 | 24% | 3.0 |
| FE-WPP | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Other Inst'l | Other Int. Lighting | ROB | lamp | 64 | 77% | 0.01 | 15 | \$7.9 | 24% | 4.0 |
| FE-WPP | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Other Inst'l | Other Int. Lighting | ROB | lamp | 64 | 77% | 0.01 | 15 | \$7.9 | 24% | 4.0 |
| FE-WPP | Occupancy Sensor | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | Existing | building | 3,333 | 24% | 0.2 | 8 | \$1,558 | 11% | 0.2 |
| FE-WPP | Occupancy Sensor | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | New | building | 3,333 | 7.0% | 0.07 | 8 | \$1,558 | 0% | 0.1 |
| FE-WPP | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | Existing | building | 3,333 | 28% | 0.3 | 8 | \$5,088 | 11% | 0.1 |
| FE-WPP | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | New | building | 3,333 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| FE-WPP | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Other Inst'l | Other Int. Lighting | Early | exit sign | 139 | 100% | 0.02 | 15 | \$173 | 26% | 0.5 |
| FE-WPP | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Other Inst'l | Other Int. Lighting | New | exit sign | 80 | 100% | 0.01 | 15 | \$148 | 31% | 0.3 |
| FE-WPP | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Other Inst'l | Other Int. Lighting | ROB | exit sign | 80 | 100% | 0.01 | 15 | \$148 | 26% | 0.3 |
| FE-WPP | Time Clock Control | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | Existing | building | 3,333 | 28% | 0.3 | 8 | \$1,034 | 13% | 0.4 |
| FE-WPP | Time Clock Control | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | New | building | 3,333 | 4.1% | 0.04 | 8 | \$1,034 | 0% | 0.1 |
| FE-WPP | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Other Inst'l | Plug Load | Existing | building | 681 | 46% | 0.5 | 5 | \$189 | 4% | 1.2 |
| FE-WPP | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Other Inst'l | Plug Load | New | building | 681 | 46% | 0.5 | 5 | \$189 | 4% | 1.2 |
| FE-WPP | Data Center - Server/Storage Consolidation | No Consolidation | Other Inst'l | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-WPP | Data Center - Server/Storage Consolidation | No Consolidation | Other Inst'l | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-WPP | Data Center - Server/Storage Virtualization | No Virtualization | Other Inst'l | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-WPP | Data Center - Server/Storage Virtualization | No Virtualization | Other Inst'l | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-WPP | Energy Star - Scanners | Std Scanner | Other Inst'l | Plug Load | New | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| FE-WPP | Energy Star - Scanners | Std Scanner | Other Inst'l | Plug Load | ROB | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| FE-WPP | Energy Star Dishwasher | Existing Dishwasher units | Other Inst'l | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,580 | 1% | 1.0 |
| FE-WPP | Energy Star Dishwasher | Standard Dishwasher unit | Other Inst'l | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 1% | 3.1 |
| FE-WPP | Energy Star Dishwasher | Standard Dishwasher unit | Other Inst'l | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 1% | 3.1 |
| FE-WPP | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Other Inst'l | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 17% | 0.2 |
| FE-WPP | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Other Inst'l | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 1.9 |
| FE-WPP | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Other Inst'l | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 1.9 |
| FE-WPP | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Other Inst'l | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 9% | 0.8 |
| FE-WPP | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Other Inst'l | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.6 |
| FE-WPP | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Other Inst'l | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.6 |
| FE-WPP | ENERGY STAR® Copiers | 10% Less Efficient Copier | Other Inst'l | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 18% | 0.0 |
| FE-WPP | ENERGY STAR® Copiers | One Conventional Copier | Other Inst'l | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| FE-WPP | ENERGY STAR® Copiers | One Conventional Copier | Other Inst'l | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| FE-WPP | ENERGY STAR® desktop | Standard computer | Other Inst'l | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 69% | 0.1 |
| FE-WPP | ENERGY STAR® desktop | Standard computer | Other Inst'l | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.3 |
| FE-WPP | ENERGY STAR® desktop | Standard computer | Other Inst'l | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.3 |
| FE-WPP | ENERGY STAR® Fax | 10% Less Efficient Fax | Other Inst'l | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 15% | 0.0 |
| FE-WPP | ENERGY STAR® Fax | One Conventional Fax | Other Inst'l | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| FE-WPP | ENERGY STAR® Fax | One Conventional Fax | Other Inst'l | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| FE-WPP | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Other Inst'l | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 70% | 0.0 |
| FE-WPP | ENERGY STAR® Monitors | One Conventional Monitor | Other Inst'l | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| FE-WPP | ENERGY STAR® Monitors | One Conventional Monitor | Other Inst'l | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| FE-WPP | ENERGY STAR® Printers | 10% Less Efficient Printer | Other Inst'l | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 44% | 0.0 |
| FE-WPP | ENERGY STAR® Printers | One Conventional Printer | Other Inst'l | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| FE-WPP | ENERGY STAR® Printers | One Conventional Printer | Other Inst'l | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| FE-WPP | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Other Inst'l | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 43% | 0.1 |
| FE-WPP | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Other Inst'l | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.7 |
| FE-WPP | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Other Inst'l | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.7 |
| FE-WPP | ENERGY STAR® Televisions | 10% Less Efficient Television | Other Inst'l | Plug Load | Early | Unit | 111 | 38% | 0.01 | 6 | \$672 | 40% | 0.0 |
| FE-WPP | ENERGY STAR® Televisions | One Conventional Television | Other Inst'l | Plug Load | New | Unit | 101 | 32% | 0.01 | 6 | \$206 | 40% | 0.0 |
| FE-WPP | ENERGY STAR® Televisions | One Conventional Television | Other Inst'l | Plug Load | ROB | Unit | 101 | 32% | 0.01 | 6 | \$206 | 40% | 0.0 |
| FE-WPP | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Other Inst'l | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 24% | 0.3 |
| FE-WPP | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Other Inst'l | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.6 |
| FE-WPP | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Other Inst'l | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.6 |
| FE-WPP | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Other Inst'l | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.2 |
| FE-WPP | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Other Inst'l | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.2 |
| FE-WPP | Network PC Power Management | No PC Power Management | Other Inst'l | Plug Load | Existing | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 9.7 |
| FE-WPP | Network PC Power Management | No PC Power Management | Other Inst'l | Plug Load | New | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 9.7 |
| FE-WPP | Smart Strip Plug Outlets | Standard plug strip/outlet | Other Inst'l | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.3 |
| FE-WPP | Smart Strip Plug Outlets | Standard plug strip/outlet | Other Inst'l | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.3 |
| FE-WPP | Smart Strip Plug Outlets | Standard plug strip/outlet | Other Inst'l | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-WPP | Smart Strip Plug Outlets | Standard plug strip/outlet | Other Inst'l | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-WPP | Smart Strip Plug Outlets | Standard plug strip/outlet | Other Inst'l | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|--|--------------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Smart Strip Plug Outlets | Standard plug strip/outlet | Other Inst'l | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-WPP | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Other Inst'l | Plug Load | Existing | building | 681 | 46% | 0.5 | 5 | \$180 | 3% | 1.3 |
| FE-WPP | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Other Inst'l | Plug Load | New | building | 681 | 46% | 0.5 | 5 | \$180 | 3% | 1.3 |
| FE-WPP | Auto Closer on Refrigerator Door | Door w/out Autocloser | Other Inst'l | Refrigeration | Existing | building | 2,552 | 53% | 0.5 | 8 | \$747 | 40% | 0.9 |
| FE-WPP | Auto Closer on Refrigerator Door | Door w/out Autocloser | Other Inst'l | Refrigeration | Existing | building | 2,399 | 31% | 0.3 | 8 | \$763 | 40% | 0.5 |
| FE-WPP | Auto Closer on Refrigerator Door | Door w/out Autocloser | Other Inst'l | Refrigeration | New | building | 2,552 | 53% | 0.5 | 8 | \$747 | 40% | 0.9 |
| FE-WPP | Auto Closer on Refrigerator Door | Door w/out Autocloser | Other Inst'l | Refrigeration | New | building | 2,399 | 31% | 0.3 | 8 | \$763 | 40% | 0.5 |
| FE-WPP | Door Gasket- Freezer | Door w/out Gasket | Other Inst'l | Refrigeration | Existing | building | 2,552 | 29% | 0.3 | 4 | \$77 | 29% | 2.7 |
| FE-WPP | Door Gasket- Freezer | Door w/out Gasket | Other Inst'l | Refrigeration | New | building | 2,552 | 32% | 0.3 | 4 | \$77 | 29% | 3.0 |
| FE-WPP | Door Gasket- Refrigerator | Door w/out Gasket | Other Inst'l | Refrigeration | Existing | building | 2,399 | 9.5% | 0.10 | 4 | \$105 | 45% | 0.6 |
| FE-WPP | Door Gasket- Refrigerator | Door w/out Gasket | Other Inst'l | Refrigeration | New | building | 2,399 | 9.5% | 0.10 | 4 | \$105 | 45% | 0.6 |
| FE-WPP | eCube | Refrigeration unit w/out eCube | Other Inst'l | Refrigeration | Existing | building | 2,399 | 15% | 0.2 | 15 | \$700 | 57% | 0.4 |
| FE-WPP | eCube | Refrigeration unit w/out eCube | Other Inst'l | Refrigeration | New | building | 2,399 | 15% | 0.2 | 15 | \$700 | 57% | 0.4 |
| FE-WPP | Efficient compressor motor | Base Refrigeration System - Grocery | Other Inst'l | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| FE-WPP | Efficient compressor motor | Base Refrigeration System - Grocery | Other Inst'l | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| FE-WPP | Efficient compressor motor | Base Refrigeration System - Grocery | Other Inst'l | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| FE-WPP | Efficient compressor motor | Base Refrigeration System - Grocery | Other Inst'l | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| FE-WPP | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Other Inst'l | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.5 |
| FE-WPP | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Other Inst'l | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| FE-WPP | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Other Inst'l | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| FE-WPP | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Other Inst'l | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.3 |
| FE-WPP | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Other Inst'l | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.7 |
| FE-WPP | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Other Inst'l | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.7 |
| FE-WPP | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Other Inst'l | Refrigeration | Existing | building | 2,399 | 3.4% | 0.03 | 10 | \$369 | 77% | 0.1 |
| FE-WPP | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Other Inst'l | Refrigeration | New | building | 2,399 | 3.4% | 0.03 | 10 | \$369 | 77% | 0.1 |
| FE-WPP | Floating head pressure controller | System w/out FHPC | Other Inst'l | Refrigeration | Existing | building | 2,552 | 9.0% | 0.05 | 15 | \$8,682 | 41% | 0.0 |
| FE-WPP | Floating head pressure controller | System w/out FHPC | Other Inst'l | Refrigeration | Existing | building | 2,399 | 3.4% | 0.02 | 15 | \$8,682 | 41% | 0.0 |
| FE-WPP | Floating head pressure controller | System w/out FHPC | Other Inst'l | Refrigeration | New | building | 2,552 | 9.0% | 0.05 | 15 | \$8,682 | 41% | 0.0 |
| FE-WPP | Floating head pressure controller | System w/out FHPC | Other Inst'l | Refrigeration | New | building | 2,399 | 3.4% | 0.02 | 15 | \$8,682 | 41% | 0.0 |
| FE-WPP | High Efficiency Commercial Freezer | Std. Commercial Freezer | Other Inst'l | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 86% | 0.3 |
| FE-WPP | High Efficiency Commercial Freezer | Std. Commercial Freezer | Other Inst'l | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 3.6 |
| FE-WPP | High Efficiency Commercial Freezer | Std. Commercial Freezer | Other Inst'l | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 3.6 |
| FE-WPP | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Other Inst'l | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 2% | 0.1 |
| FE-WPP | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Other Inst'l | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.8 |
| FE-WPP | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Other Inst'l | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.8 |
| FE-WPP | High Efficiency Ice Maker | Existing Standard Efficiency Ice Maker in Pennsylvania | Other Inst'l | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 73% | 0.1 |
| FE-WPP | High Efficiency Ice Maker | Standard code minimum Ice Maker | Other Inst'l | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| FE-WPP | High Efficiency Ice Maker | Standard code minimum Ice Maker | Other Inst'l | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| FE-WPP | High Efficiency Ice Making Head | Standard Ice Making Head | Other Inst'l | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.5 |
| FE-WPP | High Efficiency Ice Making Head | Standard Ice Making Head | Other Inst'l | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.6 |
| FE-WPP | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Other Inst'l | Refrigeration | Early | Fixture | 373 | 56% | 0.01 | 8 | \$448 | 47% | 0.1 |
| FE-WPP | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Other Inst'l | Refrigeration | New | Fixture | 291 | 44% | 0.00 | 8 | \$139 | 47% | 0.3 |
| FE-WPP | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Other Inst'l | Refrigeration | ROB | Fixture | 291 | 44% | 0.00 | 8 | \$139 | 47% | 0.3 |
| FE-WPP | Quick acting freezer doors | Std. Freezer Doors | Other Inst'l | Refrigeration | Existing | building | 2,552 | 13% | 0.1 | 10 | \$405 | 56% | 0.5 |
| FE-WPP | Quick acting freezer doors | Std. Freezer Doors | Other Inst'l | Refrigeration | New | building | 2,552 | 13% | 0.1 | 10 | \$405 | 56% | 0.5 |
| FE-WPP | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Other Inst'l | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 30% | 0.4 |
| FE-WPP | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Other Inst'l | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.4 |
| FE-WPP | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Other Inst'l | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.5 |
| FE-WPP | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 30% | 1.5 |
| FE-WPP | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 2.6 |
| FE-WPP | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 2.6 |
| FE-WPP | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 30% | 1.5 |
| FE-WPP | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 3.5 |
| FE-WPP | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 3.5 |
| FE-WPP | Refrigeration Commissioning | Non-commissioned refrigeration system | Other Inst'l | Refrigeration | Existing | building | 5,105 | 9.5% | 0.10 | 3 | \$1,204 | 85% | 0.1 |
| FE-WPP | Refrigeration Commissioning | Non-commissioned refrigeration system | Other Inst'l | Refrigeration | New | building | 5,105 | 9.5% | 0.10 | 3 | \$1,204 | 85% | 0.1 |
| FE-WPP | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Other Inst'l | Refrigeration | Existing | building | 2,552 | 59% | 0.6 | 4 | \$80 | 22% | 5.3 |
| FE-WPP | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Other Inst'l | Refrigeration | Existing | building | 2,399 | 12% | 0.1 | 4 | \$117 | 22% | 0.7 |
| FE-WPP | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Other Inst'l | Refrigeration | New | building | 2,552 | 59% | 0.6 | 4 | \$80 | 22% | 5.3 |
| FE-WPP | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Other Inst'l | Refrigeration | New | building | 2,399 | 12% | 0.1 | 4 | \$117 | 22% | 0.7 |
| FE-WPP | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Other Inst'l | Refrigeration | Existing | building | 2,552 | 12% | 0.1 | 11 | \$119 | 79% | 1.6 |
| FE-WPP | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Other Inst'l | Refrigeration | New | building | 2,552 | 12% | 0.1 | 11 | \$119 | 79% | 1.6 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|--|--------------|-----------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Other Inst'l | Refrigeration | Existing | building | 2,399 | 8.9% | 0.09 | 11 | \$119 | 79% | 1.2 |
| FE-WPP | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Other Inst'l | Refrigeration | New | building | 2,399 | 8.9% | 0.09 | 11 | \$119 | 79% | 1.2 |
| FE-WPP | VSD Controlled Compressor | Compressor w/out VSD | Other Inst'l | Refrigeration | Early | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |
| FE-WPP | VSD Controlled Compressor | Compressor w/out VSD | Other Inst'l | Refrigeration | New | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |
| FE-WPP | VSD Controlled Compressor | Compressor w/out VSD | Other Inst'l | Refrigeration | ROB | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |
| FE-WPP | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Other Inst'l | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$269 | 35% | 0.8 |
| FE-WPP | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Other Inst'l | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$269 | 35% | 0.8 |
| FE-WPP | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Other Inst'l | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 2.8 |
| FE-WPP | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Other Inst'l | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 2.7 |
| FE-WPP | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Other Inst'l | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 2.8 |
| FE-WPP | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Other Inst'l | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 2.7 |
| FE-WPP | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 35% | 2.1 |
| FE-WPP | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 35% | 2.0 |
| FE-WPP | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 4.6 |
| FE-WPP | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.3 |
| FE-WPP | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 4.6 |
| FE-WPP | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.3 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Other Inst'l | Space Heating | Existing | building | 4,569 | 7.1% | 0.07 | 6 | \$12,489 | 82% | 0.0 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Other Inst'l | Space Heating | New | building | 4,569 | 7.1% | 0.07 | 6 | \$12,489 | 82% | 0.0 |
| FE-WPP | Adding window shade film | No shade film | Other Inst'l | Space Heating | Existing | building | 4,569 | 1.3% | 0.4 | 10 | \$56 | 13% | 4.7 |
| FE-WPP | Adding window shade film | No shade film | Other Inst'l | Space Heating | New | building | 4,569 | 1.3% | 0.4 | 10 | \$56 | 13% | 4.7 |
| FE-WPP | Adding window shade screen | No shade screen | Other Inst'l | Space Heating | Existing | building | 4,569 | 1.1% | 0.01 | 10 | \$22 | 13% | 1.1 |
| FE-WPP | Adding window shade screen | No shade screen | Other Inst'l | Space Heating | New | building | 4,569 | 1.1% | 0.01 | 10 | \$22 | 13% | 1.1 |
| FE-WPP | Automated control system | Manual Controls | Other Inst'l | Space Heating | Existing | building | 4,569 | 17% | 0.2 | 15 | \$5,002 | 51% | 0.1 |
| FE-WPP | Automated control system | Manual Controls | Other Inst'l | Space Heating | New | building | 4,569 | 17% | 0.2 | 15 | \$5,002 | 94% | 0.1 |
| FE-WPP | Ceiling Insulations (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Other Inst'l | Space Heating | Existing | building | 4,569 | 7.2% | 0.07 | 15 | \$17,130 | 71% | 0.0 |
| FE-WPP | Ceiling Insulations (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Other Inst'l | Space Heating | New | building | 4,569 | 2.4% | 0.02 | 15 | \$16,283 | 94% | 0.0 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Other Inst'l | Space Heating | Existing | building | 4,569 | 1.4% | 0.04 | 15 | \$36 | 20% | 1.8 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Other Inst'l | Space Heating | New | building | 4,569 | 1.4% | 0.04 | 15 | \$36 | 10% | 1.8 |
| FE-WPP | Efficient Unit Heating System | Existing Unit Heaters in PA | Other Inst'l | Space Heating | Early | heater | 30,613 | 23% | 0.05 | 15 | \$3,289 | 83% | 1.0 |
| FE-WPP | Efficient Unit Heating System | Std. Unit Heater | Other Inst'l | Space Heating | New | heater | 27,169 | 13% | 0.03 | 15 | \$1,991 | 83% | 0.8 |
| FE-WPP | Efficient Unit Heating System | Std. Unit Heater | Other Inst'l | Space Heating | ROB | heater | 27,169 | 13% | 0.03 | 15 | \$1,991 | 83% | 0.8 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Other Inst'l | Space Heating | Existing | building | 4,569 | 7.1% | 0.07 | 15 | \$20,269 | 25% | 0.0 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Other Inst'l | Space Heating | New | building | 4,569 | 7.1% | 0.07 | 15 | \$20,269 | 35% | 0.0 |
| FE-WPP | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Other Inst'l | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 0.9 |
| FE-WPP | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Other Inst'l | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 0.9 |
| FE-WPP | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Other Inst'l | Space Heating | Existing | building | 4,569 | 1.1% | 0.01 | 10 | \$7,735 | 81% | 0.0 |
| FE-WPP | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Other Inst'l | Space Heating | New | building | 4,569 | 1.1% | 0.01 | 10 | \$7,735 | 81% | 0.0 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Other Inst'l | Space Heating | Existing | building | 4,569 | 3.6% | 0.04 | 11 | \$286 | 49% | 0.3 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Other Inst'l | Space Heating | New | building | 4,569 | 3.1% | 0.03 | 11 | \$146 | 49% | 0.5 |
| FE-WPP | Re-Commissioning (Existing Construction) | No Re-Commissioning | Other Inst'l | Space Heating | Existing | building | 4,569 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |
| FE-WPP | VFD on Cooling Tower Fan | Motor w/out VFD | Other Inst'l | Space Heating | Early | motor | 18,724 | 70% | 3.4 | 15 | \$2,843 | 88% | 3.2 |
| FE-WPP | VFD on Cooling Tower Fan | Motor w/out VFD | Other Inst'l | Space Heating | New | motor | 18,373 | 72% | 3.3 | 15 | \$2,843 | 88% | 3.1 |
| FE-WPP | VFD on Cooling Tower Fan | Motor w/out VFD | Other Inst'l | Space Heating | ROB | motor | 18,373 | 72% | 3.3 | 15 | \$2,843 | 88% | 3.1 |
| FE-WPP | Wall Insulations (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Other Inst'l | Space Heating | Existing | building | 4,569 | 13% | 0.1 | 15 | \$3,285 | 26% | 0.1 |
| FE-WPP | Wall Insulations (Going upto R 21) | Code minimum Wall Insulations | Other Inst'l | Space Heating | New | building | 4,569 | 0.3% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| FE-WPP | Green LED Traffic Light | Green Incandescent Traffic Light | Other Inst'l | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 0% | 1.1 |
| FE-WPP | Green LED Traffic Light | Green Incandescent Traffic Light | Other Inst'l | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| FE-WPP | Green LED Traffic Light | Green Incandescent Traffic Light | Other Inst'l | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| FE-WPP | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Other Inst'l | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 0% | 2.8 |
| FE-WPP | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Other Inst'l | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-WPP | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Other Inst'l | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-WPP | Induction Street Lighting | One 100W HPS Street Light Fixture | Other Inst'l | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 0% | 0.3 |
| FE-WPP | Induction Street Lighting | One 100W HPS Street Light Fixture | Other Inst'l | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.6 |
| FE-WPP | Induction Street Lighting | One 100W HPS Street Light Fixture | Other Inst'l | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.6 |
| FE-WPP | LED Street Lighting | One 100W HPS Street Light | Other Inst'l | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 0% | 0.2 |
| FE-WPP | LED Street Lighting | One 100W HPS Street Light | Other Inst'l | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-WPP | LED Street Lighting | One 100W HPS Street Light | Other Inst'l | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-WPP | Red LED Traffic Light | One Red Incandescent Traffic Light | Other Inst'l | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 0% | 1.5 |
| FE-WPP | Red LED Traffic Light | One Red Incandescent Traffic Light | Other Inst'l | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| FE-WPP | Red LED Traffic Light | One Red Incandescent Traffic Light | Other Inst'l | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| FE-WPP | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Other Inst'l | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 0% | 0.1 |
| FE-WPP | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Other Inst'l | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-WPP | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Other Inst'l | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-WPP | Demand controlled Circulating Systems | Constant circulation system | Other Inst'l | Water Heating | Existing | building | 4,275 | 20% | 0.2 | 15 | \$776 | 59% | 0.8 |
| FE-WPP | Demand controlled Circulating Systems | Constant circulation system | Other Inst'l | Water Heating | New | building | 4,275 | 20% | 0.2 | 15 | \$776 | 59% | 0.8 |
| FE-WPP | Drainwater Heat Recovery Water Heater | No heat recovery | Other Inst'l | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.7 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|--|---|--------------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Drainwater Heat Recovery Water Heater | No heat recovery | Other Inst'l | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.7 |
| FE-WPP | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Other Inst'l | Water Heating | Existing | building | 4,275 | 5.9% | 0.06 | 12 | \$42 | 85% | 3.5 |
| FE-WPP | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Other Inst'l | Water Heating | New | building | 4,275 | 5.9% | 0.06 | 12 | \$12 | 85% | 12.1 |
| FE-WPP | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Other Inst'l | Water Heating | Early | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 2.8 |
| FE-WPP | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Other Inst'l | Water Heating | Early | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 2.8 |
| FE-WPP | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Other Inst'l | Water Heating | New | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 2.8 |
| FE-WPP | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Other Inst'l | Water Heating | New | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 2.8 |
| FE-WPP | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Other Inst'l | Water Heating | ROB | water heater | 10,350 | 65% | 1.2 | 10 | \$1,187 | 68% | 2.6 |
| FE-WPP | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Other Inst'l | Water Heating | ROB | water heater | 10,350 | 65% | 1.2 | 10 | \$1,187 | 68% | 2.6 |
| FE-WPP | Heat Recovery Unit | Base Water Heating | Other Inst'l | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.5 |
| FE-WPP | Heat Recovery Unit | Base Water Heating | Other Inst'l | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.5 |
| FE-WPP | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Other Inst'l | Water Heating | Early | water heater | 10,645 | 5.9% | 0.1 | 15 | \$307 | 79% | 1.3 |
| FE-WPP | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Other Inst'l | Water Heating | Early | water heater | 10,645 | 5.9% | 0.1 | 15 | \$307 | 79% | 1.3 |
| FE-WPP | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Other Inst'l | Water Heating | New | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.7 |
| FE-WPP | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Other Inst'l | Water Heating | New | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.7 |
| FE-WPP | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Other Inst'l | Water Heating | ROB | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.7 |
| FE-WPP | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Other Inst'l | Water Heating | ROB | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.7 |
| FE-WPP | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Other Inst'l | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$466 | 81% | 36.2 |
| FE-WPP | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Other Inst'l | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 18.9 |
| FE-WPP | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Other Inst'l | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 18.8 |
| FE-WPP | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Other Inst'l | Water Heating | Existing | building | 4,275 | 0.8% | 0.01 | 13 | \$4.9 | 68% | 4.3 |
| FE-WPP | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Other Inst'l | Water Heating | New | building | 4,275 | 0.8% | 0.01 | 13 | \$4.9 | 0% | 4.3 |
| FE-WPP | Hot Water Circulation Pump Time-Clock | Constant circulation system | Other Inst'l | Water Heating | Existing | building | 4,275 | 5.3% | 0.05 | 10 | \$17 | 72% | 6.6 |
| FE-WPP | Hot Water Circulation Pump Time-Clock | Constant circulation system | Other Inst'l | Water Heating | New | building | 4,275 | 5.3% | 0.05 | 10 | \$17 | 72% | 6.6 |
| FE-WPP | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Other Inst'l | Water Heating | Existing | building | 4,275 | 0.9% | 0.01 | 7 | \$22 | 78% | 0.7 |
| FE-WPP | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Other Inst'l | Water Heating | New | building | 4,275 | 0.8% | 0.01 | 7 | \$0.5 | 78% | 26.3 |
| FE-WPP | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Other Inst'l | Water Heating | Existing | building | 4,275 | 4.5% | 0.05 | 5 | \$300 | 0% | 0.2 |
| FE-WPP | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Other Inst'l | Water Heating | New | building | 4,275 | 3.0% | 0.03 | 5 | \$194 | 0% | 0.2 |
| FE-WPP | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Other Inst'l | Water Heating | Existing | building | 4,275 | 6.5% | 0.07 | 9 | \$25 | 2% | 5.2 |
| FE-WPP | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Other Inst'l | Water Heating | New | building | 4,275 | 6.5% | 0.07 | 9 | \$6.0 | 2% | 21.6 |
| FE-WPP | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Other Inst'l | Water Heating | Early | water heater | 10,645 | 52% | 0.4 | 15 | \$6,222 | 32% | 0.5 |
| FE-WPP | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Other Inst'l | Water Heating | New | water heater | 10,350 | 51% | 0.4 | 15 | \$6,222 | 32% | 0.5 |
| FE-WPP | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Other Inst'l | Water Heating | ROB | water heater | 10,350 | 51% | 0.4 | 15 | \$6,222 | 32% | 0.5 |
| FE-WPP | Ultrasonic Faucet Control | Manual Faucet Control | Other Inst'l | Water Heating | Existing | building | 4,275 | 3.0% | 0.03 | 10 | \$739 | 77% | 0.1 |
| FE-WPP | Ultrasonic Faucet Control | Manual Faucet Control | Other Inst'l | Water Heating | New | building | 4,275 | 3.0% | 0.03 | 10 | \$739 | 77% | 0.1 |
| FE-WPP | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Other Inst'l | Water Heating | Existing | building | 4,275 | 2.2% | 0.02 | 4 | \$28 | 83% | 0.8 |
| FE-WPP | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Other Inst'l | Water Heating | New | building | 4,275 | 2.3% | 0.02 | 4 | \$28 | 83% | 0.9 |
| FE-WPP | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Restaurant | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 57% | 1.0 |
| FE-WPP | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Restaurant | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 57% | 1.0 |
| FE-WPP | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Restaurant | Cooking | Early | steamer | 51 | 46% | 0.00 | 12 | \$5,053 | 81% | 0.0 |
| FE-WPP | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Restaurant | Cooking | New | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-WPP | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Restaurant | Cooking | ROB | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-WPP | Electric combination oven (Energy Star) | Standard Oven | Restaurant | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 73% | 2.8 |
| FE-WPP | Electric combination oven (Energy Star) | Standard Oven | Restaurant | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 73% | 2.8 |
| FE-WPP | Electric Convection Oven | Conventional convection oven w/ 65% efficiency | Restaurant | Cooking | Early | oven | 8,641 | 37% | 0.6 | 12 | \$4,119 | 81% | 0.4 |
| FE-WPP | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Restaurant | Cooking | New | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.7 |
| FE-WPP | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Restaurant | Cooking | ROB | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.7 |
| FE-WPP | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Restaurant | Cooking | Early | fryer | 6,105 | 23% | 0.3 | 12 | \$9,241 | 86% | 0.1 |
| FE-WPP | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Restaurant | Cooking | New | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| FE-WPP | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Restaurant | Cooking | ROB | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| FE-WPP | High Efficiency Griddle (ENERGY STAR) | Efficiency code minimum griddle (70% eff) | Restaurant | Cooking | Early | griddle | 11,317 | 65% | 1.4 | 12 | \$4,977 | 86% | 0.8 |
| FE-WPP | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Restaurant | Cooking | New | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.1 |
| FE-WPP | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Restaurant | Cooking | ROB | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.1 |
| FE-WPP | High Efficiency Induction Cooking | Standard Cooking | Restaurant | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 76% | 0.1 |
| FE-WPP | High Efficiency Induction Cooking | Standard Cooking | Restaurant | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 76% | 0.1 |
| FE-WPP | Solid-state temperature controls | No Solid State Controls | Restaurant | Cooking | Existing | building | 36,032 | 3.6% | 0.04 | 12 | \$162 | 32% | 3.3 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Restaurant | Cooling Central | Existing | building | 2,765 | 7.0% | 0.07 | 6 | \$19,530 | 82% | 0.0 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Restaurant | Cooling Central | New | building | 2,765 | 7.0% | 0.07 | 6 | \$19,530 | 82% | 0.0 |
| FE-WPP | Adding window shade film | No shade film | Restaurant | Cooling Central | Existing | building | 2,765 | 1.3% | 0.4 | 10 | \$34 | 12% | 7.6 |
| FE-WPP | Adding window shade film | No shade film | Restaurant | Cooling Central | New | building | 2,765 | 1.3% | 0.4 | 10 | \$34 | 13% | 7.6 |
| FE-WPP | Adding window shade screen | No shade screen | Restaurant | Cooling Central | Existing | building | 2,765 | 1.0% | 0.01 | 10 | \$13 | 13% | 1.3 |
| FE-WPP | Adding window shade screen | No shade screen | Restaurant | Cooling Central | New | building | 2,765 | 1.1% | 0.01 | 10 | \$13 | 13% | 1.3 |
| FE-WPP | Automated control system | Manual Controls | Restaurant | Cooling Central | Existing | building | 2,765 | 17% | 0.2 | 15 | \$3,027 | 51% | 0.1 |
| FE-WPP | Automated control system | Manual Controls | Restaurant | Cooling Central | New | building | 2,765 | 17% | 0.2 | 15 | \$3,027 | 94% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|--|---|------------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Restaurant | Cooling Central | Existing | building | 2,765 | 8.9% | 0.09 | 15 | \$26,661 | 71% | 0.0 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Restaurant | Cooling Central | New | building | 2,765 | 3.0% | 0.03 | 15 | \$25,342 | 94% | 0.0 |
| FE-WPP | Chiller Tuneup/Diagnostics | No tuneup | Restaurant | Cooling Central | Existing | building | 2,765 | 8.0% | 0.08 | 10 | \$7,060 | 59% | 0.0 |
| FE-WPP | Chiller Tuneup/Diagnostics | No tuneup | Restaurant | Cooling Central | New | building | 2,765 | 8.0% | 0.08 | 10 | \$7,060 | 59% | 0.0 |
| FE-WPP | Commercial energy recovery ventilation systems | No Commercial Recovery System | Restaurant | Cooling Central | Existing | building | 2,765 | 16% | 0.2 | 14 | \$2,498 | 71% | 0.1 |
| FE-WPP | Cooling Tower Optimization | No Cooling Tower Optimization | Restaurant | Cooling Central | Existing | building | 2,765 | 20% | 0.2 | 10 | \$17 | 69% | 18.8 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Restaurant | Cooling Central | Existing | building | 2,765 | 1.4% | 0.04 | 15 | \$22 | 20% | 2.4 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Restaurant | Cooling Central | New | building | 2,765 | 1.4% | 0.04 | 15 | \$22 | 10% | 2.4 |
| FE-WPP | Facility Commissioning | No Facility Commissioning | Restaurant | Cooling Central | New | building | 2,765 | 16% | 0.2 | 10 | \$7,882 | 89% | 0.0 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Restaurant | Cooling Central | Existing | building | 2,765 | 7.0% | 0.07 | 15 | \$12,264 | 25% | 0.0 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Restaurant | Cooling Central | New | building | 2,765 | 7.0% | 0.07 | 15 | \$12,264 | 35% | 0.0 |
| FE-WPP | Hi Eff HVAC System Design | No HVAC Design | Restaurant | Cooling Central | New | building | 2,765 | 12% | 0.1 | 10 | \$111,391 | 51% | 0.0 |
| FE-WPP | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | Early | ton | 5,094 | 24% | 0.4 | 15 | \$108,550 | 88% | 0.0 |
| FE-WPP | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | New | ton | 4,164 | 6.7% | 0.10 | 15 | \$12,927 | 88% | 0.0 |
| FE-WPP | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | ROB | ton | 4,164 | 6.7% | 0.10 | 15 | \$12,927 | 88% | 0.0 |
| FE-WPP | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | Early | ton | 7,611 | 23% | 0.6 | 15 | \$140,105 | 88% | 0.0 |
| FE-WPP | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | New | ton | 6,124 | 4.8% | 0.1 | 15 | \$9,336 | 88% | 0.0 |
| FE-WPP | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | ROB | ton | 6,124 | 4.8% | 0.1 | 15 | \$9,336 | 88% | 0.0 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | Early | ton | 62,308 | 26% | 5.6 | 15 | \$105,354 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | New | ton | 54,288 | 15% | 2.8 | 15 | \$30,530 | 88% | 0.2 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | ROB | ton | 54,288 | 15% | 2.8 | 15 | \$30,530 | 88% | 0.2 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | Early | ton | 93,320 | 23% | 7.4 | 15 | \$154,107 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | New | ton | 85,726 | 16% | 4.8 | 15 | \$27,646 | 88% | 0.4 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | ROB | ton | 93,320 | 23% | 7.4 | 15 | \$27,646 | 88% | 0.6 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | Early | ton | 154,988 | 23% | 12.2 | 15 | \$302,924 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | New | ton | 140,275 | 14% | 7.0 | 15 | \$115,432 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | ROB | ton | 154,988 | 23% | 12.2 | 15 | \$115,432 | 88% | 0.2 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | Early | ton | 185,985 | 23% | 14.6 | 15 | \$350,154 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | New | ton | 168,330 | 14% | 8.5 | 15 | \$120,406 | 88% | 0.2 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | ROB | ton | 185,985 | 23% | 14.6 | 15 | \$120,406 | 88% | 0.3 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | Early | ton | 41,225 | 29% | 4.2 | 15 | \$83,632 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | New | ton | 32,011 | 8.9% | 1.0 | 15 | \$40,211 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | ROB | ton | 41,225 | 29% | 4.2 | 15 | \$40,211 | 88% | 0.2 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | Early | ton | 70,835 | 35% | 8.6 | 15 | \$132,173 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | New | ton | 52,831 | 13% | 2.3 | 15 | \$39,556 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | ROB | ton | 52,831 | 13% | 2.3 | 15 | \$39,556 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | Early | ton | 118,265 | 39% | 16.1 | 15 | \$187,029 | 88% | 0.2 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | New | ton | 84,321 | 15% | 4.3 | 15 | \$33,554 | 88% | 0.3 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | ROB | ton | 118,265 | 39% | 16.1 | 15 | \$33,554 | 88% | 1.1 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | Early | ton | 20,695 | 30% | 2.1 | 15 | \$32,398 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | New | ton | 16,396 | 11% | 0.6 | 15 | \$7,188 | 88% | 0.2 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | ROB | ton | 20,695 | 30% | 2.1 | 15 | \$7,188 | 88% | 0.7 |
| FE-WPP | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Restaurant | Cooling Central | Existing | building | 2,765 | 3.5% | 0.04 | 10 | \$2,513 | 81% | 0.0 |
| FE-WPP | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Restaurant | Cooling Central | New | building | 2,765 | 3.5% | 0.04 | 10 | \$2,513 | 81% | 0.0 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Restaurant | Cooling Central | Existing | building | 2,765 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|---|------------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Restaurant | Cooling Central | New | building | 2,765 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.2 |
| FE-WPP | Re-Commissioning (Existing Construction) | No Re-Commissioning | Restaurant | Cooling Central | Existing | building | 2,765 | 16% | 0.2 | 5 | \$12,732 | 86% | 0.0 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Restaurant | Cooling Central | Existing | building | 2,765 | 12% | 0.1 | 15 | \$6,404 | 26% | 0.0 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Restaurant | Cooling Central | New | building | 2,765 | 0.5% | 0.01 | 15 | \$4,912 | 94% | 0.0 |
| FE-WPP | <65k BTU/hr 14 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Restaurant | Cooling Unitary | Early | ton | 1,932 | 16% | 0.2 | 15 | \$1,545 | 29% | 0.2 |
| FE-WPP | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Restaurant | Cooling Unitary | New | ton | 1,750 | 7.1% | 0.10 | 15 | \$339 | 29% | 0.4 |
| FE-WPP | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Restaurant | Cooling Unitary | ROB | ton | 1,750 | 7.1% | 0.10 | 15 | \$339 | 29% | 0.4 |
| FE-WPP | <65k BTU/hr 15 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Restaurant | Cooling Unitary | Early | ton | 1,932 | 22% | 0.3 | 15 | \$1,821 | 30% | 0.3 |
| FE-WPP | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Restaurant | Cooling Unitary | New | ton | 1,750 | 13% | 0.2 | 15 | \$714 | 30% | 0.4 |
| FE-WPP | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Restaurant | Cooling Unitary | ROB | ton | 1,750 | 13% | 0.2 | 15 | \$714 | 30% | 0.4 |
| FE-WPP | <65k BTU/hr 16 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Restaurant | Cooling Unitary | Early | ton | 1,932 | 26% | 0.4 | 15 | \$2,098 | 31% | 0.3 |
| FE-WPP | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Restaurant | Cooling Unitary | New | ton | 1,750 | 19% | 0.3 | 15 | \$1,089 | 31% | 0.3 |
| FE-WPP | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Restaurant | Cooling Unitary | ROB | ton | 1,750 | 19% | 0.3 | 15 | \$1,089 | 31% | 0.3 |
| FE-WPP | >760k min 10.2 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Restaurant | Cooling Unitary | Early | ton | 48,891 | 3.7% | 1.4 | 15 | \$68,066 | 56% | 0.0 |
| FE-WPP | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Restaurant | Cooling Unitary | New | ton | 49,518 | 4.9% | 1.9 | 15 | \$6,231 | 56% | 0.5 |
| FE-WPP | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Restaurant | Cooling Unitary | ROB | ton | 49,518 | 4.9% | 1.9 | 15 | \$6,231 | 56% | 0.5 |
| FE-WPP | 135-240k min 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Restaurant | Cooling Unitary | Early | ton | 12,030 | 18% | 1.7 | 15 | \$18,135 | 79% | 0.1 |
| FE-WPP | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Restaurant | Cooling Unitary | New | ton | 10,943 | 10.0% | 0.8 | 15 | \$1,948 | 79% | 0.6 |
| FE-WPP | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Restaurant | Cooling Unitary | ROB | ton | 10,943 | 10.0% | 0.8 | 15 | \$1,948 | 79% | 0.6 |
| FE-WPP | 240k-760k min 11 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Restaurant | Cooling Unitary | Early | ton | 32,165 | 9.0% | 2.3 | 15 | \$44,809 | 66% | 0.1 |
| FE-WPP | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Restaurant | Cooling Unitary | New | ton | 32,245 | 9.3% | 2.3 | 15 | \$4,813 | 66% | 0.7 |
| FE-WPP | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Restaurant | Cooling Unitary | ROB | ton | 32,245 | 9.3% | 2.3 | 15 | \$4,813 | 66% | 0.7 |
| FE-WPP | 65k-135k BTU/hr 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Restaurant | Cooling Unitary | Early | ton | 7,091 | 17% | 0.9 | 15 | \$10,946 | 86% | 0.1 |
| FE-WPP | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Restaurant | Cooling Unitary | New | ton | 6,320 | 6.7% | 0.3 | 15 | \$1,392 | 86% | 0.4 |
| FE-WPP | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Restaurant | Cooling Unitary | ROB | ton | 6,320 | 6.7% | 0.3 | 15 | \$1,392 | 86% | 0.4 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Restaurant | Cooling Unitary | Existing | building | 25,651 | 7.0% | 0.07 | 6 | \$19,530 | 82% | 0.0 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Restaurant | Cooling Unitary | New | building | 25,651 | 7.1% | 0.07 | 6 | \$19,530 | 82% | 0.0 |
| FE-WPP | Adding window shade film | No shade film | Restaurant | Cooling Unitary | Existing | building | 25,651 | 1.3% | 0.4 | 10 | \$312 | 12% | 1.2 |
| FE-WPP | Adding window shade film | No shade film | Restaurant | Cooling Unitary | New | building | 25,651 | 1.3% | 0.4 | 10 | \$312 | 13% | 1.2 |
| FE-WPP | Adding window shade screen | No shade screen | Restaurant | Cooling Unitary | Existing | building | 25,651 | 1.1% | 0.01 | 10 | \$121 | 12% | 0.9 |
| FE-WPP | Adding window shade screen | No shade screen | Restaurant | Cooling Unitary | New | building | 25,651 | 1.1% | 0.01 | 10 | \$121 | 13% | 0.9 |
| FE-WPP | Automated control system | Manual Controls | Restaurant | Cooling Unitary | Existing | building | 25,651 | 17% | 0.2 | 15 | \$28,081 | 51% | 0.1 |
| FE-WPP | Automated control system | Manual Controls | Restaurant | Cooling Unitary | New | building | 25,651 | 17% | 0.2 | 15 | \$28,081 | 94% | 0.1 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Restaurant | Cooling Unitary | Existing | building | 25,651 | 8.9% | 0.09 | 15 | \$26,661 | 71% | 0.0 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Restaurant | Cooling Unitary | New | building | 25,651 | 3.0% | 0.03 | 15 | \$25,342 | 94% | 0.0 |
| FE-WPP | Commercial energy recovery ventilation systems | No Commercial Recovery System | Restaurant | Cooling Unitary | Existing | building | 25,651 | 16% | 0.2 | 14 | \$23,179 | 71% | 0.1 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Restaurant | Cooling Unitary | Existing | building | 25,651 | 1.4% | 0.04 | 15 | \$204 | 20% | 1.0 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Restaurant | Cooling Unitary | New | building | 25,651 | 1.4% | 0.04 | 15 | \$204 | 10% | 1.0 |
| FE-WPP | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Restaurant | Cooling Unitary | Existing | building | 14,108 | 13% | 0.1 | 1 | \$135 | 73% | 0.7 |
| FE-WPP | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Restaurant | Cooling Unitary | New | building | 14,108 | 13% | 0.1 | 1 | \$135 | 73% | 0.7 |
| FE-WPP | ECM Motors for split systems | Std Shaded Pole Motor | Restaurant | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.7 |
| FE-WPP | ECM Motors for split systems | Std Shaded Pole Motor | Restaurant | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.7 |
| FE-WPP | Facility Commissioning | No Facility Commissioning | Restaurant | Cooling Unitary | New | building | 25,651 | 16% | 0.2 | 10 | \$416 | 89% | 3.8 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Restaurant | Cooling Unitary | Existing | building | 25,651 | 7.1% | 0.07 | 15 | \$113,781 | 25% | 0.0 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Restaurant | Cooling Unitary | New | building | 25,651 | 7.0% | 0.07 | 15 | \$113,781 | 35% | 0.0 |
| FE-WPP | Hi Eff HVAC System Design | No HVAC Design | Restaurant | Cooling Unitary | New | building | 25,651 | 12% | 0.1 | 10 | \$1,490 | 51% | 0.8 |
| FE-WPP | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Restaurant | Cooling Unitary | Existing | building | 25,651 | 5.0% | 0.05 | 5 | \$225 | 59% | 1.2 |
| FE-WPP | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Restaurant | Cooling Unitary | Existing | building | 25,651 | 0.5% | 0.05 | 5 | \$225 | 51% | 0.2 |
| FE-WPP | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Restaurant | Cooling Unitary | New | building | 25,651 | 0.5% | 0.05 | 5 | \$135 | 51% | 0.3 |
| FE-WPP | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Restaurant | Cooling Unitary | Existing | building | 25,651 | 3.5% | 0.04 | 10 | \$2,701 | 86% | 0.1 |
| FE-WPP | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Restaurant | Cooling Unitary | New | building | 25,651 | 3.5% | 0.04 | 10 | \$2,701 | 86% | 0.1 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) | Restaurant | Cooling Unitary | Existing | building | 25,651 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.7 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Restaurant | Cooling Unitary | New | building | 25,651 | 1.7% | 0.02 | 11 | \$146 | 49% | 1.2 |
| FE-WPP | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Restaurant | Cooling Unitary | Early | unit | 760 | 19% | 0.08 | 15 | \$849 | 85% | 0.2 |
| FE-WPP | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Restaurant | Cooling Unitary | New | unit | 768 | 20% | 0.09 | 15 | \$356 | 85% | 0.4 |
| FE-WPP | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Restaurant | Cooling Unitary | ROB | unit | 768 | 20% | 0.09 | 15 | \$356 | 85% | 0.4 |
| FE-WPP | Re-Commissioning (Existing Construction) | No Re-Commissioning | Restaurant | Cooling Unitary | Existing | building | 25,651 | 16% | 0.2 | 5 | \$12,732 | 86% | 0.1 |
| FE-WPP | Room AC (w/ louvered sides) | Exisiting efficiency Room AC in Pennsylvania (2000 Federal Standards) | Restaurant | Cooling Unitary | Early | ton | 794 | 13% | 0.04 | 9 | \$348 | 82% | 0.2 |
| FE-WPP | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Restaurant | Cooling Unitary | New | ton | 720 | 4.5% | 0.01 | 9 | \$17 | 82% | 1.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|--|---|------------|-----------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Restaurant | Cooling Unitary | ROB | ton | 720 | 4.5% | 0.01 | 9 | \$17 | 82% | 1.0 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Restaurant | Cooling Unitary | Existing | building | 25,651 | 12% | 0.1 | 15 | \$6,404 | 26% | 0.2 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Restaurant | Cooling Unitary | New | building | 25,651 | 0.5% | 0.01 | 15 | \$4,912 | 94% | 0.0 |
| FE-WPP | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Restaurant | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 1.0 |
| FE-WPP | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Restaurant | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.3 |
| FE-WPP | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Restaurant | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.3 |
| FE-WPP | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Restaurant | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 0% | 0.2 |
| FE-WPP | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Restaurant | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-WPP | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Restaurant | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-WPP | LED exterior lighting | 250 Watt Incandescent | Restaurant | Ext. Lighting | ROB | measure | 515 | 83% | 0.1 | 15 | \$104 | 89% | 2.9 |
| FE-WPP | LED exterior lighting | 250 Watt Incandescent | Restaurant | Ext. Lighting | ROB | measure | 515 | 83% | 0.1 | 15 | \$104 | 89% | 2.9 |
| FE-WPP | LED exterior lighting | 250 Watt Incandescent | Restaurant | Ext. Lighting | ROB | measure | 515 | 83% | 0.1 | 15 | \$104 | 89% | 2.9 |
| FE-WPP | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Restaurant | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 75% | 0.3 |
| FE-WPP | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Restaurant | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 75% | 0.2 |
| FE-WPP | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Restaurant | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.6 |
| FE-WPP | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Restaurant | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.0 |
| FE-WPP | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Restaurant | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.6 |
| FE-WPP | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Restaurant | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.0 |
| FE-WPP | Photocell Controls (Outdoor) | Lighting w/ No Controls | Restaurant | Ext. Lighting | Existing | building | 113 | 28% | 0.3 | 8 | \$891 | 88% | 0.2 |
| FE-WPP | Photocell Controls (Outdoor) | Lighting w/ No Controls | Restaurant | Ext. Lighting | New | building | 113 | 28% | 0.3 | 8 | \$891 | 0% | 0.2 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Restaurant | Heat Pump | Existing | building | 1,977 | 6.9% | 0.07 | 6 | \$19,530 | 82% | 0.0 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Restaurant | Heat Pump | New | building | 1,977 | 6.9% | 0.07 | 6 | \$19,530 | 82% | 0.0 |
| FE-WPP | Adding window shade film | No shade film | Restaurant | Heat Pump | Existing | building | 1,977 | 3.9% | 0.4 | 10 | \$24 | 12% | 11.1 |
| FE-WPP | Adding window shade film | No shade film | Restaurant | Heat Pump | New | building | 1,977 | 3.9% | 0.4 | 10 | \$24 | 12% | 11.1 |
| FE-WPP | Adding window shade screen | No shade screen | Restaurant | Heat Pump | Existing | building | 1,977 | 0.3% | 0.01 | 10 | \$3.1 | 12% | 2.8 |
| FE-WPP | Adding window shade screen | No shade screen | Restaurant | Heat Pump | New | building | 1,977 | 0.3% | 0.01 | 10 | \$3.1 | 12% | 2.8 |
| FE-WPP | Automated control system | Manual Controls | Restaurant | Heat Pump | Existing | building | 1,977 | 17% | 0.2 | 15 | \$2,164 | 51% | 0.1 |
| FE-WPP | Automated control system | Manual Controls | Restaurant | Heat Pump | New | building | 1,977 | 17% | 0.2 | 15 | \$2,164 | 94% | 0.1 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Restaurant | Heat Pump | Existing | building | 1,977 | 8.9% | 0.09 | 15 | \$26,661 | 71% | 0.0 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Restaurant | Heat Pump | New | building | 1,977 | 3.0% | 0.03 | 15 | \$25,342 | 94% | 0.0 |
| FE-WPP | Commercial energy recovery ventilation systems | No Commercial Recovery System | Restaurant | Heat Pump | Existing | building | 1,977 | 16% | 0.2 | 14 | \$1,049,068 | 71% | 0.0 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Restaurant | Heat Pump | Existing | building | 1,977 | 4.0% | 0.04 | 15 | \$16 | 12% | 4.5 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Restaurant | Heat Pump | New | building | 1,977 | 4.0% | 0.04 | 15 | \$16 | 6% | 4.5 |
| FE-WPP | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Restaurant | Heat Pump | Early | heat pump | 2,095 | 11% | 0.02 | 15 | \$4,070 | 83% | 0.0 |
| FE-WPP | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Restaurant | Heat Pump | New | heat pump | 2,020 | 8.0% | 0.01 | 15 | \$1,097 | 83% | 0.1 |
| FE-WPP | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Restaurant | Heat Pump | ROB | heat pump | 2,020 | 8.0% | 0.01 | 15 | \$1,097 | 83% | 0.1 |
| FE-WPP | Facility Commissioning | No Facility Commissioning | Restaurant | Heat Pump | New | building | 1,977 | 16% | 0.2 | 10 | \$7,882 | 89% | 0.0 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Restaurant | Heat Pump | Existing | building | 1,977 | 7.0% | 0.07 | 15 | \$8,770 | 25% | 0.0 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Restaurant | Heat Pump | New | building | 1,977 | 7.0% | 0.07 | 15 | \$8,770 | 35% | 0.0 |
| FE-WPP | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Restaurant | Heat Pump | Early | heat pump | 21,173 | 14% | 0.2 | 15 | \$91,117 | 19% | 0.0 |
| FE-WPP | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Restaurant | Heat Pump | New | heat pump | 20,599 | 11% | 0.2 | 15 | \$33,927 | 19% | 0.0 |
| FE-WPP | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Restaurant | Heat Pump | ROB | heat pump | 20,599 | 11% | 0.2 | 15 | \$33,927 | 19% | 0.0 |
| FE-WPP | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Restaurant | Heat Pump | Early | heat pump | 21,173 | 14% | 0.2 | 15 | \$58,356 | 19% | 0.0 |
| FE-WPP | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Restaurant | Heat Pump | New | heat pump | 20,599 | 11% | 0.2 | 15 | \$1,167 | 19% | 1.1 |
| FE-WPP | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Restaurant | Heat Pump | ROB | heat pump | 20,599 | 11% | 0.2 | 15 | \$1,167 | 19% | 1.1 |
| FE-WPP | Hi Eff HVAC System Design | No HVAC Design | Restaurant | Heat Pump | New | building | 1,977 | 12% | 0.1 | 10 | \$111,391 | 51% | 0.0 |
| FE-WPP | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Restaurant | Heat Pump | Early | heat pump | 5,586 | 15% | 0.07 | 12 | \$4,298 | 81% | 0.1 |
| FE-WPP | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Restaurant | Heat Pump | New | heat pump | 5,387 | 12% | 0.06 | 12 | \$852 | 81% | 0.3 |
| FE-WPP | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Restaurant | Heat Pump | ROB | heat pump | 5,387 | 12% | 0.06 | 12 | \$852 | 81% | 0.3 |
| FE-WPP | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Restaurant | Heat Pump | Existing | building | 1,977 | 5.0% | 0.01 | 5 | \$90 | 51% | 0.2 |
| FE-WPP | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Restaurant | Heat Pump | New | building | 1,977 | 5.0% | 0.01 | 5 | \$90 | 51% | 0.2 |
| FE-WPP | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Restaurant | Heat Pump | Existing | building | 1,977 | 3.5% | 0.04 | 10 | \$2,405 | 81% | 0.0 |
| FE-WPP | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Restaurant | Heat Pump | New | building | 1,977 | 3.5% | 0.04 | 10 | \$2,405 | 81% | 0.0 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Restaurant | Heat Pump | Existing | building | 1,977 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.1 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Restaurant | Heat Pump | New | building | 1,977 | 2.1% | 0.02 | 11 | \$146 | 49% | 0.2 |
| FE-WPP | Re-Commissioning (Existing Construction) | No Re-Commissioning | Restaurant | Heat Pump | Existing | building | 1,977 | 16% | 0.2 | 5 | \$12,732 | 86% | 0.0 |
| FE-WPP | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Restaurant | Heat Pump | New | measure | 2,695,700 | 2.0% | 6.2 | 13 | \$339,358 | 43% | 0.1 |
| FE-WPP | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Restaurant | Heat Pump | ROB | measure | 2,695,700 | 2.0% | 6.2 | 13 | \$339,358 | 43% | 0.1 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Restaurant | Heat Pump | Existing | building | 1,977 | 12% | 0.1 | 15 | \$6,404 | 26% | 0.0 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Restaurant | Heat Pump | New | building | 1,977 | 0.5% | 0.01 | 15 | \$4,912 | 94% | 0.0 |
| FE-WPP | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Restaurant | Heat Pump | Early | heat pump | 9,170 | 38% | 0.3 | 15 | \$35,347 | 28% | 0.1 |
| FE-WPP | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Restaurant | Heat Pump | New | heat pump | 8,844 | 36% | 0.3 | 15 | \$15,739 | 28% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|---|------------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Restaurant | Heat Pump | ROB | heat pump | 8,844 | 36% | 0.3 | 15 | \$15,739 | 28% | 0.1 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | Early | Fixture | 1,000 | 9.6% | 0.02 | 13 | \$850 | 39% | 0.1 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Restaurant | High Bay Lighting | Early | Fixture | 999 | 9.5% | 0.02 | 13 | \$850 | 28% | 0.1 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Restaurant | High Bay Lighting | Early | Fixture | 1,542 | 41% | 0.1 | 13 | \$850 | 36% | 0.4 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | New | Fixture | 760 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Restaurant | High Bay Lighting | New | Fixture | 707 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Restaurant | High Bay Lighting | New | Fixture | 1,172 | 41% | 0.09 | 13 | \$397 | 36% | 0.7 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 1,000 | 9.6% | 0.02 | 13 | \$372 | 39% | 0.2 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 930 | 2.9% | 0.01 | 13 | \$338 | 28% | 0.0 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 1,542 | 41% | 0.1 | 13 | \$397 | 36% | 0.9 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | Early | Fixture | 1,941 | 19% | 0.07 | 13 | \$851 | 38% | 0.3 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Restaurant | High Bay Lighting | Early | Fixture | 1,965 | 20% | 0.08 | 13 | \$851 | 38% | 0.3 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | Early | Fixture | 5,715 | 73% | 0.8 | 13 | \$851 | 38% | 2.8 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | New | Fixture | 1,475 | 19% | 0.05 | 13 | \$372 | 38% | 0.4 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | New | Fixture | 4,344 | 73% | 0.6 | 13 | \$383 | 38% | 4.8 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 1,941 | 19% | 0.07 | 13 | \$372 | 38% | 0.6 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 5,715 | 73% | 0.8 | 13 | \$383 | 38% | 6.3 |
| FE-WPP | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | Early | Fixture | 1,941 | 25% | 0.09 | 13 | \$554 | 29% | 0.5 |
| FE-WPP | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Restaurant | High Bay Lighting | Early | Fixture | 1,905 | 23% | 0.09 | 13 | \$554 | 28% | 0.5 |
| FE-WPP | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | Early | Fixture | 5,715 | 74% | 0.8 | 13 | \$554 | 36% | 4.5 |
| FE-WPP | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | New | Fixture | 1,475 | 25% | 0.07 | 13 | \$75 | 29% | 2.8 |
| FE-WPP | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | New | Fixture | 4,344 | 74% | 0.6 | 13 | \$86 | 36% | 22.0 |
| FE-WPP | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 1,941 | 25% | 0.09 | 13 | \$75 | 29% | 3.7 |
| FE-WPP | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 5,715 | 74% | 0.8 | 13 | \$86 | 36% | 28.9 |
| FE-WPP | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Restaurant | High Bay Lighting | Early | Fixture | 506 | 0.2% | 0.00 | 13 | \$835 | 38% | 0.0 |
| FE-WPP | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Restaurant | High Bay Lighting | Early | Fixture | 1,090 | 54% | 0.1 | 13 | \$835 | 38% | 0.4 |
| FE-WPP | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Restaurant | High Bay Lighting | New | Fixture | 828 | 54% | 0.09 | 13 | \$382 | 38% | 0.7 |
| FE-WPP | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 1,090 | 54% | 0.1 | 13 | \$382 | 38% | 0.9 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | Early | Fixture | 2,472 | 18% | 0.09 | 13 | \$487 | 25% | 0.5 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Restaurant | High Bay Lighting | Early | Fixture | 2,585 | 22% | 0.1 | 13 | \$487 | 28% | 0.7 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | Early | Fixture | 5,715 | 65% | 0.7 | 13 | \$487 | 36% | 4.4 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | New | Fixture | 1,879 | 18% | 0.07 | 13 | \$16 | 25% | 12.3 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | New | Fixture | 4,344 | 65% | 0.5 | 13 | \$18 | 36% | 89.1 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 2,472 | 18% | 0.09 | 13 | \$16 | 25% | 16.2 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 5,715 | 65% | 0.7 | 13 | \$18 | 36% | 117.2 |
| FE-WPP | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | Early | Fixture | 2,472 | 1.5% | 0.01 | 13 | \$557 | 19% | 0.0 |
| FE-WPP | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Restaurant | High Bay Lighting | Early | Fixture | 2,545 | 4.3% | 0.02 | 13 | \$557 | 19% | 0.1 |
| FE-WPP | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | Early | Fixture | 5,715 | 57% | 0.6 | 13 | \$557 | 19% | 3.4 |
| FE-WPP | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | New | Fixture | 1,879 | 1.5% | 0.01 | 13 | \$86 | 19% | 0.2 |
| FE-WPP | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | New | Fixture | 4,344 | 57% | 0.5 | 13 | \$88 | 19% | 16.5 |
| FE-WPP | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 2,472 | 1.5% | 0.01 | 13 | \$86 | 19% | 0.3 |
| FE-WPP | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 5,715 | 57% | 0.6 | 13 | \$88 | 19% | 21.7 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Restaurant | High Bay Lighting | Early | Fixture | 1,050 | 29% | 0.04 | 13 | \$492 | 71% | 0.3 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | Early | Fixture | 878 | 15% | 0.02 | 13 | \$492 | 95% | 0.1 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Restaurant | High Bay Lighting | Early | Fixture | 1,304 | 43% | 0.08 | 13 | \$492 | 95% | 0.6 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Restaurant | High Bay Lighting | Early | Fixture | 1,209 | 38% | 0.06 | 13 | \$492 | 95% | 0.5 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | New | Fixture | 667 | 15% | 0.01 | 13 | \$25 | 95% | 2.2 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Restaurant | High Bay Lighting | New | Fixture | 991 | 43% | 0.06 | 13 | \$51 | 95% | 4.4 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 878 | 15% | 0.02 | 13 | \$25 | 95% | 2.8 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 1,304 | 43% | 0.08 | 13 | \$51 | 95% | 5.8 |
| FE-WPP | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Restaurant | High Bay Lighting | Early | lamp | 120 | 16% | 0.00 | 9 | \$7.7 | 99% | 1.1 |
| FE-WPP | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Restaurant | High Bay Lighting | New | lamp | 72 | 13% | 0.00 | 9 | \$1.6 | 91% | 2.4 |
| FE-WPP | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Restaurant | High Bay Lighting | ROB | lamp | 116 | 13% | 0.00 | 9 | \$1.6 | 91% | 3.9 |
| FE-WPP | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | Early | Fixture | 5,848 | 23% | 0.3 | 13 | \$613 | 5% | 1.3 |
| FE-WPP | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Restaurant | High Bay Lighting | Early | Fixture | 4,595 | 1.6% | 0.01 | 13 | \$613 | 28% | 0.1 |
| FE-WPP | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | Early | Fixture | 11,431 | 60% | 1.3 | 13 | \$613 | 18% | 6.6 |
| FE-WPP | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | New | Fixture | 4,445 | 23% | 0.2 | 13 | \$96 | 5% | 6.1 |
| FE-WPP | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 5,848 | 23% | 0.3 | 13 | \$96 | 5% | 8.1 |
| FE-WPP | Auto Off Time Switch | Lighting w/ No Controls | Restaurant | High Bay Lighting | Existing | building | 163 | 24% | 0.2 | 8 | \$181 | 13% | 0.8 |
| FE-WPP | Auto Off Time Switch | Lighting w/ No Controls | Restaurant | High Bay Lighting | New | building | 163 | 6.9% | 0.07 | 8 | \$181 | 0% | 0.2 |
| FE-WPP | Central Lighting Control System | Lighting w/ No Controls | Restaurant | High Bay Lighting | Existing | building | 163 | 38% | 0.4 | 8 | \$181 | 13% | 1.3 |
| FE-WPP | Central Lighting Control System | Lighting w/ No Controls | Restaurant | High Bay Lighting | New | building | 163 | 14% | 0.1 | 8 | \$181 | 13% | 0.5 |
| FE-WPP | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Restaurant | High Bay Lighting | New | building | 163 | 10% | 0.1 | 15 | \$46,260 | 32% | 0.0 |
| FE-WPP | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Restaurant | High Bay Lighting | New | building | 163 | 15% | 0.2 | 15 | \$115,651 | 32% | 0.0 |
| FE-WPP | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Restaurant | High Bay Lighting | New | building | 163 | 30% | 0.3 | 15 | \$165,766 | 32% | 0.0 |
| FE-WPP | Indoor Daylight Sensors | Lighting w/ No Controls | Restaurant | High Bay Lighting | Existing | building | 163 | 28% | 0.3 | 8 | \$891 | 13% | 0.2 |
| FE-WPP | Indoor Daylight Sensors | Lighting w/ No Controls | Restaurant | High Bay Lighting | New | building | 163 | 4.0% | 0.04 | 8 | \$891 | 0% | 0.0 |
| FE-WPP | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | Early | Fixture | 5,848 | 92% | 1.0 | 13 | \$1,916 | 95% | 1.6 |
| FE-WPP | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | Early | Fixture | 11,431 | 96% | 2.1 | 13 | \$1,916 | 95% | 3.3 |
| FE-WPP | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | New | Fixture | 4,445 | 92% | 0.8 | 13 | \$1,468 | 95% | 1.6 |
| FE-WPP | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | New | Fixture | 8,687 | 96% | 1.6 | 13 | \$1,149 | 95% | 4.2 |
| FE-WPP | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 5,848 | 92% | 1.0 | 13 | \$1,468 | 95% | 2.1 |
| FE-WPP | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 11,431 | 96% | 2.1 | 13 | \$1,149 | 95% | 5.6 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | Early | Fixture | 1,941 | 67% | 0.3 | 13 | \$960 | 95% | 0.8 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|--|------------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Restaurant | High Bay Lighting | Early | Fixture | 5,715 | 89% | 1.0 | 13 | \$960 | 95% | 3.1 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Restaurant | High Bay Lighting | Early | Fixture | 1,568 | 59% | 0.2 | 13 | \$960 | 95% | 0.6 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | New | Fixture | 1,475 | 67% | 0.2 | 13 | \$480 | 95% | 1.2 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Restaurant | High Bay Lighting | New | Fixture | 4,344 | 89% | 0.7 | 13 | \$491 | 95% | 4.6 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Restaurant | High Bay Lighting | New | Fixture | 1,192 | 59% | 0.1 | 13 | \$406 | 95% | 1.0 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 1,941 | 67% | 0.3 | 13 | \$480 | 95% | 1.6 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 5,715 | 89% | 1.0 | 13 | \$491 | 95% | 6.0 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 1,568 | 59% | 0.2 | 13 | \$406 | 95% | 1.3 |
| FE-WPP | Occupancy Sensor | Lighting w/ No Controls | Restaurant | High Bay Lighting | Existing | building | 163 | 24% | 0.2 | 8 | \$273 | 12% | 0.5 |
| FE-WPP | Occupancy Sensor | Lighting w/ No Controls | Restaurant | High Bay Lighting | New | building | 163 | 6.9% | 0.07 | 8 | \$273 | 0% | 0.2 |
| FE-WPP | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Restaurant | High Bay Lighting | Existing | building | 163 | 28% | 0.3 | 8 | \$891 | 12% | 0.2 |
| FE-WPP | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Restaurant | High Bay Lighting | New | building | 163 | 4.0% | 0.04 | 8 | \$891 | 0% | 0.0 |
| FE-WPP | Time Clock Control | Lighting w/ No Controls | Restaurant | High Bay Lighting | Existing | building | 163 | 28% | 0.3 | 8 | \$181 | 13% | 0.9 |
| FE-WPP | Time Clock Control | Lighting w/ No Controls | Restaurant | High Bay Lighting | New | building | 163 | 4.1% | 0.04 | 8 | \$181 | 0% | 0.1 |
| FE-WPP | Auto Off Time Switch | Lighting w/ No Controls | Restaurant | Lin. Fluor. Lighting | Existing | building | 9,977 | 24% | 0.2 | 8 | \$181 | 13% | 4.7 |
| FE-WPP | Auto Off Time Switch | Lighting w/ No Controls | Restaurant | Lin. Fluor. Lighting | New | building | 9,977 | 7.0% | 0.07 | 8 | \$181 | 0% | 1.3 |
| FE-WPP | Central Lighting Control System | Lighting w/ No Controls | Restaurant | Lin. Fluor. Lighting | Existing | building | 9,977 | 38% | 0.4 | 8 | \$181 | 12% | 7.4 |
| FE-WPP | Central Lighting Control System | Lighting w/ No Controls | Restaurant | Lin. Fluor. Lighting | New | building | 9,977 | 14% | 0.1 | 8 | \$181 | 12% | 2.7 |
| FE-WPP | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Restaurant | Lin. Fluor. Lighting | New | building | 9,977 | 10% | 0.1 | 15 | \$46,260 | 32% | 0.0 |
| FE-WPP | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Restaurant | Lin. Fluor. Lighting | New | building | 9,977 | 15% | 0.2 | 15 | \$115,651 | 32% | 0.0 |
| FE-WPP | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Restaurant | Lin. Fluor. Lighting | New | building | 9,977 | 30% | 0.3 | 15 | \$165,766 | 32% | 0.0 |
| FE-WPP | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Restaurant | Lin. Fluor. Lighting | Early | Lamp | 242 | 38% | 0.01 | 9 | \$7.3 | 94% | 5.2 |
| FE-WPP | Indoor Daylight Sensors | Lighting w/ No Controls | Restaurant | Lin. Fluor. Lighting | Existing | building | 9,977 | 28% | 0.3 | 8 | \$891 | 13% | 1.1 |
| FE-WPP | Indoor Daylight Sensors | Lighting w/ No Controls | Restaurant | Lin. Fluor. Lighting | New | building | 9,977 | 4.1% | 0.04 | 8 | \$891 | 0% | 0.2 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | Early | Lamp | 109 | 19% | 0.00 | 11 | \$35 | 94% | 0.3 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 40W T12 Lamp, Magnetic Ballast | Restaurant | Lin. Fluor. Lighting | Early | Lamp | 240 | 63% | 0.03 | 11 | \$35 | 94% | 2.3 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | Early | Lamp | 135 | 34% | 0.01 | 11 | \$35 | 94% | 0.7 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | Early | Lamp | 131 | 32% | 0.01 | 11 | \$35 | 94% | 0.6 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | New | Lamp | 83 | 19% | 0.00 | 11 | \$28 | 94% | 0.3 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | New | Lamp | 99 | 32% | 0.01 | 11 | \$29 | 94% | 0.6 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | New | Lamp | 102 | 34% | 0.01 | 11 | \$22 | 94% | 0.9 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | New | Lamp | 99 | 32% | 0.01 | 11 | \$29 | 94% | 0.6 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | ROB | Lamp | 109 | 19% | 0.00 | 11 | \$28 | 94% | 0.4 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | ROB | Lamp | 131 | 32% | 0.01 | 11 | \$29 | 94% | 0.8 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | ROB | Lamp | 135 | 34% | 0.01 | 11 | \$22 | 94% | 1.1 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | ROB | Lamp | 131 | 32% | 0.01 | 11 | \$29 | 94% | 0.8 |
| FE-WPP | Occupancy Sensor | Lighting w/ No Controls | Restaurant | Lin. Fluor. Lighting | Existing | building | 9,977 | 24% | 0.2 | 8 | \$273 | 13% | 3.1 |
| FE-WPP | Occupancy Sensor | Lighting w/ No Controls | Restaurant | Lin. Fluor. Lighting | New | building | 9,977 | 7.0% | 0.07 | 8 | \$273 | 0% | 0.9 |
| FE-WPP | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Restaurant | Lin. Fluor. Lighting | Existing | building | 9,977 | 28% | 0.3 | 8 | \$891 | 12% | 1.1 |
| FE-WPP | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Restaurant | Lin. Fluor. Lighting | New | building | 9,977 | 4.1% | 0.04 | 8 | \$891 | 0% | 0.2 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 40W T12 w/ Magnetic Ballast | Restaurant | Lin. Fluor. Lighting | Early | Lamp | 242 | 54% | 0.02 | 9 | \$9.1 | 94% | 6.0 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | Early | Lamp | 155 | 28% | 0.01 | 9 | \$9.1 | 24% | 2.0 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | Early | Lamp | 150 | 26% | 0.01 | 9 | \$9.1 | 94% | 1.8 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | New | Lamp | 114 | 26% | 0.00 | 9 | \$2.5 | 94% | 4.9 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | New | Lamp | 114 | 26% | 0.00 | 9 | \$2.5 | 94% | 4.9 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | New | Lamp | 118 | 28% | 0.00 | 9 | \$2.5 | 24% | 5.5 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | New | Lamp | 114 | 26% | 0.00 | 9 | \$2.5 | 94% | 4.9 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | ROB | Lamp | 150 | 26% | 0.01 | 9 | \$2.5 | 94% | 6.4 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | ROB | Lamp | 150 | 26% | 0.01 | 9 | \$2.5 | 94% | 6.4 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | ROB | Lamp | 155 | 28% | 0.01 | 9 | \$2.5 | 24% | 7.2 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | ROB | Lamp | 150 | 26% | 0.01 | 9 | \$2.5 | 94% | 6.4 |
| FE-WPP | T8 Lamp (any length) Electronic Ballast | Standard T12 lamp (any length) | Restaurant | Lin. Fluor. Lighting | Early | Lamp | 285 | 42% | 0.02 | 9 | \$14 | 94% | 3.6 |
| FE-WPP | Time Clock Control | Lighting w/ No Controls | Restaurant | Lin. Fluor. Lighting | Existing | building | 9,977 | 28% | 0.3 | 8 | \$181 | 14% | 5.4 |
| FE-WPP | Time Clock Control | Lighting w/ No Controls | Restaurant | Lin. Fluor. Lighting | New | building | 9,977 | 4.1% | 0.04 | 8 | \$181 | 0% | 0.8 |
| FE-WPP | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | Early | motor | 4,220 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| FE-WPP | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | Early | motor | 4,220 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| FE-WPP | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | Early | motor | 4,220 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| FE-WPP | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | Early | motor | 4,220 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.3 |
| FE-WPP | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | Early | motor | 4,220 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| FE-WPP | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | New | motor | 4,091 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| FE-WPP | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | New | motor | 4,091 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| FE-WPP | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | New | motor | 4,091 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| FE-WPP | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | New | motor | 4,091 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|--|------------|---------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | Early | motor | 29,533 | 2.9% | 0.1 | 15 | \$802 | 83% | 0.6 |
| FE-WPP | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | Early | motor | 29,533 | 2.9% | 0.1 | 15 | \$802 | 83% | 0.6 |
| FE-WPP | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | Early | motor | 29,533 | 2.9% | 0.1 | 15 | \$802 | 83% | 0.6 |
| FE-WPP | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | Early | motor | 29,533 | 2.9% | 0.1 | 15 | \$802 | 83% | 0.7 |
| FE-WPP | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | Early | motor | 29,533 | 2.9% | 0.1 | 15 | \$802 | 83% | 0.6 |
| FE-WPP | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | New | motor | 28,827 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.8 |
| FE-WPP | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | New | motor | 28,827 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.7 |
| FE-WPP | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | New | motor | 28,827 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.7 |
| FE-WPP | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | New | motor | 28,827 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.8 |
| FE-WPP | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | New | motor | 28,827 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.7 |
| FE-WPP | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | ROB | motor | 28,827 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.8 |
| FE-WPP | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | ROB | motor | 28,827 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.7 |
| FE-WPP | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | ROB | motor | 28,827 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.7 |
| FE-WPP | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | ROB | motor | 28,827 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.8 |
| FE-WPP | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | ROB | motor | 28,827 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.7 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | Early | motor | 278,430 | 1.3% | 0.5 | 15 | \$3,955 | 61% | 0.5 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | Early | motor | 278,430 | 1.3% | 0.5 | 15 | \$3,955 | 61% | 0.5 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | Early | motor | 278,430 | 1.3% | 0.5 | 15 | \$3,955 | 61% | 0.5 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | Early | motor | 278,430 | 1.3% | 0.5 | 15 | \$3,955 | 61% | 0.6 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | Early | motor | 278,430 | 1.3% | 0.5 | 15 | \$3,955 | 61% | 0.5 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | New | motor | 276,135 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.5 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | New | motor | 276,135 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.5 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | New | motor | 276,135 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.5 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | New | motor | 276,135 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.5 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | ROB | motor | 276,135 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.5 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | ROB | motor | 276,135 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.5 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | ROB | motor | 276,135 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.5 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | ROB | motor | 276,135 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.5 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | ROB | motor | 276,135 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.5 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | ROB | motor | 276,135 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.4 |
| FE-WPP | ASD HVAC Fan | Std. HVAC Fan | Restaurant | Motors | New | measure | 1,593 | 6.0% | 0.01 | 15 | \$6,520 | 85% | 0.0 |
| FE-WPP | ASD HVAC Fan | Std. HVAC Fan | Restaurant | Motors | ROB | measure | 1,593 | 6.0% | 0.01 | 15 | \$6,520 | 85% | 0.0 |
| FE-WPP | demand controlled ventilation | Absence of Demand Controlled Ventilation | Restaurant | Motors | Early | measure | 1,593 | 14% | 0.03 | 10 | \$15,205 | 92% | 0.0 |
| FE-WPP | demand controlled ventilation | Office building thermostat | Restaurant | Motors | New | measure | 1,593 | 14% | 0.03 | 10 | \$11,863 | 92% | 0.0 |
| FE-WPP | demand controlled ventilation | Office building thermostat | Restaurant | Motors | ROB | measure | 1,593 | 14% | 0.03 | 10 | \$11,863 | 92% | 0.0 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Restaurant | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 20.3 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Restaurant | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 20.6 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Restaurant | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 21.2 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Restaurant | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 21.6 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Restaurant | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 22.0 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Restaurant | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 20.5 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Restaurant | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 20.5 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Restaurant | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 21.1 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Restaurant | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 21.5 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Restaurant | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 22.0 |
| FE-WPP | Escalator Motor Controller | Constant power control | Restaurant | Motors | New | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 22% | 5.6 |
| FE-WPP | Escalator Motor Controller | Constant power control | Restaurant | Motors | ROB | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 22% | 5.6 |
| FE-WPP | Fan Motor - correct sizing | Incorrect Fan Motor Sizing | Restaurant | Motors | ROB | measure | 1,593 | 1.6% | 0.00 | 15 | \$50 | 92% | 0.3 |
| FE-WPP | Variable Speed Drive Control, 15HP | Existing Motors w/out VSD Drive | Restaurant | Motors | Early | motor | 57,655 | 70% | 5.9 | 15 | \$731 | 86% | 34.0 |
| FE-WPP | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Restaurant | Motors | New | motor | 56,415 | 72% | 5.9 | 15 | \$731 | 86% | 34.0 |
| FE-WPP | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Restaurant | Motors | ROB | motor | 56,415 | 72% | 5.9 | 15 | \$731 | 86% | 34.0 |
| FE-WPP | Variable Speed Drive Control, 40HP | Existing Motors w/out VSD Drive | Restaurant | Motors | Early | motor | 150,439 | 71% | 15.7 | 15 | \$4,666 | 86% | 14.1 |
| FE-WPP | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Restaurant | Motors | New | motor | 148,681 | 72% | 15.6 | 15 | \$4,666 | 86% | 14.0 |
| FE-WPP | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Restaurant | Motors | ROB | motor | 148,681 | 71% | 15.6 | 15 | \$4,666 | 86% | 14.0 |
| FE-WPP | Variable Speed Drive Control, 5HP | Existing Motors w/out VFD Drive | Restaurant | Motors | Early | motor | 19,987 | 72% | 2.1 | 15 | \$2,243 | 86% | 3.9 |
| FE-WPP | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Restaurant | Motors | New | motor | 19,540 | 71% | 2.1 | 15 | \$2,243 | 86% | 3.8 |
| FE-WPP | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Restaurant | Motors | ROB | motor | 19,540 | 72% | 2.1 | 15 | \$2,243 | 86% | 3.8 |
| FE-WPP | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Restaurant | Motors | Early | motor | 1,863 | 60% | 0.1 | 15 | \$268 | 86% | 2.5 |
| FE-WPP | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Restaurant | Motors | New | motor | 1,863 | 60% | 0.1 | 15 | \$268 | 86% | 2.5 |
| FE-WPP | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Restaurant | Motors | ROB | motor | 1,863 | 60% | 0.1 | 15 | \$268 | 86% | 2.5 |
| FE-WPP | VFD on Chilled Water Pump | Motor w/out VFD Drive | Restaurant | Motors | Early | motor | 16,590 | 55% | 2.7 | 15 | \$2,903 | 86% | 2.3 |
| FE-WPP | VFD on Chilled Water Pump | Motor w/out VFD Drive | Restaurant | Motors | New | motor | 16,280 | 55% | 2.7 | 15 | \$2,843 | 86% | 2.3 |
| FE-WPP | VFD on Chilled Water Pump | Motor w/out VFD Drive | Restaurant | Motors | ROB | motor | 16,280 | 55% | 2.7 | 15 | \$2,843 | 86% | 2.3 |
| FE-WPP | VFD on Condenser Water Pump | Motor w/out VFD Drive | Restaurant | Motors | Early | motor | 18,641 | 32% | 3.2 | 15 | \$2,903 | 86% | 1.9 |
| FE-WPP | VFD on Condenser Water Pump | Motor w/out VFD Drive | Restaurant | Motors | New | motor | 18,292 | 33% | 3.1 | 15 | \$2,843 | 86% | 1.9 |
| FE-WPP | VFD on Condenser Water Pump | Motor w/out VFD Drive | Restaurant | Motors | ROB | motor | 18,292 | 33% | 3.1 | 15 | \$2,843 | 86% | 1.9 |
| FE-WPP | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Restaurant | Motors | Early | motor | 27,718 | 56% | 0.00 | 15 | \$2,903 | 86% | 2.5 |
| FE-WPP | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Restaurant | Motors | New | motor | 27,199 | 57% | 0.00 | 15 | \$2,843 | 86% | 2.6 |
| FE-WPP | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Restaurant | Motors | ROB | motor | 27,199 | 57% | 0.00 | 15 | \$2,843 | 86% | 2.6 |
| FE-WPP | VFD on HVAC Fan | Motor w/out VFD | Restaurant | Motors | Early | motor | 18,724 | 70% | 3.4 | 15 | \$2,903 | 86% | 3.2 |
| FE-WPP | VFD on HVAC Fan | Motor w/out VFD | Restaurant | Motors | New | motor | 18,373 | 71% | 3.3 | 15 | \$2,843 | 86% | 3.3 |
| FE-WPP | VFD on HVAC Fan | Motor w/out VFD | Restaurant | Motors | ROB | motor | 18,373 | 72% | 3.3 | 15 | \$2,843 | 86% | 3.3 |
| FE-WPP | Elevators | Std. Eff Elevator | Restaurant | Other | ROB | measure | 89,016 | 4.7% | 0.2 | 15 | \$443 | 81% | 4.8 |
| FE-WPP | Variable Speed Drives on Process Equipment | Constant speed control | Restaurant | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 10.1 |
| FE-WPP | Variable Speed Drives on Process Equipment | Constant speed control | Restaurant | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 10.1 |
| FE-WPP | Auto Off Time Switch | Lighting w/ No Controls | Restaurant | Other Int. Lighting | Existing | building | 1,582 | 24% | 0.2 | 8 | \$181 | 13% | 1.4 |
| FE-WPP | Auto Off Time Switch | Lighting w/ No Controls | Restaurant | Other Int. Lighting | New | building | 1,582 | 7.0% | 0.07 | 8 | \$181 | 0% | 0.4 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|--|------------|---------------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Central Lighting Control System | Lighting w/ No Controls | Restaurant | Other Int. Lighting | Existing | building | 1,582 | 38% | 0.4 | 8 | \$181 | 13% | 2.1 |
| FE-WPP | Central Lighting Control System | Lighting w/ No Controls | Restaurant | Other Int. Lighting | New | building | 1,582 | 14% | 0.1 | 8 | \$181 | 13% | 0.8 |
| FE-WPP | Cold Cathode Screw-In Bulb | 40W Incandescent Bulb | Restaurant | Other Int. Lighting | Early | lamp | 253 | 87% | 0.05 | 5 | \$30 | 14% | 2.1 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Restaurant | Other Int. Lighting | Early | lamp | 181 | 81% | 0.03 | 5 | \$30 | 11% | 1.4 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Restaurant | Other Int. Lighting | New | lamp | 138 | 81% | 0.02 | 5 | \$21 | 14% | 1.5 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Restaurant | Other Int. Lighting | New | lamp | 138 | 81% | 0.02 | 5 | \$23 | 14% | 1.4 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Restaurant | Other Int. Lighting | New | lamp | 138 | 81% | 0.02 | 5 | \$22 | 11% | 1.4 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Restaurant | Other Int. Lighting | ROB | lamp | 181 | 81% | 0.03 | 5 | \$21 | 14% | 1.9 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Restaurant | Other Int. Lighting | ROB | lamp | 181 | 81% | 0.03 | 5 | \$23 | 14% | 1.8 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Restaurant | Other Int. Lighting | ROB | lamp | 181 | 81% | 0.03 | 5 | \$22 | 11% | 1.9 |
| FE-WPP | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Restaurant | Other Int. Lighting | Early | lamp | 253 | 75% | 0.04 | 2 | \$73 | 24% | 0.3 |
| FE-WPP | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Restaurant | Other Int. Lighting | New | fixture | 275 | 65% | 0.04 | 13 | \$29 | 28% | 3.7 |
| FE-WPP | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Restaurant | Other Int. Lighting | New | lamp | 138 | 65% | 0.02 | 2 | \$29 | 28% | 0.4 |
| FE-WPP | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Restaurant | Other Int. Lighting | ROB | fixture | 362 | 65% | 0.05 | 13 | \$29 | 24% | 4.9 |
| FE-WPP | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Restaurant | Other Int. Lighting | ROB | lamp | 181 | 65% | 0.03 | 2 | \$29 | 24% | 0.5 |
| FE-WPP | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Restaurant | Other Int. Lighting | Early | lamp | 253 | 75% | 0.04 | 2 | \$3.2 | 24% | 7.3 |
| FE-WPP | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Restaurant | Other Int. Lighting | New | lamp | 138 | 65% | 0.02 | 2 | \$1.8 | 24% | 6.2 |
| FE-WPP | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Restaurant | Other Int. Lighting | ROB | lamp | 181 | 65% | 0.03 | 2 | \$1.8 | 24% | 8.1 |
| FE-WPP | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Restaurant | Other Int. Lighting | ROB | lamp | 181 | 65% | 0.03 | 2 | \$1.8 | 24% | 8.1 |
| FE-WPP | Exit Sign Retrofit: CFL replacing Incandescent | One 23W Single Sided Incandescent Exit Sign | Restaurant | Other Int. Lighting | Early | exit sign | 121 | 42% | 0.01 | 15 | \$48 | 22% | 0.7 |
| FE-WPP | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Restaurant | Other Int. Lighting | New | building | 1,582 | 10% | 0.1 | 15 | \$46,260 | 32% | 0.0 |
| FE-WPP | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Restaurant | Other Int. Lighting | New | building | 1,582 | 15% | 0.2 | 15 | \$115,651 | 32% | 0.0 |
| FE-WPP | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Restaurant | Other Int. Lighting | New | building | 1,582 | 30% | 0.3 | 15 | \$165,766 | 32% | 0.0 |
| FE-WPP | Indoor Daylight Sensors | Lighting w/ No Controls | Restaurant | Other Int. Lighting | Existing | building | 1,582 | 28% | 0.3 | 8 | \$891 | 13% | 0.3 |
| FE-WPP | Indoor Daylight Sensors | Lighting w/ No Controls | Restaurant | Other Int. Lighting | New | building | 1,582 | 4.1% | 0.04 | 8 | \$891 | 0% | 0.0 |
| FE-WPP | LED Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Restaurant | Other Int. Lighting | Early | sign | 153 | 87% | 0.02 | 15 | \$48 | 16% | 1.7 |
| FE-WPP | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Restaurant | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 1.8 |
| FE-WPP | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Restaurant | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 1.8 |
| FE-WPP | LED Task Lighting/Screw-In | 1 15W CFL bulb | Restaurant | Other Int. Lighting | Early | lamp | 41 | 33% | 0.00 | 8 | \$9.6 | 24% | 0.6 |
| FE-WPP | LED Task Lighting/Screw-In | 1 60W Incandescent Bulb | Restaurant | Other Int. Lighting | Early | lamp | 163 | 83% | 0.03 | 8 | \$9.6 | 24% | 6.0 |
| FE-WPP | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Restaurant | Other Int. Lighting | New | lamp | 89 | 77% | 0.02 | 8 | \$7.9 | 24% | 3.7 |
| FE-WPP | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Restaurant | Other Int. Lighting | New | lamp | 89 | 77% | 0.02 | 8 | \$7.9 | 24% | 3.7 |
| FE-WPP | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Restaurant | Other Int. Lighting | ROB | lamp | 116 | 77% | 0.02 | 8 | \$7.9 | 24% | 4.8 |
| FE-WPP | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Restaurant | Other Int. Lighting | ROB | lamp | 116 | 77% | 0.02 | 8 | \$7.9 | 24% | 4.8 |
| FE-WPP | Occupancy Sensor | Lighting w/ No Controls | Restaurant | Other Int. Lighting | Existing | building | 1,582 | 24% | 0.2 | 8 | \$273 | 12% | 0.9 |
| FE-WPP | Occupancy Sensor | Lighting w/ No Controls | Restaurant | Other Int. Lighting | New | building | 1,582 | 7.0% | 0.07 | 8 | \$273 | 0% | 0.3 |
| FE-WPP | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Restaurant | Other Int. Lighting | Existing | building | 1,582 | 28% | 0.3 | 8 | \$891 | 12% | 0.3 |
| FE-WPP | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Restaurant | Other Int. Lighting | New | building | 1,582 | 4.1% | 0.04 | 8 | \$891 | 0% | 0.0 |
| FE-WPP | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Restaurant | Other Int. Lighting | Early | exit sign | 121 | 100% | 0.02 | 15 | \$173 | 26% | 0.4 |
| FE-WPP | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Restaurant | Other Int. Lighting | New | exit sign | 70 | 100% | 0.01 | 15 | \$148 | 31% | 0.3 |
| FE-WPP | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Restaurant | Other Int. Lighting | ROB | exit sign | 70 | 100% | 0.01 | 15 | \$148 | 26% | 0.3 |
| FE-WPP | Time Clock Control | Lighting w/ No Controls | Restaurant | Other Int. Lighting | Existing | building | 1,582 | 28% | 0.3 | 8 | \$181 | 13% | 1.6 |
| FE-WPP | Time Clock Control | Lighting w/ No Controls | Restaurant | Other Int. Lighting | New | building | 1,582 | 4.1% | 0.04 | 8 | \$181 | 0% | 0.2 |
| FE-WPP | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Restaurant | Plug Load | Existing | building | 456 | 46% | 0.5 | 5 | \$189 | 4% | 1.1 |
| FE-WPP | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Restaurant | Plug Load | New | building | 456 | 46% | 0.5 | 5 | \$189 | 4% | 1.1 |
| FE-WPP | Data Center - Server/Storage Consolidation | No Consolidation | Restaurant | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-WPP | Data Center - Server/Storage Consolidation | No Consolidation | Restaurant | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-WPP | Data Center - Server/Storage Virtualization | No Virtualization | Restaurant | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-WPP | Data Center - Server/Storage Virtualization | No Virtualization | Restaurant | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-WPP | Energy Star - Scanners | Std Scanner | Restaurant | Plug Load | New | measure | 68 | 3.8% | 0.04 | 4 | \$130 | 7% | 0.1 |
| FE-WPP | Energy Star - Scanners | Std Scanner | Restaurant | Plug Load | ROB | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| FE-WPP | Energy Star Dishwasher | Existing Dishwasher units | Restaurant | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,580 | 23% | 1.0 |
| FE-WPP | Energy Star Dishwasher | Standard Dishwasher unit | Restaurant | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 23% | 3.1 |
| FE-WPP | Energy Star Dishwasher | Standard Dishwasher unit | Restaurant | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 23% | 3.1 |
| FE-WPP | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Restaurant | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 17% | 0.2 |
| FE-WPP | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Restaurant | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 1.9 |
| FE-WPP | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Restaurant | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 1.9 |
| FE-WPP | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Restaurant | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 9% | 0.8 |
| FE-WPP | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Restaurant | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.6 |
| FE-WPP | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Restaurant | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.6 |
| FE-WPP | ENERGY STAR® Copiers | 10% Less Efficient Copier | Restaurant | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 18% | 0.0 |
| FE-WPP | ENERGY STAR® Copiers | One Conventional Copier | Restaurant | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| FE-WPP | ENERGY STAR® Copiers | One Conventional Copier | Restaurant | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| FE-WPP | ENERGY STAR® desktop | Standard computer | Restaurant | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 69% | 0.1 |
| FE-WPP | ENERGY STAR® desktop | Standard computer | Restaurant | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.3 |
| FE-WPP | ENERGY STAR® desktop | Standard computer | Restaurant | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.3 |
| FE-WPP | ENERGY STAR® Fax | 10% Less Efficient Fax | Restaurant | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 15% | 0.0 |
| FE-WPP | ENERGY STAR® Fax | One Conventional Fax | Restaurant | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| FE-WPP | ENERGY STAR® Fax | One Conventional Fax | Restaurant | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| FE-WPP | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Restaurant | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 70% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|---|------------|---------------|----------|-------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | ENERGY STAR® Monitors | One Conventional Monitor | Restaurant | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| FE-WPP | ENERGY STAR® Monitors | One Conventional Monitor | Restaurant | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| FE-WPP | ENERGY STAR® Printers | 10% Less Efficient Printer | Restaurant | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 44% | 0.0 |
| FE-WPP | ENERGY STAR® Printers | One Conventional Printer | Restaurant | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| FE-WPP | ENERGY STAR® Printers | One Conventional Printer | Restaurant | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| FE-WPP | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Restaurant | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 43% | 0.1 |
| FE-WPP | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Restaurant | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.7 |
| FE-WPP | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Restaurant | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.7 |
| FE-WPP | ENERGY STAR® Televisions | 10% Less Efficient Television | Restaurant | Plug Load | Early | Unit | 371 | 38% | 0.02 | 6 | \$672 | 40% | 0.1 |
| FE-WPP | ENERGY STAR® Televisions | One Conventional Television | Restaurant | Plug Load | New | Unit | 337 | 32% | 0.02 | 6 | \$206 | 40% | 0.2 |
| FE-WPP | ENERGY STAR® Televisions | One Conventional Television | Restaurant | Plug Load | ROB | Unit | 337 | 32% | 0.02 | 6 | \$206 | 40% | 0.2 |
| FE-WPP | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Restaurant | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 24% | 0.3 |
| FE-WPP | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Restaurant | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.6 |
| FE-WPP | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Restaurant | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.6 |
| FE-WPP | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Restaurant | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 51% | 0.2 |
| FE-WPP | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Restaurant | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 51% | 0.2 |
| FE-WPP | Network PC Power Management | No PC Power Management | Restaurant | Plug Load | Existing | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 5.3 |
| FE-WPP | Network PC Power Management | No PC Power Management | Restaurant | Plug Load | New | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 5.3 |
| FE-WPP | Smart Strip Plug Outlets | Standard plug strip/outlet | Restaurant | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.3 |
| FE-WPP | Smart Strip Plug Outlets | Standard plug strip/outlet | Restaurant | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.3 |
| FE-WPP | Smart Strip Plug Outlets | Standard plug strip/outlet | Restaurant | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-WPP | Smart Strip Plug Outlets | Standard plug strip/outlet | Restaurant | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-WPP | Smart Strip Plug Outlets | Standard plug strip/outlet | Restaurant | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-WPP | Smart Strip Plug Outlets | Standard plug strip/outlet | Restaurant | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-WPP | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Restaurant | Plug Load | Existing | building | 456 | 46% | 0.5 | 5 | \$180 | 3% | 1.2 |
| FE-WPP | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Restaurant | Plug Load | New | building | 456 | 46% | 0.5 | 5 | \$180 | 3% | 1.2 |
| FE-WPP | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Restaurant | Refrigeration | Existing | building | 3,084 | 6.1% | 0.06 | 12 | \$70 | 11% | 1.7 |
| FE-WPP | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Restaurant | Refrigeration | New | building | 3,084 | 6.1% | 0.06 | 12 | \$70 | 11% | 1.7 |
| FE-WPP | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Restaurant | Refrigeration | Existing | building | 3,084 | 0.9% | 0.01 | 12 | \$70 | 11% | 0.3 |
| FE-WPP | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Restaurant | Refrigeration | New | building | 3,084 | 0.9% | 0.01 | 12 | \$70 | 11% | 0.2 |
| FE-WPP | Auto Closer on Refrigerator Door | Door w/out Autocloser | Restaurant | Refrigeration | Existing | building | 8,910 | 8.2% | 0.08 | 8 | \$770 | 40% | 0.3 |
| FE-WPP | Auto Closer on Refrigerator Door | Door w/out Autocloser | Restaurant | Refrigeration | Existing | building | 21,247 | 4.5% | 0.05 | 8 | \$766 | 40% | 0.4 |
| FE-WPP | Auto Closer on Refrigerator Door | Door w/out Autocloser | Restaurant | Refrigeration | New | building | 8,910 | 8.2% | 0.08 | 8 | \$770 | 40% | 0.3 |
| FE-WPP | Auto Closer on Refrigerator Door | Door w/out Autocloser | Restaurant | Refrigeration | New | building | 21,247 | 4.5% | 0.05 | 8 | \$766 | 40% | 0.4 |
| FE-WPP | Demand Hot Gas Defrost | Base Refrigeration System | Restaurant | Refrigeration | Existing | measure | 3,084 | 3.0% | 0.03 | 10 | \$1,386 | 0% | 0.0 |
| FE-WPP | Demand Hot Gas Defrost | Base Refrigeration System | Restaurant | Refrigeration | New | measure | 3,084 | 3.0% | 0.03 | 10 | \$1,386 | 0% | 0.0 |
| FE-WPP | Door Gasket- Freezer | Door w/out Gasket | Restaurant | Refrigeration | Existing | building | 8,910 | 4.4% | 0.04 | 4 | \$79 | 29% | 1.0 |
| FE-WPP | Door Gasket- Freezer | Door w/out Gasket | Restaurant | Refrigeration | New | building | 8,910 | 5.5% | 0.06 | 4 | \$79 | 29% | 1.2 |
| FE-WPP | Door Gasket- Refrigerator | Door w/out Gasket | Restaurant | Refrigeration | Existing | building | 21,247 | 1.7% | 0.02 | 4 | \$106 | 45% | 0.6 |
| FE-WPP | Door Gasket- Refrigerator | Door w/out Gasket | Restaurant | Refrigeration | New | building | 21,247 | 1.7% | 0.02 | 4 | \$106 | 45% | 0.6 |
| FE-WPP | eCube | Refrigeration unit w/out eCube | Restaurant | Refrigeration | Existing | building | 21,247 | 15% | 0.2 | 15 | \$1,946 | 57% | 0.8 |
| FE-WPP | eCube | Refrigeration unit w/out eCube | Restaurant | Refrigeration | New | building | 21,247 | 15% | 0.2 | 15 | \$1,946 | 57% | 0.8 |
| FE-WPP | Efficient compressor motor | Base Refrigeration System - Grocery | Restaurant | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| FE-WPP | Efficient compressor motor | Base Refrigeration System - Grocery | Restaurant | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| FE-WPP | Efficient compressor motor | Base Refrigeration System - Grocery | Restaurant | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| FE-WPP | Efficient compressor motor | Base Refrigeration System - Grocery | Restaurant | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| FE-WPP | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Restaurant | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.5 |
| FE-WPP | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Restaurant | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| FE-WPP | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Restaurant | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| FE-WPP | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Restaurant | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.3 |
| FE-WPP | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Restaurant | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.7 |
| FE-WPP | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Restaurant | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.7 |
| FE-WPP | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Restaurant | Refrigeration | Existing | building | 21,247 | 1.5% | 0.02 | 10 | \$369 | 77% | 0.3 |
| FE-WPP | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Restaurant | Refrigeration | New | building | 21,247 | 1.5% | 0.02 | 10 | \$369 | 77% | 0.3 |
| FE-WPP | Floating head pressure controller | System w/out FHPC | Restaurant | Refrigeration | Existing | building | 8,910 | 2.6% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-WPP | Floating head pressure controller | System w/out FHPC | Restaurant | Refrigeration | Existing | building | 3,084 | 3.2% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| FE-WPP | Floating head pressure controller | System w/out FHPC | Restaurant | Refrigeration | Existing | building | 21,247 | 0.4% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| FE-WPP | Floating head pressure controller | System w/out FHPC | Restaurant | Refrigeration | New | building | 8,910 | 2.6% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-WPP | Floating head pressure controller | System w/out FHPC | Restaurant | Refrigeration | New | building | 21,247 | 0.4% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| FE-WPP | Floating head pressure controller | System w/out FHPC | Restaurant | Refrigeration | New | building | 3,084 | 3.2% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| FE-WPP | High Efficiency Commercial Freezer | Std. Commercial Freezer | Restaurant | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 79% | 0.3 |
| FE-WPP | High Efficiency Commercial Freezer | Std. Commercial Freezer | Restaurant | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 79% | 3.6 |
| FE-WPP | High Efficiency Commercial Freezer | Std. Commercial Freezer | Restaurant | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 79% | 3.6 |
| FE-WPP | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Restaurant | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 79% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|--|--|------------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Restaurant | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 79% | 0.8 |
| FE-WPP | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Restaurant | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 79% | 0.8 |
| FE-WPP | High Efficiency Ice Maker | Existing Standard Efficiency Ice Maker in Pennsylvania | Restaurant | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 69% | 0.1 |
| FE-WPP | High Efficiency Ice Maker | Standard code minimum Ice Maker | Restaurant | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| FE-WPP | High Efficiency Ice Maker | Standard code minimum Ice Maker | Restaurant | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 69% | 0.2 |
| FE-WPP | High Efficiency Ice Making Head | Standard Ice Making Head | Restaurant | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.6 |
| FE-WPP | High Efficiency Ice Making Head | Standard Ice Making Head | Restaurant | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.5 |
| FE-WPP | High R-Value Glass Doors | Base Refrigeration System - Grocery | Restaurant | Refrigeration | Existing | building | 3,084 | 0.7% | 0.01 | 10 | \$53 | 0% | 0.2 |
| FE-WPP | High R-Value Glass Doors | Base Refrigeration System - Grocery | Restaurant | Refrigeration | New | building | 3,084 | 0.7% | 0.01 | 10 | \$53 | 0% | 0.2 |
| FE-WPP | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Restaurant | Refrigeration | Early | Fixture | 373 | 56% | 0.03 | 8 | \$448 | 89% | 0.2 |
| FE-WPP | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Restaurant | Refrigeration | New | Fixture | 291 | 44% | 0.02 | 8 | \$139 | 89% | 0.3 |
| FE-WPP | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Restaurant | Refrigeration | ROB | Fixture | 291 | 44% | 0.02 | 8 | \$139 | 89% | 0.3 |
| FE-WPP | No-heat glass doors | Standard low-temp reach-in | Restaurant | Refrigeration | Existing | building | 3,084 | 20% | 0.2 | 10 | \$4,852 | 8% | 0.1 |
| FE-WPP | No-heat glass doors | Standard low-temp reach-in | Restaurant | Refrigeration | New | building | 3,084 | 20% | 0.2 | 10 | \$4,852 | 8% | 0.1 |
| FE-WPP | Quick acting freezer doors | Std. Freezer Doors | Restaurant | Refrigeration | Existing | building | 8,910 | 13% | 0.1 | 10 | \$2,750 | 56% | 0.2 |
| FE-WPP | Quick acting freezer doors | Std. Freezer Doors | Restaurant | Refrigeration | New | building | 8,910 | 13% | 0.1 | 10 | \$2,750 | 56% | 0.2 |
| FE-WPP | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Restaurant | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 29% | 0.4 |
| FE-WPP | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Restaurant | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 29% | 1.4 |
| FE-WPP | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Restaurant | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 29% | 1.4 |
| FE-WPP | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 29% | 1.5 |
| FE-WPP | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 29% | 2.6 |
| FE-WPP | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 29% | 2.6 |
| FE-WPP | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 29% | 1.5 |
| FE-WPP | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 29% | 3.5 |
| FE-WPP | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 29% | 3.5 |
| FE-WPP | Refrigeration Commissioning | Non-commissioned refrigeration system | Restaurant | Refrigeration | Existing | building | 34,269 | 9.5% | 0.10 | 3 | \$4,759 | 85% | 0.1 |
| FE-WPP | Refrigeration Commissioning | Non-commissioned refrigeration system | Restaurant | Refrigeration | New | building | 34,269 | 9.5% | 0.10 | 3 | \$4,759 | 85% | 0.1 |
| FE-WPP | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Restaurant | Refrigeration | Existing | building | 8,910 | 11% | 0.1 | 4 | \$96 | 22% | 1.9 |
| FE-WPP | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Restaurant | Refrigeration | Existing | building | 21,247 | 2.0% | 0.02 | 4 | \$128 | 22% | 0.6 |
| FE-WPP | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Restaurant | Refrigeration | New | building | 8,910 | 11% | 0.1 | 4 | \$96 | 22% | 1.9 |
| FE-WPP | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Restaurant | Refrigeration | New | building | 21,247 | 2.0% | 0.02 | 4 | \$128 | 22% | 0.6 |
| FE-WPP | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Restaurant | Refrigeration | Existing | building | 8,910 | 2.2% | 0.02 | 11 | \$148 | 77% | 0.6 |
| FE-WPP | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Restaurant | Refrigeration | New | building | 8,910 | 2.2% | 0.02 | 11 | \$148 | 77% | 0.6 |
| FE-WPP | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Restaurant | Refrigeration | Existing | building | 21,247 | 1.6% | 0.02 | 11 | \$148 | 77% | 0.9 |
| FE-WPP | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Restaurant | Refrigeration | New | building | 21,247 | 1.6% | 0.02 | 11 | \$148 | 77% | 0.9 |
| FE-WPP | Vertical Night Covers | Display cases w/out night covers-High Temperature | Restaurant | Refrigeration | Existing | building | 3,084 | 0.1% | 0.00 | 5 | \$38 | 9% | 0.0 |
| FE-WPP | Vertical Night Covers | Display cases w/out night covers-High Temperature | Restaurant | Refrigeration | New | building | 3,084 | 0.1% | 0.00 | 5 | \$38 | 9% | 0.0 |
| FE-WPP | VSD Controlled Compressor | Compressor w/out VSD | Restaurant | Refrigeration | Early | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 73% | 0.1 |
| FE-WPP | VSD Controlled Compressor | Compressor w/out VSD | Restaurant | Refrigeration | New | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 73% | 0.1 |
| FE-WPP | VSD Controlled Compressor | Compressor w/out VSD | Restaurant | Refrigeration | ROB | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 73% | 0.1 |
| FE-WPP | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Restaurant | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$269 | 35% | 0.8 |
| FE-WPP | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Restaurant | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$269 | 35% | 0.8 |
| FE-WPP | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Restaurant | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 2.8 |
| FE-WPP | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Restaurant | Refrigeration | New | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 2.7 |
| FE-WPP | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Restaurant | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 2.8 |
| FE-WPP | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Restaurant | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 2.7 |
| FE-WPP | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 35% | 2.1 |
| FE-WPP | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 35% | 2.0 |
| FE-WPP | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 4.6 |
| FE-WPP | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.3 |
| FE-WPP | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 4.6 |
| FE-WPP | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.3 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Restaurant | Space Heating | Existing | building | 237 | 7.1% | 0.07 | 6 | \$19,530 | 82% | 0.0 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Restaurant | Space Heating | New | building | 237 | 7.1% | 0.07 | 6 | \$19,530 | 82% | 0.0 |
| FE-WPP | Adding window shade film | No shade film | Restaurant | Space Heating | Existing | building | 237 | 1.3% | 0.4 | 10 | \$2.9 | 13% | 84.5 |
| FE-WPP | Adding window shade film | No shade film | Restaurant | Space Heating | New | building | 237 | 1.3% | 0.4 | 10 | \$2.9 | 13% | 84.5 |
| FE-WPP | Adding window shade screen | No shade screen | Restaurant | Space Heating | Existing | building | 237 | 1.1% | 0.01 | 10 | \$1.1 | 13% | 6.7 |
| FE-WPP | Adding window shade screen | No shade screen | Restaurant | Space Heating | New | building | 237 | 1.1% | 0.01 | 10 | \$1.1 | 13% | 6.7 |
| FE-WPP | Automated control system | Manual Controls | Restaurant | Space Heating | Existing | building | 237 | 17% | 0.2 | 15 | \$259 | 51% | 0.6 |
| FE-WPP | Automated control system | Manual Controls | Restaurant | Space Heating | New | building | 237 | 17% | 0.2 | 15 | \$259 | 94% | 0.6 |
| FE-WPP | Ceiling Insulations (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Restaurant | Space Heating | Existing | building | 237 | 8.9% | 0.09 | 15 | \$26,661 | 71% | 0.0 |
| FE-WPP | Ceiling Insulations (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Restaurant | Space Heating | New | building | 237 | 3.0% | 0.03 | 15 | \$25,342 | 94% | 0.0 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Restaurant | Space Heating | Existing | building | 237 | 1.4% | 0.04 | 15 | \$1.9 | 20% | 19.0 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Restaurant | Space Heating | New | building | 237 | 1.4% | 0.04 | 15 | \$1.9 | 10% | 19.0 |
| FE-WPP | Efficient Unit Heating System | Existing Unit Heaters in PA | Restaurant | Space Heating | Early | heater | 34,344 | 23% | 0.06 | 15 | \$3,289 | 83% | 1.1 |
| FE-WPP | Efficient Unit Heating System | Std. Unit Heater | Restaurant | Space Heating | New | heater | 30,481 | 13% | 0.03 | 15 | \$1,991 | 83% | 0.9 |
| FE-WPP | Efficient Unit Heating System | Std. Unit Heater | Restaurant | Space Heating | ROB | heater | 30,481 | 13% | 0.03 | 15 | \$1,991 | 83% | 0.9 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|--|--|------------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Facility Commissioning | No Facility Commissioning | Restaurant | Space Heating | New | building | 237 | 16% | 0.2 | 10 | \$7,882 | 89% | 0.0 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Restaurant | Space Heating | Existing | building | 237 | 7.1% | 0.07 | 15 | \$1,049 | 25% | 0.1 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Restaurant | Space Heating | New | building | 237 | 7.1% | 0.07 | 15 | \$1,049 | 35% | 0.1 |
| FE-WPP | Hi Eff HVAC System Design | No HVAC Design | Restaurant | Space Heating | New | building | 237 | 12% | 0.1 | 10 | \$111,391 | 51% | 0.0 |
| FE-WPP | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Restaurant | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 0.9 |
| FE-WPP | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Restaurant | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 0.9 |
| FE-WPP | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Restaurant | Space Heating | Existing | building | 237 | 3.5% | 0.04 | 10 | \$7,735 | 81% | 0.0 |
| FE-WPP | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Restaurant | Space Heating | New | building | 237 | 3.5% | 0.04 | 10 | \$7,735 | 81% | 0.0 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Restaurant | Space Heating | Existing | building | 237 | 3.6% | 0.04 | 11 | \$286 | 49% | 0.1 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Restaurant | Space Heating | New | building | 237 | 3.1% | 0.03 | 11 | \$146 | 49% | 0.2 |
| FE-WPP | Re-Commissioning (Existing Construction) | No Re-Commissioning | Restaurant | Space Heating | Existing | building | 237 | 16% | 0.2 | 5 | \$12,732 | 86% | 0.0 |
| FE-WPP | VFD on Cooling Tower Fan | Motor w/out VFD | Restaurant | Space Heating | Early | motor | 18,724 | 70% | 3.4 | 15 | \$2,843 | 88% | 3.2 |
| FE-WPP | VFD on Cooling Tower Fan | Motor w/out VFD | Restaurant | Space Heating | New | motor | 18,373 | 72% | 3.3 | 15 | \$2,843 | 88% | 3.1 |
| FE-WPP | VFD on Cooling Tower Fan | Motor w/out VFD | Restaurant | Space Heating | ROB | motor | 18,373 | 72% | 3.3 | 15 | \$2,843 | 88% | 3.1 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Restaurant | Space Heating | Existing | building | 237 | 12% | 0.1 | 15 | \$6,404 | 26% | 0.0 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Restaurant | Space Heating | New | building | 237 | 0.5% | 0.01 | 15 | \$4,912 | 94% | 0.0 |
| FE-WPP | Green LED Traffic Light | Green Incandescent Traffic Light | Restaurant | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 0% | 1.1 |
| FE-WPP | Green LED Traffic Light | Green Incandescent Traffic Light | Restaurant | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| FE-WPP | Green LED Traffic Light | Green Incandescent Traffic Light | Restaurant | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| FE-WPP | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Restaurant | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 0% | 2.8 |
| FE-WPP | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Restaurant | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-WPP | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Restaurant | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-WPP | Induction Street Lighting | One 100W HPS Street Light Fixture | Restaurant | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 0% | 0.3 |
| FE-WPP | Induction Street Lighting | One 100W HPS Street Light Fixture | Restaurant | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.6 |
| FE-WPP | Induction Street Lighting | One 100W HPS Street Light Fixture | Restaurant | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.6 |
| FE-WPP | LED Street Lighting | One 100W HPS Street Light | Restaurant | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 0% | 0.2 |
| FE-WPP | LED Street Lighting | One 100W HPS Street Light | Restaurant | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-WPP | LED Street Lighting | One 100W HPS Street Light | Restaurant | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-WPP | Red LED Traffic Light | One Red Incandescent Traffic Light | Restaurant | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 0% | 1.5 |
| FE-WPP | Red LED Traffic Light | One Red Incandescent Traffic Light | Restaurant | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| FE-WPP | Red LED Traffic Light | One Red Incandescent Traffic Light | Restaurant | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| FE-WPP | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Restaurant | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 0% | 0.1 |
| FE-WPP | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Restaurant | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-WPP | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Restaurant | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-WPP | Demand controlled Circulating Systems | Constant circulation system | Restaurant | Water Heating | Existing | building | 1,248 | 20% | 0.2 | 15 | \$227 | 59% | 1.3 |
| FE-WPP | Demand controlled Circulating Systems | Constant circulation system | Restaurant | Water Heating | New | building | 1,248 | 20% | 0.2 | 15 | \$227 | 59% | 1.3 |
| FE-WPP | Drainwater Heat Recovery Water Heater | No heat recovery | Restaurant | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.7 |
| FE-WPP | Drainwater Heat Recovery Water Heater | No heat recovery | Restaurant | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.7 |
| FE-WPP | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Restaurant | Water Heating | Existing | building | 1,248 | 5.9% | 0.06 | 12 | \$14 | 85% | 5.3 |
| FE-WPP | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Restaurant | Water Heating | New | building | 1,248 | 5.9% | 0.06 | 12 | \$4.0 | 85% | 18.4 |
| FE-WPP | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Restaurant | Water Heating | Early | water heater | 179,161 | 66% | 21.0 | 10 | \$7,124 | 68% | 7.7 |
| FE-WPP | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Restaurant | Water Heating | Early | water heater | 179,161 | 66% | 21.0 | 10 | \$7,124 | 68% | 7.7 |
| FE-WPP | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Restaurant | Water Heating | New | water heater | 179,161 | 66% | 21.0 | 10 | \$7,124 | 68% | 7.7 |
| FE-WPP | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Restaurant | Water Heating | New | water heater | 179,161 | 66% | 21.0 | 10 | \$7,124 | 68% | 7.7 |
| FE-WPP | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Restaurant | Water Heating | ROB | water heater | 174,184 | 65% | 20.1 | 10 | \$7,124 | 68% | 7.4 |
| FE-WPP | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Restaurant | Water Heating | ROB | water heater | 174,184 | 65% | 20.1 | 10 | \$7,124 | 68% | 7.4 |
| FE-WPP | Heat Recovery Unit | Base Water Heating | Restaurant | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.5 |
| FE-WPP | Heat Recovery Unit | Base Water Heating | Restaurant | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.5 |
| FE-WPP | Heat Trap | No Heat Trap | Restaurant | Water Heating | Existing | building | 1,248 | 1.0% | 0.01 | 11 | \$0.2 | 50% | 49.1 |
| FE-WPP | Heat Trap | No Heat Trap | Restaurant | Water Heating | New | building | 1,248 | 1.0% | 0.01 | 11 | \$0.1 | 50% | 128.3 |
| FE-WPP | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Restaurant | Water Heating | Early | water heater | 179,161 | 5.9% | 1.9 | 15 | \$1,842 | 79% | 3.7 |
| FE-WPP | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Restaurant | Water Heating | Early | water heater | 179,161 | 5.9% | 1.9 | 15 | \$1,842 | 79% | 3.7 |
| FE-WPP | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Restaurant | Water Heating | New | water heater | 174,184 | 3.2% | 1.0 | 15 | \$1,842 | 79% | 2.0 |
| FE-WPP | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Restaurant | Water Heating | New | water heater | 174,184 | 3.2% | 1.0 | 15 | \$1,842 | 79% | 2.0 |
| FE-WPP | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Restaurant | Water Heating | ROB | water heater | 174,184 | 3.2% | 1.0 | 15 | \$1,842 | 79% | 2.0 |
| FE-WPP | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Restaurant | Water Heating | ROB | water heater | 174,184 | 3.2% | 1.0 | 15 | \$1,842 | 79% | 2.0 |
| FE-WPP | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Restaurant | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$466 | 81% | 36.2 |
| FE-WPP | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Restaurant | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 18.8 |
| FE-WPP | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Restaurant | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 18.9 |
| FE-WPP | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Restaurant | Water Heating | Existing | building | 1,248 | 3.0% | 0.03 | 13 | \$5.5 | 68% | 7.2 |
| FE-WPP | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Restaurant | Water Heating | New | building | 1,248 | 3.0% | 0.03 | 13 | \$5.5 | 0% | 7.2 |
| FE-WPP | Hot Water Circulation Pump Time-Clock | Constant circulation system | Restaurant | Water Heating | Existing | building | 1,248 | 5.3% | 0.05 | 10 | \$5.0 | 72% | 11.5 |
| FE-WPP | Hot Water Circulation Pump Time-Clock | Constant circulation system | Restaurant | Water Heating | New | building | 1,248 | 5.3% | 0.05 | 10 | \$5.0 | 72% | 11.5 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|--|---|------------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Restaurant | Water Heating | Existing | building | 1,148 | 0.1% | 0.00 | 7 | \$22 | 78% | 0.0 |
| FE-WPP | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Restaurant | Water Heating | New | building | 1,148 | 6.6% | 0.07 | 7 | \$0.5 | 78% | 106.2 |
| FE-WPP | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Restaurant | Water Heating | Existing | building | 1,248 | 13% | 0.1 | 5 | \$300 | 80% | 0.3 |
| FE-WPP | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Restaurant | Water Heating | New | building | 1,248 | 13% | 0.1 | 5 | \$194 | 80% | 0.4 |
| FE-WPP | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Restaurant | Water Heating | Existing | building | 1,248 | 6.5% | 0.07 | 9 | \$25 | 2% | 2.6 |
| FE-WPP | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Restaurant | Water Heating | New | building | 1,248 | 6.5% | 0.07 | 9 | \$6.0 | 2% | 11.0 |
| FE-WPP | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Restaurant | Water Heating | Early | water heater | 179,161 | 52% | 7.6 | 15 | \$37,332 | 32% | 1.4 |
| FE-WPP | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Restaurant | Water Heating | New | water heater | 174,184 | 51% | 7.2 | 15 | \$37,332 | 32% | 1.3 |
| FE-WPP | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Restaurant | Water Heating | ROB | water heater | 174,184 | 51% | 7.2 | 15 | \$37,332 | 32% | 1.3 |
| FE-WPP | Ultrasonic Faucet Control | Manual Faucet Control | Restaurant | Water Heating | Existing | building | 1,248 | 3.0% | 0.03 | 10 | \$216 | 77% | 0.2 |
| FE-WPP | Ultrasonic Faucet Control | Manual Faucet Control | Restaurant | Water Heating | New | building | 1,248 | 3.0% | 0.03 | 10 | \$216 | 77% | 0.2 |
| FE-WPP | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Restaurant | Water Heating | Existing | building | 1,248 | 2.2% | 0.02 | 4 | \$28 | 83% | 0.4 |
| FE-WPP | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Restaurant | Water Heating | New | building | 1,248 | 2.3% | 0.02 | 4 | \$28 | 83% | 0.4 |
| FE-WPP | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Retail | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.0 |
| FE-WPP | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Retail | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.0 |
| FE-WPP | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Retail | Cooking | Early | steamer | 51 | 46% | 0.00 | 12 | \$5,053 | 81% | 0.0 |
| FE-WPP | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Retail | Cooking | New | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-WPP | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Retail | Cooking | ROB | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-WPP | Electric combination oven (Energy Star) | Standard Oven | Retail | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.8 |
| FE-WPP | Electric combination oven (Energy Star) | Standard Oven | Retail | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.8 |
| FE-WPP | Electric Convection Oven | Conventional convection oven w/ 65% efficiency | Retail | Cooking | Early | oven | 8,641 | 37% | 0.6 | 12 | \$4,119 | 81% | 0.4 |
| FE-WPP | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Retail | Cooking | New | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.7 |
| FE-WPP | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Retail | Cooking | ROB | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.7 |
| FE-WPP | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Retail | Cooking | Early | fryer | 6,105 | 23% | 0.3 | 12 | \$9,241 | 86% | 0.1 |
| FE-WPP | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Retail | Cooking | New | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| FE-WPP | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Retail | Cooking | ROB | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| FE-WPP | High Efficiency Griddle (ENERGY STAR) | Efficiency code minimum griddle (70% eff) | Retail | Cooking | Early | griddle | 11,317 | 65% | 1.4 | 12 | \$4,977 | 86% | 0.8 |
| FE-WPP | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Retail | Cooking | New | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.1 |
| FE-WPP | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Retail | Cooking | ROB | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.1 |
| FE-WPP | High Efficiency Induction Cooking | Standard Cooking | Retail | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-WPP | High Efficiency Induction Cooking | Standard Cooking | Retail | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Retail | Cooling Central | Existing | building | 3,712 | 7.0% | 0.07 | 6 | \$14,374 | 82% | 0.0 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Retail | Cooling Central | New | building | 3,712 | 7.0% | 0.07 | 6 | \$14,374 | 82% | 0.0 |
| FE-WPP | Adding window shade film | No shade film | Retail | Cooling Central | Existing | building | 3,712 | 1.3% | 0.4 | 10 | \$45 | 13% | 5.7 |
| FE-WPP | Adding window shade film | No shade film | Retail | Cooling Central | New | building | 3,712 | 1.3% | 0.4 | 10 | \$45 | 13% | 5.7 |
| FE-WPP | Adding window shade screen | No shade screen | Retail | Cooling Central | Existing | building | 3,712 | 1.1% | 0.01 | 10 | \$17 | 13% | 1.2 |
| FE-WPP | Adding window shade screen | No shade screen | Retail | Cooling Central | New | building | 3,712 | 1.0% | 0.01 | 10 | \$17 | 13% | 1.2 |
| FE-WPP | Automated control system | Manual Controls | Retail | Cooling Central | Existing | building | 3,712 | 17% | 0.2 | 15 | \$4,064 | 51% | 0.1 |
| FE-WPP | Automated control system | Manual Controls | Retail | Cooling Central | New | building | 3,712 | 17% | 0.2 | 15 | \$4,064 | 94% | 0.1 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Retail | Cooling Central | Existing | building | 3,712 | 4.9% | 0.05 | 15 | \$19,662 | 71% | 0.0 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Retail | Cooling Central | New | building | 3,712 | 1.6% | 0.02 | 15 | \$18,689 | 94% | 0.0 |
| FE-WPP | Chiller Tuneup/Diagnostics | No tuneup | Retail | Cooling Central | Existing | building | 3,712 | 8.0% | 0.08 | 10 | \$9,478 | 59% | 0.0 |
| FE-WPP | Chiller Tuneup/Diagnostics | No tuneup | Retail | Cooling Central | New | building | 3,712 | 8.0% | 0.08 | 10 | \$9,478 | 59% | 0.0 |
| FE-WPP | Cooling Tower Optimization | No Cooling Tower Optimization | Retail | Cooling Central | Existing | building | 3,712 | 20% | 0.2 | 10 | \$23 | 69% | 16.9 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Retail | Cooling Central | Existing | building | 3,712 | 1.4% | 0.04 | 15 | \$29 | 20% | 2.0 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Retail | Cooling Central | New | building | 3,712 | 1.4% | 0.04 | 15 | \$29 | 10% | 2.0 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Retail | Cooling Central | Existing | building | 3,712 | 7.0% | 0.07 | 15 | \$16,465 | 25% | 0.0 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Retail | Cooling Central | New | building | 3,712 | 7.0% | 0.07 | 15 | \$16,465 | 35% | 0.0 |
| FE-WPP | Hi Eff HVAC System Design | No HVAC Design | Retail | Cooling Central | New | building | 3,712 | 11% | 0.1 | 10 | \$176,830 | 51% | 0.0 |
| FE-WPP | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Retail | Cooling Central | Early | ton | 8,181 | 24% | 0.7 | 15 | \$108,550 | 88% | 0.0 |
| FE-WPP | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Retail | Cooling Central | New | ton | 6,688 | 6.7% | 0.2 | 15 | \$12,927 | 88% | 0.0 |
| FE-WPP | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Retail | Cooling Central | ROB | ton | 6,688 | 6.7% | 0.2 | 15 | \$12,927 | 88% | 0.0 |
| FE-WPP | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Retail | Cooling Central | Early | ton | 12,225 | 23% | 1.0 | 15 | \$140,105 | 88% | 0.0 |
| FE-WPP | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Retail | Cooling Central | New | ton | 9,835 | 4.8% | 0.2 | 15 | \$9,336 | 88% | 0.0 |
| FE-WPP | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Retail | Cooling Central | ROB | ton | 9,835 | 4.9% | 0.2 | 15 | \$9,336 | 88% | 0.0 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Retail | Cooling Central | Early | ton | 100,076 | 26% | 9.0 | 15 | \$105,354 | 88% | 0.2 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Retail | Cooling Central | New | ton | 87,195 | 15% | 4.5 | 15 | \$30,530 | 88% | 0.3 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Retail | Cooling Central | ROB | ton | 87,195 | 15% | 4.5 | 15 | \$30,530 | 88% | 0.3 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Retail | Cooling Central | Early | ton | 149,886 | 23% | 11.9 | 15 | \$154,107 | 88% | 0.2 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Retail | Cooling Central | New | ton | 137,689 | 16% | 7.7 | 15 | \$27,646 | 88% | 0.6 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|--|--|---------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Retail | Cooling Central | ROB | ton | 149,886 | 23% | 11.9 | 15 | \$27,646 | 88% | 1.0 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Retail | Cooling Central | Early | ton | 248,933 | 23% | 19.5 | 15 | \$302,924 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Retail | Cooling Central | New | ton | 225,302 | 14% | 11.3 | 15 | \$115,432 | 88% | 0.2 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Retail | Cooling Central | ROB | ton | 248,933 | 23% | 19.5 | 15 | \$115,432 | 88% | 0.4 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Retail | Cooling Central | Early | ton | 298,720 | 23% | 23.4 | 15 | \$350,154 | 88% | 0.2 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Retail | Cooling Central | New | ton | 270,362 | 14% | 13.6 | 15 | \$120,406 | 88% | 0.3 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Retail | Cooling Central | ROB | ton | 298,720 | 23% | 23.4 | 15 | \$120,406 | 88% | 0.4 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Retail | Cooling Central | Early | ton | 66,214 | 29% | 6.7 | 15 | \$83,632 | 88% | 0.2 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Retail | Cooling Central | New | ton | 51,414 | 8.9% | 1.6 | 15 | \$40,211 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Retail | Cooling Central | ROB | ton | 66,214 | 29% | 6.7 | 15 | \$40,211 | 88% | 0.4 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Retail | Cooling Central | Early | ton | 113,772 | 35% | 13.8 | 15 | \$132,173 | 88% | 0.2 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Retail | Cooling Central | New | ton | 84,854 | 13% | 3.7 | 15 | \$39,556 | 88% | 0.2 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Retail | Cooling Central | ROB | ton | 84,854 | 13% | 3.7 | 15 | \$39,556 | 88% | 0.2 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Retail | Cooling Central | Early | ton | 189,951 | 39% | 25.8 | 15 | \$187,029 | 88% | 0.3 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Retail | Cooling Central | New | ton | 135,432 | 15% | 6.9 | 15 | \$33,554 | 88% | 0.5 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Retail | Cooling Central | ROB | ton | 189,951 | 39% | 25.8 | 15 | \$33,554 | 88% | 1.8 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Retail | Cooling Central | Early | ton | 33,239 | 30% | 3.4 | 15 | \$32,398 | 88% | 0.2 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Retail | Cooling Central | New | ton | 26,334 | 11% | 1.0 | 15 | \$7,188 | 88% | 0.3 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Retail | Cooling Central | ROB | ton | 33,239 | 30% | 3.4 | 15 | \$7,188 | 88% | 1.1 |
| FE-WPP | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Retail | Cooling Central | Existing | building | 3,712 | 2.3% | 0.02 | 10 | \$1,539 | 81% | 0.0 |
| FE-WPP | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Retail | Cooling Central | New | building | 3,712 | 2.3% | 0.02 | 10 | \$1,539 | 81% | 0.0 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Retail | Cooling Central | Existing | building | 3,712 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.1 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Retail | Cooling Central | New | building | 3,712 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.2 |
| FE-WPP | Re-Commissioning (Existing Construction) | No Re-Commissioning | Retail | Cooling Central | Existing | building | 3,712 | 16% | 0.2 | 5 | \$8,051 | 86% | 0.0 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Retail | Cooling Central | Existing | building | 3,712 | 8.1% | 0.08 | 15 | \$5,499 | 26% | 0.0 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Retail | Cooling Central | New | building | 3,712 | 0.3% | 0.00 | 15 | \$4,218 | 94% | 0.0 |
| FE-WPP | <65k BTU/hr 14 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Retail | Cooling Unitary | Early | ton | 2,494 | 16% | 0.3 | 15 | \$1,545 | 29% | 0.3 |
| FE-WPP | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Retail | Cooling Unitary | New | ton | 2,259 | 7.1% | 0.1 | 15 | \$339 | 29% | 0.5 |
| FE-WPP | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Retail | Cooling Unitary | ROB | ton | 2,259 | 7.1% | 0.1 | 15 | \$339 | 29% | 0.5 |
| FE-WPP | <65k BTU/hr 15 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Retail | Cooling Unitary | Early | ton | 2,494 | 22% | 0.4 | 15 | \$1,821 | 30% | 0.3 |
| FE-WPP | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Retail | Cooling Unitary | New | ton | 2,259 | 13% | 0.2 | 15 | \$714 | 30% | 0.5 |
| FE-WPP | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Retail | Cooling Unitary | ROB | ton | 2,259 | 13% | 0.2 | 15 | \$714 | 30% | 0.5 |
| FE-WPP | <65k BTU/hr 16 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Retail | Cooling Unitary | Early | ton | 2,494 | 26% | 0.5 | 15 | \$2,098 | 31% | 0.3 |
| FE-WPP | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Retail | Cooling Unitary | New | ton | 2,259 | 19% | 0.3 | 15 | \$1,089 | 31% | 0.4 |
| FE-WPP | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Retail | Cooling Unitary | ROB | ton | 2,259 | 19% | 0.3 | 15 | \$1,089 | 31% | 0.4 |
| FE-WPP | >760k min 10.2 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Retail | Cooling Unitary | Early | ton | 63,099 | 3.7% | 1.6 | 15 | \$68,066 | 56% | 0.0 |
| FE-WPP | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Retail | Cooling Unitary | New | ton | 63,908 | 4.9% | 2.2 | 15 | \$6,231 | 56% | 0.5 |
| FE-WPP | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Retail | Cooling Unitary | ROB | ton | 63,908 | 4.9% | 2.2 | 15 | \$6,231 | 56% | 0.5 |
| FE-WPP | 135-240k min 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Retail | Cooling Unitary | Early | ton | 15,526 | 18% | 1.9 | 15 | \$18,135 | 79% | 0.2 |
| FE-WPP | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Retail | Cooling Unitary | New | ton | 14,123 | 10.0% | 1.0 | 15 | \$1,948 | 79% | 0.8 |
| FE-WPP | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Retail | Cooling Unitary | ROB | ton | 14,123 | 10.0% | 1.0 | 15 | \$1,948 | 79% | 0.8 |
| FE-WPP | 240k-760k min 11 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Retail | Cooling Unitary | Early | ton | 41,512 | 9.0% | 2.6 | 15 | \$44,809 | 66% | 0.1 |
| FE-WPP | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Retail | Cooling Unitary | New | ton | 41,616 | 9.3% | 2.7 | 15 | \$4,813 | 66% | 0.9 |
| FE-WPP | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Retail | Cooling Unitary | ROB | ton | 41,616 | 9.3% | 2.7 | 15 | \$4,813 | 66% | 0.9 |
| FE-WPP | 65k-135k BTU/hr 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Retail | Cooling Unitary | Early | ton | 9,152 | 17% | 1.1 | 15 | \$10,946 | 86% | 0.2 |
| FE-WPP | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Retail | Cooling Unitary | New | ton | 8,157 | 6.7% | 0.4 | 15 | \$1,392 | 86% | 0.4 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|---|---------|-----------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Retail | Cooling Unitary | ROB | ton | 8,157 | 6.7% | 0.4 | 15 | \$1,392 | 86% | 0.4 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Retail | Cooling Unitary | Existing | building | 34,438 | 7.0% | 0.07 | 6 | \$14,374 | 82% | 0.0 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Retail | Cooling Unitary | New | building | 34,438 | 7.1% | 0.07 | 6 | \$14,374 | 82% | 0.0 |
| FE-WPP | Adding window shade film | No shade film | Retail | Cooling Unitary | Existing | building | 34,438 | 1.3% | 0.4 | 10 | \$419 | 12% | 1.0 |
| FE-WPP | Adding window shade film | No shade film | Retail | Cooling Unitary | New | building | 34,438 | 1.3% | 0.4 | 10 | \$419 | 13% | 1.0 |
| FE-WPP | Adding window shade screen | No shade screen | Retail | Cooling Unitary | Existing | building | 34,438 | 1.1% | 0.01 | 10 | \$162 | 12% | 0.8 |
| FE-WPP | Adding window shade screen | No shade screen | Retail | Cooling Unitary | New | building | 34,438 | 1.1% | 0.01 | 10 | \$162 | 13% | 0.8 |
| FE-WPP | Automated control system | Manual Controls | Retail | Cooling Unitary | Existing | building | 34,438 | 17% | 0.2 | 15 | \$37,701 | 51% | 0.1 |
| FE-WPP | Automated control system | Manual Controls | Retail | Cooling Unitary | New | building | 34,438 | 17% | 0.2 | 15 | \$37,701 | 94% | 0.1 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Retail | Cooling Unitary | Existing | building | 34,438 | 4.9% | 0.05 | 15 | \$19,662 | 71% | 0.0 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Retail | Cooling Unitary | New | building | 34,438 | 1.6% | 0.02 | 15 | \$18,689 | 94% | 0.0 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Retail | Cooling Unitary | Existing | building | 34,438 | 1.4% | 0.04 | 15 | \$274 | 20% | 1.0 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Retail | Cooling Unitary | New | building | 34,438 | 1.4% | 0.04 | 15 | \$274 | 10% | 1.0 |
| FE-WPP | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Retail | Cooling Unitary | Existing | building | 18,941 | 13% | 0.1 | 1 | \$182 | 73% | 0.7 |
| FE-WPP | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Retail | Cooling Unitary | New | building | 18,941 | 13% | 0.1 | 1 | \$182 | 73% | 0.7 |
| FE-WPP | ECM Motors for split systems | Std Shaded Pole Motor | Retail | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.7 |
| FE-WPP | ECM Motors for split systems | Std Shaded Pole Motor | Retail | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.7 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Retail | Cooling Unitary | Existing | building | 34,438 | 7.1% | 0.07 | 15 | \$152,757 | 25% | 0.0 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Retail | Cooling Unitary | New | building | 34,438 | 7.0% | 0.07 | 15 | \$152,757 | 35% | 0.0 |
| FE-WPP | Hi Eff HVAC System Design | No HVAC Design | Retail | Cooling Unitary | New | building | 34,438 | 11% | 0.1 | 10 | \$15,410 | 51% | 0.1 |
| FE-WPP | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Retail | Cooling Unitary | Existing | building | 34,438 | 5.0% | 0.05 | 5 | \$225 | 59% | 1.6 |
| FE-WPP | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Retail | Cooling Unitary | Existing | building | 34,438 | 0.8% | 0.1 | 5 | \$225 | 51% | 0.4 |
| FE-WPP | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Retail | Cooling Unitary | New | building | 34,438 | 0.7% | 0.09 | 5 | \$135 | 51% | 0.6 |
| FE-WPP | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Retail | Cooling Unitary | Existing | building | 34,438 | 2.3% | 0.02 | 10 | \$1,654 | 86% | 0.2 |
| FE-WPP | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Retail | Cooling Unitary | New | building | 34,438 | 2.3% | 0.02 | 10 | \$1,654 | 86% | 0.2 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) | Retail | Cooling Unitary | Existing | building | 34,438 | 2.0% | 0.02 | 11 | \$286 | 49% | 1.0 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Retail | Cooling Unitary | New | building | 34,438 | 1.7% | 0.02 | 11 | \$146 | 49% | 1.6 |
| FE-WPP | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Retail | Cooling Unitary | Early | unit | 3,238 | 19% | 0.1 | 15 | \$849 | 85% | 0.5 |
| FE-WPP | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Retail | Cooling Unitary | New | unit | 3,271 | 20% | 0.1 | 15 | \$356 | 85% | 1.2 |
| FE-WPP | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Retail | Cooling Unitary | ROB | unit | 3,271 | 20% | 0.1 | 15 | \$356 | 85% | 1.2 |
| FE-WPP | Re-Commissioning (Existing Construction) | No Re-Commissioning | Retail | Cooling Unitary | Existing | building | 34,438 | 16% | 0.2 | 5 | \$8,051 | 86% | 0.1 |
| FE-WPP | Room AC (w/ louvered sides) | Exisiting efficiency Room AC in Pennsylvania (2000 Federal Standards) | Retail | Cooling Unitary | Early | ton | 1,061 | 13% | 0.05 | 9 | \$348 | 82% | 0.2 |
| FE-WPP | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Retail | Cooling Unitary | New | ton | 962 | 4.5% | 0.01 | 9 | \$17 | 82% | 1.3 |
| FE-WPP | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Retail | Cooling Unitary | ROB | ton | 962 | 4.5% | 0.01 | 9 | \$17 | 82% | 1.3 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Retail | Cooling Unitary | Existing | building | 34,438 | 8.1% | 0.08 | 15 | \$5,499 | 26% | 0.3 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Retail | Cooling Unitary | New | building | 34,438 | 0.3% | 0.00 | 15 | \$4,218 | 94% | 0.0 |
| FE-WPP | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Retail | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 1.0 |
| FE-WPP | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Retail | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.3 |
| FE-WPP | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Retail | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.3 |
| FE-WPP | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Retail | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 0% | 0.2 |
| FE-WPP | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Retail | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-WPP | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Retail | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-WPP | LED exterior lighting | 250 Watt Incandescent | Retail | Ext. Lighting | ROB | measure | 475 | 83% | 0.1 | 15 | \$104 | 89% | 2.7 |
| FE-WPP | LED exterior lighting | 250 Watt Incandescent | Retail | Ext. Lighting | ROB | measure | 431 | 83% | 0.1 | 15 | \$104 | 89% | 2.5 |
| FE-WPP | LED exterior lighting | 250 Watt Incandescent | Retail | Ext. Lighting | ROB | measure | 431 | 83% | 0.1 | 15 | \$104 | 89% | 2.5 |
| FE-WPP | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Retail | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 75% | 0.3 |
| FE-WPP | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Retail | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 75% | 0.2 |
| FE-WPP | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Retail | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.6 |
| FE-WPP | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Retail | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.0 |
| FE-WPP | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Retail | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.6 |
| FE-WPP | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Retail | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.0 |
| FE-WPP | Photocell Controls (Outdoor) | Lighting w/ No Controls | Retail | Ext. Lighting | Existing | building | 246 | 28% | 0.3 | 8 | \$1,459 | 88% | 0.1 |
| FE-WPP | Photocell Controls (Outdoor) | Lighting w/ No Controls | Retail | Ext. Lighting | New | building | 246 | 28% | 0.3 | 8 | \$1,459 | 0% | 0.1 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Retail | Heat Pump | Existing | building | 3,503 | 6.9% | 0.07 | 6 | \$14,374 | 82% | 0.0 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Retail | Heat Pump | New | building | 3,503 | 6.9% | 0.07 | 6 | \$14,374 | 82% | 0.0 |
| FE-WPP | Adding window shade film | No shade film | Retail | Heat Pump | Existing | building | 3,503 | 3.9% | 0.4 | 10 | \$43 | 12% | 6.8 |
| FE-WPP | Adding window shade film | No shade film | Retail | Heat Pump | New | building | 3,503 | 3.9% | 0.4 | 10 | \$43 | 12% | 6.8 |
| FE-WPP | Adding window shade screen | No shade screen | Retail | Heat Pump | Existing | building | 3,503 | 0.3% | 0.01 | 10 | \$5.5 | 12% | 1.9 |
| FE-WPP | Adding window shade screen | No shade screen | Retail | Heat Pump | New | building | 3,503 | 0.3% | 0.01 | 10 | \$5.5 | 12% | 1.9 |
| FE-WPP | Automated control system | Manual Controls | Retail | Heat Pump | Existing | building | 3,503 | 17% | 0.2 | 15 | \$3,835 | 51% | 0.1 |
| FE-WPP | Automated control system | Manual Controls | Retail | Heat Pump | New | building | 3,503 | 17% | 0.2 | 15 | \$3,835 | 94% | 0.1 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Retail | Heat Pump | Existing | building | 3,503 | 4.9% | 0.05 | 15 | \$19,662 | 71% | 0.0 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Retail | Heat Pump | New | building | 3,503 | 1.6% | 0.02 | 15 | \$18,689 | 94% | 0.0 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Retail | Heat Pump | Existing | building | 3,503 | 4.0% | 0.04 | 15 | \$28 | 12% | 3.6 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Retail | Heat Pump | New | building | 3,503 | 4.0% | 0.04 | 15 | \$28 | 6% | 3.6 |
| FE-WPP | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Retail | Heat Pump | Early | heat pump | 1,805 | 13% | 0.02 | 15 | \$4,070 | 83% | 0.0 |
| FE-WPP | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Retail | Heat Pump | New | heat pump | 1,712 | 7.7% | 0.01 | 15 | \$1,097 | 83% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|--|--|---------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Retail | Heat Pump | ROB | heat pump | 1,712 | 7.7% | 0.01 | 15 | \$1,097 | 83% | 0.1 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Retail | Heat Pump | Existing | building | 3,503 | 7.0% | 0.07 | 15 | \$15,538 | 25% | 0.0 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Retail | Heat Pump | New | building | 3,503 | 7.0% | 0.07 | 15 | \$15,538 | 35% | 0.0 |
| FE-WPP | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Retail | Heat Pump | Early | heat pump | 18,787 | 17% | 0.3 | 15 | \$91,117 | 19% | 0.0 |
| FE-WPP | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Retail | Heat Pump | New | heat pump | 18,021 | 14% | 0.2 | 15 | \$33,927 | 19% | 0.0 |
| FE-WPP | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Retail | Heat Pump | ROB | heat pump | 18,021 | 14% | 0.2 | 15 | \$33,927 | 19% | 0.0 |
| FE-WPP | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Retail | Heat Pump | Early | heat pump | 18,787 | 17% | 0.3 | 15 | \$58,356 | 19% | 0.0 |
| FE-WPP | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Retail | Heat Pump | New | heat pump | 18,021 | 14% | 0.2 | 15 | \$1,167 | 19% | 1.2 |
| FE-WPP | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Retail | Heat Pump | ROB | heat pump | 18,021 | 14% | 0.2 | 15 | \$1,167 | 19% | 1.2 |
| FE-WPP | Hi Eff HVAC System Design | No HVAC Design | Retail | Heat Pump | New | building | 3,503 | 11% | 0.1 | 10 | \$176,830 | 51% | 0.0 |
| FE-WPP | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Retail | Heat Pump | Early | heat pump | 4,814 | 17% | 0.07 | 12 | \$4,298 | 81% | 0.1 |
| FE-WPP | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Retail | Heat Pump | New | heat pump | 4,565 | 13% | 0.05 | 12 | \$852 | 81% | 0.3 |
| FE-WPP | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Retail | Heat Pump | ROB | heat pump | 4,565 | 13% | 0.05 | 12 | \$852 | 81% | 0.3 |
| FE-WPP | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Retail | Heat Pump | Existing | building | 3,503 | 5.0% | 0.02 | 5 | \$90 | 51% | 0.4 |
| FE-WPP | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Retail | Heat Pump | New | building | 3,503 | 5.0% | 0.02 | 5 | \$90 | 51% | 0.4 |
| FE-WPP | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Retail | Heat Pump | Existing | building | 3,503 | 2.3% | 0.02 | 10 | \$1,473 | 81% | 0.0 |
| FE-WPP | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Retail | Heat Pump | New | building | 3,503 | 2.3% | 0.02 | 10 | \$1,473 | 81% | 0.0 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Retail | Heat Pump | Existing | building | 3,503 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.2 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Retail | Heat Pump | New | building | 3,503 | 2.1% | 0.02 | 11 | \$146 | 49% | 0.3 |
| FE-WPP | Re-Commissioning (Existing Construction) | No Re-Commissioning | Retail | Heat Pump | Existing | building | 3,503 | 16% | 0.2 | 5 | \$8,051 | 86% | 0.0 |
| FE-WPP | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Retail | Heat Pump | New | measure | 679,680 | 2.0% | 1.6 | 13 | \$85,564 | 43% | 0.1 |
| FE-WPP | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Retail | Heat Pump | ROB | measure | 679,680 | 2.0% | 1.6 | 13 | \$85,564 | 43% | 0.1 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Retail | Heat Pump | Existing | building | 3,503 | 8.1% | 0.08 | 15 | \$5,499 | 26% | 0.0 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Retail | Heat Pump | New | building | 3,503 | 0.3% | 0.00 | 15 | \$4,218 | 94% | 0.0 |
| FE-WPP | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Retail | Heat Pump | Early | heat pump | 7,633 | 33% | 0.2 | 15 | \$35,347 | 28% | 0.0 |
| FE-WPP | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Retail | Heat Pump | New | heat pump | 7,197 | 29% | 0.2 | 15 | \$15,739 | 28% | 0.1 |
| FE-WPP | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Retail | Heat Pump | ROB | heat pump | 7,197 | 29% | 0.2 | 15 | \$15,739 | 28% | 0.1 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Retail | High Bay Lighting | Early | Fixture | 614 | 9.6% | 0.02 | 13 | \$850 | 39% | 0.0 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Retail | High Bay Lighting | Early | Fixture | 613 | 9.5% | 0.02 | 13 | \$850 | 28% | 0.0 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Retail | High Bay Lighting | Early | Fixture | 947 | 41% | 0.1 | 13 | \$850 | 36% | 0.3 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Retail | High Bay Lighting | New | Fixture | 466 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Retail | High Bay Lighting | New | Fixture | 434 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Retail | High Bay Lighting | New | Fixture | 720 | 41% | 0.08 | 13 | \$397 | 36% | 0.5 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Retail | High Bay Lighting | ROB | Fixture | 614 | 9.6% | 0.02 | 13 | \$372 | 39% | 0.1 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Retail | High Bay Lighting | ROB | Fixture | 571 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Retail | High Bay Lighting | ROB | Fixture | 947 | 41% | 0.1 | 13 | \$397 | 36% | 0.6 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Retail | High Bay Lighting | Early | Fixture | 1,192 | 19% | 0.06 | 13 | \$851 | 38% | 0.2 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Retail | High Bay Lighting | Early | Fixture | 1,207 | 20% | 0.07 | 13 | \$851 | 38% | 0.2 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | Early | Fixture | 3,510 | 73% | 0.7 | 13 | \$851 | 38% | 1.9 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Retail | High Bay Lighting | New | Fixture | 906 | 19% | 0.05 | 13 | \$372 | 38% | 0.3 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | New | Fixture | 2,667 | 73% | 0.5 | 13 | \$383 | 38% | 3.3 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Retail | High Bay Lighting | ROB | Fixture | 1,192 | 19% | 0.06 | 13 | \$372 | 38% | 0.4 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | ROB | Fixture | 3,510 | 73% | 0.7 | 13 | \$383 | 38% | 4.3 |
| FE-WPP | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Retail | High Bay Lighting | Early | Fixture | 1,192 | 25% | 0.08 | 13 | \$554 | 29% | 0.3 |
| FE-WPP | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Retail | High Bay Lighting | Early | Fixture | 1,170 | 23% | 0.07 | 13 | \$554 | 28% | 0.3 |
| FE-WPP | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | Early | Fixture | 3,510 | 74% | 0.7 | 13 | \$554 | 36% | 3.0 |
| FE-WPP | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Retail | High Bay Lighting | New | Fixture | 906 | 25% | 0.06 | 13 | \$75 | 29% | 1.9 |
| FE-WPP | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | New | Fixture | 2,667 | 74% | 0.5 | 13 | \$86 | 36% | 14.9 |
| FE-WPP | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Retail | High Bay Lighting | ROB | Fixture | 1,192 | 25% | 0.08 | 13 | \$75 | 29% | 2.5 |
| FE-WPP | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | ROB | Fixture | 3,510 | 74% | 0.7 | 13 | \$86 | 36% | 19.6 |
| FE-WPP | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Retail | High Bay Lighting | Early | Fixture | 311 | 0.2% | 0.00 | 13 | \$835 | 38% | 0.0 |
| FE-WPP | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Retail | High Bay Lighting | Early | Fixture | 669 | 54% | 0.10 | 13 | \$835 | 38% | 0.3 |
| FE-WPP | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Retail | High Bay Lighting | New | Fixture | 509 | 54% | 0.07 | 13 | \$382 | 38% | 0.5 |
| FE-WPP | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Retail | High Bay Lighting | ROB | Fixture | 669 | 54% | 0.10 | 13 | \$382 | 38% | 0.6 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Retail | High Bay Lighting | Early | Fixture | 1,518 | 18% | 0.08 | 13 | \$487 | 25% | 0.4 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Retail | High Bay Lighting | Early | Fixture | 1,587 | 22% | 0.09 | 13 | \$487 | 28% | 0.5 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | Early | Fixture | 3,510 | 65% | 0.6 | 13 | \$487 | 36% | 3.0 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Retail | High Bay Lighting | New | Fixture | 1,154 | 18% | 0.06 | 13 | \$16 | 25% | 8.3 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | New | Fixture | 2,667 | 65% | 0.5 | 13 | \$18 | 36% | 60.3 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Retail | High Bay Lighting | ROB | Fixture | 1,518 | 18% | 0.08 | 13 | \$16 | 25% | 11.0 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | ROB | Fixture | 3,510 | 65% | 0.6 | 13 | \$18 | 36% | 79.4 |
| FE-WPP | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Retail | High Bay Lighting | Early | Fixture | 1,518 | 1.5% | 0.01 | 13 | \$557 | 19% | 0.0 |
| FE-WPP | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Retail | High Bay Lighting | Early | Fixture | 1,563 | 4.3% | 0.02 | 13 | \$557 | 19% | 0.1 |
| FE-WPP | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | Early | Fixture | 3,510 | 57% | 0.5 | 13 | \$557 | 19% | 2.3 |
| FE-WPP | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Retail | High Bay Lighting | New | Fixture | 1,154 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|---|---------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | New | Fixture | 2,667 | 57% | 0.4 | 13 | \$88 | 19% | 11.2 |
| FE-WPP | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Retail | High Bay Lighting | ROB | Fixture | 1,518 | 1.5% | 0.01 | 13 | \$86 | 19% | 0.2 |
| FE-WPP | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | ROB | Fixture | 3,510 | 57% | 0.5 | 13 | \$88 | 19% | 14.7 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Retail | High Bay Lighting | Early | Fixture | 645 | 29% | 0.04 | 13 | \$492 | 71% | 0.2 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Retail | High Bay Lighting | Early | Fixture | 539 | 15% | 0.02 | 13 | \$492 | 95% | 0.1 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Retail | High Bay Lighting | Early | Fixture | 801 | 43% | 0.07 | 13 | \$492 | 95% | 0.4 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Retail | High Bay Lighting | Early | Fixture | 742 | 38% | 0.05 | 13 | \$492 | 95% | 0.3 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Retail | High Bay Lighting | New | Fixture | 410 | 15% | 0.01 | 13 | \$25 | 95% | 1.4 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Retail | High Bay Lighting | New | Fixture | 609 | 43% | 0.05 | 13 | \$51 | 95% | 2.9 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Retail | High Bay Lighting | ROB | Fixture | 539 | 15% | 0.02 | 13 | \$25 | 95% | 1.9 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Retail | High Bay Lighting | ROB | Fixture | 801 | 43% | 0.07 | 13 | \$51 | 95% | 3.9 |
| FE-WPP | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Retail | High Bay Lighting | Early | lamp | 94 | 16% | 0.00 | 11 | \$7.7 | 99% | 1.1 |
| FE-WPP | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Retail | High Bay Lighting | New | lamp | 56 | 13% | 0.00 | 11 | \$1.6 | 91% | 2.4 |
| FE-WPP | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Retail | High Bay Lighting | ROB | lamp | 91 | 13% | 0.00 | 11 | \$1.6 | 91% | 3.9 |
| FE-WPP | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Retail | High Bay Lighting | Early | Fixture | 3,591 | 23% | 0.2 | 13 | \$613 | 5% | 0.9 |
| FE-WPP | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Retail | High Bay Lighting | Early | Fixture | 2,821 | 1.6% | 0.01 | 13 | \$613 | 28% | 0.0 |
| FE-WPP | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | Early | Fixture | 7,019 | 60% | 1.1 | 13 | \$613 | 18% | 4.5 |
| FE-WPP | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Retail | High Bay Lighting | New | Fixture | 2,729 | 23% | 0.2 | 13 | \$96 | 5% | 4.1 |
| FE-WPP | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Retail | High Bay Lighting | ROB | Fixture | 3,591 | 23% | 0.2 | 13 | \$96 | 5% | 5.5 |
| FE-WPP | Auto Off Time Switch | Lighting w/ No Controls | Retail | High Bay Lighting | Existing | building | 7,438 | 24% | 0.2 | 8 | \$296 | 13% | 2.2 |
| FE-WPP | Auto Off Time Switch | Lighting w/ No Controls | Retail | High Bay Lighting | New | building | 7,438 | 6.9% | 0.07 | 8 | \$296 | 0% | 0.6 |
| FE-WPP | Central Lighting Control System | Lighting w/ No Controls | Retail | High Bay Lighting | Existing | building | 7,438 | 38% | 0.4 | 8 | \$296 | 13% | 3.5 |
| FE-WPP | Central Lighting Control System | Lighting w/ No Controls | Retail | High Bay Lighting | New | building | 7,438 | 14% | 0.1 | 8 | \$296 | 13% | 1.3 |
| FE-WPP | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Retail | High Bay Lighting | New | building | 7,438 | 10% | 0.1 | 15 | \$29,254 | 32% | 0.0 |
| FE-WPP | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Retail | High Bay Lighting | New | building | 7,438 | 15% | 0.2 | 15 | \$73,134 | 32% | 0.0 |
| FE-WPP | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Retail | High Bay Lighting | New | building | 7,438 | 30% | 0.3 | 15 | \$104,825 | 32% | 0.0 |
| FE-WPP | Indoor Daylight Sensors | Lighting w/ No Controls | Retail | High Bay Lighting | Existing | building | 7,438 | 28% | 0.3 | 8 | \$1,459 | 13% | 0.5 |
| FE-WPP | Indoor Daylight Sensors | Lighting w/ No Controls | Retail | High Bay Lighting | New | building | 7,438 | 4.0% | 0.04 | 8 | \$1,459 | 0% | 0.1 |
| FE-WPP | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Retail | High Bay Lighting | Early | Fixture | 3,591 | 92% | 0.9 | 13 | \$1,916 | 95% | 1.1 |
| FE-WPP | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | Early | Fixture | 7,019 | 96% | 1.8 | 13 | \$1,916 | 95% | 2.3 |
| FE-WPP | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Retail | High Bay Lighting | New | Fixture | 2,729 | 92% | 0.7 | 13 | \$1,468 | 95% | 1.1 |
| FE-WPP | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | New | Fixture | 5,335 | 96% | 1.4 | 13 | \$1,149 | 95% | 2.9 |
| FE-WPP | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Retail | High Bay Lighting | ROB | Fixture | 3,591 | 92% | 0.9 | 13 | \$1,468 | 95% | 1.5 |
| FE-WPP | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | ROB | Fixture | 7,019 | 96% | 1.8 | 13 | \$1,149 | 95% | 3.8 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Retail | High Bay Lighting | Early | Fixture | 1,192 | 67% | 0.2 | 13 | \$960 | 95% | 0.5 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Retail | High Bay Lighting | Early | Fixture | 3,510 | 89% | 0.8 | 13 | \$960 | 95% | 2.1 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Retail | High Bay Lighting | Early | Fixture | 963 | 59% | 0.2 | 13 | \$960 | 95% | 0.4 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Retail | High Bay Lighting | New | Fixture | 906 | 67% | 0.2 | 13 | \$480 | 95% | 0.8 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Retail | High Bay Lighting | New | Fixture | 2,667 | 89% | 0.6 | 13 | \$491 | 95% | 3.1 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Retail | High Bay Lighting | New | Fixture | 732 | 59% | 0.1 | 13 | \$406 | 95% | 0.7 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Retail | High Bay Lighting | ROB | Fixture | 1,192 | 67% | 0.2 | 13 | \$480 | 95% | 1.1 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Retail | High Bay Lighting | ROB | Fixture | 3,510 | 89% | 0.8 | 13 | \$491 | 95% | 4.1 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Retail | High Bay Lighting | ROB | Fixture | 963 | 59% | 0.2 | 13 | \$406 | 95% | 0.9 |
| FE-WPP | Occupancy Sensor | Lighting w/ No Controls | Retail | High Bay Lighting | Existing | building | 7,438 | 24% | 0.2 | 8 | \$447 | 12% | 1.5 |
| FE-WPP | Occupancy Sensor | Lighting w/ No Controls | Retail | High Bay Lighting | New | building | 7,438 | 6.9% | 0.07 | 8 | \$447 | 0% | 0.4 |
| FE-WPP | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Retail | High Bay Lighting | Existing | building | 7,438 | 28% | 0.3 | 8 | \$1,459 | 12% | 0.5 |
| FE-WPP | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Retail | High Bay Lighting | New | building | 7,438 | 4.0% | 0.04 | 8 | \$1,459 | 0% | 0.1 |
| FE-WPP | Time Clock Control | Lighting w/ No Controls | Retail | High Bay Lighting | Existing | building | 7,438 | 28% | 0.3 | 8 | \$296 | 13% | 2.6 |
| FE-WPP | Time Clock Control | Lighting w/ No Controls | Retail | High Bay Lighting | New | building | 7,438 | 4.0% | 0.04 | 8 | \$296 | 0% | 0.4 |
| FE-WPP | Auto Off Time Switch | Lighting w/ No Controls | Retail | Lin. Fluor. Lighting | Existing | building | 14,602 | 24% | 0.2 | 8 | \$296 | 13% | 4.0 |
| FE-WPP | Auto Off Time Switch | Lighting w/ No Controls | Retail | Lin. Fluor. Lighting | New | building | 14,602 | 7.0% | 0.07 | 8 | \$296 | 0% | 1.1 |
| FE-WPP | Central Lighting Control System | Lighting w/ No Controls | Retail | Lin. Fluor. Lighting | Existing | building | 14,602 | 38% | 0.4 | 8 | \$296 | 12% | 6.3 |
| FE-WPP | Central Lighting Control System | Lighting w/ No Controls | Retail | Lin. Fluor. Lighting | New | building | 14,602 | 14% | 0.1 | 8 | \$296 | 12% | 2.3 |
| FE-WPP | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Retail | Lin. Fluor. Lighting | New | building | 14,602 | 10% | 0.1 | 15 | \$29,254 | 32% | 0.0 |
| FE-WPP | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Retail | Lin. Fluor. Lighting | New | building | 14,602 | 15% | 0.2 | 15 | \$73,134 | 32% | 0.0 |
| FE-WPP | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Retail | Lin. Fluor. Lighting | New | building | 14,602 | 30% | 0.3 | 15 | \$104,825 | 32% | 0.0 |
| FE-WPP | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Retail | Lin. Fluor. Lighting | Early | Lamp | 190 | 38% | 0.02 | 11 | \$7.3 | 94% | 5.2 |
| FE-WPP | Indoor Daylight Sensors | Lighting w/ No Controls | Retail | Lin. Fluor. Lighting | Existing | building | 14,602 | 28% | 0.3 | 8 | \$1,459 | 13% | 0.9 |
| FE-WPP | Indoor Daylight Sensors | Lighting w/ No Controls | Retail | Lin. Fluor. Lighting | New | building | 14,602 | 4.1% | 0.04 | 8 | \$1,459 | 0% | 0.1 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Retail | Lin. Fluor. Lighting | Early | Lamp | 72 | 19% | 0.00 | 15 | \$35 | 94% | 0.3 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 40W T12 Lamp, Magnetic Ballast | Retail | Lin. Fluor. Lighting | Early | Lamp | 158 | 63% | 0.03 | 15 | \$35 | 94% | 2.1 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Retail | Lin. Fluor. Lighting | Early | Lamp | 89 | 34% | 0.01 | 15 | \$35 | 94% | 0.6 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Retail | Lin. Fluor. Lighting | Early | Lamp | 86 | 32% | 0.01 | 15 | \$35 | 94% | 0.6 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Retail | Lin. Fluor. Lighting | New | Lamp | 55 | 19% | 0.00 | 15 | \$28 | 94% | 0.3 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Retail | Lin. Fluor. Lighting | New | Lamp | 65 | 32% | 0.01 | 15 | \$29 | 94% | 0.5 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Retail | Lin. Fluor. Lighting | New | Lamp | 67 | 34% | 0.01 | 15 | \$22 | 94% | 0.8 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Retail | Lin. Fluor. Lighting | New | Lamp | 65 | 32% | 0.01 | 15 | \$29 | 94% | 0.5 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Retail | Lin. Fluor. Lighting | ROB | Lamp | 72 | 19% | 0.00 | 15 | \$28 | 94% | 0.4 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Retail | Lin. Fluor. Lighting | ROB | Lamp | 86 | 32% | 0.01 | 15 | \$29 | 94% | 0.7 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Retail | Lin. Fluor. Lighting | ROB | Lamp | 89 | 34% | 0.01 | 15 | \$22 | 94% | 1.0 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Retail | Lin. Fluor. Lighting | ROB | Lamp | 86 | 32% | 0.01 | 15 | \$29 | 94% | 0.7 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|--|---------|---------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Retail | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 20.9 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Retail | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 21.0 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Retail | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 21.7 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Retail | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 21.8 |
| FE-WPP | Escalator Motor Controller | Constant power control | Retail | Motors | New | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 67% | 5.5 |
| FE-WPP | Escalator Motor Controller | Constant power control | Retail | Motors | ROB | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 67% | 5.6 |
| FE-WPP | Variable Speed Drive Control, 15HP | Existing Motors w/out VSD Drive | Retail | Motors | Early | motor | 42,326 | 70% | 4.4 | 15 | \$731 | 86% | 25.0 |
| FE-WPP | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Retail | Motors | New | motor | 41,416 | 72% | 4.4 | 15 | \$731 | 86% | 25.0 |
| FE-WPP | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Retail | Motors | ROB | motor | 41,416 | 71% | 4.4 | 15 | \$731 | 86% | 25.0 |
| FE-WPP | Variable Speed Drive Control, 40HP | Existing Motors w/out VSD Drive | Retail | Motors | Early | motor | 110,442 | 71% | 11.5 | 15 | \$4,666 | 86% | 10.3 |
| FE-WPP | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Retail | Motors | New | motor | 109,151 | 71% | 11.5 | 15 | \$4,666 | 86% | 10.3 |
| FE-WPP | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Retail | Motors | ROB | motor | 109,151 | 71% | 11.5 | 15 | \$4,666 | 86% | 10.3 |
| FE-WPP | Variable Speed Drive Control, 5HP | Existing Motors w/out VFD Drive | Retail | Motors | Early | motor | 14,673 | 72% | 1.5 | 15 | \$2,243 | 86% | 2.9 |
| FE-WPP | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Retail | Motors | New | motor | 14,345 | 71% | 1.5 | 15 | \$2,243 | 86% | 2.8 |
| FE-WPP | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Retail | Motors | ROB | motor | 14,345 | 71% | 1.5 | 15 | \$2,243 | 86% | 2.8 |
| FE-WPP | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Retail | Motors | Early | motor | 3,501 | 32% | 0.1 | 15 | \$268 | 13% | 2.5 |
| FE-WPP | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Retail | Motors | New | motor | 3,501 | 32% | 0.1 | 15 | \$268 | 13% | 2.5 |
| FE-WPP | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Retail | Motors | ROB | motor | 3,501 | 32% | 0.1 | 15 | \$268 | 13% | 2.5 |
| FE-WPP | VFD on Chilled Water Pump | Motor w/out VFD Drive | Retail | Motors | Early | motor | 28,370 | 55% | 2.7 | 15 | \$2,903 | 86% | 3.4 |
| FE-WPP | VFD on Chilled Water Pump | Motor w/out VFD Drive | Retail | Motors | New | motor | 27,840 | 55% | 2.7 | 15 | \$2,843 | 86% | 3.4 |
| FE-WPP | VFD on Chilled Water Pump | Motor w/out VFD Drive | Retail | Motors | ROB | motor | 27,840 | 55% | 2.7 | 15 | \$2,843 | 86% | 3.4 |
| FE-WPP | VFD on Condenser Water Pump | Motor w/out VFD Drive | Retail | Motors | Early | motor | 29,290 | 32% | 3.2 | 15 | \$2,903 | 86% | 2.5 |
| FE-WPP | VFD on Condenser Water Pump | Motor w/out VFD Drive | Retail | Motors | New | motor | 28,742 | 33% | 3.1 | 15 | \$2,843 | 86% | 2.5 |
| FE-WPP | VFD on Condenser Water Pump | Motor w/out VFD Drive | Retail | Motors | ROB | motor | 28,742 | 33% | 3.1 | 15 | \$2,843 | 86% | 2.5 |
| FE-WPP | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Retail | Motors | Early | motor | 23,552 | 56% | 0.00 | 15 | \$2,903 | 86% | 2.2 |
| FE-WPP | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Retail | Motors | New | motor | 23,111 | 57% | 0.00 | 15 | \$2,843 | 86% | 2.2 |
| FE-WPP | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Retail | Motors | ROB | motor | 23,111 | 57% | 0.00 | 15 | \$2,843 | 86% | 2.2 |
| FE-WPP | VFD on HVAC Fan | Motor w/out VFD | Retail | Motors | Early | motor | 29,667 | 70% | 3.4 | 15 | \$2,903 | 86% | 4.5 |
| FE-WPP | VFD on HVAC Fan | Motor w/out VFD | Retail | Motors | New | motor | 29,112 | 71% | 3.3 | 15 | \$2,843 | 86% | 4.6 |
| FE-WPP | VFD on HVAC Fan | Motor w/out VFD | Retail | Motors | ROB | motor | 29,112 | 71% | 3.3 | 15 | \$2,843 | 86% | 4.6 |
| FE-WPP | Elevators | Std. Eff Elevator | Retail | Other | ROB | measure | 89,016 | 0.6% | 0.07 | 15 | \$126 | 63% | 2.5 |
| FE-WPP | Variable Speed Drives on Process Equipment | Constant speed control | Retail | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 10.1 |
| FE-WPP | Variable Speed Drives on Process Equipment | Constant speed control | Retail | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 10.1 |
| FE-WPP | Auto Off Time Switch | Lighting w/ No Controls | Retail | Other Int. Lighting | Existing | building | 3,438 | 24% | 0.2 | 8 | \$296 | 13% | 1.3 |
| FE-WPP | Auto Off Time Switch | Lighting w/ No Controls | Retail | Other Int. Lighting | New | building | 3,438 | 7.0% | 0.07 | 8 | \$296 | 0% | 0.4 |
| FE-WPP | Central Lighting Control System | Lighting w/ No Controls | Retail | Other Int. Lighting | Existing | building | 3,438 | 38% | 0.4 | 8 | \$296 | 13% | 2.0 |
| FE-WPP | Central Lighting Control System | Lighting w/ No Controls | Retail | Other Int. Lighting | New | building | 3,438 | 14% | 0.1 | 8 | \$296 | 13% | 0.7 |
| FE-WPP | Cold Cathode Screw-In Bulb | 40W Incandescent Bulb | Retail | Other Int. Lighting | Early | lamp | 167 | 87% | 0.04 | 9 | \$30 | 14% | 2.4 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Retail | Other Int. Lighting | Early | lamp | 119 | 81% | 0.03 | 9 | \$30 | 11% | 1.6 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Retail | Other Int. Lighting | New | lamp | 91 | 81% | 0.02 | 9 | \$21 | 14% | 1.7 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Retail | Other Int. Lighting | New | lamp | 91 | 81% | 0.02 | 9 | \$23 | 14% | 1.6 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Retail | Other Int. Lighting | New | lamp | 91 | 81% | 0.02 | 9 | \$22 | 11% | 1.7 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Retail | Other Int. Lighting | ROB | lamp | 119 | 81% | 0.03 | 9 | \$21 | 14% | 2.2 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Retail | Other Int. Lighting | ROB | lamp | 119 | 81% | 0.03 | 9 | \$23 | 14% | 2.1 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Retail | Other Int. Lighting | ROB | lamp | 119 | 81% | 0.03 | 9 | \$22 | 11% | 2.2 |
| FE-WPP | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Retail | Other Int. Lighting | Early | lamp | 167 | 75% | 0.03 | 3 | \$73 | 24% | 0.3 |
| FE-WPP | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Retail | Other Int. Lighting | New | fixture | 181 | 65% | 0.03 | 13 | \$29 | 28% | 2.7 |
| FE-WPP | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Retail | Other Int. Lighting | New | lamp | 91 | 65% | 0.02 | 3 | \$29 | 28% | 0.4 |
| FE-WPP | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Retail | Other Int. Lighting | ROB | fixture | 239 | 65% | 0.04 | 13 | \$29 | 24% | 3.5 |
| FE-WPP | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Retail | Other Int. Lighting | ROB | lamp | 119 | 65% | 0.02 | 3 | \$29 | 24% | 0.5 |
| FE-WPP | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Retail | Other Int. Lighting | Early | lamp | 167 | 75% | 0.03 | 3 | \$3.2 | 24% | 7.6 |
| FE-WPP | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Retail | Other Int. Lighting | New | lamp | 91 | 65% | 0.02 | 3 | \$1.8 | 24% | 6.5 |
| FE-WPP | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Retail | Other Int. Lighting | ROB | lamp | 119 | 65% | 0.02 | 3 | \$1.8 | 24% | 8.5 |
| FE-WPP | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Retail | Other Int. Lighting | ROB | lamp | 119 | 65% | 0.02 | 3 | \$1.8 | 24% | 8.5 |
| FE-WPP | Exit Sign Retrofit: CFL replacing Incandescent | One 23W Single Sided Incandescent Exit Sign | Retail | Other Int. Lighting | Early | exit sign | 130 | 42% | 0.01 | 15 | \$48 | 22% | 0.7 |
| FE-WPP | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Retail | Other Int. Lighting | New | building | 3,438 | 10% | 0.1 | 15 | \$29,254 | 32% | 0.0 |
| FE-WPP | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Retail | Other Int. Lighting | New | building | 3,438 | 15% | 0.2 | 15 | \$73,134 | 32% | 0.0 |
| FE-WPP | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Retail | Other Int. Lighting | New | building | 3,438 | 30% | 0.3 | 15 | \$104,825 | 32% | 0.0 |
| FE-WPP | Indoor Daylight Sensors | Lighting w/ No Controls | Retail | Other Int. Lighting | Existing | building | 3,438 | 28% | 0.3 | 8 | \$1,459 | 13% | 0.3 |
| FE-WPP | Indoor Daylight Sensors | Lighting w/ No Controls | Retail | Other Int. Lighting | New | building | 3,438 | 4.1% | 0.04 | 8 | \$1,459 | 0% | 0.0 |
| FE-WPP | LED Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Retail | Other Int. Lighting | Early | sign | 153 | 87% | 0.02 | 15 | \$48 | 16% | 1.7 |
| FE-WPP | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Retail | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 1.8 |
| FE-WPP | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Retail | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 1.8 |
| FE-WPP | LED Task Lighting/Screw-In | 1 15W CFL bulb | Retail | Other Int. Lighting | Early | lamp | 34 | 33% | 0.00 | 10 | \$9.6 | 24% | 0.6 |
| FE-WPP | LED Task Lighting/Screw-In | 1 60W Incandescent Bulb | Retail | Other Int. Lighting | Early | lamp | 136 | 83% | 0.03 | 10 | \$9.6 | 24% | 6.4 |
| FE-WPP | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Retail | Other Int. Lighting | New | lamp | 74 | 77% | 0.02 | 10 | \$7.9 | 24% | 3.9 |
| FE-WPP | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Retail | Other Int. Lighting | New | lamp | 74 | 77% | 0.02 | 10 | \$7.9 | 24% | 3.9 |
| FE-WPP | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Retail | Other Int. Lighting | ROB | lamp | 98 | 77% | 0.02 | 10 | \$7.9 | 24% | 5.1 |
| FE-WPP | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Retail | Other Int. Lighting | ROB | lamp | 98 | 77% | 0.02 | 10 | \$7.9 | 24% | 5.1 |
| FE-WPP | Occupancy Sensor | Lighting w/ No Controls | Retail | Other Int. Lighting | Existing | building | 3,438 | 24% | 0.2 | 8 | \$447 | 12% | 0.8 |
| FE-WPP | Occupancy Sensor | Lighting w/ No Controls | Retail | Other Int. Lighting | New | building | 3,438 | 7.0% | 0.07 | 8 | \$447 | 0% | 0.2 |
| FE-WPP | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Retail | Other Int. Lighting | Existing | building | 3,438 | 28% | 0.3 | 8 | \$1,459 | 12% | 0.3 |
| FE-WPP | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Retail | Other Int. Lighting | New | building | 3,438 | 4.1% | 0.04 | 8 | \$1,459 | 0% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|---|---------|---------------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Retail | Other Int. Lighting | Early | exit sign | 130 | 100% | 0.02 | 15 | \$173 | 26% | 0.5 |
| FE-WPP | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Retail | Other Int. Lighting | New | exit sign | 75 | 100% | 0.01 | 15 | \$148 | 31% | 0.3 |
| FE-WPP | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Retail | Other Int. Lighting | ROB | exit sign | 75 | 100% | 0.01 | 15 | \$148 | 26% | 0.3 |
| FE-WPP | Time Clock Control | Lighting w/ No Controls | Retail | Other Int. Lighting | Existing | building | 3,438 | 28% | 0.3 | 8 | \$296 | 13% | 1.5 |
| FE-WPP | Time Clock Control | Lighting w/ No Controls | Retail | Other Int. Lighting | New | building | 3,438 | 4.1% | 0.04 | 8 | \$296 | 0% | 0.2 |
| FE-WPP | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Retail | Plug Load | Existing | building | 924 | 46% | 0.5 | 5 | \$189 | 4% | 1.4 |
| FE-WPP | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Retail | Plug Load | New | building | 924 | 46% | 0.5 | 5 | \$189 | 4% | 1.4 |
| FE-WPP | Data Center - Server/Storage Consolidation | No Consolidation | Retail | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-WPP | Data Center - Server/Storage Consolidation | No Consolidation | Retail | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-WPP | Data Center - Server/Storage Virtualization | No Virtualization | Retail | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-WPP | Data Center - Server/Storage Virtualization | No Virtualization | Retail | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-WPP | Energy Star - Scanners | Std Scanner | Retail | Plug Load | New | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| FE-WPP | Energy Star - Scanners | Std Scanner | Retail | Plug Load | ROB | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| FE-WPP | Energy Star Battery Charging System (for small cordless products) | Std. Battery Charging System | Retail | Plug Load | ROB | measure | 593 | 2.3% | 0.1 | 5 | \$65 | 4% | 0.7 |
| FE-WPP | Energy Star Dishwasher | Existing Dishwasher units | Retail | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,580 | 1% | 1.0 |
| FE-WPP | Energy Star Dishwasher | Standard Dishwasher unit | Retail | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 1% | 3.1 |
| FE-WPP | Energy Star Dishwasher | Standard Dishwasher unit | Retail | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 1% | 3.1 |
| FE-WPP | Energy Star External Power Adapter | Std. Power Adapter | Retail | Plug Load | New | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| FE-WPP | Energy Star External Power Adapter | Std. Power Adapter | Retail | Plug Load | ROB | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| FE-WPP | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Retail | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 17% | 0.2 |
| FE-WPP | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Retail | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 1.9 |
| FE-WPP | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Retail | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 1.9 |
| FE-WPP | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Retail | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 9% | 0.8 |
| FE-WPP | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Retail | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.6 |
| FE-WPP | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Retail | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.6 |
| FE-WPP | ENERGY STAR® Copiers | 10% Less Efficient Copier | Retail | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 18% | 0.0 |
| FE-WPP | ENERGY STAR® Copiers | One Conventional Copier | Retail | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| FE-WPP | ENERGY STAR® Copiers | One Conventional Copier | Retail | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| FE-WPP | ENERGY STAR® desktop | Standard computer | Retail | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 69% | 0.1 |
| FE-WPP | ENERGY STAR® desktop | Standard computer | Retail | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.3 |
| FE-WPP | ENERGY STAR® desktop | Standard computer | Retail | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.3 |
| FE-WPP | ENERGY STAR® Fax | 10% Less Efficient Fax | Retail | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 15% | 0.0 |
| FE-WPP | ENERGY STAR® Fax | One Conventional Fax | Retail | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| FE-WPP | ENERGY STAR® Fax | One Conventional Fax | Retail | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| FE-WPP | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Retail | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 70% | 0.0 |
| FE-WPP | ENERGY STAR® Monitors | One Conventional Monitor | Retail | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| FE-WPP | ENERGY STAR® Monitors | One Conventional Monitor | Retail | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| FE-WPP | ENERGY STAR® Printers | 10% Less Efficient Printer | Retail | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 44% | 0.0 |
| FE-WPP | ENERGY STAR® Printers | One Conventional Printer | Retail | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| FE-WPP | ENERGY STAR® Printers | One Conventional Printer | Retail | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| FE-WPP | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Retail | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 43% | 0.1 |
| FE-WPP | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Retail | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.7 |
| FE-WPP | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Retail | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.7 |
| FE-WPP | ENERGY STAR® Televisions | 10% Less Efficient Television | Retail | Plug Load | Early | Unit | 228 | 38% | 0.02 | 6 | \$672 | 40% | 0.0 |
| FE-WPP | ENERGY STAR® Televisions | One Conventional Television | Retail | Plug Load | New | Unit | 207 | 32% | 0.02 | 6 | \$206 | 40% | 0.1 |
| FE-WPP | ENERGY STAR® Televisions | One Conventional Television | Retail | Plug Load | ROB | Unit | 207 | 32% | 0.02 | 6 | \$206 | 40% | 0.1 |
| FE-WPP | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Retail | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 24% | 0.3 |
| FE-WPP | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Retail | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.6 |
| FE-WPP | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Retail | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.6 |
| FE-WPP | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Retail | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.2 |
| FE-WPP | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Retail | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.2 |
| FE-WPP | Network PC Power Management | No PC Power Management | Retail | Plug Load | Existing | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 6.5 |
| FE-WPP | Network PC Power Management | No PC Power Management | Retail | Plug Load | New | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 6.5 |
| FE-WPP | Smart Strip Plug Outlets | Standard plug strip/outlet | Retail | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.3 |
| FE-WPP | Smart Strip Plug Outlets | Standard plug strip/outlet | Retail | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.3 |
| FE-WPP | Smart Strip Plug Outlets | Standard plug strip/outlet | Retail | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-WPP | Smart Strip Plug Outlets | Standard plug strip/outlet | Retail | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-WPP | Smart Strip Plug Outlets | Standard plug strip/outlet | Retail | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-WPP | Smart Strip Plug Outlets | Standard plug strip/outlet | Retail | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-WPP | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Retail | Plug Load | Existing | building | 924 | 46% | 0.5 | 5 | \$180 | 3% | 1.4 |
| FE-WPP | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Retail | Plug Load | New | building | 924 | 46% | 0.5 | 5 | \$180 | 3% | 1.4 |
| FE-WPP | Air curtain technology | Strip plastic curtain | Retail | Refrigeration | New | building | 6,300 | 6.8% | 0.07 | 8 | \$747 | 35% | 0.2 |
| FE-WPP | Air curtain technology | Strip plastic curtain | Retail | Refrigeration | New | building | 3,665 | 6.8% | 0.07 | 8 | \$752 | 35% | 0.1 |
| FE-WPP | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Retail | Refrigeration | Existing | building | 1,031 | 7.7% | 0.08 | 12 | \$70 | 11% | 1.3 |
| FE-WPP | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Retail | Refrigeration | New | building | 1,031 | 7.7% | 0.08 | 12 | \$70 | 11% | 1.3 |
| FE-WPP | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Retail | Refrigeration | Existing | building | 1,031 | 9.7% | 0.10 | 12 | \$70 | 11% | 1.6 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|---|---------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Retail | Refrigeration | New | building | 1,031 | 9.7% | 0.10 | 12 | \$70 | 11% | 1.6 |
| FE-WPP | Auto Closer on Refrigerator Door | Door w/out Autocloser | Retail | Refrigeration | Existing | building | 3,665 | 31% | 0.3 | 8 | \$963 | 40% | 0.5 |
| FE-WPP | Auto Closer on Refrigerator Door | Door w/out Autocloser | Retail | Refrigeration | Existing | building | 6,300 | 13% | 0.1 | 8 | \$728 | 40% | 0.4 |
| FE-WPP | Auto Closer on Refrigerator Door | Door w/out Autocloser | Retail | Refrigeration | New | building | 3,665 | 31% | 0.3 | 8 | \$963 | 40% | 0.5 |
| FE-WPP | Auto Closer on Refrigerator Door | Door w/out Autocloser | Retail | Refrigeration | New | building | 6,300 | 13% | 0.1 | 8 | \$728 | 40% | 0.4 |
| FE-WPP | Demand Hot Gas Defrost | Base Refrigeration System | Retail | Refrigeration | Existing | measure | 1,031 | 3.0% | 0.03 | 10 | \$1,340 | 0% | 0.0 |
| FE-WPP | Demand Hot Gas Defrost | Base Refrigeration System | Retail | Refrigeration | New | measure | 1,031 | 3.0% | 0.03 | 10 | \$1,340 | 0% | 0.0 |
| FE-WPP | Door Gasket- Freezer | Door w/out Gasket | Retail | Refrigeration | Existing | building | 3,665 | 17% | 0.2 | 4 | \$99 | 29% | 1.5 |
| FE-WPP | Door Gasket- Freezer | Door w/out Gasket | Retail | Refrigeration | New | building | 3,665 | 11% | 0.1 | 4 | \$99 | 29% | 1.0 |
| FE-WPP | Door Gasket- Refrigerator | Door w/out Gasket | Retail | Refrigeration | Existing | building | 6,300 | 4.1% | 0.04 | 4 | \$101 | 45% | 0.5 |
| FE-WPP | Door Gasket- Refrigerator | Door w/out Gasket | Retail | Refrigeration | New | building | 6,300 | 4.1% | 0.04 | 4 | \$101 | 45% | 0.5 |
| FE-WPP | Economizer for Walk-in Coolers | No Economizer | Retail | Refrigeration | Early | measure | 11,267 | 6.6% | 0.1 | 10 | \$131 | 72% | 2.4 |
| FE-WPP | Economizer for Walk-in Coolers | No Economizer | Retail | Refrigeration | Early | measure | 11,267 | 6.6% | 0.1 | 10 | \$131 | 72% | 2.4 |
| FE-WPP | Economizer for Walk-in Coolers | No Economizer | Retail | Refrigeration | Early | measure | 11,267 | 6.6% | 0.1 | 10 | \$131 | 72% | 2.4 |
| FE-WPP | Economizer for Walk-in Coolers | No Economizer | Retail | Refrigeration | New | measure | 11,267 | 6.6% | 0.1 | 10 | \$15 | 72% | 20.7 |
| FE-WPP | Economizer for Walk-in Coolers | No Economizer | Retail | Refrigeration | New | measure | 11,267 | 6.6% | 0.1 | 10 | \$15 | 72% | 20.8 |
| FE-WPP | Economizer for Walk-in Coolers | No Economizer | Retail | Refrigeration | New | measure | 11,267 | 6.6% | 0.1 | 10 | \$15 | 72% | 20.8 |
| FE-WPP | Economizer for Walk-in Coolers | No Economizer | Retail | Refrigeration | ROB | measure | 11,267 | 6.6% | 0.1 | 10 | \$15 | 72% | 20.7 |
| FE-WPP | Economizer for Walk-in Coolers | No Economizer | Retail | Refrigeration | ROB | measure | 11,267 | 6.6% | 0.1 | 10 | \$15 | 72% | 20.8 |
| FE-WPP | Economizer for Walk-in Coolers | No Economizer | Retail | Refrigeration | ROB | measure | 11,267 | 6.6% | 0.1 | 10 | \$15 | 72% | 20.8 |
| FE-WPP | eCube | Refrigeration unit w/out eCube | Retail | Refrigeration | Existing | building | 6,300 | 15% | 0.2 | 15 | \$413 | 57% | 1.4 |
| FE-WPP | eCube | Refrigeration unit w/out eCube | Retail | Refrigeration | New | building | 6,300 | 15% | 0.2 | 15 | \$413 | 57% | 1.4 |
| FE-WPP | Efficient compressor motor | Base Refrigeration System - Grocery | Retail | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| FE-WPP | Efficient compressor motor | Base Refrigeration System - Grocery | Retail | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| FE-WPP | Efficient compressor motor | Base Refrigeration System - Grocery | Retail | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| FE-WPP | Efficient compressor motor | Base Refrigeration System - Grocery | Retail | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| FE-WPP | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Retail | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.5 |
| FE-WPP | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Retail | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| FE-WPP | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Retail | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| FE-WPP | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Retail | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.3 |
| FE-WPP | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Retail | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.7 |
| FE-WPP | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Retail | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.7 |
| FE-WPP | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Retail | Refrigeration | Existing | building | 6,300 | 1.5% | 0.02 | 10 | \$369 | 77% | 0.1 |
| FE-WPP | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Retail | Refrigeration | New | building | 6,300 | 1.5% | 0.02 | 10 | \$369 | 77% | 0.1 |
| FE-WPP | Floating head pressure controller | System w/out FHPC | Retail | Refrigeration | Existing | building | 3,665 | 6.2% | 0.02 | 15 | \$8,682 | 41% | 0.0 |
| FE-WPP | Floating head pressure controller | System w/out FHPC | Retail | Refrigeration | Existing | building | 1,031 | 9.2% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-WPP | Floating head pressure controller | System w/out FHPC | Retail | Refrigeration | Existing | building | 6,300 | 1.2% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-WPP | Floating head pressure controller | System w/out FHPC | Retail | Refrigeration | New | building | 3,665 | 6.2% | 0.02 | 15 | \$8,682 | 41% | 0.0 |
| FE-WPP | Floating head pressure controller | System w/out FHPC | Retail | Refrigeration | New | building | 1,031 | 9.2% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-WPP | Floating head pressure controller | System w/out FHPC | Retail | Refrigeration | New | building | 6,300 | 1.2% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-WPP | High Efficiency Commercial Freezer | Std. Commercial Freezer | Retail | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 86% | 0.3 |
| FE-WPP | High Efficiency Commercial Freezer | Std. Commercial Freezer | Retail | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 3.6 |
| FE-WPP | High Efficiency Commercial Freezer | Std. Commercial Freezer | Retail | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 3.6 |
| FE-WPP | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Retail | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 2% | 0.1 |
| FE-WPP | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Retail | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.8 |
| FE-WPP | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Retail | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.8 |
| FE-WPP | High Efficiency Ice Maker | Exisiting Standard Efficiency Ice Maker in Pennsylvania | Retail | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 73% | 0.1 |
| FE-WPP | High Efficiency Ice Maker | Standard code minimum Ice Maker | Retail | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| FE-WPP | High Efficiency Ice Maker | Standard code minimum Ice Maker | Retail | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| FE-WPP | High Efficiency Ice Making Head | Standard Ice Making Head | Retail | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.5 |
| FE-WPP | High Efficiency Ice Making Head | Standard Ice Making Head | Retail | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.6 |
| FE-WPP | High R-Value Glass Doors | Base Refrigeration System - Grocery | Retail | Refrigeration | Existing | building | 1,031 | 0.7% | 0.01 | 10 | \$17 | 0% | 0.4 |
| FE-WPP | High R-Value Glass Doors | Base Refrigeration System - Grocery | Retail | Refrigeration | New | building | 1,031 | 0.7% | 0.01 | 10 | \$17 | 0% | 0.4 |
| FE-WPP | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Retail | Refrigeration | Early | Fixture | 373 | 56% | 0.02 | 8 | \$448 | 47% | 0.2 |
| FE-WPP | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Retail | Refrigeration | New | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 47% | 0.3 |
| FE-WPP | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Retail | Refrigeration | ROB | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 47% | 0.3 |
| FE-WPP | No-heat glass doors | Standard low-temp reach-in | Retail | Refrigeration | Existing | building | 1,031 | 20% | 0.2 | 10 | \$1,549 | 8% | 0.1 |
| FE-WPP | No-heat glass doors | Standard low-temp reach-in | Retail | Refrigeration | New | building | 1,031 | 20% | 0.2 | 10 | \$1,549 | 8% | 0.1 |
| FE-WPP | Quick acting freezer doors | Std. Freezer Doors | Retail | Refrigeration | Existing | building | 3,665 | 13% | 0.1 | 10 | \$907 | 56% | 0.3 |
| FE-WPP | Quick acting freezer doors | Std. Freezer Doors | Retail | Refrigeration | New | building | 3,665 | 13% | 0.1 | 10 | \$907 | 56% | 0.3 |
| FE-WPP | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Retail | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 30% | 0.4 |
| FE-WPP | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Retail | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.5 |
| FE-WPP | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Retail | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.5 |
| FE-WPP | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 30% | 1.5 |
| FE-WPP | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 2.6 |
| FE-WPP | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 2.6 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|---|---------|-----------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 30% | 1.5 |
| FE-WPP | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 3.5 |
| FE-WPP | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 3.5 |
| FE-WPP | Refrigeration Commissioning | Non-commissioned refrigeration system | Retail | Refrigeration | Existing | building | 11,454 | 9.5% | 0.10 | 3 | \$1,199 | 85% | 0.1 |
| FE-WPP | Refrigeration Commissioning | Non-commissioned refrigeration system | Retail | Refrigeration | New | building | 11,454 | 9.5% | 0.10 | 3 | \$1,199 | 85% | 0.1 |
| FE-WPP | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Retail | Refrigeration | Existing | building | 3,665 | 40% | 0.4 | 4 | \$120 | 22% | 3.0 |
| FE-WPP | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Retail | Refrigeration | Existing | building | 6,300 | 5.7% | 0.06 | 4 | \$122 | 22% | 0.6 |
| FE-WPP | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Retail | Refrigeration | New | building | 3,665 | 40% | 0.4 | 4 | \$120 | 22% | 3.0 |
| FE-WPP | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Retail | Refrigeration | New | building | 6,300 | 5.7% | 0.06 | 4 | \$122 | 22% | 0.6 |
| FE-WPP | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Retail | Refrigeration | Existing | building | 3,665 | 5.6% | 0.06 | 11 | \$127 | 79% | 0.9 |
| FE-WPP | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Retail | Refrigeration | New | building | 3,665 | 5.6% | 0.06 | 11 | \$127 | 79% | 0.9 |
| FE-WPP | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Retail | Refrigeration | Existing | building | 6,300 | 4.3% | 0.04 | 11 | \$127 | 79% | 1.0 |
| FE-WPP | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Retail | Refrigeration | New | building | 6,300 | 4.3% | 0.04 | 11 | \$127 | 79% | 1.0 |
| FE-WPP | Vendor Miser | No Vendor Miser | Retail | Refrigeration | Existing | machine | 458 | 12% | 0.1 | 8 | \$46 | 7% | 1.9 |
| FE-WPP | Vertical Night Covers | Display cases w/out night covers-High Temperature | Retail | Refrigeration | Existing | building | 1,031 | 0.6% | 0.01 | 5 | \$56 | 9% | 0.1 |
| FE-WPP | Vertical Night Covers | Display cases w/out night covers-High Temperature | Retail | Refrigeration | New | building | 1,031 | 0.6% | 0.01 | 5 | \$56 | 9% | 0.1 |
| FE-WPP | VSD Controlled Compressor | Compressor w/out VSD | Retail | Refrigeration | Early | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |
| FE-WPP | VSD Controlled Compressor | Compressor w/out VSD | Retail | Refrigeration | New | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |
| FE-WPP | VSD Controlled Compressor | Compressor w/out VSD | Retail | Refrigeration | ROB | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |
| FE-WPP | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Retail | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$269 | 35% | 0.8 |
| FE-WPP | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Retail | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$269 | 35% | 0.8 |
| FE-WPP | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Retail | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 2.8 |
| FE-WPP | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Retail | Refrigeration | New | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 2.7 |
| FE-WPP | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Retail | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 2.8 |
| FE-WPP | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Retail | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 2.7 |
| FE-WPP | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 35% | 2.1 |
| FE-WPP | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 35% | 2.0 |
| FE-WPP | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 4.6 |
| FE-WPP | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.3 |
| FE-WPP | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 4.6 |
| FE-WPP | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.3 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Retail | Space Heating | Existing | building | 17,920 | 7.1% | 0.07 | 6 | \$14,374 | 82% | 0.0 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Retail | Space Heating | New | building | 17,920 | 7.1% | 0.07 | 6 | \$14,374 | 82% | 0.0 |
| FE-WPP | Adding window shade film | No shade film | Retail | Space Heating | Existing | building | 17,920 | 1.3% | 0.4 | 10 | \$218 | 13% | 1.5 |
| FE-WPP | Adding window shade film | No shade film | Retail | Space Heating | New | building | 17,920 | 1.3% | 0.4 | 10 | \$218 | 13% | 1.5 |
| FE-WPP | Adding window shade screen | No shade screen | Retail | Space Heating | Existing | building | 17,920 | 1.1% | 0.01 | 10 | \$84 | 13% | 0.9 |
| FE-WPP | Adding window shade screen | No shade screen | Retail | Space Heating | New | building | 17,920 | 1.1% | 0.01 | 10 | \$84 | 13% | 0.8 |
| FE-WPP | Automated control system | Manual Controls | Retail | Space Heating | Existing | building | 17,920 | 17% | 0.2 | 15 | \$19,618 | 51% | 0.1 |
| FE-WPP | Automated control system | Manual Controls | Retail | Space Heating | New | building | 17,920 | 17% | 0.2 | 15 | \$19,618 | 94% | 0.1 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Retail | Space Heating | Existing | building | 17,920 | 4.9% | 0.05 | 15 | \$19,662 | 71% | 0.0 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Retail | Space Heating | New | building | 17,920 | 1.6% | 0.02 | 15 | \$18,689 | 94% | 0.0 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Retail | Space Heating | Existing | building | 17,920 | 1.4% | 0.04 | 15 | \$142 | 20% | 1.1 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Retail | Space Heating | New | building | 17,920 | 1.4% | 0.04 | 15 | \$142 | 10% | 1.0 |
| FE-WPP | Efficient Unit Heating System | Existing Unit Heaters in PA | Retail | Space Heating | Early | heater | 21,399 | 23% | 0.04 | 15 | \$3,289 | 83% | 0.7 |
| FE-WPP | Efficient Unit Heating System | Std. Unit Heater | Retail | Space Heating | New | heater | 18,992 | 13% | 0.02 | 15 | \$1,991 | 83% | 0.6 |
| FE-WPP | Efficient Unit Heating System | Std. Unit Heater | Retail | Space Heating | ROB | heater | 18,992 | 13% | 0.02 | 15 | \$1,991 | 83% | 0.6 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Retail | Space Heating | Existing | building | 17,920 | 7.1% | 0.07 | 15 | \$79,488 | 25% | 0.0 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Retail | Space Heating | New | building | 17,920 | 7.1% | 0.07 | 15 | \$79,488 | 35% | 0.0 |
| FE-WPP | Hi Eff HVAC System Design | No HVAC Design | Retail | Space Heating | New | building | 17,920 | 11% | 0.1 | 10 | \$176,830 | 51% | 0.0 |
| FE-WPP | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Retail | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 0.9 |
| FE-WPP | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Retail | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 0.9 |
| FE-WPP | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Retail | Space Heating | Existing | building | 17,920 | 2.3% | 0.02 | 10 | \$7,735 | 81% | 0.0 |
| FE-WPP | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Retail | Space Heating | New | building | 17,920 | 2.3% | 0.02 | 10 | \$7,735 | 81% | 0.0 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Retail | Space Heating | Existing | building | 17,920 | 3.6% | 0.04 | 11 | \$286 | 49% | 0.9 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Retail | Space Heating | New | building | 17,920 | 3.1% | 0.03 | 11 | \$146 | 49% | 1.5 |
| FE-WPP | Re-Commissioning (Existing Construction) | No Re-Commissioning | Retail | Space Heating | Existing | building | 17,920 | 16% | 0.2 | 5 | \$8,051 | 86% | 0.1 |
| FE-WPP | VFD on Cooling Tower Fan | Motor w/out VFD | Retail | Space Heating | Early | motor | 29,667 | 70% | 3.4 | 15 | \$2,843 | 88% | 4.4 |
| FE-WPP | VFD on Cooling Tower Fan | Motor w/out VFD | Retail | Space Heating | New | motor | 29,112 | 72% | 3.3 | 15 | \$2,843 | 88% | 4.4 |
| FE-WPP | VFD on Cooling Tower Fan | Motor w/out VFD | Retail | Space Heating | ROB | motor | 29,112 | 72% | 3.3 | 15 | \$2,843 | 88% | 4.4 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Retail | Space Heating | Existing | building | 17,920 | 8.1% | 0.08 | 15 | \$5,499 | 26% | 0.1 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Retail | Space Heating | New | building | 17,920 | 0.3% | 0.00 | 15 | \$4,218 | 94% | 0.0 |
| FE-WPP | Green LED Traffic Light | Green Incandescent Traffic Light | Retail | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 0% | 1.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|--|---|-----------------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Green LED Traffic Light | Green Incandescent Traffic Light | Retail | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| FE-WPP | Green LED Traffic Light | Green Incandescent Traffic Light | Retail | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| FE-WPP | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Retail | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 0% | 2.8 |
| FE-WPP | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Retail | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-WPP | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Retail | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-WPP | Induction Street Lighting | One 100W HPS Street Light Fixture | Retail | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 0% | 0.3 |
| FE-WPP | Induction Street Lighting | One 100W HPS Street Light Fixture | Retail | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.6 |
| FE-WPP | Induction Street Lighting | One 100W HPS Street Light Fixture | Retail | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.6 |
| FE-WPP | LED Street Lighting | One 100W HPS Street Light | Retail | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 0% | 0.2 |
| FE-WPP | LED Street Lighting | One 100W HPS Street Light | Retail | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-WPP | LED Street Lighting | One 100W HPS Street Light | Retail | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-WPP | Red LED Traffic Light | One Red Incandescent Traffic Light | Retail | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 0% | 1.5 |
| FE-WPP | Red LED Traffic Light | One Red Incandescent Traffic Light | Retail | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| FE-WPP | Red LED Traffic Light | One Red Incandescent Traffic Light | Retail | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| FE-WPP | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Retail | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 0% | 0.1 |
| FE-WPP | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Retail | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-WPP | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Retail | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-WPP | Demand controlled Circulating Systems | Constant circulation system | Retail | Water Heating | Existing | building | 6,456 | 20% | 0.2 | 15 | \$1,171 | 59% | 0.7 |
| FE-WPP | Demand controlled Circulating Systems | Constant circulation system | Retail | Water Heating | New | building | 6,456 | 20% | 0.2 | 15 | \$1,171 | 59% | 0.7 |
| FE-WPP | Drainwater Heat Recovery Water Heater | No heat recovery | Retail | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.7 |
| FE-WPP | Drainwater Heat Recovery Water Heater | No heat recovery | Retail | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.7 |
| FE-WPP | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Retail | Water Heating | Existing | building | 6,456 | 5.9% | 0.06 | 12 | \$14 | 85% | 14.1 |
| FE-WPP | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Retail | Water Heating | New | building | 6,456 | 5.9% | 0.06 | 12 | \$4.0 | 85% | 49.3 |
| FE-WPP | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Retail | Water Heating | Early | water heater | 4,077 | 66% | 0.5 | 10 | \$1,187 | 68% | 1.1 |
| FE-WPP | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Retail | Water Heating | Early | water heater | 4,077 | 66% | 0.5 | 10 | \$1,187 | 68% | 1.1 |
| FE-WPP | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Retail | Water Heating | New | water heater | 4,077 | 66% | 0.5 | 10 | \$1,187 | 68% | 1.1 |
| FE-WPP | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Retail | Water Heating | New | water heater | 4,077 | 66% | 0.5 | 10 | \$1,187 | 68% | 1.1 |
| FE-WPP | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Retail | Water Heating | ROB | water heater | 3,963 | 65% | 0.5 | 10 | \$1,187 | 68% | 1.0 |
| FE-WPP | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Retail | Water Heating | ROB | water heater | 3,963 | 65% | 0.5 | 10 | \$1,187 | 68% | 1.0 |
| FE-WPP | Heat Recovery Unit | Base Water Heating | Retail | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.5 |
| FE-WPP | Heat Recovery Unit | Base Water Heating | Retail | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.5 |
| FE-WPP | Heat Trap | No Heat Trap | Retail | Water Heating | Existing | building | 6,456 | 22% | 0.2 | 11 | \$44 | 50% | 15.8 |
| FE-WPP | Heat Trap | No Heat Trap | Retail | Water Heating | New | building | 6,456 | 22% | 0.2 | 11 | \$6.5 | 50% | 106.0 |
| FE-WPP | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Retail | Water Heating | Early | water heater | 4,077 | 5.9% | 0.04 | 15 | \$307 | 79% | 0.5 |
| FE-WPP | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Retail | Water Heating | Early | water heater | 4,077 | 5.9% | 0.04 | 15 | \$307 | 79% | 0.5 |
| FE-WPP | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Retail | Water Heating | New | water heater | 3,963 | 3.2% | 0.02 | 15 | \$307 | 79% | 0.3 |
| FE-WPP | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Retail | Water Heating | New | water heater | 3,963 | 3.2% | 0.02 | 15 | \$307 | 79% | 0.3 |
| FE-WPP | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Retail | Water Heating | ROB | water heater | 3,963 | 3.2% | 0.02 | 15 | \$307 | 79% | 0.3 |
| FE-WPP | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Retail | Water Heating | ROB | water heater | 3,963 | 3.2% | 0.02 | 15 | \$307 | 79% | 0.3 |
| FE-WPP | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Retail | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$466 | 81% | 36.2 |
| FE-WPP | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Retail | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 18.8 |
| FE-WPP | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Retail | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 18.8 |
| FE-WPP | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Retail | Water Heating | Existing | building | 6,456 | 0.5% | 0.01 | 13 | \$4.8 | 68% | 3.8 |
| FE-WPP | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Retail | Water Heating | New | building | 6,456 | 0.5% | 0.01 | 13 | \$4.8 | 0% | 3.8 |
| FE-WPP | Hot Water Circulation Pump Time-Clock | Constant circulation system | Retail | Water Heating | Existing | building | 6,456 | 5.3% | 0.05 | 10 | \$26 | 72% | 5.9 |
| FE-WPP | Hot Water Circulation Pump Time-Clock | Constant circulation system | Retail | Water Heating | New | building | 6,456 | 5.3% | 0.05 | 10 | \$26 | 72% | 5.9 |
| FE-WPP | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Retail | Water Heating | Existing | building | 5,940 | 2.3% | 0.02 | 7 | \$22 | 78% | 2.2 |
| FE-WPP | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Retail | Water Heating | New | building | 5,940 | 2.1% | 0.02 | 7 | \$0.5 | 78% | 88.5 |
| FE-WPP | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Retail | Water Heating | Existing | building | 6,456 | 3.0% | 0.03 | 5 | \$300 | 0% | 0.2 |
| FE-WPP | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Retail | Water Heating | New | building | 6,456 | 2.0% | 0.02 | 5 | \$194 | 0% | 0.2 |
| FE-WPP | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Retail | Water Heating | Existing | building | 6,456 | 6.5% | 0.07 | 9 | \$25 | 2% | 7.0 |
| FE-WPP | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Retail | Water Heating | New | building | 6,456 | 6.5% | 0.07 | 9 | \$6.0 | 2% | 29.4 |
| FE-WPP | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Retail | Water Heating | Early | water heater | 4,077 | 52% | 0.2 | 15 | \$6,222 | 32% | 0.2 |
| FE-WPP | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Retail | Water Heating | New | water heater | 3,963 | 51% | 0.2 | 15 | \$6,222 | 32% | 0.2 |
| FE-WPP | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Retail | Water Heating | ROB | water heater | 3,963 | 51% | 0.2 | 15 | \$6,222 | 32% | 0.2 |
| FE-WPP | Ultrasonic Faucet Control | Manual Faucet Control | Retail | Water Heating | Existing | building | 6,456 | 3.0% | 0.03 | 10 | \$1,117 | 77% | 0.1 |
| FE-WPP | Ultrasonic Faucet Control | Manual Faucet Control | Retail | Water Heating | New | building | 6,456 | 3.0% | 0.03 | 10 | \$1,117 | 77% | 0.1 |
| FE-WPP | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Retail | Water Heating | Existing | building | 6,456 | 2.2% | 0.02 | 4 | \$28 | 83% | 1.1 |
| FE-WPP | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Retail | Water Heating | New | building | 6,456 | 2.3% | 0.02 | 4 | \$28 | 83% | 1.2 |
| FE-WPP | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Street Lighting | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.0 |
| FE-WPP | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Street Lighting | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.0 |
| FE-WPP | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Street Lighting | Cooking | Early | steamer | 51 | 46% | 0.00 | 12 | \$5,053 | 81% | 0.0 |
| FE-WPP | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Street Lighting | Cooking | New | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-WPP | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Street Lighting | Cooking | ROB | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-WPP | Electric combination oven (Energy Star) | Standard Oven | Street Lighting | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.8 |
| FE-WPP | Electric combination oven (Energy Star) | Standard Oven | Street Lighting | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.8 |
| FE-WPP | Electric Convection Oven | Conventional convection oven w/ 65% efficiency | Street Lighting | Cooking | Early | oven | 8,641 | 37% | 0.6 | 12 | \$4,119 | 81% | 0.4 |
| FE-WPP | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Street Lighting | Cooking | New | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.7 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|--|---|-----------------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Street Lighting | Cooking | ROB | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.7 |
| FE-WPP | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Street Lighting | Cooking | Early | fryer | 6,105 | 23% | 0.3 | 12 | \$9,241 | 86% | 0.1 |
| FE-WPP | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Street Lighting | Cooking | New | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| FE-WPP | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Street Lighting | Cooking | ROB | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| FE-WPP | High Efficiency Griddle (ENERGY STAR) | Efficiency code minimum griddle (70% eff) | Street Lighting | Cooking | Early | griddle | 11,317 | 65% | 1.4 | 12 | \$4,977 | 86% | 0.8 |
| FE-WPP | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Street Lighting | Cooking | New | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.1 |
| FE-WPP | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Street Lighting | Cooking | ROB | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.1 |
| FE-WPP | High Efficiency Induction Cooking | Standard Cooking | Street Lighting | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-WPP | High Efficiency Induction Cooking | Standard Cooking | Street Lighting | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Street Lighting | Cooling Central | Existing | building | 1,582 | 7.0% | 0.07 | 6 | \$12,437 | 82% | 0.0 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Street Lighting | Cooling Central | New | building | 1,582 | 7.0% | 0.07 | 6 | \$12,437 | 82% | 0.0 |
| FE-WPP | Adding window shade film | No shade film | Street Lighting | Cooling Central | Existing | building | 1,582 | 1.3% | 0.4 | 10 | \$19 | 12% | 13.0 |
| FE-WPP | Adding window shade film | No shade film | Street Lighting | Cooling Central | New | building | 1,582 | 1.3% | 0.4 | 10 | \$19 | 13% | 13.0 |
| FE-WPP | Adding window shade screen | No shade screen | Street Lighting | Cooling Central | Existing | building | 1,582 | 1.1% | 0.01 | 10 | \$7.4 | 13% | 1.7 |
| FE-WPP | Adding window shade screen | No shade screen | Street Lighting | Cooling Central | New | building | 1,582 | 1.0% | 0.01 | 10 | \$7.4 | 13% | 1.7 |
| FE-WPP | Automated control system | Manual Controls | Street Lighting | Cooling Central | Existing | building | 1,582 | 17% | 0.2 | 15 | \$1,732 | 51% | 0.2 |
| FE-WPP | Automated control system | Manual Controls | Street Lighting | Cooling Central | New | building | 1,582 | 17% | 0.2 | 15 | \$1,732 | 94% | 0.2 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Street Lighting | Cooling Central | Existing | building | 1,582 | 6.2% | 0.06 | 15 | \$17,130 | 71% | 0.0 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Street Lighting | Cooling Central | New | building | 1,582 | 2.1% | 0.02 | 15 | \$16,283 | 94% | 0.0 |
| FE-WPP | Chiller Tuneup/Diagnostics | No tuneup | Street Lighting | Cooling Central | Existing | building | 1,582 | 8.0% | 0.08 | 10 | \$4,040 | 59% | 0.0 |
| FE-WPP | Chiller Tuneup/Diagnostics | No tuneup | Street Lighting | Cooling Central | New | building | 1,582 | 8.0% | 0.08 | 10 | \$4,040 | 59% | 0.0 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Street Lighting | Cooling Central | Existing | building | 1,582 | 1.4% | 0.04 | 15 | \$13 | 20% | 3.6 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Street Lighting | Cooling Central | New | building | 1,582 | 1.4% | 0.04 | 15 | \$13 | 10% | 3.6 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Street Lighting | Cooling Central | Existing | building | 1,582 | 7.0% | 0.07 | 15 | \$7,017 | 25% | 0.0 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Street Lighting | Cooling Central | New | building | 1,582 | 7.0% | 0.07 | 15 | \$7,017 | 35% | 0.0 |
| FE-WPP | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | Early | ton | 5,094 | 24% | 0.4 | 15 | \$108,550 | 88% | 0.0 |
| FE-WPP | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | New | ton | 4,164 | 6.7% | 0.10 | 15 | \$12,927 | 88% | 0.0 |
| FE-WPP | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | ROB | ton | 4,164 | 6.7% | 0.10 | 15 | \$12,927 | 88% | 0.0 |
| FE-WPP | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | Early | ton | 7,611 | 23% | 0.6 | 15 | \$140,105 | 88% | 0.0 |
| FE-WPP | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | New | ton | 6,124 | 4.8% | 0.1 | 15 | \$9,336 | 88% | 0.0 |
| FE-WPP | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | ROB | ton | 6,124 | 4.8% | 0.1 | 15 | \$9,336 | 88% | 0.0 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | Early | ton | 62,308 | 26% | 5.6 | 15 | \$105,354 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | New | ton | 54,288 | 15% | 2.8 | 15 | \$30,530 | 88% | 0.2 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | ROB | ton | 54,288 | 15% | 2.8 | 15 | \$30,530 | 88% | 0.2 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | Early | ton | 93,320 | 23% | 7.4 | 15 | \$154,107 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | New | ton | 85,726 | 16% | 4.8 | 15 | \$27,646 | 88% | 0.4 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | ROB | ton | 93,320 | 23% | 7.4 | 15 | \$27,646 | 88% | 0.6 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | Early | ton | 154,988 | 23% | 12.2 | 15 | \$302,924 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | New | ton | 140,275 | 14% | 7.0 | 15 | \$115,432 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | ROB | ton | 154,988 | 23% | 12.2 | 15 | \$115,432 | 88% | 0.2 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | Early | ton | 185,985 | 23% | 14.6 | 15 | \$350,154 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | New | ton | 168,330 | 14% | 8.5 | 15 | \$120,406 | 88% | 0.2 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | ROB | ton | 185,985 | 23% | 14.6 | 15 | \$120,406 | 88% | 0.3 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | Early | ton | 41,225 | 29% | 4.2 | 15 | \$83,632 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | New | ton | 32,011 | 8.9% | 1.0 | 15 | \$40,211 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | ROB | ton | 41,225 | 29% | 4.2 | 15 | \$40,211 | 88% | 0.2 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | Early | ton | 70,835 | 35% | 8.6 | 15 | \$132,173 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | New | ton | 52,831 | 13% | 2.3 | 15 | \$39,556 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | ROB | ton | 52,831 | 13% | 2.3 | 15 | \$39,556 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | Early | ton | 118,265 | 39% | 16.1 | 15 | \$187,029 | 88% | 0.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|--|---|-----------------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | New | ton | 84,321 | 15% | 4.3 | 15 | \$33,554 | 88% | 0.3 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | ROB | ton | 118,265 | 39% | 16.1 | 15 | \$33,554 | 88% | 1.1 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | Early | ton | 20,695 | 30% | 2.1 | 15 | \$32,398 | 88% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | New | ton | 16,396 | 11% | 0.6 | 15 | \$7,188 | 88% | 0.2 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | ROB | ton | 20,695 | 30% | 2.1 | 15 | \$7,188 | 88% | 0.7 |
| FE-WPP | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Street Lighting | Cooling Central | Existing | building | 1,582 | 2.2% | 0.02 | 10 | \$10,066 | 81% | 0.0 |
| FE-WPP | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Street Lighting | Cooling Central | New | building | 1,582 | 2.2% | 0.02 | 10 | \$10,066 | 81% | 0.0 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Street Lighting | Cooling Central | Existing | building | 1,582 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.1 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Street Lighting | Cooling Central | New | building | 1,582 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.2 |
| FE-WPP | Re-Commissioning (Existing Construction) | No Re-Commissioning | Street Lighting | Cooling Central | Existing | building | 1,582 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Street Lighting | Cooling Central | Existing | building | 1,582 | 11% | 0.1 | 15 | \$3,285 | 26% | 0.1 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Street Lighting | Cooling Central | New | building | 1,582 | 0.3% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| FE-WPP | <65k BTU/hr 14 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Street Lighting | Cooling Unitary | Early | ton | 2,614 | 16% | 0.2 | 15 | \$1,545 | 29% | 0.3 |
| FE-WPP | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Street Lighting | Cooling Unitary | New | ton | 2,368 | 7.1% | 0.09 | 15 | \$339 | 29% | 0.5 |
| FE-WPP | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Street Lighting | Cooling Unitary | ROB | ton | 2,368 | 7.1% | 0.09 | 15 | \$339 | 29% | 0.5 |
| FE-WPP | <65k BTU/hr 15 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Street Lighting | Cooling Unitary | Early | ton | 2,614 | 22% | 0.3 | 15 | \$1,821 | 30% | 0.3 |
| FE-WPP | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Street Lighting | Cooling Unitary | New | ton | 2,368 | 13% | 0.2 | 15 | \$714 | 30% | 0.4 |
| FE-WPP | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Street Lighting | Cooling Unitary | ROB | ton | 2,368 | 13% | 0.2 | 15 | \$714 | 30% | 0.4 |
| FE-WPP | <65k BTU/hr 16 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Street Lighting | Cooling Unitary | Early | ton | 2,614 | 26% | 0.4 | 15 | \$2,098 | 31% | 0.3 |
| FE-WPP | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Street Lighting | Cooling Unitary | New | ton | 2,368 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.4 |
| FE-WPP | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Street Lighting | Cooling Unitary | ROB | ton | 2,368 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.4 |
| FE-WPP | >760k min 10.2 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Street Lighting | Cooling Unitary | Early | ton | 66,142 | 3.7% | 1.3 | 15 | \$68,066 | 56% | 0.0 |
| FE-WPP | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Street Lighting | Cooling Unitary | New | ton | 66,990 | 4.9% | 1.7 | 15 | \$6,231 | 56% | 0.5 |
| FE-WPP | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Street Lighting | Cooling Unitary | ROB | ton | 66,990 | 4.9% | 1.7 | 15 | \$6,231 | 56% | 0.5 |
| FE-WPP | 135-240k min 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Street Lighting | Cooling Unitary | Early | ton | 16,274 | 18% | 1.6 | 15 | \$18,135 | 79% | 0.2 |
| FE-WPP | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Street Lighting | Cooling Unitary | New | ton | 14,804 | 10.0% | 0.8 | 15 | \$1,948 | 79% | 0.7 |
| FE-WPP | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Street Lighting | Cooling Unitary | ROB | ton | 14,804 | 10.0% | 0.8 | 15 | \$1,948 | 79% | 0.7 |
| FE-WPP | 240k-760k min 11 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Street Lighting | Cooling Unitary | Early | ton | 43,515 | 9.0% | 2.1 | 15 | \$44,809 | 66% | 0.1 |
| FE-WPP | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Street Lighting | Cooling Unitary | New | ton | 43,623 | 9.3% | 2.1 | 15 | \$4,813 | 66% | 0.8 |
| FE-WPP | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Street Lighting | Cooling Unitary | ROB | ton | 43,623 | 9.3% | 2.1 | 15 | \$4,813 | 66% | 0.8 |
| FE-WPP | 65k-135k BTU/hr 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Street Lighting | Cooling Unitary | Early | ton | 9,594 | 17% | 0.9 | 15 | \$10,946 | 86% | 0.1 |
| FE-WPP | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Street Lighting | Cooling Unitary | New | ton | 8,550 | 6.7% | 0.3 | 15 | \$1,392 | 86% | 0.4 |
| FE-WPP | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Street Lighting | Cooling Unitary | ROB | ton | 8,550 | 6.7% | 0.3 | 15 | \$1,392 | 86% | 0.4 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Street Lighting | Cooling Unitary | Existing | building | 23,642 | 7.0% | 0.07 | 6 | \$12,435 | 82% | 0.0 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Street Lighting | Cooling Unitary | New | building | 23,642 | 7.0% | 0.07 | 6 | \$12,435 | 82% | 0.0 |
| FE-WPP | Adding window shade film | No shade film | Street Lighting | Cooling Unitary | Existing | building | 23,642 | 1.3% | 0.4 | 10 | \$288 | 12% | 1.2 |
| FE-WPP | Adding window shade film | No shade film | Street Lighting | Cooling Unitary | New | building | 23,642 | 1.3% | 0.4 | 10 | \$288 | 13% | 1.2 |
| FE-WPP | Adding window shade screen | No shade screen | Street Lighting | Cooling Unitary | Existing | building | 23,642 | 1.1% | 0.01 | 10 | \$111 | 12% | 0.9 |
| FE-WPP | Adding window shade screen | No shade screen | Street Lighting | Cooling Unitary | New | building | 23,642 | 1.1% | 0.01 | 10 | \$111 | 13% | 0.9 |
| FE-WPP | Automated control system | Manual Controls | Street Lighting | Cooling Unitary | Existing | building | 23,642 | 17% | 0.2 | 15 | \$25,882 | 51% | 0.1 |
| FE-WPP | Automated control system | Manual Controls | Street Lighting | Cooling Unitary | New | building | 23,642 | 17% | 0.2 | 15 | \$25,882 | 94% | 0.1 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Street Lighting | Cooling Unitary | Existing | building | 23,642 | 6.2% | 0.06 | 15 | \$17,130 | 71% | 0.0 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Street Lighting | Cooling Unitary | New | building | 23,642 | 2.1% | 0.02 | 15 | \$16,283 | 94% | 0.0 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Street Lighting | Cooling Unitary | Existing | building | 23,642 | 1.4% | 0.04 | 15 | \$188 | 20% | 1.0 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Street Lighting | Cooling Unitary | New | building | 23,642 | 1.4% | 0.04 | 15 | \$188 | 10% | 1.0 |
| FE-WPP | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Street Lighting | Cooling Unitary | Existing | building | 13,003 | 13% | 0.1 | 1 | \$125 | 73% | 0.7 |
| FE-WPP | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Street Lighting | Cooling Unitary | New | building | 13,003 | 13% | 0.1 | 1 | \$125 | 73% | 0.7 |
| FE-WPP | ECM Motors for split systems | Std Shaded Pole Motor | Street Lighting | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.7 |
| FE-WPP | ECM Motors for split systems | Std Shaded Pole Motor | Street Lighting | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.7 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Street Lighting | Cooling Unitary | Existing | building | 23,642 | 7.1% | 0.07 | 15 | \$104,869 | 25% | 0.0 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Street Lighting | Cooling Unitary | New | building | 23,642 | 7.1% | 0.07 | 15 | \$104,869 | 35% | 0.0 |
| FE-WPP | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Street Lighting | Cooling Unitary | Existing | building | 23,642 | 5.0% | 0.05 | 5 | \$225 | 59% | 1.2 |
| FE-WPP | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Street Lighting | Cooling Unitary | Existing | building | 23,642 | 0.5% | 0.04 | 5 | \$225 | 51% | 0.2 |
| FE-WPP | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Street Lighting | Cooling Unitary | New | building | 23,642 | 0.4% | 0.04 | 5 | \$135 | 51% | 0.3 |
| FE-WPP | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Street Lighting | Cooling Unitary | Existing | building | 23,642 | 2.2% | 0.02 | 10 | \$10,818 | 86% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|--|---|-----------------|-----------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Street Lighting | Cooling Unitary | New | building | 23,642 | 2.2% | 0.02 | 10 | \$10,818 | 86% | 0.0 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) | Street Lighting | Cooling Unitary | Existing | building | 23,642 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.7 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Street Lighting | Cooling Unitary | New | building | 23,642 | 1.7% | 0.02 | 11 | \$146 | 49% | 1.1 |
| FE-WPP | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Street Lighting | Cooling Unitary | Early | unit | 779 | 19% | 0.09 | 15 | \$849 | 85% | 0.2 |
| FE-WPP | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Street Lighting | Cooling Unitary | New | unit | 787 | 20% | 0.09 | 15 | \$356 | 85% | 0.4 |
| FE-WPP | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Street Lighting | Cooling Unitary | ROB | unit | 787 | 20% | 0.09 | 15 | \$356 | 85% | 0.4 |
| FE-WPP | Re-Commissioning (Existing Construction) | No Re-Commissioning | Street Lighting | Cooling Unitary | Existing | building | 23,642 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.1 |
| FE-WPP | Room AC (w/ louvered sides) | Existing efficiency Room AC in Pennsylvania (2000 Federal Standards) | Street Lighting | Cooling Unitary | Early | ton | 1,185 | 13% | 0.06 | 9 | \$348 | 82% | 0.2 |
| FE-WPP | Room AC (w/ louvered sides) | Std Room AC (Code Min. Federal Standards) | Street Lighting | Cooling Unitary | New | ton | 1,074 | 4.5% | 0.02 | 9 | \$17 | 82% | 1.5 |
| FE-WPP | Room AC (w/ louvered sides) | Std Room AC (Code Min. Federal Standards) | Street Lighting | Cooling Unitary | ROB | ton | 1,074 | 4.5% | 0.02 | 9 | \$17 | 82% | 1.5 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Street Lighting | Cooling Unitary | Existing | building | 23,642 | 11% | 0.1 | 15 | \$3,285 | 26% | 0.4 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Street Lighting | Cooling Unitary | New | building | 23,642 | 0.3% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| FE-WPP | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Street Lighting | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 1.0 |
| FE-WPP | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Street Lighting | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.3 |
| FE-WPP | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Street Lighting | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.3 |
| FE-WPP | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Street Lighting | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 0% | 0.2 |
| FE-WPP | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Street Lighting | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-WPP | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Street Lighting | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-WPP | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Street Lighting | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 53% | 0.3 |
| FE-WPP | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Street Lighting | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 53% | 0.2 |
| FE-WPP | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Street Lighting | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 53% | 2.6 |
| FE-WPP | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Street Lighting | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 53% | 2.0 |
| FE-WPP | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Street Lighting | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 53% | 2.6 |
| FE-WPP | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Street Lighting | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 53% | 2.0 |
| FE-WPP | Photocell Controls (Outdoor) | Lighting w/ No Controls | Street Lighting | Ext. Lighting | Existing | building | 291 | 28% | 0.3 | 8 | \$5,088 | 88% | 0.0 |
| FE-WPP | Photocell Controls (Outdoor) | Lighting w/ No Controls | Street Lighting | Ext. Lighting | New | building | 291 | 28% | 0.3 | 8 | \$5,088 | 0% | 0.0 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Street Lighting | Heat Pump | Existing | building | 2,541 | 6.9% | 0.07 | 6 | \$12,435 | 82% | 0.0 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Street Lighting | Heat Pump | New | building | 2,541 | 6.9% | 0.07 | 6 | \$12,435 | 82% | 0.0 |
| FE-WPP | Adding window shade film | No shade film | Street Lighting | Heat Pump | Existing | building | 2,541 | 3.9% | 0.4 | 10 | \$31 | 12% | 8.9 |
| FE-WPP | Adding window shade film | No shade film | Street Lighting | Heat Pump | New | building | 2,541 | 3.9% | 0.4 | 10 | \$31 | 12% | 8.9 |
| FE-WPP | Adding window shade screen | No shade screen | Street Lighting | Heat Pump | Existing | building | 2,541 | 0.3% | 0.01 | 10 | \$4.0 | 12% | 2.4 |
| FE-WPP | Adding window shade screen | No shade screen | Street Lighting | Heat Pump | New | building | 2,541 | 0.3% | 0.01 | 10 | \$4.0 | 12% | 2.4 |
| FE-WPP | Automated control system | Manual Controls | Street Lighting | Heat Pump | Existing | building | 2,541 | 17% | 0.2 | 15 | \$2,782 | 51% | 0.1 |
| FE-WPP | Automated control system | Manual Controls | Street Lighting | Heat Pump | New | building | 2,541 | 17% | 0.2 | 15 | \$2,782 | 94% | 0.1 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Street Lighting | Heat Pump | Existing | building | 2,541 | 6.2% | 0.06 | 15 | \$17,130 | 71% | 0.0 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Street Lighting | Heat Pump | New | building | 2,541 | 2.1% | 0.02 | 15 | \$16,283 | 94% | 0.0 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Street Lighting | Heat Pump | Existing | building | 2,541 | 4.0% | 0.04 | 15 | \$20 | 12% | 4.1 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Street Lighting | Heat Pump | New | building | 2,541 | 4.0% | 0.04 | 15 | \$20 | 6% | 4.1 |
| FE-WPP | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Street Lighting | Heat Pump | Early | heat pump | 2,289 | 12% | 0.02 | 15 | \$4,070 | 83% | 0.0 |
| FE-WPP | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Street Lighting | Heat Pump | New | heat pump | 2,182 | 7.8% | 0.01 | 15 | \$1,097 | 83% | 0.1 |
| FE-WPP | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Street Lighting | Heat Pump | ROB | heat pump | 2,182 | 7.8% | 0.01 | 15 | \$1,097 | 83% | 0.1 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Street Lighting | Heat Pump | Existing | building | 2,541 | 7.0% | 0.07 | 15 | \$11,271 | 25% | 0.0 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Street Lighting | Heat Pump | New | building | 2,541 | 7.0% | 0.07 | 15 | \$11,271 | 35% | 0.0 |
| FE-WPP | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Street Lighting | Heat Pump | Early | heat pump | 23,587 | 16% | 0.3 | 15 | \$91,117 | 19% | 0.0 |
| FE-WPP | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Street Lighting | Heat Pump | New | heat pump | 22,730 | 13% | 0.3 | 15 | \$33,927 | 19% | 0.0 |
| FE-WPP | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Street Lighting | Heat Pump | ROB | heat pump | 22,730 | 13% | 0.3 | 15 | \$33,927 | 19% | 0.0 |
| FE-WPP | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Street Lighting | Heat Pump | Early | heat pump | 23,587 | 16% | 0.3 | 15 | \$58,356 | 19% | 0.0 |
| FE-WPP | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Street Lighting | Heat Pump | New | heat pump | 22,730 | 13% | 0.3 | 15 | \$1,167 | 19% | 1.4 |
| FE-WPP | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Street Lighting | Heat Pump | ROB | heat pump | 22,730 | 13% | 0.3 | 15 | \$1,167 | 19% | 1.4 |
| FE-WPP | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Street Lighting | Heat Pump | Early | heat pump | 6,103 | 17% | 0.09 | 12 | \$4,298 | 81% | 0.1 |
| FE-WPP | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Street Lighting | Heat Pump | New | heat pump | 5,819 | 12% | 0.06 | 12 | \$852 | 81% | 0.4 |
| FE-WPP | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Street Lighting | Heat Pump | ROB | heat pump | 5,819 | 12% | 0.06 | 12 | \$852 | 81% | 0.4 |
| FE-WPP | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Street Lighting | Heat Pump | Existing | building | 2,541 | 5.0% | 0.01 | 5 | \$90 | 51% | 0.3 |
| FE-WPP | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Street Lighting | Heat Pump | New | building | 2,541 | 5.0% | 0.01 | 5 | \$90 | 51% | 0.3 |
| FE-WPP | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Street Lighting | Heat Pump | Existing | building | 2,541 | 2.2% | 0.02 | 10 | \$9,632 | 81% | 0.0 |
| FE-WPP | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Street Lighting | Heat Pump | New | building | 2,541 | 2.2% | 0.02 | 10 | \$9,632 | 81% | 0.0 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Street Lighting | Heat Pump | Existing | building | 2,541 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.1 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Street Lighting | Heat Pump | New | building | 2,541 | 2.1% | 0.02 | 11 | \$146 | 49% | 0.2 |
| FE-WPP | Re-Commissioning (Existing Construction) | No Re-Commissioning | Street Lighting | Heat Pump | Existing | building | 2,541 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|---|-----------------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Wall Insualtions (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Street Lighting | Heat Pump | Existing | building | 2,541 | 11% | 0.1 | 15 | \$3,285 | 26% | 0.1 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Street Lighting | Heat Pump | New | building | 2,541 | 0.3% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| FE-WPP | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Street Lighting | Heat Pump | Early | heat pump | 9,790 | 35% | 0.3 | 15 | \$35,347 | 28% | 0.1 |
| FE-WPP | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Street Lighting | Heat Pump | New | heat pump | 9,304 | 31% | 0.3 | 15 | \$15,739 | 28% | 0.1 |
| FE-WPP | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Street Lighting | Heat Pump | ROB | heat pump | 9,304 | 31% | 0.3 | 15 | \$15,739 | 28% | 0.1 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 299 | 9.6% | 0.01 | 13 | \$850 | 39% | 0.0 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Street Lighting | High Bay Lighting | Early | Fixture | 299 | 9.5% | 0.01 | 13 | \$850 | 28% | 0.0 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 461 | 41% | 0.04 | 13 | \$850 | 36% | 0.1 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | New | Fixture | 227 | 9.6% | 0.00 | 13 | \$372 | 39% | 0.0 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Street Lighting | High Bay Lighting | New | Fixture | 211 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | New | Fixture | 350 | 41% | 0.03 | 13 | \$397 | 36% | 0.2 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 299 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.0 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 278 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 461 | 41% | 0.04 | 13 | \$397 | 36% | 0.3 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 580 | 19% | 0.02 | 13 | \$851 | 38% | 0.1 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Street Lighting | High Bay Lighting | Early | Fixture | 587 | 20% | 0.02 | 13 | \$851 | 38% | 0.1 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 1,708 | 73% | 0.2 | 13 | \$851 | 38% | 0.8 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | New | Fixture | 441 | 19% | 0.02 | 13 | \$372 | 38% | 0.1 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | New | Fixture | 1,298 | 73% | 0.2 | 13 | \$383 | 38% | 1.4 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 580 | 19% | 0.02 | 13 | \$372 | 38% | 0.2 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 1,708 | 73% | 0.2 | 13 | \$383 | 38% | 1.9 |
| FE-WPP | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 580 | 25% | 0.03 | 13 | \$554 | 29% | 0.2 |
| FE-WPP | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Street Lighting | High Bay Lighting | Early | Fixture | 569 | 23% | 0.03 | 13 | \$554 | 28% | 0.1 |
| FE-WPP | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 1,708 | 74% | 0.2 | 13 | \$554 | 36% | 1.3 |
| FE-WPP | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | New | Fixture | 441 | 25% | 0.02 | 13 | \$75 | 29% | 0.8 |
| FE-WPP | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | New | Fixture | 1,298 | 74% | 0.2 | 13 | \$86 | 36% | 6.6 |
| FE-WPP | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 580 | 25% | 0.03 | 13 | \$75 | 29% | 1.1 |
| FE-WPP | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 1,708 | 74% | 0.2 | 13 | \$86 | 36% | 8.7 |
| FE-WPP | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Street Lighting | High Bay Lighting | Early | Fixture | 151 | 0.2% | 0.00 | 13 | \$835 | 38% | 0.0 |
| FE-WPP | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 326 | 54% | 0.03 | 13 | \$835 | 38% | 0.1 |
| FE-WPP | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | New | Fixture | 248 | 54% | 0.03 | 13 | \$382 | 38% | 0.2 |
| FE-WPP | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 326 | 54% | 0.03 | 13 | \$382 | 38% | 0.3 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 739 | 18% | 0.03 | 13 | \$487 | 25% | 0.2 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Street Lighting | High Bay Lighting | Early | Fixture | 773 | 22% | 0.03 | 13 | \$487 | 28% | 0.2 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 1,708 | 65% | 0.2 | 13 | \$487 | 36% | 1.3 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | New | Fixture | 562 | 18% | 0.02 | 13 | \$16 | 25% | 3.7 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | New | Fixture | 1,298 | 65% | 0.2 | 13 | \$18 | 36% | 26.6 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 739 | 18% | 0.03 | 13 | \$16 | 25% | 4.8 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 1,708 | 65% | 0.2 | 13 | \$18 | 36% | 35.0 |
| FE-WPP | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 739 | 1.5% | 0.00 | 13 | \$557 | 19% | 0.0 |
| FE-WPP | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Street Lighting | High Bay Lighting | Early | Fixture | 761 | 4.3% | 0.01 | 13 | \$557 | 19% | 0.0 |
| FE-WPP | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 1,708 | 57% | 0.2 | 13 | \$557 | 19% | 1.0 |
| FE-WPP | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | New | Fixture | 562 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| FE-WPP | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | New | Fixture | 1,298 | 57% | 0.1 | 13 | \$88 | 19% | 4.9 |
| FE-WPP | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 739 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| FE-WPP | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 1,708 | 57% | 0.2 | 13 | \$88 | 19% | 6.5 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 314 | 29% | 0.01 | 13 | \$492 | 71% | 0.1 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 262 | 15% | 0.01 | 13 | \$492 | 95% | 0.0 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 390 | 43% | 0.02 | 13 | \$492 | 95% | 0.2 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 361 | 38% | 0.02 | 13 | \$492 | 95% | 0.2 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | New | Fixture | 199 | 15% | 0.00 | 13 | \$25 | 95% | 0.6 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | New | Fixture | 296 | 43% | 0.02 | 13 | \$51 | 95% | 1.3 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 262 | 15% | 0.01 | 13 | \$25 | 95% | 0.9 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 390 | 43% | 0.02 | 13 | \$51 | 95% | 1.7 |
| FE-WPP | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Street Lighting | High Bay Lighting | Early | lamp | 87 | 16% | 0.00 | 12 | \$7.7 | 99% | 1.0 |
| FE-WPP | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Street Lighting | High Bay Lighting | New | lamp | 52 | 13% | 0.00 | 12 | \$1.6 | 91% | 2.3 |
| FE-WPP | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Street Lighting | High Bay Lighting | ROB | lamp | 84 | 13% | 0.00 | 12 | \$1.6 | 91% | 3.7 |
| FE-WPP | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 1,748 | 23% | 0.08 | 13 | \$613 | 5% | 0.4 |
| FE-WPP | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Street Lighting | High Bay Lighting | Early | Fixture | 1,373 | 1.6% | 0.00 | 13 | \$613 | 28% | 0.0 |
| FE-WPP | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 3,417 | 60% | 0.4 | 13 | \$613 | 18% | 2.0 |
| FE-WPP | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | New | Fixture | 1,329 | 23% | 0.06 | 13 | \$96 | 5% | 1.8 |
| FE-WPP | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 1,748 | 23% | 0.08 | 13 | \$96 | 5% | 2.4 |
| FE-WPP | Auto Off Time Switch | Lighting w/ No Controls | Street Lighting | High Bay Lighting | Existing | building | 797 | 24% | 0.2 | 8 | \$1,034 | 13% | 0.2 |
| FE-WPP | Auto Off Time Switch | Lighting w/ No Controls | Street Lighting | High Bay Lighting | New | building | 797 | 6.9% | 0.07 | 8 | \$1,034 | 0% | 0.1 |
| FE-WPP | Central Lighting Control System | Lighting w/ No Controls | Street Lighting | High Bay Lighting | Existing | building | 797 | 38% | 0.4 | 8 | \$1,034 | 13% | 0.3 |
| FE-WPP | Central Lighting Control System | Lighting w/ No Controls | Street Lighting | High Bay Lighting | New | building | 797 | 14% | 0.1 | 8 | \$1,034 | 13% | 0.1 |
| FE-WPP | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Street Lighting | High Bay Lighting | New | building | 797 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.0 |
| FE-WPP | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Street Lighting | High Bay Lighting | New | building | 797 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |
| FE-WPP | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Street Lighting | High Bay Lighting | New | building | 797 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| FE-WPP | Indoor Daylight Sensors | Lighting w/ No Controls | Street Lighting | High Bay Lighting | Existing | building | 797 | 28% | 0.3 | 8 | \$5,088 | 13% | 0.0 |
| FE-WPP | Indoor Daylight Sensors | Lighting w/ No Controls | Street Lighting | High Bay Lighting | New | building | 797 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| FE-WPP | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 1,748 | 92% | 0.3 | 13 | \$1,916 | 95% | 0.5 |
| FE-WPP | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 3,417 | 96% | 0.6 | 13 | \$1,916 | 95% | 1.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|--|-----------------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | New | Fixture | 1,329 | 92% | 0.2 | 13 | \$1,468 | 95% | 0.5 |
| FE-WPP | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | New | Fixture | 2,597 | 96% | 0.5 | 13 | \$1,149 | 95% | 1.3 |
| FE-WPP | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 1,748 | 92% | 0.3 | 13 | \$1,468 | 95% | 0.6 |
| FE-WPP | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 3,417 | 96% | 0.6 | 13 | \$1,149 | 95% | 1.7 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 580 | 67% | 0.07 | 13 | \$960 | 95% | 0.2 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 1,708 | 89% | 0.3 | 13 | \$960 | 95% | 0.9 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 469 | 59% | 0.05 | 13 | \$960 | 95% | 0.2 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | New | Fixture | 441 | 67% | 0.06 | 13 | \$480 | 95% | 0.4 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | New | Fixture | 1,298 | 89% | 0.2 | 13 | \$491 | 95% | 1.4 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Street Lighting | High Bay Lighting | New | Fixture | 356 | 59% | 0.04 | 13 | \$406 | 95% | 0.3 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 580 | 67% | 0.07 | 13 | \$480 | 95% | 0.5 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 1,708 | 89% | 0.3 | 13 | \$491 | 95% | 1.8 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 469 | 59% | 0.05 | 13 | \$406 | 95% | 0.4 |
| FE-WPP | Occupancy Sensor | Lighting w/ No Controls | Street Lighting | High Bay Lighting | Existing | building | 797 | 24% | 0.2 | 8 | \$1,558 | 11% | 0.1 |
| FE-WPP | Occupancy Sensor | Lighting w/ No Controls | Street Lighting | High Bay Lighting | New | building | 797 | 6.9% | 0.07 | 8 | \$1,558 | 0% | 0.0 |
| FE-WPP | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Street Lighting | High Bay Lighting | Existing | building | 797 | 28% | 0.3 | 8 | \$5,088 | 11% | 0.0 |
| FE-WPP | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Street Lighting | High Bay Lighting | New | building | 797 | 4.0% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| FE-WPP | Time Clock Control | Lighting w/ No Controls | Street Lighting | High Bay Lighting | Existing | building | 797 | 28% | 0.3 | 8 | \$1,034 | 13% | 0.2 |
| FE-WPP | Time Clock Control | Lighting w/ No Controls | Street Lighting | High Bay Lighting | New | building | 797 | 4.1% | 0.04 | 8 | \$1,034 | 0% | 0.0 |
| FE-WPP | Auto Off Time Switch | Lighting w/ No Controls | Street Lighting | Lin. Fluor. Lighting | Existing | building | 25,336 | 24% | 0.2 | 8 | \$1,034 | 13% | 1.9 |
| FE-WPP | Auto Off Time Switch | Lighting w/ No Controls | Street Lighting | Lin. Fluor. Lighting | New | building | 25,336 | 7.0% | 0.07 | 8 | \$1,034 | 0% | 0.5 |
| FE-WPP | Central Lighting Control System | Lighting w/ No Controls | Street Lighting | Lin. Fluor. Lighting | Existing | building | 25,336 | 38% | 0.4 | 8 | \$1,034 | 12% | 3.0 |
| FE-WPP | Central Lighting Control System | Lighting w/ No Controls | Street Lighting | Lin. Fluor. Lighting | New | building | 25,336 | 14% | 0.1 | 8 | \$1,034 | 12% | 1.1 |
| FE-WPP | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Street Lighting | Lin. Fluor. Lighting | New | building | 25,336 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.0 |
| FE-WPP | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Street Lighting | Lin. Fluor. Lighting | New | building | 25,336 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |
| FE-WPP | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Street Lighting | Lin. Fluor. Lighting | New | building | 25,336 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| FE-WPP | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Street Lighting | Lin. Fluor. Lighting | Early | Lamp | 175 | 38% | 0.01 | 12 | \$7.3 | 94% | 5.0 |
| FE-WPP | Indoor Daylight Sensors | Lighting w/ No Controls | Street Lighting | Lin. Fluor. Lighting | Existing | building | 25,336 | 28% | 0.3 | 8 | \$5,088 | 13% | 0.4 |
| FE-WPP | Indoor Daylight Sensors | Lighting w/ No Controls | Street Lighting | Lin. Fluor. Lighting | New | building | 25,336 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.1 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | Early | Lamp | 38 | 19% | 0.00 | 15 | \$35 | 94% | 0.1 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 40W T12 Lamp, Magnetic Ballast | Street Lighting | Lin. Fluor. Lighting | Early | Lamp | 83 | 63% | 0.01 | 15 | \$35 | 94% | 1.0 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | Early | Lamp | 46 | 34% | 0.00 | 15 | \$35 | 94% | 0.3 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | Early | Lamp | 45 | 32% | 0.00 | 15 | \$35 | 94% | 0.3 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | New | Lamp | 29 | 19% | 0.00 | 15 | \$28 | 94% | 0.1 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | New | Lamp | 34 | 32% | 0.00 | 15 | \$29 | 94% | 0.2 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | New | Lamp | 35 | 34% | 0.00 | 15 | \$22 | 94% | 0.4 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | New | Lamp | 34 | 32% | 0.00 | 15 | \$29 | 94% | 0.2 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | ROB | Lamp | 38 | 19% | 0.00 | 15 | \$28 | 94% | 0.2 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | ROB | Lamp | 45 | 32% | 0.00 | 15 | \$29 | 94% | 0.3 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | ROB | Lamp | 46 | 34% | 0.00 | 15 | \$22 | 94% | 0.5 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | ROB | Lamp | 45 | 32% | 0.00 | 15 | \$29 | 94% | 0.3 |
| FE-WPP | Occupancy Sensor | Lighting w/ No Controls | Street Lighting | Lin. Fluor. Lighting | Existing | building | 25,336 | 24% | 0.2 | 8 | \$1,558 | 12% | 1.2 |
| FE-WPP | Occupancy Sensor | Lighting w/ No Controls | Street Lighting | Lin. Fluor. Lighting | New | building | 25,336 | 7.0% | 0.07 | 8 | \$1,558 | 0% | 0.4 |
| FE-WPP | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Street Lighting | Lin. Fluor. Lighting | Existing | building | 25,336 | 28% | 0.3 | 8 | \$5,088 | 11% | 0.4 |
| FE-WPP | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Street Lighting | Lin. Fluor. Lighting | New | building | 25,336 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.1 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 40W T12 w/ Magnetic Ballast | Street Lighting | Lin. Fluor. Lighting | Early | Lamp | 175 | 54% | 0.02 | 12 | \$9.1 | 94% | 5.7 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | Early | Lamp | 112 | 28% | 0.01 | 12 | \$9.1 | 24% | 1.9 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | Early | Lamp | 108 | 26% | 0.01 | 12 | \$9.1 | 94% | 1.7 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | New | Lamp | 82 | 26% | 0.00 | 12 | \$2.5 | 94% | 4.6 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | New | Lamp | 82 | 26% | 0.00 | 12 | \$2.5 | 94% | 4.6 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | New | Lamp | 85 | 28% | 0.00 | 12 | \$2.5 | 24% | 5.2 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | New | Lamp | 82 | 26% | 0.00 | 12 | \$2.5 | 94% | 4.6 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | ROB | Lamp | 108 | 26% | 0.01 | 12 | \$2.5 | 94% | 6.1 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | ROB | Lamp | 108 | 26% | 0.01 | 12 | \$2.5 | 94% | 6.1 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | ROB | Lamp | 112 | 28% | 0.01 | 12 | \$2.5 | 24% | 6.9 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | ROB | Lamp | 108 | 26% | 0.01 | 12 | \$2.5 | 94% | 6.1 |
| FE-WPP | T8 Lamp (any length) Electronic Ballast | Standard T12 lamp (any length) | Street Lighting | Lin. Fluor. Lighting | Early | Lamp | 206 | 42% | 0.02 | 12 | \$14 | 94% | 3.4 |
| FE-WPP | Time Clock Control | Lighting w/ No Controls | Street Lighting | Lin. Fluor. Lighting | Existing | building | 25,336 | 28% | 0.3 | 8 | \$1,034 | 14% | 2.2 |
| FE-WPP | Time Clock Control | Lighting w/ No Controls | Street Lighting | Lin. Fluor. Lighting | New | building | 25,336 | 4.1% | 0.04 | 8 | \$1,034 | 0% | 0.3 |
| FE-WPP | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | Early | motor | 3,361 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| FE-WPP | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | Early | motor | 3,361 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| FE-WPP | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | Early | motor | 3,361 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| FE-WPP | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | Early | motor | 3,361 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|--|-----------------|---------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | ROB | motor | 175,977 | 0.5% | 0.1 | 15 | \$431 | 70% | 1.2 |
| FE-WPP | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | ROB | motor | 175,977 | 0.5% | 0.1 | 15 | \$431 | 70% | 1.2 |
| FE-WPP | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | ROB | motor | 175,977 | 0.5% | 0.1 | 15 | \$431 | 70% | 1.2 |
| FE-WPP | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | ROB | motor | 175,977 | 0.5% | 0.1 | 15 | \$431 | 70% | 1.2 |
| FE-WPP | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | ROB | motor | 175,977 | 0.5% | 0.1 | 15 | \$431 | 70% | 1.2 |
| FE-WPP | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | Early | motor | 23,526 | 2.9% | 0.09 | 15 | \$802 | 83% | 0.5 |
| FE-WPP | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | Early | motor | 23,526 | 2.9% | 0.09 | 15 | \$802 | 83% | 0.5 |
| FE-WPP | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | Early | motor | 23,526 | 2.9% | 0.09 | 15 | \$802 | 83% | 0.5 |
| FE-WPP | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | Early | motor | 23,526 | 2.9% | 0.09 | 15 | \$802 | 83% | 0.5 |
| FE-WPP | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | Early | motor | 23,526 | 2.9% | 0.09 | 15 | \$802 | 83% | 0.5 |
| FE-WPP | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | New | motor | 22,964 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.6 |
| FE-WPP | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | New | motor | 22,964 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.6 |
| FE-WPP | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | New | motor | 22,964 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.6 |
| FE-WPP | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | New | motor | 22,964 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.6 |
| FE-WPP | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | ROB | motor | 22,964 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.6 |
| FE-WPP | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | ROB | motor | 22,964 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.6 |
| FE-WPP | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | ROB | motor | 22,964 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.6 |
| FE-WPP | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | ROB | motor | 22,964 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.6 |
| FE-WPP | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | ROB | motor | 22,964 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.6 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | Early | motor | 221,800 | 1.3% | 0.4 | 15 | \$3,955 | 61% | 0.4 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | Early | motor | 221,800 | 1.3% | 0.4 | 15 | \$3,955 | 61% | 0.4 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | Early | motor | 221,800 | 1.3% | 0.4 | 15 | \$3,955 | 61% | 0.4 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | Early | motor | 221,800 | 1.3% | 0.4 | 15 | \$3,955 | 61% | 0.5 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | Early | motor | 221,800 | 1.3% | 0.4 | 15 | \$3,955 | 61% | 0.4 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | New | motor | 219,972 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.1 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | New | motor | 219,972 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.1 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | New | motor | 219,972 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.1 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | New | motor | 219,972 | 0.4% | 0.1 | 15 | \$554 | 61% | 1.1 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | ROB | motor | 219,972 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.1 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | ROB | motor | 219,972 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.1 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | ROB | motor | 219,972 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.1 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | ROB | motor | 219,972 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.1 |
| FE-WPP | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | ROB | motor | 219,972 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.1 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Street Lighting | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 20.5 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Street Lighting | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 20.9 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Street Lighting | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 21.2 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Street Lighting | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 21.4 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Street Lighting | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 22.0 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Street Lighting | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 20.3 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Street Lighting | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 20.8 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Street Lighting | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 21.3 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Street Lighting | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 21.7 |
| FE-WPP | Downsizing motor during retrofit | Larger hp standard motor | Street Lighting | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 21.9 |
| FE-WPP | Escalator Motor Controller | Constant power control | Street Lighting | Motors | New | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 45% | 5.6 |
| FE-WPP | Escalator Motor Controller | Constant power control | Street Lighting | Motors | ROB | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 45% | 5.6 |
| FE-WPP | Variable Speed Drive Control, 15HP | Existing Motors w/out VSD Drive | Street Lighting | Motors | Early | motor | 45,928 | 70% | 4.7 | 15 | \$731 | 86% | 27.1 |
| FE-WPP | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Street Lighting | Motors | New | motor | 44,940 | 72% | 4.7 | 15 | \$731 | 86% | 27.1 |
| FE-WPP | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Street Lighting | Motors | ROB | motor | 44,940 | 71% | 4.7 | 15 | \$731 | 86% | 27.1 |
| FE-WPP | Variable Speed Drive Control, 40HP | Existing Motors w/out VSD Drive | Street Lighting | Motors | Early | motor | 119,841 | 71% | 12.5 | 15 | \$4,666 | 86% | 11.2 |
| FE-WPP | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Street Lighting | Motors | New | motor | 118,440 | 72% | 12.5 | 15 | \$4,666 | 86% | 11.2 |
| FE-WPP | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Street Lighting | Motors | ROB | motor | 118,440 | 71% | 12.5 | 15 | \$4,666 | 86% | 11.2 |
| FE-WPP | Variable Speed Drive Control, 5HP | Existing Motors w/out VFD Drive | Street Lighting | Motors | Early | motor | 15,922 | 71% | 1.7 | 15 | \$2,243 | 86% | 3.1 |
| FE-WPP | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Street Lighting | Motors | New | motor | 15,566 | 71% | 1.6 | 15 | \$2,243 | 86% | 3.1 |
| FE-WPP | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Street Lighting | Motors | ROB | motor | 15,566 | 72% | 1.6 | 15 | \$2,243 | 86% | 3.1 |
| FE-WPP | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Street Lighting | Motors | Early | motor | 4,943 | 23% | 0.1 | 15 | \$268 | 13% | 2.5 |
| FE-WPP | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Street Lighting | Motors | New | motor | 4,943 | 23% | 0.1 | 15 | \$268 | 13% | 2.5 |
| FE-WPP | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Street Lighting | Motors | ROB | motor | 4,943 | 23% | 0.1 | 15 | \$268 | 13% | 2.5 |
| FE-WPP | VFD on Chilled Water Pump | Motor w/out VFD Drive | Street Lighting | Motors | Early | motor | 16,590 | 55% | 1.2 | 15 | \$2,903 | 86% | 1.8 |
| FE-WPP | VFD on Chilled Water Pump | Motor w/out VFD Drive | Street Lighting | Motors | New | motor | 16,280 | 55% | 1.2 | 15 | \$2,843 | 86% | 1.9 |
| FE-WPP | VFD on Chilled Water Pump | Motor w/out VFD Drive | Street Lighting | Motors | ROB | motor | 16,280 | 55% | 1.2 | 15 | \$2,843 | 86% | 1.9 |
| FE-WPP | VFD on Condenser Water Pump | Motor w/out VFD Drive | Street Lighting | Motors | Early | motor | 18,641 | 32% | 0.8 | 15 | \$2,903 | 86% | 1.2 |
| FE-WPP | VFD on Condenser Water Pump | Motor w/out VFD Drive | Street Lighting | Motors | New | motor | 18,292 | 33% | 0.8 | 15 | \$2,843 | 86% | 1.3 |
| FE-WPP | VFD on Condenser Water Pump | Motor w/out VFD Drive | Street Lighting | Motors | ROB | motor | 18,292 | 33% | 0.8 | 15 | \$2,843 | 86% | 1.3 |
| FE-WPP | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Street Lighting | Motors | Early | motor | 27,718 | 56% | 2.0 | 15 | \$2,903 | 86% | 3.1 |
| FE-WPP | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Street Lighting | Motors | New | motor | 27,199 | 57% | 2.0 | 15 | \$2,843 | 86% | 3.2 |
| FE-WPP | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Street Lighting | Motors | ROB | motor | 27,199 | 57% | 2.0 | 15 | \$2,843 | 86% | 3.2 |
| FE-WPP | VFD on HVAC Fan | Motor w/out VFD | Street Lighting | Motors | Early | motor | 18,724 | 70% | 1.9 | 15 | \$2,903 | 86% | 2.8 |
| FE-WPP | VFD on HVAC Fan | Motor w/out VFD | Street Lighting | Motors | New | motor | 18,373 | 72% | 1.9 | 15 | \$2,843 | 86% | 2.8 |
| FE-WPP | VFD on HVAC Fan | Motor w/out VFD | Street Lighting | Motors | ROB | motor | 18,373 | 71% | 1.9 | 15 | \$2,843 | 86% | 2.8 |
| FE-WPP | Variable Speed Drives on Process Equipment | Constant speed control | Street Lighting | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 10.1 |
| FE-WPP | Variable Speed Drives on Process Equipment | Constant speed control | Street Lighting | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 10.1 |
| FE-WPP | Auto Off Time Switch | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | Existing | building | 4,076 | 24% | 0.2 | 8 | \$1,034 | 13% | 0.4 |
| FE-WPP | Auto Off Time Switch | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | New | building | 4,076 | 7.0% | 0.07 | 8 | \$1,034 | 0% | 0.1 |
| FE-WPP | Central Lighting Control System | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | Existing | building | 4,076 | 38% | 0.4 | 8 | \$1,034 | 13% | 0.6 |
| FE-WPP | Central Lighting Control System | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | New | building | 4,076 | 14% | 0.1 | 8 | \$1,034 | 13% | 0.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|--|-----------------|---------------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Cold Cathode Screw-In Bulb | 40W Incandescent Bulb | Street Lighting | Other Int. Lighting | Early | lamp | 87 | 87% | 0.01 | 15 | \$30 | 14% | 1.6 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | Early | lamp | 62 | 81% | 0.01 | 15 | \$30 | 11% | 1.1 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | New | lamp | 47 | 81% | 0.01 | 15 | \$21 | 14% | 1.2 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | New | lamp | 47 | 81% | 0.01 | 15 | \$23 | 14% | 1.1 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | New | lamp | 47 | 81% | 0.01 | 15 | \$22 | 11% | 1.1 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | ROB | lamp | 62 | 81% | 0.01 | 15 | \$21 | 14% | 1.5 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | ROB | lamp | 62 | 81% | 0.01 | 15 | \$23 | 14% | 1.4 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | ROB | lamp | 62 | 81% | 0.01 | 15 | \$22 | 11% | 1.5 |
| FE-WPP | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Street Lighting | Other Int. Lighting | Early | lamp | 87 | 75% | 0.01 | 7 | \$73 | 24% | 0.3 |
| FE-WPP | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Street Lighting | Other Int. Lighting | New | fixture | 95 | 65% | 0.01 | 13 | \$29 | 28% | 1.2 |
| FE-WPP | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | New | lamp | 47 | 65% | 0.01 | 7 | \$29 | 28% | 0.4 |
| FE-WPP | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Street Lighting | Other Int. Lighting | ROB | fixture | 125 | 65% | 0.01 | 13 | \$29 | 24% | 1.6 |
| FE-WPP | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | ROB | lamp | 62 | 65% | 0.01 | 7 | \$29 | 24% | 0.5 |
| FE-WPP | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Street Lighting | Other Int. Lighting | Early | lamp | 87 | 75% | 0.01 | 7 | \$3.2 | 24% | 7.3 |
| FE-WPP | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | New | lamp | 47 | 65% | 0.01 | 7 | \$1.8 | 24% | 6.2 |
| FE-WPP | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | ROB | lamp | 62 | 65% | 0.01 | 7 | \$1.8 | 24% | 8.1 |
| FE-WPP | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | ROB | lamp | 62 | 65% | 0.01 | 7 | \$1.8 | 24% | 8.1 |
| FE-WPP | Exit Sign Retrofit: CFL replacing Incandescent | One 23W Single Sided Incandescent Exit Sign | Street Lighting | Other Int. Lighting | Early | exit sign | 139 | 42% | 0.01 | 15 | \$48 | 22% | 0.7 |
| FE-WPP | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Street Lighting | Other Int. Lighting | New | building | 4,076 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.0 |
| FE-WPP | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Street Lighting | Other Int. Lighting | New | building | 4,076 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |
| FE-WPP | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Street Lighting | Other Int. Lighting | New | building | 4,076 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| FE-WPP | Indoor Daylight Sensors | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | Existing | building | 4,076 | 28% | 0.3 | 8 | \$5,088 | 13% | 0.1 |
| FE-WPP | Indoor Daylight Sensors | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | New | building | 4,076 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| FE-WPP | LED Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Street Lighting | Other Int. Lighting | Early | sign | 153 | 87% | 0.02 | 15 | \$48 | 16% | 1.7 |
| FE-WPP | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Street Lighting | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 1.8 |
| FE-WPP | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Street Lighting | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 1.8 |
| FE-WPP | LED Task Lighting/Screw-In | 1 15W CFL bulb | Street Lighting | Other Int. Lighting | Early | lamp | 22 | 33% | 0.00 | 15 | \$9.6 | 24% | 0.5 |
| FE-WPP | LED Task Lighting/Screw-In | 1 60W Incandescent Bulb | Street Lighting | Other Int. Lighting | Early | lamp | 89 | 83% | 0.01 | 15 | \$9.6 | 24% | 5.0 |
| FE-WPP | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Street Lighting | Other Int. Lighting | New | lamp | 49 | 77% | 0.01 | 15 | \$7.9 | 24% | 3.0 |
| FE-WPP | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Street Lighting | Other Int. Lighting | New | lamp | 49 | 77% | 0.01 | 15 | \$7.9 | 24% | 3.0 |
| FE-WPP | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Street Lighting | Other Int. Lighting | ROB | lamp | 64 | 77% | 0.01 | 15 | \$7.9 | 24% | 4.0 |
| FE-WPP | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Street Lighting | Other Int. Lighting | ROB | lamp | 64 | 77% | 0.01 | 15 | \$7.9 | 24% | 4.0 |
| FE-WPP | Occupancy Sensor | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | Existing | building | 4,076 | 24% | 0.2 | 8 | \$1,558 | 11% | 0.3 |
| FE-WPP | Occupancy Sensor | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | New | building | 4,076 | 7.0% | 0.07 | 8 | \$1,558 | 0% | 0.1 |
| FE-WPP | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | Existing | building | 4,076 | 28% | 0.3 | 8 | \$5,088 | 11% | 0.1 |
| FE-WPP | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | New | building | 4,076 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| FE-WPP | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Street Lighting | Other Int. Lighting | Early | exit sign | 139 | 100% | 0.02 | 15 | \$173 | 26% | 0.5 |
| FE-WPP | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Street Lighting | Other Int. Lighting | New | exit sign | 80 | 100% | 0.01 | 15 | \$148 | 31% | 0.3 |
| FE-WPP | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Street Lighting | Other Int. Lighting | ROB | exit sign | 80 | 100% | 0.01 | 15 | \$148 | 26% | 0.3 |
| FE-WPP | Time Clock Control | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | Existing | building | 4,076 | 28% | 0.3 | 8 | \$1,034 | 13% | 0.5 |
| FE-WPP | Time Clock Control | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | New | building | 4,076 | 4.1% | 0.04 | 8 | \$1,034 | 0% | 0.1 |
| FE-WPP | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Street Lighting | Plug Load | Existing | building | 2,195 | 46% | 0.5 | 5 | \$189 | 4% | 2.0 |
| FE-WPP | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Street Lighting | Plug Load | New | building | 2,195 | 46% | 0.5 | 5 | \$189 | 4% | 2.0 |
| FE-WPP | Data Center - Server/Storage Consolidation | No Consolidation | Street Lighting | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-WPP | Data Center - Server/Storage Consolidation | No Consolidation | Street Lighting | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-WPP | Data Center - Server/Storage Virtualization | No Virtualization | Street Lighting | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-WPP | Data Center - Server/Storage Virtualization | No Virtualization | Street Lighting | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-WPP | Energy Star - Scanners | Std Scanner | Street Lighting | Plug Load | New | measure | 68 | 3.8% | 0.04 | 4 | \$130 | 7% | 0.1 |
| FE-WPP | Energy Star - Scanners | Std Scanner | Street Lighting | Plug Load | ROB | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| FE-WPP | Energy Star Dishwasher | Existing Dishwasher units | Street Lighting | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,580 | 0% | 1.0 |
| FE-WPP | Energy Star Dishwasher | Standard Dishwasher unit | Street Lighting | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 0% | 3.1 |
| FE-WPP | Energy Star Dishwasher | Standard Dishwasher unit | Street Lighting | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 0% | 3.1 |
| FE-WPP | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Street Lighting | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 17% | 0.2 |
| FE-WPP | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Street Lighting | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 1.9 |
| FE-WPP | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Street Lighting | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 1.9 |
| FE-WPP | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Street Lighting | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 9% | 0.8 |
| FE-WPP | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Street Lighting | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.6 |
| FE-WPP | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Street Lighting | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.6 |
| FE-WPP | ENERGY STAR® Copiers | 10% Less Efficient Copier | Street Lighting | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 80% | 0.0 |
| FE-WPP | ENERGY STAR® Copiers | One Conventional Copier | Street Lighting | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 80% | 0.0 |
| FE-WPP | ENERGY STAR® Copiers | One Conventional Copier | Street Lighting | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 80% | 0.0 |
| FE-WPP | ENERGY STAR® desktop | Standard computer | Street Lighting | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 87% | 0.1 |
| FE-WPP | ENERGY STAR® desktop | Standard computer | Street Lighting | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 87% | 2.3 |
| FE-WPP | ENERGY STAR® desktop | Standard computer | Street Lighting | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 87% | 2.3 |
| FE-WPP | ENERGY STAR® Fax | 10% Less Efficient Fax | Street Lighting | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 89% | 0.0 |
| FE-WPP | ENERGY STAR® Fax | One Conventional Fax | Street Lighting | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 89% | 0.2 |
| FE-WPP | ENERGY STAR® Fax | One Conventional Fax | Street Lighting | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 89% | 0.2 |
| FE-WPP | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Street Lighting | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 89% | 0.0 |
| FE-WPP | ENERGY STAR® Monitors | One Conventional Monitor | Street Lighting | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 89% | 0.0 |
| FE-WPP | ENERGY STAR® Monitors | One Conventional Monitor | Street Lighting | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 89% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|---|-----------------|---------------|----------|-------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | ENERGY STAR® Printers | 10% Less Efficient Printer | Street Lighting | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 89% | 0.0 |
| FE-WPP | ENERGY STAR® Printers | One Conventional Printer | Street Lighting | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 89% | 0.3 |
| FE-WPP | ENERGY STAR® Printers | One Conventional Printer | Street Lighting | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$130 | 89% | 0.3 |
| FE-WPP | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Street Lighting | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 87% | 0.1 |
| FE-WPP | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Street Lighting | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 87% | 0.7 |
| FE-WPP | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Street Lighting | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 87% | 0.7 |
| FE-WPP | ENERGY STAR® Televisions | 10% Less Efficient Television | Street Lighting | Plug Load | Early | Unit | 111 | 38% | 0.01 | 6 | \$672 | 85% | 0.0 |
| FE-WPP | ENERGY STAR® Televisions | One Conventional Television | Street Lighting | Plug Load | New | Unit | 101 | 32% | 0.01 | 6 | \$206 | 85% | 0.0 |
| FE-WPP | ENERGY STAR® Televisions | One Conventional Television | Street Lighting | Plug Load | ROB | Unit | 101 | 32% | 0.01 | 6 | \$206 | 85% | 0.0 |
| FE-WPP | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Street Lighting | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 81% | 0.3 |
| FE-WPP | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Street Lighting | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 81% | 0.6 |
| FE-WPP | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Street Lighting | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 81% | 0.6 |
| FE-WPP | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Street Lighting | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.2 |
| FE-WPP | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Street Lighting | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.2 |
| FE-WPP | Network PC Power Management | No PC Power Management | Street Lighting | Plug Load | Existing | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 17.1 |
| FE-WPP | Network PC Power Management | No PC Power Management | Street Lighting | Plug Load | New | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 17.2 |
| FE-WPP | Smart Strip Plug Outlets | Standard plug strip/outlet | Street Lighting | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.3 |
| FE-WPP | Smart Strip Plug Outlets | Standard plug strip/outlet | Street Lighting | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.3 |
| FE-WPP | Smart Strip Plug Outlets | Standard plug strip/outlet | Street Lighting | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-WPP | Smart Strip Plug Outlets | Standard plug strip/outlet | Street Lighting | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-WPP | Smart Strip Plug Outlets | Standard plug strip/outlet | Street Lighting | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-WPP | Smart Strip Plug Outlets | Standard plug strip/outlet | Street Lighting | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-WPP | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Street Lighting | Plug Load | Existing | building | 2,195 | 46% | 0.5 | 5 | \$180 | 3% | 2.1 |
| FE-WPP | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Street Lighting | Plug Load | New | building | 2,195 | 46% | 0.5 | 5 | \$180 | 3% | 2.1 |
| FE-WPP | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Street Lighting | Refrigeration | Existing | building | 227 | 2.1% | 0.02 | 12 | \$70 | 11% | 0.2 |
| FE-WPP | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Street Lighting | Refrigeration | New | building | 227 | 2.1% | 0.02 | 12 | \$70 | 11% | 0.2 |
| FE-WPP | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Street Lighting | Refrigeration | Existing | building | 227 | 7.0% | 0.07 | 12 | \$70 | 11% | 0.8 |
| FE-WPP | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Street Lighting | Refrigeration | New | building | 227 | 7.0% | 0.07 | 12 | \$70 | 11% | 0.8 |
| FE-WPP | Auto Closer on Refrigerator Door | Door w/out Autocloser | Street Lighting | Refrigeration | Existing | building | 1,193 | 48% | 0.5 | 8 | \$747 | 40% | 0.6 |
| FE-WPP | Auto Closer on Refrigerator Door | Door w/out Autocloser | Street Lighting | Refrigeration | Existing | building | 4,090 | 17% | 0.2 | 8 | \$476 | 40% | 0.6 |
| FE-WPP | Auto Closer on Refrigerator Door | Door w/out Autocloser | Street Lighting | Refrigeration | New | building | 1,193 | 48% | 0.5 | 8 | \$747 | 40% | 0.6 |
| FE-WPP | Auto Closer on Refrigerator Door | Door w/out Autocloser | Street Lighting | Refrigeration | New | building | 4,090 | 17% | 0.2 | 8 | \$476 | 40% | 0.6 |
| FE-WPP | Demand Hot Gas Defrost | Base Refrigeration System | Street Lighting | Refrigeration | Existing | measure | 227 | 3.0% | 0.03 | 10 | \$1,412 | 0% | 0.0 |
| FE-WPP | Demand Hot Gas Defrost | Base Refrigeration System | Street Lighting | Refrigeration | New | measure | 227 | 3.0% | 0.03 | 10 | \$1,412 | 0% | 0.0 |
| FE-WPP | Door Gasket- Freezer | Door w/out Gasket | Street Lighting | Refrigeration | Existing | building | 1,193 | 26% | 0.3 | 4 | \$77 | 29% | 1.7 |
| FE-WPP | Door Gasket- Freezer | Door w/out Gasket | Street Lighting | Refrigeration | New | building | 1,193 | 26% | 0.3 | 4 | \$77 | 29% | 1.7 |
| FE-WPP | Door Gasket- Refrigerator | Door w/out Gasket | Street Lighting | Refrigeration | Existing | building | 4,090 | 5.4% | 0.05 | 4 | \$66 | 45% | 0.8 |
| FE-WPP | Door Gasket- Refrigerator | Door w/out Gasket | Street Lighting | Refrigeration | New | building | 4,090 | 5.4% | 0.05 | 4 | \$66 | 45% | 0.8 |
| FE-WPP | eCube | Refrigeration unit w/out eCube | Street Lighting | Refrigeration | Existing | building | 4,090 | 15% | 0.2 | 15 | \$504 | 57% | 0.8 |
| FE-WPP | eCube | Refrigeration unit w/out eCube | Street Lighting | Refrigeration | New | building | 4,090 | 15% | 0.2 | 15 | \$504 | 57% | 0.8 |
| FE-WPP | Efficient compressor motor | Base Refrigeration System - Grocery | Street Lighting | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| FE-WPP | Efficient compressor motor | Base Refrigeration System - Grocery | Street Lighting | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| FE-WPP | Efficient compressor motor | Base Refrigeration System - Grocery | Street Lighting | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| FE-WPP | Efficient compressor motor | Base Refrigeration System - Grocery | Street Lighting | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| FE-WPP | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Street Lighting | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.5 |
| FE-WPP | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Street Lighting | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| FE-WPP | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Street Lighting | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| FE-WPP | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Street Lighting | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.3 |
| FE-WPP | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Street Lighting | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.7 |
| FE-WPP | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Street Lighting | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.7 |
| FE-WPP | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Street Lighting | Refrigeration | Existing | building | 4,090 | 3.1% | 0.03 | 10 | \$369 | 77% | 0.2 |
| FE-WPP | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Street Lighting | Refrigeration | New | building | 4,090 | 3.1% | 0.03 | 10 | \$369 | 77% | 0.2 |
| FE-WPP | Floating head pressure controller | System w/out FHPC | Street Lighting | Refrigeration | Existing | building | 1,193 | 19% | 0.05 | 15 | \$8,682 | 41% | 0.0 |
| FE-WPP | Floating head pressure controller | System w/out FHPC | Street Lighting | Refrigeration | Existing | building | 227 | 44% | 0.02 | 15 | \$8,682 | 41% | 0.0 |
| FE-WPP | Floating head pressure controller | System w/out FHPC | Street Lighting | Refrigeration | Existing | building | 4,090 | 2.0% | 0.02 | 15 | \$8,682 | 41% | 0.0 |
| FE-WPP | Floating head pressure controller | System w/out FHPC | Street Lighting | Refrigeration | New | building | 1,193 | 19% | 0.05 | 15 | \$8,682 | 41% | 0.0 |
| FE-WPP | Floating head pressure controller | System w/out FHPC | Street Lighting | Refrigeration | New | building | 227 | 44% | 0.02 | 15 | \$8,682 | 41% | 0.0 |
| FE-WPP | Floating head pressure controller | System w/out FHPC | Street Lighting | Refrigeration | New | building | 4,090 | 2.0% | 0.02 | 15 | \$8,682 | 41% | 0.0 |
| FE-WPP | High Efficiency Commercial Freezer | Std. Commercial Freezer | Street Lighting | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 86% | 0.3 |
| FE-WPP | High Efficiency Commercial Freezer | Std. Commercial Freezer | Street Lighting | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 3.6 |
| FE-WPP | High Efficiency Commercial Freezer | Std. Commercial Freezer | Street Lighting | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 3.6 |
| FE-WPP | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Street Lighting | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 2% | 0.1 |
| FE-WPP | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Street Lighting | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.8 |
| FE-WPP | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Street Lighting | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.8 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|--|-----------------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | High Efficiency Ice Maker | Existing Standard Efficiency Ice Maker in Pennsylvania | Street Lighting | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 73% | 0.1 |
| FE-WPP | High Efficiency Ice Maker | Standard code minimum Ice Maker | Street Lighting | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| FE-WPP | High Efficiency Ice Maker | Standard code minimum Ice Maker | Street Lighting | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| FE-WPP | High Efficiency Ice Making Head | Standard Ice Making Head | Street Lighting | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.6 |
| FE-WPP | High Efficiency Ice Making Head | Standard Ice Making Head | Street Lighting | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.5 |
| FE-WPP | High R-Value Glass Doors | Base Refrigeration System - Grocery | Street Lighting | Refrigeration | Existing | building | 227 | 0.7% | 0.01 | 10 | \$8.8 | 0% | 0.6 |
| FE-WPP | High R-Value Glass Doors | Base Refrigeration System - Grocery | Street Lighting | Refrigeration | New | building | 227 | 0.7% | 0.01 | 10 | \$8.8 | 0% | 0.6 |
| FE-WPP | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Street Lighting | Refrigeration | Early | Fixture | 373 | 56% | 0.01 | 8 | \$448 | 47% | 0.1 |
| FE-WPP | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Street Lighting | Refrigeration | New | Fixture | 291 | 44% | 0.00 | 8 | \$139 | 47% | 0.3 |
| FE-WPP | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Street Lighting | Refrigeration | ROB | Fixture | 291 | 44% | 0.00 | 8 | \$139 | 47% | 0.3 |
| FE-WPP | No-heat glass doors | Standard low-temp reach-in | Street Lighting | Refrigeration | Existing | building | 227 | 20% | 0.2 | 10 | \$809 | 8% | 0.2 |
| FE-WPP | No-heat glass doors | Standard low-temp reach-in | Street Lighting | Refrigeration | New | building | 227 | 20% | 0.2 | 10 | \$809 | 8% | 0.2 |
| FE-WPP | Quick acting freezer doors | Std. Freezer Doors | Street Lighting | Refrigeration | Existing | building | 1,193 | 13% | 0.1 | 10 | \$448 | 56% | 0.3 |
| FE-WPP | Quick acting freezer doors | Std. Freezer Doors | Street Lighting | Refrigeration | New | building | 1,193 | 13% | 0.1 | 10 | \$448 | 56% | 0.3 |
| FE-WPP | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Street Lighting | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 30% | 0.4 |
| FE-WPP | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Street Lighting | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.4 |
| FE-WPP | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Street Lighting | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.5 |
| FE-WPP | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 30% | 1.5 |
| FE-WPP | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 2.6 |
| FE-WPP | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 2.6 |
| FE-WPP | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 30% | 1.5 |
| FE-WPP | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 3.5 |
| FE-WPP | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 3.5 |
| FE-WPP | Refrigeration Commissioning | Non-commissioned refrigeration system | Street Lighting | Refrigeration | Existing | building | 5,681 | 9.5% | 0.10 | 3 | \$1,204 | 85% | 0.1 |
| FE-WPP | Refrigeration Commissioning | Non-commissioned refrigeration system | Street Lighting | Refrigeration | New | building | 5,681 | 9.5% | 0.10 | 3 | \$1,204 | 85% | 0.1 |
| FE-WPP | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Street Lighting | Refrigeration | Existing | building | 1,193 | 62% | 0.6 | 4 | \$93 | 22% | 3.3 |
| FE-WPP | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Street Lighting | Refrigeration | Existing | building | 4,090 | 7.6% | 0.08 | 4 | \$80 | 22% | 0.9 |
| FE-WPP | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Street Lighting | Refrigeration | New | building | 1,193 | 62% | 0.6 | 4 | \$93 | 22% | 3.3 |
| FE-WPP | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Street Lighting | Refrigeration | New | building | 4,090 | 7.6% | 0.08 | 4 | \$80 | 22% | 0.9 |
| FE-WPP | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Street Lighting | Refrigeration | Existing | building | 1,193 | 11% | 0.1 | 11 | \$119 | 79% | 1.0 |
| FE-WPP | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Street Lighting | Refrigeration | New | building | 1,193 | 11% | 0.1 | 11 | \$119 | 79% | 1.0 |
| FE-WPP | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Street Lighting | Refrigeration | Existing | building | 4,090 | 8.1% | 0.08 | 11 | \$119 | 79% | 1.5 |
| FE-WPP | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Street Lighting | Refrigeration | New | building | 4,090 | 8.1% | 0.08 | 11 | \$119 | 79% | 1.5 |
| FE-WPP | Vertical Night Covers | Display cases w/out night covers-High Temperature | Street Lighting | Refrigeration | Existing | building | 227 | 1.1% | 0.01 | 5 | \$52 | 9% | 0.1 |
| FE-WPP | Vertical Night Covers | Display cases w/out night covers-High Temperature | Street Lighting | Refrigeration | New | building | 227 | 1.1% | 0.01 | 5 | \$52 | 9% | 0.1 |
| FE-WPP | VSD Controlled Compressor | Compressor w/out VSD | Street Lighting | Refrigeration | Early | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |
| FE-WPP | VSD Controlled Compressor | Compressor w/out VSD | Street Lighting | Refrigeration | New | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |
| FE-WPP | VSD Controlled Compressor | Compressor w/out VSD | Street Lighting | Refrigeration | ROB | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |
| FE-WPP | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Street Lighting | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$269 | 35% | 0.8 |
| FE-WPP | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Street Lighting | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$269 | 35% | 0.8 |
| FE-WPP | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Street Lighting | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 2.8 |
| FE-WPP | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Street Lighting | Refrigeration | New | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 2.7 |
| FE-WPP | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Street Lighting | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 2.8 |
| FE-WPP | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Street Lighting | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 2.7 |
| FE-WPP | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 35% | 2.1 |
| FE-WPP | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 35% | 2.0 |
| FE-WPP | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 4.6 |
| FE-WPP | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.3 |
| FE-WPP | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 4.6 |
| FE-WPP | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.3 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Street Lighting | Space Heating | Existing | building | 8,073 | 7.1% | 0.07 | 6 | \$12,393 | 82% | 0.0 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Street Lighting | Space Heating | New | building | 8,073 | 7.1% | 0.07 | 6 | \$12,393 | 82% | 0.0 |
| FE-WPP | Adding window shade film | No shade film | Street Lighting | Space Heating | Existing | building | 8,073 | 1.3% | 0.4 | 10 | \$98 | 13% | 2.8 |
| FE-WPP | Adding window shade film | No shade film | Street Lighting | Space Heating | New | building | 8,073 | 1.3% | 0.4 | 10 | \$98 | 13% | 2.8 |
| FE-WPP | Adding window shade screen | No shade screen | Street Lighting | Space Heating | Existing | building | 8,073 | 1.1% | 0.01 | 10 | \$38 | 13% | 0.9 |
| FE-WPP | Adding window shade screen | No shade screen | Street Lighting | Space Heating | New | building | 8,073 | 1.1% | 0.01 | 10 | \$38 | 13% | 0.9 |
| FE-WPP | Automated control system | Manual Controls | Street Lighting | Space Heating | Existing | building | 8,073 | 17% | 0.2 | 15 | \$8,838 | 51% | 0.1 |
| FE-WPP | Automated control system | Manual Controls | Street Lighting | Space Heating | New | building | 8,073 | 17% | 0.2 | 15 | \$8,838 | 94% | 0.1 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Street Lighting | Space Heating | Existing | building | 8,073 | 6.2% | 0.06 | 15 | \$17,130 | 71% | 0.0 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Street Lighting | Space Heating | New | building | 8,073 | 2.1% | 0.02 | 15 | \$16,283 | 94% | 0.0 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Street Lighting | Space Heating | Existing | building | 8,073 | 1.4% | 0.04 | 15 | \$64 | 20% | 1.3 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Street Lighting | Space Heating | New | building | 8,073 | 1.4% | 0.04 | 15 | \$64 | 10% | 1.3 |
| FE-WPP | Efficient Unit Heating System | Existing Unit Heaters in PA | Street Lighting | Space Heating | Early | heater | 30,613 | 23% | 0.05 | 15 | \$3,289 | 83% | 1.0 |
| FE-WPP | Efficient Unit Heating System | Std. Unit Heater | Street Lighting | Space Heating | New | heater | 27,169 | 13% | 0.03 | 15 | \$1,991 | 83% | 0.8 |
| FE-WPP | Efficient Unit Heating System | Std. Unit Heater | Street Lighting | Space Heating | ROB | heater | 27,169 | 13% | 0.03 | 15 | \$1,991 | 83% | 0.8 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Street Lighting | Space Heating | Existing | building | 8,073 | 7.1% | 0.07 | 15 | \$35,809 | 25% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|--|--|-----------------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Street Lighting | Space Heating | New | building | 8,073 | 7.1% | 0.07 | 15 | \$35,809 | 35% | 0.0 |
| FE-WPP | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Street Lighting | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 0.9 |
| FE-WPP | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Street Lighting | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 0.9 |
| FE-WPP | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Street Lighting | Space Heating | Existing | building | 8,073 | 2.2% | 0.02 | 10 | \$7,735 | 81% | 0.0 |
| FE-WPP | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Street Lighting | Space Heating | New | building | 8,073 | 2.2% | 0.02 | 10 | \$7,735 | 81% | 0.0 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Street Lighting | Space Heating | Existing | building | 8,073 | 3.6% | 0.04 | 11 | \$286 | 49% | 0.4 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Street Lighting | Space Heating | New | building | 8,073 | 3.1% | 0.03 | 11 | \$146 | 49% | 0.8 |
| FE-WPP | Re-Commissioning (Existing Construction) | No Re-Commissioning | Street Lighting | Space Heating | Existing | building | 8,073 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |
| FE-WPP | VFD on Cooling Tower Fan | Motor w/out VFD | Street Lighting | Space Heating | Early | motor | 18,724 | 70% | 0.10 | 15 | \$2,843 | 88% | 2.2 |
| FE-WPP | VFD on Cooling Tower Fan | Motor w/out VFD | Street Lighting | Space Heating | New | motor | 18,373 | 72% | 0.10 | 15 | \$2,843 | 88% | 2.2 |
| FE-WPP | VFD on Cooling Tower Fan | Motor w/out VFD | Street Lighting | Space Heating | ROB | motor | 18,373 | 72% | 0.10 | 15 | \$2,843 | 88% | 2.2 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Street Lighting | Space Heating | Existing | building | 8,073 | 11% | 0.1 | 15 | \$3,285 | 26% | 0.2 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Street Lighting | Space Heating | New | building | 8,073 | 0.3% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| FE-WPP | Green LED Traffic Light | Green Incandescent Traffic Light | Street Lighting | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 67% | 1.1 |
| FE-WPP | Green LED Traffic Light | Green Incandescent Traffic Light | Street Lighting | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 67% | 0.1 |
| FE-WPP | Green LED Traffic Light | Green Incandescent Traffic Light | Street Lighting | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 67% | 0.1 |
| FE-WPP | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Street Lighting | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 4% | 2.8 |
| FE-WPP | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Street Lighting | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 4% | 0.4 |
| FE-WPP | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Street Lighting | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 4% | 0.4 |
| FE-WPP | Induction Street Lighting | One 100W HPS Street Light Fixture | Street Lighting | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 87% | 0.3 |
| FE-WPP | Induction Street Lighting | One 100W HPS Street Light Fixture | Street Lighting | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 87% | 1.6 |
| FE-WPP | Induction Street Lighting | One 100W HPS Street Light Fixture | Street Lighting | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 87% | 1.6 |
| FE-WPP | LED Street Lighting | One 100W HPS Street Light | Street Lighting | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 88% | 0.2 |
| FE-WPP | LED Street Lighting | One 100W HPS Street Light | Street Lighting | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 88% | 0.3 |
| FE-WPP | LED Street Lighting | One 100W HPS Street Light | Street Lighting | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 88% | 0.3 |
| FE-WPP | Red LED Traffic Light | One Red Incandescent Traffic Light | Street Lighting | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 67% | 1.5 |
| FE-WPP | Red LED Traffic Light | One Red Incandescent Traffic Light | Street Lighting | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 67% | 0.3 |
| FE-WPP | Red LED Traffic Light | One Red Incandescent Traffic Light | Street Lighting | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 67% | 0.3 |
| FE-WPP | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Street Lighting | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 67% | 0.1 |
| FE-WPP | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Street Lighting | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 67% | 0.0 |
| FE-WPP | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Street Lighting | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 67% | 0.0 |
| FE-WPP | Demand controlled Circulating Systems | Constant circulation system | Street Lighting | Water Heating | Existing | building | 2,143 | 20% | 0.2 | 15 | \$389 | 59% | 1.0 |
| FE-WPP | Demand controlled Circulating Systems | Constant circulation system | Street Lighting | Water Heating | New | building | 2,143 | 20% | 0.2 | 15 | \$389 | 59% | 1.0 |
| FE-WPP | Drainwater Heat Recovery Water Heater | No heat recovery | Street Lighting | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.7 |
| FE-WPP | Drainwater Heat Recovery Water Heater | No heat recovery | Street Lighting | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.7 |
| FE-WPP | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Street Lighting | Water Heating | Existing | building | 2,143 | 5.9% | 0.06 | 12 | \$14 | 85% | 6.8 |
| FE-WPP | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Street Lighting | Water Heating | New | building | 2,143 | 5.9% | 0.06 | 12 | \$4.0 | 85% | 23.7 |
| FE-WPP | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Street Lighting | Water Heating | Early | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 2.8 |
| FE-WPP | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Street Lighting | Water Heating | Early | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 2.8 |
| FE-WPP | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Street Lighting | Water Heating | New | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 2.8 |
| FE-WPP | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Street Lighting | Water Heating | New | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 2.8 |
| FE-WPP | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Street Lighting | Water Heating | ROB | water heater | 10,350 | 65% | 1.2 | 10 | \$1,187 | 68% | 2.6 |
| FE-WPP | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Street Lighting | Water Heating | ROB | water heater | 10,350 | 65% | 1.2 | 10 | \$1,187 | 68% | 2.6 |
| FE-WPP | Heat Recovery Unit | Base Water Heating | Street Lighting | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.5 |
| FE-WPP | Heat Recovery Unit | Base Water Heating | Street Lighting | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.5 |
| FE-WPP | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Street Lighting | Water Heating | Early | water heater | 10,645 | 5.9% | 0.1 | 15 | \$307 | 79% | 1.3 |
| FE-WPP | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Street Lighting | Water Heating | Early | water heater | 10,645 | 5.9% | 0.1 | 15 | \$307 | 79% | 1.3 |
| FE-WPP | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Street Lighting | Water Heating | New | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.7 |
| FE-WPP | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Street Lighting | Water Heating | New | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.7 |
| FE-WPP | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Street Lighting | Water Heating | ROB | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.7 |
| FE-WPP | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Street Lighting | Water Heating | ROB | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.7 |
| FE-WPP | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Street Lighting | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$466 | 81% | 36.2 |
| FE-WPP | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Street Lighting | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 18.9 |
| FE-WPP | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Street Lighting | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 18.9 |
| FE-WPP | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Street Lighting | Water Heating | Existing | building | 2,143 | 1.7% | 0.02 | 13 | \$5.4 | 68% | 5.4 |
| FE-WPP | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Street Lighting | Water Heating | New | building | 2,143 | 1.7% | 0.02 | 13 | \$5.4 | 0% | 5.4 |
| FE-WPP | Hot Water Circulation Pump Time-Clock | Constant circulation system | Street Lighting | Water Heating | Existing | building | 2,143 | 5.3% | 0.05 | 10 | \$8.7 | 72% | 8.6 |
| FE-WPP | Hot Water Circulation Pump Time-Clock | Constant circulation system | Street Lighting | Water Heating | New | building | 2,143 | 5.3% | 0.05 | 10 | \$8.7 | 72% | 8.6 |
| FE-WPP | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Street Lighting | Water Heating | Existing | building | 2,143 | 0.9% | 0.01 | 7 | \$22 | 78% | 0.4 |
| FE-WPP | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Street Lighting | Water Heating | New | building | 2,143 | 0.8% | 0.01 | 7 | \$0.5 | 78% | 17.2 |
| FE-WPP | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Street Lighting | Water Heating | Existing | building | 2,143 | 9.0% | 0.09 | 5 | \$300 | 0% | 0.2 |
| FE-WPP | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Street Lighting | Water Heating | New | building | 2,143 | 6.0% | 0.06 | 5 | \$194 | 0% | 0.2 |
| FE-WPP | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Street Lighting | Water Heating | Existing | building | 2,143 | 6.5% | 0.07 | 9 | \$25 | 2% | 3.4 |
| FE-WPP | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Street Lighting | Water Heating | New | building | 2,143 | 6.5% | 0.07 | 9 | \$6.0 | 2% | 14.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|--|---|-----------------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Street Lighting | Water Heating | Early | water heater | 10,645 | 52% | 0.4 | 15 | \$6,222 | 32% | 0.5 |
| FE-WPP | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Street Lighting | Water Heating | New | water heater | 10,350 | 51% | 0.4 | 15 | \$6,222 | 32% | 0.5 |
| FE-WPP | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Street Lighting | Water Heating | ROB | water heater | 10,350 | 51% | 0.4 | 15 | \$6,222 | 32% | 0.5 |
| FE-WPP | Ultrasonic Faucet Control | Manual Faucet Control | Street Lighting | Water Heating | Existing | building | 2,143 | 3.0% | 0.03 | 10 | \$371 | 77% | 0.1 |
| FE-WPP | Ultrasonic Faucet Control | Manual Faucet Control | Street Lighting | Water Heating | New | building | 2,143 | 3.0% | 0.03 | 10 | \$371 | 77% | 0.1 |
| FE-WPP | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Street Lighting | Water Heating | Existing | building | 2,143 | 2.2% | 0.02 | 4 | \$28 | 83% | 0.5 |
| FE-WPP | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Street Lighting | Water Heating | New | building | 2,143 | 2.3% | 0.02 | 4 | \$28 | 83% | 0.6 |
| FE-WPP | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Warehouse | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.0 |
| FE-WPP | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Warehouse | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.0 |
| FE-WPP | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Warehouse | Cooking | Early | steamer | 16 | 68% | 0.00 | 12 | \$5,053 | 81% | 0.0 |
| FE-WPP | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Warehouse | Cooking | New | steamer | 7 | 29% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-WPP | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Warehouse | Cooking | ROB | steamer | 7 | 29% | 0.00 | 12 | \$601 | 81% | 0.0 |
| FE-WPP | Electric combination oven (Energy Star) | Standard Oven | Warehouse | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.8 |
| FE-WPP | Electric combination oven (Energy Star) | Standard Oven | Warehouse | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.8 |
| FE-WPP | Electric Convection Oven | Conventional convection oven w/ 65% efficiency | Warehouse | Cooking | Early | oven | 8,641 | 37% | 0.6 | 12 | \$4,119 | 81% | 0.4 |
| FE-WPP | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Warehouse | Cooking | New | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.7 |
| FE-WPP | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Warehouse | Cooking | ROB | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.7 |
| FE-WPP | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Warehouse | Cooking | Early | fryer | 6,105 | 23% | 0.3 | 12 | \$9,241 | 86% | 0.1 |
| FE-WPP | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Warehouse | Cooking | New | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| FE-WPP | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Warehouse | Cooking | ROB | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| FE-WPP | High Efficiency Griddle (ENERGY STAR) | Efficiency code minimum griddle (70% eff) | Warehouse | Cooking | Early | griddle | 11,317 | 65% | 1.4 | 12 | \$4,977 | 86% | 0.8 |
| FE-WPP | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Warehouse | Cooking | New | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.1 |
| FE-WPP | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Warehouse | Cooking | ROB | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.1 |
| FE-WPP | High Efficiency Induction Cooking | Standard Cooking | Warehouse | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-WPP | High Efficiency Induction Cooking | Standard Cooking | Warehouse | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Warehouse | Cooling Central | Existing | building | 2,286 | 7.0% | 0.07 | 6 | \$20,110 | 82% | 0.0 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Warehouse | Cooling Central | New | building | 2,286 | 7.0% | 0.07 | 6 | \$20,110 | 82% | 0.0 |
| FE-WPP | Adding window shade film | No shade film | Warehouse | Cooling Central | Existing | building | 2,286 | 1.3% | 0.4 | 10 | \$28 | 13% | 9.1 |
| FE-WPP | Adding window shade film | No shade film | Warehouse | Cooling Central | New | building | 2,286 | 1.3% | 0.4 | 10 | \$28 | 13% | 9.1 |
| FE-WPP | Adding window shade screen | No shade screen | Warehouse | Cooling Central | Existing | building | 2,286 | 1.1% | 0.01 | 10 | \$11 | 13% | 1.4 |
| FE-WPP | Adding window shade screen | No shade screen | Warehouse | Cooling Central | New | building | 2,286 | 1.0% | 0.01 | 10 | \$11 | 13% | 1.4 |
| FE-WPP | Automated control system | Manual Controls | Warehouse | Cooling Central | Existing | building | 2,286 | 17% | 0.2 | 15 | \$2,502 | 51% | 0.1 |
| FE-WPP | Automated control system | Manual Controls | Warehouse | Cooling Central | New | building | 2,286 | 17% | 0.2 | 15 | \$2,502 | 94% | 0.1 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Warehouse | Cooling Central | Existing | building | 2,286 | 5.9% | 0.06 | 15 | \$27,901 | 71% | 0.0 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Warehouse | Cooling Central | New | building | 2,286 | 3.7% | 0.04 | 15 | \$26,520 | 94% | 0.0 |
| FE-WPP | Chiller Tuneup/Diagnostics | No tuneup | Warehouse | Cooling Central | Existing | building | 2,286 | 8.0% | 0.08 | 10 | \$5,837 | 59% | 0.0 |
| FE-WPP | Chiller Tuneup/Diagnostics | No tuneup | Warehouse | Cooling Central | New | building | 2,286 | 8.0% | 0.08 | 10 | \$5,837 | 59% | 0.0 |
| FE-WPP | Cooling Tower Optimization | No Cooling Tower Optimization | Warehouse | Cooling Central | Existing | building | 2,286 | 20% | 0.2 | 10 | \$14 | 69% | 20.4 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Warehouse | Cooling Central | Existing | building | 2,286 | 1.4% | 0.04 | 15 | \$18 | 20% | 2.7 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Warehouse | Cooling Central | New | building | 2,286 | 1.4% | 0.04 | 15 | \$18 | 10% | 2.7 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Warehouse | Cooling Central | Existing | building | 2,286 | 7.0% | 0.07 | 15 | \$10,140 | 25% | 0.0 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Warehouse | Cooling Central | New | building | 2,286 | 7.0% | 0.07 | 15 | \$10,140 | 35% | 0.0 |
| FE-WPP | Hi Eff HVAC System Design | No HVAC Design | Warehouse | Cooling Central | New | building | 2,286 | 12% | 0.1 | 10 | \$126,024 | 51% | 0.0 |
| FE-WPP | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | Early | ton | 5,094 | 24% | 0.4 | 15 | \$108,550 | 89% | 0.0 |
| FE-WPP | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | New | ton | 4,164 | 6.7% | 0.10 | 15 | \$12,927 | 89% | 0.0 |
| FE-WPP | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | ROB | ton | 4,164 | 6.7% | 0.10 | 15 | \$12,927 | 89% | 0.0 |
| FE-WPP | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | Early | ton | 7,611 | 23% | 0.6 | 15 | \$140,105 | 89% | 0.0 |
| FE-WPP | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | New | ton | 6,124 | 4.8% | 0.1 | 15 | \$9,336 | 89% | 0.0 |
| FE-WPP | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | ROB | ton | 6,124 | 4.9% | 0.1 | 15 | \$9,336 | 89% | 0.0 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | Early | ton | 62,308 | 26% | 5.6 | 15 | \$105,354 | 89% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | New | ton | 54,288 | 15% | 2.8 | 15 | \$30,530 | 89% | 0.2 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | ROB | ton | 54,288 | 15% | 2.8 | 15 | \$30,530 | 89% | 0.2 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | Early | ton | 93,320 | 23% | 7.4 | 15 | \$154,107 | 89% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | New | ton | 85,726 | 16% | 4.8 | 15 | \$27,646 | 89% | 0.4 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | ROB | ton | 93,320 | 23% | 7.4 | 15 | \$27,646 | 89% | 0.6 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | Early | ton | 154,988 | 23% | 12.2 | 15 | \$302,924 | 89% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | New | ton | 140,275 | 14% | 7.0 | 15 | \$115,432 | 89% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|--|--|-----------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | ROB | ton | 154,988 | 23% | 12.2 | 15 | \$115,432 | 89% | 0.2 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | Early | ton | 185,985 | 23% | 14.6 | 15 | \$350,154 | 89% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | New | ton | 168,330 | 14% | 8.5 | 15 | \$120,406 | 89% | 0.2 |
| FE-WPP | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | ROB | ton | 185,985 | 23% | 14.6 | 15 | \$120,406 | 89% | 0.3 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | Early | ton | 41,225 | 29% | 4.2 | 15 | \$83,632 | 89% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | New | ton | 32,011 | 8.9% | 1.0 | 15 | \$40,211 | 89% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | ROB | ton | 41,225 | 29% | 4.2 | 15 | \$40,211 | 89% | 0.2 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | Early | ton | 70,835 | 35% | 8.6 | 15 | \$132,173 | 89% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | New | ton | 52,831 | 13% | 2.3 | 15 | \$39,556 | 89% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | ROB | ton | 52,831 | 13% | 2.3 | 15 | \$39,556 | 89% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | Early | ton | 118,265 | 39% | 16.1 | 15 | \$187,029 | 89% | 0.2 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | New | ton | 84,321 | 15% | 4.3 | 15 | \$33,554 | 89% | 0.3 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | ROB | ton | 118,265 | 39% | 16.1 | 15 | \$33,554 | 89% | 1.1 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | Early | ton | 20,695 | 30% | 2.1 | 15 | \$32,398 | 89% | 0.1 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | New | ton | 16,396 | 11% | 0.6 | 15 | \$7,188 | 89% | 0.2 |
| FE-WPP | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | ROB | ton | 20,695 | 30% | 2.1 | 15 | \$7,188 | 89% | 0.7 |
| FE-WPP | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Warehouse | Cooling Central | Existing | building | 2,286 | 1.1% | 0.01 | 10 | \$42,091 | 81% | 0.0 |
| FE-WPP | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Warehouse | Cooling Central | New | building | 2,286 | 1.1% | 0.01 | 10 | \$42,091 | 81% | 0.0 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Warehouse | Cooling Central | Existing | building | 2,286 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.1 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Warehouse | Cooling Central | New | building | 2,286 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.2 |
| FE-WPP | Re-Commissioning (Existing Construction) | No Re-Commissioning | Warehouse | Cooling Central | Existing | building | 2,286 | 16% | 0.2 | 5 | \$8,619 | 86% | 0.0 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Warehouse | Cooling Central | Existing | building | 2,286 | 19% | 0.2 | 15 | \$6,551 | 26% | 0.1 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Warehouse | Cooling Central | New | building | 2,286 | 0.6% | 0.01 | 15 | \$5,025 | 94% | 0.0 |
| FE-WPP | <65k BTU/hr 14 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Warehouse | Cooling Unitary | Early | ton | 5,057 | 16% | 0.2 | 15 | \$1,545 | 28% | 0.4 |
| FE-WPP | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Warehouse | Cooling Unitary | New | ton | 4,580 | 7.1% | 0.07 | 15 | \$339 | 28% | 0.7 |
| FE-WPP | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Warehouse | Cooling Unitary | ROB | ton | 4,580 | 7.1% | 0.07 | 15 | \$339 | 28% | 0.7 |
| FE-WPP | <65k BTU/hr 15 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Warehouse | Cooling Unitary | Early | ton | 5,057 | 22% | 0.2 | 15 | \$1,821 | 28% | 0.4 |
| FE-WPP | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Warehouse | Cooling Unitary | New | ton | 4,580 | 13% | 0.1 | 15 | \$714 | 28% | 0.6 |
| FE-WPP | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Warehouse | Cooling Unitary | ROB | ton | 4,580 | 13% | 0.1 | 15 | \$714 | 28% | 0.6 |
| FE-WPP | <65k BTU/hr 16 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Warehouse | Cooling Unitary | Early | ton | 5,057 | 26% | 0.3 | 15 | \$2,098 | 29% | 0.4 |
| FE-WPP | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Warehouse | Cooling Unitary | New | ton | 4,580 | 19% | 0.2 | 15 | \$1,089 | 29% | 0.5 |
| FE-WPP | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Warehouse | Cooling Unitary | ROB | ton | 4,580 | 19% | 0.2 | 15 | \$1,089 | 29% | 0.5 |
| FE-WPP | >760k min 10.2 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Warehouse | Cooling Unitary | Early | ton | 127,951 | 3.7% | 1.1 | 15 | \$68,066 | 35% | 0.0 |
| FE-WPP | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Warehouse | Cooling Unitary | New | ton | 129,592 | 4.9% | 1.4 | 15 | \$6,231 | 35% | 0.7 |
| FE-WPP | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Warehouse | Cooling Unitary | ROB | ton | 129,592 | 4.9% | 1.4 | 15 | \$6,231 | 35% | 0.7 |
| FE-WPP | 135-240k min 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Warehouse | Cooling Unitary | Early | ton | 31,483 | 18% | 1.3 | 15 | \$18,135 | 35% | 0.2 |
| FE-WPP | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Warehouse | Cooling Unitary | New | ton | 28,639 | 10.0% | 0.6 | 15 | \$1,948 | 35% | 1.0 |
| FE-WPP | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Warehouse | Cooling Unitary | ROB | ton | 28,639 | 10.0% | 0.6 | 15 | \$1,948 | 35% | 1.0 |
| FE-WPP | 240k-760k min 11 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Warehouse | Cooling Unitary | Early | ton | 84,178 | 9.0% | 1.7 | 15 | \$44,809 | 35% | 0.1 |
| FE-WPP | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Warehouse | Cooling Unitary | New | ton | 84,388 | 9.3% | 1.7 | 15 | \$4,813 | 35% | 1.1 |
| FE-WPP | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Warehouse | Cooling Unitary | ROB | ton | 84,388 | 9.3% | 1.7 | 15 | \$4,813 | 35% | 1.1 |
| FE-WPP | 65k-135k BTU/hr 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Warehouse | Cooling Unitary | Early | ton | 18,559 | 17% | 0.7 | 15 | \$10,946 | 35% | 0.2 |
| FE-WPP | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Warehouse | Cooling Unitary | New | ton | 16,540 | 6.7% | 0.2 | 15 | \$1,392 | 35% | 0.5 |
| FE-WPP | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Warehouse | Cooling Unitary | ROB | ton | 16,540 | 6.7% | 0.2 | 15 | \$1,392 | 35% | 0.5 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Warehouse | Cooling Unitary | Existing | building | 21,208 | 7.0% | 0.07 | 6 | \$20,110 | 82% | 0.0 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Warehouse | Cooling Unitary | New | building | 21,208 | 7.0% | 0.07 | 6 | \$20,110 | 82% | 0.0 |
| FE-WPP | Adding window shade film | No shade film | Warehouse | Cooling Unitary | Existing | building | 21,208 | 1.3% | 0.4 | 10 | \$258 | 12% | 1.3 |
| FE-WPP | Adding window shade film | No shade film | Warehouse | Cooling Unitary | New | building | 21,208 | 1.3% | 0.4 | 10 | \$258 | 13% | 1.3 |
| FE-WPP | Adding window shade screen | No shade screen | Warehouse | Cooling Unitary | Existing | building | 21,208 | 1.1% | 0.01 | 10 | \$100 | 12% | 0.9 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|---|-----------|-----------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Adding window shade screen | No shade screen | Warehouse | Cooling Unitary | New | building | 21,208 | 1.1% | 0.01 | 10 | \$100 | 13% | 0.9 |
| FE-WPP | Automated control system | Manual Controls | Warehouse | Cooling Unitary | Existing | building | 21,208 | 17% | 0.2 | 15 | \$23,218 | 51% | 0.1 |
| FE-WPP | Automated control system | Manual Controls | Warehouse | Cooling Unitary | New | building | 21,208 | 17% | 0.2 | 15 | \$23,218 | 94% | 0.1 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Warehouse | Cooling Unitary | Existing | building | 21,208 | 5.9% | 0.06 | 15 | \$27,901 | 71% | 0.0 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Warehouse | Cooling Unitary | New | building | 21,208 | 3.7% | 0.04 | 15 | \$26,520 | 94% | 0.0 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Warehouse | Cooling Unitary | Existing | building | 21,208 | 1.4% | 0.04 | 15 | \$168 | 20% | 1.1 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Warehouse | Cooling Unitary | New | building | 21,208 | 1.4% | 0.04 | 15 | \$168 | 10% | 1.1 |
| FE-WPP | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Warehouse | Cooling Unitary | Existing | building | 11,664 | 13% | 0.1 | 1 | \$112 | 73% | 0.8 |
| FE-WPP | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Warehouse | Cooling Unitary | New | building | 11,664 | 13% | 0.1 | 1 | \$112 | 73% | 0.8 |
| FE-WPP | ECM Motors for split systems | Std Shaded Pole Motor | Warehouse | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 35% | 2.7 |
| FE-WPP | ECM Motors for split systems | Std Shaded Pole Motor | Warehouse | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 35% | 2.7 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Warehouse | Cooling Unitary | Existing | building | 21,208 | 7.1% | 0.07 | 15 | \$94,074 | 25% | 0.0 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Warehouse | Cooling Unitary | New | building | 21,208 | 7.1% | 0.07 | 15 | \$94,074 | 35% | 0.0 |
| FE-WPP | Hi Eff HVAC System Design | No HVAC Design | Warehouse | Cooling Unitary | New | building | 21,208 | 12% | 0.1 | 10 | \$10,177 | 51% | 0.1 |
| FE-WPP | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Warehouse | Cooling Unitary | Existing | building | 21,208 | 5.0% | 0.05 | 5 | \$225 | 59% | 1.0 |
| FE-WPP | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Warehouse | Cooling Unitary | Existing | building | 21,208 | 0.7% | 0.05 | 5 | \$225 | 51% | 0.2 |
| FE-WPP | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Warehouse | Cooling Unitary | New | building | 21,208 | 0.6% | 0.05 | 5 | \$135 | 51% | 0.3 |
| FE-WPP | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Warehouse | Cooling Unitary | Existing | building | 21,208 | 1.1% | 0.01 | 10 | \$45,236 | 86% | 0.0 |
| FE-WPP | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Warehouse | Cooling Unitary | New | building | 21,208 | 1.1% | 0.01 | 10 | \$45,236 | 86% | 0.0 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) | Warehouse | Cooling Unitary | Existing | building | 21,208 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.6 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Warehouse | Cooling Unitary | New | building | 21,208 | 1.7% | 0.02 | 11 | \$146 | 49% | 1.0 |
| FE-WPP | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Warehouse | Cooling Unitary | Early | unit | 180 | 19% | 0.08 | 15 | \$849 | 80% | 0.1 |
| FE-WPP | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Warehouse | Cooling Unitary | New | unit | 182 | 20% | 0.08 | 15 | \$356 | 80% | 0.2 |
| FE-WPP | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Warehouse | Cooling Unitary | ROB | unit | 182 | 20% | 0.08 | 15 | \$356 | 80% | 0.2 |
| FE-WPP | Re-Commissioning (Existing Construction) | No Re-Commissioning | Warehouse | Cooling Unitary | Existing | building | 21,208 | 16% | 0.2 | 5 | \$8,619 | 86% | 0.1 |
| FE-WPP | Room AC (w/ louvered sides) | Exisiting efficiency Room AC in Pennsylvania (2000 Federal Standards) | Warehouse | Cooling Unitary | Early | ton | 2,384 | 13% | 0.1 | 9 | \$348 | 78% | 0.5 |
| FE-WPP | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Warehouse | Cooling Unitary | New | ton | 2,161 | 4.5% | 0.03 | 9 | \$17 | 78% | 3.0 |
| FE-WPP | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Warehouse | Cooling Unitary | ROB | ton | 2,161 | 4.5% | 0.03 | 9 | \$17 | 78% | 3.0 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Warehouse | Cooling Unitary | Existing | building | 21,208 | 19% | 0.2 | 15 | \$6,551 | 26% | 0.3 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Warehouse | Cooling Unitary | New | building | 21,208 | 0.6% | 0.01 | 15 | \$5,025 | 94% | 0.0 |
| FE-WPP | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Warehouse | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 1.0 |
| FE-WPP | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Warehouse | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.3 |
| FE-WPP | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Warehouse | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.3 |
| FE-WPP | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Warehouse | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 0% | 0.2 |
| FE-WPP | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Warehouse | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-WPP | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Warehouse | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| FE-WPP | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Warehouse | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 48% | 0.3 |
| FE-WPP | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Warehouse | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 48% | 0.2 |
| FE-WPP | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Warehouse | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 48% | 2.6 |
| FE-WPP | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Warehouse | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 48% | 2.0 |
| FE-WPP | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Warehouse | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 48% | 2.6 |
| FE-WPP | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Warehouse | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 48% | 2.0 |
| FE-WPP | Photocell Controls (Outdoor) | Lighting w/ No Controls | Warehouse | Ext. Lighting | Existing | building | 205 | 28% | 0.3 | 8 | \$3,718 | 88% | 0.0 |
| FE-WPP | Photocell Controls (Outdoor) | Lighting w/ No Controls | Warehouse | Ext. Lighting | New | building | 205 | 28% | 0.3 | 8 | \$3,718 | 0% | 0.0 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Warehouse | Heat Pump | Existing | building | 2,164 | 6.9% | 0.07 | 6 | \$20,110 | 82% | 0.0 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Warehouse | Heat Pump | New | building | 2,164 | 6.9% | 0.07 | 6 | \$20,110 | 82% | 0.0 |
| FE-WPP | Adding window shade film | No shade film | Warehouse | Heat Pump | Existing | building | 2,164 | 3.9% | 0.4 | 10 | \$26 | 12% | 10.3 |
| FE-WPP | Adding window shade film | No shade film | Warehouse | Heat Pump | New | building | 2,164 | 3.9% | 0.4 | 10 | \$26 | 12% | 10.3 |
| FE-WPP | Adding window shade screen | No shade screen | Warehouse | Heat Pump | Existing | building | 2,164 | 0.3% | 0.01 | 10 | \$3.4 | 12% | 2.7 |
| FE-WPP | Adding window shade screen | No shade screen | Warehouse | Heat Pump | New | building | 2,164 | 0.3% | 0.01 | 10 | \$3.4 | 12% | 2.7 |
| FE-WPP | Automated control system | Manual Controls | Warehouse | Heat Pump | Existing | building | 2,164 | 17% | 0.2 | 15 | \$2,369 | 51% | 0.1 |
| FE-WPP | Automated control system | Manual Controls | Warehouse | Heat Pump | New | building | 2,164 | 17% | 0.2 | 15 | \$2,369 | 94% | 0.1 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Warehouse | Heat Pump | Existing | building | 2,164 | 5.9% | 0.06 | 15 | \$27,901 | 71% | 0.0 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Warehouse | Heat Pump | New | building | 2,164 | 3.7% | 0.04 | 15 | \$26,520 | 94% | 0.0 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Warehouse | Heat Pump | Existing | building | 2,164 | 4.0% | 0.04 | 15 | \$17 | 12% | 4.4 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Warehouse | Heat Pump | New | building | 2,164 | 4.0% | 0.04 | 15 | \$17 | 6% | 4.4 |
| FE-WPP | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Warehouse | Heat Pump | Early | heat pump | 2,875 | 14% | 0.03 | 15 | \$4,070 | 83% | 0.1 |
| FE-WPP | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Warehouse | Heat Pump | New | heat pump | 2,672 | 7.5% | 0.02 | 15 | \$1,097 | 83% | 0.1 |
| FE-WPP | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Warehouse | Heat Pump | ROB | heat pump | 2,672 | 7.5% | 0.02 | 15 | \$1,097 | 83% | 0.1 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Warehouse | Heat Pump | Existing | building | 2,164 | 7.0% | 0.07 | 15 | \$9,599 | 25% | 0.0 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Warehouse | Heat Pump | New | building | 2,164 | 7.0% | 0.07 | 15 | \$9,599 | 35% | 0.0 |
| FE-WPP | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Warehouse | Heat Pump | Early | heat pump | 30,914 | 22% | 0.6 | 15 | \$91,117 | 19% | 0.0 |
| FE-WPP | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Warehouse | Heat Pump | New | heat pump | 29,192 | 17% | 0.4 | 15 | \$33,927 | 19% | 0.1 |
| FE-WPP | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Warehouse | Heat Pump | ROB | heat pump | 29,192 | 17% | 0.4 | 15 | \$33,927 | 19% | 0.1 |
| FE-WPP | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Warehouse | Heat Pump | Early | heat pump | 30,914 | 22% | 0.6 | 15 | \$58,356 | 19% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|--|--|-----------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Warehouse | Heat Pump | New | heat pump | 29,192 | 17% | 0.4 | 15 | \$1,167 | 19% | 2.3 |
| FE-WPP | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Warehouse | Heat Pump | ROB | heat pump | 29,192 | 17% | 0.4 | 15 | \$1,167 | 19% | 2.3 |
| FE-WPP | Hi Eff HVAC System Design | No HVAC Design | Warehouse | Heat Pump | New | building | 2,164 | 12% | 0.1 | 10 | \$126,024 | 51% | 0.0 |
| FE-WPP | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Warehouse | Heat Pump | Early | heat pump | 7,668 | 19% | 0.1 | 12 | \$4,298 | 81% | 0.2 |
| FE-WPP | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Warehouse | Heat Pump | New | heat pump | 7,126 | 13% | 0.08 | 12 | \$852 | 81% | 0.5 |
| FE-WPP | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Warehouse | Heat Pump | ROB | heat pump | 7,126 | 13% | 0.08 | 12 | \$852 | 81% | 0.5 |
| FE-WPP | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Warehouse | Heat Pump | Existing | building | 2,164 | 5.0% | 0.01 | 5 | \$90 | 51% | 0.3 |
| FE-WPP | HVAC Diagnostic/Heat Pump Tune Up | <65000 BTU Std. Efficiency Heat Pump w/o Tune Up | Warehouse | Heat Pump | New | building | 2,164 | 5.0% | 0.01 | 5 | \$90 | 51% | 0.3 |
| FE-WPP | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Warehouse | Heat Pump | Existing | building | 2,164 | 1.1% | 0.01 | 10 | \$40,275 | 81% | 0.0 |
| FE-WPP | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Warehouse | Heat Pump | New | building | 2,164 | 1.1% | 0.01 | 10 | \$40,275 | 81% | 0.0 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Warehouse | Heat Pump | Existing | building | 2,164 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.1 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Warehouse | Heat Pump | New | building | 2,164 | 2.1% | 0.02 | 11 | \$146 | 49% | 0.2 |
| FE-WPP | Re-Commissioning (Existing Construction) | No Re-Commissioning | Warehouse | Heat Pump | Existing | building | 2,164 | 16% | 0.2 | 5 | \$8,619 | 86% | 0.0 |
| FE-WPP | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Warehouse | Heat Pump | New | measure | 290,645 | 2.0% | 0.7 | 13 | \$36,589 | 43% | 0.1 |
| FE-WPP | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Warehouse | Heat Pump | ROB | measure | 290,645 | 2.0% | 0.7 | 13 | \$36,589 | 43% | 0.1 |
| FE-WPP | Wall Insulations (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Warehouse | Heat Pump | Existing | building | 2,164 | 19% | 0.2 | 15 | \$6,551 | 26% | 0.1 |
| FE-WPP | Wall Insulations (Going upto R 21) | Code minimum Wall Insulations | Warehouse | Heat Pump | New | building | 2,164 | 0.6% | 0.01 | 15 | \$5,025 | 94% | 0.0 |
| FE-WPP | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Warehouse | Heat Pump | Early | heat pump | 11,656 | 27% | 0.3 | 15 | \$35,347 | 28% | 0.0 |
| FE-WPP | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Warehouse | Heat Pump | New | heat pump | 10,677 | 20% | 0.2 | 15 | \$15,739 | 28% | 0.1 |
| FE-WPP | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Warehouse | Heat Pump | ROB | heat pump | 10,677 | 20% | 0.2 | 15 | \$15,739 | 28% | 0.1 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | Early | Fixture | 536 | 9.6% | 0.01 | 13 | \$850 | 39% | 0.0 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Warehouse | High Bay Lighting | Early | Fixture | 535 | 9.5% | 0.01 | 13 | \$850 | 28% | 0.0 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Warehouse | High Bay Lighting | Early | Fixture | 827 | 41% | 0.08 | 13 | \$850 | 36% | 0.2 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | New | Fixture | 407 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Warehouse | High Bay Lighting | New | Fixture | 379 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Warehouse | High Bay Lighting | New | Fixture | 628 | 41% | 0.06 | 13 | \$397 | 36% | 0.4 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 536 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 499 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| FE-WPP | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 827 | 41% | 0.08 | 13 | \$397 | 36% | 0.5 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | Early | Fixture | 1,040 | 19% | 0.05 | 13 | \$851 | 38% | 0.1 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Warehouse | High Bay Lighting | Early | Fixture | 1,053 | 20% | 0.05 | 13 | \$851 | 38% | 0.2 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | Early | Fixture | 3,064 | 73% | 0.5 | 13 | \$851 | 38% | 1.6 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | New | Fixture | 791 | 19% | 0.03 | 13 | \$372 | 38% | 0.2 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | New | Fixture | 2,329 | 73% | 0.4 | 13 | \$383 | 38% | 2.7 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 1,040 | 19% | 0.05 | 13 | \$372 | 38% | 0.3 |
| FE-WPP | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 3,064 | 73% | 0.5 | 13 | \$383 | 38% | 3.5 |
| FE-WPP | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | Early | Fixture | 1,040 | 25% | 0.06 | 13 | \$554 | 29% | 0.3 |
| FE-WPP | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Warehouse | High Bay Lighting | Early | Fixture | 1,021 | 23% | 0.05 | 13 | \$554 | 28% | 0.3 |
| FE-WPP | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | Early | Fixture | 3,064 | 74% | 0.5 | 13 | \$554 | 36% | 2.5 |
| FE-WPP | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | New | Fixture | 791 | 25% | 0.04 | 13 | \$75 | 29% | 1.6 |
| FE-WPP | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | New | Fixture | 2,329 | 74% | 0.4 | 13 | \$86 | 36% | 12.3 |
| FE-WPP | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 1,040 | 25% | 0.06 | 13 | \$75 | 29% | 2.1 |
| FE-WPP | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 3,064 | 74% | 0.5 | 13 | \$86 | 36% | 16.2 |
| FE-WPP | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Warehouse | High Bay Lighting | Early | Fixture | 271 | 0.2% | 0.00 | 13 | \$835 | 38% | 0.0 |
| FE-WPP | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Warehouse | High Bay Lighting | Early | Fixture | 584 | 54% | 0.07 | 13 | \$835 | 38% | 0.2 |
| FE-WPP | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Warehouse | High Bay Lighting | New | Fixture | 444 | 54% | 0.05 | 13 | \$382 | 38% | 0.4 |
| FE-WPP | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 584 | 54% | 0.07 | 13 | \$382 | 38% | 0.5 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | Early | Fixture | 1,325 | 18% | 0.05 | 13 | \$487 | 25% | 0.3 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Warehouse | High Bay Lighting | Early | Fixture | 1,386 | 22% | 0.07 | 13 | \$487 | 28% | 0.4 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | Early | Fixture | 3,064 | 65% | 0.4 | 13 | \$487 | 36% | 2.5 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | New | Fixture | 1,007 | 18% | 0.04 | 13 | \$16 | 25% | 6.9 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | New | Fixture | 2,329 | 65% | 0.3 | 13 | \$18 | 36% | 49.8 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 1,325 | 18% | 0.05 | 13 | \$16 | 25% | 9.0 |
| FE-WPP | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 3,064 | 65% | 0.4 | 13 | \$18 | 36% | 65.5 |
| FE-WPP | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | Early | Fixture | 1,325 | 1.5% | 0.00 | 13 | \$557 | 19% | 0.0 |
| FE-WPP | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Warehouse | High Bay Lighting | Early | Fixture | 1,364 | 4.3% | 0.01 | 13 | \$557 | 19% | 0.1 |
| FE-WPP | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | Early | Fixture | 3,064 | 57% | 0.4 | 13 | \$557 | 19% | 1.9 |
| FE-WPP | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | New | Fixture | 1,007 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| FE-WPP | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | New | Fixture | 2,329 | 57% | 0.3 | 13 | \$88 | 19% | 9.2 |
| FE-WPP | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 1,325 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| FE-WPP | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 3,064 | 57% | 0.4 | 13 | \$88 | 19% | 12.1 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Warehouse | High Bay Lighting | Early | Fixture | 563 | 29% | 0.03 | 13 | \$492 | 71% | 0.2 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | Early | Fixture | 471 | 15% | 0.01 | 13 | \$492 | 95% | 0.1 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Warehouse | High Bay Lighting | Early | Fixture | 699 | 43% | 0.05 | 13 | \$492 | 95% | 0.3 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Warehouse | High Bay Lighting | Early | Fixture | 648 | 38% | 0.04 | 13 | \$492 | 95% | 0.3 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | New | Fixture | 358 | 15% | 0.01 | 13 | \$25 | 95% | 1.2 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Warehouse | High Bay Lighting | New | Fixture | 531 | 43% | 0.04 | 13 | \$51 | 95% | 2.5 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|---|-----------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 471 | 15% | 0.01 | 13 | \$25 | 95% | 1.6 |
| FE-WPP | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 699 | 43% | 0.05 | 13 | \$51 | 95% | 3.2 |
| FE-WPP | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Warehouse | High Bay Lighting | Early | lamp | 77 | 16% | 0.00 | 14 | \$7.7 | 99% | 1.0 |
| FE-WPP | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Warehouse | High Bay Lighting | New | lamp | 46 | 13% | 0.00 | 14 | \$1.6 | 91% | 2.3 |
| FE-WPP | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Warehouse | High Bay Lighting | ROB | lamp | 74 | 13% | 0.00 | 14 | \$1.6 | 91% | 3.7 |
| FE-WPP | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | Early | Fixture | 3,135 | 23% | 0.2 | 13 | \$613 | 5% | 0.7 |
| FE-WPP | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Warehouse | High Bay Lighting | Early | Fixture | 2,463 | 1.6% | 0.01 | 13 | \$613 | 28% | 0.0 |
| FE-WPP | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | Early | Fixture | 6,128 | 60% | 0.8 | 13 | \$613 | 18% | 3.7 |
| FE-WPP | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | New | Fixture | 2,383 | 23% | 0.1 | 13 | \$96 | 5% | 3.4 |
| FE-WPP | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 3,135 | 23% | 0.2 | 13 | \$96 | 5% | 4.5 |
| FE-WPP | Auto Off Time Switch | Lighting w/ No Controls | Warehouse | High Bay Lighting | Existing | building | 11,982 | 24% | 0.2 | 8 | \$755 | 13% | 1.3 |
| FE-WPP | Auto Off Time Switch | Lighting w/ No Controls | Warehouse | High Bay Lighting | New | building | 11,982 | 6.9% | 0.07 | 8 | \$755 | 0% | 0.4 |
| FE-WPP | Central Lighting Control System | Lighting w/ No Controls | Warehouse | High Bay Lighting | Existing | building | 11,982 | 38% | 0.4 | 8 | \$755 | 13% | 2.1 |
| FE-WPP | Central Lighting Control System | Lighting w/ No Controls | Warehouse | High Bay Lighting | New | building | 11,982 | 14% | 0.1 | 8 | \$755 | 13% | 0.8 |
| FE-WPP | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Warehouse | High Bay Lighting | New | building | 11,982 | 10% | 0.1 | 15 | \$31,316 | 32% | 0.0 |
| FE-WPP | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Warehouse | High Bay Lighting | New | building | 11,982 | 15% | 0.2 | 15 | \$78,291 | 32% | 0.0 |
| FE-WPP | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Warehouse | High Bay Lighting | New | building | 11,982 | 30% | 0.3 | 15 | \$112,217 | 32% | 0.0 |
| FE-WPP | Indoor Daylight Sensors | Lighting w/ No Controls | Warehouse | High Bay Lighting | Existing | building | 11,982 | 28% | 0.3 | 8 | \$3,718 | 13% | 0.3 |
| FE-WPP | Indoor Daylight Sensors | Lighting w/ No Controls | Warehouse | High Bay Lighting | New | building | 11,982 | 4.1% | 0.04 | 8 | \$3,718 | 0% | 0.0 |
| FE-WPP | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | Early | Fixture | 3,135 | 92% | 0.7 | 13 | \$1,916 | 95% | 0.9 |
| FE-WPP | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | Early | Fixture | 6,128 | 96% | 1.3 | 13 | \$1,916 | 95% | 1.9 |
| FE-WPP | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | New | Fixture | 2,383 | 92% | 0.5 | 13 | \$1,468 | 95% | 0.9 |
| FE-WPP | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | New | Fixture | 4,658 | 96% | 1.0 | 13 | \$1,149 | 95% | 2.4 |
| FE-WPP | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 3,135 | 92% | 0.7 | 13 | \$1,468 | 95% | 1.2 |
| FE-WPP | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 6,128 | 96% | 1.3 | 13 | \$1,149 | 95% | 3.1 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | Early | Fixture | 1,040 | 67% | 0.2 | 13 | \$960 | 95% | 0.4 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Warehouse | High Bay Lighting | Early | Fixture | 3,064 | 89% | 0.6 | 13 | \$960 | 95% | 1.7 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Warehouse | High Bay Lighting | Early | Fixture | 841 | 59% | 0.1 | 13 | \$960 | 95% | 0.3 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | New | Fixture | 791 | 67% | 0.1 | 13 | \$480 | 95% | 0.7 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Warehouse | High Bay Lighting | New | Fixture | 2,329 | 89% | 0.5 | 13 | \$491 | 95% | 2.6 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Warehouse | High Bay Lighting | New | Fixture | 639 | 59% | 0.08 | 13 | \$406 | 95% | 0.6 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 1,040 | 67% | 0.2 | 13 | \$480 | 95% | 0.9 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 3,064 | 89% | 0.6 | 13 | \$491 | 95% | 3.4 |
| FE-WPP | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 841 | 59% | 0.1 | 13 | \$406 | 95% | 0.7 |
| FE-WPP | Occupancy Sensor | Lighting w/ No Controls | Warehouse | High Bay Lighting | Existing | building | 11,982 | 24% | 0.2 | 8 | \$1,138 | 12% | 0.9 |
| FE-WPP | Occupancy Sensor | Lighting w/ No Controls | Warehouse | High Bay Lighting | New | building | 11,982 | 6.9% | 0.07 | 8 | \$1,138 | 0% | 0.3 |
| FE-WPP | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Warehouse | High Bay Lighting | Existing | building | 11,982 | 28% | 0.3 | 8 | \$3,718 | 12% | 0.3 |
| FE-WPP | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Warehouse | High Bay Lighting | New | building | 11,982 | 4.0% | 0.04 | 8 | \$3,718 | 0% | 0.0 |
| FE-WPP | Time Clock Control | Lighting w/ No Controls | Warehouse | High Bay Lighting | Existing | building | 11,982 | 28% | 0.3 | 8 | \$755 | 13% | 1.5 |
| FE-WPP | Time Clock Control | Lighting w/ No Controls | Warehouse | High Bay Lighting | New | building | 11,982 | 4.0% | 0.04 | 8 | \$755 | 0% | 0.2 |
| FE-WPP | Auto Off Time Switch | Lighting w/ No Controls | Warehouse | Lin. Fluor. Lighting | Existing | building | 6,342 | 24% | 0.2 | 8 | \$755 | 13% | 0.8 |
| FE-WPP | Auto Off Time Switch | Lighting w/ No Controls | Warehouse | Lin. Fluor. Lighting | New | building | 6,342 | 6.9% | 0.07 | 8 | \$755 | 0% | 0.2 |
| FE-WPP | Central Lighting Control System | Lighting w/ No Controls | Warehouse | Lin. Fluor. Lighting | Existing | building | 6,342 | 38% | 0.4 | 8 | \$755 | 12% | 1.2 |
| FE-WPP | Central Lighting Control System | Lighting w/ No Controls | Warehouse | Lin. Fluor. Lighting | New | building | 6,342 | 14% | 0.1 | 8 | \$755 | 12% | 0.5 |
| FE-WPP | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Warehouse | Lin. Fluor. Lighting | New | building | 6,342 | 10% | 0.1 | 15 | \$31,316 | 32% | 0.0 |
| FE-WPP | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Warehouse | Lin. Fluor. Lighting | New | building | 6,342 | 15% | 0.2 | 15 | \$78,291 | 32% | 0.0 |
| FE-WPP | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Warehouse | Lin. Fluor. Lighting | New | building | 6,342 | 30% | 0.3 | 15 | \$112,217 | 32% | 0.0 |
| FE-WPP | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Warehouse | Lin. Fluor. Lighting | Early | Lamp | 155 | 38% | 0.01 | 14 | \$7.3 | 94% | 5.0 |
| FE-WPP | Indoor Daylight Sensors | Lighting w/ No Controls | Warehouse | Lin. Fluor. Lighting | Existing | building | 6,342 | 28% | 0.3 | 8 | \$3,718 | 13% | 0.2 |
| FE-WPP | Indoor Daylight Sensors | Lighting w/ No Controls | Warehouse | Lin. Fluor. Lighting | New | building | 6,342 | 4.1% | 0.04 | 8 | \$3,718 | 0% | 0.0 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | Early | Lamp | 68 | 19% | 0.00 | 15 | \$35 | 94% | 0.3 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 40W T12 Lamp, Magnetic Ballast | Warehouse | Lin. Fluor. Lighting | Early | Lamp | 149 | 63% | 0.02 | 15 | \$35 | 94% | 1.8 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | Early | Lamp | 84 | 34% | 0.01 | 15 | \$35 | 94% | 0.6 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | Early | Lamp | 81 | 32% | 0.01 | 15 | \$35 | 94% | 0.5 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | New | Lamp | 52 | 19% | 0.00 | 15 | \$28 | 94% | 0.2 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | New | Lamp | 62 | 32% | 0.00 | 15 | \$29 | 94% | 0.5 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | New | Lamp | 64 | 34% | 0.00 | 15 | \$22 | 94% | 0.7 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | New | Lamp | 62 | 32% | 0.00 | 15 | \$29 | 94% | 0.5 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | ROB | Lamp | 68 | 19% | 0.00 | 15 | \$28 | 94% | 0.3 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | ROB | Lamp | 81 | 32% | 0.01 | 15 | \$29 | 94% | 0.6 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | ROB | Lamp | 84 | 34% | 0.01 | 15 | \$22 | 94% | 0.9 |
| FE-WPP | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | ROB | Lamp | 81 | 32% | 0.01 | 15 | \$29 | 94% | 0.6 |
| FE-WPP | Occupancy Sensor | Lighting w/ No Controls | Warehouse | Lin. Fluor. Lighting | Existing | building | 6,342 | 24% | 0.2 | 8 | \$1,138 | 13% | 0.5 |
| FE-WPP | Occupancy Sensor | Lighting w/ No Controls | Warehouse | Lin. Fluor. Lighting | New | building | 6,342 | 7.0% | 0.07 | 8 | \$1,138 | 0% | 0.1 |
| FE-WPP | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Warehouse | Lin. Fluor. Lighting | Existing | building | 6,342 | 28% | 0.3 | 8 | \$3,718 | 12% | 0.2 |
| FE-WPP | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Warehouse | Lin. Fluor. Lighting | New | building | 6,342 | 4.1% | 0.04 | 8 | \$3,718 | 0% | 0.0 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 40W T12 w/ Magnetic Ballast | Warehouse | Lin. Fluor. Lighting | Early | Lamp | 155 | 54% | 0.02 | 14 | \$9.1 | 94% | 5.7 |
| FE-WPP | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | Early | Lamp | 99 | 28% | 0.01 | 14 | \$9.1 | 24% | 1.9 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|--|-----------|---------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Variable Speed Drive Control, 40HP | Existing Motors w/out VSD Drive | Warehouse | Motors | Early | motor | 97,245 | 71% | 10.1 | 15 | \$4,666 | 86% | 9.1 |
| FE-WPP | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Warehouse | Motors | New | motor | 96,108 | 71% | 10.1 | 15 | \$4,666 | 86% | 9.1 |
| FE-WPP | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Warehouse | Motors | ROB | motor | 96,108 | 71% | 10.1 | 15 | \$4,666 | 86% | 9.1 |
| FE-WPP | Variable Speed Drive Control, 5HP | Existing Motors w/out VFD Drive | Warehouse | Motors | Early | motor | 12,920 | 72% | 1.4 | 15 | \$2,243 | 86% | 2.5 |
| FE-WPP | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Warehouse | Motors | New | motor | 12,631 | 71% | 1.3 | 15 | \$2,243 | 86% | 2.5 |
| FE-WPP | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Warehouse | Motors | ROB | motor | 12,631 | 71% | 1.3 | 15 | \$2,243 | 86% | 2.5 |
| FE-WPP | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Warehouse | Motors | Early | motor | 3,717 | 30% | 0.1 | 15 | \$268 | 13% | 2.5 |
| FE-WPP | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Warehouse | Motors | New | motor | 3,717 | 30% | 0.1 | 15 | \$268 | 13% | 2.5 |
| FE-WPP | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Warehouse | Motors | ROB | motor | 3,717 | 30% | 0.1 | 15 | \$268 | 13% | 2.5 |
| FE-WPP | VFD on Chilled Water Pump | Motor w/out VFD Drive | Warehouse | Motors | Early | motor | 16,590 | 55% | 2.7 | 15 | \$2,903 | 86% | 2.3 |
| FE-WPP | VFD on Chilled Water Pump | Motor w/out VFD Drive | Warehouse | Motors | New | motor | 16,280 | 55% | 2.7 | 15 | \$2,843 | 86% | 2.3 |
| FE-WPP | VFD on Chilled Water Pump | Motor w/out VFD Drive | Warehouse | Motors | ROB | motor | 16,280 | 55% | 2.7 | 15 | \$2,843 | 86% | 2.3 |
| FE-WPP | VFD on Condenser Water Pump | Motor w/out VFD Drive | Warehouse | Motors | Early | motor | 18,641 | 32% | 3.2 | 15 | \$2,903 | 86% | 1.9 |
| FE-WPP | VFD on Condenser Water Pump | Motor w/out VFD Drive | Warehouse | Motors | New | motor | 18,292 | 33% | 3.1 | 15 | \$2,843 | 86% | 1.9 |
| FE-WPP | VFD on Condenser Water Pump | Motor w/out VFD Drive | Warehouse | Motors | ROB | motor | 18,292 | 33% | 3.1 | 15 | \$2,843 | 86% | 1.9 |
| FE-WPP | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Warehouse | Motors | Early | motor | 27,718 | 56% | 0.00 | 15 | \$2,903 | 86% | 2.5 |
| FE-WPP | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Warehouse | Motors | New | motor | 27,199 | 57% | 0.00 | 15 | \$2,843 | 86% | 2.6 |
| FE-WPP | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Warehouse | Motors | ROB | motor | 27,199 | 57% | 0.00 | 15 | \$2,843 | 86% | 2.6 |
| FE-WPP | VFD on HVAC Fan | Motor w/out VFD | Warehouse | Motors | Early | motor | 18,724 | 70% | 3.4 | 15 | \$2,903 | 86% | 3.2 |
| FE-WPP | VFD on HVAC Fan | Motor w/out VFD | Warehouse | Motors | New | motor | 18,373 | 71% | 3.3 | 15 | \$2,843 | 86% | 3.3 |
| FE-WPP | VFD on HVAC Fan | Motor w/out VFD | Warehouse | Motors | ROB | motor | 18,373 | 71% | 3.3 | 15 | \$2,843 | 86% | 3.3 |
| FE-WPP | Elevators | Std. Eff Elevator | Warehouse | Other | ROB | measure | 89,016 | 0.3% | 0.00 | 15 | \$86 | 63% | 1.5 |
| FE-WPP | Variable Speed Drives on Process Equipment | Constant speed control | Warehouse | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 9% | 10.1 |
| FE-WPP | Variable Speed Drives on Process Equipment | Constant speed control | Warehouse | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 9% | 10.1 |
| FE-WPP | Auto Off Time Switch | Lighting w/ No Controls | Warehouse | Other Int. Lighting | Existing | building | 2,858 | 24% | 0.2 | 8 | \$755 | 13% | 0.4 |
| FE-WPP | Auto Off Time Switch | Lighting w/ No Controls | Warehouse | Other Int. Lighting | New | building | 2,858 | 7.0% | 0.07 | 8 | \$755 | 0% | 0.1 |
| FE-WPP | Central Lighting Control System | Lighting w/ No Controls | Warehouse | Other Int. Lighting | Existing | building | 2,858 | 38% | 0.4 | 8 | \$755 | 13% | 0.7 |
| FE-WPP | Central Lighting Control System | Lighting w/ No Controls | Warehouse | Other Int. Lighting | New | building | 2,858 | 14% | 0.1 | 8 | \$755 | 13% | 0.3 |
| FE-WPP | Cold Cathode Screw-In Bulb | 40W Incandescent Bulb | Warehouse | Other Int. Lighting | Early | lamp | 157 | 87% | 0.03 | 10 | \$30 | 14% | 2.3 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Warehouse | Other Int. Lighting | Early | lamp | 112 | 81% | 0.02 | 10 | \$30 | 11% | 1.5 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Warehouse | Other Int. Lighting | New | lamp | 85 | 81% | 0.02 | 10 | \$21 | 14% | 1.6 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Warehouse | Other Int. Lighting | New | lamp | 85 | 81% | 0.02 | 10 | \$23 | 14% | 1.5 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Warehouse | Other Int. Lighting | New | lamp | 85 | 81% | 0.02 | 10 | \$22 | 11% | 1.6 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Warehouse | Other Int. Lighting | ROB | lamp | 112 | 81% | 0.02 | 10 | \$21 | 14% | 2.1 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Warehouse | Other Int. Lighting | ROB | lamp | 112 | 81% | 0.02 | 10 | \$23 | 14% | 2.0 |
| FE-WPP | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Warehouse | Other Int. Lighting | ROB | lamp | 112 | 81% | 0.02 | 10 | \$22 | 11% | 2.1 |
| FE-WPP | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Warehouse | Other Int. Lighting | Early | lamp | 157 | 75% | 0.03 | 4 | \$73 | 24% | 0.4 |
| FE-WPP | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Warehouse | Other Int. Lighting | New | fixture | 171 | 65% | 0.02 | 13 | \$29 | 28% | 2.3 |
| FE-WPP | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Warehouse | Other Int. Lighting | New | lamp | 85 | 65% | 0.01 | 4 | \$29 | 28% | 0.5 |
| FE-WPP | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Warehouse | Other Int. Lighting | ROB | fixture | 225 | 65% | 0.03 | 13 | \$29 | 24% | 3.1 |
| FE-WPP | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Warehouse | Other Int. Lighting | ROB | lamp | 112 | 65% | 0.02 | 4 | \$29 | 24% | 0.6 |
| FE-WPP | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Warehouse | Other Int. Lighting | Early | lamp | 157 | 75% | 0.03 | 4 | \$3.2 | 24% | 8.6 |
| FE-WPP | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Warehouse | Other Int. Lighting | New | lamp | 85 | 65% | 0.01 | 4 | \$1.8 | 24% | 7.3 |
| FE-WPP | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Warehouse | Other Int. Lighting | ROB | lamp | 112 | 65% | 0.02 | 4 | \$1.8 | 24% | 9.6 |
| FE-WPP | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Warehouse | Other Int. Lighting | ROB | lamp | 112 | 65% | 0.02 | 4 | \$1.8 | 24% | 9.6 |
| FE-WPP | Exit Sign Retrofit: CFL replacing Incandescent | One 23W Single Sided Incandescent Exit Sign | Warehouse | Other Int. Lighting | Early | exit sign | 140 | 42% | 0.01 | 15 | \$48 | 22% | 0.7 |
| FE-WPP | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Warehouse | Other Int. Lighting | New | building | 2,858 | 10% | 0.1 | 15 | \$31,316 | 32% | 0.0 |
| FE-WPP | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Warehouse | Other Int. Lighting | New | building | 2,858 | 15% | 0.2 | 15 | \$78,291 | 32% | 0.0 |
| FE-WPP | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Warehouse | Other Int. Lighting | New | building | 2,858 | 30% | 0.3 | 15 | \$112,217 | 32% | 0.0 |
| FE-WPP | Indoor Daylight Sensors | Lighting w/ No Controls | Warehouse | Other Int. Lighting | Existing | building | 2,858 | 28% | 0.3 | 8 | \$3,718 | 13% | 0.1 |
| FE-WPP | Indoor Daylight Sensors | Lighting w/ No Controls | Warehouse | Other Int. Lighting | New | building | 2,858 | 4.1% | 0.04 | 8 | \$3,718 | 0% | 0.0 |
| FE-WPP | LED Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Warehouse | Other Int. Lighting | Early | sign | 153 | 87% | 0.02 | 15 | \$48 | 16% | 1.7 |
| FE-WPP | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Warehouse | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 1.8 |
| FE-WPP | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Warehouse | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 1.8 |
| FE-WPP | LED Task Lighting/Screw-In | 1 15W CFL bulb | Warehouse | Other Int. Lighting | Early | lamp | 43 | 33% | 0.00 | 9 | \$9.6 | 24% | 0.7 |
| FE-WPP | LED Task Lighting/Screw-In | 1 60W Incandescent Bulb | Warehouse | Other Int. Lighting | Early | lamp | 173 | 83% | 0.03 | 9 | \$9.6 | 24% | 6.8 |
| FE-WPP | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Warehouse | Other Int. Lighting | New | lamp | 94 | 77% | 0.01 | 9 | \$7.9 | 24% | 4.1 |
| FE-WPP | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Warehouse | Other Int. Lighting | New | lamp | 94 | 77% | 0.01 | 9 | \$7.9 | 24% | 4.1 |
| FE-WPP | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Warehouse | Other Int. Lighting | ROB | lamp | 124 | 77% | 0.02 | 9 | \$7.9 | 24% | 5.4 |
| FE-WPP | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Warehouse | Other Int. Lighting | ROB | lamp | 124 | 77% | 0.02 | 9 | \$7.9 | 24% | 5.4 |
| FE-WPP | Occupancy Sensor | Lighting w/ No Controls | Warehouse | Other Int. Lighting | Existing | building | 2,858 | 24% | 0.2 | 8 | \$1,138 | 12% | 0.3 |
| FE-WPP | Occupancy Sensor | Lighting w/ No Controls | Warehouse | Other Int. Lighting | New | building | 2,858 | 7.0% | 0.07 | 8 | \$1,138 | 0% | 0.1 |
| FE-WPP | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Warehouse | Other Int. Lighting | Existing | building | 2,858 | 28% | 0.3 | 8 | \$3,718 | 12% | 0.1 |
| FE-WPP | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Warehouse | Other Int. Lighting | New | building | 2,858 | 4.1% | 0.04 | 8 | \$3,718 | 0% | 0.0 |
| FE-WPP | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Warehouse | Other Int. Lighting | Early | exit sign | 140 | 100% | 0.02 | 15 | \$173 | 26% | 0.5 |
| FE-WPP | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Warehouse | Other Int. Lighting | New | exit sign | 81 | 100% | 0.01 | 15 | \$148 | 31% | 0.3 |
| FE-WPP | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Warehouse | Other Int. Lighting | ROB | exit sign | 81 | 100% | 0.01 | 15 | \$148 | 26% | 0.3 |
| FE-WPP | Time Clock Control | Lighting w/ No Controls | Warehouse | Other Int. Lighting | Existing | building | 2,858 | 28% | 0.3 | 8 | \$755 | 13% | 0.5 |
| FE-WPP | Time Clock Control | Lighting w/ No Controls | Warehouse | Other Int. Lighting | New | building | 2,858 | 4.1% | 0.04 | 8 | \$755 | 0% | 0.1 |
| FE-WPP | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Warehouse | Plug Load | Existing | building | 1,111 | 46% | 0.5 | 5 | \$189 | 4% | 1.4 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|---|-----------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Warehouse | Plug Load | New | building | 1,111 | 46% | 0.5 | 5 | \$189 | 4% | 1.4 |
| FE-WPP | Data Center - Server/Storage Consolidation | No Consolidation | Warehouse | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-WPP | Data Center - Server/Storage Consolidation | No Consolidation | Warehouse | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-WPP | Data Center - Server/Storage Virtualization | No Virtualization | Warehouse | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-WPP | Data Center - Server/Storage Virtualization | No Virtualization | Warehouse | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| FE-WPP | Energy Star - Scanners | Std Scanner | Warehouse | Plug Load | New | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| FE-WPP | Energy Star - Scanners | Std Scanner | Warehouse | Plug Load | ROB | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| FE-WPP | Energy Star Dishwasher | Existing Dishwasher units | Warehouse | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,580 | 1% | 1.0 |
| FE-WPP | Energy Star Dishwasher | Standard Dishwasher unit | Warehouse | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 1% | 3.1 |
| FE-WPP | Energy Star Dishwasher | Standard Dishwasher unit | Warehouse | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 1% | 3.1 |
| FE-WPP | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Warehouse | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 16% | 0.2 |
| FE-WPP | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Warehouse | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 16% | 1.9 |
| FE-WPP | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Warehouse | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 16% | 1.9 |
| FE-WPP | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Warehouse | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 9% | 0.8 |
| FE-WPP | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Warehouse | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.6 |
| FE-WPP | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Warehouse | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.6 |
| FE-WPP | ENERGY STAR® Copiers | 10% Less Efficient Copier | Warehouse | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 17% | 0.0 |
| FE-WPP | ENERGY STAR® Copiers | One Conventional Copier | Warehouse | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 17% | 0.0 |
| FE-WPP | ENERGY STAR® Copiers | One Conventional Copier | Warehouse | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 17% | 0.0 |
| FE-WPP | ENERGY STAR® desktop | Standard computer | Warehouse | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 69% | 0.1 |
| FE-WPP | ENERGY STAR® desktop | Standard computer | Warehouse | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.3 |
| FE-WPP | ENERGY STAR® desktop | Standard computer | Warehouse | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.3 |
| FE-WPP | ENERGY STAR® Fax | 10% Less Efficient Fax | Warehouse | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 15% | 0.0 |
| FE-WPP | ENERGY STAR® Fax | One Conventional Fax | Warehouse | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| FE-WPP | ENERGY STAR® Fax | One Conventional Fax | Warehouse | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| FE-WPP | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Warehouse | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 69% | 0.0 |
| FE-WPP | ENERGY STAR® Monitors | One Conventional Monitor | Warehouse | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 69% | 0.0 |
| FE-WPP | ENERGY STAR® Monitors | One Conventional Monitor | Warehouse | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 69% | 0.0 |
| FE-WPP | ENERGY STAR® Printers | 10% Less Efficient Printer | Warehouse | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 43% | 0.0 |
| FE-WPP | ENERGY STAR® Printers | One Conventional Printer | Warehouse | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 43% | 0.3 |
| FE-WPP | ENERGY STAR® Printers | One Conventional Printer | Warehouse | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$130 | 43% | 0.3 |
| FE-WPP | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Warehouse | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 43% | 0.1 |
| FE-WPP | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Warehouse | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.7 |
| FE-WPP | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Warehouse | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.7 |
| FE-WPP | ENERGY STAR® Televisions | 10% Less Efficient Television | Warehouse | Plug Load | Early | Unit | 199 | 38% | 0.01 | 6 | \$672 | 41% | 0.0 |
| FE-WPP | ENERGY STAR® Televisions | One Conventional Television | Warehouse | Plug Load | New | Unit | 181 | 32% | 0.01 | 6 | \$206 | 41% | 0.1 |
| FE-WPP | ENERGY STAR® Televisions | One Conventional Television | Warehouse | Plug Load | ROB | Unit | 181 | 32% | 0.01 | 6 | \$206 | 41% | 0.1 |
| FE-WPP | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Warehouse | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 24% | 0.3 |
| FE-WPP | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Warehouse | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.6 |
| FE-WPP | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Warehouse | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.6 |
| FE-WPP | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Warehouse | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.2 |
| FE-WPP | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Warehouse | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.2 |
| FE-WPP | Network PC Power Management | No PC Power Management | Warehouse | Plug Load | Existing | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 7.0 |
| FE-WPP | Network PC Power Management | No PC Power Management | Warehouse | Plug Load | New | building | 425 | 33% | 0.3 | 5 | \$30 | 38% | 7.0 |
| FE-WPP | Smart Strip Plug Outlets | Standard plug strip/outlet | Warehouse | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.3 |
| FE-WPP | Smart Strip Plug Outlets | Standard plug strip/outlet | Warehouse | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.3 |
| FE-WPP | Smart Strip Plug Outlets | Standard plug strip/outlet | Warehouse | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-WPP | Smart Strip Plug Outlets | Standard plug strip/outlet | Warehouse | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-WPP | Smart Strip Plug Outlets | Standard plug strip/outlet | Warehouse | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-WPP | Smart Strip Plug Outlets | Standard plug strip/outlet | Warehouse | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| FE-WPP | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Warehouse | Plug Load | Existing | building | 1,111 | 46% | 0.5 | 5 | \$180 | 3% | 1.5 |
| FE-WPP | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Warehouse | Plug Load | New | building | 1,111 | 46% | 0.5 | 5 | \$180 | 3% | 1.5 |
| FE-WPP | Auto Closer on Refrigerator Door | Door w/out Autocloser | Warehouse | Refrigeration | Existing | building | 5,780 | 8.2% | 0.08 | 8 | \$642 | 40% | 0.3 |
| FE-WPP | Auto Closer on Refrigerator Door | Door w/out Autocloser | Warehouse | Refrigeration | Existing | building | 19,362 | 3.4% | 0.03 | 8 | \$476 | 40% | 0.4 |
| FE-WPP | Auto Closer on Refrigerator Door | Door w/out Autocloser | Warehouse | Refrigeration | New | building | 5,780 | 8.2% | 0.08 | 8 | \$642 | 40% | 0.3 |
| FE-WPP | Auto Closer on Refrigerator Door | Door w/out Autocloser | Warehouse | Refrigeration | New | building | 19,362 | 3.4% | 0.03 | 8 | \$476 | 40% | 0.4 |
| FE-WPP | Door Gasket- Freezer | Door w/out Gasket | Warehouse | Refrigeration | Existing | building | 5,780 | 4.4% | 0.04 | 4 | \$66 | 29% | 0.8 |
| FE-WPP | Door Gasket- Freezer | Door w/out Gasket | Warehouse | Refrigeration | New | building | 5,780 | 4.4% | 0.04 | 4 | \$66 | 29% | 0.8 |
| FE-WPP | Door Gasket- Refrigerator | Door w/out Gasket | Warehouse | Refrigeration | Existing | building | 19,362 | 1.1% | 0.01 | 4 | \$66 | 45% | 0.6 |
| FE-WPP | Door Gasket- Refrigerator | Door w/out Gasket | Warehouse | Refrigeration | New | building | 19,362 | 1.1% | 0.01 | 4 | \$66 | 45% | 0.6 |
| FE-WPP | eCube | Refrigeration unit w/out eCube | Warehouse | Refrigeration | Existing | building | 19,362 | 15% | 0.2 | 15 | \$144 | 57% | 10.4 |
| FE-WPP | eCube | Refrigeration unit w/out eCube | Warehouse | Refrigeration | New | building | 19,362 | 15% | 0.2 | 15 | \$144 | 57% | 10.4 |
| FE-WPP | Efficient compressor motor | Base Refrigeration System - Grocery | Warehouse | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| FE-WPP | Efficient compressor motor | Base Refrigeration System - Grocery | Warehouse | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| FE-WPP | Efficient compressor motor | Base Refrigeration System - Grocery | Warehouse | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| FE-WPP | Efficient compressor motor | Base Refrigeration System - Grocery | Warehouse | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| FE-WPP | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Warehouse | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.5 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|--|-----------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Warehouse | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| FE-WPP | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Warehouse | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| FE-WPP | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Warehouse | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.3 |
| FE-WPP | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Warehouse | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.7 |
| FE-WPP | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Warehouse | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.7 |
| FE-WPP | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Warehouse | Refrigeration | Existing | building | 19,362 | 0.6% | 0.01 | 10 | \$369 | 77% | 0.1 |
| FE-WPP | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Warehouse | Refrigeration | New | building | 19,362 | 0.6% | 0.01 | 10 | \$369 | 77% | 0.1 |
| FE-WPP | Floating head pressure controller | System w/out FHPC | Warehouse | Refrigeration | Existing | building | 5,780 | 4.0% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-WPP | Floating head pressure controller | System w/out FHPC | Warehouse | Refrigeration | Existing | building | 19,362 | 0.4% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| FE-WPP | Floating head pressure controller | System w/out FHPC | Warehouse | Refrigeration | New | building | 5,780 | 4.0% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| FE-WPP | Floating head pressure controller | System w/out FHPC | Warehouse | Refrigeration | New | building | 19,362 | 0.4% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| FE-WPP | High Efficiency Commercial Freezer | Std. Commercial Freezer | Warehouse | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 86% | 0.3 |
| FE-WPP | High Efficiency Commercial Freezer | Std. Commercial Freezer | Warehouse | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 3.6 |
| FE-WPP | High Efficiency Commercial Freezer | Std. Commercial Freezer | Warehouse | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 3.6 |
| FE-WPP | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Warehouse | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 2% | 0.1 |
| FE-WPP | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Warehouse | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.8 |
| FE-WPP | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Warehouse | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.8 |
| FE-WPP | High Efficiency Ice Maker | Existing Standard Efficiency Ice Maker in Pennsylvania | Warehouse | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 73% | 0.1 |
| FE-WPP | High Efficiency Ice Maker | Standard code minimum Ice Maker | Warehouse | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| FE-WPP | High Efficiency Ice Maker | Standard code minimum Ice Maker | Warehouse | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| FE-WPP | High Efficiency Ice Making Head | Standard Ice Making Head | Warehouse | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.6 |
| FE-WPP | High Efficiency Ice Making Head | Standard Ice Making Head | Warehouse | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.6 |
| FE-WPP | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Warehouse | Refrigeration | Early | Fixture | 373 | 56% | 0.02 | 8 | \$448 | 47% | 0.2 |
| FE-WPP | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Warehouse | Refrigeration | New | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 47% | 0.3 |
| FE-WPP | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Warehouse | Refrigeration | ROB | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 47% | 0.3 |
| FE-WPP | Quick acting freezer doors | Std. Freezer Doors | Warehouse | Refrigeration | Existing | building | 5,780 | 13% | 0.1 | 10 | \$2,293 | 56% | 0.1 |
| FE-WPP | Quick acting freezer doors | Std. Freezer Doors | Warehouse | Refrigeration | New | building | 5,780 | 13% | 0.1 | 10 | \$2,293 | 56% | 0.1 |
| FE-WPP | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Warehouse | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 30% | 0.4 |
| FE-WPP | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Warehouse | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.5 |
| FE-WPP | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Warehouse | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.5 |
| FE-WPP | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 30% | 1.5 |
| FE-WPP | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 2.6 |
| FE-WPP | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 2.6 |
| FE-WPP | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 30% | 1.5 |
| FE-WPP | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 3.5 |
| FE-WPP | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 3.5 |
| FE-WPP | Refrigeration Commissioning | Non-commissioned refrigeration system | Warehouse | Refrigeration | Existing | building | 28,899 | 9.5% | 0.10 | 3 | \$4,963 | 85% | 0.1 |
| FE-WPP | Refrigeration Commissioning | Non-commissioned refrigeration system | Warehouse | Refrigeration | New | building | 28,899 | 9.5% | 0.10 | 3 | \$4,963 | 85% | 0.1 |
| FE-WPP | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Warehouse | Refrigeration | Existing | building | 5,780 | 11% | 0.1 | 4 | \$80 | 22% | 1.6 |
| FE-WPP | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Warehouse | Refrigeration | Existing | building | 19,362 | 1.5% | 0.02 | 4 | \$80 | 22% | 0.6 |
| FE-WPP | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Warehouse | Refrigeration | New | building | 5,780 | 11% | 0.1 | 4 | \$80 | 22% | 1.6 |
| FE-WPP | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Warehouse | Refrigeration | New | building | 19,362 | 1.5% | 0.02 | 4 | \$80 | 22% | 0.6 |
| FE-WPP | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Warehouse | Refrigeration | Existing | building | 5,780 | 2.6% | 0.03 | 11 | \$152 | 80% | 0.5 |
| FE-WPP | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Warehouse | Refrigeration | New | building | 5,780 | 2.6% | 0.03 | 11 | \$152 | 80% | 0.5 |
| FE-WPP | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Warehouse | Refrigeration | Existing | building | 19,362 | 2.0% | 0.02 | 11 | \$152 | 80% | 1.0 |
| FE-WPP | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Warehouse | Refrigeration | New | building | 19,362 | 2.0% | 0.02 | 11 | \$152 | 80% | 1.0 |
| FE-WPP | VSD Controlled Compressor | Compressor w/out VSD | Warehouse | Refrigeration | Early | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |
| FE-WPP | VSD Controlled Compressor | Compressor w/out VSD | Warehouse | Refrigeration | New | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |
| FE-WPP | VSD Controlled Compressor | Compressor w/out VSD | Warehouse | Refrigeration | ROB | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |
| FE-WPP | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Warehouse | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$269 | 35% | 0.8 |
| FE-WPP | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Warehouse | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$269 | 35% | 0.8 |
| FE-WPP | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Warehouse | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 2.8 |
| FE-WPP | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Warehouse | Refrigeration | New | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 2.7 |
| FE-WPP | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Warehouse | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 2.8 |
| FE-WPP | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Warehouse | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 2.7 |
| FE-WPP | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 35% | 2.1 |
| FE-WPP | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 35% | 2.0 |
| FE-WPP | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 4.6 |
| FE-WPP | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.3 |
| FE-WPP | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 4.6 |
| FE-WPP | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.3 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Warehouse | Space Heating | Existing | building | 11,177 | 7.1% | 0.07 | 6 | \$20,110 | 82% | 0.0 |
| FE-WPP | Adding reflective roof treatment | Std color roof | Warehouse | Space Heating | New | building | 11,177 | 7.1% | 0.07 | 6 | \$20,110 | 82% | 0.0 |
| FE-WPP | Adding window shade film | No shade film | Warehouse | Space Heating | Existing | building | 11,177 | 1.3% | 0.4 | 10 | \$136 | 13% | 2.1 |
| FE-WPP | Adding window shade film | No shade film | Warehouse | Space Heating | New | building | 11,177 | 1.3% | 0.4 | 10 | \$136 | 13% | 2.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|--|---|-----------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Adding window shade screen | No shade screen | Warehouse | Space Heating | Existing | building | 11,177 | 1.1% | 0.01 | 10 | \$53 | 13% | 0.9 |
| FE-WPP | Adding window shade screen | No shade screen | Warehouse | Space Heating | New | building | 11,177 | 1.1% | 0.01 | 10 | \$53 | 13% | 0.9 |
| FE-WPP | Automated control system | Manual Controls | Warehouse | Space Heating | Existing | building | 11,177 | 17% | 0.2 | 15 | \$12,236 | 51% | 0.1 |
| FE-WPP | Automated control system | Manual Controls | Warehouse | Space Heating | New | building | 11,177 | 17% | 0.2 | 15 | \$12,236 | 94% | 0.1 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Warehouse | Space Heating | Existing | building | 11,177 | 5.9% | 0.06 | 15 | \$27,901 | 71% | 0.0 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Warehouse | Space Heating | New | building | 11,177 | 3.7% | 0.04 | 15 | \$26,520 | 94% | 0.0 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Warehouse | Space Heating | Existing | building | 11,177 | 1.4% | 0.04 | 15 | \$89 | 20% | 1.2 |
| FE-WPP | Duct Insulation, Add R8 | No Insulation | Warehouse | Space Heating | New | building | 11,177 | 1.4% | 0.04 | 15 | \$89 | 10% | 1.2 |
| FE-WPP | Efficient Unit Heating System | Existing Unit Heaters in PA | Warehouse | Space Heating | Early | heater | 18,988 | 23% | 0.03 | 15 | \$3,289 | 83% | 0.6 |
| FE-WPP | Efficient Unit Heating System | Std. Unit Heater | Warehouse | Space Heating | New | heater | 16,852 | 13% | 0.02 | 15 | \$1,991 | 83% | 0.5 |
| FE-WPP | Efficient Unit Heating System | Std. Unit Heater | Warehouse | Space Heating | ROB | heater | 16,852 | 13% | 0.02 | 15 | \$1,991 | 83% | 0.5 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Warehouse | Space Heating | Existing | building | 11,177 | 7.1% | 0.07 | 15 | \$49,577 | 25% | 0.0 |
| FE-WPP | Green Roof (New construction or roof replacement) | Std Roof | Warehouse | Space Heating | New | building | 11,177 | 7.1% | 0.07 | 15 | \$49,577 | 35% | 0.0 |
| FE-WPP | Hi Eff HVAC System Design | No HVAC Design | Warehouse | Space Heating | New | building | 11,177 | 12% | 0.1 | 10 | \$126,024 | 51% | 0.0 |
| FE-WPP | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Warehouse | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 0.9 |
| FE-WPP | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Warehouse | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 0.9 |
| FE-WPP | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Warehouse | Space Heating | Existing | building | 11,177 | 1.1% | 0.01 | 10 | \$7,735 | 81% | 0.0 |
| FE-WPP | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Warehouse | Space Heating | New | building | 11,177 | 1.1% | 0.01 | 10 | \$7,735 | 81% | 0.0 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Warehouse | Space Heating | Existing | building | 11,177 | 3.6% | 0.04 | 11 | \$286 | 49% | 0.6 |
| FE-WPP | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Warehouse | Space Heating | New | building | 11,177 | 3.1% | 0.03 | 11 | \$146 | 49% | 1.0 |
| FE-WPP | Re-Commissioning (Existing Construction) | No Re-Commissioning | Warehouse | Space Heating | Existing | building | 11,177 | 16% | 0.2 | 5 | \$8,619 | 86% | 0.0 |
| FE-WPP | VFD on Cooling Tower Fan | Motor w/out VFD | Warehouse | Space Heating | Early | motor | 18,724 | 70% | 3.4 | 15 | \$2,843 | 88% | 3.2 |
| FE-WPP | VFD on Cooling Tower Fan | Motor w/out VFD | Warehouse | Space Heating | New | motor | 18,373 | 72% | 3.3 | 15 | \$2,843 | 88% | 3.1 |
| FE-WPP | VFD on Cooling Tower Fan | Motor w/out VFD | Warehouse | Space Heating | ROB | motor | 18,373 | 72% | 3.3 | 15 | \$2,843 | 88% | 3.1 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Warehouse | Space Heating | Existing | building | 11,177 | 19% | 0.2 | 15 | \$6,551 | 26% | 0.2 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Warehouse | Space Heating | New | building | 11,177 | 0.6% | 0.01 | 15 | \$5,025 | 94% | 0.0 |
| FE-WPP | Green LED Traffic Light | Green Incandescent Traffic Light | Warehouse | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 0% | 1.1 |
| FE-WPP | Green LED Traffic Light | Green Incandescent Traffic Light | Warehouse | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| FE-WPP | Green LED Traffic Light | Green Incandescent Traffic Light | Warehouse | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| FE-WPP | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Warehouse | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 0% | 2.8 |
| FE-WPP | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Warehouse | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-WPP | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Warehouse | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| FE-WPP | Induction Street Lighting | One 100W HPS Street Light Fixture | Warehouse | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 0% | 0.3 |
| FE-WPP | Induction Street Lighting | One 100W HPS Street Light Fixture | Warehouse | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.6 |
| FE-WPP | Induction Street Lighting | One 100W HPS Street Light Fixture | Warehouse | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.6 |
| FE-WPP | LED Street Lighting | One 100W HPS Street Light | Warehouse | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 0% | 0.2 |
| FE-WPP | LED Street Lighting | One 100W HPS Street Light | Warehouse | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-WPP | LED Street Lighting | One 100W HPS Street Light | Warehouse | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| FE-WPP | Red LED Traffic Light | One Red Incandescent Traffic Light | Warehouse | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 0% | 1.5 |
| FE-WPP | Red LED Traffic Light | One Red Incandescent Traffic Light | Warehouse | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| FE-WPP | Red LED Traffic Light | One Red Incandescent Traffic Light | Warehouse | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| FE-WPP | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Warehouse | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 0% | 0.1 |
| FE-WPP | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Warehouse | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-WPP | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Warehouse | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| FE-WPP | Demand controlled Circulating Systems | Constant circulation system | Warehouse | Water Heating | Existing | building | 2,399 | 20% | 0.2 | 15 | \$435 | 59% | 0.9 |
| FE-WPP | Demand controlled Circulating Systems | Constant circulation system | Warehouse | Water Heating | New | building | 2,399 | 20% | 0.2 | 15 | \$435 | 59% | 0.9 |
| FE-WPP | Drainwater Heat Recovery Water Heater | No heat recovery | Warehouse | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.7 |
| FE-WPP | Drainwater Heat Recovery Water Heater | No heat recovery | Warehouse | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.7 |
| FE-WPP | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Warehouse | Water Heating | Existing | building | 2,399 | 5.9% | 0.06 | 12 | \$14 | 85% | 7.2 |
| FE-WPP | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Warehouse | Water Heating | New | building | 2,399 | 5.9% | 0.06 | 12 | \$4.0 | 85% | 25.2 |
| FE-WPP | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Warehouse | Water Heating | Early | water heater | 7,897 | 66% | 0.9 | 10 | \$1,187 | 29% | 2.0 |
| FE-WPP | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Warehouse | Water Heating | Early | water heater | 7,897 | 66% | 0.9 | 10 | \$1,187 | 29% | 2.0 |
| FE-WPP | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Warehouse | Water Heating | New | water heater | 7,897 | 66% | 0.9 | 10 | \$1,187 | 29% | 2.0 |
| FE-WPP | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Warehouse | Water Heating | New | water heater | 7,897 | 66% | 0.9 | 10 | \$1,187 | 29% | 2.0 |
| FE-WPP | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Warehouse | Water Heating | ROB | water heater | 7,678 | 65% | 0.9 | 10 | \$1,187 | 29% | 2.0 |
| FE-WPP | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Warehouse | Water Heating | ROB | water heater | 7,678 | 65% | 0.9 | 10 | \$1,187 | 29% | 2.0 |
| FE-WPP | Heat Recovery Unit | Base Water Heating | Warehouse | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.5 |
| FE-WPP | Heat Recovery Unit | Base Water Heating | Warehouse | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.5 |
| FE-WPP | Heat Trap | No Heat Trap | Warehouse | Water Heating | New | building | 2,399 | 22% | 0.2 | 11 | \$2.4 | 21% | 146.2 |
| FE-WPP | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Warehouse | Water Heating | Early | water heater | 7,897 | 5.9% | 0.08 | 15 | \$307 | 36% | 1.0 |
| FE-WPP | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Warehouse | Water Heating | Early | water heater | 7,897 | 5.9% | 0.08 | 15 | \$307 | 36% | 1.0 |
| FE-WPP | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Warehouse | Water Heating | New | water heater | 7,678 | 3.2% | 0.04 | 15 | \$307 | 36% | 0.5 |
| FE-WPP | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Warehouse | Water Heating | New | water heater | 7,678 | 3.2% | 0.04 | 15 | \$307 | 36% | 0.5 |
| FE-WPP | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Warehouse | Water Heating | ROB | water heater | 7,678 | 3.2% | 0.04 | 15 | \$307 | 36% | 0.5 |
| FE-WPP | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Warehouse | Water Heating | ROB | water heater | 7,678 | 3.2% | 0.04 | 15 | \$307 | 36% | 0.5 |
| FE-WPP | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Warehouse | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$466 | 81% | 36.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|--|---|-----------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Warehouse | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 18.9 |
| FE-WPP | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Warehouse | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 18.8 |
| FE-WPP | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Warehouse | Water Heating | Existing | building | 2,399 | 0.8% | 0.01 | 13 | \$3.0 | 30% | 4.9 |
| FE-WPP | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Warehouse | Water Heating | New | building | 2,399 | 0.8% | 0.01 | 13 | \$3.0 | 0% | 4.9 |
| FE-WPP | Hot Water Circulation Pump Time-Clock | Constant circulation system | Warehouse | Water Heating | Existing | building | 2,399 | 5.3% | 0.05 | 10 | \$9.7 | 72% | 8.2 |
| FE-WPP | Hot Water Circulation Pump Time-Clock | Constant circulation system | Warehouse | Water Heating | New | building | 2,399 | 5.3% | 0.05 | 10 | \$9.7 | 72% | 8.2 |
| FE-WPP | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Warehouse | Water Heating | Existing | building | 2,399 | 1.2% | 0.01 | 7 | \$22 | 35% | 0.6 |
| FE-WPP | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Warehouse | Water Heating | New | building | 2,399 | 1.1% | 0.01 | 7 | \$0.5 | 35% | 25.5 |
| FE-WPP | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Warehouse | Water Heating | Existing | building | 2,399 | 8.0% | 0.08 | 5 | \$300 | 0% | 0.2 |
| FE-WPP | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Warehouse | Water Heating | New | building | 2,399 | 5.3% | 0.05 | 5 | \$194 | 0% | 0.2 |
| FE-WPP | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Warehouse | Water Heating | Existing | building | 2,399 | 6.5% | 0.07 | 9 | \$25 | 2% | 3.6 |
| FE-WPP | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Warehouse | Water Heating | New | building | 2,399 | 6.5% | 0.07 | 9 | \$6.0 | 2% | 15.0 |
| FE-WPP | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Warehouse | Water Heating | Early | water heater | 7,897 | 52% | 0.3 | 15 | \$6,222 | 14% | 0.4 |
| FE-WPP | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Warehouse | Water Heating | New | water heater | 7,678 | 51% | 0.3 | 15 | \$6,222 | 14% | 0.4 |
| FE-WPP | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Warehouse | Water Heating | ROB | water heater | 7,678 | 51% | 0.3 | 15 | \$6,222 | 14% | 0.4 |
| FE-WPP | Ultrasonic Faucet Control | Manual Faucet Control | Warehouse | Water Heating | Existing | building | 2,399 | 3.1% | 0.03 | 10 | \$415 | 54% | 0.1 |
| FE-WPP | Ultrasonic Faucet Control | Manual Faucet Control | Warehouse | Water Heating | New | building | 2,399 | 3.1% | 0.03 | 10 | \$415 | 54% | 0.1 |
| FE-WPP | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Warehouse | Water Heating | Existing | building | 2,399 | 2.2% | 0.02 | 4 | \$28 | 35% | 0.6 |
| FE-WPP | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Warehouse | Water Heating | New | building | 2,399 | 2.3% | 0.02 | 4 | \$28 | 35% | 0.6 |
| PECO | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Education | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.2 |
| PECO | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Education | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.2 |
| PECO | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Education | Cooking | Early | steamer | 43 | 48% | 0.00 | 12 | \$5,053 | 81% | 0.0 |
| PECO | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Education | Cooking | New | steamer | 34 | 34% | 0.00 | 12 | \$601 | 81% | 0.0 |
| PECO | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Education | Cooking | ROB | steamer | 34 | 34% | 0.00 | 12 | \$601 | 81% | 0.0 |
| PECO | Electric combination oven (Energy Star) | Standard Oven | Education | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 3.3 |
| PECO | Electric combination oven (Energy Star) | Standard Oven | Education | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 3.3 |
| PECO | Electric Convection Oven | Conventional convection oven w/ 65% efficiency | Education | Cooking | Early | oven | 6,481 | 37% | 0.5 | 12 | \$4,119 | 81% | 0.4 |
| PECO | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Education | Cooking | New | oven | 5,186 | 22% | 0.2 | 12 | \$1,113 | 81% | 0.7 |
| PECO | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Education | Cooking | ROB | oven | 5,186 | 22% | 0.2 | 12 | \$1,113 | 81% | 0.7 |
| PECO | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Education | Cooking | Early | fryer | 4,591 | 24% | 0.2 | 12 | \$9,241 | 86% | 0.1 |
| PECO | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Education | Cooking | New | fryer | 4,591 | 24% | 0.2 | 12 | \$2,366 | 86% | 0.3 |
| PECO | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Education | Cooking | ROB | fryer | 4,591 | 24% | 0.2 | 12 | \$2,366 | 86% | 0.3 |
| PECO | High Efficiency Griddle (ENERGY STAR) | Efficiency code minimum griddle (70% eff) | Education | Cooking | Early | griddle | 8,725 | 67% | 1.1 | 12 | \$4,977 | 86% | 0.8 |
| PECO | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Education | Cooking | New | griddle | 5,556 | 48% | 0.5 | 12 | \$1,700 | 86% | 1.0 |
| PECO | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Education | Cooking | ROB | griddle | 5,556 | 48% | 0.5 | 12 | \$1,700 | 86% | 1.0 |
| PECO | High Efficiency Induction Cooking | Standard Cooking | Education | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.2 |
| PECO | High Efficiency Induction Cooking | Standard Cooking | Education | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.2 |
| PECO | Adding reflective roof treatment | Std color roof | Education | Cooling Central | Existing | building | 10,863 | 7.0% | 0.07 | 6 | \$22,090 | 82% | 0.0 |
| PECO | Adding reflective roof treatment | Std color roof | Education | Cooling Central | New | building | 10,863 | 7.0% | 0.07 | 6 | \$22,090 | 82% | 0.0 |
| PECO | Adding window shade film | No shade film | Education | Cooling Central | Existing | building | 10,863 | 1.3% | 0.4 | 10 | \$132 | 12% | 2.6 |
| PECO | Adding window shade film | No shade film | Education | Cooling Central | New | building | 10,863 | 1.3% | 0.4 | 10 | \$132 | 13% | 2.6 |
| PECO | Adding window shade screen | No shade screen | Education | Cooling Central | Existing | building | 10,863 | 1.0% | 0.01 | 10 | \$51 | 13% | 1.1 |
| PECO | Adding window shade screen | No shade screen | Education | Cooling Central | New | building | 10,863 | 1.1% | 0.01 | 10 | \$51 | 13% | 1.1 |
| PECO | Automated control system | Manual Controls | Education | Cooling Central | Existing | building | 10,863 | 17% | 0.2 | 15 | \$11,893 | 51% | 0.1 |
| PECO | Automated control system | Manual Controls | Education | Cooling Central | New | building | 10,863 | 17% | 0.2 | 15 | \$11,893 | 94% | 0.1 |
| PECO | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Education | Cooling Central | Existing | building | 10,863 | 1.6% | 0.02 | 15 | \$26,439 | 71% | 0.0 |
| PECO | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Education | Cooling Central | New | building | 10,863 | 0.5% | 0.01 | 15 | \$25,131 | 94% | 0.0 |
| PECO | Chiller Tuneup/Diagnostics | No tuneup | Education | Cooling Central | Existing | building | 10,863 | 8.0% | 0.08 | 10 | \$27,739 | 59% | 0.0 |
| PECO | Chiller Tuneup/Diagnostics | No tuneup | Education | Cooling Central | New | building | 10,863 | 8.0% | 0.08 | 10 | \$27,739 | 59% | 0.0 |
| PECO | Commercial energy recovery ventilation systems | No Commercial Recovery System | Education | Cooling Central | Existing | building | 10,863 | 16% | 0.2 | 14 | \$9,816 | 71% | 0.1 |
| PECO | Cooling Tower Optimization | No Cooling Tower Optimization | Education | Cooling Central | Existing | building | 10,863 | 20% | 0.2 | 10 | \$67 | 69% | 15.4 |
| PECO | Duct Insulation, Add R8 | No Insulation | Education | Cooling Central | Existing | building | 10,863 | 1.4% | 0.04 | 15 | \$86 | 20% | 1.5 |
| PECO | Duct Insulation, Add R8 | No Insulation | Education | Cooling Central | New | building | 10,863 | 1.4% | 0.04 | 15 | \$86 | 10% | 1.5 |
| PECO | Facility Commissioning | No Facility Commissioning | Education | Cooling Central | New | building | 10,863 | 16% | 0.2 | 10 | \$5,998 | 89% | 0.1 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Education | Cooling Central | Existing | building | 10,863 | 7.0% | 0.07 | 15 | \$48,187 | 25% | 0.0 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Education | Cooling Central | New | building | 10,863 | 7.0% | 0.07 | 15 | \$48,187 | 35% | 0.0 |
| PECO | Hi Eff HVAC System Design | No HVAC Design | Education | Cooling Central | New | building | 10,863 | 14% | 0.1 | 10 | \$89,023 | 51% | 0.0 |
| PECO | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Education | Cooling Central | Early | ton | 6,289 | 24% | 0.3 | 15 | \$108,550 | 88% | 0.0 |
| PECO | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Education | Cooling Central | New | ton | 5,141 | 6.7% | 0.08 | 15 | \$12,927 | 88% | 0.0 |
| PECO | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Education | Cooling Central | ROB | ton | 5,141 | 6.7% | 0.08 | 15 | \$12,927 | 88% | 0.0 |
| PECO | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Education | Cooling Central | Early | ton | 9,398 | 23% | 0.5 | 15 | \$140,105 | 88% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|--|--|-----------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Education | Cooling Central | New | ton | 7,561 | 4.9% | 0.08 | 15 | \$9,336 | 88% | 0.0 |
| PECO | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Education | Cooling Central | ROB | ton | 7,561 | 4.9% | 0.08 | 15 | \$9,336 | 88% | 0.0 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Education | Cooling Central | Early | ton | 76,932 | 26% | 4.5 | 15 | \$105,354 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Education | Cooling Central | New | ton | 67,030 | 15% | 2.3 | 15 | \$30,530 | 88% | 0.3 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Education | Cooling Central | ROB | ton | 67,030 | 15% | 2.3 | 15 | \$30,530 | 88% | 0.3 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Education | Cooling Central | Early | ton | 115,224 | 23% | 5.9 | 15 | \$154,107 | 88% | 0.1 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Education | Cooling Central | New | ton | 105,847 | 16% | 3.8 | 15 | \$27,646 | 88% | 0.5 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Education | Cooling Central | ROB | ton | 105,847 | 16% | 3.8 | 15 | \$27,646 | 88% | 0.5 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Education | Cooling Central | Early | ton | 191,365 | 23% | 9.7 | 15 | \$302,924 | 88% | 0.1 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Education | Cooling Central | New | ton | 173,199 | 14% | 5.6 | 15 | \$115,432 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Education | Cooling Central | ROB | ton | 173,199 | 14% | 5.6 | 15 | \$115,432 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Education | Cooling Central | Early | ton | 229,638 | 23% | 11.7 | 15 | \$350,154 | 88% | 0.1 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Education | Cooling Central | New | ton | 207,838 | 14% | 6.8 | 15 | \$120,406 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Education | Cooling Central | ROB | ton | 207,838 | 14% | 6.8 | 15 | \$120,406 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Education | Cooling Central | Early | ton | 50,901 | 29% | 3.4 | 15 | \$83,632 | 88% | 0.1 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Education | Cooling Central | New | ton | 39,524 | 8.9% | 0.8 | 15 | \$40,211 | 88% | 0.1 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Education | Cooling Central | ROB | ton | 39,524 | 8.9% | 0.8 | 15 | \$40,211 | 88% | 0.1 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Education | Cooling Central | Early | ton | 87,461 | 35% | 6.9 | 15 | \$132,173 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Education | Cooling Central | New | ton | 65,231 | 13% | 1.8 | 15 | \$39,556 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Education | Cooling Central | ROB | ton | 65,231 | 13% | 1.8 | 15 | \$39,556 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Education | Cooling Central | Early | ton | 146,023 | 39% | 12.9 | 15 | \$187,029 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Education | Cooling Central | New | ton | 104,112 | 15% | 3.4 | 15 | \$33,554 | 88% | 0.4 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Education | Cooling Central | ROB | ton | 104,112 | 15% | 3.4 | 15 | \$33,554 | 88% | 0.4 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Education | Cooling Central | Early | ton | 25,552 | 30% | 1.7 | 15 | \$32,398 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Education | Cooling Central | New | ton | 20,244 | 11% | 0.5 | 15 | \$7,188 | 88% | 0.3 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Education | Cooling Central | ROB | ton | 20,244 | 11% | 0.5 | 15 | \$7,188 | 88% | 0.3 |
| PECO | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Education | Cooling Central | Existing | building | 10,863 | 3.5% | 0.04 | 10 | \$1,851 | 81% | 0.1 |
| PECO | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Education | Cooling Central | New | building | 10,863 | 3.5% | 0.04 | 10 | \$1,851 | 81% | 0.1 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Education | Cooling Central | Existing | building | 10,863 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.4 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Education | Cooling Central | New | building | 10,863 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.7 |
| PECO | Re-Commissioning (Existing Construction) | No Re-Commissioning | Education | Cooling Central | Existing | building | 10,863 | 16% | 0.2 | 5 | \$9,680 | 86% | 0.0 |
| PECO | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Education | Cooling Central | Existing | building | 10,863 | 3.6% | 0.04 | 15 | \$6,377 | 26% | 0.0 |
| PECO | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Education | Cooling Central | New | building | 10,863 | 0.1% | 0.00 | 15 | \$4,891 | 94% | 0.0 |
| PECO | <65k BTU/hr 14 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Education | Cooling Unitary | Early | ton | 925 | 16% | 0.2 | 15 | \$1,545 | 29% | 0.2 |
| PECO | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Education | Cooling Unitary | New | ton | 837 | 7.1% | 0.06 | 15 | \$339 | 29% | 0.3 |
| PECO | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Education | Cooling Unitary | ROB | ton | 837 | 7.1% | 0.06 | 15 | \$339 | 29% | 0.3 |
| PECO | <65k BTU/hr 15 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Education | Cooling Unitary | Early | ton | 925 | 22% | 0.2 | 15 | \$1,821 | 30% | 0.2 |
| PECO | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Education | Cooling Unitary | New | ton | 837 | 13% | 0.1 | 15 | \$714 | 30% | 0.3 |
| PECO | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Education | Cooling Unitary | ROB | ton | 837 | 13% | 0.1 | 15 | \$714 | 30% | 0.3 |
| PECO | <65k BTU/hr 16 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Education | Cooling Unitary | Early | ton | 925 | 26% | 0.3 | 15 | \$2,098 | 31% | 0.2 |
| PECO | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Education | Cooling Unitary | New | ton | 837 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.2 |
| PECO | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Education | Cooling Unitary | ROB | ton | 837 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.2 |
| PECO | >760k min 10.2 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Education | Cooling Unitary | Early | ton | 23,393 | 3.7% | 0.9 | 15 | \$68,066 | 56% | 0.0 |
| PECO | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Education | Cooling Unitary | New | ton | 23,693 | 4.9% | 1.2 | 15 | \$6,231 | 56% | 0.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---|--|-----------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Education | Cooling Unitary | ROB | ton | 23,693 | 4.9% | 1.2 | 15 | \$6,231 | 56% | 0.3 |
| PECO | 135-240k min 12 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Education | Cooling Unitary | Early | ton | 5,756 | 18% | 1.1 | 15 | \$18,135 | 79% | 0.1 |
| PECO | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Education | Cooling Unitary | New | ton | 5,236 | 10.0% | 0.5 | 15 | \$1,948 | 79% | 0.4 |
| PECO | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Education | Cooling Unitary | ROB | ton | 5,236 | 10.0% | 0.5 | 15 | \$1,948 | 79% | 0.4 |
| PECO | 240k-760k min 11 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Education | Cooling Unitary | Early | ton | 15,390 | 9.0% | 1.5 | 15 | \$44,809 | 66% | 0.1 |
| PECO | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Education | Cooling Unitary | New | ton | 15,429 | 9.3% | 1.5 | 15 | \$4,813 | 66% | 0.5 |
| PECO | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Education | Cooling Unitary | ROB | ton | 15,429 | 9.3% | 1.5 | 15 | \$4,813 | 66% | 0.5 |
| PECO | 65k-135k BTU/hr 12 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Education | Cooling Unitary | Early | ton | 3,393 | 17% | 0.6 | 15 | \$10,946 | 86% | 0.1 |
| PECO | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Education | Cooling Unitary | New | ton | 3,024 | 6.7% | 0.2 | 15 | \$1,392 | 86% | 0.2 |
| PECO | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Education | Cooling Unitary | ROB | ton | 3,024 | 6.7% | 0.2 | 15 | \$1,392 | 86% | 0.2 |
| PECO | Adding reflective roof treatment | Std color roof | Education | Cooling Unitary | Existing | building | 161,260 | 7.1% | 0.07 | 6 | \$22,090 | 82% | 0.1 |
| PECO | Adding reflective roof treatment | Std color roof | Education | Cooling Unitary | New | building | 161,260 | 7.0% | 0.07 | 6 | \$22,090 | 82% | 0.1 |
| PECO | Adding window shade film | No shade film | Education | Cooling Unitary | Existing | building | 161,260 | 1.3% | 0.4 | 10 | \$1,962 | 12% | 0.6 |
| PECO | Adding window shade film | No shade film | Education | Cooling Unitary | New | building | 161,260 | 1.3% | 0.4 | 10 | \$1,962 | 13% | 0.6 |
| PECO | Adding window shade screen | No shade screen | Education | Cooling Unitary | Existing | building | 161,260 | 1.1% | 0.01 | 10 | \$759 | 12% | 1.0 |
| PECO | Adding window shade screen | No shade screen | Education | Cooling Unitary | New | building | 161,260 | 1.1% | 0.01 | 10 | \$759 | 13% | 1.0 |
| PECO | Automated control system | Manual Controls | Education | Cooling Unitary | Existing | building | 161,260 | 17% | 0.2 | 15 | \$176,541 | 51% | 0.1 |
| PECO | Automated control system | Manual Controls | Education | Cooling Unitary | New | building | 161,260 | 17% | 0.2 | 15 | \$176,541 | 94% | 0.1 |
| PECO | Ceiling Insulations (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Education | Cooling Unitary | Existing | building | 161,260 | 1.6% | 0.02 | 15 | \$26,439 | 71% | 0.1 |
| PECO | Ceiling Insulations (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Education | Cooling Unitary | New | building | 161,260 | 0.5% | 0.01 | 15 | \$25,131 | 94% | 0.0 |
| PECO | Commercial energy recovery ventilation systems | No Commercial Recovery System | Education | Cooling Unitary | Existing | building | 161,260 | 16% | 0.2 | 14 | \$145,722 | 71% | 0.1 |
| PECO | Duct Insulation, Add R8 | No Insulation | Education | Cooling Unitary | Existing | building | 161,260 | 1.4% | 0.04 | 15 | \$1,281 | 20% | 1.0 |
| PECO | Duct Insulation, Add R8 | No Insulation | Education | Cooling Unitary | New | building | 161,260 | 1.4% | 0.04 | 15 | \$1,281 | 10% | 1.0 |
| PECO | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Education | Cooling Unitary | Existing | building | 88,125 | 13% | 0.1 | 1 | \$845 | 73% | 0.6 |
| PECO | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Education | Cooling Unitary | New | building | 88,125 | 13% | 0.1 | 1 | \$845 | 73% | 0.7 |
| PECO | ECM Motors for split systems | Std Shaded Pole Motor | Education | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 3.2 |
| PECO | ECM Motors for split systems | Std Shaded Pole Motor | Education | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 3.2 |
| PECO | Facility Commissioning | No Facility Commissioning | Education | Cooling Unitary | New | building | 161,260 | 16% | 0.2 | 10 | \$2,618 | 89% | 4.1 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Education | Cooling Unitary | Existing | building | 161,260 | 7.1% | 0.07 | 15 | \$715,312 | 25% | 0.0 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Education | Cooling Unitary | New | building | 161,260 | 7.1% | 0.07 | 15 | \$715,312 | 35% | 0.0 |
| PECO | Hi Eff HVAC System Design | No HVAC Design | Education | Cooling Unitary | New | building | 161,260 | 14% | 0.1 | 10 | \$11,250 | 51% | 0.8 |
| PECO | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Education | Cooling Unitary | Existing | building | 161,260 | 5.0% | 0.05 | 5 | \$225 | 59% | 7.9 |
| PECO | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Education | Cooling Unitary | Existing | building | 161,260 | 3.5% | 0.04 | 10 | \$1,989 | 86% | 1.2 |
| PECO | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Education | Cooling Unitary | New | building | 161,260 | 3.5% | 0.04 | 10 | \$1,989 | 86% | 1.2 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) | Education | Cooling Unitary | Existing | building | 161,260 | 2.0% | 0.02 | 11 | \$286 | 49% | 5.2 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Education | Cooling Unitary | New | building | 161,260 | 1.7% | 0.02 | 11 | \$146 | 49% | 8.6 |
| PECO | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Education | Cooling Unitary | Early | unit | 518 | 19% | 0.02 | 15 | \$849 | 85% | 0.1 |
| PECO | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Education | Cooling Unitary | New | unit | 523 | 20% | 0.02 | 15 | \$356 | 85% | 0.2 |
| PECO | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Education | Cooling Unitary | ROB | unit | 523 | 20% | 0.02 | 15 | \$356 | 85% | 0.2 |
| PECO | Re-Commissioning (Existing Construction) | No Re-Commissioning | Education | Cooling Unitary | Existing | building | 161,260 | 16% | 0.2 | 5 | \$9,680 | 86% | 0.6 |
| PECO | Room AC (w/ louvered sides) | Existing efficiency Room AC in Pennsylvania (2000 Federal Standards) | Education | Cooling Unitary | Early | ton | 723 | 13% | 0.02 | 9 | \$348 | 82% | 0.2 |
| PECO | Room AC (w/ louvered sides) | Std Room AC (Code Min. Federal Standards) | Education | Cooling Unitary | New | ton | 655 | 4.5% | 0.01 | 9 | \$17 | 82% | 0.9 |
| PECO | Room AC (w/ louvered sides) | Std Room AC (Code Min. Federal Standards) | Education | Cooling Unitary | ROB | ton | 655 | 4.5% | 0.01 | 9 | \$17 | 82% | 0.9 |
| PECO | Wall Insulations (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Education | Cooling Unitary | Existing | building | 161,260 | 3.6% | 0.04 | 15 | \$6,377 | 26% | 0.5 |
| PECO | Wall Insulations (Going upto R 21) | Code minimum Wall Insulations | Education | Cooling Unitary | New | building | 161,260 | 0.1% | 0.00 | 15 | \$4,891 | 94% | 0.0 |
| PECO | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Education | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 1.1 |
| PECO | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Education | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.4 |
| PECO | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Education | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.4 |
| PECO | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Education | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 0% | 0.2 |
| PECO | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Education | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| PECO | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Education | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| PECO | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Education | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 75% | 0.3 |
| PECO | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Education | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 75% | 0.2 |
| PECO | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Education | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.6 |
| PECO | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Education | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.0 |
| PECO | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Education | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.6 |
| PECO | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Education | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.0 |
| PECO | Photocell Controls (Outdoor) | Lighting w/ No Controls | Education | Ext. Lighting | Existing | building | 324 | 28% | 0.3 | 8 | \$15,932 | 88% | 0.0 |
| PECO | Photocell Controls (Outdoor) | Lighting w/ No Controls | Education | Ext. Lighting | New | building | 324 | 28% | 0.3 | 8 | \$15,932 | 0% | 0.0 |
| PECO | Adding reflective roof treatment | Std color roof | Education | Heat Pump | Existing | building | 16,752 | 6.9% | 0.07 | 6 | \$22,090 | 82% | 0.0 |
| PECO | Adding reflective roof treatment | Std color roof | Education | Heat Pump | New | building | 16,752 | 6.9% | 0.07 | 6 | \$22,090 | 82% | 0.0 |
| PECO | Adding window shade film | No shade film | Education | Heat Pump | Existing | building | 16,752 | 3.9% | 0.4 | 10 | \$204 | 12% | 2.8 |
| PECO | Adding window shade film | No shade film | Education | Heat Pump | New | building | 16,752 | 3.9% | 0.4 | 10 | \$204 | 12% | 2.8 |
| PECO | Adding window shade screen | No shade screen | Education | Heat Pump | Existing | building | 16,752 | 0.3% | 0.01 | 10 | \$26 | 12% | 1.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|--|---|-----------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Adding window shade screen | No shade screen | Education | Heat Pump | New | building | 16,752 | 0.3% | 0.01 | 10 | \$26 | 12% | 1.2 |
| PECO | Automated control system | Manual Controls | Education | Heat Pump | Existing | building | 16,752 | 17% | 0.2 | 15 | \$18,340 | 51% | 0.1 |
| PECO | Automated control system | Manual Controls | Education | Heat Pump | New | building | 16,752 | 17% | 0.2 | 15 | \$18,340 | 94% | 0.1 |
| PECO | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Education | Heat Pump | Existing | building | 16,752 | 1.6% | 0.02 | 15 | \$26,439 | 71% | 0.0 |
| PECO | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Education | Heat Pump | New | building | 16,752 | 0.5% | 0.01 | 15 | \$25,131 | 94% | 0.0 |
| PECO | Commercial energy recovery ventilation systems | No Commercial Recovery System | Education | Heat Pump | Existing | building | 16,752 | 16% | 0.2 | 14 | \$704,310 | 71% | 0.0 |
| PECO | Duct Insulation, Add R8 | No Insulation | Education | Heat Pump | Existing | building | 16,752 | 4.0% | 0.04 | 15 | \$133 | 12% | 3.2 |
| PECO | Duct Insulation, Add R8 | No Insulation | Education | Heat Pump | New | building | 16,752 | 4.0% | 0.04 | 15 | \$133 | 6% | 3.2 |
| PECO | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Education | Heat Pump | Early | heat pump | 1,355 | 12% | 0.04 | 15 | \$4,070 | 83% | 0.0 |
| PECO | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Education | Heat Pump | New | heat pump | 1,290 | 7.8% | 0.02 | 15 | \$1,097 | 83% | 0.1 |
| PECO | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Education | Heat Pump | ROB | heat pump | 1,290 | 7.8% | 0.02 | 15 | \$1,097 | 83% | 0.1 |
| PECO | Facility Commissioning | No Facility Commissioning | Education | Heat Pump | New | building | 16,752 | 16% | 0.2 | 10 | \$5,998 | 89% | 0.2 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Education | Heat Pump | Existing | building | 16,752 | 7.0% | 0.07 | 15 | \$74,310 | 25% | 0.0 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Education | Heat Pump | New | building | 16,752 | 7.0% | 0.07 | 15 | \$74,310 | 35% | 0.0 |
| PECO | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Education | Heat Pump | Early | heat pump | 13,993 | 16% | 0.5 | 15 | \$91,117 | 19% | 0.0 |
| PECO | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Education | Heat Pump | New | heat pump | 13,471 | 13% | 0.4 | 15 | \$33,927 | 19% | 0.0 |
| PECO | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Education | Heat Pump | ROB | heat pump | 13,471 | 13% | 0.4 | 15 | \$33,927 | 19% | 0.0 |
| PECO | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Education | Heat Pump | Early | heat pump | 13,993 | 16% | 0.5 | 15 | \$58,356 | 19% | 0.0 |
| PECO | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Education | Heat Pump | New | heat pump | 13,471 | 13% | 0.4 | 15 | \$1,167 | 19% | 1.2 |
| PECO | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Education | Heat Pump | ROB | heat pump | 13,471 | 13% | 0.4 | 15 | \$1,167 | 19% | 1.2 |
| PECO | Hi Eff HVAC System Design | No HVAC Design | Education | Heat Pump | New | building | 16,752 | 14% | 0.1 | 10 | \$89,023 | 51% | 0.0 |
| PECO | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Education | Heat Pump | Early | heat pump | 3,613 | 17% | 0.1 | 12 | \$4,298 | 81% | 0.1 |
| PECO | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Education | Heat Pump | Early | heat pump | 3,613 | 25% | 0.2 | 12 | \$5,883 | 81% | 0.1 |
| PECO | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Education | Heat Pump | New | heat pump | 3,441 | 12% | 0.10 | 12 | \$852 | 81% | 0.3 |
| PECO | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Education | Heat Pump | New | heat pump | 3,441 | 22% | 0.2 | 12 | \$2,437 | 81% | 0.2 |
| PECO | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Education | Heat Pump | ROB | heat pump | 3,441 | 12% | 0.10 | 12 | \$852 | 81% | 0.3 |
| PECO | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Education | Heat Pump | ROB | heat pump | 3,441 | 22% | 0.2 | 12 | \$2,437 | 81% | 0.2 |
| PECO | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Education | Heat Pump | Existing | building | 16,752 | 3.5% | 0.04 | 10 | \$1,771 | 81% | 0.2 |
| PECO | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Education | Heat Pump | New | building | 16,752 | 3.5% | 0.04 | 10 | \$1,771 | 81% | 0.2 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Education | Heat Pump | Existing | building | 16,752 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.7 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Education | Heat Pump | New | building | 16,752 | 2.1% | 0.02 | 11 | \$146 | 49% | 1.2 |
| PECO | Re-Commissioning (Existing Construction) | No Re-Commissioning | Education | Heat Pump | Existing | building | 16,752 | 16% | 0.2 | 5 | \$9,680 | 86% | 0.1 |
| PECO | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Education | Heat Pump | New | measure | 1,891,834 | 2.0% | 4.3 | 13 | \$238,160 | 43% | 0.1 |
| PECO | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Education | Heat Pump | ROB | measure | 1,891,834 | 2.0% | 4.3 | 13 | \$238,160 | 43% | 0.1 |
| PECO | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Education | Heat Pump | Existing | building | 16,752 | 3.6% | 0.04 | 15 | \$6,377 | 26% | 0.1 |
| PECO | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Education | Heat Pump | New | building | 16,752 | 0.1% | 0.00 | 15 | \$4,891 | 94% | 0.0 |
| PECO | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Education | Heat Pump | Early | heat pump | 5,780 | 34% | 0.4 | 15 | \$35,347 | 28% | 0.0 |
| PECO | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Education | Heat Pump | New | heat pump | 5,484 | 31% | 0.4 | 15 | \$15,739 | 28% | 0.1 |
| PECO | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Education | Heat Pump | ROB | heat pump | 5,484 | 31% | 0.4 | 15 | \$15,739 | 28% | 0.1 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Education | High Bay Lighting | Early | Fixture | 499 | 9.6% | 0.01 | 13 | \$850 | 39% | 0.0 |
| PECO | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Education | High Bay Lighting | Early | Fixture | 499 | 9.5% | 0.01 | 13 | \$850 | 28% | 0.0 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Education | High Bay Lighting | Early | Fixture | 770 | 41% | 0.07 | 13 | \$850 | 36% | 0.3 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Education | High Bay Lighting | New | Fixture | 379 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Education | High Bay Lighting | New | Fixture | 353 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Education | High Bay Lighting | New | Fixture | 585 | 41% | 0.05 | 13 | \$397 | 36% | 0.4 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Education | High Bay Lighting | ROB | Fixture | 499 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Education | High Bay Lighting | ROB | Fixture | 465 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Education | High Bay Lighting | ROB | Fixture | 770 | 41% | 0.07 | 13 | \$397 | 28% | 0.6 |
| PECO | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Education | High Bay Lighting | Early | Fixture | 969 | 19% | 0.04 | 13 | \$851 | 38% | 0.2 |
| PECO | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Education | High Bay Lighting | Early | Fixture | 981 | 20% | 0.04 | 13 | \$851 | 38% | 0.2 |
| PECO | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | Early | Fixture | 2,855 | 73% | 0.5 | 13 | \$851 | 38% | 1.7 |
| PECO | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Education | High Bay Lighting | New | Fixture | 737 | 19% | 0.03 | 13 | \$372 | 38% | 0.3 |
| PECO | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | New | Fixture | 2,170 | 73% | 0.4 | 13 | \$383 | 38% | 3.0 |
| PECO | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Education | High Bay Lighting | ROB | Fixture | 969 | 19% | 0.04 | 13 | \$372 | 38% | 0.4 |
| PECO | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | ROB | Fixture | 2,855 | 73% | 0.5 | 13 | \$383 | 38% | 3.9 |
| PECO | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Education | High Bay Lighting | Early | Fixture | 969 | 25% | 0.05 | 13 | \$554 | 29% | 0.3 |
| PECO | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Education | High Bay Lighting | Early | Fixture | 951 | 23% | 0.05 | 13 | \$554 | 28% | 0.3 |
| PECO | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | Early | Fixture | 2,855 | 74% | 0.5 | 13 | \$554 | 36% | 2.8 |
| PECO | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Education | High Bay Lighting | New | Fixture | 737 | 25% | 0.04 | 13 | \$75 | 29% | 1.7 |
| PECO | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | New | Fixture | 2,170 | 74% | 0.4 | 13 | \$86 | 36% | 13.5 |
| PECO | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Education | High Bay Lighting | ROB | Fixture | 969 | 25% | 0.05 | 13 | \$75 | 29% | 2.3 |
| PECO | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | ROB | Fixture | 2,855 | 74% | 0.5 | 13 | \$86 | 36% | 17.8 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---|---|-----------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Education | High Bay Lighting | Early | Fixture | 253 | 0.2% | 0.00 | 13 | \$835 | 38% | 0.0 |
| PECO | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Education | High Bay Lighting | Early | Fixture | 544 | 54% | 0.07 | 13 | \$835 | 38% | 0.3 |
| PECO | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Education | High Bay Lighting | New | Fixture | 414 | 54% | 0.05 | 13 | \$382 | 38% | 0.4 |
| PECO | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Education | High Bay Lighting | ROB | Fixture | 544 | 54% | 0.07 | 13 | \$382 | 38% | 0.5 |
| PECO | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Education | High Bay Lighting | Early | Fixture | 1,235 | 18% | 0.05 | 13 | \$487 | 25% | 0.3 |
| PECO | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Education | High Bay Lighting | Early | Fixture | 1,291 | 22% | 0.06 | 13 | \$487 | 28% | 0.4 |
| PECO | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | Early | Fixture | 2,855 | 65% | 0.4 | 13 | \$487 | 36% | 2.7 |
| PECO | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Education | High Bay Lighting | New | Fixture | 938 | 18% | 0.04 | 13 | \$16 | 25% | 7.6 |
| PECO | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | New | Fixture | 2,170 | 65% | 0.3 | 13 | \$18 | 36% | 54.8 |
| PECO | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Education | High Bay Lighting | ROB | Fixture | 1,235 | 18% | 0.05 | 13 | \$16 | 25% | 10.0 |
| PECO | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | ROB | Fixture | 2,855 | 65% | 0.4 | 13 | \$18 | 36% | 72.1 |
| PECO | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Education | High Bay Lighting | Early | Fixture | 1,235 | 1.5% | 0.00 | 13 | \$557 | 19% | 0.0 |
| PECO | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Education | High Bay Lighting | Early | Fixture | 1,271 | 4.3% | 0.01 | 13 | \$557 | 19% | 0.1 |
| PECO | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | Early | Fixture | 2,855 | 57% | 0.4 | 13 | \$557 | 19% | 2.1 |
| PECO | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Education | High Bay Lighting | New | Fixture | 938 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| PECO | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | New | Fixture | 2,170 | 57% | 0.3 | 13 | \$88 | 19% | 10.1 |
| PECO | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Education | High Bay Lighting | ROB | Fixture | 1,235 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.2 |
| PECO | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | ROB | Fixture | 2,855 | 57% | 0.4 | 13 | \$88 | 19% | 13.3 |
| PECO | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Education | High Bay Lighting | Early | Fixture | 524 | 29% | 0.02 | 13 | \$492 | 71% | 0.2 |
| PECO | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Education | High Bay Lighting | Early | Fixture | 438 | 15% | 0.01 | 13 | \$492 | 95% | 0.1 |
| PECO | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Education | High Bay Lighting | Early | Fixture | 651 | 43% | 0.04 | 13 | \$492 | 95% | 0.4 |
| PECO | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Education | High Bay Lighting | Early | Fixture | 604 | 38% | 0.04 | 13 | \$492 | 95% | 0.3 |
| PECO | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Education | High Bay Lighting | New | Fixture | 333 | 15% | 0.01 | 13 | \$25 | 95% | 1.3 |
| PECO | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Education | High Bay Lighting | New | Fixture | 495 | 43% | 0.03 | 13 | \$51 | 95% | 2.7 |
| PECO | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Education | High Bay Lighting | ROB | Fixture | 438 | 15% | 0.01 | 13 | \$25 | 95% | 1.7 |
| PECO | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Education | High Bay Lighting | ROB | Fixture | 651 | 43% | 0.04 | 13 | \$51 | 95% | 3.5 |
| PECO | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Education | High Bay Lighting | Early | lamp | 66 | 16% | 0.00 | 15 | \$7.7 | 99% | 1.2 |
| PECO | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Education | High Bay Lighting | New | lamp | 39 | 13% | 0.00 | 15 | \$1.6 | 91% | 2.6 |
| PECO | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Education | High Bay Lighting | ROB | lamp | 64 | 13% | 0.00 | 15 | \$1.6 | 91% | 4.1 |
| PECO | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Education | High Bay Lighting | Early | Fixture | 2,921 | 23% | 0.2 | 13 | \$613 | 5% | 0.8 |
| PECO | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Education | High Bay Lighting | Early | Fixture | 2,295 | 1.6% | 0.01 | 13 | \$613 | 28% | 0.0 |
| PECO | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Education | High Bay Lighting | Early | Fixture | 5,709 | 60% | 0.8 | 13 | \$613 | 18% | 4.0 |
| PECO | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Education | High Bay Lighting | New | Fixture | 2,220 | 23% | 0.1 | 13 | \$96 | 5% | 3.8 |
| PECO | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Education | High Bay Lighting | ROB | Fixture | 2,921 | 23% | 0.2 | 13 | \$96 | 5% | 5.0 |
| PECO | Auto Off Time Switch | Lighting w/ No Controls | Education | High Bay Lighting | Existing | building | 5,637 | 24% | 0.2 | 8 | \$3,237 | 13% | 0.2 |
| PECO | Auto Off Time Switch | Lighting w/ No Controls | Education | High Bay Lighting | New | building | 5,637 | 6.9% | 0.07 | 8 | \$3,237 | 0% | 0.1 |
| PECO | Central Lighting Control System | Lighting w/ No Controls | Education | High Bay Lighting | Existing | building | 5,637 | 38% | 0.4 | 8 | \$3,237 | 13% | 0.3 |
| PECO | Central Lighting Control System | Lighting w/ No Controls | Education | High Bay Lighting | New | building | 5,637 | 14% | 0.1 | 8 | \$3,237 | 13% | 0.1 |
| PECO | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Education | High Bay Lighting | New | building | 5,637 | 10% | 0.1 | 15 | \$35,171 | 32% | 0.0 |
| PECO | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Education | High Bay Lighting | New | building | 5,637 | 15% | 0.2 | 15 | \$87,927 | 32% | 0.0 |
| PECO | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Education | High Bay Lighting | New | building | 5,637 | 30% | 0.3 | 15 | \$126,028 | 32% | 0.0 |
| PECO | Indoor Daylight Sensors | Lighting w/ No Controls | Education | High Bay Lighting | Existing | building | 5,637 | 28% | 0.3 | 8 | \$15,932 | 13% | 0.0 |
| PECO | Indoor Daylight Sensors | Lighting w/ No Controls | Education | High Bay Lighting | New | building | 5,637 | 4.0% | 0.04 | 8 | \$15,932 | 0% | 0.0 |
| PECO | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Education | High Bay Lighting | Early | Fixture | 2,921 | 92% | 0.6 | 13 | \$1,916 | 95% | 1.0 |
| PECO | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | Early | Fixture | 5,709 | 96% | 1.2 | 13 | \$1,916 | 95% | 2.1 |
| PECO | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Education | High Bay Lighting | New | Fixture | 2,220 | 92% | 0.5 | 13 | \$1,468 | 95% | 1.0 |
| PECO | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | New | Fixture | 4,339 | 96% | 0.9 | 13 | \$1,149 | 95% | 2.6 |
| PECO | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Education | High Bay Lighting | ROB | Fixture | 2,921 | 92% | 0.6 | 13 | \$1,468 | 95% | 1.3 |
| PECO | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | ROB | Fixture | 5,709 | 96% | 1.2 | 13 | \$1,149 | 95% | 3.4 |
| PECO | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Education | High Bay Lighting | Early | Fixture | 969 | 67% | 0.1 | 13 | \$960 | 95% | 0.5 |
| PECO | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Education | High Bay Lighting | Early | Fixture | 2,855 | 89% | 0.6 | 13 | \$960 | 95% | 1.9 |
| PECO | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Education | High Bay Lighting | Early | Fixture | 783 | 59% | 0.1 | 13 | \$960 | 95% | 0.3 |
| PECO | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Education | High Bay Lighting | New | Fixture | 737 | 67% | 0.1 | 13 | \$480 | 95% | 0.7 |
| PECO | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Education | High Bay Lighting | New | Fixture | 2,170 | 89% | 0.4 | 13 | \$491 | 95% | 2.8 |
| PECO | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Education | High Bay Lighting | New | Fixture | 595 | 59% | 0.08 | 13 | \$406 | 95% | 0.6 |
| PECO | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Education | High Bay Lighting | ROB | Fixture | 969 | 67% | 0.1 | 13 | \$480 | 95% | 1.0 |
| PECO | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Education | High Bay Lighting | ROB | Fixture | 2,855 | 89% | 0.6 | 13 | \$491 | 95% | 3.7 |
| PECO | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Education | High Bay Lighting | ROB | Fixture | 783 | 59% | 0.1 | 13 | \$406 | 95% | 0.8 |
| PECO | Occupancy Sensor | Lighting w/ No Controls | Education | High Bay Lighting | Existing | building | 5,637 | 24% | 0.2 | 8 | \$4,877 | 11% | 0.1 |
| PECO | Occupancy Sensor | Lighting w/ No Controls | Education | High Bay Lighting | New | building | 5,637 | 6.9% | 0.07 | 8 | \$4,877 | 0% | 0.0 |
| PECO | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Education | High Bay Lighting | Existing | building | 5,637 | 28% | 0.3 | 8 | \$15,932 | 11% | 0.0 |
| PECO | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Education | High Bay Lighting | New | building | 5,637 | 4.0% | 0.04 | 8 | \$15,932 | 0% | 0.0 |
| PECO | Time Clock Control | Lighting w/ No Controls | Education | High Bay Lighting | Existing | building | 5,637 | 28% | 0.3 | 8 | \$3,237 | 13% | 0.2 |
| PECO | Time Clock Control | Lighting w/ No Controls | Education | High Bay Lighting | New | building | 5,637 | 4.0% | 0.04 | 8 | \$3,237 | 0% | 0.0 |
| PECO | Auto Off Time Switch | Lighting w/ No Controls | Education | Lin. Fluor. Lighting | Existing | building | 61,103 | 24% | 0.2 | 8 | \$3,237 | 13% | 1.6 |
| PECO | Auto Off Time Switch | Lighting w/ No Controls | Education | Lin. Fluor. Lighting | New | building | 61,103 | 7.0% | 0.07 | 8 | \$3,237 | 0% | 0.5 |
| PECO | Central Lighting Control System | Lighting w/ No Controls | Education | Lin. Fluor. Lighting | Existing | building | 61,103 | 38% | 0.4 | 8 | \$3,237 | 12% | 2.5 |
| PECO | Central Lighting Control System | Lighting w/ No Controls | Education | Lin. Fluor. Lighting | New | building | 61,103 | 14% | 0.1 | 8 | \$3,237 | 12% | 0.9 |
| PECO | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Education | Lin. Fluor. Lighting | New | building | 61,103 | 10% | 0.1 | 15 | \$35,171 | 32% | 0.1 |
| PECO | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Education | Lin. Fluor. Lighting | New | building | 61,103 | 15% | 0.2 | 15 | \$87,927 | 32% | 0.1 |
| PECO | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Education | Lin. Fluor. Lighting | New | building | 61,103 | 30% | 0.3 | 15 | \$126,028 | 32% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|--|--|-----------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Education | Lin. Fluor. Lighting | Early | Lamp | 133 | 38% | 0.01 | 15 | \$7.3 | 94% | 5.5 |
| PECO | Indoor Daylight Sensors | Lighting w/ No Controls | Education | Lin. Fluor. Lighting | Existing | building | 61,103 | 28% | 0.3 | 8 | \$15,932 | 13% | 0.4 |
| PECO | Indoor Daylight Sensors | Lighting w/ No Controls | Education | Lin. Fluor. Lighting | New | building | 61,103 | 4.1% | 0.04 | 8 | \$15,932 | 0% | 0.1 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Education | Lin. Fluor. Lighting | Early | Lamp | 63 | 19% | 0.00 | 15 | \$35 | 94% | 0.3 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 40W T12 Lamp, Magnetic Ballast | Education | Lin. Fluor. Lighting | Early | Lamp | 137 | 63% | 0.02 | 15 | \$35 | 94% | 1.9 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Education | Lin. Fluor. Lighting | Early | Lamp | 77 | 34% | 0.01 | 15 | \$35 | 94% | 0.6 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Education | Lin. Fluor. Lighting | Early | Lamp | 75 | 32% | 0.00 | 15 | \$35 | 94% | 0.5 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Education | Lin. Fluor. Lighting | New | Lamp | 48 | 19% | 0.00 | 15 | \$28 | 94% | 0.3 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Education | Lin. Fluor. Lighting | New | Lamp | 57 | 32% | 0.00 | 15 | \$29 | 94% | 0.5 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Education | Lin. Fluor. Lighting | New | Lamp | 59 | 34% | 0.00 | 15 | \$22 | 94% | 0.7 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Education | Lin. Fluor. Lighting | New | Lamp | 57 | 32% | 0.00 | 15 | \$29 | 94% | 0.5 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Education | Lin. Fluor. Lighting | ROB | Lamp | 63 | 19% | 0.00 | 15 | \$28 | 94% | 0.3 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Education | Lin. Fluor. Lighting | ROB | Lamp | 75 | 32% | 0.00 | 15 | \$29 | 94% | 0.6 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Education | Lin. Fluor. Lighting | ROB | Lamp | 77 | 34% | 0.01 | 15 | \$22 | 94% | 1.0 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Education | Lin. Fluor. Lighting | ROB | Lamp | 75 | 32% | 0.00 | 15 | \$29 | 94% | 0.6 |
| PECO | Occupancy Sensor | Lighting w/ No Controls | Education | Lin. Fluor. Lighting | Existing | building | 61,103 | 24% | 0.2 | 8 | \$4,877 | 12% | 1.0 |
| PECO | Occupancy Sensor | Lighting w/ No Controls | Education | Lin. Fluor. Lighting | New | building | 61,103 | 7.0% | 0.07 | 8 | \$4,877 | 0% | 0.3 |
| PECO | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Education | Lin. Fluor. Lighting | Existing | building | 61,103 | 28% | 0.3 | 8 | \$15,932 | 11% | 0.4 |
| PECO | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Education | Lin. Fluor. Lighting | New | building | 61,103 | 4.1% | 0.04 | 8 | \$15,932 | 0% | 0.1 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 40W T12 w/ Magnetic Ballast | Education | Lin. Fluor. Lighting | Early | Lamp | 133 | 54% | 0.02 | 15 | \$9.1 | 94% | 6.3 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Education | Lin. Fluor. Lighting | Early | Lamp | 85 | 28% | 0.01 | 15 | \$9.1 | 24% | 2.1 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Education | Lin. Fluor. Lighting | Early | Lamp | 83 | 26% | 0.00 | 15 | \$9.1 | 94% | 1.9 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Education | Lin. Fluor. Lighting | New | Lamp | 63 | 26% | 0.00 | 15 | \$2.5 | 94% | 5.1 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Education | Lin. Fluor. Lighting | New | Lamp | 63 | 26% | 0.00 | 15 | \$2.5 | 94% | 5.1 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Education | Lin. Fluor. Lighting | New | Lamp | 65 | 28% | 0.00 | 15 | \$2.5 | 24% | 5.8 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Education | Lin. Fluor. Lighting | New | Lamp | 63 | 26% | 0.00 | 15 | \$2.5 | 94% | 5.1 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Education | Lin. Fluor. Lighting | ROB | Lamp | 83 | 26% | 0.00 | 15 | \$2.5 | 94% | 6.7 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Education | Lin. Fluor. Lighting | ROB | Lamp | 83 | 26% | 0.00 | 15 | \$2.5 | 94% | 6.7 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Education | Lin. Fluor. Lighting | ROB | Lamp | 85 | 28% | 0.01 | 15 | \$2.5 | 24% | 7.6 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Education | Lin. Fluor. Lighting | ROB | Lamp | 83 | 26% | 0.00 | 15 | \$2.5 | 94% | 6.7 |
| PECO | T8 Lamp (any length) Electronic Ballast | Standard T12 lamp (any length) | Education | Lin. Fluor. Lighting | Early | Lamp | 157 | 42% | 0.01 | 15 | \$14 | 94% | 3.8 |
| PECO | Time Clock Control | Lighting w/ No Controls | Education | Lin. Fluor. Lighting | Existing | building | 61,103 | 28% | 0.3 | 8 | \$3,237 | 14% | 1.8 |
| PECO | Time Clock Control | Lighting w/ No Controls | Education | Lin. Fluor. Lighting | New | building | 61,103 | 4.1% | 0.04 | 8 | \$3,237 | 0% | 0.3 |
| PECO | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Education | Motors | Early | motor | 2,942 | 3.6% | 0.01 | 15 | \$374 | 76% | 0.2 |
| PECO | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Education | Motors | Early | motor | 2,942 | 3.6% | 0.01 | 15 | \$374 | 76% | 0.2 |
| PECO | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Education | Motors | Early | motor | 2,942 | 3.6% | 0.01 | 15 | \$374 | 76% | 0.2 |
| PECO | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Education | Motors | Early | motor | 2,942 | 3.6% | 0.01 | 15 | \$374 | 76% | 0.2 |
| PECO | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Education | Motors | Early | motor | 2,942 | 3.6% | 0.01 | 15 | \$374 | 76% | 0.2 |
| PECO | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Education | Motors | New | motor | 2,853 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| PECO | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Education | Motors | New | motor | 2,853 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| PECO | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Education | Motors | New | motor | 2,853 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| PECO | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Education | Motors | New | motor | 2,853 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| PECO | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Education | Motors | New | motor | 2,853 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| PECO | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Education | Motors | ROB | motor | 2,853 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| PECO | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Education | Motors | ROB | motor | 2,853 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| PECO | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Education | Motors | ROB | motor | 2,853 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| PECO | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Education | Motors | ROB | motor | 2,853 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| PECO | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Education | Motors | Early | motor | 4,338 | 3.1% | 0.02 | 15 | \$402 | 76% | 0.2 |
| PECO | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Education | Motors | Early | motor | 4,338 | 3.1% | 0.02 | 15 | \$402 | 76% | 0.2 |
| PECO | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Education | Motors | Early | motor | 4,338 | 3.1% | 0.02 | 15 | \$402 | 76% | 0.2 |
| PECO | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Education | Motors | Early | motor | 4,338 | 3.1% | 0.01 | 15 | \$402 | 76% | 0.2 |
| PECO | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Education | Motors | Early | motor | 4,338 | 3.1% | 0.02 | 15 | \$402 | 76% | 0.2 |
| PECO | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Education | Motors | New | motor | 4,229 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.3 |
| PECO | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Education | Motors | New | motor | 4,229 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.3 |
| PECO | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Education | Motors | New | motor | 4,229 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.3 |
| PECO | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Education | Motors | New | motor | 4,229 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.3 |
| PECO | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Education | Motors | ROB | motor | 4,229 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.3 |
| PECO | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Education | Motors | ROB | motor | 4,229 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.3 |
| PECO | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Education | Motors | ROB | motor | 4,229 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.3 |
| PECO | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Education | Motors | ROB | motor | 4,229 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.3 |
| PECO | 10 HP Motor, Ultra-PE | 10 HP motor w/ baseline efficiency (4 pole) | Education | Motors | Early | motor | 27,164 | 2.6% | 0.10 | 15 | \$962 | 85% | 0.5 |
| PECO | 10 HP Motor, Ultra-PE | 10 HP motor w/ baseline efficiency (4 pole) | Education | Motors | Early | motor | 27,164 | 2.6% | 0.10 | 15 | \$962 | 85% | 0.5 |
| PECO | 10 HP Motor, Ultra-PE | 10 HP motor w/ baseline efficiency (4 pole) | Education | Motors | Early | motor | 27,164 | 2.6% | 0.10 | 15 | \$962 | 85% | 0.5 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---|--|-----------|---------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Education | Motors | New | motor | 20,101 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.6 |
| PECO | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Education | Motors | ROB | motor | 20,101 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.6 |
| PECO | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Education | Motors | ROB | motor | 20,101 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.6 |
| PECO | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Education | Motors | ROB | motor | 20,101 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.6 |
| PECO | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Education | Motors | ROB | motor | 20,101 | 0.5% | 0.01 | 15 | \$123 | 83% | 0.6 |
| PECO | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Education | Motors | ROB | motor | 20,101 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.6 |
| PECO | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Education | Motors | Early | motor | 194,147 | 1.3% | 0.4 | 15 | \$3,955 | 61% | 0.5 |
| PECO | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Education | Motors | Early | motor | 194,147 | 1.3% | 0.4 | 15 | \$3,955 | 61% | 0.5 |
| PECO | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Education | Motors | Early | motor | 194,147 | 1.3% | 0.4 | 15 | \$3,955 | 61% | 0.5 |
| PECO | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Education | Motors | Early | motor | 194,147 | 1.3% | 0.3 | 15 | \$3,955 | 61% | 0.4 |
| PECO | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Education | Motors | Early | motor | 194,147 | 1.3% | 0.4 | 15 | \$3,955 | 61% | 0.5 |
| PECO | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Education | Motors | New | motor | 192,547 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.3 |
| PECO | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Education | Motors | New | motor | 192,547 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.3 |
| PECO | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Education | Motors | New | motor | 192,547 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.3 |
| PECO | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Education | Motors | ROB | motor | 192,547 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.3 |
| PECO | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Education | Motors | ROB | motor | 192,547 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.3 |
| PECO | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Education | Motors | ROB | motor | 192,547 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.3 |
| PECO | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Education | Motors | ROB | motor | 192,547 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.3 |
| PECO | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Education | Motors | ROB | motor | 192,547 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.3 |
| PECO | ASD HVAC Fan | Std. HVAC Fan | Education | Motors | New | measure | 60,857 | 6.0% | 0.4 | 15 | \$3,455 | 85% | 0.7 |
| PECO | ASD HVAC Fan | Std. HVAC Fan | Education | Motors | ROB | measure | 60,857 | 6.0% | 0.4 | 15 | \$3,455 | 85% | 0.7 |
| PECO | demand controlled ventilation | Absence of Demand Controlled Ventilation | Education | Motors | Early | measure | 60,857 | 14% | 1.0 | 10 | \$8,057 | 92% | 0.5 |
| PECO | demand controlled ventilation | Office building thermostat | Education | Motors | New | measure | 60,857 | 14% | 1.0 | 10 | \$6,286 | 92% | 0.7 |
| PECO | demand controlled ventilation | Office building thermostat | Education | Motors | ROB | measure | 60,857 | 14% | 1.0 | 10 | \$6,286 | 92% | 0.7 |
| PECO | Downsizing motor during retrofit | Larger hp standard motor | Education | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 24.8 |
| PECO | Downsizing motor during retrofit | Larger hp standard motor | Education | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 25.0 |
| PECO | Downsizing motor during retrofit | Larger hp standard motor | Education | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 25.8 |
| PECO | Downsizing motor during retrofit | Larger hp standard motor | Education | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 25.4 |
| PECO | Downsizing motor during retrofit | Larger hp standard motor | Education | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 26.4 |
| PECO | Downsizing motor during retrofit | Larger hp standard motor | Education | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 24.6 |
| PECO | Downsizing motor during retrofit | Larger hp standard motor | Education | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 25.2 |
| PECO | Downsizing motor during retrofit | Larger hp standard motor | Education | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 25.9 |
| PECO | Downsizing motor during retrofit | Larger hp standard motor | Education | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 25.4 |
| PECO | Downsizing motor during retrofit | Larger hp standard motor | Education | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 26.5 |
| PECO | Energy Efficient Laboratory Fume Hood | Std. Fume Hood | Education | Motors | New | measure | 62,400 | 0.4% | 0.00 | 15 | \$62 | 60% | 2.3 |
| PECO | Energy Efficient Laboratory Fume Hood | Std. Fume Hood | Education | Motors | ROB | measure | 62,400 | 0.4% | 0.00 | 15 | \$62 | 60% | 2.3 |
| PECO | Escalator Motor Controller | Constant power control | Education | Motors | New | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 22% | 6.7 |
| PECO | Escalator Motor Controller | Constant power control | Education | Motors | ROB | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 22% | 6.7 |
| PECO | Fan Motor - correct sizing | Incorrect Fan Motor Sizing | Education | Motors | ROB | measure | 60,857 | 1.6% | 0.1 | 15 | \$50 | 92% | 13.8 |
| PECO | Variable Speed Drive Control, 15HP | Existing Motors w/out VSD Drive | Education | Motors | Early | motor | 40,202 | 70% | 3.1 | 15 | \$731 | 86% | 25.7 |
| PECO | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Education | Motors | New | motor | 39,338 | 72% | 3.1 | 15 | \$731 | 86% | 25.7 |
| PECO | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Education | Motors | ROB | motor | 39,338 | 72% | 3.1 | 15 | \$731 | 86% | 25.7 |
| PECO | Variable Speed Drive Control, 40HP | Existing Motors w/out VSD Drive | Education | Motors | Early | motor | 104,900 | 71% | 8.2 | 15 | \$4,666 | 86% | 10.6 |
| PECO | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Education | Motors | New | motor | 103,674 | 72% | 8.2 | 15 | \$4,666 | 86% | 10.6 |
| PECO | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Education | Motors | ROB | motor | 103,674 | 72% | 8.2 | 15 | \$4,666 | 86% | 10.6 |
| PECO | Variable Speed Drive Control, 5HP | Existing Motors w/out VFD Drive | Education | Motors | Early | motor | 13,937 | 70% | 1.1 | 15 | \$2,243 | 86% | 2.9 |
| PECO | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Education | Motors | New | motor | 13,625 | 72% | 1.1 | 15 | \$2,243 | 86% | 2.9 |
| PECO | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Education | Motors | ROB | motor | 13,625 | 72% | 1.1 | 15 | \$2,243 | 86% | 2.9 |
| PECO | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Education | Motors | Early | motor | 68,319 | 1.6% | 0.1 | 15 | \$268 | 40% | 3.0 |
| PECO | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Education | Motors | New | motor | 68,319 | 1.6% | 0.1 | 15 | \$268 | 40% | 3.0 |
| PECO | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Education | Motors | ROB | motor | 68,319 | 1.6% | 0.1 | 15 | \$268 | 40% | 3.0 |
| PECO | VFD on Chilled Water Pump | Motor w/out VFD Drive | Education | Motors | Early | motor | 37,171 | 54% | 2.7 | 15 | \$2,903 | 86% | 5.0 |
| PECO | VFD on Chilled Water Pump | Motor w/out VFD Drive | Education | Motors | New | motor | 36,476 | 55% | 2.7 | 15 | \$2,843 | 86% | 5.1 |
| PECO | VFD on Chilled Water Pump | Motor w/out VFD Drive | Education | Motors | ROB | motor | 36,476 | 55% | 2.7 | 15 | \$2,843 | 86% | 5.1 |
| PECO | VFD on Condenser Water Pump | Motor w/out VFD Drive | Education | Motors | Early | motor | 34,961 | 32% | 3.2 | 15 | \$2,903 | 86% | 3.4 |
| PECO | VFD on Condenser Water Pump | Motor w/out VFD Drive | Education | Motors | New | motor | 34,307 | 33% | 3.1 | 15 | \$2,843 | 86% | 3.4 |
| PECO | VFD on Condenser Water Pump | Motor w/out VFD Drive | Education | Motors | ROB | motor | 34,307 | 33% | 3.1 | 15 | \$2,843 | 86% | 3.4 |
| PECO | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Education | Motors | Early | motor | 34,851 | 56% | 0.00 | 15 | \$2,903 | 86% | 3.9 |
| PECO | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Education | Motors | New | motor | 34,199 | 57% | 0.00 | 15 | \$2,843 | 86% | 3.9 |
| PECO | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Education | Motors | ROB | motor | 34,199 | 57% | 0.00 | 15 | \$2,843 | 86% | 3.9 |
| PECO | VFD on HVAC Fan | Motor w/out VFD | Education | Motors | Early | motor | 37,199 | 70% | 3.4 | 15 | \$2,903 | 86% | 6.2 |
| PECO | VFD on HVAC Fan | Motor w/out VFD | Education | Motors | New | motor | 36,503 | 72% | 3.3 | 15 | \$2,843 | 86% | 6.3 |
| PECO | VFD on HVAC Fan | Motor w/out VFD | Education | Motors | ROB | motor | 36,503 | 72% | 3.3 | 15 | \$2,843 | 86% | 6.3 |
| PECO | Elevators | Std. Eff Elevator | Education | Other | ROB | measure | 89,016 | 1.8% | 0.1 | 15 | \$379 | 81% | 2.8 |
| PECO | Variable Speed Drives on Process Equipment | Constant speed control | Education | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 12.4 |
| PECO | Variable Speed Drives on Process Equipment | Constant speed control | Education | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 12.4 |
| PECO | Auto Off Time Switch | Lighting w/ No Controls | Education | Other Int. Lighting | Existing | building | 26,424 | 24% | 0.2 | 8 | \$3,237 | 13% | 0.7 |
| PECO | Auto Off Time Switch | Lighting w/ No Controls | Education | Other Int. Lighting | New | building | 26,424 | 7.0% | 0.07 | 8 | \$3,237 | 0% | 0.2 |
| PECO | Central Lighting Control System | Lighting w/ No Controls | Education | Other Int. Lighting | Existing | building | 26,424 | 38% | 0.4 | 8 | \$3,237 | 13% | 1.1 |
| PECO | Central Lighting Control System | Lighting w/ No Controls | Education | Other Int. Lighting | New | building | 26,424 | 14% | 0.1 | 8 | \$3,237 | 13% | 0.4 |
| PECO | Cold Cathode Screw-In Bulb | 40W Incandescent Bulb | Education | Other Int. Lighting | Early | lamp | 145 | 87% | 0.03 | 11 | \$30 | 14% | 2.6 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Education | Other Int. Lighting | Early | lamp | 104 | 81% | 0.02 | 11 | \$30 | 11% | 1.7 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Education | Other Int. Lighting | New | lamp | 79 | 81% | 0.01 | 11 | \$21 | 14% | 1.8 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Education | Other Int. Lighting | New | lamp | 79 | 81% | 0.01 | 11 | \$23 | 14% | 1.7 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Education | Other Int. Lighting | New | lamp | 79 | 81% | 0.01 | 11 | \$22 | 11% | 1.8 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---|---|-----------|---------------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Education | Other Int. Lighting | ROB | lamp | 104 | 81% | 0.02 | 11 | \$21 | 14% | 2.4 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Education | Other Int. Lighting | ROB | lamp | 104 | 81% | 0.02 | 11 | \$23 | 14% | 2.3 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Education | Other Int. Lighting | ROB | lamp | 104 | 81% | 0.02 | 11 | \$22 | 11% | 2.4 |
| PECO | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Education | Other Int. Lighting | Early | lamp | 145 | 75% | 0.02 | 4 | \$73 | 18% | 0.4 |
| PECO | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Education | Other Int. Lighting | New | fixture | 157 | 65% | 0.02 | 13 | \$29 | 21% | 2.5 |
| PECO | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Education | Other Int. Lighting | New | lamp | 79 | 65% | 0.01 | 4 | \$29 | 21% | 0.4 |
| PECO | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Education | Other Int. Lighting | ROB | fixture | 207 | 65% | 0.03 | 13 | \$29 | 18% | 3.3 |
| PECO | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Education | Other Int. Lighting | ROB | lamp | 104 | 65% | 0.01 | 4 | \$29 | 18% | 0.6 |
| PECO | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Education | Other Int. Lighting | Early | lamp | 145 | 75% | 0.02 | 4 | \$3.2 | 20% | 8.5 |
| PECO | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Education | Other Int. Lighting | New | lamp | 79 | 65% | 0.01 | 4 | \$1.8 | 20% | 7.2 |
| PECO | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Education | Other Int. Lighting | ROB | lamp | 104 | 65% | 0.01 | 4 | \$1.8 | 20% | 9.4 |
| PECO | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Education | Other Int. Lighting | ROB | lamp | 104 | 65% | 0.01 | 4 | \$1.8 | 20% | 9.4 |
| PECO | Exit Sign Retrofit: CFL replacing Incandescent | One 23W Single Sided Incandescent Exit Sign | Education | Other Int. Lighting | Early | exit sign | 139 | 42% | 0.01 | 15 | \$48 | 22% | 0.8 |
| PECO | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Education | Other Int. Lighting | New | building | 26,424 | 10% | 0.1 | 15 | \$35,171 | 32% | 0.0 |
| PECO | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Education | Other Int. Lighting | New | building | 26,424 | 15% | 0.2 | 15 | \$87,927 | 32% | 0.0 |
| PECO | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Education | Other Int. Lighting | New | building | 26,424 | 30% | 0.3 | 15 | \$126,028 | 32% | 0.0 |
| PECO | Indoor Daylight Sensors | Lighting w/ No Controls | Education | Other Int. Lighting | Existing | building | 26,424 | 28% | 0.3 | 8 | \$15,932 | 13% | 0.2 |
| PECO | Indoor Daylight Sensors | Lighting w/ No Controls | Education | Other Int. Lighting | New | building | 26,424 | 4.1% | 0.04 | 8 | \$15,932 | 0% | 0.0 |
| PECO | LED Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Education | Other Int. Lighting | Early | sign | 153 | 87% | 0.02 | 15 | \$48 | 16% | 1.9 |
| PECO | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Education | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 2.1 |
| PECO | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Education | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 2.1 |
| PECO | LED Task Lighting/Screw-In | 1 15W CFL bulb | Education | Other Int. Lighting | Early | lamp | 45 | 33% | 0.00 | 8 | \$9.6 | 20% | 0.7 |
| PECO | LED Task Lighting/Screw-In | 1 60W Incandescent Bulb | Education | Other Int. Lighting | Early | lamp | 179 | 83% | 0.02 | 8 | \$9.6 | 20% | 6.7 |
| PECO | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Education | Other Int. Lighting | New | lamp | 98 | 77% | 0.01 | 8 | \$7.9 | 20% | 4.1 |
| PECO | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Education | Other Int. Lighting | New | lamp | 98 | 77% | 0.01 | 8 | \$7.9 | 20% | 4.1 |
| PECO | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Education | Other Int. Lighting | ROB | lamp | 129 | 77% | 0.01 | 8 | \$7.9 | 20% | 5.3 |
| PECO | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Education | Other Int. Lighting | ROB | lamp | 129 | 77% | 0.01 | 8 | \$7.9 | 20% | 5.3 |
| PECO | Occupancy Sensor | Lighting w/ No Controls | Education | Other Int. Lighting | Existing | building | 26,424 | 24% | 0.2 | 8 | \$4,877 | 11% | 0.5 |
| PECO | Occupancy Sensor | Lighting w/ No Controls | Education | Other Int. Lighting | New | building | 26,424 | 7.0% | 0.07 | 8 | \$4,877 | 0% | 0.1 |
| PECO | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Education | Other Int. Lighting | Existing | building | 26,424 | 28% | 0.3 | 8 | \$15,932 | 11% | 0.2 |
| PECO | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Education | Other Int. Lighting | New | building | 26,424 | 4.1% | 0.04 | 8 | \$15,932 | 0% | 0.0 |
| PECO | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Education | Other Int. Lighting | Early | exit sign | 139 | 100% | 0.02 | 15 | \$173 | 26% | 0.6 |
| PECO | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Education | Other Int. Lighting | New | exit sign | 80 | 100% | 0.01 | 15 | \$148 | 31% | 0.4 |
| PECO | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Education | Other Int. Lighting | ROB | exit sign | 80 | 100% | 0.01 | 15 | \$148 | 26% | 0.4 |
| PECO | Time Clock Control | Lighting w/ No Controls | Education | Other Int. Lighting | Existing | building | 26,424 | 28% | 0.3 | 8 | \$3,237 | 13% | 0.8 |
| PECO | Time Clock Control | Lighting w/ No Controls | Education | Other Int. Lighting | New | building | 26,424 | 4.1% | 0.04 | 8 | \$3,237 | 0% | 0.1 |
| PECO | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Education | Plug Load | Existing | building | 2,912 | 46% | 0.5 | 5 | \$189 | 4% | 2.6 |
| PECO | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Education | Plug Load | New | building | 1,422 | 46% | 0.5 | 5 | \$189 | 4% | 1.8 |
| PECO | Data Center - Server/Storage Consolidation | No Consolidation | Education | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PECO | Data Center - Server/Storage Consolidation | No Consolidation | Education | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PECO | Data Center - Server/Storage Virtualization | No Virtualization | Education | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PECO | Data Center - Server/Storage Virtualization | No Virtualization | Education | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PECO | Energy Star - Scanners | Std Scanner | Education | Plug Load | New | measure | 68 | 3.9% | 0.04 | 4 | \$777 | 7% | 0.0 |
| PECO | Energy Star - Scanners | Std Scanner | Education | Plug Load | ROB | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| PECO | Energy Star Dishwasher | Existing Dishwasher units | Education | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,580 | 6% | 1.1 |
| PECO | Energy Star Dishwasher | Standard Dishwasher unit | Education | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 6% | 3.6 |
| PECO | Energy Star Dishwasher | Standard Dishwasher unit | Education | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 6% | 3.6 |
| PECO | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Education | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 17% | 0.2 |
| PECO | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Education | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.3 |
| PECO | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Education | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.3 |
| PECO | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Education | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 9% | 0.8 |
| PECO | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Education | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.8 |
| PECO | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Education | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.8 |
| PECO | ENERGY STAR® Copiers | 10% Less Efficient Copier | Education | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 18% | 0.0 |
| PECO | ENERGY STAR® Copiers | One Conventional Copier | Education | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| PECO | ENERGY STAR® Copiers | One Conventional Copier | Education | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| PECO | ENERGY STAR® desktop | Standard computer | Education | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 69% | 0.1 |
| PECO | ENERGY STAR® desktop | Standard computer | Education | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.4 |
| PECO | ENERGY STAR® desktop | Standard computer | Education | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.4 |
| PECO | ENERGY STAR® Fax | 10% Less Efficient Fax | Education | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 15% | 0.0 |
| PECO | ENERGY STAR® Fax | One Conventional Fax | Education | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| PECO | ENERGY STAR® Fax | One Conventional Fax | Education | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| PECO | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Education | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 70% | 0.0 |
| PECO | ENERGY STAR® Monitors | One Conventional Monitor | Education | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| PECO | ENERGY STAR® Monitors | One Conventional Monitor | Education | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| PECO | ENERGY STAR® Printers | 10% Less Efficient Printer | Education | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 44% | 0.0 |
| PECO | ENERGY STAR® Printers | One Conventional Printer | Education | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.4 |
| PECO | ENERGY STAR® Printers | One Conventional Printer | Education | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$1,426 | 44% | 0.0 |
| PECO | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Education | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 43% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---|---|-----------|---------------|----------|-------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Education | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.8 |
| PECO | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Education | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.8 |
| PECO | ENERGY STAR® Televisions | 10% Less Efficient Television | Education | Plug Load | Early | Unit | 185 | 38% | 0.01 | 6 | \$672 | 40% | 0.0 |
| PECO | ENERGY STAR® Televisions | One Conventional Television | Education | Plug Load | New | Unit | 168 | 32% | 0.01 | 6 | \$206 | 40% | 0.1 |
| PECO | ENERGY STAR® Televisions | One Conventional Television | Education | Plug Load | ROB | Unit | 168 | 32% | 0.01 | 6 | \$206 | 40% | 0.1 |
| PECO | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Education | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 24% | 0.3 |
| PECO | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Education | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.7 |
| PECO | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Education | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.7 |
| PECO | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Education | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.3 |
| PECO | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Education | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.3 |
| PECO | Network PC Power Management | No PC Power Management | Education | Plug Load | Existing | building | 425 | 33% | 0.3 | 5 | \$12 | 38% | 115.1 |
| PECO | Network PC Power Management | No PC Power Management | Education | Plug Load | New | building | 425 | 33% | 0.3 | 5 | \$12 | 38% | 115.1 |
| PECO | Smart Strip Plug Outlets | Standard plug strip/outlet | Education | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.4 |
| PECO | Smart Strip Plug Outlets | Standard plug strip/outlet | Education | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.4 |
| PECO | Smart Strip Plug Outlets | Standard plug strip/outlet | Education | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PECO | Smart Strip Plug Outlets | Standard plug strip/outlet | Education | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PECO | Smart Strip Plug Outlets | Standard plug strip/outlet | Education | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PECO | Smart Strip Plug Outlets | Standard plug strip/outlet | Education | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PECO | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Education | Plug Load | Existing | building | 2,913 | 46% | 0.5 | 5 | \$180 | 3% | 2.7 |
| PECO | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Education | Plug Load | New | building | 1,422 | 46% | 0.5 | 5 | \$180 | 3% | 1.9 |
| PECO | Air curtain technology | Strip plastic curtain | Education | Refrigeration | New | building | 19,472 | 6.8% | 0.07 | 8 | \$2,352 | 35% | 0.2 |
| PECO | Air curtain technology | Strip plastic curtain | Education | Refrigeration | New | building | 10,971 | 6.8% | 0.07 | 8 | \$2,352 | 35% | 0.1 |
| PECO | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Education | Refrigeration | Existing | building | 4,063 | 0.7% | 0.01 | 12 | \$70 | 11% | 0.3 |
| PECO | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Education | Refrigeration | New | building | 4,063 | 0.7% | 0.01 | 12 | \$70 | 11% | 0.3 |
| PECO | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Education | Refrigeration | Existing | building | 4,063 | 7.0% | 0.07 | 12 | \$70 | 11% | 2.7 |
| PECO | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Education | Refrigeration | New | building | 4,063 | 7.0% | 0.07 | 12 | \$70 | 11% | 2.7 |
| PECO | Auto Closer on Refrigerator Door | Door w/out Autocloser | Education | Refrigeration | Existing | building | 10,971 | 6.4% | 0.06 | 8 | \$698 | 40% | 0.4 |
| PECO | Auto Closer on Refrigerator Door | Door w/out Autocloser | Education | Refrigeration | Existing | building | 19,472 | 2.9% | 0.03 | 8 | \$559 | 40% | 0.4 |
| PECO | Auto Closer on Refrigerator Door | Door w/out Autocloser | Education | Refrigeration | New | building | 10,971 | 6.4% | 0.06 | 8 | \$698 | 40% | 0.4 |
| PECO | Auto Closer on Refrigerator Door | Door w/out Autocloser | Education | Refrigeration | New | building | 19,472 | 2.9% | 0.03 | 8 | \$559 | 40% | 0.4 |
| PECO | Demand Hot Gas Defrost | Base Refrigeration System | Education | Refrigeration | Existing | building | 4,063 | 3.0% | 0.03 | 10 | \$1,191 | 0% | 0.1 |
| PECO | Demand Hot Gas Defrost | Base Refrigeration System | Education | Refrigeration | New | building | 4,063 | 3.0% | 0.03 | 10 | \$1,191 | 0% | 0.1 |
| PECO | Door Gasket- Freezer | Door w/out Gasket | Education | Refrigeration | Existing | building | 10,971 | 3.5% | 0.04 | 4 | \$72 | 29% | 1.1 |
| PECO | Door Gasket- Freezer | Door w/out Gasket | Education | Refrigeration | New | building | 10,971 | 3.7% | 0.04 | 4 | \$72 | 29% | 1.1 |
| PECO | Door Gasket- Refrigerator | Door w/out Gasket | Education | Refrigeration | Existing | building | 19,472 | 0.9% | 0.01 | 4 | \$77 | 45% | 0.4 |
| PECO | Door Gasket- Refrigerator | Door w/out Gasket | Education | Refrigeration | New | building | 19,472 | 0.9% | 0.01 | 4 | \$77 | 45% | 0.4 |
| PECO | Economizer for Walk-in Coolers | No Economizer | Education | Refrigeration | Early | measure | 39,466 | 6.6% | 0.4 | 10 | \$459 | 72% | 2.8 |
| PECO | Economizer for Walk-in Coolers | No Economizer | Education | Refrigeration | Early | measure | 39,466 | 6.6% | 0.4 | 10 | \$459 | 72% | 2.8 |
| PECO | Economizer for Walk-in Coolers | No Economizer | Education | Refrigeration | Early | measure | 39,466 | 6.6% | 0.4 | 10 | \$459 | 72% | 2.8 |
| PECO | Economizer for Walk-in Coolers | No Economizer | Education | Refrigeration | New | measure | 39,466 | 6.6% | 0.4 | 10 | \$54 | 72% | 23.8 |
| PECO | Economizer for Walk-in Coolers | No Economizer | Education | Refrigeration | New | measure | 39,466 | 6.6% | 0.4 | 10 | \$54 | 72% | 23.9 |
| PECO | Economizer for Walk-in Coolers | No Economizer | Education | Refrigeration | New | measure | 39,466 | 6.6% | 0.4 | 10 | \$54 | 72% | 23.9 |
| PECO | Economizer for Walk-in Coolers | No Economizer | Education | Refrigeration | ROB | measure | 39,466 | 6.6% | 0.4 | 10 | \$54 | 72% | 23.8 |
| PECO | Economizer for Walk-in Coolers | No Economizer | Education | Refrigeration | ROB | measure | 39,466 | 6.6% | 0.4 | 10 | \$54 | 72% | 23.9 |
| PECO | Economizer for Walk-in Coolers | No Economizer | Education | Refrigeration | ROB | measure | 39,466 | 6.6% | 0.4 | 10 | \$54 | 72% | 23.9 |
| PECO | eCube | Refrigeration unit w/out eCube | Education | Refrigeration | Existing | building | 19,472 | 15% | 0.2 | 15 | \$1,164 | 57% | 1.5 |
| PECO | eCube | Refrigeration unit w/out eCube | Education | Refrigeration | New | building | 19,472 | 15% | 0.2 | 15 | \$1,164 | 57% | 1.5 |
| PECO | Efficient compressor motor | Base Refrigeration System - Grocery | Education | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| PECO | Efficient compressor motor | Base Refrigeration System - Grocery | Education | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| PECO | Efficient compressor motor | Base Refrigeration System - Grocery | Education | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| PECO | Efficient compressor motor | Base Refrigeration System - Grocery | Education | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| PECO | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Education | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.6 |
| PECO | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Education | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| PECO | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Education | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| PECO | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Education | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.3 |
| PECO | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Education | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.8 |
| PECO | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Education | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.8 |
| PECO | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Education | Refrigeration | Existing | building | 19,472 | 1.3% | 0.01 | 10 | \$369 | 77% | 0.3 |
| PECO | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Education | Refrigeration | New | building | 19,472 | 1.3% | 0.01 | 10 | \$369 | 77% | 0.3 |
| PECO | Floating head pressure controller | System w/out FHPC | Education | Refrigeration | Existing | building | 10,971 | 2.1% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| PECO | Floating head pressure controller | System w/out FHPC | Education | Refrigeration | Existing | building | 4,063 | 2.3% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| PECO | Floating head pressure controller | System w/out FHPC | Education | Refrigeration | Existing | building | 19,472 | 0.4% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| PECO | Floating head pressure controller | System w/out FHPC | Education | Refrigeration | New | building | 10,971 | 2.1% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| PECO | Floating head pressure controller | System w/out FHPC | Education | Refrigeration | New | building | 4,063 | 2.3% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| PECO | Floating head pressure controller | System w/out FHPC | Education | Refrigeration | New | building | 19,472 | 0.4% | 0.00 | 15 | \$8,682 | 41% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|--|--|-----------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | High Efficiency Commercial Freezer | Std. Commercial Freezer | Education | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 86% | 0.3 |
| PECO | High Efficiency Commercial Freezer | Std. Commercial Freezer | Education | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 4.2 |
| PECO | High Efficiency Commercial Freezer | Std. Commercial Freezer | Education | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 4.2 |
| PECO | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Education | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 21% | 0.1 |
| PECO | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Education | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 21% | 0.9 |
| PECO | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Education | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 21% | 0.9 |
| PECO | High Efficiency Ice Maker | Existing Standard Efficiency Ice Maker in Pennsylvania | Education | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 73% | 0.2 |
| PECO | High Efficiency Ice Maker | Standard code minimum Ice Maker | Education | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| PECO | High Efficiency Ice Maker | Standard code minimum Ice Maker | Education | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| PECO | High Efficiency Ice Making Head | Standard Ice Making Head | Education | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 4.1 |
| PECO | High Efficiency Ice Making Head | Standard Ice Making Head | Education | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 4.1 |
| PECO | High R-Value Glass Doors | Base Refrigeration System - Grocery | Education | Refrigeration | Existing | building | 4,063 | 0.7% | 0.01 | 10 | \$53 | 0% | 0.3 |
| PECO | High R-Value Glass Doors | Base Refrigeration System - Grocery | Education | Refrigeration | New | building | 4,063 | 0.7% | 0.01 | 10 | \$53 | 0% | 0.3 |
| PECO | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Education | Refrigeration | Early | Fixture | 373 | 56% | 0.02 | 8 | \$448 | 66% | 0.2 |
| PECO | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Education | Refrigeration | New | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 66% | 0.3 |
| PECO | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Education | Refrigeration | ROB | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 66% | 0.3 |
| PECO | No-heat glass doors | Standard low-temp reach-in | Education | Refrigeration | Existing | building | 4,063 | 20% | 0.2 | 10 | \$4,822 | 8% | 0.1 |
| PECO | No-heat glass doors | Standard low-temp reach-in | Education | Refrigeration | New | building | 4,063 | 20% | 0.2 | 10 | \$4,822 | 8% | 0.1 |
| PECO | Quick acting freezer doors | Std. Freezer Doors | Education | Refrigeration | Existing | building | 10,971 | 13% | 0.1 | 10 | \$2,838 | 56% | 0.2 |
| PECO | Quick acting freezer doors | Std. Freezer Doors | Education | Refrigeration | New | building | 10,971 | 13% | 0.1 | 10 | \$2,838 | 56% | 0.2 |
| PECO | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Education | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 30% | 0.4 |
| PECO | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Education | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.6 |
| PECO | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Education | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.6 |
| PECO | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 30% | 1.7 |
| PECO | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 3.0 |
| PECO | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 3.0 |
| PECO | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 30% | 1.7 |
| PECO | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 4.0 |
| PECO | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 4.0 |
| PECO | Refrigeration Commissioning | Non-commissioned refrigeration system | Education | Refrigeration | Existing | building | 35,759 | 9.5% | 0.10 | 3 | \$8,955 | 85% | 0.0 |
| PECO | Refrigeration Commissioning | Non-commissioned refrigeration system | Education | Refrigeration | New | building | 35,759 | 9.5% | 0.10 | 3 | \$8,955 | 85% | 0.0 |
| PECO | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Education | Refrigeration | Existing | building | 10,971 | 8.2% | 0.08 | 4 | \$87 | 22% | 2.0 |
| PECO | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Education | Refrigeration | Existing | building | 19,472 | 1.3% | 0.01 | 4 | \$94 | 22% | 0.5 |
| PECO | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Education | Refrigeration | New | building | 10,971 | 8.2% | 0.08 | 4 | \$87 | 22% | 2.0 |
| PECO | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Education | Refrigeration | New | building | 19,472 | 1.3% | 0.01 | 4 | \$94 | 22% | 0.5 |
| PECO | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Education | Refrigeration | Existing | building | 10,971 | 1.9% | 0.02 | 11 | \$148 | 79% | 0.7 |
| PECO | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Education | Refrigeration | New | building | 10,971 | 1.9% | 0.02 | 11 | \$148 | 79% | 0.7 |
| PECO | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Education | Refrigeration | Existing | building | 19,472 | 1.4% | 0.01 | 11 | \$148 | 79% | 0.8 |
| PECO | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Education | Refrigeration | New | building | 19,472 | 1.4% | 0.01 | 11 | \$148 | 79% | 0.8 |
| PECO | Vertical Night Covers | Display cases w/out night covers-High Temperature | Education | Refrigeration | Existing | building | 4,063 | 0.2% | 0.00 | 5 | \$66 | 9% | 0.0 |
| PECO | Vertical Night Covers | Display cases w/out night covers-High Temperature | Education | Refrigeration | New | building | 4,063 | 0.2% | 0.00 | 5 | \$66 | 9% | 0.0 |
| PECO | VSD Controlled Compressor | Compressor w/out VSD | Education | Refrigeration | Early | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 63% | 0.2 |
| PECO | VSD Controlled Compressor | Compressor w/out VSD | Education | Refrigeration | New | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 63% | 0.2 |
| PECO | VSD Controlled Compressor | Compressor w/out VSD | Education | Refrigeration | ROB | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 63% | 0.2 |
| PECO | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Education | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$269 | 35% | 0.9 |
| PECO | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Education | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$269 | 35% | 0.9 |
| PECO | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Education | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.2 |
| PECO | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Education | Refrigeration | New | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 3.1 |
| PECO | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Education | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.2 |
| PECO | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Education | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 3.1 |
| PECO | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 35% | 2.4 |
| PECO | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 35% | 2.3 |
| PECO | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 5.2 |
| PECO | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.9 |
| PECO | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 5.2 |
| PECO | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.9 |
| PECO | Adding reflective roof treatment | Std color roof | Education | Space Heating | Existing | building | 36,301 | 7.1% | 0.07 | 6 | \$22,090 | 82% | 0.0 |
| PECO | Adding reflective roof treatment | Std color roof | Education | Space Heating | New | building | 36,301 | 7.1% | 0.07 | 6 | \$22,090 | 82% | 0.0 |
| PECO | Adding window shade film | No shade film | Education | Space Heating | Existing | building | 36,301 | 1.3% | 0.4 | 10 | \$442 | 13% | 1.1 |
| PECO | Adding window shade film | No shade film | Education | Space Heating | New | building | 36,301 | 1.3% | 0.4 | 10 | \$442 | 13% | 1.1 |
| PECO | Adding window shade screen | No shade screen | Education | Space Heating | Existing | building | 36,301 | 1.1% | 0.01 | 10 | \$171 | 13% | 0.9 |
| PECO | Adding window shade screen | No shade screen | Education | Space Heating | New | building | 36,301 | 1.1% | 0.01 | 10 | \$171 | 13% | 0.9 |
| PECO | Automated control system | Manual Controls | Education | Space Heating | Existing | building | 36,301 | 17% | 0.2 | 15 | \$39,741 | 51% | 0.1 |
| PECO | Automated control system | Manual Controls | Education | Space Heating | New | building | 36,301 | 17% | 0.2 | 15 | \$39,741 | 94% | 0.1 |
| PECO | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Education | Space Heating | Existing | building | 36,301 | 1.6% | 0.02 | 15 | \$26,439 | 71% | 0.0 |
| PECO | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Education | Space Heating | New | building | 36,301 | 0.5% | 0.01 | 15 | \$25,131 | 94% | 0.0 |
| PECO | Duct Insulation, Add R8 | No Insulation | Education | Space Heating | Existing | building | 36,301 | 1.4% | 0.04 | 15 | \$288 | 20% | 1.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|--|---|-----------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Duct Insulation, Add R8 | No Insulation | Education | Space Heating | New | building | 36,301 | 1.4% | 0.04 | 15 | \$288 | 10% | 1.1 |
| PECO | Efficient Unit Heating System | Existing Unit Heaters in PA | Education | Space Heating | Early | heater | 17,668 | 23% | 0.03 | 15 | \$3,289 | 83% | 0.7 |
| PECO | Efficient Unit Heating System | Std. Unit Heater | Education | Space Heating | New | heater | 15,680 | 13% | 0.02 | 15 | \$1,991 | 83% | 0.5 |
| PECO | Efficient Unit Heating System | Std. Unit Heater | Education | Space Heating | ROB | heater | 15,680 | 13% | 0.02 | 15 | \$1,991 | 83% | 0.5 |
| PECO | Facility Commissioning | No Facility Commissioning | Education | Space Heating | New | building | 36,301 | 16% | 0.2 | 10 | \$5,998 | 89% | 0.4 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Education | Space Heating | Existing | building | 36,301 | 7.1% | 0.07 | 15 | \$161,022 | 25% | 0.0 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Education | Space Heating | New | building | 36,301 | 7.1% | 0.07 | 15 | \$161,022 | 35% | 0.0 |
| PECO | Hi Eff HVAC System Design | No HVAC Design | Education | Space Heating | New | building | 36,301 | 14% | 0.1 | 10 | \$89,023 | 51% | 0.0 |
| PECO | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Education | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 1.1 |
| PECO | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Education | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 1.1 |
| PECO | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Education | Space Heating | Existing | building | 36,301 | 3.5% | 0.04 | 10 | \$7,735 | 81% | 0.1 |
| PECO | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Education | Space Heating | New | building | 36,301 | 3.5% | 0.04 | 10 | \$7,735 | 81% | 0.1 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Education | Space Heating | Existing | building | 36,301 | 3.6% | 0.04 | 11 | \$286 | 49% | 2.0 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Education | Space Heating | New | building | 36,301 | 3.1% | 0.03 | 11 | \$146 | 49% | 3.4 |
| PECO | Re-Commissioning (Existing Construction) | No Re-Commissioning | Education | Space Heating | Existing | building | 36,301 | 16% | 0.2 | 5 | \$9,680 | 86% | 0.1 |
| PECO | VFD on Cooling Tower Fan | Motor w/out VFD | Education | Space Heating | Early | motor | 37,199 | 70% | 3.4 | 15 | \$2,843 | 88% | 6.1 |
| PECO | VFD on Cooling Tower Fan | Motor w/out VFD | Education | Space Heating | New | motor | 36,503 | 72% | 3.3 | 15 | \$2,843 | 88% | 6.0 |
| PECO | VFD on Cooling Tower Fan | Motor w/out VFD | Education | Space Heating | ROB | motor | 36,503 | 72% | 3.3 | 15 | \$2,843 | 88% | 6.0 |
| PECO | Wall Insulations (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Education | Space Heating | Existing | building | 36,301 | 3.6% | 0.04 | 15 | \$6,377 | 26% | 0.1 |
| PECO | Wall Insulations (Going upto R 21) | Code minimum Wall Insulations | Education | Space Heating | New | building | 36,301 | 0.1% | 0.00 | 15 | \$4,891 | 94% | 0.0 |
| PECO | Green LED Traffic Light | Green Incandescent Traffic Light | Education | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 0% | 1.3 |
| PECO | Green LED Traffic Light | Green Incandescent Traffic Light | Education | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.2 |
| PECO | Green LED Traffic Light | Green Incandescent Traffic Light | Education | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.2 |
| PECO | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Education | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 0% | 3.2 |
| PECO | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Education | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| PECO | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Education | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| PECO | Induction Street Lighting | One 100W HPS Street Light Fixture | Education | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 0% | 0.3 |
| PECO | Induction Street Lighting | One 100W HPS Street Light Fixture | Education | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.8 |
| PECO | Induction Street Lighting | One 100W HPS Street Light Fixture | Education | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.8 |
| PECO | LED Street Lighting | One 100W HPS Street Light | Education | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 0% | 0.2 |
| PECO | LED Street Lighting | One 100W HPS Street Light | Education | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| PECO | LED Street Lighting | One 100W HPS Street Light | Education | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| PECO | Red LED Traffic Light | One Red Incandescent Traffic Light | Education | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 0% | 1.7 |
| PECO | Red LED Traffic Light | One Red Incandescent Traffic Light | Education | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| PECO | Red LED Traffic Light | One Red Incandescent Traffic Light | Education | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| PECO | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Education | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 0% | 0.1 |
| PECO | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Education | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| PECO | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Education | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| PECO | Demand controlled Circulating Systems | Constant circulation system | Education | Water Heating | Existing | building | 26,620 | 20% | 0.2 | 15 | \$4,830 | 59% | 0.7 |
| PECO | Demand controlled Circulating Systems | Constant circulation system | Education | Water Heating | New | building | 26,620 | 20% | 0.2 | 15 | \$6,488 | 59% | 0.5 |
| PECO | Drainwater Heat Recovery Water Heater | No heat recovery | Education | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 2.0 |
| PECO | Drainwater Heat Recovery Water Heater | No heat recovery | Education | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 2.0 |
| PECO | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Education | Water Heating | Existing | building | 26,620 | 5.9% | 0.06 | 12 | \$210 | 85% | 3.7 |
| PECO | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Education | Water Heating | New | building | 26,620 | 5.9% | 0.06 | 12 | \$60 | 85% | 13.1 |
| PECO | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Education | Water Heating | Early | water heater | 46,899 | 66% | 5.5 | 10 | \$2,375 | 68% | 7.0 |
| PECO | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Education | Water Heating | Early | water heater | 46,899 | 66% | 5.5 | 10 | \$2,375 | 68% | 7.0 |
| PECO | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Education | Water Heating | New | water heater | 46,899 | 66% | 5.5 | 10 | \$2,375 | 68% | 7.0 |
| PECO | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Education | Water Heating | New | water heater | 46,899 | 66% | 5.5 | 10 | \$2,375 | 68% | 7.0 |
| PECO | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Education | Water Heating | ROB | water heater | 45,596 | 65% | 5.3 | 10 | \$2,375 | 68% | 6.7 |
| PECO | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Education | Water Heating | ROB | water heater | 45,596 | 65% | 5.3 | 10 | \$2,375 | 68% | 6.7 |
| PECO | Heat Recovery Unit | Base Water Heating | Education | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.7 |
| PECO | Heat Recovery Unit | Base Water Heating | Education | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.7 |
| PECO | Heat Trap | No Heat Trap | Education | Water Heating | Existing | building | 26,620 | 22% | 0.2 | 11 | \$181 | 50% | 15.2 |
| PECO | Heat Trap | No Heat Trap | Education | Water Heating | New | building | 26,620 | 22% | 0.2 | 11 | \$27 | 50% | 101.9 |
| PECO | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Education | Water Heating | Early | water heater | 46,899 | 5.9% | 0.5 | 15 | \$614 | 79% | 3.3 |
| PECO | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Education | Water Heating | Early | water heater | 46,899 | 5.9% | 0.5 | 15 | \$614 | 79% | 3.3 |
| PECO | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Education | Water Heating | New | water heater | 45,596 | 3.2% | 0.3 | 15 | \$614 | 79% | 1.8 |
| PECO | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Education | Water Heating | New | water heater | 45,596 | 3.2% | 0.3 | 15 | \$614 | 79% | 1.8 |
| PECO | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Education | Water Heating | ROB | water heater | 45,596 | 3.2% | 0.3 | 15 | \$614 | 79% | 1.8 |
| PECO | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Education | Water Heating | ROB | water heater | 45,596 | 3.2% | 0.3 | 15 | \$614 | 79% | 1.8 |
| PECO | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Education | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$466 | 81% | 41.5 |
| PECO | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Education | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 21.6 |
| PECO | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Education | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 21.6 |
| PECO | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Education | Water Heating | Existing | building | 26,620 | 0.4% | 0.00 | 13 | \$16 | 68% | 3.6 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|--|---|-----------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Education | Water Heating | New | building | 26,620 | 0.4% | 0.00 | 13 | \$16 | 0% | 3.6 |
| PECO | Hot Water Circulation Pump Time-Clock | Constant circulation system | Education | Water Heating | Existing | building | 26,620 | 5.3% | 0.05 | 10 | \$108 | 72% | 5.7 |
| PECO | Hot Water Circulation Pump Time-Clock | Constant circulation system | Education | Water Heating | New | building | 26,620 | 5.3% | 0.05 | 10 | \$108 | 72% | 5.6 |
| PECO | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Education | Water Heating | Existing | building | 26,620 | 0.2% | 0.00 | 7 | \$22 | 78% | 0.8 |
| PECO | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Education | Water Heating | New | building | 26,620 | 0.2% | 0.00 | 7 | \$0.5 | 78% | 36.0 |
| PECO | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Education | Water Heating | Existing | building | 26,620 | 0.6% | 0.01 | 5 | \$300 | 20% | 0.1 |
| PECO | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Education | Water Heating | New | building | 26,620 | 0.4% | 0.00 | 5 | \$194 | 20% | 0.1 |
| PECO | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Education | Water Heating | Existing | building | 26,620 | 6.5% | 0.07 | 9 | \$200 | 2% | 3.4 |
| PECO | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Education | Water Heating | New | building | 26,620 | 6.5% | 0.07 | 9 | \$48 | 2% | 14.2 |
| PECO | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Education | Water Heating | Early | water heater | 46,899 | 52% | 2.0 | 15 | \$12,444 | 32% | 1.3 |
| PECO | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Education | Water Heating | New | water heater | 45,596 | 51% | 1.9 | 15 | \$12,444 | 32% | 1.2 |
| PECO | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Education | Water Heating | ROB | water heater | 45,596 | 51% | 1.9 | 15 | \$12,444 | 32% | 1.2 |
| PECO | Ultrasonic Faucet Control | Manual Faucet Control | Education | Water Heating | Existing | building | 26,620 | 3.0% | 0.03 | 10 | \$4,604 | 77% | 0.1 |
| PECO | Ultrasonic Faucet Control | Manual Faucet Control | Education | Water Heating | New | building | 26,620 | 3.0% | 0.03 | 10 | \$4,604 | 77% | 0.1 |
| PECO | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Education | Water Heating | Existing | building | 26,620 | 2.2% | 0.02 | 4 | \$28 | 83% | 4.0 |
| PECO | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Education | Water Heating | New | building | 26,620 | 2.3% | 0.02 | 4 | \$28 | 83% | 4.1 |
| PECO | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Gov't | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.2 |
| PECO | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Gov't | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.2 |
| PECO | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Gov't | Cooking | Early | steamer | 51 | 46% | 0.00 | 12 | \$5,053 | 81% | 0.0 |
| PECO | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Gov't | Cooking | New | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| PECO | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Gov't | Cooking | ROB | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| PECO | Electric combination oven (Energy Star) | Standard Oven | Gov't | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 3.3 |
| PECO | Electric combination oven (Energy Star) | Standard Oven | Gov't | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 3.3 |
| PECO | Electric Convection Oven | Conventional convection oven w/ 65% efficiency | Gov't | Cooking | Early | oven | 8,641 | 37% | 0.6 | 12 | \$4,119 | 81% | 0.5 |
| PECO | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Gov't | Cooking | New | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.8 |
| PECO | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Gov't | Cooking | ROB | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.8 |
| PECO | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Gov't | Cooking | Early | fryer | 6,105 | 23% | 0.3 | 12 | \$9,241 | 86% | 0.1 |
| PECO | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Gov't | Cooking | New | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.4 |
| PECO | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Gov't | Cooking | ROB | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.4 |
| PECO | High Efficiency Griddle (ENERGY STAR) | Efficiency code minimum griddle (70% eff) | Gov't | Cooking | Early | griddle | 11,317 | 65% | 1.4 | 12 | \$4,977 | 86% | 1.0 |
| PECO | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Gov't | Cooking | New | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.3 |
| PECO | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Gov't | Cooking | ROB | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.3 |
| PECO | High Efficiency Induction Cooking | Standard Cooking | Gov't | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.2 |
| PECO | High Efficiency Induction Cooking | Standard Cooking | Gov't | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.2 |
| PECO | Active chilled beam cooling | No Active Chilled beam cooling | Gov't | Cooling Central | New | building | 3,200 | 5.3% | 0.05 | 15 | \$837 | 72% | 0.2 |
| PECO | Adding reflective roof treatment | Std color roof | Gov't | Cooling Central | Existing | building | 3,369 | 7.0% | 0.07 | 6 | \$14,313 | 82% | 0.0 |
| PECO | Adding reflective roof treatment | Std color roof | Gov't | Cooling Central | New | building | 3,369 | 7.0% | 0.07 | 6 | \$14,313 | 82% | 0.0 |
| PECO | Adding window shade film | No shade film | Gov't | Cooling Central | Existing | building | 3,369 | 1.3% | 0.4 | 10 | \$41 | 12% | 7.6 |
| PECO | Adding window shade film | No shade film | Gov't | Cooling Central | New | building | 3,369 | 1.3% | 0.4 | 10 | \$41 | 13% | 7.6 |
| PECO | Adding window shade screen | No shade screen | Gov't | Cooling Central | Existing | building | 3,369 | 1.1% | 0.01 | 10 | \$16 | 13% | 1.4 |
| PECO | Adding window shade screen | No shade screen | Gov't | Cooling Central | New | building | 3,369 | 1.0% | 0.01 | 10 | \$16 | 13% | 1.4 |
| PECO | Automated control system | Manual Controls | Gov't | Cooling Central | Existing | building | 3,369 | 17% | 0.2 | 15 | \$3,688 | 51% | 0.1 |
| PECO | Automated control system | Manual Controls | Gov't | Cooling Central | New | building | 3,369 | 17% | 0.2 | 15 | \$3,688 | 94% | 0.1 |
| PECO | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Gov't | Cooling Central | Existing | building | 3,369 | 3.4% | 0.03 | 15 | \$17,130 | 71% | 0.0 |
| PECO | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Gov't | Cooling Central | New | building | 3,369 | 1.1% | 0.01 | 15 | \$16,283 | 94% | 0.0 |
| PECO | Chilled Water Reset, Optimizer System for Chiller(s) | No Chilled Water Reset | Gov't | Cooling Central | Existing | building | 3,369 | 3.7% | 0.04 | 10 | \$15 | 69% | 5.3 |
| PECO | Chiller Tune Up Diagnostics | No Chiller Tune Up | Gov't | Cooling Central | Existing | building | 3,369 | 2.3% | 0.02 | 10 | \$3.4 | 59% | 14.7 |
| PECO | Chiller Tuneup/Diagnostics | No tuneup | Gov't | Cooling Central | Existing | building | 3,369 | 8.0% | 0.08 | 10 | \$8,601 | 59% | 0.0 |
| PECO | Chiller Tuneup/Diagnostics | No tuneup | Gov't | Cooling Central | New | building | 3,369 | 8.0% | 0.08 | 10 | \$8,601 | 59% | 0.0 |
| PECO | Cooling Tower Optimization | No Cooling Tower Optimization | Gov't | Cooling Central | Existing | building | 3,369 | 4.9% | 0.05 | 10 | \$15 | 73% | 7.0 |
| PECO | Duct Insulation, Add R8 | No Insulation | Gov't | Cooling Central | Existing | building | 3,369 | 1.4% | 0.04 | 15 | \$27 | 20% | 2.6 |
| PECO | Duct Insulation, Add R8 | No Insulation | Gov't | Cooling Central | New | building | 3,369 | 1.4% | 0.04 | 15 | \$27 | 10% | 2.6 |
| PECO | Facility Commissioning | No Facility Commissioning | Gov't | Cooling Central | New | building | 3,369 | 16% | 0.2 | 10 | \$160,767 | 89% | 0.0 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Gov't | Cooling Central | Existing | building | 3,369 | 7.0% | 0.07 | 15 | \$14,942 | 25% | 0.0 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Gov't | Cooling Central | New | building | 3,369 | 7.0% | 0.07 | 15 | \$14,942 | 35% | 0.0 |
| PECO | Hi Eff HVAC System Design | No HVAC System Design | Gov't | Cooling Central | New | building | 3,369 | 7.3% | 0.07 | 10 | \$1,183,632 | 51% | 0.0 |
| PECO | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Gov't | Cooling Central | Early | ton | 5,730 | 24% | 0.3 | 15 | \$108,550 | 88% | 0.0 |
| PECO | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Gov't | Cooling Central | New | ton | 4,684 | 6.7% | 0.07 | 15 | \$12,927 | 88% | 0.0 |
| PECO | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Gov't | Cooling Central | ROB | ton | 4,684 | 6.7% | 0.07 | 15 | \$12,927 | 88% | 0.0 |
| PECO | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Gov't | Cooling Central | Early | ton | 8,562 | 23% | 0.5 | 15 | \$140,105 | 88% | 0.0 |
| PECO | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Gov't | Cooling Central | New | ton | 6,888 | 4.9% | 0.08 | 15 | \$9,336 | 88% | 0.0 |
| PECO | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Gov't | Cooling Central | ROB | ton | 6,888 | 4.9% | 0.08 | 15 | \$9,336 | 88% | 0.0 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Gov't | Cooling Central | Early | ton | 70,089 | 26% | 4.1 | 15 | \$105,354 | 88% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|--|--|---------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Gov't | Cooling Central | New | ton | 61,068 | 15% | 2.1 | 15 | \$30,530 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Gov't | Cooling Central | ROB | ton | 61,068 | 15% | 2.1 | 15 | \$30,530 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Gov't | Cooling Central | Early | ton | 104,974 | 23% | 5.4 | 15 | \$154,107 | 88% | 0.1 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Gov't | Cooling Central | New | ton | 96,432 | 16% | 3.5 | 15 | \$27,646 | 88% | 0.4 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Gov't | Cooling Central | ROB | ton | 104,974 | 23% | 5.4 | 15 | \$27,646 | 88% | 0.7 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Gov't | Cooling Central | Early | ton | 174,342 | 23% | 8.9 | 15 | \$302,924 | 88% | 0.1 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Gov't | Cooling Central | New | ton | 157,792 | 14% | 5.1 | 15 | \$115,432 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Gov't | Cooling Central | ROB | ton | 174,342 | 23% | 8.9 | 15 | \$115,432 | 88% | 0.3 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Gov't | Cooling Central | Early | ton | 209,211 | 23% | 10.6 | 15 | \$350,154 | 88% | 0.1 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Gov't | Cooling Central | New | ton | 189,351 | 14% | 6.2 | 15 | \$120,406 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Gov't | Cooling Central | ROB | ton | 209,211 | 23% | 10.6 | 15 | \$120,406 | 88% | 0.3 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Gov't | Cooling Central | Early | ton | 46,373 | 29% | 3.1 | 15 | \$83,632 | 88% | 0.1 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Gov't | Cooling Central | New | ton | 36,008 | 8.9% | 0.7 | 15 | \$40,211 | 88% | 0.1 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Gov't | Cooling Central | ROB | ton | 46,373 | 29% | 3.1 | 15 | \$40,211 | 88% | 0.3 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Gov't | Cooling Central | Early | ton | 79,681 | 35% | 6.2 | 15 | \$132,173 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Gov't | Cooling Central | New | ton | 59,428 | 13% | 1.7 | 15 | \$39,556 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Gov't | Cooling Central | ROB | ton | 59,428 | 13% | 1.7 | 15 | \$39,556 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Gov't | Cooling Central | Early | ton | 133,034 | 39% | 11.7 | 15 | \$187,029 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Gov't | Cooling Central | New | ton | 94,851 | 15% | 3.1 | 15 | \$33,554 | 88% | 0.3 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Gov't | Cooling Central | ROB | ton | 133,034 | 39% | 11.7 | 15 | \$33,554 | 88% | 1.2 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Gov't | Cooling Central | Early | ton | 23,279 | 30% | 1.6 | 15 | \$32,398 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Gov't | Cooling Central | New | ton | 18,443 | 11% | 0.5 | 15 | \$7,188 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Gov't | Cooling Central | ROB | ton | 23,279 | 30% | 1.6 | 15 | \$7,188 | 88% | 0.8 |
| PECO | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Gov't | Cooling Central | Existing | building | 3,369 | 1.0% | 0.01 | 10 | \$41,268 | 81% | 0.0 |
| PECO | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Gov't | Cooling Central | New | building | 3,369 | 1.0% | 0.01 | 10 | \$41,268 | 81% | 0.0 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Gov't | Cooling Central | Existing | building | 3,369 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.2 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Gov't | Cooling Central | New | building | 3,369 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.3 |
| PECO | Re-Commissioning (Existing Construction) | No Re-Commissioning | Gov't | Cooling Central | Existing | building | 3,369 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |
| PECO | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Gov't | Cooling Central | Existing | building | 3,369 | 6.0% | 0.06 | 15 | \$3,285 | 26% | 0.1 |
| PECO | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Gov't | Cooling Central | New | building | 3,369 | 0.2% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| PECO | <65k BTU/hr 14 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Gov't | Cooling Unitary | Early | ton | 1,856 | 16% | 0.4 | 15 | \$1,545 | 29% | 0.3 |
| PECO | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Gov't | Cooling Unitary | New | ton | 1,681 | 7.1% | 0.1 | 15 | \$339 | 29% | 0.6 |
| PECO | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Gov't | Cooling Unitary | ROB | ton | 1,681 | 7.1% | 0.1 | 15 | \$339 | 29% | 0.6 |
| PECO | <65k BTU/hr 15 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Gov't | Cooling Unitary | Early | ton | 1,856 | 22% | 0.5 | 15 | \$1,821 | 30% | 0.4 |
| PECO | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Gov't | Cooling Unitary | New | ton | 1,681 | 13% | 0.3 | 15 | \$714 | 30% | 0.6 |
| PECO | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Gov't | Cooling Unitary | ROB | ton | 1,681 | 13% | 0.3 | 15 | \$714 | 30% | 0.6 |
| PECO | <65k BTU/hr 16 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Gov't | Cooling Unitary | Early | ton | 1,856 | 26% | 0.6 | 15 | \$2,098 | 31% | 0.4 |
| PECO | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Gov't | Cooling Unitary | New | ton | 1,681 | 19% | 0.4 | 15 | \$1,089 | 31% | 0.5 |
| PECO | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Gov't | Cooling Unitary | ROB | ton | 1,681 | 19% | 0.4 | 15 | \$1,089 | 31% | 0.5 |
| PECO | >760k min 10.2 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Gov't | Cooling Unitary | Early | ton | 46,957 | 3.7% | 2.1 | 15 | \$68,066 | 56% | 0.0 |
| PECO | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Gov't | Cooling Unitary | New | ton | 47,559 | 4.9% | 2.8 | 15 | \$6,231 | 56% | 0.7 |
| PECO | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Gov't | Cooling Unitary | ROB | ton | 47,559 | 4.9% | 2.8 | 15 | \$6,231 | 56% | 0.7 |
| PECO | 135-240k min 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Gov't | Cooling Unitary | Early | ton | 11,554 | 18% | 2.5 | 15 | \$18,135 | 79% | 0.2 |
| PECO | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Gov't | Cooling Unitary | New | ton | 10,510 | 10.0% | 1.2 | 15 | \$1,948 | 79% | 1.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---|--|---------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Gov't | Cooling Unitary | ROB | ton | 10,510 | 10.0% | 1.2 | 15 | \$1,948 | 79% | 1.0 |
| PECO | 240k-760k min 11 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Gov't | Cooling Unitary | Early | ton | 30,892 | 9.0% | 3.3 | 15 | \$44,809 | 66% | 0.1 |
| PECO | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Gov't | Cooling Unitary | New | ton | 30,969 | 9.3% | 3.4 | 15 | \$4,813 | 66% | 1.1 |
| PECO | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Gov't | Cooling Unitary | ROB | ton | 30,969 | 9.3% | 3.4 | 15 | \$4,813 | 66% | 1.1 |
| PECO | 65k-135k BTU/hr 12 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Gov't | Cooling Unitary | Early | ton | 6,811 | 17% | 1.4 | 15 | \$10,946 | 86% | 0.2 |
| PECO | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Gov't | Cooling Unitary | New | ton | 6,070 | 6.7% | 0.5 | 15 | \$1,392 | 86% | 0.5 |
| PECO | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Gov't | Cooling Unitary | ROB | ton | 6,070 | 6.7% | 0.5 | 15 | \$1,392 | 86% | 0.5 |
| PECO | Adding reflective roof treatment | Std color roof | Gov't | Cooling Unitary | Existing | building | 50,005 | 7.1% | 0.07 | 6 | \$14,313 | 82% | 0.1 |
| PECO | Adding reflective roof treatment | Std color roof | Gov't | Cooling Unitary | New | building | 50,005 | 7.1% | 0.07 | 6 | \$14,313 | 82% | 0.1 |
| PECO | Adding window shade film | No shade film | Gov't | Cooling Unitary | Existing | building | 50,005 | 1.3% | 0.4 | 10 | \$608 | 12% | 0.9 |
| PECO | Adding window shade film | No shade film | Gov't | Cooling Unitary | New | building | 50,005 | 1.3% | 0.4 | 10 | \$608 | 13% | 0.9 |
| PECO | Adding window shade screen | No shade screen | Gov't | Cooling Unitary | Existing | building | 50,005 | 1.1% | 0.01 | 10 | \$235 | 12% | 1.0 |
| PECO | Adding window shade screen | No shade screen | Gov't | Cooling Unitary | New | building | 50,005 | 1.1% | 0.01 | 10 | \$235 | 13% | 1.0 |
| PECO | Automated control system | Manual Controls | Gov't | Cooling Unitary | Existing | building | 50,005 | 17% | 0.2 | 15 | \$54,744 | 51% | 0.1 |
| PECO | Automated control system | Manual Controls | Gov't | Cooling Unitary | New | building | 50,005 | 17% | 0.2 | 15 | \$54,744 | 94% | 0.1 |
| PECO | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Gov't | Cooling Unitary | Existing | building | 50,005 | 3.4% | 0.03 | 15 | \$17,130 | 71% | 0.1 |
| PECO | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Gov't | Cooling Unitary | New | building | 50,005 | 1.1% | 0.01 | 15 | \$16,283 | 94% | 0.0 |
| PECO | Duct Insulation, Add R8 | No Insulation | Gov't | Cooling Unitary | Existing | building | 50,005 | 1.4% | 0.04 | 15 | \$397 | 20% | 1.1 |
| PECO | Duct Insulation, Add R8 | No Insulation | Gov't | Cooling Unitary | New | building | 50,005 | 1.4% | 0.04 | 15 | \$397 | 10% | 1.1 |
| PECO | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Gov't | Cooling Unitary | Existing | building | 27,327 | 13% | 0.1 | 1 | \$262 | 73% | 0.7 |
| PECO | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Gov't | Cooling Unitary | New | building | 27,327 | 13% | 0.1 | 1 | \$262 | 73% | 0.7 |
| PECO | ECM Motors for split systems | Std Shaded Pole Motor | Gov't | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 3.2 |
| PECO | ECM Motors for split systems | Std Shaded Pole Motor | Gov't | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 3.2 |
| PECO | Facility Commissioning | No Facility Commissioning | Gov't | Cooling Unitary | New | building | 50,005 | 16% | 0.2 | 10 | \$1,483 | 89% | 2.3 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Gov't | Cooling Unitary | Existing | building | 50,005 | 7.1% | 0.07 | 15 | \$221,812 | 25% | 0.0 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Gov't | Cooling Unitary | New | building | 50,005 | 7.1% | 0.07 | 15 | \$221,812 | 35% | 0.0 |
| PECO | Hi Eff HVAC System Design | No HVAC Design | Gov't | Cooling Unitary | New | building | 50,005 | 7.3% | 0.07 | 10 | \$14,942 | 51% | 0.1 |
| PECO | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Gov't | Cooling Unitary | Existing | building | 50,005 | 5.0% | 0.05 | 5 | \$225 | 59% | 2.5 |
| PECO | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Gov't | Cooling Unitary | Existing | building | 50,005 | 1.1% | 0.01 | 10 | \$44,351 | 86% | 0.0 |
| PECO | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Gov't | Cooling Unitary | New | building | 50,005 | 1.1% | 0.01 | 10 | \$44,351 | 86% | 0.0 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) | Gov't | Cooling Unitary | Existing | building | 50,005 | 2.0% | 0.02 | 11 | \$286 | 49% | 1.6 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Gov't | Cooling Unitary | New | building | 50,005 | 1.7% | 0.02 | 11 | \$146 | 49% | 2.7 |
| PECO | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Gov't | Cooling Unitary | Early | unit | 554 | 19% | 0.02 | 15 | \$849 | 85% | 0.1 |
| PECO | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Gov't | Cooling Unitary | New | unit | 560 | 20% | 0.03 | 15 | \$356 | 85% | 0.3 |
| PECO | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Gov't | Cooling Unitary | ROB | unit | 560 | 20% | 0.03 | 15 | \$356 | 85% | 0.3 |
| PECO | Re-Commissioning (Existing Construction) | No Re-Commissioning | Gov't | Cooling Unitary | Existing | building | 50,005 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.2 |
| PECO | Room AC (w/ louvered sides) | Existing efficiency Room AC in Pennsylvania (2000 Federal Standards) | Gov't | Cooling Unitary | Early | ton | 1,569 | 13% | 0.05 | 9 | \$348 | 82% | 0.3 |
| PECO | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Gov't | Cooling Unitary | New | ton | 1,422 | 4.5% | 0.01 | 9 | \$17 | 82% | 2.0 |
| PECO | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Gov't | Cooling Unitary | ROB | ton | 1,422 | 4.5% | 0.01 | 9 | \$17 | 82% | 2.0 |
| PECO | Wall Insualtions (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Gov't | Cooling Unitary | Existing | building | 50,005 | 6.0% | 0.06 | 15 | \$3,285 | 26% | 0.5 |
| PECO | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Gov't | Cooling Unitary | New | building | 50,005 | 0.2% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| PECO | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Gov't | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 1.1 |
| PECO | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Gov't | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.4 |
| PECO | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Gov't | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.4 |
| PECO | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Gov't | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 80% | 0.2 |
| PECO | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Gov't | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 80% | 0.2 |
| PECO | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Gov't | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 80% | 0.2 |
| PECO | LED exterior lighting | 250 Watt Incandescent | Gov't | Ext. Lighting | ROB | measure | 282 | 83% | 0.04 | 15 | \$104 | 89% | 1.5 |
| PECO | LED exterior lighting | 250 Watt Incandescent | Gov't | Ext. Lighting | ROB | measure | 282 | 83% | 0.04 | 15 | \$104 | 89% | 1.5 |
| PECO | LED exterior lighting | 250 Watt Incandescent | Gov't | Ext. Lighting | ROB | measure | 282 | 83% | 0.04 | 15 | \$104 | 89% | 1.5 |
| PECO | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Gov't | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 75% | 0.3 |
| PECO | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Gov't | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 75% | 0.2 |
| PECO | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Gov't | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.6 |
| PECO | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Gov't | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.0 |
| PECO | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Gov't | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.6 |
| PECO | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Gov't | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.0 |
| PECO | Adding reflective roof treatment | Std color roof | Gov't | Heat Pump | Existing | building | 5,195 | 6.9% | 0.07 | 6 | \$14,313 | 82% | 0.0 |
| PECO | Adding reflective roof treatment | Std color roof | Gov't | Heat Pump | New | building | 5,195 | 6.9% | 0.07 | 6 | \$14,313 | 82% | 0.0 |
| PECO | Adding window shade film | No shade film | Gov't | Heat Pump | Existing | building | 5,195 | 3.9% | 0.4 | 10 | \$63 | 12% | 5.9 |
| PECO | Adding window shade film | No shade film | Gov't | Heat Pump | New | building | 5,195 | 3.9% | 0.4 | 10 | \$63 | 12% | 5.9 |
| PECO | Adding window shade screen | No shade screen | Gov't | Heat Pump | Existing | building | 5,195 | 0.3% | 0.01 | 10 | \$8.2 | 12% | 1.8 |
| PECO | Adding window shade screen | No shade screen | Gov't | Heat Pump | New | building | 5,195 | 0.3% | 0.01 | 10 | \$8.2 | 12% | 1.8 |
| PECO | Automated control system | Manual Controls | Gov't | Heat Pump | Existing | building | 5,195 | 17% | 0.2 | 15 | \$5,687 | 51% | 0.1 |
| PECO | Automated control system | Manual Controls | Gov't | Heat Pump | New | building | 5,195 | 17% | 0.2 | 15 | \$5,687 | 94% | 0.1 |
| PECO | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Gov't | Heat Pump | Existing | building | 5,195 | 3.4% | 0.03 | 15 | \$17,130 | 71% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|--|--|---------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Gov't | Heat Pump | New | building | 5,195 | 1.1% | 0.01 | 15 | \$16,283 | 94% | 0.0 |
| PECO | Duct Insulation, Add R8 | No Insulation | Gov't | Heat Pump | Existing | building | 5,195 | 4.0% | 0.04 | 15 | \$41 | 12% | 3.9 |
| PECO | Duct Insulation, Add R8 | No Insulation | Gov't | Heat Pump | New | building | 5,195 | 4.0% | 0.04 | 15 | \$41 | 6% | 3.9 |
| PECO | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Gov't | Heat Pump | Early | heat pump | 2,887 | 12% | 0.08 | 15 | \$4,070 | 83% | 0.1 |
| PECO | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Gov't | Heat Pump | New | heat pump | 2,748 | 7.8% | 0.05 | 15 | \$1,097 | 83% | 0.2 |
| PECO | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Gov't | Heat Pump | ROB | heat pump | 2,748 | 7.8% | 0.05 | 15 | \$1,097 | 83% | 0.2 |
| PECO | Facility Commissioning | No Facility Commissioning | Gov't | Heat Pump | New | building | 5,195 | 16% | 0.2 | 10 | \$160,767 | 89% | 0.0 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Gov't | Heat Pump | Existing | building | 5,195 | 7.0% | 0.07 | 15 | \$23,043 | 25% | 0.0 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Gov't | Heat Pump | New | building | 5,195 | 7.0% | 0.07 | 15 | \$23,043 | 35% | 0.0 |
| PECO | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Gov't | Heat Pump | Early | heat pump | 29,864 | 17% | 1.1 | 15 | \$91,117 | 19% | 0.0 |
| PECO | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Gov't | Heat Pump | New | heat pump | 28,731 | 13% | 0.9 | 15 | \$33,927 | 19% | 0.1 |
| PECO | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Gov't | Heat Pump | ROB | heat pump | 28,731 | 13% | 0.9 | 15 | \$33,927 | 19% | 0.1 |
| PECO | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Gov't | Heat Pump | Early | heat pump | 29,864 | 17% | 1.1 | 15 | \$58,356 | 19% | 0.1 |
| PECO | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Gov't | Heat Pump | New | heat pump | 28,731 | 13% | 0.9 | 15 | \$1,167 | 19% | 2.6 |
| PECO | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Gov't | Heat Pump | ROB | heat pump | 28,731 | 13% | 0.9 | 15 | \$1,167 | 19% | 2.6 |
| PECO | Hi Eff HVAC System Design | No HVAC Design | Gov't | Heat Pump | New | building | 5,195 | 7.3% | 0.07 | 10 | \$1,183,632 | 51% | 0.0 |
| PECO | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Gov't | Heat Pump | Early | heat pump | 7,700 | 17% | 0.3 | 12 | \$4,298 | 81% | 0.2 |
| PECO | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Gov't | Heat Pump | Early | heat pump | 7,700 | 25% | 0.4 | 12 | \$5,883 | 81% | 0.2 |
| PECO | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Gov't | Heat Pump | New | heat pump | 7,327 | 12% | 0.2 | 12 | \$852 | 81% | 0.7 |
| PECO | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Gov't | Heat Pump | New | heat pump | 7,327 | 21% | 0.4 | 12 | \$2,437 | 81% | 0.4 |
| PECO | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Gov't | Heat Pump | ROB | heat pump | 7,327 | 12% | 0.2 | 12 | \$852 | 81% | 0.7 |
| PECO | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Gov't | Heat Pump | ROB | heat pump | 7,327 | 21% | 0.4 | 12 | \$2,437 | 81% | 0.4 |
| PECO | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Gov't | Heat Pump | Existing | building | 5,195 | 1.0% | 0.01 | 10 | \$39,486 | 81% | 0.0 |
| PECO | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Gov't | Heat Pump | New | building | 5,195 | 1.0% | 0.01 | 10 | \$39,486 | 81% | 0.0 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Gov't | Heat Pump | Existing | building | 5,195 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.3 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Gov't | Heat Pump | New | building | 5,195 | 2.1% | 0.02 | 11 | \$146 | 49% | 0.5 |
| PECO | Re-Commissioning (Existing Construction) | No Re-Commissioning | Gov't | Heat Pump | Existing | building | 5,195 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |
| PECO | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Gov't | Heat Pump | Existing | building | 5,195 | 6.0% | 0.06 | 15 | \$3,285 | 26% | 0.1 |
| PECO | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Gov't | Heat Pump | New | building | 5,195 | 0.2% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| PECO | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Gov't | Heat Pump | Early | heat pump | 12,299 | 34% | 0.9 | 15 | \$35,347 | 28% | 0.1 |
| PECO | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Gov't | Heat Pump | New | heat pump | 11,655 | 30% | 0.8 | 15 | \$15,739 | 28% | 0.2 |
| PECO | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Gov't | Heat Pump | ROB | heat pump | 11,655 | 30% | 0.8 | 15 | \$15,739 | 28% | 0.2 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Gov't | High Bay Lighting | Early | Fixture | 299 | 9.6% | 0.01 | 13 | \$850 | 39% | 0.0 |
| PECO | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Gov't | High Bay Lighting | Early | Fixture | 299 | 9.5% | 0.01 | 13 | \$850 | 28% | 0.0 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Gov't | High Bay Lighting | Early | Fixture | 461 | 41% | 0.04 | 13 | \$850 | 36% | 0.2 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Gov't | High Bay Lighting | New | Fixture | 227 | 9.6% | 0.00 | 13 | \$372 | 39% | 0.0 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Gov't | High Bay Lighting | New | Fixture | 211 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Gov't | High Bay Lighting | New | Fixture | 350 | 41% | 0.03 | 13 | \$397 | 36% | 0.3 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Gov't | High Bay Lighting | ROB | Fixture | 299 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Gov't | High Bay Lighting | ROB | Fixture | 278 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Gov't | High Bay Lighting | ROB | Fixture | 461 | 41% | 0.04 | 13 | \$397 | 36% | 0.3 |
| PECO | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Gov't | High Bay Lighting | Early | Fixture | 580 | 19% | 0.02 | 13 | \$851 | 38% | 0.1 |
| PECO | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Gov't | High Bay Lighting | Early | Fixture | 587 | 20% | 0.02 | 13 | \$851 | 38% | 0.1 |
| PECO | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | Early | Fixture | 1,708 | 73% | 0.2 | 13 | \$851 | 38% | 1.0 |
| PECO | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Gov't | High Bay Lighting | New | Fixture | 441 | 19% | 0.02 | 13 | \$372 | 38% | 0.2 |
| PECO | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | New | Fixture | 1,298 | 73% | 0.2 | 13 | \$383 | 38% | 1.7 |
| PECO | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Gov't | High Bay Lighting | ROB | Fixture | 580 | 19% | 0.02 | 13 | \$372 | 38% | 0.2 |
| PECO | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | ROB | Fixture | 1,708 | 73% | 0.2 | 13 | \$383 | 38% | 2.2 |
| PECO | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Gov't | High Bay Lighting | Early | Fixture | 580 | 25% | 0.03 | 13 | \$554 | 29% | 0.2 |
| PECO | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Gov't | High Bay Lighting | Early | Fixture | 569 | 23% | 0.03 | 13 | \$554 | 28% | 0.2 |
| PECO | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | Early | Fixture | 1,708 | 74% | 0.2 | 13 | \$554 | 36% | 1.6 |
| PECO | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Gov't | High Bay Lighting | New | Fixture | 441 | 25% | 0.02 | 13 | \$75 | 29% | 1.0 |
| PECO | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | New | Fixture | 1,298 | 74% | 0.2 | 13 | \$86 | 36% | 7.7 |
| PECO | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Gov't | High Bay Lighting | ROB | Fixture | 580 | 25% | 0.03 | 13 | \$75 | 29% | 1.3 |
| PECO | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | ROB | Fixture | 1,708 | 74% | 0.2 | 13 | \$86 | 36% | 10.2 |
| PECO | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Gov't | High Bay Lighting | Early | Fixture | 151 | 0.2% | 0.00 | 13 | \$835 | 38% | 0.0 |
| PECO | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Gov't | High Bay Lighting | Early | Fixture | 326 | 54% | 0.03 | 13 | \$835 | 38% | 0.1 |
| PECO | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Gov't | High Bay Lighting | New | Fixture | 248 | 54% | 0.03 | 13 | \$382 | 38% | 0.2 |
| PECO | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Gov't | High Bay Lighting | ROB | Fixture | 326 | 54% | 0.03 | 13 | \$382 | 38% | 0.3 |
| PECO | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Gov't | High Bay Lighting | Early | Fixture | 739 | 18% | 0.03 | 13 | \$487 | 25% | 0.2 |
| PECO | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Gov't | High Bay Lighting | Early | Fixture | 773 | 22% | 0.03 | 13 | \$487 | 28% | 0.2 |
| PECO | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | Early | Fixture | 1,708 | 65% | 0.2 | 13 | \$487 | 36% | 1.6 |
| PECO | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Gov't | High Bay Lighting | New | Fixture | 562 | 18% | 0.02 | 13 | \$16 | 25% | 4.3 |
| PECO | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | New | Fixture | 1,298 | 65% | 0.2 | 13 | \$18 | 36% | 31.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---|---|---------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Gov't | High Bay Lighting | ROB | Fixture | 739 | 18% | 0.03 | 13 | \$16 | 25% | 5.7 |
| PECO | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | ROB | Fixture | 1,708 | 65% | 0.2 | 13 | \$18 | 36% | 41.2 |
| PECO | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Gov't | High Bay Lighting | Early | Fixture | 739 | 1.5% | 0.00 | 13 | \$557 | 19% | 0.0 |
| PECO | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Gov't | High Bay Lighting | Early | Fixture | 761 | 4.3% | 0.01 | 13 | \$557 | 19% | 0.0 |
| PECO | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | Early | Fixture | 1,708 | 57% | 0.2 | 13 | \$557 | 19% | 1.2 |
| PECO | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Gov't | High Bay Lighting | New | Fixture | 562 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| PECO | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | New | Fixture | 1,298 | 57% | 0.1 | 13 | \$88 | 19% | 5.8 |
| PECO | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Gov't | High Bay Lighting | ROB | Fixture | 739 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| PECO | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | ROB | Fixture | 1,708 | 57% | 0.2 | 13 | \$88 | 19% | 7.6 |
| PECO | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Gov't | High Bay Lighting | Early | Fixture | 314 | 29% | 0.01 | 13 | \$492 | 71% | 0.1 |
| PECO | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Gov't | High Bay Lighting | Early | Fixture | 262 | 15% | 0.01 | 13 | \$492 | 95% | 0.1 |
| PECO | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Gov't | High Bay Lighting | Early | Fixture | 390 | 43% | 0.02 | 13 | \$492 | 95% | 0.2 |
| PECO | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Gov't | High Bay Lighting | Early | Fixture | 361 | 38% | 0.02 | 13 | \$492 | 95% | 0.2 |
| PECO | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Gov't | High Bay Lighting | New | Fixture | 199 | 15% | 0.00 | 13 | \$25 | 95% | 0.8 |
| PECO | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Gov't | High Bay Lighting | New | Fixture | 296 | 43% | 0.02 | 13 | \$51 | 95% | 1.6 |
| PECO | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Gov't | High Bay Lighting | ROB | Fixture | 262 | 15% | 0.01 | 13 | \$25 | 95% | 1.0 |
| PECO | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Gov't | High Bay Lighting | ROB | Fixture | 390 | 43% | 0.02 | 13 | \$51 | 95% | 2.1 |
| PECO | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Gov't | High Bay Lighting | Early | lamp | 114 | 16% | 0.00 | 9 | \$7.7 | 99% | 1.2 |
| PECO | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Gov't | High Bay Lighting | New | lamp | 68 | 13% | 0.00 | 9 | \$1.6 | 91% | 2.6 |
| PECO | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Gov't | High Bay Lighting | ROB | lamp | 110 | 13% | 0.00 | 9 | \$1.6 | 91% | 4.3 |
| PECO | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Gov't | High Bay Lighting | Early | Fixture | 1,748 | 23% | 0.08 | 13 | \$613 | 5% | 0.4 |
| PECO | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Gov't | High Bay Lighting | Early | Fixture | 1,373 | 1.6% | 0.00 | 13 | \$613 | 28% | 0.0 |
| PECO | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | Early | Fixture | 3,417 | 60% | 0.4 | 13 | \$613 | 18% | 2.3 |
| PECO | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Gov't | High Bay Lighting | New | Fixture | 1,329 | 23% | 0.06 | 13 | \$96 | 5% | 2.2 |
| PECO | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Gov't | High Bay Lighting | ROB | Fixture | 1,748 | 23% | 0.08 | 13 | \$96 | 5% | 2.8 |
| PECO | Auto Off Time Switch | Lighting w/ No Controls | Gov't | High Bay Lighting | Existing | building | 336 | 24% | 0.2 | 8 | \$1,034 | 13% | 0.2 |
| PECO | Auto Off Time Switch | Lighting w/ No Controls | Gov't | High Bay Lighting | New | building | 336 | 6.9% | 0.07 | 8 | \$1,034 | 0% | 0.1 |
| PECO | Central Lighting Control System | Lighting w/ No Controls | Gov't | High Bay Lighting | Existing | building | 336 | 38% | 0.4 | 8 | \$1,034 | 13% | 0.3 |
| PECO | Central Lighting Control System | Lighting w/ No Controls | Gov't | High Bay Lighting | New | building | 336 | 14% | 0.1 | 8 | \$1,034 | 13% | 0.1 |
| PECO | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Gov't | High Bay Lighting | New | building | 336 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.0 |
| PECO | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Gov't | High Bay Lighting | New | building | 336 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |
| PECO | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Gov't | High Bay Lighting | New | building | 336 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| PECO | Indoor Daylight Sensors | Lighting w/ No Controls | Gov't | High Bay Lighting | Existing | building | 336 | 28% | 0.3 | 8 | \$5,088 | 13% | 0.0 |
| PECO | Indoor Daylight Sensors | Lighting w/ No Controls | Gov't | High Bay Lighting | New | building | 336 | 4.0% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| PECO | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Gov't | High Bay Lighting | Early | Fixture | 1,748 | 92% | 0.3 | 13 | \$1,916 | 95% | 0.6 |
| PECO | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | Early | Fixture | 3,417 | 96% | 0.6 | 13 | \$1,916 | 95% | 1.2 |
| PECO | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Gov't | High Bay Lighting | New | Fixture | 1,329 | 92% | 0.2 | 13 | \$1,468 | 95% | 0.6 |
| PECO | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | New | Fixture | 2,597 | 96% | 0.5 | 13 | \$1,149 | 95% | 1.5 |
| PECO | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Gov't | High Bay Lighting | ROB | Fixture | 1,748 | 92% | 0.3 | 13 | \$1,468 | 95% | 0.8 |
| PECO | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | ROB | Fixture | 3,417 | 96% | 0.6 | 13 | \$1,149 | 95% | 2.0 |
| PECO | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Gov't | High Bay Lighting | Early | Fixture | 580 | 67% | 0.07 | 13 | \$960 | 95% | 0.3 |
| PECO | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Gov't | High Bay Lighting | Early | Fixture | 1,708 | 89% | 0.3 | 13 | \$960 | 95% | 1.1 |
| PECO | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Gov't | High Bay Lighting | Early | Fixture | 469 | 59% | 0.05 | 13 | \$960 | 95% | 0.2 |
| PECO | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Gov't | High Bay Lighting | New | Fixture | 441 | 67% | 0.06 | 13 | \$480 | 95% | 0.4 |
| PECO | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Gov't | High Bay Lighting | New | Fixture | 1,298 | 89% | 0.2 | 13 | \$491 | 95% | 1.6 |
| PECO | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Gov't | High Bay Lighting | New | Fixture | 356 | 59% | 0.04 | 13 | \$406 | 95% | 0.4 |
| PECO | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Gov't | High Bay Lighting | ROB | Fixture | 580 | 67% | 0.07 | 13 | \$480 | 95% | 0.6 |
| PECO | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Gov't | High Bay Lighting | ROB | Fixture | 1,708 | 89% | 0.3 | 13 | \$491 | 95% | 2.1 |
| PECO | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Gov't | High Bay Lighting | ROB | Fixture | 469 | 59% | 0.05 | 13 | \$406 | 95% | 0.5 |
| PECO | Occupancy Sensor | Lighting w/ No Controls | Gov't | High Bay Lighting | Existing | building | 336 | 24% | 0.2 | 8 | \$1,558 | 11% | 0.1 |
| PECO | Occupancy Sensor | Lighting w/ No Controls | Gov't | High Bay Lighting | New | building | 336 | 6.9% | 0.07 | 8 | \$1,558 | 0% | 0.0 |
| PECO | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Gov't | High Bay Lighting | Existing | building | 336 | 28% | 0.3 | 8 | \$5,088 | 11% | 0.0 |
| PECO | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Gov't | High Bay Lighting | New | building | 336 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| PECO | Time Clock Control | Lighting w/ No Controls | Gov't | High Bay Lighting | Existing | building | 336 | 28% | 0.3 | 8 | \$1,034 | 13% | 0.2 |
| PECO | Time Clock Control | Lighting w/ No Controls | Gov't | High Bay Lighting | New | building | 336 | 4.1% | 0.04 | 8 | \$1,034 | 0% | 0.0 |
| PECO | Auto Off Time Switch | Lighting w/ No Controls | Gov't | Lin. Fluor. Lighting | Existing | building | 13,221 | 24% | 0.2 | 8 | \$1,034 | 13% | 1.2 |
| PECO | Auto Off Time Switch | Lighting w/ No Controls | Gov't | Lin. Fluor. Lighting | New | building | 13,221 | 7.0% | 0.07 | 8 | \$1,034 | 0% | 0.3 |
| PECO | Central Lighting Control System | Lighting w/ No Controls | Gov't | Lin. Fluor. Lighting | Existing | building | 13,221 | 38% | 0.4 | 8 | \$1,034 | 12% | 1.9 |
| PECO | Central Lighting Control System | Lighting w/ No Controls | Gov't | Lin. Fluor. Lighting | New | building | 13,221 | 14% | 0.1 | 8 | \$1,034 | 12% | 0.7 |
| PECO | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Gov't | Lin. Fluor. Lighting | New | building | 13,221 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.0 |
| PECO | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Gov't | Lin. Fluor. Lighting | New | building | 13,221 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |
| PECO | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Gov't | Lin. Fluor. Lighting | New | building | 13,221 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| PECO | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Gov't | Lin. Fluor. Lighting | Early | Lamp | 229 | 38% | 0.01 | 9 | \$7.3 | 94% | 5.7 |
| PECO | Indoor Daylight Sensors | Lighting w/ No Controls | Gov't | Lin. Fluor. Lighting | Existing | building | 13,221 | 28% | 0.3 | 8 | \$5,088 | 13% | 0.3 |
| PECO | Indoor Daylight Sensors | Lighting w/ No Controls | Gov't | Lin. Fluor. Lighting | New | building | 13,221 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | Early | Lamp | 38 | 19% | 0.00 | 15 | \$35 | 94% | 0.2 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 40W T12 Lamp, Magnetic Ballast | Gov't | Lin. Fluor. Lighting | Early | Lamp | 83 | 63% | 0.01 | 15 | \$35 | 94% | 1.1 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | Early | Lamp | 46 | 34% | 0.00 | 15 | \$35 | 94% | 0.3 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | Early | Lamp | 45 | 32% | 0.00 | 15 | \$35 | 94% | 0.3 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | New | Lamp | 29 | 19% | 0.00 | 15 | \$28 | 94% | 0.1 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | New | Lamp | 34 | 32% | 0.00 | 15 | \$29 | 94% | 0.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|--|--|---------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | New | Lamp | 35 | 34% | 0.00 | 15 | \$22 | 94% | 0.4 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | New | Lamp | 34 | 32% | 0.00 | 15 | \$29 | 94% | 0.3 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | ROB | Lamp | 38 | 19% | 0.00 | 15 | \$28 | 94% | 0.2 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | ROB | Lamp | 45 | 32% | 0.00 | 15 | \$29 | 94% | 0.4 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | ROB | Lamp | 46 | 34% | 0.00 | 15 | \$22 | 94% | 0.6 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | ROB | Lamp | 45 | 32% | 0.00 | 15 | \$29 | 94% | 0.4 |
| PECO | Occupancy Sensor | Lighting w/ No Controls | Gov't | Lin. Fluor. Lighting | Existing | building | 13,221 | 24% | 0.2 | 8 | \$1,558 | 12% | 0.8 |
| PECO | Occupancy Sensor | Lighting w/ No Controls | Gov't | Lin. Fluor. Lighting | New | building | 13,221 | 7.0% | 0.07 | 8 | \$1,558 | 0% | 0.2 |
| PECO | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Gov't | Lin. Fluor. Lighting | Existing | building | 13,221 | 28% | 0.3 | 8 | \$5,088 | 11% | 0.3 |
| PECO | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Gov't | Lin. Fluor. Lighting | New | building | 13,221 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 40W T12 w/ Magnetic Ballast | Gov't | Lin. Fluor. Lighting | Early | Lamp | 229 | 54% | 0.02 | 9 | \$9.1 | 94% | 6.6 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | Early | Lamp | 147 | 28% | 0.01 | 9 | \$9.1 | 24% | 2.2 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | Early | Lamp | 142 | 26% | 0.01 | 9 | \$9.1 | 94% | 2.0 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | New | Lamp | 108 | 26% | 0.00 | 9 | \$2.5 | 94% | 5.3 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | New | Lamp | 108 | 26% | 0.00 | 9 | \$2.5 | 94% | 5.3 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | New | Lamp | 112 | 28% | 0.00 | 9 | \$2.5 | 24% | 6.0 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | New | Lamp | 108 | 26% | 0.00 | 9 | \$2.5 | 94% | 5.3 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | ROB | Lamp | 142 | 26% | 0.01 | 9 | \$2.5 | 94% | 7.0 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | ROB | Lamp | 142 | 26% | 0.01 | 9 | \$2.5 | 94% | 7.0 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | ROB | Lamp | 147 | 28% | 0.01 | 9 | \$2.5 | 24% | 7.9 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | ROB | Lamp | 142 | 26% | 0.01 | 9 | \$2.5 | 94% | 7.0 |
| PECO | T8 Lamp (any length) Electronic Ballast | Standard T12 lamp (any length) | Gov't | Lin. Fluor. Lighting | Early | Lamp | 270 | 42% | 0.02 | 9 | \$14 | 94% | 3.9 |
| PECO | Time Clock Control | Lighting w/ No Controls | Gov't | Lin. Fluor. Lighting | Existing | building | 13,221 | 28% | 0.3 | 8 | \$1,034 | 14% | 1.4 |
| PECO | Time Clock Control | Lighting w/ No Controls | Gov't | Lin. Fluor. Lighting | New | building | 13,221 | 4.1% | 0.04 | 8 | \$1,034 | 0% | 0.2 |
| PECO | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | Early | motor | 3,501 | 3.6% | 0.01 | 15 | \$374 | 76% | 0.2 |
| PECO | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | Early | motor | 3,501 | 3.6% | 0.01 | 15 | \$374 | 76% | 0.2 |
| PECO | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | Early | motor | 3,501 | 3.6% | 0.01 | 15 | \$374 | 76% | 0.2 |
| PECO | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | Early | motor | 3,501 | 3.6% | 0.01 | 15 | \$374 | 76% | 0.2 |
| PECO | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | Early | motor | 3,501 | 3.6% | 0.01 | 15 | \$374 | 76% | 0.2 |
| PECO | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | New | motor | 3,394 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| PECO | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | New | motor | 3,394 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| PECO | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | New | motor | 3,394 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| PECO | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | New | motor | 3,394 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| PECO | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | New | motor | 3,394 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| PECO | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | ROB | motor | 3,394 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| PECO | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | ROB | motor | 3,394 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| PECO | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | ROB | motor | 3,394 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| PECO | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | ROB | motor | 3,394 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| PECO | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | ROB | motor | 3,394 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| PECO | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | ROB | motor | 3,394 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| PECO | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | Early | motor | 5,161 | 3.1% | 0.02 | 15 | \$402 | 76% | 0.3 |
| PECO | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | Early | motor | 5,161 | 3.1% | 0.02 | 15 | \$402 | 76% | 0.3 |
| PECO | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | Early | motor | 5,161 | 3.1% | 0.02 | 15 | \$402 | 76% | 0.3 |
| PECO | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | Early | motor | 5,161 | 3.1% | 0.02 | 15 | \$402 | 76% | 0.3 |
| PECO | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | Early | motor | 5,161 | 3.1% | 0.02 | 15 | \$402 | 76% | 0.3 |
| PECO | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | New | motor | 5,032 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.3 |
| PECO | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | New | motor | 5,032 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.3 |
| PECO | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | New | motor | 5,032 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.3 |
| PECO | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | New | motor | 5,032 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.3 |
| PECO | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | ROB | motor | 5,032 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.3 |
| PECO | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | ROB | motor | 5,032 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.3 |
| PECO | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | ROB | motor | 5,032 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.3 |
| PECO | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | ROB | motor | 5,032 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.3 |
| PECO | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | ROB | motor | 5,032 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.3 |
| PECO | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | ROB | motor | 5,032 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.3 |
| PECO | 10 HP Motor, Ultra-PE | 10 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | Early | motor | 32,316 | 2.6% | 0.09 | 15 | \$962 | 85% | 0.6 |
| PECO | 10 HP Motor, Ultra-PE | 10 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | Early | motor | 32,316 | 2.6% | 0.09 | 15 | \$962 | 85% | 0.6 |
| PECO | 10 HP Motor, Ultra-PE | 10 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | Early | motor | 32,316 | 2.6% | 0.09 | 15 | \$962 | 85% | 0.6 |
| PECO | 10 HP Motor, Ultra-PE | 10 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | Early | motor | 32,316 | 2.6% | 0.09 | 15 | \$962 | 85% | 0.6 |
| PECO | 10 HP Motor, Ultra-PE | 10 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | New | motor | 31,642 | 0.5% | 0.02 | 15 | \$114 | 85% | 1.0 |
| PECO | 10 HP Motor, Ultra-PE | 10 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | New | motor | 31,642 | 0.5% | 0.02 | 15 | \$114 | 85% | 1.0 |
| PECO | 10 HP Motor, Ultra-PE | 10 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | New | motor | 31,642 | 0.5% | 0.02 | 15 | \$114 | 85% | 1.0 |
| PECO | 10 HP Motor, Ultra-PE | 10 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | New | motor | 31,642 | 0.5% | 0.02 | 15 | \$114 | 85% | 1.0 |
| PECO | 10 HP Motor, Ultra-PE | 10 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | ROB | motor | 31,642 | 0.5% | 0.02 | 15 | \$114 | 85% | 1.0 |
| PECO | 10 HP Motor, Ultra-PE | 10 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | ROB | motor | 31,642 | 0.5% | 0.02 | 15 | \$114 | 85% | 1.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---|---|---------|---------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | Early | motor | 230,975 | 1.3% | 0.3 | 15 | \$3,955 | 61% | 0.5 |
| PECO | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | Early | motor | 230,975 | 1.3% | 0.3 | 15 | \$3,955 | 61% | 0.5 |
| PECO | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | New | motor | 229,071 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.4 |
| PECO | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | New | motor | 229,071 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.4 |
| PECO | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | New | motor | 229,071 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.4 |
| PECO | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | New | motor | 229,071 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.4 |
| PECO | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | ROB | motor | 229,071 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.4 |
| PECO | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | ROB | motor | 229,071 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.4 |
| PECO | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | ROB | motor | 229,071 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.4 |
| PECO | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | ROB | motor | 229,071 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.4 |
| PECO | ASD HVAC Fan | Std. HVAC Fan | Gov't | Motors | New | measure | 18,873 | 9.1% | 0.2 | 15 | \$55,530 | 85% | 0.0 |
| PECO | ASD HVAC Fan | Std. HVAC Fan | Gov't | Motors | ROB | measure | 18,873 | 9.1% | 0.2 | 15 | \$55,530 | 85% | 0.0 |
| PECO | CO sensors for parking garage exhaust fans | No CO Sensors | Gov't | Motors | New | building | 3,509 | 28% | 0.3 | 8 | \$303 | 4% | 1.7 |
| PECO | demand controlled ventilation | Absence of Demand Controlled Ventilation | Gov't | Motors | Early | measure | 18,873 | 5.9% | 0.1 | 10 | \$127,693 | 92% | 0.0 |
| PECO | demand controlled ventilation | Office building thermostat | Gov't | Motors | New | measure | 18,873 | 5.9% | 0.1 | 10 | \$95,339 | 92% | 0.0 |
| PECO | demand controlled ventilation | Office building thermostat | Gov't | Motors | ROB | measure | 18,873 | 5.9% | 0.1 | 10 | \$95,339 | 92% | 0.0 |
| PECO | Downsizing motor during retrofit | Larger hp standard motor | Gov't | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 23.7 |
| PECO | Downsizing motor during retrofit | Larger hp standard motor | Gov't | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 24.1 |
| PECO | Downsizing motor during retrofit | Larger hp standard motor | Gov't | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 24.7 |
| PECO | Downsizing motor during retrofit | Larger hp standard motor | Gov't | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 25.5 |
| PECO | Downsizing motor during retrofit | Larger hp standard motor | Gov't | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 25.6 |
| PECO | Downsizing motor during retrofit | Larger hp standard motor | Gov't | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 23.4 |
| PECO | Downsizing motor during retrofit | Larger hp standard motor | Gov't | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 23.8 |
| PECO | Downsizing motor during retrofit | Larger hp standard motor | Gov't | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 24.7 |
| PECO | Downsizing motor during retrofit | Larger hp standard motor | Gov't | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 25.2 |
| PECO | Downsizing motor during retrofit | Larger hp standard motor | Gov't | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 25.7 |
| PECO | Energy Efficient Laboratory Fume Hood | Std. Fume Hood | Gov't | Motors | New | measure | 22,500 | 1.1% | 0.03 | 15 | \$111 | 17% | 1.4 |
| PECO | Energy Efficient Laboratory Fume Hood | Std. Fume Hood | Gov't | Motors | ROB | measure | 22,500 | 1.1% | 0.03 | 15 | \$111 | 17% | 1.4 |
| PECO | Escalator Motor Controller | Constant power control | Gov't | Motors | New | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 45% | 6.5 |
| PECO | Escalator Motor Controller | Constant power control | Gov't | Motors | ROB | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 45% | 6.5 |
| PECO | Fan Motor - correct sizing | Incorrect Fan Motor Sizing | Gov't | Motors | ROB | measure | 18,873 | 2.9% | 0.06 | 15 | \$36,818 | 92% | 0.0 |
| PECO | Variable Speed Drive Control, 15HP | Existing Motors w/out VSD Drive | Gov't | Motors | Early | motor | 47,828 | 70% | 3.7 | 15 | \$731 | 86% | 30.6 |
| PECO | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Gov't | Motors | New | motor | 46,799 | 72% | 3.7 | 15 | \$731 | 86% | 30.6 |
| PECO | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Gov't | Motors | ROB | motor | 46,799 | 72% | 3.7 | 15 | \$731 | 86% | 30.6 |
| PECO | Variable Speed Drive Control, 40HP | Existing Motors w/out VSD Drive | Gov't | Motors | Early | motor | 124,799 | 71% | 9.8 | 15 | \$4,666 | 86% | 12.6 |
| PECO | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Gov't | Motors | New | motor | 123,340 | 72% | 9.8 | 15 | \$4,666 | 86% | 12.6 |
| PECO | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Gov't | Motors | ROB | motor | 123,340 | 72% | 9.8 | 15 | \$4,666 | 86% | 12.6 |
| PECO | Variable Speed Drive Control, 5HP | Existing Motors w/out VFD Drive | Gov't | Motors | Early | motor | 16,580 | 70% | 1.3 | 15 | \$2,243 | 86% | 3.4 |
| PECO | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Gov't | Motors | New | motor | 16,210 | 72% | 1.3 | 15 | \$2,243 | 86% | 3.4 |
| PECO | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Gov't | Motors | ROB | motor | 16,210 | 72% | 1.3 | 15 | \$2,243 | 86% | 3.4 |
| PECO | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Gov't | Motors | Early | motor | 16,851 | 6.7% | 0.1 | 15 | \$268 | 13% | 2.8 |
| PECO | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Gov't | Motors | New | motor | 16,851 | 6.7% | 0.1 | 15 | \$268 | 13% | 2.8 |
| PECO | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Gov't | Motors | ROB | motor | 16,851 | 6.7% | 0.1 | 15 | \$268 | 13% | 2.8 |
| PECO | VFD on Chilled Water Pump | Motor w/out VFD Drive | Gov't | Motors | Early | motor | 18,724 | 54% | 1.1 | 15 | \$2,903 | 86% | 2.3 |
| PECO | VFD on Chilled Water Pump | Motor w/out VFD Drive | Gov't | Motors | New | motor | 18,373 | 55% | 1.1 | 15 | \$2,843 | 86% | 2.3 |
| PECO | VFD on Chilled Water Pump | Motor w/out VFD Drive | Gov't | Motors | ROB | motor | 18,373 | 55% | 1.1 | 15 | \$2,843 | 86% | 2.3 |
| PECO | VFD on Condenser Water Pump | Motor w/out VFD Drive | Gov't | Motors | Early | motor | 18,641 | 32% | 0.6 | 15 | \$2,903 | 86% | 1.4 |
| PECO | VFD on Condenser Water Pump | Motor w/out VFD Drive | Gov't | Motors | New | motor | 18,292 | 33% | 0.6 | 15 | \$2,843 | 86% | 1.4 |
| PECO | VFD on Condenser Water Pump | Motor w/out VFD Drive | Gov't | Motors | ROB | motor | 18,292 | 33% | 0.6 | 15 | \$2,843 | 86% | 1.4 |
| PECO | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Gov't | Motors | Early | motor | 24,733 | 56% | 1.5 | 15 | \$2,903 | 86% | 3.1 |
| PECO | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Gov't | Motors | New | motor | 24,271 | 57% | 1.5 | 15 | \$2,843 | 86% | 3.2 |
| PECO | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Gov't | Motors | ROB | motor | 24,271 | 57% | 1.5 | 15 | \$2,843 | 86% | 3.2 |
| PECO | VFD on HVAC Fan | Motor w/out VFD | Gov't | Motors | Early | motor | 18,724 | 70% | 1.5 | 15 | \$2,903 | 86% | 3.0 |
| PECO | VFD on HVAC Fan | Motor w/out VFD | Gov't | Motors | New | motor | 18,373 | 72% | 1.5 | 15 | \$2,843 | 86% | 3.1 |
| PECO | VFD on HVAC Fan | Motor w/out VFD | Gov't | Motors | ROB | motor | 18,373 | 72% | 1.5 | 15 | \$2,843 | 86% | 3.1 |
| PECO | Elevators | Std. Eff Elevator | Gov't | Other | ROB | measure | 89,016 | 1.5% | 0.05 | 15 | \$116 | 63% | 6.7 |
| PECO | Variable Speed Drives on Process Equipment | Constant speed control | Gov't | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 11.8 |
| PECO | Variable Speed Drives on Process Equipment | Constant speed control | Gov't | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 11.8 |
| PECO | Auto Off Time Switch | Lighting w/ No Controls | Gov't | Other Int. Lighting | Existing | building | 5,367 | 24% | 0.2 | 8 | \$1,034 | 13% | 0.6 |
| PECO | Auto Off Time Switch | Lighting w/ No Controls | Gov't | Other Int. Lighting | New | building | 5,367 | 7.0% | 0.07 | 8 | \$1,034 | 0% | 0.2 |
| PECO | Central Lighting Control System | Lighting w/ No Controls | Gov't | Other Int. Lighting | Existing | building | 5,367 | 38% | 0.4 | 8 | \$1,034 | 13% | 0.9 |
| PECO | Central Lighting Control System | Lighting w/ No Controls | Gov't | Other Int. Lighting | New | building | 5,367 | 14% | 0.1 | 8 | \$1,034 | 13% | 0.3 |
| PECO | Cold Cathode Screw-In Bulb | 40W Incandescent Bulb | Gov't | Other Int. Lighting | Early | lamp | 87 | 87% | 0.01 | 15 | \$30 | 14% | 1.9 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Gov't | Other Int. Lighting | Early | lamp | 62 | 81% | 0.01 | 15 | \$30 | 11% | 1.3 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Gov't | Other Int. Lighting | New | lamp | 47 | 81% | 0.01 | 15 | \$21 | 14% | 1.4 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Gov't | Other Int. Lighting | New | lamp | 47 | 81% | 0.01 | 15 | \$23 | 14% | 1.3 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Gov't | Other Int. Lighting | New | lamp | 47 | 81% | 0.01 | 15 | \$22 | 11% | 1.3 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Gov't | Other Int. Lighting | ROB | lamp | 62 | 81% | 0.01 | 15 | \$21 | 14% | 1.8 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Gov't | Other Int. Lighting | ROB | lamp | 62 | 81% | 0.01 | 15 | \$23 | 14% | 1.7 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Gov't | Other Int. Lighting | ROB | lamp | 62 | 81% | 0.01 | 15 | \$22 | 11% | 1.7 |
| PECO | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Gov't | Other Int. Lighting | Early | lamp | 87 | 75% | 0.01 | 7 | \$73 | 18% | 0.4 |
| PECO | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Gov't | Other Int. Lighting | New | fixture | 95 | 65% | 0.01 | 13 | \$29 | 21% | 1.4 |
| PECO | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Gov't | Other Int. Lighting | New | lamp | 47 | 65% | 0.01 | 7 | \$29 | 21% | 0.4 |
| PECO | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Gov't | Other Int. Lighting | ROB | fixture | 125 | 65% | 0.01 | 13 | \$29 | 18% | 1.9 |
| PECO | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Gov't | Other Int. Lighting | ROB | lamp | 62 | 65% | 0.01 | 7 | \$29 | 18% | 0.6 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---|---|---------|---------------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Gov't | Other Int. Lighting | Early | lamp | 87 | 75% | 0.01 | 7 | \$3.2 | 20% | 8.2 |
| PECO | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Gov't | Other Int. Lighting | New | lamp | 47 | 65% | 0.01 | 7 | \$1.8 | 20% | 7.0 |
| PECO | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Gov't | Other Int. Lighting | ROB | lamp | 62 | 65% | 0.01 | 7 | \$1.8 | 20% | 9.2 |
| PECO | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Gov't | Other Int. Lighting | ROB | lamp | 62 | 65% | 0.01 | 7 | \$1.8 | 20% | 9.2 |
| PECO | Exit Sign Retrofit: CFL replacing Incandescent | One 23W Single Sided Incandescent Exit Sign | Gov't | Other Int. Lighting | Early | exit sign | 139 | 42% | 0.01 | 15 | \$48 | 22% | 0.8 |
| PECO | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Gov't | Other Int. Lighting | New | building | 5,367 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.0 |
| PECO | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Gov't | Other Int. Lighting | New | building | 5,367 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |
| PECO | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Gov't | Other Int. Lighting | New | building | 5,367 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| PECO | Indoor Daylight Sensors | Lighting w/ No Controls | Gov't | Other Int. Lighting | Existing | building | 5,367 | 28% | 0.3 | 8 | \$5,088 | 13% | 0.1 |
| PECO | Indoor Daylight Sensors | Lighting w/ No Controls | Gov't | Other Int. Lighting | New | building | 5,367 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| PECO | LED Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Gov't | Other Int. Lighting | Early | sign | 153 | 87% | 0.02 | 15 | \$48 | 16% | 1.9 |
| PECO | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Gov't | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 2.1 |
| PECO | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Gov't | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 2.1 |
| PECO | LED Task Lighting/Screw-In | 1 15W CFL bulb | Gov't | Other Int. Lighting | Early | lamp | 22 | 33% | 0.00 | 15 | \$9.6 | 20% | 0.6 |
| PECO | LED Task Lighting/Screw-In | 1 60W Incandescent Bulb | Gov't | Other Int. Lighting | Early | lamp | 89 | 83% | 0.01 | 15 | \$9.6 | 20% | 5.7 |
| PECO | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Gov't | Other Int. Lighting | New | lamp | 49 | 77% | 0.01 | 15 | \$7.9 | 20% | 3.5 |
| PECO | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Gov't | Other Int. Lighting | New | lamp | 49 | 77% | 0.01 | 15 | \$7.9 | 20% | 3.5 |
| PECO | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Gov't | Other Int. Lighting | ROB | lamp | 64 | 77% | 0.01 | 15 | \$7.9 | 20% | 4.6 |
| PECO | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Gov't | Other Int. Lighting | ROB | lamp | 64 | 77% | 0.01 | 15 | \$7.9 | 20% | 4.6 |
| PECO | Occupancy Sensor | Lighting w/ No Controls | Gov't | Other Int. Lighting | Existing | building | 5,367 | 24% | 0.2 | 8 | \$1,558 | 11% | 0.4 |
| PECO | Occupancy Sensor | Lighting w/ No Controls | Gov't | Other Int. Lighting | New | building | 5,367 | 7.0% | 0.07 | 8 | \$1,558 | 0% | 0.1 |
| PECO | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Gov't | Other Int. Lighting | Existing | building | 5,367 | 28% | 0.3 | 8 | \$5,088 | 11% | 0.1 |
| PECO | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Gov't | Other Int. Lighting | New | building | 5,367 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| PECO | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Gov't | Other Int. Lighting | Early | exit sign | 139 | 100% | 0.02 | 15 | \$173 | 26% | 0.6 |
| PECO | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Gov't | Other Int. Lighting | New | exit sign | 80 | 100% | 0.01 | 15 | \$148 | 31% | 0.4 |
| PECO | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Gov't | Other Int. Lighting | ROB | exit sign | 80 | 100% | 0.01 | 15 | \$148 | 26% | 0.4 |
| PECO | Time Clock Control | Lighting w/ No Controls | Gov't | Other Int. Lighting | Existing | building | 5,367 | 28% | 0.3 | 8 | \$1,034 | 13% | 0.7 |
| PECO | Time Clock Control | Lighting w/ No Controls | Gov't | Other Int. Lighting | New | building | 5,367 | 4.1% | 0.04 | 8 | \$1,034 | 0% | 0.1 |
| PECO | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Gov't | Plug Load | Existing | building | 2,913 | 46% | 0.5 | 5 | \$189 | 4% | 2.6 |
| PECO | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Gov't | Plug Load | New | building | 1,422 | 46% | 0.5 | 5 | \$189 | 4% | 1.8 |
| PECO | Data Center - Server/Storage Consolidation | No Consolidation | Gov't | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PECO | Data Center - Server/Storage Consolidation | No Consolidation | Gov't | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PECO | Data Center - Server/Storage Virtualization | No Virtualization | Gov't | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PECO | Data Center - Server/Storage Virtualization | No Virtualization | Gov't | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PECO | Energy Star - Scanners | Std Scanner | Gov't | Plug Load | New | measure | 68 | 3.8% | 0.04 | 4 | \$130 | 7% | 0.1 |
| PECO | Energy Star - Scanners | Std Scanner | Gov't | Plug Load | ROB | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| PECO | Energy Star Battery Charging System (for small cordless products) | Std. Battery Charging System | Gov't | Plug Load | ROB | measure | 593 | 2.3% | 0.5 | 5 | \$65 | 4% | 3.5 |
| PECO | Energy Star Dishwasher | Existing Dishwasher units | Gov't | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,580 | 1% | 1.1 |
| PECO | Energy Star Dishwasher | Standard Dishwasher unit | Gov't | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 1% | 3.6 |
| PECO | Energy Star Dishwasher | Standard Dishwasher unit | Gov't | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 1% | 3.6 |
| PECO | Energy Star External Power Adapter | Std. Power Adapter | Gov't | Plug Load | New | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| PECO | Energy Star External Power Adapter | Std. Power Adapter | Gov't | Plug Load | ROB | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| PECO | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Gov't | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 17% | 0.2 |
| PECO | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Gov't | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.3 |
| PECO | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Gov't | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.3 |
| PECO | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Gov't | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 9% | 0.8 |
| PECO | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Gov't | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.8 |
| PECO | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Gov't | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.8 |
| PECO | ENERGY STAR® Copiers | 10% Less Efficient Copier | Gov't | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 18% | 0.0 |
| PECO | ENERGY STAR® Copiers | One Conventional Copier | Gov't | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| PECO | ENERGY STAR® Copiers | One Conventional Copier | Gov't | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| PECO | ENERGY STAR® desktop | Standard computer | Gov't | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 69% | 0.1 |
| PECO | ENERGY STAR® desktop | Standard computer | Gov't | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.4 |
| PECO | ENERGY STAR® desktop | Standard computer | Gov't | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.4 |
| PECO | ENERGY STAR® Fax | 10% Less Efficient Fax | Gov't | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 15% | 0.0 |
| PECO | ENERGY STAR® Fax | One Conventional Fax | Gov't | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| PECO | ENERGY STAR® Fax | One Conventional Fax | Gov't | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| PECO | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Gov't | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 70% | 0.0 |
| PECO | ENERGY STAR® Monitors | One Conventional Monitor | Gov't | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| PECO | ENERGY STAR® Monitors | One Conventional Monitor | Gov't | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| PECO | ENERGY STAR® Printers | 10% Less Efficient Printer | Gov't | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 44% | 0.0 |
| PECO | ENERGY STAR® Printers | One Conventional Printer | Gov't | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.4 |
| PECO | ENERGY STAR® Printers | One Conventional Printer | Gov't | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.4 |
| PECO | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Gov't | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 43% | 0.1 |
| PECO | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Gov't | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.8 |
| PECO | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Gov't | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.8 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---|--|---------|---------------|----------|-------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | ENERGY STAR® Televisions | 10% Less Efficient Television | Gov't | Plug Load | Early | Unit | 111 | 38% | 0.01 | 6 | \$672 | 40% | 0.0 |
| PECO | ENERGY STAR® Televisions | One Conventional Television | Gov't | Plug Load | New | Unit | 101 | 32% | 0.01 | 6 | \$206 | 40% | 0.1 |
| PECO | ENERGY STAR® Televisions | One Conventional Television | Gov't | Plug Load | ROB | Unit | 101 | 32% | 0.01 | 6 | \$206 | 40% | 0.1 |
| PECO | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Gov't | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 24% | 0.3 |
| PECO | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Gov't | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.7 |
| PECO | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Gov't | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.7 |
| PECO | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Gov't | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.3 |
| PECO | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Gov't | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.3 |
| PECO | Network PC Power Management | No PC Power Management | Gov't | Plug Load | Existing | building | 425 | 33% | 0.3 | 5 | \$12 | 38% | 38.9 |
| PECO | Network PC Power Management | No PC Power Management | Gov't | Plug Load | New | building | 425 | 33% | 0.3 | 5 | \$12 | 38% | 38.9 |
| PECO | Smart Strip Plug Outlets | Standard plug strip/outlet | Gov't | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.4 |
| PECO | Smart Strip Plug Outlets | Standard plug strip/outlet | Gov't | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.4 |
| PECO | Smart Strip Plug Outlets | Standard plug strip/outlet | Gov't | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PECO | Smart Strip Plug Outlets | Standard plug strip/outlet | Gov't | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PECO | Smart Strip Plug Outlets | Standard plug strip/outlet | Gov't | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PECO | Smart Strip Plug Outlets | Standard plug strip/outlet | Gov't | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PECO | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Gov't | Plug Load | Existing | building | 2,913 | 46% | 0.5 | 5 | \$180 | 3% | 2.7 |
| PECO | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Gov't | Plug Load | New | building | 1,422 | 46% | 0.5 | 5 | \$180 | 3% | 1.9 |
| PECO | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Gov't | Refrigeration | Existing | building | 662 | 1.1% | 0.01 | 12 | \$70 | 11% | 0.2 |
| PECO | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Gov't | Refrigeration | New | building | 662 | 1.1% | 0.01 | 12 | \$70 | 11% | 0.2 |
| PECO | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Gov't | Refrigeration | Existing | building | 662 | 7.0% | 0.07 | 12 | \$70 | 11% | 1.2 |
| PECO | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Gov't | Refrigeration | New | building | 662 | 7.0% | 0.07 | 12 | \$70 | 11% | 1.2 |
| PECO | Auto Closer on Refrigerator Door | Door w/out Autocloser | Gov't | Refrigeration | Existing | building | 3,308 | 27% | 0.3 | 8 | \$747 | 40% | 0.6 |
| PECO | Auto Closer on Refrigerator Door | Door w/out Autocloser | Gov't | Refrigeration | Existing | building | 4,968 | 15% | 0.2 | 8 | \$763 | 40% | 0.5 |
| PECO | Auto Closer on Refrigerator Door | Door w/out Autocloser | Gov't | Refrigeration | New | building | 3,308 | 27% | 0.3 | 8 | \$747 | 40% | 0.6 |
| PECO | Auto Closer on Refrigerator Door | Door w/out Autocloser | Gov't | Refrigeration | New | building | 4,968 | 15% | 0.2 | 8 | \$763 | 40% | 0.5 |
| PECO | Demand Hot Gas Defrost | Base Refrigeration System | Gov't | Refrigeration | Existing | building | 662 | 3.0% | 0.03 | 10 | \$1,216 | 0% | 0.0 |
| PECO | Demand Hot Gas Defrost | Base Refrigeration System | Gov't | Refrigeration | New | building | 662 | 3.0% | 0.03 | 10 | \$1,216 | 0% | 0.0 |
| PECO | Door Gasket- Freezer | Door w/out Gasket | Gov't | Refrigeration | Existing | building | 3,308 | 15% | 0.1 | 4 | \$77 | 29% | 1.7 |
| PECO | Door Gasket- Freezer | Door w/out Gasket | Gov't | Refrigeration | New | building | 3,308 | 15% | 0.1 | 4 | \$77 | 29% | 1.7 |
| PECO | Door Gasket- Refrigerator | Door w/out Gasket | Gov't | Refrigeration | Existing | building | 4,968 | 4.8% | 0.05 | 4 | \$105 | 45% | 0.5 |
| PECO | Door Gasket- Refrigerator | Door w/out Gasket | Gov't | Refrigeration | New | building | 4,968 | 4.8% | 0.05 | 4 | \$105 | 45% | 0.5 |
| PECO | eCube | Refrigeration unit w/out eCube | Gov't | Refrigeration | Existing | building | 4,968 | 15% | 0.2 | 15 | \$504 | 57% | 1.1 |
| PECO | eCube | Refrigeration unit w/out eCube | Gov't | Refrigeration | New | building | 4,968 | 15% | 0.2 | 15 | \$504 | 57% | 1.1 |
| PECO | Efficient compressor motor | Base Refrigeration System - Grocery | Gov't | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| PECO | Efficient compressor motor | Base Refrigeration System - Grocery | Gov't | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| PECO | Efficient compressor motor | Base Refrigeration System - Grocery | Gov't | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| PECO | Efficient compressor motor | Base Refrigeration System - Grocery | Gov't | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| PECO | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Gov't | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.6 |
| PECO | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Gov't | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| PECO | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Gov't | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| PECO | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Gov't | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.3 |
| PECO | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Gov't | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.8 |
| PECO | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Gov't | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.8 |
| PECO | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Gov't | Refrigeration | Existing | building | 4,968 | 1.7% | 0.02 | 10 | \$369 | 77% | 0.1 |
| PECO | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Gov't | Refrigeration | New | building | 4,968 | 1.7% | 0.02 | 10 | \$369 | 77% | 0.1 |
| PECO | Floating head pressure controller | System w/out FHPC | Gov't | Refrigeration | Existing | building | 3,308 | 7.0% | 0.03 | 15 | \$8,682 | 41% | 0.0 |
| PECO | Floating head pressure controller | System w/out FHPC | Gov't | Refrigeration | Existing | building | 662 | 14% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| PECO | Floating head pressure controller | System w/out FHPC | Gov't | Refrigeration | Existing | building | 4,968 | 1.6% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| PECO | Floating head pressure controller | System w/out FHPC | Gov't | Refrigeration | New | building | 3,308 | 7.0% | 0.03 | 15 | \$8,682 | 41% | 0.0 |
| PECO | Floating head pressure controller | System w/out FHPC | Gov't | Refrigeration | New | building | 662 | 14% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| PECO | Floating head pressure controller | System w/out FHPC | Gov't | Refrigeration | New | building | 4,968 | 1.6% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| PECO | High Efficiency Commercial Freezer | Std. Commercial Freezer | Gov't | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 86% | 0.3 |
| PECO | High Efficiency Commercial Freezer | Std. Commercial Freezer | Gov't | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 4.2 |
| PECO | High Efficiency Commercial Freezer | Std. Commercial Freezer | Gov't | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 4.2 |
| PECO | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Gov't | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 2% | 0.1 |
| PECO | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Gov't | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.9 |
| PECO | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Gov't | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.9 |
| PECO | High Efficiency Ice Maker | Existing Standard Efficiency Ice Maker in Pennsylvania | Gov't | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 73% | 0.2 |
| PECO | High Efficiency Ice Maker | Standard code minimum Ice Maker | Gov't | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| PECO | High Efficiency Ice Maker | Standard code minimum Ice Maker | Gov't | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| PECO | High Efficiency Ice Making Head | Standard Ice Making Head | Gov't | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 4.1 |
| PECO | High Efficiency Ice Making Head | Standard Ice Making Head | Gov't | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 4.1 |
| PECO | High R-Value Glass Doors | Base Refrigeration System - Grocery | Gov't | Refrigeration | Existing | building | 662 | 0.7% | 0.01 | 10 | \$14 | 0% | 0.5 |
| PECO | High R-Value Glass Doors | Base Refrigeration System - Grocery | Gov't | Refrigeration | New | building | 662 | 0.7% | 0.01 | 10 | \$14 | 0% | 0.5 |
| PECO | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Gov't | Refrigeration | Early | Fixture | 373 | 56% | 0.01 | 8 | \$448 | 47% | 0.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---|---|---------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Gov't | Refrigeration | New | Fixture | 291 | 44% | 0.00 | 8 | \$139 | 47% | 0.3 |
| PECO | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Gov't | Refrigeration | ROB | Fixture | 291 | 44% | 0.00 | 8 | \$139 | 47% | 0.3 |
| PECO | No-heat glass doors | Standard low-temp reach-in | Gov't | Refrigeration | Existing | building | 662 | 20% | 0.2 | 10 | \$1,249 | 8% | 0.2 |
| PECO | No-heat glass doors | Standard low-temp reach-in | Gov't | Refrigeration | New | building | 662 | 20% | 0.2 | 10 | \$1,249 | 8% | 0.2 |
| PECO | Quick acting freezer doors | Std. Freezer Doors | Gov't | Refrigeration | Existing | building | 3,308 | 13% | 0.1 | 10 | \$735 | 56% | 0.4 |
| PECO | Quick acting freezer doors | Std. Freezer Doors | Gov't | Refrigeration | New | building | 3,308 | 13% | 0.1 | 10 | \$735 | 56% | 0.4 |
| PECO | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Gov't | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 30% | 0.4 |
| PECO | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Gov't | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.6 |
| PECO | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Gov't | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.6 |
| PECO | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 30% | 1.7 |
| PECO | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 3.0 |
| PECO | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 3.0 |
| PECO | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 30% | 1.7 |
| PECO | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 4.0 |
| PECO | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 4.0 |
| PECO | Refrigeration Commissioning | Non-commissioned refrigeration system | Gov't | Refrigeration | Existing | building | 9,262 | 9.5% | 0.10 | 3 | \$3,613 | 85% | 0.0 |
| PECO | Refrigeration Commissioning | Non-commissioned refrigeration system | Gov't | Refrigeration | New | building | 9,262 | 9.5% | 0.10 | 3 | \$3,613 | 85% | 0.0 |
| PECO | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Gov't | Refrigeration | Existing | building | 3,308 | 35% | 0.3 | 4 | \$93 | 22% | 3.4 |
| PECO | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Gov't | Refrigeration | Existing | building | 4,968 | 6.8% | 0.07 | 4 | \$128 | 22% | 0.6 |
| PECO | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Gov't | Refrigeration | New | building | 3,308 | 35% | 0.3 | 4 | \$93 | 22% | 3.4 |
| PECO | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Gov't | Refrigeration | New | building | 4,968 | 6.8% | 0.07 | 4 | \$128 | 22% | 0.6 |
| PECO | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Gov't | Refrigeration | Existing | building | 3,308 | 5.9% | 0.06 | 11 | \$119 | 79% | 1.1 |
| PECO | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Gov't | Refrigeration | New | building | 3,308 | 5.9% | 0.06 | 11 | \$119 | 79% | 1.1 |
| PECO | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Gov't | Refrigeration | Existing | building | 4,968 | 4.5% | 0.05 | 11 | \$119 | 79% | 1.1 |
| PECO | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Gov't | Refrigeration | New | building | 4,968 | 4.5% | 0.05 | 11 | \$119 | 79% | 1.1 |
| PECO | Vertical Night Covers | Display cases w/out night covers-High Temperature | Gov't | Refrigeration | Existing | building | 662 | 0.6% | 0.01 | 5 | \$52 | 9% | 0.1 |
| PECO | Vertical Night Covers | Display cases w/out night covers-High Temperature | Gov't | Refrigeration | New | building | 662 | 0.6% | 0.01 | 5 | \$52 | 9% | 0.1 |
| PECO | VSD Controlled Compressor | Compressor w/out VSD | Gov't | Refrigeration | Early | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.2 |
| PECO | VSD Controlled Compressor | Compressor w/out VSD | Gov't | Refrigeration | New | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.2 |
| PECO | VSD Controlled Compressor | Compressor w/out VSD | Gov't | Refrigeration | ROB | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.2 |
| PECO | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Gov't | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$269 | 35% | 0.9 |
| PECO | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Gov't | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$269 | 35% | 0.9 |
| PECO | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Gov't | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.2 |
| PECO | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Gov't | Refrigeration | New | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 3.0 |
| PECO | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Gov't | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.2 |
| PECO | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Gov't | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 3.1 |
| PECO | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 35% | 2.4 |
| PECO | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 35% | 2.3 |
| PECO | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 5.2 |
| PECO | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.9 |
| PECO | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 5.2 |
| PECO | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.9 |
| PECO | Adding reflective roof treatment | Std color roof | Gov't | Space Heating | Existing | building | 11,257 | 7.1% | 0.07 | 6 | \$14,313 | 82% | 0.0 |
| PECO | Adding reflective roof treatment | Std color roof | Gov't | Space Heating | New | building | 11,257 | 7.1% | 0.07 | 6 | \$14,313 | 82% | 0.0 |
| PECO | Adding window shade film | No shade film | Gov't | Space Heating | Existing | building | 11,257 | 1.3% | 0.4 | 10 | \$137 | 13% | 2.5 |
| PECO | Adding window shade film | No shade film | Gov't | Space Heating | New | building | 11,257 | 1.3% | 0.4 | 10 | \$137 | 13% | 2.5 |
| PECO | Adding window shade screen | No shade screen | Gov't | Space Heating | Existing | building | 11,257 | 1.1% | 0.01 | 10 | \$53 | 13% | 1.1 |
| PECO | Adding window shade screen | No shade screen | Gov't | Space Heating | New | building | 11,257 | 1.1% | 0.01 | 10 | \$53 | 13% | 1.0 |
| PECO | Automated control system | Manual Controls | Gov't | Space Heating | Existing | building | 11,257 | 17% | 0.2 | 15 | \$12,323 | 51% | 0.1 |
| PECO | Automated control system | Manual Controls | Gov't | Space Heating | New | building | 11,257 | 17% | 0.2 | 15 | \$12,323 | 94% | 0.1 |
| PECO | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Gov't | Space Heating | Existing | building | 11,257 | 3.4% | 0.03 | 15 | \$17,130 | 71% | 0.0 |
| PECO | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Gov't | Space Heating | New | building | 11,257 | 1.1% | 0.01 | 15 | \$16,283 | 94% | 0.0 |
| PECO | Duct Insulation, Add R8 | No Insulation | Gov't | Space Heating | Existing | building | 11,257 | 1.4% | 0.04 | 15 | \$89 | 20% | 1.4 |
| PECO | Duct Insulation, Add R8 | No Insulation | Gov't | Space Heating | New | building | 11,257 | 1.4% | 0.04 | 15 | \$89 | 10% | 1.4 |
| PECO | Efficient Unit Heating System | Existing Unit Heaters in PA | Gov't | Space Heating | Early | heater | 37,019 | 23% | 0.07 | 15 | \$3,289 | 83% | 1.4 |
| PECO | Efficient Unit Heating System | Std. Unit Heater | Gov't | Space Heating | New | heater | 32,855 | 13% | 0.04 | 15 | \$1,991 | 83% | 1.1 |
| PECO | Efficient Unit Heating System | Std. Unit Heater | Gov't | Space Heating | ROB | heater | 32,855 | 13% | 0.04 | 15 | \$1,991 | 83% | 1.1 |
| PECO | Facility Commissioning | No Facility Commissioning | Gov't | Space Heating | New | building | 11,257 | 16% | 0.2 | 10 | \$160,767 | 89% | 0.0 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Gov't | Space Heating | Existing | building | 11,257 | 7.1% | 0.07 | 15 | \$49,931 | 25% | 0.0 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Gov't | Space Heating | New | building | 11,257 | 7.1% | 0.07 | 15 | \$49,931 | 35% | 0.0 |
| PECO | Hi Eff HVAC System Design | No HVAC Design | Gov't | Space Heating | New | building | 11,257 | 7.4% | 0.07 | 10 | \$1,183,632 | 51% | 0.0 |
| PECO | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Gov't | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 1.1 |
| PECO | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Gov't | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 1.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|--|---|---------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Gov't | Space Heating | Existing | building | 11,257 | 1.1% | 0.01 | 10 | \$7,735 | 81% | 0.0 |
| PECO | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Gov't | Space Heating | New | building | 11,257 | 1.1% | 0.01 | 10 | \$7,735 | 81% | 0.0 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Gov't | Space Heating | Existing | building | 11,257 | 3.6% | 0.04 | 11 | \$286 | 49% | 0.7 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Gov't | Space Heating | New | building | 11,257 | 3.1% | 0.03 | 11 | \$146 | 49% | 1.2 |
| PECO | Re-Commissioning (Existing Construction) | No Re-Commissioning | Gov't | Space Heating | Existing | building | 11,257 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.1 |
| PECO | VFD on Cooling Tower Fan | Motor w/out VFD | Gov't | Space Heating | Early | motor | 18,724 | 70% | 0.1 | 15 | \$2,843 | 88% | 2.5 |
| PECO | VFD on Cooling Tower Fan | Motor w/out VFD | Gov't | Space Heating | New | motor | 18,373 | 72% | 0.1 | 15 | \$2,843 | 88% | 2.5 |
| PECO | VFD on Cooling Tower Fan | Motor w/out VFD | Gov't | Space Heating | ROB | motor | 18,373 | 72% | 0.1 | 15 | \$2,843 | 88% | 2.5 |
| PECO | Wall Insualtions (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Gov't | Space Heating | Existing | building | 11,257 | 6.0% | 0.06 | 15 | \$3,285 | 26% | 0.1 |
| PECO | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Gov't | Space Heating | New | building | 11,257 | 0.2% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| PECO | Green LED Traffic Light | Green Incandescent Traffic Light | Gov't | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 0% | 1.3 |
| PECO | Green LED Traffic Light | Green Incandescent Traffic Light | Gov't | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.2 |
| PECO | Green LED Traffic Light | Green Incandescent Traffic Light | Gov't | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.2 |
| PECO | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Gov't | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 0% | 3.2 |
| PECO | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Gov't | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| PECO | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Gov't | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| PECO | Induction Street Lighting | One 100W HPS Street Light Fixture | Gov't | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 0% | 0.3 |
| PECO | Induction Street Lighting | One 100W HPS Street Light Fixture | Gov't | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.8 |
| PECO | Induction Street Lighting | One 100W HPS Street Light Fixture | Gov't | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.8 |
| PECO | LED Street Lighting | One 100W HPS Street Light | Gov't | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 0% | 0.2 |
| PECO | LED Street Lighting | One 100W HPS Street Light | Gov't | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| PECO | LED Street Lighting | One 100W HPS Street Light | Gov't | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| PECO | Red LED Traffic Light | One Red Incandescent Traffic Light | Gov't | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 0% | 1.7 |
| PECO | Red LED Traffic Light | One Red Incandescent Traffic Light | Gov't | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| PECO | Red LED Traffic Light | One Red Incandescent Traffic Light | Gov't | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| PECO | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Gov't | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 0% | 0.1 |
| PECO | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Gov't | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| PECO | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Gov't | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| PECO | Demand controlled Circulating Systems | Constant circulation system | Gov't | Water Heating | Existing | building | 7,757 | 20% | 0.2 | 15 | \$1,407 | 59% | 0.8 |
| PECO | Demand controlled Circulating Systems | Constant circulation system | Gov't | Water Heating | New | building | 7,757 | 20% | 0.2 | 15 | \$1,407 | 59% | 0.8 |
| PECO | Drainwater Heat Recovery Water Heater | No heat recovery | Gov't | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 2.0 |
| PECO | Drainwater Heat Recovery Water Heater | No heat recovery | Gov't | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 2.0 |
| PECO | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Gov't | Water Heating | Existing | building | 7,757 | 5.9% | 0.06 | 12 | \$42 | 85% | 6.3 |
| PECO | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Gov't | Water Heating | New | building | 7,757 | 5.9% | 0.06 | 12 | \$12 | 85% | 22.2 |
| PECO | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Gov't | Water Heating | Early | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 3.2 |
| PECO | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Gov't | Water Heating | Early | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 3.2 |
| PECO | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Gov't | Water Heating | New | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 3.2 |
| PECO | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Gov't | Water Heating | New | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 3.2 |
| PECO | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Gov't | Water Heating | ROB | water heater | 10,350 | 65% | 1.2 | 10 | \$1,187 | 68% | 3.0 |
| PECO | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Gov't | Water Heating | ROB | water heater | 10,350 | 65% | 1.2 | 10 | \$1,187 | 68% | 3.0 |
| PECO | Heat Recovery Unit | Base Water Heating | Gov't | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.7 |
| PECO | Heat Recovery Unit | Base Water Heating | Gov't | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.7 |
| PECO | Heat Trap | No Heat Trap | Gov't | Water Heating | Existing | building | 7,757 | 22% | 0.2 | 11 | \$53 | 50% | 17.7 |
| PECO | Heat Trap | No Heat Trap | Gov't | Water Heating | New | building | 7,757 | 22% | 0.2 | 11 | \$7.9 | 50% | 118.9 |
| PECO | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Gov't | Water Heating | Early | water heater | 10,645 | 5.9% | 0.1 | 15 | \$307 | 79% | 1.5 |
| PECO | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Gov't | Water Heating | Early | water heater | 10,645 | 5.9% | 0.1 | 15 | \$307 | 79% | 1.5 |
| PECO | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Gov't | Water Heating | New | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.8 |
| PECO | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Gov't | Water Heating | New | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.8 |
| PECO | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Gov't | Water Heating | ROB | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.8 |
| PECO | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Gov't | Water Heating | ROB | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.8 |
| PECO | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Gov't | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$466 | 81% | 41.5 |
| PECO | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Gov't | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 21.6 |
| PECO | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Gov't | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 21.6 |
| PECO | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Gov't | Water Heating | Existing | building | 7,757 | 0.4% | 0.00 | 13 | \$4.9 | 68% | 4.1 |
| PECO | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Gov't | Water Heating | New | building | 7,757 | 0.4% | 0.00 | 13 | \$4.9 | 0% | 4.1 |
| PECO | Hot Water Circulation Pump Time-Clock | Constant circulation system | Gov't | Water Heating | Existing | building | 7,757 | 5.3% | 0.05 | 10 | \$31 | 72% | 6.6 |
| PECO | Hot Water Circulation Pump Time-Clock | Constant circulation system | Gov't | Water Heating | New | building | 7,757 | 5.3% | 0.05 | 10 | \$31 | 72% | 6.6 |
| PECO | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Gov't | Water Heating | Existing | building | 7,757 | 0.9% | 0.01 | 7 | \$22 | 78% | 1.2 |
| PECO | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Gov't | Water Heating | New | building | 7,757 | 0.8% | 0.01 | 7 | \$0.5 | 78% | 45.6 |
| PECO | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Gov't | Water Heating | Existing | building | 7,757 | 2.3% | 0.02 | 5 | \$300 | 20% | 0.2 |
| PECO | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Gov't | Water Heating | New | building | 7,757 | 1.5% | 0.02 | 5 | \$194 | 20% | 0.2 |
| PECO | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Gov't | Water Heating | Existing | building | 7,757 | 6.5% | 0.07 | 9 | \$25 | 2% | 9.3 |
| PECO | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Gov't | Water Heating | New | building | 7,757 | 6.5% | 0.07 | 9 | \$6.0 | 2% | 38.7 |
| PECO | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Gov't | Water Heating | Early | water heater | 10,645 | 52% | 0.4 | 15 | \$6,222 | 32% | 0.6 |
| PECO | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Gov't | Water Heating | New | water heater | 10,350 | 51% | 0.4 | 15 | \$6,222 | 32% | 0.5 |
| PECO | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Gov't | Water Heating | ROB | water heater | 10,350 | 51% | 0.4 | 15 | \$6,222 | 32% | 0.5 |
| PECO | Ultrasonic Faucet Control | Manual Faucet Control | Gov't | Water Heating | Existing | building | 7,757 | 3.0% | 0.03 | 10 | \$1,341 | 77% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|--|---|---------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Ultrasonic Faucet Control | Manual Faucet Control | Gov't | Water Heating | New | building | 7,757 | 3.1% | 0.03 | 10 | \$1,341 | 77% | 0.1 |
| PECO | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Gov't | Water Heating | Existing | building | 7,757 | 2.2% | 0.02 | 4 | \$28 | 83% | 1.4 |
| PECO | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Gov't | Water Heating | New | building | 7,757 | 2.3% | 0.02 | 4 | \$28 | 83% | 1.4 |
| PECO | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Grocery | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.2 |
| PECO | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Grocery | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.2 |
| PECO | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Grocery | Cooking | Early | steamer | 51 | 46% | 0.00 | 12 | \$5,053 | 81% | 0.0 |
| PECO | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Grocery | Cooking | New | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| PECO | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Grocery | Cooking | ROB | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| PECO | Electric combination oven (Energy Star) | Standard Oven | Grocery | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 3.3 |
| PECO | Electric combination oven (Energy Star) | Standard Oven | Grocery | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 3.3 |
| PECO | Electric Convection Oven | Conventional convection oven w/ 65% efficiency | Grocery | Cooking | Early | oven | 8,641 | 37% | 0.6 | 12 | \$4,119 | 81% | 0.5 |
| PECO | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Grocery | Cooking | New | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.8 |
| PECO | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Grocery | Cooking | ROB | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.8 |
| PECO | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Grocery | Cooking | Early | fryer | 6,105 | 23% | 0.3 | 12 | \$9,241 | 86% | 0.1 |
| PECO | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Grocery | Cooking | New | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.4 |
| PECO | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Grocery | Cooking | ROB | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.4 |
| PECO | High Efficiency Griddle (ENERGY STAR) | Efficiency code minimum griddle (70% eff) | Grocery | Cooking | Early | griddle | 11,317 | 65% | 1.4 | 12 | \$4,977 | 86% | 1.0 |
| PECO | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Grocery | Cooking | New | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.3 |
| PECO | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Grocery | Cooking | ROB | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.3 |
| PECO | High Efficiency Induction Cooking | Standard Cooking | Grocery | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.2 |
| PECO | High Efficiency Induction Cooking | Standard Cooking | Grocery | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.2 |
| PECO | Solid-state temperature controls | No Solid State Controls | Grocery | Cooking | Existing | building | 4,542 | 3.6% | 0.04 | 12 | \$20 | 34% | 5.4 |
| PECO | Adding reflective roof treatment | Std color roof | Grocery | Cooling Central | Existing | building | 3,282 | 7.0% | 0.07 | 6 | \$25,394 | 82% | 0.0 |
| PECO | Adding reflective roof treatment | Std color roof | Grocery | Cooling Central | New | building | 3,282 | 7.0% | 0.07 | 6 | \$25,394 | 82% | 0.0 |
| PECO | Adding window shade film | No shade film | Grocery | Cooling Central | Existing | building | 3,282 | 1.3% | 0.4 | 10 | \$40 | 12% | 7.8 |
| PECO | Adding window shade film | No shade film | Grocery | Cooling Central | New | building | 3,282 | 1.3% | 0.4 | 10 | \$40 | 13% | 7.8 |
| PECO | Adding window shade screen | No shade screen | Grocery | Cooling Central | Existing | building | 3,282 | 1.1% | 0.01 | 10 | \$15 | 13% | 1.4 |
| PECO | Adding window shade screen | No shade screen | Grocery | Cooling Central | New | building | 3,282 | 1.1% | 0.01 | 10 | \$15 | 13% | 1.4 |
| PECO | Automated control system | Manual Controls | Grocery | Cooling Central | Existing | building | 3,282 | 17% | 0.2 | 15 | \$3,592 | 51% | 0.1 |
| PECO | Automated control system | Manual Controls | Grocery | Cooling Central | New | building | 3,282 | 17% | 0.2 | 15 | \$3,592 | 94% | 0.1 |
| PECO | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Grocery | Cooling Central | Existing | building | 3,282 | 9.8% | 0.10 | 15 | \$33,930 | 71% | 0.0 |
| PECO | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Grocery | Cooling Central | New | building | 3,282 | 3.3% | 0.03 | 15 | \$32,251 | 94% | 0.0 |
| PECO | Chiller Tuneup/Diagnostics | No tuneup | Grocery | Cooling Central | Existing | building | 3,282 | 8.0% | 0.08 | 10 | \$8,379 | 59% | 0.0 |
| PECO | Chiller Tuneup/Diagnostics | No tuneup | Grocery | Cooling Central | New | building | 3,282 | 8.0% | 0.08 | 10 | \$8,379 | 59% | 0.0 |
| PECO | Duct Insulation, Add R8 | No Insulation | Grocery | Cooling Central | Existing | building | 3,282 | 1.4% | 0.04 | 15 | \$26 | 20% | 2.6 |
| PECO | Duct Insulation, Add R8 | No Insulation | Grocery | Cooling Central | New | building | 3,282 | 1.4% | 0.04 | 15 | \$26 | 10% | 2.6 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Grocery | Cooling Central | Existing | building | 3,282 | 7.0% | 0.07 | 15 | \$14,556 | 25% | 0.0 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Grocery | Cooling Central | New | building | 3,282 | 7.0% | 0.07 | 15 | \$14,556 | 35% | 0.0 |
| PECO | Hi Eff HVAC System Design | No HVAC Design | Grocery | Cooling Central | New | building | 3,282 | 9.3% | 0.09 | 10 | \$951,979 | 51% | 0.0 |
| PECO | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Grocery | Cooling Central | Early | ton | 5,730 | 24% | 0.3 | 15 | \$108,550 | 88% | 0.0 |
| PECO | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Grocery | Cooling Central | New | ton | 4,684 | 6.7% | 0.07 | 15 | \$12,927 | 88% | 0.0 |
| PECO | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Grocery | Cooling Central | ROB | ton | 4,684 | 6.7% | 0.07 | 15 | \$12,927 | 88% | 0.0 |
| PECO | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Grocery | Cooling Central | Early | ton | 8,562 | 23% | 0.5 | 15 | \$140,105 | 88% | 0.0 |
| PECO | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Grocery | Cooling Central | New | ton | 6,888 | 4.9% | 0.08 | 15 | \$9,336 | 88% | 0.0 |
| PECO | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Grocery | Cooling Central | ROB | ton | 6,888 | 4.9% | 0.08 | 15 | \$9,336 | 88% | 0.0 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Grocery | Cooling Central | Early | ton | 70,089 | 26% | 4.1 | 15 | \$105,354 | 88% | 0.1 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Grocery | Cooling Central | New | ton | 61,068 | 15% | 2.1 | 15 | \$30,530 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Grocery | Cooling Central | ROB | ton | 61,068 | 15% | 2.1 | 15 | \$30,530 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Grocery | Cooling Central | Early | ton | 104,974 | 23% | 5.4 | 15 | \$154,107 | 88% | 0.1 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Grocery | Cooling Central | New | ton | 96,432 | 16% | 3.5 | 15 | \$27,646 | 88% | 0.4 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Grocery | Cooling Central | ROB | ton | 104,974 | 23% | 5.4 | 15 | \$27,646 | 88% | 0.7 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Grocery | Cooling Central | Early | ton | 174,342 | 23% | 8.9 | 15 | \$302,924 | 88% | 0.1 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Grocery | Cooling Central | New | ton | 157,792 | 14% | 5.1 | 15 | \$115,432 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Grocery | Cooling Central | ROB | ton | 174,342 | 23% | 8.9 | 15 | \$115,432 | 88% | 0.3 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Grocery | Cooling Central | Early | ton | 209,211 | 23% | 10.6 | 15 | \$350,154 | 88% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|--|---|---------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Grocery | Cooling Central | New | ton | 189,351 | 14% | 6.2 | 15 | \$120,406 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Grocery | Cooling Central | ROB | ton | 209,211 | 23% | 10.6 | 15 | \$120,406 | 88% | 0.3 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Grocery | Cooling Central | Early | ton | 46,373 | 29% | 3.1 | 15 | \$83,632 | 88% | 0.1 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Grocery | Cooling Central | New | ton | 36,008 | 8.9% | 0.7 | 15 | \$40,211 | 88% | 0.1 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Grocery | Cooling Central | ROB | ton | 46,373 | 29% | 3.1 | 15 | \$40,211 | 88% | 0.3 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Grocery | Cooling Central | Early | ton | 79,681 | 35% | 6.2 | 15 | \$132,173 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Grocery | Cooling Central | New | ton | 59,428 | 13% | 1.7 | 15 | \$39,556 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Grocery | Cooling Central | ROB | ton | 59,428 | 13% | 1.7 | 15 | \$39,556 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Grocery | Cooling Central | Early | ton | 133,034 | 39% | 11.7 | 15 | \$187,029 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Grocery | Cooling Central | New | ton | 94,851 | 15% | 3.1 | 15 | \$33,554 | 88% | 0.3 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Grocery | Cooling Central | ROB | ton | 133,034 | 39% | 11.7 | 15 | \$33,554 | 88% | 1.2 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Grocery | Cooling Central | Early | ton | 23,279 | 30% | 1.6 | 15 | \$32,398 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Grocery | Cooling Central | New | ton | 18,443 | 11% | 0.5 | 15 | \$7,188 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Grocery | Cooling Central | ROB | ton | 23,279 | 30% | 1.6 | 15 | \$7,188 | 88% | 0.8 |
| PECO | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Grocery | Cooling Central | Existing | building | 3,282 | 1.1% | 0.01 | 10 | \$94,032 | 81% | 0.0 |
| PECO | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Grocery | Cooling Central | New | building | 3,282 | 1.1% | 0.01 | 10 | \$94,032 | 81% | 0.0 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Grocery | Cooling Central | Existing | building | 3,282 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.2 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Grocery | Cooling Central | New | building | 3,282 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.3 |
| PECO | Re-Commissioning (Existing Construction) | No Re-Commissioning | Grocery | Cooling Central | Existing | building | 3,282 | 16% | 0.2 | 5 | \$19,254 | 86% | 0.0 |
| PECO | Wall Insultions (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Grocery | Cooling Central | Existing | building | 3,282 | 19% | 0.2 | 15 | \$7,224 | 26% | 0.1 |
| PECO | Wall Insultions (Going upto R 21) | Code minimum Wall Insulations | Grocery | Cooling Central | New | building | 3,282 | 0.5% | 0.01 | 15 | \$5,541 | 94% | 0.0 |
| PECO | <65k BTU/hr 14 SEER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Grocery | Cooling Unitary | Early | ton | 1,945 | 16% | 0.1 | 15 | \$1,545 | 29% | 0.2 |
| PECO | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Grocery | Cooling Unitary | New | ton | 1,761 | 7.1% | 0.05 | 15 | \$339 | 29% | 0.4 |
| PECO | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Grocery | Cooling Unitary | ROB | ton | 1,761 | 7.1% | 0.05 | 15 | \$339 | 29% | 0.4 |
| PECO | <65k BTU/hr 15 SEER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Grocery | Cooling Unitary | Early | ton | 1,945 | 22% | 0.2 | 15 | \$1,821 | 30% | 0.2 |
| PECO | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Grocery | Cooling Unitary | New | ton | 1,761 | 13% | 0.10 | 15 | \$714 | 30% | 0.3 |
| PECO | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Grocery | Cooling Unitary | ROB | ton | 1,761 | 13% | 0.10 | 15 | \$714 | 30% | 0.3 |
| PECO | <65k BTU/hr 16 SEER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Grocery | Cooling Unitary | Early | ton | 1,945 | 26% | 0.2 | 15 | \$2,098 | 31% | 0.2 |
| PECO | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Grocery | Cooling Unitary | New | ton | 1,761 | 19% | 0.1 | 15 | \$1,089 | 31% | 0.3 |
| PECO | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Grocery | Cooling Unitary | ROB | ton | 1,761 | 19% | 0.1 | 15 | \$1,089 | 31% | 0.3 |
| PECO | >760k min 10.2 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Grocery | Cooling Unitary | Early | ton | 49,200 | 3.7% | 0.7 | 15 | \$68,066 | 56% | 0.0 |
| PECO | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Grocery | Cooling Unitary | New | ton | 49,831 | 4.9% | 1.0 | 15 | \$6,231 | 56% | 0.4 |
| PECO | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Grocery | Cooling Unitary | ROB | ton | 49,831 | 4.9% | 1.0 | 15 | \$6,231 | 56% | 0.4 |
| PECO | 135-240k min 12 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Grocery | Cooling Unitary | Early | ton | 12,106 | 18% | 0.9 | 15 | \$18,135 | 79% | 0.1 |
| PECO | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Grocery | Cooling Unitary | New | ton | 11,012 | 10.0% | 0.5 | 15 | \$1,948 | 79% | 0.6 |
| PECO | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Grocery | Cooling Unitary | ROB | ton | 11,012 | 10.0% | 0.5 | 15 | \$1,948 | 79% | 0.6 |
| PECO | 240k-760k min 11 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Grocery | Cooling Unitary | Early | ton | 32,368 | 9.0% | 1.2 | 15 | \$44,809 | 66% | 0.1 |
| PECO | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Grocery | Cooling Unitary | New | ton | 32,449 | 9.3% | 1.2 | 15 | \$4,813 | 66% | 0.6 |
| PECO | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Grocery | Cooling Unitary | ROB | ton | 32,449 | 9.3% | 1.2 | 15 | \$4,813 | 66% | 0.6 |
| PECO | 65k-135k BTU/hr 12 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Grocery | Cooling Unitary | Early | ton | 7,136 | 17% | 0.5 | 15 | \$10,946 | 86% | 0.1 |
| PECO | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Grocery | Cooling Unitary | New | ton | 6,360 | 6.7% | 0.2 | 15 | \$1,392 | 86% | 0.3 |
| PECO | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Grocery | Cooling Unitary | ROB | ton | 6,360 | 6.7% | 0.2 | 15 | \$1,392 | 86% | 0.3 |
| PECO | Adding reflective roof treatment | Std color roof | Grocery | Cooling Unitary | Existing | building | 30,446 | 7.0% | 0.07 | 6 | \$25,394 | 82% | 0.0 |
| PECO | Adding reflective roof treatment | Std color roof | Grocery | Cooling Unitary | New | building | 30,446 | 7.0% | 0.07 | 6 | \$25,394 | 82% | 0.0 |
| PECO | Adding window shade film | No shade film | Grocery | Cooling Unitary | Existing | building | 30,446 | 1.3% | 0.4 | 10 | \$370 | 12% | 1.2 |
| PECO | Adding window shade film | No shade film | Grocery | Cooling Unitary | New | building | 30,446 | 1.3% | 0.4 | 10 | \$370 | 13% | 1.2 |
| PECO | Adding window shade screen | No shade screen | Grocery | Cooling Unitary | Existing | building | 30,446 | 1.1% | 0.01 | 10 | \$143 | 12% | 1.0 |
| PECO | Adding window shade screen | No shade screen | Grocery | Cooling Unitary | New | building | 30,446 | 1.1% | 0.01 | 10 | \$143 | 13% | 1.0 |
| PECO | Automated control system | Manual Controls | Grocery | Cooling Unitary | Existing | building | 30,446 | 17% | 0.2 | 15 | \$33,331 | 51% | 0.1 |
| PECO | Automated control system | Manual Controls | Grocery | Cooling Unitary | New | building | 30,446 | 17% | 0.2 | 15 | \$33,331 | 94% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---|--|---------|-----------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Grocery | Cooling Unitary | Existing | building | 30,446 | 9.8% | 0.10 | 15 | \$33,930 | 71% | 0.1 |
| PECO | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Grocery | Cooling Unitary | New | building | 30,446 | 3.3% | 0.03 | 15 | \$32,251 | 94% | 0.0 |
| PECO | Duct Insulation, Add R8 | No Insulation | Grocery | Cooling Unitary | Existing | building | 30,446 | 1.4% | 0.04 | 15 | \$242 | 20% | 1.2 |
| PECO | Duct Insulation, Add R8 | No Insulation | Grocery | Cooling Unitary | New | building | 30,446 | 1.4% | 0.04 | 15 | \$242 | 10% | 1.2 |
| PECO | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Grocery | Cooling Unitary | Existing | building | 16,638 | 13% | 0.1 | 1 | \$159 | 73% | 0.7 |
| PECO | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Grocery | Cooling Unitary | New | building | 16,638 | 13% | 0.1 | 1 | \$159 | 73% | 0.7 |
| PECO | ECM Motors for split systems | Std Shaded Pole Motor | Grocery | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 3.2 |
| PECO | ECM Motors for split systems | Std Shaded Pole Motor | Grocery | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 3.2 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Grocery | Cooling Unitary | Existing | building | 30,446 | 7.1% | 0.07 | 15 | \$135,050 | 25% | 0.0 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Grocery | Cooling Unitary | New | building | 30,446 | 7.1% | 0.07 | 15 | \$135,050 | 35% | 0.0 |
| PECO | Hi Eff HVAC System Design | No HVAC Design | Grocery | Cooling Unitary | New | building | 30,446 | 9.3% | 0.09 | 10 | \$11,507 | 51% | 0.1 |
| PECO | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Grocery | Cooling Unitary | Existing | building | 30,446 | 5.0% | 0.05 | 5 | \$225 | 59% | 1.6 |
| PECO | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Grocery | Cooling Unitary | Existing | building | 30,446 | 1.1% | 0.01 | 10 | \$101,057 | 86% | 0.0 |
| PECO | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Grocery | Cooling Unitary | New | building | 30,446 | 1.1% | 0.01 | 10 | \$101,057 | 86% | 0.0 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) | Grocery | Cooling Unitary | Existing | building | 30,446 | 2.0% | 0.02 | 11 | \$286 | 49% | 1.0 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Grocery | Cooling Unitary | New | building | 30,446 | 1.7% | 0.02 | 11 | \$146 | 49% | 1.7 |
| PECO | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Grocery | Cooling Unitary | Early | unit | 358 | 19% | 0.02 | 15 | \$849 | 85% | 0.1 |
| PECO | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Grocery | Cooling Unitary | New | unit | 362 | 20% | 0.02 | 15 | \$356 | 85% | 0.2 |
| PECO | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Grocery | Cooling Unitary | ROB | unit | 362 | 20% | 0.02 | 15 | \$356 | 85% | 0.2 |
| PECO | Re-Commissioning (Existing Construction) | No Re-Commissioning | Grocery | Cooling Unitary | Existing | building | 30,446 | 16% | 0.2 | 5 | \$19,254 | 86% | 0.1 |
| PECO | Room AC (w/ louvered sides) | Existing efficiency Room AC in Pennsylvania (2000 Federal Standards) | Grocery | Cooling Unitary | Early | ton | 774 | 13% | 0.02 | 9 | \$348 | 82% | 0.2 |
| PECO | Room AC (w/ louvered sides) | Std Room AC (Code Min. Federal Standards) | Grocery | Cooling Unitary | New | ton | 701 | 4.5% | 0.01 | 9 | \$17 | 82% | 1.0 |
| PECO | Room AC (w/ louvered sides) | Std Room AC (Code Min. Federal Standards) | Grocery | Cooling Unitary | ROB | ton | 701 | 4.5% | 0.01 | 9 | \$17 | 82% | 1.0 |
| PECO | Wall Insualtions (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Grocery | Cooling Unitary | Existing | building | 30,446 | 19% | 0.2 | 15 | \$7,224 | 26% | 0.5 |
| PECO | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Grocery | Cooling Unitary | New | building | 30,446 | 0.5% | 0.01 | 15 | \$5,541 | 94% | 0.0 |
| PECO | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Grocery | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 1.1 |
| PECO | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Grocery | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.4 |
| PECO | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Grocery | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.4 |
| PECO | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Grocery | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 0% | 0.2 |
| PECO | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Grocery | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| PECO | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Grocery | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| PECO | LED exterior lighting | 250 Watt Incandescent | Grocery | Ext. Lighting | ROB | measure | 1,456 | 83% | 0.2 | 15 | \$104 | 89% | 7.4 |
| PECO | LED exterior lighting | 250 Watt Incandescent | Grocery | Ext. Lighting | ROB | measure | 1,456 | 83% | 0.2 | 15 | \$104 | 89% | 7.4 |
| PECO | LED exterior lighting | 250 Watt Incandescent | Grocery | Ext. Lighting | ROB | measure | 1,456 | 83% | 0.2 | 15 | \$104 | 89% | 7.4 |
| PECO | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Grocery | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 75% | 0.3 |
| PECO | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Grocery | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 75% | 0.2 |
| PECO | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Grocery | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.6 |
| PECO | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Grocery | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.0 |
| PECO | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Grocery | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.6 |
| PECO | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Grocery | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.0 |
| PECO | Photocell Controls (Outdoor) | Lighting w/ No Controls | Grocery | Ext. Lighting | Existing | building | 188 | 28% | 0.3 | 8 | \$1,459 | 88% | 0.1 |
| PECO | Photocell Controls (Outdoor) | Lighting w/ No Controls | Grocery | Ext. Lighting | New | building | 188 | 28% | 0.3 | 8 | \$1,459 | 0% | 0.1 |
| PECO | Adding reflective roof treatment | Std color roof | Grocery | Heat Pump | Existing | building | 3,131 | 6.9% | 0.07 | 6 | \$25,394 | 82% | 0.0 |
| PECO | Adding reflective roof treatment | Std color roof | Grocery | Heat Pump | New | building | 3,131 | 6.9% | 0.07 | 6 | \$25,394 | 82% | 0.0 |
| PECO | Adding window shade film | No shade film | Grocery | Heat Pump | Existing | building | 3,131 | 3.9% | 0.4 | 10 | \$38 | 12% | 9.0 |
| PECO | Adding window shade film | No shade film | Grocery | Heat Pump | New | building | 3,131 | 3.9% | 0.4 | 10 | \$38 | 12% | 9.0 |
| PECO | Adding window shade screen | No shade screen | Grocery | Heat Pump | Existing | building | 3,131 | 0.3% | 0.01 | 10 | \$4.9 | 12% | 2.5 |
| PECO | Adding window shade screen | No shade screen | Grocery | Heat Pump | New | building | 3,131 | 0.3% | 0.01 | 10 | \$4.9 | 12% | 2.5 |
| PECO | Automated control system | Manual Controls | Grocery | Heat Pump | Existing | building | 3,131 | 17% | 0.2 | 15 | \$3,428 | 51% | 0.1 |
| PECO | Automated control system | Manual Controls | Grocery | Heat Pump | New | building | 3,131 | 17% | 0.2 | 15 | \$3,428 | 94% | 0.1 |
| PECO | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Grocery | Heat Pump | Existing | building | 3,131 | 9.8% | 0.10 | 15 | \$33,930 | 71% | 0.0 |
| PECO | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Grocery | Heat Pump | New | building | 3,131 | 3.3% | 0.03 | 15 | \$32,251 | 94% | 0.0 |
| PECO | Duct Insulation, Add R8 | No Insulation | Grocery | Heat Pump | Existing | building | 3,131 | 4.0% | 0.04 | 15 | \$25 | 12% | 4.6 |
| PECO | Duct Insulation, Add R8 | No Insulation | Grocery | Heat Pump | New | building | 3,131 | 4.0% | 0.04 | 15 | \$25 | 6% | 4.5 |
| PECO | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Grocery | Heat Pump | Early | heat pump | 2,314 | 11% | 0.06 | 15 | \$4,070 | 83% | 0.1 |
| PECO | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Grocery | Heat Pump | New | heat pump | 2,240 | 8.0% | 0.04 | 15 | \$1,097 | 83% | 0.1 |
| PECO | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Grocery | Heat Pump | ROB | heat pump | 2,240 | 8.0% | 0.04 | 15 | \$1,097 | 83% | 0.1 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Grocery | Heat Pump | Existing | building | 3,131 | 7.0% | 0.07 | 15 | \$13,890 | 25% | 0.0 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Grocery | Heat Pump | New | building | 3,131 | 7.0% | 0.07 | 15 | \$13,890 | 35% | 0.0 |
| PECO | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Grocery | Heat Pump | Early | heat pump | 23,243 | 13% | 0.7 | 15 | \$91,117 | 19% | 0.0 |
| PECO | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Grocery | Heat Pump | New | heat pump | 22,684 | 11% | 0.5 | 15 | \$33,927 | 19% | 0.1 |
| PECO | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Grocery | Heat Pump | ROB | heat pump | 22,684 | 11% | 0.5 | 15 | \$33,927 | 19% | 0.1 |
| PECO | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Grocery | Heat Pump | Early | heat pump | 23,243 | 13% | 0.7 | 15 | \$58,356 | 19% | 0.0 |
| PECO | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Grocery | Heat Pump | New | heat pump | 22,684 | 11% | 0.5 | 15 | \$1,167 | 19% | 1.6 |
| PECO | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Grocery | Heat Pump | ROB | heat pump | 22,684 | 11% | 0.5 | 15 | \$1,167 | 19% | 1.6 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|--|--|---------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Hi Eff HVAC System Design | No HVAC Design | Grocery | Heat Pump | New | building | 3,131 | 9.3% | 0.09 | 10 | \$951,979 | 51% | 0.0 |
| PECO | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Grocery | Heat Pump | Early | heat pump | 6,171 | 15% | 0.2 | 12 | \$4,298 | 81% | 0.1 |
| PECO | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Grocery | Heat Pump | Early | heat pump | 6,171 | 27% | 0.4 | 12 | \$5,883 | 81% | 0.2 |
| PECO | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Grocery | Heat Pump | New | heat pump | 5,973 | 12% | 0.2 | 12 | \$852 | 81% | 0.6 |
| PECO | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Grocery | Heat Pump | New | heat pump | 5,973 | 24% | 0.3 | 12 | \$2,437 | 81% | 0.4 |
| PECO | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Grocery | Heat Pump | ROB | heat pump | 5,973 | 12% | 0.2 | 12 | \$852 | 81% | 0.6 |
| PECO | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Grocery | Heat Pump | ROB | heat pump | 5,973 | 24% | 0.3 | 12 | \$2,437 | 81% | 0.4 |
| PECO | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Grocery | Heat Pump | Existing | building | 3,131 | 1.1% | 0.01 | 10 | \$89,973 | 81% | 0.0 |
| PECO | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Grocery | Heat Pump | New | building | 3,131 | 1.1% | 0.01 | 10 | \$89,973 | 81% | 0.0 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Grocery | Heat Pump | Existing | building | 3,131 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.2 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Grocery | Heat Pump | New | building | 3,131 | 2.1% | 0.02 | 11 | \$146 | 49% | 0.3 |
| PECO | Re-Commissioning (Existing Construction) | No Re-Commissioning | Grocery | Heat Pump | Existing | building | 3,131 | 16% | 0.2 | 5 | \$19,254 | 86% | 0.0 |
| PECO | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Grocery | Heat Pump | Existing | building | 3,131 | 19% | 0.2 | 15 | \$7,224 | 26% | 0.1 |
| PECO | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Grocery | Heat Pump | New | building | 3,131 | 0.5% | 0.01 | 15 | \$5,541 | 94% | 0.0 |
| PECO | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Grocery | Heat Pump | Early | heat pump | 10,205 | 39% | 0.9 | 15 | \$35,347 | 28% | 0.1 |
| PECO | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Grocery | Heat Pump | New | heat pump | 9,888 | 37% | 0.8 | 15 | \$15,739 | 28% | 0.2 |
| PECO | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Grocery | Heat Pump | ROB | heat pump | 9,888 | 37% | 0.8 | 15 | \$15,739 | 28% | 0.2 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Grocery | High Bay Lighting | Early | Fixture | 1,363 | 9.6% | 0.02 | 13 | \$850 | 39% | 0.1 |
| PECO | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Grocery | High Bay Lighting | Early | Fixture | 1,362 | 9.5% | 0.02 | 13 | \$850 | 28% | 0.1 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Grocery | High Bay Lighting | Early | Fixture | 2,102 | 41% | 0.1 | 13 | \$850 | 36% | 0.7 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Grocery | High Bay Lighting | New | Fixture | 1,036 | 9.6% | 0.02 | 13 | \$372 | 39% | 0.2 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Grocery | High Bay Lighting | New | Fixture | 964 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.1 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Grocery | High Bay Lighting | New | Fixture | 1,597 | 41% | 0.1 | 13 | \$397 | 36% | 1.1 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Grocery | High Bay Lighting | ROB | Fixture | 1,363 | 9.6% | 0.02 | 13 | \$372 | 39% | 0.2 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Grocery | High Bay Lighting | ROB | Fixture | 1,268 | 2.9% | 0.01 | 13 | \$338 | 28% | 0.1 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Grocery | High Bay Lighting | ROB | Fixture | 2,102 | 41% | 0.1 | 13 | \$397 | 36% | 1.5 |
| PECO | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Grocery | High Bay Lighting | Early | Fixture | 2,645 | 19% | 0.09 | 13 | \$851 | 38% | 0.4 |
| PECO | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Grocery | High Bay Lighting | Early | Fixture | 2,678 | 20% | 0.09 | 13 | \$851 | 38% | 0.4 |
| PECO | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | Early | Fixture | 7,791 | 73% | 1.0 | 13 | \$851 | 38% | 4.4 |
| PECO | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Grocery | High Bay Lighting | New | Fixture | 2,010 | 19% | 0.07 | 13 | \$372 | 38% | 0.7 |
| PECO | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | New | Fixture | 5,921 | 73% | 0.7 | 13 | \$383 | 38% | 7.5 |
| PECO | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Grocery | High Bay Lighting | ROB | Fixture | 2,645 | 19% | 0.09 | 13 | \$372 | 38% | 0.9 |
| PECO | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | ROB | Fixture | 7,791 | 73% | 1.0 | 13 | \$383 | 38% | 9.8 |
| PECO | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Grocery | High Bay Lighting | Early | Fixture | 2,645 | 25% | 0.1 | 13 | \$554 | 29% | 0.8 |
| PECO | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Grocery | High Bay Lighting | Early | Fixture | 2,597 | 23% | 0.1 | 13 | \$554 | 28% | 0.7 |
| PECO | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | Early | Fixture | 7,791 | 74% | 1.0 | 13 | \$554 | 36% | 7.0 |
| PECO | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Grocery | High Bay Lighting | New | Fixture | 2,010 | 25% | 0.09 | 13 | \$75 | 29% | 4.4 |
| PECO | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | New | Fixture | 5,921 | 74% | 0.8 | 13 | \$86 | 36% | 34.2 |
| PECO | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Grocery | High Bay Lighting | ROB | Fixture | 2,645 | 25% | 0.1 | 13 | \$75 | 29% | 5.8 |
| PECO | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | ROB | Fixture | 7,791 | 74% | 1.0 | 13 | \$86 | 36% | 45.0 |
| PECO | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Grocery | High Bay Lighting | Early | Fixture | 690 | 0.2% | 0.00 | 13 | \$835 | 38% | 0.0 |
| PECO | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Grocery | High Bay Lighting | Early | Fixture | 1,486 | 54% | 0.1 | 13 | \$835 | 38% | 0.6 |
| PECO | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Grocery | High Bay Lighting | New | Fixture | 1,129 | 54% | 0.1 | 13 | \$382 | 38% | 1.1 |
| PECO | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Grocery | High Bay Lighting | ROB | Fixture | 1,486 | 54% | 0.1 | 13 | \$382 | 38% | 1.4 |
| PECO | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Grocery | High Bay Lighting | Early | Fixture | 3,370 | 18% | 0.1 | 13 | \$487 | 25% | 0.8 |
| PECO | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Grocery | High Bay Lighting | Early | Fixture | 3,524 | 22% | 0.1 | 13 | \$487 | 28% | 1.1 |
| PECO | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | Early | Fixture | 7,791 | 65% | 0.9 | 13 | \$487 | 36% | 6.9 |
| PECO | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Grocery | High Bay Lighting | New | Fixture | 2,561 | 18% | 0.08 | 13 | \$16 | 25% | 19.1 |
| PECO | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | New | Fixture | 5,921 | 65% | 0.7 | 13 | \$18 | 36% | 138.6 |
| PECO | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Grocery | High Bay Lighting | ROB | Fixture | 3,370 | 18% | 0.1 | 13 | \$16 | 25% | 25.2 |
| PECO | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | ROB | Fixture | 7,791 | 65% | 0.9 | 13 | \$18 | 36% | 182.3 |
| PECO | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Grocery | High Bay Lighting | Early | Fixture | 3,370 | 1.5% | 0.01 | 13 | \$557 | 19% | 0.1 |
| PECO | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Grocery | High Bay Lighting | Early | Fixture | 3,469 | 4.3% | 0.03 | 13 | \$557 | 19% | 0.2 |
| PECO | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | Early | Fixture | 7,791 | 57% | 0.8 | 13 | \$557 | 19% | 5.3 |
| PECO | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Grocery | High Bay Lighting | New | Fixture | 2,561 | 1.5% | 0.01 | 13 | \$86 | 19% | 0.3 |
| PECO | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | New | Fixture | 5,921 | 57% | 0.6 | 13 | \$88 | 19% | 25.6 |
| PECO | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Grocery | High Bay Lighting | ROB | Fixture | 3,370 | 1.5% | 0.01 | 13 | \$86 | 19% | 0.4 |
| PECO | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | ROB | Fixture | 7,791 | 57% | 0.8 | 13 | \$88 | 19% | 33.7 |
| PECO | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Grocery | High Bay Lighting | Early | Fixture | 1,431 | 29% | 0.05 | 13 | \$492 | 71% | 0.5 |
| PECO | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Grocery | High Bay Lighting | Early | Fixture | 1,197 | 15% | 0.02 | 13 | \$492 | 95% | 0.2 |
| PECO | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Grocery | High Bay Lighting | Early | Fixture | 1,778 | 43% | 0.09 | 13 | \$492 | 95% | 1.0 |
| PECO | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Grocery | High Bay Lighting | Early | Fixture | 1,648 | 38% | 0.08 | 13 | \$492 | 95% | 0.8 |
| PECO | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Grocery | High Bay Lighting | New | Fixture | 909 | 15% | 0.02 | 13 | \$25 | 95% | 3.4 |
| PECO | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Grocery | High Bay Lighting | New | Fixture | 1,351 | 43% | 0.07 | 13 | \$51 | 95% | 6.9 |
| PECO | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Grocery | High Bay Lighting | ROB | Fixture | 1,197 | 15% | 0.02 | 13 | \$25 | 95% | 4.5 |
| PECO | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Grocery | High Bay Lighting | ROB | Fixture | 1,778 | 43% | 0.09 | 13 | \$51 | 95% | 9.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---|--|---------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Grocery | High Bay Lighting | Early | lamp | 155 | 16% | 0.00 | 7 | \$7.7 | 99% | 1.3 |
| PECO | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Grocery | High Bay Lighting | New | lamp | 92 | 13% | 0.00 | 7 | \$1.6 | 91% | 2.9 |
| PECO | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Grocery | High Bay Lighting | ROB | lamp | 149 | 13% | 0.00 | 7 | \$1.6 | 91% | 4.7 |
| PECO | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Grocery | High Bay Lighting | Early | Fixture | 7,972 | 23% | 0.3 | 13 | \$613 | 5% | 2.0 |
| PECO | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Grocery | High Bay Lighting | Early | Fixture | 6,263 | 1.6% | 0.02 | 13 | \$613 | 28% | 0.1 |
| PECO | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | Early | Fixture | 15,582 | 60% | 1.6 | 13 | \$613 | 18% | 10.2 |
| PECO | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Grocery | High Bay Lighting | New | Fixture | 6,059 | 23% | 0.2 | 13 | \$96 | 5% | 9.5 |
| PECO | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Grocery | High Bay Lighting | ROB | Fixture | 7,972 | 23% | 0.3 | 13 | \$96 | 5% | 12.5 |
| PECO | Auto Off Time Switch | Lighting w/ No Controls | Grocery | High Bay Lighting | Existing | building | 4,042 | 24% | 0.2 | 8 | \$296 | 13% | 1.6 |
| PECO | Auto Off Time Switch | Lighting w/ No Controls | Grocery | High Bay Lighting | New | building | 4,042 | 6.9% | 0.07 | 8 | \$296 | 0% | 0.5 |
| PECO | Central Lighting Control System | Lighting w/ No Controls | Grocery | High Bay Lighting | Existing | building | 4,042 | 38% | 0.4 | 8 | \$296 | 13% | 2.6 |
| PECO | Central Lighting Control System | Lighting w/ No Controls | Grocery | High Bay Lighting | New | building | 4,042 | 14% | 0.1 | 8 | \$296 | 13% | 1.0 |
| PECO | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Grocery | High Bay Lighting | New | building | 4,042 | 10.0% | 0.1 | 15 | \$69,961 | 32% | 0.0 |
| PECO | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Grocery | High Bay Lighting | New | building | 4,042 | 15% | 0.2 | 15 | \$174,902 | 32% | 0.0 |
| PECO | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Grocery | High Bay Lighting | New | building | 4,042 | 30% | 0.3 | 15 | \$250,693 | 32% | 0.0 |
| PECO | Indoor Daylight Sensors | Lighting w/ No Controls | Grocery | High Bay Lighting | Existing | building | 4,042 | 28% | 0.3 | 8 | \$1,459 | 13% | 0.4 |
| PECO | Indoor Daylight Sensors | Lighting w/ No Controls | Grocery | High Bay Lighting | New | building | 4,042 | 4.0% | 0.04 | 8 | \$1,459 | 0% | 0.1 |
| PECO | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Grocery | High Bay Lighting | Early | Fixture | 7,972 | 92% | 1.3 | 13 | \$1,916 | 95% | 2.6 |
| PECO | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | Early | Fixture | 15,582 | 96% | 2.6 | 13 | \$1,916 | 95% | 5.2 |
| PECO | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Grocery | High Bay Lighting | New | Fixture | 6,059 | 92% | 1.0 | 13 | \$1,468 | 95% | 2.5 |
| PECO | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | New | Fixture | 11,842 | 96% | 2.0 | 13 | \$1,149 | 95% | 6.6 |
| PECO | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Grocery | High Bay Lighting | ROB | Fixture | 7,972 | 92% | 1.3 | 13 | \$1,468 | 95% | 3.3 |
| PECO | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | ROB | Fixture | 15,582 | 96% | 2.6 | 13 | \$1,149 | 95% | 8.7 |
| PECO | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Grocery | High Bay Lighting | Early | Fixture | 2,645 | 67% | 0.3 | 13 | \$960 | 95% | 1.2 |
| PECO | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Grocery | High Bay Lighting | Early | Fixture | 7,791 | 89% | 1.2 | 13 | \$960 | 95% | 4.8 |
| PECO | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Grocery | High Bay Lighting | Early | Fixture | 2,138 | 59% | 0.2 | 13 | \$960 | 95% | 0.9 |
| PECO | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Grocery | High Bay Lighting | New | Fixture | 2,010 | 67% | 0.2 | 13 | \$480 | 95% | 1.9 |
| PECO | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Grocery | High Bay Lighting | New | Fixture | 5,921 | 89% | 0.9 | 13 | \$491 | 95% | 7.1 |
| PECO | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Grocery | High Bay Lighting | New | Fixture | 1,625 | 59% | 0.2 | 13 | \$406 | 95% | 1.6 |
| PECO | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Grocery | High Bay Lighting | ROB | Fixture | 2,645 | 67% | 0.3 | 13 | \$480 | 95% | 2.4 |
| PECO | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Grocery | High Bay Lighting | ROB | Fixture | 7,791 | 89% | 1.2 | 13 | \$491 | 95% | 9.4 |
| PECO | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Grocery | High Bay Lighting | ROB | Fixture | 2,138 | 59% | 0.2 | 13 | \$406 | 95% | 2.1 |
| PECO | Occupancy Sensor | Lighting w/ No Controls | Grocery | High Bay Lighting | Existing | building | 4,042 | 24% | 0.2 | 8 | \$447 | 12% | 1.1 |
| PECO | Occupancy Sensor | Lighting w/ No Controls | Grocery | High Bay Lighting | New | building | 4,042 | 6.9% | 0.07 | 8 | \$447 | 0% | 0.3 |
| PECO | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Grocery | High Bay Lighting | Existing | building | 4,042 | 28% | 0.3 | 8 | \$1,459 | 12% | 0.4 |
| PECO | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Grocery | High Bay Lighting | New | building | 4,042 | 4.0% | 0.04 | 8 | \$1,459 | 0% | 0.1 |
| PECO | Time Clock Control | Lighting w/ No Controls | Grocery | High Bay Lighting | Existing | building | 4,042 | 28% | 0.3 | 8 | \$296 | 13% | 1.9 |
| PECO | Time Clock Control | Lighting w/ No Controls | Grocery | High Bay Lighting | New | building | 4,042 | 4.0% | 0.04 | 8 | \$296 | 0% | 0.3 |
| PECO | Auto Off Time Switch | Lighting w/ No Controls | Grocery | Lin. Fluor. Lighting | Existing | building | 34,688 | 24% | 0.2 | 8 | \$296 | 13% | 9.9 |
| PECO | Auto Off Time Switch | Lighting w/ No Controls | Grocery | Lin. Fluor. Lighting | New | building | 34,688 | 7.0% | 0.07 | 8 | \$296 | 0% | 2.9 |
| PECO | Central Lighting Control System | Lighting w/ No Controls | Grocery | Lin. Fluor. Lighting | Existing | building | 34,688 | 38% | 0.4 | 8 | \$296 | 12% | 15.7 |
| PECO | Central Lighting Control System | Lighting w/ No Controls | Grocery | Lin. Fluor. Lighting | New | building | 34,688 | 14% | 0.1 | 8 | \$296 | 12% | 5.8 |
| PECO | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Grocery | Lin. Fluor. Lighting | New | building | 34,688 | 10% | 0.1 | 15 | \$69,961 | 32% | 0.0 |
| PECO | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Grocery | Lin. Fluor. Lighting | New | building | 34,688 | 15% | 0.2 | 15 | \$174,902 | 32% | 0.0 |
| PECO | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Grocery | Lin. Fluor. Lighting | New | building | 34,688 | 30% | 0.3 | 15 | \$250,693 | 32% | 0.0 |
| PECO | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Grocery | Lin. Fluor. Lighting | Early | Lamp | 312 | 38% | 0.02 | 7 | \$7.3 | 94% | 6.3 |
| PECO | Indoor Daylight Sensors | Lighting w/ No Controls | Grocery | Lin. Fluor. Lighting | Existing | building | 34,688 | 28% | 0.3 | 8 | \$1,459 | 13% | 2.4 |
| PECO | Indoor Daylight Sensors | Lighting w/ No Controls | Grocery | Lin. Fluor. Lighting | New | building | 34,688 | 4.1% | 0.04 | 8 | \$1,459 | 0% | 0.3 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | Early | Lamp | 165 | 19% | 0.01 | 8 | \$35 | 94% | 0.4 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 40W T12 Lamp, Magnetic Ballast | Grocery | Lin. Fluor. Lighting | Early | Lamp | 363 | 63% | 0.04 | 8 | \$35 | 94% | 2.9 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | Early | Lamp | 204 | 34% | 0.01 | 8 | \$35 | 94% | 0.9 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | Early | Lamp | 197 | 32% | 0.01 | 8 | \$35 | 94% | 0.8 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | New | Lamp | 126 | 19% | 0.00 | 8 | \$28 | 94% | 0.4 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | New | Lamp | 150 | 32% | 0.01 | 8 | \$29 | 94% | 0.7 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | New | Lamp | 155 | 34% | 0.01 | 8 | \$22 | 94% | 1.1 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | New | Lamp | 150 | 32% | 0.01 | 8 | \$29 | 94% | 0.7 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | ROB | Lamp | 165 | 19% | 0.01 | 8 | \$28 | 94% | 0.5 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | ROB | Lamp | 197 | 32% | 0.01 | 8 | \$29 | 94% | 1.0 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | ROB | Lamp | 204 | 34% | 0.01 | 8 | \$22 | 94% | 1.4 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | ROB | Lamp | 197 | 32% | 0.01 | 8 | \$29 | 94% | 1.0 |
| PECO | Occupancy Sensor | Lighting w/ No Controls | Grocery | Lin. Fluor. Lighting | Existing | building | 34,688 | 24% | 0.2 | 8 | \$447 | 13% | 6.6 |
| PECO | Occupancy Sensor | Lighting w/ No Controls | Grocery | Lin. Fluor. Lighting | New | building | 34,688 | 7.0% | 0.07 | 8 | \$447 | 0% | 1.9 |
| PECO | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Grocery | Lin. Fluor. Lighting | Existing | building | 34,688 | 28% | 0.3 | 8 | \$1,459 | 12% | 2.4 |
| PECO | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Grocery | Lin. Fluor. Lighting | New | building | 34,688 | 4.1% | 0.04 | 8 | \$1,459 | 0% | 0.3 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 40W T12 w/ Magnetic Ballast | Grocery | Lin. Fluor. Lighting | Early | Lamp | 312 | 54% | 0.03 | 7 | \$9.1 | 94% | 7.2 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | Early | Lamp | 200 | 28% | 0.01 | 7 | \$9.1 | 24% | 2.4 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | Early | Lamp | 194 | 26% | 0.01 | 7 | \$9.1 | 94% | 2.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---|--|---------|---------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Downsizing motor during retrofit | Larger hp standard motor | Grocery | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 24.3 |
| PECO | Downsizing motor during retrofit | Larger hp standard motor | Grocery | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 25.6 |
| PECO | Downsizing motor during retrofit | Larger hp standard motor | Grocery | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 25.3 |
| PECO | Downsizing motor during retrofit | Larger hp standard motor | Grocery | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 23.0 |
| PECO | Downsizing motor during retrofit | Larger hp standard motor | Grocery | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 23.8 |
| PECO | Downsizing motor during retrofit | Larger hp standard motor | Grocery | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 24.0 |
| PECO | Downsizing motor during retrofit | Larger hp standard motor | Grocery | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 25.6 |
| PECO | Downsizing motor during retrofit | Larger hp standard motor | Grocery | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 25.2 |
| PECO | Escalator Motor Controller | Constant power control | Grocery | Motors | New | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 22% | 6.3 |
| PECO | Escalator Motor Controller | Constant power control | Grocery | Motors | ROB | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 22% | 6.3 |
| PECO | Variable Speed Drive Control, 15HP | Existing Motors w/out VSD Drive | Grocery | Motors | Early | motor | 61,505 | 70% | 4.8 | 15 | \$731 | 86% | 39.3 |
| PECO | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Grocery | Motors | New | motor | 60,182 | 72% | 4.8 | 15 | \$731 | 86% | 39.3 |
| PECO | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Grocery | Motors | ROB | motor | 60,182 | 72% | 4.8 | 15 | \$731 | 86% | 39.3 |
| PECO | Variable Speed Drive Control, 40HP | Existing Motors w/out VSD Drive | Grocery | Motors | Early | motor | 160,486 | 71% | 12.5 | 15 | \$4,666 | 86% | 16.2 |
| PECO | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Grocery | Motors | New | motor | 158,610 | 72% | 12.5 | 15 | \$4,666 | 86% | 16.2 |
| PECO | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Grocery | Motors | ROB | motor | 158,610 | 72% | 12.5 | 15 | \$4,666 | 86% | 16.2 |
| PECO | Variable Speed Drive Control, 5HP | Existing Motors w/out VFD Drive | Grocery | Motors | Early | motor | 21,322 | 70% | 1.6 | 15 | \$2,243 | 86% | 4.4 |
| PECO | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Grocery | Motors | New | motor | 20,845 | 72% | 1.6 | 15 | \$2,243 | 86% | 4.4 |
| PECO | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Grocery | Motors | ROB | motor | 20,845 | 72% | 1.6 | 15 | \$2,243 | 86% | 4.4 |
| PECO | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Grocery | Motors | Early | motor | 3,452 | 32% | 0.1 | 15 | \$268 | 86% | 2.8 |
| PECO | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Grocery | Motors | New | motor | 3,452 | 32% | 0.1 | 15 | \$268 | 86% | 2.8 |
| PECO | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Grocery | Motors | ROB | motor | 3,452 | 32% | 0.1 | 15 | \$268 | 86% | 2.8 |
| PECO | VFD on Chilled Water Pump | Motor w/out VFD Drive | Grocery | Motors | Early | motor | 18,724 | 54% | 2.7 | 15 | \$2,903 | 86% | 2.8 |
| PECO | VFD on Chilled Water Pump | Motor w/out VFD Drive | Grocery | Motors | New | motor | 18,373 | 55% | 2.7 | 15 | \$2,843 | 86% | 2.9 |
| PECO | VFD on Chilled Water Pump | Motor w/out VFD Drive | Grocery | Motors | ROB | motor | 18,373 | 55% | 2.7 | 15 | \$2,843 | 86% | 2.9 |
| PECO | VFD on Condenser Water Pump | Motor w/out VFD Drive | Grocery | Motors | Early | motor | 18,641 | 32% | 3.2 | 15 | \$2,903 | 86% | 2.2 |
| PECO | VFD on Condenser Water Pump | Motor w/out VFD Drive | Grocery | Motors | New | motor | 18,292 | 33% | 3.1 | 15 | \$2,843 | 86% | 2.3 |
| PECO | VFD on Condenser Water Pump | Motor w/out VFD Drive | Grocery | Motors | ROB | motor | 18,292 | 33% | 3.1 | 15 | \$2,843 | 86% | 2.3 |
| PECO | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Grocery | Motors | Early | motor | 24,733 | 56% | 0.00 | 15 | \$2,903 | 86% | 2.5 |
| PECO | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Grocery | Motors | New | motor | 24,271 | 57% | 0.00 | 15 | \$2,843 | 86% | 2.6 |
| PECO | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Grocery | Motors | ROB | motor | 24,271 | 57% | 0.00 | 15 | \$2,843 | 86% | 2.6 |
| PECO | VFD on HVAC Fan | Motor w/out VFD | Grocery | Motors | Early | motor | 18,724 | 70% | 3.4 | 15 | \$2,903 | 86% | 3.7 |
| PECO | VFD on HVAC Fan | Motor w/out VFD | Grocery | Motors | New | motor | 18,373 | 72% | 3.3 | 15 | \$2,843 | 86% | 3.8 |
| PECO | VFD on HVAC Fan | Motor w/out VFD | Grocery | Motors | ROB | motor | 18,373 | 72% | 3.3 | 15 | \$2,843 | 86% | 3.8 |
| PECO | Variable Speed Drives on Process Equipment | Constant speed control | Grocery | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 11.6 |
| PECO | Variable Speed Drives on Process Equipment | Constant speed control | Grocery | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 11.6 |
| PECO | Auto Off Time Switch | Lighting w/ No Controls | Grocery | Other Int. Lighting | Existing | building | 15,334 | 24% | 0.2 | 8 | \$296 | 13% | 4.7 |
| PECO | Auto Off Time Switch | Lighting w/ No Controls | Grocery | Other Int. Lighting | New | building | 15,334 | 7.0% | 0.07 | 8 | \$296 | 0% | 1.4 |
| PECO | Central Lighting Control System | Lighting w/ No Controls | Grocery | Other Int. Lighting | Existing | building | 15,334 | 38% | 0.4 | 8 | \$296 | 13% | 7.4 |
| PECO | Central Lighting Control System | Lighting w/ No Controls | Grocery | Other Int. Lighting | New | building | 15,334 | 14% | 0.1 | 8 | \$296 | 13% | 2.7 |
| PECO | Cold Cathode Screw-In Bulb | 40W Incandescent Bulb | Grocery | Other Int. Lighting | Early | lamp | 382 | 87% | 0.06 | 4 | \$30 | 14% | 2.6 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Grocery | Other Int. Lighting | Early | lamp | 274 | 81% | 0.04 | 4 | \$30 | 11% | 1.8 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Grocery | Other Int. Lighting | New | lamp | 208 | 81% | 0.03 | 4 | \$21 | 14% | 1.9 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Grocery | Other Int. Lighting | New | lamp | 208 | 81% | 0.03 | 4 | \$23 | 14% | 1.7 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Grocery | Other Int. Lighting | New | lamp | 208 | 81% | 0.03 | 4 | \$22 | 11% | 1.8 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Grocery | Other Int. Lighting | ROB | lamp | 274 | 81% | 0.04 | 4 | \$21 | 14% | 2.4 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Grocery | Other Int. Lighting | ROB | lamp | 274 | 81% | 0.04 | 4 | \$23 | 14% | 2.3 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Grocery | Other Int. Lighting | ROB | lamp | 274 | 81% | 0.04 | 4 | \$22 | 11% | 2.4 |
| PECO | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Grocery | Other Int. Lighting | Early | lamp | 382 | 75% | 0.05 | 2 | \$73 | 18% | 0.5 |
| PECO | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Grocery | Other Int. Lighting | New | fixture | 416 | 65% | 0.05 | 13 | \$29 | 21% | 6.2 |
| PECO | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Grocery | Other Int. Lighting | New | lamp | 208 | 65% | 0.02 | 2 | \$29 | 21% | 0.6 |
| PECO | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Grocery | Other Int. Lighting | ROB | fixture | 547 | 65% | 0.06 | 13 | \$29 | 18% | 8.2 |
| PECO | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Grocery | Other Int. Lighting | ROB | lamp | 274 | 65% | 0.03 | 2 | \$29 | 18% | 0.7 |
| PECO | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Grocery | Other Int. Lighting | Early | lamp | 382 | 75% | 0.05 | 2 | \$3.2 | 20% | 10.8 |
| PECO | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Grocery | Other Int. Lighting | New | lamp | 208 | 65% | 0.02 | 2 | \$1.8 | 20% | 9.2 |
| PECO | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Grocery | Other Int. Lighting | ROB | lamp | 274 | 65% | 0.03 | 2 | \$1.8 | 20% | 12.1 |
| PECO | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Grocery | Other Int. Lighting | ROB | lamp | 274 | 65% | 0.03 | 2 | \$1.8 | 20% | 12.1 |
| PECO | Exit Sign Retrofit: CFL replacing Incandescent | One 23W Single Sided Incandescent Exit Sign | Grocery | Other Int. Lighting | Early | exit sign | 134 | 42% | 0.01 | 15 | \$48 | 22% | 0.8 |
| PECO | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Grocery | Other Int. Lighting | New | building | 15,334 | 10% | 0.1 | 15 | \$69,961 | 32% | 0.0 |
| PECO | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Grocery | Other Int. Lighting | New | building | 15,334 | 15% | 0.2 | 15 | \$174,902 | 32% | 0.0 |
| PECO | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Grocery | Other Int. Lighting | New | building | 15,334 | 30% | 0.3 | 15 | \$250,693 | 32% | 0.0 |
| PECO | Indoor Daylight Sensors | Lighting w/ No Controls | Grocery | Other Int. Lighting | Existing | building | 15,334 | 28% | 0.3 | 8 | \$1,459 | 13% | 1.1 |
| PECO | Indoor Daylight Sensors | Lighting w/ No Controls | Grocery | Other Int. Lighting | New | building | 15,334 | 4.1% | 0.04 | 8 | \$1,459 | 0% | 0.2 |
| PECO | LED Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Grocery | Other Int. Lighting | Early | sign | 153 | 87% | 0.02 | 15 | \$48 | 16% | 1.9 |
| PECO | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Grocery | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 2.1 |
| PECO | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Grocery | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 2.1 |
| PECO | LED Task Lighting/Screw-In | 1 15W CFL bulb | Grocery | Other Int. Lighting | Early | lamp | 115 | 33% | 0.01 | 3 | \$9.6 | 20% | 0.7 |
| PECO | LED Task Lighting/Screw-In | 1 60W Incandescent Bulb | Grocery | Other Int. Lighting | Early | lamp | 460 | 83% | 0.06 | 3 | \$9.6 | 20% | 6.9 |
| PECO | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Grocery | Other Int. Lighting | New | lamp | 251 | 77% | 0.03 | 3 | \$7.9 | 20% | 4.2 |
| PECO | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Grocery | Other Int. Lighting | New | lamp | 251 | 77% | 0.03 | 3 | \$7.9 | 20% | 4.2 |
| PECO | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Grocery | Other Int. Lighting | ROB | lamp | 330 | 77% | 0.04 | 3 | \$7.9 | 20% | 5.5 |
| PECO | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Grocery | Other Int. Lighting | ROB | lamp | 330 | 77% | 0.04 | 3 | \$7.9 | 20% | 5.5 |
| PECO | Occupancy Sensor | Lighting w/ No Controls | Grocery | Other Int. Lighting | Existing | building | 15,334 | 24% | 0.2 | 8 | \$447 | 12% | 3.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---|---|---------|---------------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Occupancy Sensor | Lighting w/ No Controls | Grocery | Other Int. Lighting | New | building | 15,334 | 7.0% | 0.07 | 8 | \$447 | 0% | 0.9 |
| PECO | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Grocery | Other Int. Lighting | Existing | building | 15,334 | 28% | 0.3 | 8 | \$1,459 | 12% | 1.1 |
| PECO | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Grocery | Other Int. Lighting | New | building | 15,334 | 4.1% | 0.04 | 8 | \$1,459 | 0% | 0.2 |
| PECO | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Grocery | Other Int. Lighting | Early | exit sign | 134 | 100% | 0.02 | 15 | \$173 | 26% | 0.5 |
| PECO | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Grocery | Other Int. Lighting | New | exit sign | 77 | 100% | 0.01 | 15 | \$148 | 31% | 0.4 |
| PECO | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Grocery | Other Int. Lighting | ROB | exit sign | 77 | 100% | 0.01 | 15 | \$148 | 26% | 0.4 |
| PECO | Time Clock Control | Lighting w/ No Controls | Grocery | Other Int. Lighting | Existing | building | 15,334 | 28% | 0.3 | 8 | \$296 | 13% | 5.5 |
| PECO | Time Clock Control | Lighting w/ No Controls | Grocery | Other Int. Lighting | New | building | 15,334 | 4.1% | 0.04 | 8 | \$296 | 0% | 0.8 |
| PECO | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Grocery | Plug Load | Existing | building | 2,913 | 46% | 0.5 | 5 | \$189 | 4% | 2.6 |
| PECO | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Grocery | Plug Load | New | building | 1,422 | 46% | 0.5 | 5 | \$189 | 4% | 1.8 |
| PECO | Data Center - Server/Storage Consolidation | No Consolidation | Grocery | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PECO | Data Center - Server/Storage Consolidation | No Consolidation | Grocery | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PECO | Data Center - Server/Storage Virtualization | No Virtualization | Grocery | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PECO | Data Center - Server/Storage Virtualization | No Virtualization | Grocery | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PECO | Energy Star - Scanners | Std Scanner | Grocery | Plug Load | New | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| PECO | Energy Star - Scanners | Std Scanner | Grocery | Plug Load | ROB | measure | 68 | 3.8% | 0.04 | 4 | \$130 | 7% | 0.1 |
| PECO | Energy Star Battery Charging System (for small cordless products) | Std. Battery Charging System | Grocery | Plug Load | ROB | measure | 593 | 2.3% | 0.10 | 5 | \$65 | 4% | 0.7 |
| PECO | Energy Star Dishwasher | Existing Dishwasher units | Grocery | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,580 | 16% | 1.1 |
| PECO | Energy Star Dishwasher | Standard Dishwasher unit | Grocery | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 16% | 3.6 |
| PECO | Energy Star Dishwasher | Standard Dishwasher unit | Grocery | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 16% | 3.6 |
| PECO | Energy Star External Power Adapter | Std. Power Adapter | Grocery | Plug Load | New | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| PECO | Energy Star External Power Adapter | Std. Power Adapter | Grocery | Plug Load | ROB | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| PECO | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Grocery | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 17% | 0.2 |
| PECO | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Grocery | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.3 |
| PECO | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Grocery | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.3 |
| PECO | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Grocery | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 9% | 0.8 |
| PECO | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Grocery | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.8 |
| PECO | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Grocery | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.8 |
| PECO | ENERGY STAR® Copiers | 10% Less Efficient Copier | Grocery | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 18% | 0.0 |
| PECO | ENERGY STAR® Copiers | One Conventional Copier | Grocery | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| PECO | ENERGY STAR® Copiers | One Conventional Copier | Grocery | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| PECO | ENERGY STAR® desktop | Standard computer | Grocery | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 69% | 0.1 |
| PECO | ENERGY STAR® desktop | Standard computer | Grocery | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.4 |
| PECO | ENERGY STAR® desktop | Standard computer | Grocery | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.4 |
| PECO | ENERGY STAR® Fax | 10% Less Efficient Fax | Grocery | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 15% | 0.0 |
| PECO | ENERGY STAR® Fax | One Conventional Fax | Grocery | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| PECO | ENERGY STAR® Fax | One Conventional Fax | Grocery | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| PECO | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Grocery | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 70% | 0.0 |
| PECO | ENERGY STAR® Monitors | One Conventional Monitor | Grocery | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| PECO | ENERGY STAR® Monitors | One Conventional Monitor | Grocery | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| PECO | ENERGY STAR® Printers | 10% Less Efficient Printer | Grocery | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 44% | 0.0 |
| PECO | ENERGY STAR® Printers | One Conventional Printer | Grocery | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.4 |
| PECO | ENERGY STAR® Printers | One Conventional Printer | Grocery | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.4 |
| PECO | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Grocery | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 43% | 0.1 |
| PECO | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Grocery | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.8 |
| PECO | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Grocery | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.8 |
| PECO | ENERGY STAR® Televisions | 10% Less Efficient Television | Grocery | Plug Load | Early | Unit | 505 | 38% | 0.03 | 6 | \$672 | 40% | 0.1 |
| PECO | ENERGY STAR® Televisions | One Conventional Television | Grocery | Plug Load | New | Unit | 459 | 32% | 0.02 | 6 | \$206 | 40% | 0.2 |
| PECO | ENERGY STAR® Televisions | One Conventional Television | Grocery | Plug Load | ROB | Unit | 459 | 32% | 0.02 | 6 | \$206 | 40% | 0.2 |
| PECO | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Grocery | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 24% | 0.3 |
| PECO | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Grocery | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.7 |
| PECO | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Grocery | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.7 |
| PECO | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Grocery | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.3 |
| PECO | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Grocery | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.3 |
| PECO | Network PC Power Management | No PC Power Management | Grocery | Plug Load | Existing | building | 425 | 33% | 0.3 | 5 | \$12 | 38% | 22.7 |
| PECO | Network PC Power Management | No PC Power Management | Grocery | Plug Load | New | building | 425 | 33% | 0.3 | 5 | \$12 | 38% | 22.7 |
| PECO | Smart Strip Plug Outlets | Standard plug strip/outlet | Grocery | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.4 |
| PECO | Smart Strip Plug Outlets | Standard plug strip/outlet | Grocery | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.4 |
| PECO | Smart Strip Plug Outlets | Standard plug strip/outlet | Grocery | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PECO | Smart Strip Plug Outlets | Standard plug strip/outlet | Grocery | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PECO | Smart Strip Plug Outlets | Standard plug strip/outlet | Grocery | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PECO | Smart Strip Plug Outlets | Standard plug strip/outlet | Grocery | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PECO | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Grocery | Plug Load | Existing | building | 2,913 | 46% | 0.5 | 5 | \$180 | 3% | 2.7 |
| PECO | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Grocery | Plug Load | New | building | 1,422 | 46% | 0.5 | 5 | \$180 | 3% | 1.9 |
| PECO | Air curtain technology | Strip plastic curtain | Grocery | Refrigeration | New | building | 75,112 | 3.1% | 0.03 | 8 | \$132 | 35% | 5.7 |
| PECO | Air curtain technology | Strip plastic curtain | Grocery | Refrigeration | New | building | 40,122 | 3.1% | 0.03 | 8 | \$132 | 35% | 3.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---|---|---------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Grocery | Refrigeration | Existing | building | 90,135 | 0.7% | 0.01 | 12 | \$70 | 11% | 4.3 |
| PECO | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Grocery | Refrigeration | New | building | 90,135 | 0.7% | 0.01 | 12 | \$70 | 11% | 4.3 |
| PECO | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Grocery | Refrigeration | Existing | building | 90,135 | 1.5% | 0.02 | 12 | \$70 | 11% | 8.8 |
| PECO | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Grocery | Refrigeration | New | building | 90,135 | 1.5% | 0.02 | 12 | \$70 | 11% | 8.8 |
| PECO | Auto Closer on Refrigerator Door | Door w/out Autocloser | Grocery | Refrigeration | Existing | building | 75,112 | 1.4% | 0.01 | 8 | \$817 | 40% | 0.4 |
| PECO | Auto Closer on Refrigerator Door | Door w/out Autocloser | Grocery | Refrigeration | Existing | building | 40,122 | 1.1% | 0.01 | 8 | \$1,208 | 40% | 0.1 |
| PECO | Auto Closer on Refrigerator Door | Door w/out Autocloser | Grocery | Refrigeration | New | building | 75,112 | 1.4% | 0.01 | 8 | \$817 | 40% | 0.4 |
| PECO | Auto Closer on Refrigerator Door | Door w/out Autocloser | Grocery | Refrigeration | New | building | 40,122 | 1.1% | 0.01 | 8 | \$1,208 | 40% | 0.1 |
| PECO | Demand Hot Gas Defrost | Base Refrigeration System | Grocery | Refrigeration | Existing | building | 90,135 | 3.0% | 0.03 | 10 | \$1,312 | 83% | 0.8 |
| PECO | Demand Hot Gas Defrost | Base Refrigeration System | Grocery | Refrigeration | New | building | 90,135 | 3.0% | 0.03 | 10 | \$1,312 | 79% | 0.8 |
| PECO | Door Gasket- Freezer | Door w/out Gasket | Grocery | Refrigeration | Existing | building | 75,112 | 0.9% | 0.01 | 4 | \$84 | 29% | 1.4 |
| PECO | Door Gasket- Freezer | Door w/out Gasket | Grocery | Refrigeration | New | building | 75,112 | 0.9% | 0.01 | 4 | \$84 | 29% | 1.4 |
| PECO | Door Gasket- Refrigerator | Door w/out Gasket | Grocery | Refrigeration | Existing | building | 40,122 | 0.4% | 0.00 | 4 | \$167 | 45% | 0.2 |
| PECO | Door Gasket- Refrigerator | Door w/out Gasket | Grocery | Refrigeration | New | building | 40,122 | 0.4% | 0.00 | 4 | \$167 | 45% | 0.2 |
| PECO | Economizer for Walk-in Coolers | No Economizer | Grocery | Refrigeration | Early | measure | 213,168 | 12% | 3.6 | 10 | \$2,237 | 72% | 5.7 |
| PECO | Economizer for Walk-in Coolers | No Economizer | Grocery | Refrigeration | Early | measure | 213,168 | 12% | 3.6 | 10 | \$2,237 | 72% | 5.7 |
| PECO | Economizer for Walk-in Coolers | No Economizer | Grocery | Refrigeration | Early | measure | 213,168 | 12% | 3.6 | 10 | \$2,237 | 72% | 5.7 |
| PECO | Economizer for Walk-in Coolers | No Economizer | Grocery | Refrigeration | New | measure | 213,168 | 12% | 3.6 | 10 | \$176 | 72% | 72.3 |
| PECO | Economizer for Walk-in Coolers | No Economizer | Grocery | Refrigeration | New | measure | 213,168 | 12% | 3.6 | 10 | \$176 | 72% | 72.3 |
| PECO | Economizer for Walk-in Coolers | No Economizer | Grocery | Refrigeration | New | measure | 213,168 | 12% | 3.6 | 10 | \$176 | 72% | 72.3 |
| PECO | Economizer for Walk-in Coolers | No Economizer | Grocery | Refrigeration | ROB | measure | 213,168 | 12% | 3.6 | 10 | \$176 | 72% | 72.3 |
| PECO | Economizer for Walk-in Coolers | No Economizer | Grocery | Refrigeration | ROB | measure | 213,168 | 12% | 3.6 | 10 | \$176 | 72% | 72.3 |
| PECO | Economizer for Walk-in Coolers | No Economizer | Grocery | Refrigeration | ROB | measure | 213,168 | 12% | 3.6 | 10 | \$176 | 72% | 72.3 |
| PECO | eCube | Refrigeration unit w/out eCube | Grocery | Refrigeration | Existing | building | 40,122 | 15% | 0.2 | 15 | \$637 | 57% | 5.2 |
| PECO | eCube | Refrigeration unit w/out eCube | Grocery | Refrigeration | New | building | 40,122 | 15% | 0.2 | 15 | \$637 | 57% | 5.2 |
| PECO | Efficient compressor motor | Base Refrigeration System - Grocery | Grocery | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 83% | 2.7 |
| PECO | Efficient compressor motor | Base Refrigeration System - Grocery | Grocery | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 83% | 2.7 |
| PECO | Efficient compressor motor | Base Refrigeration System - Grocery | Grocery | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 83% | 2.7 |
| PECO | Efficient compressor motor | Base Refrigeration System - Grocery | Grocery | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 83% | 2.7 |
| PECO | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Grocery | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.6 |
| PECO | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Grocery | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| PECO | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Grocery | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| PECO | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Grocery | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.3 |
| PECO | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Grocery | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.8 |
| PECO | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Grocery | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.8 |
| PECO | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Grocery | Refrigeration | Existing | building | 40,122 | 0.2% | 0.00 | 10 | \$369 | 77% | 0.1 |
| PECO | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Grocery | Refrigeration | New | building | 40,122 | 0.2% | 0.00 | 10 | \$369 | 77% | 0.1 |
| PECO | Floating head pressure controller | System w/out FHPC | Grocery | Refrigeration | Existing | building | 75,112 | 1.8% | 0.01 | 15 | \$8,682 | 41% | 0.1 |
| PECO | Floating head pressure controller | System w/out FHPC | Grocery | Refrigeration | Existing | building | 40,122 | 1.2% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| PECO | Floating head pressure controller | System w/out FHPC | Grocery | Refrigeration | Existing | building | 90,135 | 0.6% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| PECO | Floating head pressure controller | System w/out FHPC | Grocery | Refrigeration | New | building | 75,112 | 1.8% | 0.01 | 15 | \$8,682 | 41% | 0.1 |
| PECO | Floating head pressure controller | System w/out FHPC | Grocery | Refrigeration | New | building | 40,122 | 1.2% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| PECO | Floating head pressure controller | System w/out FHPC | Grocery | Refrigeration | New | building | 90,135 | 0.6% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| PECO | High Efficiency Commercial Freezer | Std. Commercial Freezer | Grocery | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 79% | 0.3 |
| PECO | High Efficiency Commercial Freezer | Std. Commercial Freezer | Grocery | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 79% | 4.2 |
| PECO | High Efficiency Commercial Freezer | Std. Commercial Freezer | Grocery | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 79% | 4.2 |
| PECO | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Grocery | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 79% | 0.1 |
| PECO | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Grocery | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 79% | 0.9 |
| PECO | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Grocery | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 79% | 0.9 |
| PECO | High Efficiency Ice Maker | Exisiting Standard Efficiency Ice Maker in Pennsylvania | Grocery | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 69% | 0.2 |
| PECO | High Efficiency Ice Maker | Standard code minimum Ice Maker | Grocery | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 69% | 0.2 |
| PECO | High Efficiency Ice Maker | Standard code minimum Ice Maker | Grocery | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 69% | 0.2 |
| PECO | High Efficiency Ice Making Head | Standard Ice Making Head | Grocery | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 4.1 |
| PECO | High Efficiency Ice Making Head | Standard Ice Making Head | Grocery | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 4.1 |
| PECO | High R-Value Glass Doors | Base Refrigeration System - Grocery | Grocery | Refrigeration | Existing | building | 90,135 | 0.7% | 0.01 | 10 | \$314 | 90% | 0.8 |
| PECO | High R-Value Glass Doors | Base Refrigeration System - Grocery | Grocery | Refrigeration | New | building | 90,135 | 0.7% | 0.01 | 10 | \$314 | 90% | 0.8 |
| PECO | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Grocery | Refrigeration | Early | Fixture | 373 | 56% | 0.03 | 8 | \$448 | 89% | 0.2 |
| PECO | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Grocery | Refrigeration | New | Fixture | 291 | 44% | 0.02 | 8 | \$139 | 89% | 0.4 |
| PECO | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Grocery | Refrigeration | ROB | Fixture | 291 | 44% | 0.02 | 8 | \$139 | 89% | 0.4 |
| PECO | No-heat glass doors | Standard low-temp reach-in | Grocery | Refrigeration | Existing | building | 90,135 | 20% | 0.2 | 10 | \$28,699 | 8% | 0.2 |
| PECO | No-heat glass doors | Standard low-temp reach-in | Grocery | Refrigeration | New | building | 90,135 | 20% | 0.2 | 10 | \$28,699 | 8% | 0.2 |
| PECO | Quick acting freezer doors | Std. Freezer Doors | Grocery | Refrigeration | Existing | building | 75,112 | 13% | 0.1 | 10 | \$16,888 | 56% | 0.2 |
| PECO | Quick acting freezer doors | Std. Freezer Doors | Grocery | Refrigeration | New | building | 75,112 | 13% | 0.1 | 10 | \$16,888 | 56% | 0.2 |
| PECO | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Grocery | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 29% | 0.4 |
| PECO | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Grocery | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 29% | 1.6 |
| PECO | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Grocery | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 29% | 1.6 |
| PECO | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 29% | 1.7 |
| PECO | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 29% | 3.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---|--|---------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 29% | 3.0 |
| PECO | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 29% | 1.7 |
| PECO | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 29% | 4.0 |
| PECO | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 29% | 4.0 |
| PECO | Refrigeration Commissioning | Non-commissioned refrigeration system | Grocery | Refrigeration | Existing | building | 212,818 | 9.5% | 0.10 | 3 | \$35,188 | 85% | 0.1 |
| PECO | Refrigeration Commissioning | Non-commissioned refrigeration system | Grocery | Refrigeration | New | building | 212,818 | 9.5% | 0.10 | 3 | \$35,188 | 85% | 0.1 |
| PECO | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Grocery | Refrigeration | Existing | building | 75,112 | 1.8% | 0.02 | 4 | \$102 | 22% | 2.2 |
| PECO | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Grocery | Refrigeration | Existing | building | 40,122 | 0.5% | 0.01 | 4 | \$203 | 22% | 0.2 |
| PECO | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Grocery | Refrigeration | New | building | 75,112 | 1.8% | 0.02 | 4 | \$102 | 22% | 2.2 |
| PECO | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Grocery | Refrigeration | New | building | 40,122 | 0.5% | 0.01 | 4 | \$203 | 22% | 0.2 |
| PECO | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Grocery | Refrigeration | Existing | building | 75,112 | 0.4% | 0.00 | 11 | \$167 | 77% | 0.8 |
| PECO | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Grocery | Refrigeration | New | building | 75,112 | 0.4% | 0.00 | 11 | \$167 | 77% | 0.8 |
| PECO | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Grocery | Refrigeration | Existing | building | 40,122 | 0.3% | 0.00 | 11 | \$167 | 77% | 0.3 |
| PECO | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Grocery | Refrigeration | New | building | 40,122 | 0.3% | 0.00 | 11 | \$167 | 77% | 0.3 |
| PECO | Vendor Miser | No Vendor Miser | Grocery | Refrigeration | Existing | building | 7,449 | 0.5% | 0.00 | 8 | \$33 | 7% | 0.4 |
| PECO | Vertical Night Covers | Display cases w/out night covers-High Temperature | Grocery | Refrigeration | Existing | building | 90,135 | 0.1% | 0.00 | 5 | \$242 | 9% | 0.1 |
| PECO | Vertical Night Covers | Display cases w/out night covers-High Temperature | Grocery | Refrigeration | New | building | 90,135 | 0.1% | 0.00 | 5 | \$242 | 9% | 0.1 |
| PECO | VSD Controlled Compressor | Compressor w/out VSD | Grocery | Refrigeration | Early | Refrigerator | 7,487 | 14% | 0.1 | 15 | \$731 | 73% | 1.0 |
| PECO | VSD Controlled Compressor | Compressor w/out VSD | Grocery | Refrigeration | New | Refrigerator | 7,487 | 14% | 0.1 | 15 | \$731 | 73% | 1.0 |
| PECO | VSD Controlled Compressor | Compressor w/out VSD | Grocery | Refrigeration | ROB | Refrigerator | 7,487 | 14% | 0.1 | 15 | \$731 | 73% | 1.0 |
| PECO | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Grocery | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$269 | 35% | 0.9 |
| PECO | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Grocery | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$269 | 35% | 0.9 |
| PECO | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Grocery | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.2 |
| PECO | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Grocery | Refrigeration | New | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 3.0 |
| PECO | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Grocery | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.2 |
| PECO | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Grocery | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 3.0 |
| PECO | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 35% | 2.4 |
| PECO | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 35% | 2.3 |
| PECO | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 5.2 |
| PECO | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.9 |
| PECO | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 5.2 |
| PECO | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.9 |
| PECO | Adding reflective roof treatment | Std color roof | Grocery | Space Heating | Existing | building | 16,558 | 7.1% | 0.07 | 6 | \$25,394 | 82% | 0.0 |
| PECO | Adding reflective roof treatment | Std color roof | Grocery | Space Heating | New | building | 16,558 | 7.1% | 0.07 | 6 | \$25,394 | 82% | 0.0 |
| PECO | Adding window shade film | No shade film | Grocery | Space Heating | Existing | building | 16,558 | 1.3% | 0.4 | 10 | \$201 | 13% | 1.9 |
| PECO | Adding window shade film | No shade film | Grocery | Space Heating | New | building | 16,558 | 1.3% | 0.4 | 10 | \$201 | 13% | 1.9 |
| PECO | Adding window shade screen | No shade screen | Grocery | Space Heating | Existing | building | 16,558 | 1.1% | 0.01 | 10 | \$78 | 13% | 1.0 |
| PECO | Adding window shade screen | No shade screen | Grocery | Space Heating | New | building | 16,558 | 1.1% | 0.01 | 10 | \$78 | 13% | 1.0 |
| PECO | Automated control system | Manual Controls | Grocery | Space Heating | Existing | building | 16,558 | 17% | 0.2 | 15 | \$18,127 | 51% | 0.1 |
| PECO | Automated control system | Manual Controls | Grocery | Space Heating | New | building | 16,558 | 17% | 0.2 | 15 | \$18,127 | 94% | 0.1 |
| PECO | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Grocery | Space Heating | Existing | building | 16,558 | 9.8% | 0.10 | 15 | \$33,930 | 71% | 0.0 |
| PECO | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Grocery | Space Heating | New | building | 16,558 | 3.3% | 0.03 | 15 | \$32,251 | 94% | 0.0 |
| PECO | Duct Insulation, Add R8 | No Insulation | Grocery | Space Heating | Existing | building | 16,558 | 1.4% | 0.04 | 15 | \$132 | 20% | 1.2 |
| PECO | Duct Insulation, Add R8 | No Insulation | Grocery | Space Heating | New | building | 16,558 | 1.4% | 0.04 | 15 | \$132 | 10% | 1.2 |
| PECO | Efficient Unit Heating System | Existing Unit Heaters in PA | Grocery | Space Heating | Early | heater | 40,190 | 23% | 0.08 | 15 | \$3,289 | 83% | 1.5 |
| PECO | Efficient Unit Heating System | Std. Unit Heater | Grocery | Space Heating | New | heater | 35,668 | 13% | 0.04 | 15 | \$1,991 | 83% | 1.2 |
| PECO | Efficient Unit Heating System | Std. Unit Heater | Grocery | Space Heating | ROB | heater | 35,668 | 13% | 0.04 | 15 | \$1,991 | 83% | 1.2 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Grocery | Space Heating | Existing | building | 16,558 | 7.1% | 0.07 | 15 | \$73,447 | 25% | 0.0 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Grocery | Space Heating | New | building | 16,558 | 7.1% | 0.07 | 15 | \$73,447 | 35% | 0.0 |
| PECO | Hi Eff HVAC System Design | No HVAC Design | Grocery | Space Heating | New | building | 16,558 | 9.3% | 0.09 | 10 | \$951,979 | 51% | 0.0 |
| PECO | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Grocery | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 1.1 |
| PECO | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Grocery | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 1.1 |
| PECO | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Grocery | Space Heating | Existing | building | 16,558 | 1.1% | 0.01 | 10 | \$7,735 | 81% | 0.0 |
| PECO | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Grocery | Space Heating | New | building | 16,558 | 1.1% | 0.01 | 10 | \$7,735 | 81% | 0.0 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Grocery | Space Heating | Existing | building | 16,558 | 3.6% | 0.04 | 11 | \$286 | 49% | 1.0 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Grocery | Space Heating | New | building | 16,558 | 3.1% | 0.03 | 11 | \$146 | 49% | 1.6 |
| PECO | Re-Commissioning (Existing Construction) | No Re-Commissioning | Grocery | Space Heating | Existing | building | 16,558 | 16% | 0.2 | 5 | \$19,254 | 86% | 0.0 |
| PECO | VFD on Cooling Tower Fan | Motor w/out VFD | Grocery | Space Heating | Early | motor | 18,724 | 70% | 3.4 | 15 | \$2,843 | 88% | 3.7 |
| PECO | VFD on Cooling Tower Fan | Motor w/out VFD | Grocery | Space Heating | New | motor | 18,373 | 72% | 3.3 | 15 | \$2,843 | 88% | 3.7 |
| PECO | VFD on Cooling Tower Fan | Motor w/out VFD | Grocery | Space Heating | ROB | motor | 18,373 | 72% | 3.3 | 15 | \$2,843 | 88% | 3.7 |
| PECO | Wall Insualtions (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Grocery | Space Heating | Existing | building | 16,558 | 19% | 0.2 | 15 | \$7,224 | 26% | 0.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|--|---|------------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Wall Insulations (Going upto R 21) | Code minimum Wall Insulations | Grocery | Space Heating | New | building | 16,558 | 0.5% | 0.01 | 15 | \$5,541 | 94% | 0.0 |
| PECO | Green LED Traffic Light | Green Incandescent Traffic Light | Grocery | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 0% | 1.3 |
| PECO | Green LED Traffic Light | Green Incandescent Traffic Light | Grocery | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.2 |
| PECO | Green LED Traffic Light | Green Incandescent Traffic Light | Grocery | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.2 |
| PECO | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Grocery | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 0% | 3.2 |
| PECO | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Grocery | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| PECO | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Grocery | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| PECO | Induction Street Lighting | One 100W HPS Street Light Fixture | Grocery | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 0% | 0.3 |
| PECO | Induction Street Lighting | One 100W HPS Street Light Fixture | Grocery | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.8 |
| PECO | Induction Street Lighting | One 100W HPS Street Light Fixture | Grocery | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.8 |
| PECO | LED Street Lighting | One 100W HPS Street Light | Grocery | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 0% | 0.2 |
| PECO | LED Street Lighting | One 100W HPS Street Light | Grocery | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| PECO | LED Street Lighting | One 100W HPS Street Light | Grocery | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| PECO | Red LED Traffic Light | One Red Incandescent Traffic Light | Grocery | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 0% | 1.7 |
| PECO | Red LED Traffic Light | One Red Incandescent Traffic Light | Grocery | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| PECO | Red LED Traffic Light | One Red Incandescent Traffic Light | Grocery | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| PECO | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Grocery | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 0% | 0.1 |
| PECO | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Grocery | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| PECO | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Grocery | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| PECO | Demand controlled Circulating Systems | Constant circulation system | Grocery | Water Heating | Existing | building | 1,415 | 20% | 0.2 | 15 | \$257 | 59% | 1.4 |
| PECO | Demand controlled Circulating Systems | Constant circulation system | Grocery | Water Heating | New | building | 1,415 | 20% | 0.2 | 15 | \$257 | 59% | 1.4 |
| PECO | Drainwater Heat Recovery Water Heater | No heat recovery | Grocery | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 2.0 |
| PECO | Drainwater Heat Recovery Water Heater | No heat recovery | Grocery | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 2.0 |
| PECO | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Grocery | Water Heating | Existing | building | 1,415 | 5.9% | 0.06 | 12 | \$28 | 85% | 3.3 |
| PECO | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Grocery | Water Heating | New | building | 1,415 | 5.9% | 0.06 | 12 | \$8.0 | 85% | 11.5 |
| PECO | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Grocery | Water Heating | Early | water heater | 86,559 | 66% | 10.1 | 10 | \$3,562 | 68% | 8.6 |
| PECO | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Grocery | Water Heating | Early | water heater | 86,559 | 66% | 10.1 | 10 | \$3,562 | 68% | 8.6 |
| PECO | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Grocery | Water Heating | New | water heater | 86,559 | 66% | 10.1 | 10 | \$3,562 | 68% | 8.6 |
| PECO | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Grocery | Water Heating | New | water heater | 86,559 | 66% | 10.1 | 10 | \$3,562 | 68% | 8.6 |
| PECO | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Grocery | Water Heating | ROB | water heater | 84,155 | 65% | 9.7 | 10 | \$3,562 | 68% | 8.3 |
| PECO | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Grocery | Water Heating | ROB | water heater | 84,155 | 65% | 9.7 | 10 | \$3,562 | 68% | 8.3 |
| PECO | Heat Recovery Unit | Base Water Heating | Grocery | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.7 |
| PECO | Heat Recovery Unit | Base Water Heating | Grocery | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.7 |
| PECO | Heat Trap | No Heat Trap | Grocery | Water Heating | Existing | building | 1,415 | 22% | 0.2 | 11 | \$9.6 | 50% | 33.7 |
| PECO | Heat Trap | No Heat Trap | Grocery | Water Heating | New | building | 1,415 | 22% | 0.2 | 11 | \$1.4 | 50% | 226.2 |
| PECO | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Grocery | Water Heating | Early | water heater | 86,559 | 5.9% | 0.9 | 15 | \$921 | 79% | 4.1 |
| PECO | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Grocery | Water Heating | Early | water heater | 86,559 | 5.9% | 0.9 | 15 | \$921 | 79% | 4.1 |
| PECO | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Grocery | Water Heating | New | water heater | 84,155 | 3.2% | 0.5 | 15 | \$921 | 79% | 2.2 |
| PECO | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Grocery | Water Heating | New | water heater | 84,155 | 3.2% | 0.5 | 15 | \$921 | 79% | 2.2 |
| PECO | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Grocery | Water Heating | ROB | water heater | 84,155 | 3.2% | 0.5 | 15 | \$921 | 79% | 2.2 |
| PECO | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Grocery | Water Heating | ROB | water heater | 84,155 | 3.2% | 0.5 | 15 | \$921 | 79% | 2.2 |
| PECO | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Grocery | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$466 | 81% | 41.5 |
| PECO | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Grocery | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 21.6 |
| PECO | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Grocery | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 21.6 |
| PECO | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Grocery | Water Heating | Existing | building | 1,415 | 4.3% | 0.04 | 13 | \$9.2 | 68% | 7.7 |
| PECO | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Grocery | Water Heating | New | building | 1,415 | 4.3% | 0.04 | 13 | \$9.2 | 0% | 7.7 |
| PECO | Hot Water Circulation Pump Time-Clock | Constant circulation system | Grocery | Water Heating | Existing | building | 1,415 | 5.3% | 0.05 | 10 | \$5.7 | 72% | 12.6 |
| PECO | Hot Water Circulation Pump Time-Clock | Constant circulation system | Grocery | Water Heating | New | building | 1,415 | 5.3% | 0.05 | 10 | \$5.7 | 72% | 12.6 |
| PECO | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Grocery | Water Heating | Existing | building | 1,300 | 0.1% | 0.00 | 7 | \$22 | 78% | 0.0 |
| PECO | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Grocery | Water Heating | New | building | 1,300 | 0.1% | 0.00 | 7 | \$0.5 | 78% | 2.1 |
| PECO | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Grocery | Water Heating | Existing | building | 1,415 | 13% | 0.1 | 5 | \$300 | 20% | 0.3 |
| PECO | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Grocery | Water Heating | New | building | 1,415 | 8.9% | 0.09 | 5 | \$194 | 20% | 0.3 |
| PECO | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Grocery | Water Heating | Existing | building | 1,415 | 6.5% | 0.07 | 9 | \$25 | 2% | 3.2 |
| PECO | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Grocery | Water Heating | New | building | 1,415 | 6.5% | 0.07 | 9 | \$6.0 | 2% | 13.5 |
| PECO | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Grocery | Water Heating | Early | water heater | 86,559 | 52% | 3.7 | 15 | \$18,666 | 32% | 1.5 |
| PECO | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Grocery | Water Heating | New | water heater | 84,155 | 51% | 3.5 | 15 | \$18,666 | 32% | 1.5 |
| PECO | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Grocery | Water Heating | ROB | water heater | 84,155 | 51% | 3.5 | 15 | \$18,666 | 32% | 1.5 |
| PECO | Ultrasonic Faucet Control | Manual Faucet Control | Grocery | Water Heating | Existing | building | 1,415 | 3.0% | 0.03 | 10 | \$245 | 77% | 0.2 |
| PECO | Ultrasonic Faucet Control | Manual Faucet Control | Grocery | Water Heating | New | building | 1,415 | 3.1% | 0.03 | 10 | \$245 | 77% | 0.2 |
| PECO | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Grocery | Water Heating | Existing | building | 1,415 | 2.2% | 0.02 | 4 | \$28 | 83% | 0.5 |
| PECO | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Grocery | Water Heating | New | building | 1,415 | 2.3% | 0.02 | 4 | \$28 | 83% | 0.5 |
| PECO | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Healthcare | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.2 |
| PECO | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Healthcare | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.2 |
| PECO | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Healthcare | Cooking | Early | steamer | 51 | 46% | 0.00 | 12 | \$5,053 | 81% | 0.0 |
| PECO | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Healthcare | Cooking | New | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| PECO | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Healthcare | Cooking | ROB | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| PECO | Electric combination oven (Energy Star) | Standard Oven | Healthcare | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 3.3 |
| PECO | Electric combination oven (Energy Star) | Standard Oven | Healthcare | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 3.3 |
| PECO | Electric Convection Oven | Conventional convection oven w/ 65% efficiency | Healthcare | Cooking | Early | oven | 8,641 | 37% | 0.6 | 12 | \$4,119 | 81% | 0.5 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|--|---|------------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Healthcare | Cooking | New | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.8 |
| PECO | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Healthcare | Cooking | ROB | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.8 |
| PECO | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Healthcare | Cooking | Early | fryer | 6,105 | 23% | 0.3 | 12 | \$9,241 | 86% | 0.1 |
| PECO | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Healthcare | Cooking | New | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.4 |
| PECO | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Healthcare | Cooking | ROB | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.4 |
| PECO | High Efficiency Griddle (ENERGY STAR) | Efficiency code minimum griddle (70% eff) | Healthcare | Cooking | Early | griddle | 11,317 | 65% | 1.4 | 12 | \$4,977 | 86% | 1.0 |
| PECO | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Healthcare | Cooking | New | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.3 |
| PECO | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Healthcare | Cooking | ROB | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.3 |
| PECO | High Efficiency Induction Cooking | Standard Cooking | Healthcare | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.2 |
| PECO | High Efficiency Induction Cooking | Standard Cooking | Healthcare | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.2 |
| PECO | Solid-state temperature controls | No Solid State Controls | Healthcare | Cooking | Existing | building | 15,356 | 3.6% | 0.04 | 12 | \$69 | 34% | 4.3 |
| PECO | Active chilled beam cooling | No Active Chilled beam cooling | Healthcare | Cooling Central | New | building | 10,288 | 5.3% | 0.05 | 15 | \$2,690 | 72% | 0.1 |
| PECO | Adding reflective roof treatment | Std color roof | Healthcare | Cooling Central | Existing | building | 10,830 | 7.0% | 0.07 | 6 | \$15,370 | 82% | 0.0 |
| PECO | Adding reflective roof treatment | Std color roof | Healthcare | Cooling Central | New | building | 10,830 | 7.0% | 0.07 | 6 | \$15,370 | 82% | 0.0 |
| PECO | Adding window shade film | No shade film | Healthcare | Cooling Central | Existing | building | 10,830 | 1.3% | 0.4 | 10 | \$132 | 12% | 2.7 |
| PECO | Adding window shade film | No shade film | Healthcare | Cooling Central | New | building | 10,830 | 1.3% | 0.4 | 10 | \$132 | 13% | 2.7 |
| PECO | Adding window shade screen | No shade screen | Healthcare | Cooling Central | Existing | building | 10,830 | 1.0% | 0.01 | 10 | \$51 | 13% | 1.1 |
| PECO | Adding window shade screen | No shade screen | Healthcare | Cooling Central | New | building | 10,830 | 1.1% | 0.01 | 10 | \$51 | 13% | 1.1 |
| PECO | Automated control system | Manual Controls | Healthcare | Cooling Central | Existing | building | 10,830 | 17% | 0.2 | 15 | \$11,856 | 51% | 0.1 |
| PECO | Automated control system | Manual Controls | Healthcare | Cooling Central | New | building | 10,830 | 17% | 0.2 | 15 | \$11,856 | 94% | 0.1 |
| PECO | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Healthcare | Cooling Central | Existing | building | 10,830 | 1.0% | 0.01 | 15 | \$20,566 | 71% | 0.0 |
| PECO | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Healthcare | Cooling Central | New | building | 10,830 | 0.3% | 0.00 | 15 | \$19,549 | 94% | 0.0 |
| PECO | Chilled Water Reset, Optimizer System for Chiller(s) | No Chilled Water Reset | Healthcare | Cooling Central | Existing | building | 10,830 | 3.7% | 0.04 | 10 | \$49 | 69% | 3.9 |
| PECO | Chiller Tune Up Diagnostics | No Chiller Tune Up | Healthcare | Cooling Central | Existing | building | 10,830 | 2.3% | 0.02 | 10 | \$11 | 59% | 11.1 |
| PECO | Chiller Tuneup/Diagnostics | No tuneup | Healthcare | Cooling Central | Existing | building | 10,830 | 8.0% | 0.08 | 10 | \$27,654 | 59% | 0.0 |
| PECO | Chiller Tuneup/Diagnostics | No tuneup | Healthcare | Cooling Central | New | building | 10,830 | 8.0% | 0.08 | 10 | \$27,654 | 59% | 0.0 |
| PECO | Cooling Tower Optimization | No Cooling Tower Optimization | Healthcare | Cooling Central | Existing | building | 10,830 | 4.9% | 0.05 | 10 | \$49 | 73% | 5.2 |
| PECO | Duct Insulation, Add R8 | No Insulation | Healthcare | Cooling Central | Existing | building | 10,830 | 1.4% | 0.04 | 15 | \$86 | 20% | 1.5 |
| PECO | Duct Insulation, Add R8 | No Insulation | Healthcare | Cooling Central | New | building | 10,830 | 1.4% | 0.04 | 15 | \$86 | 10% | 1.5 |
| PECO | Facility Commissioning | No Facility Commissioning | Healthcare | Cooling Central | New | building | 10,830 | 16% | 0.2 | 10 | \$69,058 | 89% | 0.0 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Healthcare | Cooling Central | Existing | building | 10,830 | 7.0% | 0.07 | 15 | \$48,039 | 25% | 0.0 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Healthcare | Cooling Central | New | building | 10,830 | 7.0% | 0.07 | 15 | \$48,039 | 35% | 0.0 |
| PECO | Hi Eff HVAC System Design | No HVAC Design | Healthcare | Cooling Central | New | building | 10,830 | 8.6% | 0.09 | 10 | \$671,630 | 51% | 0.0 |
| PECO | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | Early | ton | 10,657 | 24% | 0.6 | 15 | \$108,550 | 88% | 0.0 |
| PECO | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | New | ton | 8,712 | 6.7% | 0.1 | 15 | \$12,927 | 88% | 0.0 |
| PECO | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | ROB | ton | 8,712 | 6.7% | 0.1 | 15 | \$12,927 | 88% | 0.0 |
| PECO | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | Early | ton | 15,925 | 23% | 0.8 | 15 | \$140,105 | 88% | 0.0 |
| PECO | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | New | ton | 12,812 | 4.9% | 0.1 | 15 | \$9,336 | 88% | 0.1 |
| PECO | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | ROB | ton | 12,812 | 4.9% | 0.1 | 15 | \$9,336 | 88% | 0.1 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | Early | ton | 130,362 | 26% | 7.6 | 15 | \$105,354 | 88% | 0.3 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | New | ton | 113,583 | 15% | 3.8 | 15 | \$30,530 | 88% | 0.4 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | ROB | ton | 113,583 | 15% | 3.8 | 15 | \$30,530 | 88% | 0.4 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | Early | ton | 195,247 | 23% | 10.0 | 15 | \$154,107 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | New | ton | 179,358 | 16% | 6.5 | 15 | \$27,646 | 88% | 0.8 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | ROB | ton | 195,247 | 23% | 10.0 | 15 | \$27,646 | 88% | 1.3 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | Early | ton | 324,268 | 23% | 16.5 | 15 | \$302,924 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | New | ton | 293,486 | 14% | 9.6 | 15 | \$115,432 | 88% | 0.3 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | ROB | ton | 324,268 | 23% | 16.5 | 15 | \$115,432 | 88% | 0.5 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | Early | ton | 389,121 | 23% | 19.8 | 15 | \$350,154 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | New | ton | 352,183 | 14% | 11.5 | 15 | \$120,406 | 88% | 0.3 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | ROB | ton | 389,121 | 23% | 19.8 | 15 | \$120,406 | 88% | 0.6 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | Early | ton | 86,252 | 29% | 5.7 | 15 | \$83,632 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | New | ton | 66,974 | 8.9% | 1.3 | 15 | \$40,211 | 88% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|--|---|------------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | ROB | ton | 86,252 | 29% | 5.7 | 15 | \$40,211 | 88% | 0.5 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | Early | ton | 148,203 | 35% | 11.6 | 15 | \$132,173 | 88% | 0.3 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | New | ton | 110,534 | 13% | 3.1 | 15 | \$39,556 | 88% | 0.3 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | ROB | ton | 110,534 | 13% | 3.1 | 15 | \$39,556 | 88% | 0.3 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | Early | ton | 247,436 | 39% | 21.8 | 15 | \$187,029 | 88% | 0.4 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | New | ton | 176,418 | 15% | 5.8 | 15 | \$33,554 | 88% | 0.6 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | ROB | ton | 247,436 | 39% | 21.8 | 15 | \$33,554 | 88% | 2.3 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | Early | ton | 43,298 | 30% | 2.9 | 15 | \$32,398 | 88% | 0.3 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | New | ton | 34,304 | 11% | 0.9 | 15 | \$7,188 | 88% | 0.4 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | ROB | ton | 43,298 | 30% | 2.9 | 15 | \$7,188 | 88% | 1.4 |
| PECO | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Healthcare | Cooling Central | Existing | building | 10,830 | 2.1% | 0.02 | 10 | \$22,450 | 81% | 0.0 |
| PECO | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Healthcare | Cooling Central | New | building | 10,830 | 2.1% | 0.02 | 10 | \$22,450 | 81% | 0.0 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Healthcare | Cooling Central | Existing | building | 10,830 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.4 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Healthcare | Cooling Central | New | building | 10,830 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.7 |
| PECO | Re-Commissioning (Existing Construction) | No Re-Commissioning | Healthcare | Cooling Central | Existing | building | 10,830 | 16% | 0.2 | 5 | \$8,847 | 86% | 0.1 |
| PECO | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Healthcare | Cooling Central | Existing | building | 10,830 | 2.6% | 0.03 | 15 | \$5,624 | 26% | 0.0 |
| PECO | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Healthcare | Cooling Central | New | building | 10,830 | 0.1% | 0.00 | 15 | \$4,314 | 94% | 0.0 |
| PECO | <65k BTU/hr 14 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Healthcare | Cooling Unitary | Early | ton | 2,322 | 16% | 0.2 | 15 | \$1,545 | 29% | 0.3 |
| PECO | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Healthcare | Cooling Unitary | New | ton | 2,103 | 7.1% | 0.08 | 15 | \$339 | 29% | 0.5 |
| PECO | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Healthcare | Cooling Unitary | ROB | ton | 2,103 | 7.1% | 0.08 | 15 | \$339 | 29% | 0.5 |
| PECO | <65k BTU/hr 15 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Healthcare | Cooling Unitary | Early | ton | 2,322 | 22% | 0.3 | 15 | \$1,821 | 30% | 0.3 |
| PECO | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Healthcare | Cooling Unitary | New | ton | 2,103 | 13% | 0.1 | 15 | \$714 | 30% | 0.4 |
| PECO | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Healthcare | Cooling Unitary | ROB | ton | 2,103 | 13% | 0.1 | 15 | \$714 | 30% | 0.4 |
| PECO | <65k BTU/hr 16 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Healthcare | Cooling Unitary | Early | ton | 2,322 | 26% | 0.3 | 15 | \$2,098 | 31% | 0.3 |
| PECO | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Healthcare | Cooling Unitary | New | ton | 2,103 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.4 |
| PECO | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Healthcare | Cooling Unitary | ROB | ton | 2,103 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.4 |
| PECO | >760k min 10.2 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Healthcare | Cooling Unitary | Early | ton | 58,754 | 3.7% | 1.1 | 15 | \$68,066 | 56% | 0.0 |
| PECO | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Healthcare | Cooling Unitary | New | ton | 59,507 | 4.9% | 1.5 | 15 | \$6,231 | 56% | 0.5 |
| PECO | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Healthcare | Cooling Unitary | ROB | ton | 59,507 | 4.9% | 1.5 | 15 | \$6,231 | 56% | 0.5 |
| PECO | 135-240k min 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Healthcare | Cooling Unitary | Early | ton | 14,457 | 18% | 1.3 | 15 | \$18,135 | 79% | 0.2 |
| PECO | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Healthcare | Cooling Unitary | New | ton | 13,151 | 10.0% | 0.7 | 15 | \$1,948 | 79% | 0.7 |
| PECO | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Healthcare | Cooling Unitary | ROB | ton | 13,151 | 10.0% | 0.7 | 15 | \$1,948 | 79% | 0.7 |
| PECO | 240k-760k min 11 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Healthcare | Cooling Unitary | Early | ton | 38,654 | 9.0% | 1.8 | 15 | \$44,809 | 66% | 0.1 |
| PECO | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Healthcare | Cooling Unitary | New | ton | 38,750 | 9.3% | 1.8 | 15 | \$4,813 | 66% | 0.8 |
| PECO | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Healthcare | Cooling Unitary | ROB | ton | 38,750 | 9.3% | 1.8 | 15 | \$4,813 | 66% | 0.8 |
| PECO | 65k-135k BTU/hr 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Healthcare | Cooling Unitary | Early | ton | 8,522 | 17% | 0.7 | 15 | \$10,946 | 86% | 0.1 |
| PECO | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Healthcare | Cooling Unitary | New | ton | 7,595 | 6.7% | 0.3 | 15 | \$1,392 | 86% | 0.4 |
| PECO | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Healthcare | Cooling Unitary | ROB | ton | 7,595 | 6.7% | 0.3 | 15 | \$1,392 | 86% | 0.4 |
| PECO | Adding reflective roof treatment | Std color roof | Healthcare | Cooling Unitary | Existing | building | 175,838 | 7.0% | 0.07 | 6 | \$15,370 | 82% | 0.2 |
| PECO | Adding reflective roof treatment | Std color roof | Healthcare | Cooling Unitary | New | building | 175,838 | 7.0% | 0.07 | 6 | \$15,370 | 82% | 0.2 |
| PECO | Adding window shade film | No shade film | Healthcare | Cooling Unitary | Existing | building | 175,838 | 1.3% | 0.4 | 10 | \$2,140 | 12% | 0.6 |
| PECO | Adding window shade film | No shade film | Healthcare | Cooling Unitary | New | building | 175,838 | 1.3% | 0.4 | 10 | \$2,140 | 13% | 0.6 |
| PECO | Adding window shade screen | No shade screen | Healthcare | Cooling Unitary | Existing | building | 175,838 | 1.1% | 0.01 | 10 | \$828 | 12% | 0.9 |
| PECO | Adding window shade screen | No shade screen | Healthcare | Cooling Unitary | New | building | 175,838 | 1.1% | 0.01 | 10 | \$828 | 13% | 1.0 |
| PECO | Automated control system | Manual Controls | Healthcare | Cooling Unitary | Existing | building | 175,838 | 17% | 0.2 | 15 | \$192,501 | 51% | 0.1 |
| PECO | Automated control system | Manual Controls | Healthcare | Cooling Unitary | New | building | 175,838 | 17% | 0.2 | 15 | \$192,501 | 94% | 0.1 |
| PECO | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Healthcare | Cooling Unitary | Existing | building | 175,838 | 1.1% | 0.01 | 15 | \$20,566 | 71% | 0.1 |
| PECO | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Healthcare | Cooling Unitary | New | building | 175,838 | 0.3% | 0.00 | 15 | \$19,549 | 94% | 0.0 |
| PECO | Duct Insulation, Add R8 | No Insulation | Healthcare | Cooling Unitary | Existing | building | 175,838 | 1.4% | 0.04 | 15 | \$1,397 | 20% | 1.0 |
| PECO | Duct Insulation, Add R8 | No Insulation | Healthcare | Cooling Unitary | New | building | 175,838 | 1.4% | 0.04 | 15 | \$1,397 | 10% | 1.0 |
| PECO | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Healthcare | Cooling Unitary | Existing | building | 96,092 | 13% | 0.1 | 1 | \$921 | 73% | 0.6 |
| PECO | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Healthcare | Cooling Unitary | New | building | 96,092 | 13% | 0.1 | 1 | \$921 | 73% | 0.6 |
| PECO | ECM Motors for split systems | Std Shaded Pole Motor | Healthcare | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 3.2 |
| PECO | ECM Motors for split systems | Std Shaded Pole Motor | Healthcare | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 3.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|--|---|------------|-----------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Facility Commissioning | No Facility Commissioning | Healthcare | Cooling Unitary | New | building | 175,838 | 16% | 0.2 | 10 | \$5,215 | 89% | 2.2 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Healthcare | Cooling Unitary | Existing | building | 175,838 | 7.1% | 0.07 | 15 | \$779,977 | 25% | 0.0 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Healthcare | Cooling Unitary | New | building | 175,838 | 7.1% | 0.07 | 15 | \$779,977 | 35% | 0.0 |
| PECO | Hi Eff HVAC System Design | No HVAC Design | Healthcare | Cooling Unitary | New | building | 175,838 | 8.6% | 0.09 | 10 | \$61,209 | 51% | 0.1 |
| PECO | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Healthcare | Cooling Unitary | Existing | building | 175,838 | 5.0% | 0.05 | 5 | \$225 | 59% | 8.6 |
| PECO | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Healthcare | Cooling Unitary | Existing | building | 175,838 | 2.1% | 0.02 | 10 | \$24,127 | 86% | 0.1 |
| PECO | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Healthcare | Cooling Unitary | New | building | 175,838 | 2.1% | 0.02 | 10 | \$24,127 | 86% | 0.1 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) | Healthcare | Cooling Unitary | Existing | building | 175,838 | 2.0% | 0.02 | 11 | \$286 | 49% | 5.6 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Healthcare | Cooling Unitary | New | building | 175,838 | 1.7% | 0.02 | 11 | \$146 | 49% | 9.3 |
| PECO | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Healthcare | Cooling Unitary | Early | unit | 1,124 | 19% | 0.05 | 15 | \$849 | 85% | 0.2 |
| PECO | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Healthcare | Cooling Unitary | New | unit | 1,136 | 20% | 0.05 | 15 | \$356 | 85% | 0.5 |
| PECO | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Healthcare | Cooling Unitary | ROB | unit | 1,136 | 20% | 0.05 | 15 | \$356 | 85% | 0.5 |
| PECO | Re-Commissioning (Existing Construction) | No Re-Commissioning | Healthcare | Cooling Unitary | Existing | building | 175,838 | 16% | 0.2 | 5 | \$8,847 | 86% | 0.7 |
| PECO | Room AC (w/ louvered sides) | Existing efficiency Room AC in Pennsylvania (2000 Federal Standards) | Healthcare | Cooling Unitary | Early | ton | 1,258 | 13% | 0.04 | 9 | \$348 | 82% | 0.3 |
| PECO | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Healthcare | Cooling Unitary | New | ton | 1,140 | 4.5% | 0.01 | 9 | \$17 | 82% | 1.6 |
| PECO | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Healthcare | Cooling Unitary | ROB | ton | 1,140 | 4.5% | 0.01 | 9 | \$17 | 82% | 1.6 |
| PECO | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Healthcare | Cooling Unitary | Existing | building | 175,838 | 2.6% | 0.03 | 15 | \$5,624 | 26% | 0.5 |
| PECO | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Healthcare | Cooling Unitary | New | building | 175,838 | 0.1% | 0.00 | 15 | \$4,314 | 94% | 0.0 |
| PECO | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Healthcare | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 1.1 |
| PECO | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Healthcare | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.4 |
| PECO | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Healthcare | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.4 |
| PECO | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Healthcare | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 0% | 0.2 |
| PECO | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Healthcare | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| PECO | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Healthcare | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| PECO | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Healthcare | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 75% | 0.3 |
| PECO | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Healthcare | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 75% | 0.2 |
| PECO | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Healthcare | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.6 |
| PECO | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Healthcare | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.0 |
| PECO | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Healthcare | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.6 |
| PECO | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Healthcare | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.0 |
| PECO | Photocell Controls (Outdoor) | Lighting w/ No Controls | Healthcare | Ext. Lighting | Existing | building | 1,355 | 28% | 0.3 | 8 | \$5,444 | 88% | 0.1 |
| PECO | Photocell Controls (Outdoor) | Lighting w/ No Controls | Healthcare | Ext. Lighting | New | building | 1,355 | 28% | 0.3 | 8 | \$5,444 | 0% | 0.1 |
| PECO | Adding reflective roof treatment | Std color roof | Healthcare | Heat Pump | Existing | building | 20,527 | 6.9% | 0.07 | 6 | \$15,370 | 82% | 0.0 |
| PECO | Adding reflective roof treatment | Std color roof | Healthcare | Heat Pump | New | building | 20,527 | 6.9% | 0.07 | 6 | \$15,370 | 82% | 0.0 |
| PECO | Adding window shade film | No shade film | Healthcare | Heat Pump | Existing | building | 20,527 | 3.9% | 0.4 | 10 | \$250 | 12% | 2.5 |
| PECO | Adding window shade film | No shade film | Healthcare | Heat Pump | New | building | 20,527 | 3.9% | 0.4 | 10 | \$250 | 12% | 2.5 |
| PECO | Adding window shade screen | No shade screen | Healthcare | Heat Pump | Existing | building | 20,527 | 0.3% | 0.01 | 10 | \$32 | 12% | 1.1 |
| PECO | Adding window shade screen | No shade screen | Healthcare | Heat Pump | New | building | 20,527 | 0.3% | 0.01 | 10 | \$32 | 12% | 1.1 |
| PECO | Automated control system | Manual Controls | Healthcare | Heat Pump | Existing | building | 20,527 | 17% | 0.2 | 15 | \$22,472 | 51% | 0.1 |
| PECO | Automated control system | Manual Controls | Healthcare | Heat Pump | New | building | 20,527 | 17% | 0.2 | 15 | \$22,472 | 94% | 0.1 |
| PECO | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Healthcare | Heat Pump | Existing | building | 20,527 | 1.0% | 0.01 | 15 | \$20,566 | 71% | 0.0 |
| PECO | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Healthcare | Heat Pump | New | building | 20,527 | 0.3% | 0.00 | 15 | \$19,549 | 94% | 0.0 |
| PECO | Duct Insulation, Add R8 | No Insulation | Healthcare | Heat Pump | Existing | building | 20,527 | 4.0% | 0.04 | 15 | \$163 | 12% | 3.1 |
| PECO | Duct Insulation, Add R8 | No Insulation | Healthcare | Heat Pump | New | building | 20,527 | 4.0% | 0.04 | 15 | \$163 | 6% | 3.1 |
| PECO | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Healthcare | Heat Pump | Early | heat pump | 1,881 | 13% | 0.06 | 15 | \$4,070 | 83% | 0.0 |
| PECO | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Healthcare | Heat Pump | New | heat pump | 1,772 | 7.7% | 0.03 | 15 | \$1,097 | 83% | 0.1 |
| PECO | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Healthcare | Heat Pump | ROB | heat pump | 1,772 | 7.7% | 0.03 | 15 | \$1,097 | 83% | 0.1 |
| PECO | Facility Commissioning | No Facility Commissioning | Healthcare | Heat Pump | New | building | 20,527 | 16% | 0.2 | 10 | \$69,058 | 89% | 0.0 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Healthcare | Heat Pump | Existing | building | 20,527 | 7.0% | 0.07 | 15 | \$91,053 | 25% | 0.0 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Healthcare | Heat Pump | New | building | 20,527 | 7.0% | 0.07 | 15 | \$91,053 | 35% | 0.0 |
| PECO | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Healthcare | Heat Pump | Early | heat pump | 19,792 | 19% | 0.8 | 15 | \$91,117 | 19% | 0.0 |
| PECO | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Healthcare | Heat Pump | New | heat pump | 18,883 | 15% | 0.6 | 15 | \$33,927 | 19% | 0.1 |
| PECO | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Healthcare | Heat Pump | ROB | heat pump | 18,883 | 15% | 0.6 | 15 | \$33,927 | 19% | 0.1 |
| PECO | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Healthcare | Heat Pump | Early | heat pump | 19,792 | 19% | 0.8 | 15 | \$58,356 | 19% | 0.1 |
| PECO | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Healthcare | Heat Pump | New | heat pump | 18,883 | 15% | 0.6 | 15 | \$1,167 | 19% | 2.0 |
| PECO | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Healthcare | Heat Pump | ROB | heat pump | 18,883 | 15% | 0.6 | 15 | \$1,167 | 19% | 2.0 |
| PECO | Hi Eff HVAC System Design | No HVAC Design | Healthcare | Heat Pump | New | building | 20,527 | 8.6% | 0.09 | 10 | \$671,630 | 51% | 0.0 |
| PECO | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Healthcare | Heat Pump | Early | heat pump | 5,016 | 18% | 0.2 | 12 | \$4,298 | 81% | 0.1 |
| PECO | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Healthcare | Heat Pump | Early | heat pump | 5,016 | 24% | 0.3 | 12 | \$5,883 | 81% | 0.1 |
| PECO | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Healthcare | Heat Pump | New | heat pump | 4,724 | 13% | 0.1 | 12 | \$852 | 81% | 0.5 |
| PECO | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Healthcare | Heat Pump | New | heat pump | 4,724 | 20% | 0.2 | 12 | \$2,437 | 81% | 0.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|--|--|------------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Healthcare | Heat Pump | ROB | heat pump | 4,724 | 13% | 0.1 | 12 | \$852 | 81% | 0.5 |
| PECO | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Healthcare | Heat Pump | ROB | heat pump | 4,724 | 20% | 0.2 | 12 | \$2,437 | 81% | 0.3 |
| PECO | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Healthcare | Heat Pump | Existing | building | 20,527 | 2.1% | 0.02 | 10 | \$21,481 | 81% | 0.0 |
| PECO | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Healthcare | Heat Pump | New | building | 20,527 | 2.1% | 0.02 | 10 | \$21,481 | 81% | 0.0 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Healthcare | Heat Pump | Existing | building | 20,527 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.8 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Healthcare | Heat Pump | New | building | 20,527 | 2.1% | 0.02 | 11 | \$146 | 49% | 1.4 |
| PECO | Re-Commissioning (Existing Construction) | No Re-Commissioning | Healthcare | Heat Pump | Existing | building | 20,527 | 16% | 0.2 | 5 | \$8,847 | 86% | 0.1 |
| PECO | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Healthcare | Heat Pump | Existing | building | 20,527 | 2.6% | 0.03 | 15 | \$5,624 | 26% | 0.1 |
| PECO | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Healthcare | Heat Pump | New | building | 20,527 | 0.1% | 0.00 | 15 | \$4,314 | 94% | 0.0 |
| PECO | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Healthcare | Heat Pump | Early | heat pump | 7,842 | 31% | 0.5 | 15 | \$35,347 | 28% | 0.1 |
| PECO | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Healthcare | Heat Pump | New | heat pump | 7,326 | 26% | 0.4 | 15 | \$15,739 | 28% | 0.1 |
| PECO | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Healthcare | Heat Pump | ROB | heat pump | 7,326 | 26% | 0.4 | 15 | \$15,739 | 28% | 0.1 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | Early | Fixture | 620 | 9.6% | 0.01 | 13 | \$850 | 39% | 0.0 |
| PECO | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Healthcare | High Bay Lighting | Early | Fixture | 619 | 9.5% | 0.01 | 13 | \$850 | 28% | 0.0 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Healthcare | High Bay Lighting | Early | Fixture | 956 | 41% | 0.08 | 13 | \$850 | 36% | 0.3 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | New | Fixture | 471 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Healthcare | High Bay Lighting | New | Fixture | 438 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Healthcare | High Bay Lighting | New | Fixture | 726 | 41% | 0.06 | 13 | \$397 | 36% | 0.5 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 620 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 577 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 956 | 41% | 0.08 | 13 | \$397 | 36% | 0.7 |
| PECO | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | Early | Fixture | 1,203 | 19% | 0.05 | 13 | \$851 | 38% | 0.2 |
| PECO | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Healthcare | High Bay Lighting | Early | Fixture | 1,218 | 20% | 0.05 | 13 | \$851 | 38% | 0.2 |
| PECO | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | Early | Fixture | 3,543 | 73% | 0.5 | 13 | \$851 | 38% | 2.1 |
| PECO | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | New | Fixture | 914 | 19% | 0.04 | 13 | \$372 | 38% | 0.3 |
| PECO | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | New | Fixture | 2,693 | 73% | 0.4 | 13 | \$383 | 38% | 3.6 |
| PECO | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 1,203 | 19% | 0.05 | 13 | \$372 | 38% | 0.4 |
| PECO | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 3,543 | 73% | 0.5 | 13 | \$383 | 38% | 4.7 |
| PECO | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | Early | Fixture | 1,203 | 25% | 0.06 | 13 | \$554 | 29% | 0.4 |
| PECO | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Healthcare | High Bay Lighting | Early | Fixture | 1,181 | 23% | 0.06 | 13 | \$554 | 28% | 0.3 |
| PECO | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | Early | Fixture | 3,543 | 74% | 0.6 | 13 | \$554 | 36% | 3.3 |
| PECO | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | New | Fixture | 914 | 25% | 0.05 | 13 | \$75 | 29% | 2.1 |
| PECO | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | New | Fixture | 2,693 | 74% | 0.4 | 13 | \$86 | 36% | 16.4 |
| PECO | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 1,203 | 25% | 0.06 | 13 | \$75 | 29% | 2.8 |
| PECO | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 3,543 | 74% | 0.6 | 13 | \$86 | 36% | 21.6 |
| PECO | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Healthcare | High Bay Lighting | Early | Fixture | 314 | 0.2% | 0.00 | 13 | \$835 | 38% | 0.0 |
| PECO | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Healthcare | High Bay Lighting | Early | Fixture | 676 | 54% | 0.08 | 13 | \$835 | 38% | 0.3 |
| PECO | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Healthcare | High Bay Lighting | New | Fixture | 514 | 54% | 0.06 | 13 | \$382 | 38% | 0.5 |
| PECO | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 676 | 54% | 0.08 | 13 | \$382 | 38% | 0.7 |
| PECO | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | Early | Fixture | 1,533 | 18% | 0.06 | 13 | \$487 | 25% | 0.4 |
| PECO | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Healthcare | High Bay Lighting | Early | Fixture | 1,603 | 22% | 0.07 | 13 | \$487 | 28% | 0.5 |
| PECO | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | Early | Fixture | 3,543 | 65% | 0.5 | 13 | \$487 | 36% | 3.3 |
| PECO | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | New | Fixture | 1,165 | 18% | 0.05 | 13 | \$16 | 25% | 9.2 |
| PECO | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | New | Fixture | 2,693 | 65% | 0.4 | 13 | \$18 | 36% | 66.6 |
| PECO | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 1,533 | 18% | 0.06 | 13 | \$16 | 25% | 12.1 |
| PECO | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 3,543 | 65% | 0.5 | 13 | \$18 | 36% | 87.6 |
| PECO | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | Early | Fixture | 1,533 | 1.5% | 0.00 | 13 | \$557 | 19% | 0.0 |
| PECO | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Healthcare | High Bay Lighting | Early | Fixture | 1,578 | 4.3% | 0.01 | 13 | \$557 | 19% | 0.1 |
| PECO | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | Early | Fixture | 3,543 | 57% | 0.4 | 13 | \$557 | 19% | 2.6 |
| PECO | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | New | Fixture | 1,165 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| PECO | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | New | Fixture | 2,693 | 57% | 0.3 | 13 | \$88 | 19% | 12.3 |
| PECO | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 1,533 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.2 |
| PECO | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 3,543 | 57% | 0.4 | 13 | \$88 | 19% | 16.2 |
| PECO | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Healthcare | High Bay Lighting | Early | Fixture | 651 | 29% | 0.03 | 13 | \$492 | 71% | 0.2 |
| PECO | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | Early | Fixture | 544 | 15% | 0.01 | 13 | \$492 | 95% | 0.1 |
| PECO | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Healthcare | High Bay Lighting | Early | Fixture | 808 | 43% | 0.05 | 13 | \$492 | 95% | 0.5 |
| PECO | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Healthcare | High Bay Lighting | Early | Fixture | 749 | 38% | 0.04 | 13 | \$492 | 95% | 0.4 |
| PECO | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | New | Fixture | 414 | 15% | 0.01 | 13 | \$25 | 95% | 1.6 |
| PECO | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Healthcare | High Bay Lighting | New | Fixture | 614 | 43% | 0.04 | 13 | \$51 | 95% | 3.3 |
| PECO | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 544 | 15% | 0.01 | 13 | \$25 | 95% | 2.1 |
| PECO | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 808 | 43% | 0.05 | 13 | \$51 | 95% | 4.3 |
| PECO | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Healthcare | High Bay Lighting | Early | lamp | 107 | 16% | 0.00 | 10 | \$7.7 | 99% | 1.3 |
| PECO | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Healthcare | High Bay Lighting | New | lamp | 64 | 13% | 0.00 | 10 | \$1.6 | 91% | 2.9 |
| PECO | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Healthcare | High Bay Lighting | ROB | lamp | 103 | 13% | 0.00 | 10 | \$1.6 | 91% | 4.7 |
| PECO | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | Early | Fixture | 3,626 | 23% | 0.2 | 13 | \$613 | 5% | 0.9 |
| PECO | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Healthcare | High Bay Lighting | Early | Fixture | 2,849 | 1.6% | 0.01 | 13 | \$613 | 28% | 0.1 |
| PECO | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | Early | Fixture | 7,087 | 60% | 0.9 | 13 | \$613 | 18% | 4.9 |
| PECO | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | New | Fixture | 2,756 | 23% | 0.1 | 13 | \$96 | 5% | 4.6 |
| PECO | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 3,626 | 23% | 0.2 | 13 | \$96 | 5% | 6.0 |
| PECO | Auto Off Time Switch | Lighting w/ No Controls | Healthcare | High Bay Lighting | Existing | building | 4,134 | 24% | 0.2 | 8 | \$1,106 | 13% | 0.4 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---|--|------------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Auto Off Time Switch | Lighting w/ No Controls | Healthcare | High Bay Lighting | New | building | 4,134 | 6.9% | 0.07 | 8 | \$1,106 | 0% | 0.1 |
| PECO | Central Lighting Control System | Lighting w/ No Controls | Healthcare | High Bay Lighting | Existing | building | 4,134 | 38% | 0.4 | 8 | \$1,106 | 13% | 0.7 |
| PECO | Central Lighting Control System | Lighting w/ No Controls | Healthcare | High Bay Lighting | New | building | 4,134 | 14% | 0.1 | 8 | \$1,106 | 13% | 0.3 |
| PECO | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Healthcare | High Bay Lighting | New | building | 4,134 | 10% | 0.1 | 15 | \$32,147 | 32% | 0.0 |
| PECO | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Healthcare | High Bay Lighting | New | building | 4,134 | 15% | 0.2 | 15 | \$80,367 | 32% | 0.0 |
| PECO | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Healthcare | High Bay Lighting | New | building | 4,134 | 30% | 0.3 | 15 | \$115,193 | 32% | 0.0 |
| PECO | Indoor Daylight Sensors | Lighting w/ No Controls | Healthcare | High Bay Lighting | Existing | building | 4,134 | 28% | 0.3 | 8 | \$5,444 | 13% | 0.1 |
| PECO | Indoor Daylight Sensors | Lighting w/ No Controls | Healthcare | High Bay Lighting | New | building | 4,134 | 4.0% | 0.04 | 8 | \$5,444 | 0% | 0.0 |
| PECO | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | Early | Fixture | 3,626 | 92% | 0.7 | 13 | \$1,916 | 95% | 1.2 |
| PECO | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | Early | Fixture | 7,087 | 96% | 1.4 | 13 | \$1,916 | 95% | 2.5 |
| PECO | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | New | Fixture | 2,756 | 92% | 0.5 | 13 | \$1,468 | 95% | 1.2 |
| PECO | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | New | Fixture | 5,386 | 96% | 1.1 | 13 | \$1,149 | 95% | 3.2 |
| PECO | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 3,626 | 92% | 0.7 | 13 | \$1,468 | 95% | 1.6 |
| PECO | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 7,087 | 96% | 1.4 | 13 | \$1,149 | 95% | 4.2 |
| PECO | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | Early | Fixture | 1,203 | 67% | 0.2 | 13 | \$960 | 95% | 0.6 |
| PECO | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Healthcare | High Bay Lighting | Early | Fixture | 3,543 | 89% | 0.7 | 13 | \$960 | 95% | 2.3 |
| PECO | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Healthcare | High Bay Lighting | Early | Fixture | 972 | 59% | 0.1 | 13 | \$960 | 95% | 0.4 |
| PECO | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | New | Fixture | 914 | 67% | 0.1 | 13 | \$480 | 95% | 0.9 |
| PECO | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Healthcare | High Bay Lighting | New | Fixture | 2,693 | 89% | 0.5 | 13 | \$491 | 95% | 3.4 |
| PECO | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Healthcare | High Bay Lighting | New | Fixture | 739 | 59% | 0.09 | 13 | \$406 | 95% | 0.8 |
| PECO | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 1,203 | 67% | 0.2 | 13 | \$480 | 95% | 1.2 |
| PECO | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 3,543 | 89% | 0.7 | 13 | \$491 | 95% | 4.5 |
| PECO | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 972 | 59% | 0.1 | 13 | \$406 | 95% | 1.0 |
| PECO | Occupancy Sensor | Lighting w/ No Controls | Healthcare | High Bay Lighting | Existing | building | 4,134 | 24% | 0.2 | 8 | \$1,666 | 11% | 0.3 |
| PECO | Occupancy Sensor | Lighting w/ No Controls | Healthcare | High Bay Lighting | New | building | 4,134 | 6.9% | 0.07 | 8 | \$1,666 | 0% | 0.1 |
| PECO | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Healthcare | High Bay Lighting | Existing | building | 4,134 | 28% | 0.3 | 8 | \$5,444 | 11% | 0.1 |
| PECO | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Healthcare | High Bay Lighting | New | building | 4,134 | 4.0% | 0.04 | 8 | \$5,444 | 0% | 0.0 |
| PECO | Time Clock Control | Lighting w/ No Controls | Healthcare | High Bay Lighting | Existing | building | 4,134 | 28% | 0.3 | 8 | \$1,106 | 13% | 0.5 |
| PECO | Time Clock Control | Lighting w/ No Controls | Healthcare | High Bay Lighting | New | building | 4,134 | 4.0% | 0.04 | 8 | \$1,106 | 0% | 0.1 |
| PECO | Auto Off Time Switch | Lighting w/ No Controls | Healthcare | Lin. Fluor. Lighting | Existing | building | 275,136 | 24% | 0.2 | 8 | \$1,106 | 13% | 20.1 |
| PECO | Auto Off Time Switch | Lighting w/ No Controls | Healthcare | Lin. Fluor. Lighting | New | building | 275,136 | 7.0% | 0.07 | 8 | \$1,106 | 0% | 5.8 |
| PECO | Central Lighting Control System | Lighting w/ No Controls | Healthcare | Lin. Fluor. Lighting | Existing | building | 275,136 | 38% | 0.4 | 8 | \$1,106 | 12% | 31.8 |
| PECO | Central Lighting Control System | Lighting w/ No Controls | Healthcare | Lin. Fluor. Lighting | New | building | 275,136 | 14% | 0.1 | 8 | \$1,106 | 12% | 11.7 |
| PECO | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Healthcare | Lin. Fluor. Lighting | New | building | 275,136 | 10% | 0.1 | 15 | \$32,147 | 32% | 0.5 |
| PECO | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Healthcare | Lin. Fluor. Lighting | New | building | 275,136 | 15% | 0.2 | 15 | \$80,367 | 32% | 0.3 |
| PECO | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Healthcare | Lin. Fluor. Lighting | New | building | 275,136 | 30% | 0.3 | 15 | \$115,193 | 32% | 0.4 |
| PECO | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Healthcare | Lin. Fluor. Lighting | Early | Lamp | 215 | 38% | 0.02 | 10 | \$7.3 | 94% | 6.3 |
| PECO | Indoor Daylight Sensors | Lighting w/ No Controls | Healthcare | Lin. Fluor. Lighting | Existing | building | 275,136 | 28% | 0.3 | 8 | \$5,444 | 13% | 4.8 |
| PECO | Indoor Daylight Sensors | Lighting w/ No Controls | Healthcare | Lin. Fluor. Lighting | New | building | 275,136 | 4.1% | 0.04 | 8 | \$5,444 | 0% | 0.7 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | Early | Lamp | 77 | 19% | 0.00 | 15 | \$35 | 94% | 0.3 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 40W T12 Lamp, Magnetic Ballast | Healthcare | Lin. Fluor. Lighting | Early | Lamp | 169 | 63% | 0.02 | 15 | \$35 | 94% | 2.4 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | Early | Lamp | 95 | 34% | 0.01 | 15 | \$35 | 94% | 0.7 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | Early | Lamp | 92 | 32% | 0.01 | 15 | \$35 | 94% | 0.7 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | New | Lamp | 59 | 19% | 0.00 | 15 | \$28 | 94% | 0.3 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | New | Lamp | 70 | 32% | 0.00 | 15 | \$29 | 94% | 0.6 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | New | Lamp | 72 | 34% | 0.01 | 15 | \$22 | 94% | 0.9 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | New | Lamp | 70 | 32% | 0.00 | 15 | \$29 | 94% | 0.6 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | ROB | Lamp | 77 | 19% | 0.00 | 15 | \$28 | 94% | 0.4 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | ROB | Lamp | 92 | 32% | 0.01 | 15 | \$29 | 94% | 0.8 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | ROB | Lamp | 95 | 34% | 0.01 | 15 | \$22 | 94% | 1.2 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | ROB | Lamp | 92 | 32% | 0.01 | 15 | \$29 | 94% | 0.8 |
| PECO | Occupancy Sensor | Lighting w/ No Controls | Healthcare | Lin. Fluor. Lighting | Existing | building | 275,136 | 24% | 0.2 | 8 | \$1,666 | 12% | 13.4 |
| PECO | Occupancy Sensor | Lighting w/ No Controls | Healthcare | Lin. Fluor. Lighting | New | building | 275,136 | 7.0% | 0.07 | 8 | \$1,666 | 0% | 3.9 |
| PECO | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Healthcare | Lin. Fluor. Lighting | Existing | building | 275,136 | 28% | 0.3 | 8 | \$5,444 | 11% | 4.8 |
| PECO | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Healthcare | Lin. Fluor. Lighting | New | building | 275,136 | 4.1% | 0.04 | 8 | \$5,444 | 0% | 0.7 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 40W T12 w/ Magnetic Ballast | Healthcare | Lin. Fluor. Lighting | Early | Lamp | 215 | 54% | 0.02 | 10 | \$9.1 | 94% | 7.2 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | Early | Lamp | 138 | 28% | 0.01 | 10 | \$9.1 | 24% | 2.4 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | Early | Lamp | 133 | 26% | 0.01 | 10 | \$9.1 | 94% | 2.1 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | New | Lamp | 101 | 26% | 0.01 | 10 | \$2.5 | 94% | 5.9 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | New | Lamp | 101 | 26% | 0.01 | 10 | \$2.5 | 94% | 5.9 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | New | Lamp | 105 | 28% | 0.01 | 10 | \$2.5 | 24% | 6.6 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | New | Lamp | 101 | 26% | 0.01 | 10 | \$2.5 | 94% | 5.9 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | ROB | Lamp | 133 | 26% | 0.01 | 10 | \$2.5 | 94% | 7.7 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---|--|------------|---------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Downsizing motor during retrofit | Larger hp standard motor | Healthcare | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 24.2 |
| PECO | Downsizing motor during retrofit | Larger hp standard motor | Healthcare | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 25.5 |
| PECO | Downsizing motor during retrofit | Larger hp standard motor | Healthcare | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 25.0 |
| PECO | Escalator Motor Controller | Constant power control | Healthcare | Motors | New | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 67% | 6.3 |
| PECO | Escalator Motor Controller | Constant power control | Healthcare | Motors | ROB | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 67% | 6.3 |
| PECO | Fan Motor - correct sizing | Incorrect Fan Motor Sizing | Healthcare | Motors | ROB | measure | 106,370 | 2.9% | 0.4 | 15 | \$50 | 92% | 41.1 |
| PECO | Variable Speed Drive Control, 15HP | Existing Motors w/out VSD Drive | Healthcare | Motors | Early | motor | 56,692 | 70% | 4.4 | 15 | \$731 | 86% | 36.2 |
| PECO | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Healthcare | Motors | New | motor | 55,473 | 72% | 4.4 | 15 | \$731 | 86% | 36.2 |
| PECO | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Healthcare | Motors | ROB | motor | 55,473 | 72% | 4.4 | 15 | \$731 | 86% | 36.2 |
| PECO | Variable Speed Drive Control, 40HP | Existing Motors w/out VSD Drive | Healthcare | Motors | Early | motor | 147,927 | 71% | 11.6 | 15 | \$4,666 | 86% | 14.9 |
| PECO | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Healthcare | Motors | New | motor | 146,198 | 72% | 11.6 | 15 | \$4,666 | 86% | 15.0 |
| PECO | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Healthcare | Motors | ROB | motor | 146,198 | 72% | 11.6 | 15 | \$4,666 | 86% | 15.0 |
| PECO | Variable Speed Drive Control, 5HP | Existing Motors w/out VFD Drive | Healthcare | Motors | Early | motor | 19,653 | 70% | 1.5 | 15 | \$2,243 | 86% | 4.1 |
| PECO | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Healthcare | Motors | New | motor | 19,214 | 72% | 1.5 | 15 | \$2,243 | 86% | 4.1 |
| PECO | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Healthcare | Motors | ROB | motor | 19,214 | 72% | 1.5 | 15 | \$2,243 | 86% | 4.1 |
| PECO | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Healthcare | Motors | Early | motor | 141,406 | 0.8% | 0.1 | 15 | \$268 | 40% | 2.8 |
| PECO | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Healthcare | Motors | New | motor | 141,406 | 0.8% | 0.1 | 15 | \$268 | 40% | 2.8 |
| PECO | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Healthcare | Motors | ROB | motor | 141,406 | 0.8% | 0.1 | 15 | \$268 | 40% | 2.8 |
| PECO | VFD on Chilled Water Pump | Motor w/out VFD Drive | Healthcare | Motors | Early | motor | 48,837 | 54% | 2.7 | 15 | \$2,903 | 86% | 5.8 |
| PECO | VFD on Chilled Water Pump | Motor w/out VFD Drive | Healthcare | Motors | New | motor | 47,923 | 55% | 2.7 | 15 | \$2,843 | 86% | 5.9 |
| PECO | VFD on Chilled Water Pump | Motor w/out VFD Drive | Healthcare | Motors | ROB | motor | 47,923 | 55% | 2.7 | 15 | \$2,843 | 86% | 5.9 |
| PECO | VFD on Condenser Water Pump | Motor w/out VFD Drive | Healthcare | Motors | Early | motor | 38,955 | 32% | 3.2 | 15 | \$2,903 | 86% | 3.5 |
| PECO | VFD on Condenser Water Pump | Motor w/out VFD Drive | Healthcare | Motors | New | motor | 38,226 | 33% | 3.1 | 15 | \$2,843 | 86% | 3.5 |
| PECO | VFD on Condenser Water Pump | Motor w/out VFD Drive | Healthcare | Motors | ROB | motor | 38,226 | 33% | 3.1 | 15 | \$2,843 | 86% | 3.5 |
| PECO | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Healthcare | Motors | Early | motor | 65,464 | 56% | 0.00 | 15 | \$2,903 | 86% | 6.7 |
| PECO | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Healthcare | Motors | New | motor | 64,239 | 57% | 0.00 | 15 | \$2,843 | 86% | 6.8 |
| PECO | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Healthcare | Motors | ROB | motor | 64,239 | 57% | 0.00 | 15 | \$2,843 | 86% | 6.8 |
| PECO | VFD on HVAC Fan | Motor w/out VFD | Healthcare | Motors | Early | motor | 48,837 | 70% | 3.4 | 15 | \$2,903 | 86% | 7.7 |
| PECO | VFD on HVAC Fan | Motor w/out VFD | Healthcare | Motors | New | motor | 47,923 | 72% | 3.3 | 15 | \$2,843 | 86% | 7.9 |
| PECO | VFD on HVAC Fan | Motor w/out VFD | Healthcare | Motors | ROB | motor | 47,923 | 72% | 3.3 | 15 | \$2,843 | 86% | 7.9 |
| PECO | Elevators | Std. Eff Elevator | Healthcare | Other | ROB | measure | 89,016 | 2.0% | 0.7 | 15 | \$2,110 | 81% | 0.8 |
| PECO | Variable Speed Drives on Process Equipment | Constant speed control | Healthcare | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 11.6 |
| PECO | Variable Speed Drives on Process Equipment | Constant speed control | Healthcare | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 11.6 |
| PECO | Auto Off Time Switch | Lighting w/ No Controls | Healthcare | Other Int. Lighting | Existing | building | 110,571 | 24% | 0.2 | 8 | \$1,106 | 13% | 8.2 |
| PECO | Auto Off Time Switch | Lighting w/ No Controls | Healthcare | Other Int. Lighting | New | building | 110,571 | 7.0% | 0.07 | 8 | \$1,106 | 0% | 2.4 |
| PECO | Central Lighting Control System | Lighting w/ No Controls | Healthcare | Other Int. Lighting | Existing | building | 110,571 | 38% | 0.4 | 8 | \$1,106 | 13% | 12.9 |
| PECO | Central Lighting Control System | Lighting w/ No Controls | Healthcare | Other Int. Lighting | New | building | 110,571 | 14% | 0.1 | 8 | \$1,106 | 13% | 4.8 |
| PECO | Cold Cathode Screw-In Bulb | 40W Incandescent Bulb | Healthcare | Other Int. Lighting | Early | lamp | 178 | 87% | 0.03 | 8 | \$30 | 14% | 2.4 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Healthcare | Other Int. Lighting | Early | lamp | 128 | 81% | 0.02 | 8 | \$30 | 11% | 1.6 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Healthcare | Other Int. Lighting | New | lamp | 97 | 81% | 0.02 | 8 | \$21 | 14% | 1.8 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Healthcare | Other Int. Lighting | New | lamp | 97 | 81% | 0.02 | 8 | \$23 | 14% | 1.6 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Healthcare | Other Int. Lighting | New | lamp | 97 | 81% | 0.02 | 8 | \$22 | 11% | 1.7 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Healthcare | Other Int. Lighting | ROB | lamp | 128 | 81% | 0.02 | 8 | \$21 | 14% | 2.3 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Healthcare | Other Int. Lighting | ROB | lamp | 128 | 81% | 0.02 | 8 | \$23 | 14% | 2.2 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Healthcare | Other Int. Lighting | ROB | lamp | 128 | 81% | 0.02 | 8 | \$22 | 11% | 2.2 |
| PECO | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Healthcare | Other Int. Lighting | Early | lamp | 178 | 75% | 0.03 | 3 | \$73 | 18% | 0.3 |
| PECO | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Healthcare | Other Int. Lighting | New | fixture | 194 | 65% | 0.03 | 13 | \$29 | 21% | 3.1 |
| PECO | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Healthcare | Other Int. Lighting | New | lamp | 97 | 65% | 0.01 | 3 | \$29 | 21% | 0.4 |
| PECO | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Healthcare | Other Int. Lighting | ROB | fixture | 255 | 65% | 0.03 | 13 | \$29 | 18% | 4.1 |
| PECO | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Healthcare | Other Int. Lighting | ROB | lamp | 128 | 65% | 0.02 | 3 | \$29 | 18% | 0.6 |
| PECO | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Healthcare | Other Int. Lighting | Early | lamp | 178 | 75% | 0.03 | 3 | \$3.2 | 20% | 7.9 |
| PECO | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Healthcare | Other Int. Lighting | New | lamp | 97 | 65% | 0.01 | 3 | \$1.8 | 20% | 6.7 |
| PECO | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Healthcare | Other Int. Lighting | ROB | lamp | 128 | 65% | 0.02 | 3 | \$1.8 | 20% | 8.9 |
| PECO | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Healthcare | Other Int. Lighting | ROB | lamp | 128 | 65% | 0.02 | 3 | \$1.8 | 20% | 8.9 |
| PECO | Exit Sign Retrofit: CFL replacing Incandescent | One 23W Single Sided Incandescent Exit Sign | Healthcare | Other Int. Lighting | Early | exit sign | 138 | 42% | 0.01 | 15 | \$48 | 22% | 0.8 |
| PECO | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Healthcare | Other Int. Lighting | New | building | 110,571 | 10% | 0.1 | 15 | \$32,147 | 32% | 0.2 |
| PECO | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Healthcare | Other Int. Lighting | New | building | 110,571 | 15% | 0.2 | 15 | \$80,367 | 32% | 0.1 |
| PECO | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Healthcare | Other Int. Lighting | New | building | 110,571 | 30% | 0.3 | 15 | \$115,193 | 32% | 0.2 |
| PECO | Indoor Daylight Sensors | Lighting w/ No Controls | Healthcare | Other Int. Lighting | Existing | building | 110,571 | 28% | 0.3 | 8 | \$5,444 | 13% | 1.9 |
| PECO | Indoor Daylight Sensors | Lighting w/ No Controls | Healthcare | Other Int. Lighting | New | building | 110,571 | 4.1% | 0.04 | 8 | \$5,444 | 0% | 0.3 |
| PECO | LED Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Healthcare | Other Int. Lighting | Early | sign | 153 | 87% | 0.02 | 15 | \$48 | 16% | 1.9 |
| PECO | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Healthcare | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 2.1 |
| PECO | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Healthcare | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 2.1 |
| PECO | LED Task Lighting/Screw-In | 1 15W CFL bulb | Healthcare | Other Int. Lighting | Early | lamp | 37 | 33% | 0.00 | 10 | \$9.6 | 20% | 0.8 |
| PECO | LED Task Lighting/Screw-In | 1 60W Incandescent Bulb | Healthcare | Other Int. Lighting | Early | lamp | 150 | 83% | 0.03 | 10 | \$9.6 | 20% | 7.6 |
| PECO | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Healthcare | Other Int. Lighting | New | lamp | 82 | 77% | 0.01 | 10 | \$7.9 | 20% | 4.6 |
| PECO | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Healthcare | Other Int. Lighting | New | lamp | 82 | 77% | 0.01 | 10 | \$7.9 | 20% | 4.6 |
| PECO | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Healthcare | Other Int. Lighting | ROB | lamp | 107 | 77% | 0.02 | 10 | \$7.9 | 20% | 6.0 |
| PECO | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Healthcare | Other Int. Lighting | ROB | lamp | 107 | 77% | 0.02 | 10 | \$7.9 | 20% | 6.1 |
| PECO | Occupancy Sensor | Lighting w/ No Controls | Healthcare | Other Int. Lighting | Existing | building | 110,571 | 24% | 0.2 | 8 | \$1,666 | 11% | 5.4 |
| PECO | Occupancy Sensor | Lighting w/ No Controls | Healthcare | Other Int. Lighting | New | building | 110,571 | 7.0% | 0.07 | 8 | \$1,666 | 0% | 1.6 |
| PECO | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Healthcare | Other Int. Lighting | Existing | building | 110,571 | 28% | 0.3 | 8 | \$5,444 | 11% | 1.9 |
| PECO | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Healthcare | Other Int. Lighting | New | building | 110,571 | 4.1% | 0.04 | 8 | \$5,444 | 0% | 0.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---|---|------------|---------------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Healthcare | Other Int. Lighting | Early | exit sign | 138 | 100% | 0.02 | 15 | \$173 | 26% | 0.6 |
| PECO | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Healthcare | Other Int. Lighting | New | exit sign | 80 | 100% | 0.01 | 15 | \$148 | 31% | 0.4 |
| PECO | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Healthcare | Other Int. Lighting | ROB | exit sign | 80 | 100% | 0.01 | 15 | \$148 | 26% | 0.4 |
| PECO | Time Clock Control | Lighting w/ No Controls | Healthcare | Other Int. Lighting | Existing | building | 110,571 | 28% | 0.3 | 8 | \$1,106 | 13% | 9.6 |
| PECO | Time Clock Control | Lighting w/ No Controls | Healthcare | Other Int. Lighting | New | building | 110,571 | 4.1% | 0.04 | 8 | \$1,106 | 0% | 1.4 |
| PECO | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Healthcare | Plug Load | Existing | building | 2,913 | 46% | 0.5 | 5 | \$189 | 4% | 2.6 |
| PECO | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Healthcare | Plug Load | New | building | 1,422 | 46% | 0.5 | 5 | \$189 | 4% | 1.8 |
| PECO | Data Center - Server/Storage Consolidation | No Consolidation | Healthcare | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PECO | Data Center - Server/Storage Consolidation | No Consolidation | Healthcare | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PECO | Data Center - Server/Storage Virtualization | No Virtualization | Healthcare | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PECO | Data Center - Server/Storage Virtualization | No Virtualization | Healthcare | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PECO | Energy Star - Scanners | Std Scanner | Healthcare | Plug Load | New | measure | 68 | 3.9% | 0.04 | 4 | \$777 | 7% | 0.0 |
| PECO | Energy Star - Scanners | Std Scanner | Healthcare | Plug Load | ROB | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| PECO | Energy Star Battery Charging System (for small cordless products) | Std. Battery Charging System | Healthcare | Plug Load | ROB | measure | 593 | 2.3% | 4.8 | 5 | \$65 | 4% | 33.1 |
| PECO | Energy Star Dishwasher | Existing Dishwasher units | Healthcare | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,580 | 6% | 1.1 |
| PECO | Energy Star Dishwasher | Standard Dishwasher unit | Healthcare | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 6% | 3.6 |
| PECO | Energy Star Dishwasher | Standard Dishwasher unit | Healthcare | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 6% | 3.6 |
| PECO | Energy Star External Power Adapter | Std. Power Adapter | Healthcare | Plug Load | New | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| PECO | Energy Star External Power Adapter | Std. Power Adapter | Healthcare | Plug Load | ROB | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| PECO | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Healthcare | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 17% | 0.2 |
| PECO | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Healthcare | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.3 |
| PECO | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Healthcare | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.3 |
| PECO | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Healthcare | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 9% | 0.8 |
| PECO | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Healthcare | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.8 |
| PECO | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Healthcare | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.8 |
| PECO | ENERGY STAR® Copiers | 10% Less Efficient Copier | Healthcare | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 80% | 0.0 |
| PECO | ENERGY STAR® Copiers | One Conventional Copier | Healthcare | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 80% | 0.0 |
| PECO | ENERGY STAR® Copiers | One Conventional Copier | Healthcare | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 80% | 0.0 |
| PECO | ENERGY STAR® desktop | Standard computer | Healthcare | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 69% | 0.1 |
| PECO | ENERGY STAR® desktop | Standard computer | Healthcare | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.4 |
| PECO | ENERGY STAR® desktop | Standard computer | Healthcare | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.4 |
| PECO | ENERGY STAR® Fax | 10% Less Efficient Fax | Healthcare | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 15% | 0.0 |
| PECO | ENERGY STAR® Fax | One Conventional Fax | Healthcare | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| PECO | ENERGY STAR® Fax | One Conventional Fax | Healthcare | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| PECO | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Healthcare | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 70% | 0.0 |
| PECO | ENERGY STAR® Monitors | One Conventional Monitor | Healthcare | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| PECO | ENERGY STAR® Monitors | One Conventional Monitor | Healthcare | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| PECO | ENERGY STAR® Printers | 10% Less Efficient Printer | Healthcare | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 44% | 0.0 |
| PECO | ENERGY STAR® Printers | One Conventional Printer | Healthcare | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.4 |
| PECO | ENERGY STAR® Printers | One Conventional Printer | Healthcare | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.4 |
| PECO | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Healthcare | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 43% | 0.1 |
| PECO | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Healthcare | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.8 |
| PECO | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Healthcare | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.8 |
| PECO | ENERGY STAR® Televisions | 10% Less Efficient Television | Healthcare | Plug Load | Early | Unit | 230 | 38% | 0.02 | 6 | \$672 | 40% | 0.0 |
| PECO | ENERGY STAR® Televisions | One Conventional Television | Healthcare | Plug Load | New | Unit | 209 | 32% | 0.01 | 6 | \$206 | 40% | 0.1 |
| PECO | ENERGY STAR® Televisions | One Conventional Television | Healthcare | Plug Load | ROB | Unit | 209 | 32% | 0.01 | 6 | \$206 | 40% | 0.1 |
| PECO | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Healthcare | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 24% | 0.3 |
| PECO | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Healthcare | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.7 |
| PECO | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Healthcare | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.7 |
| PECO | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Healthcare | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 73% | 0.3 |
| PECO | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Healthcare | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 73% | 0.3 |
| PECO | Network PC Power Management | No PC Power Management | Healthcare | Plug Load | Existing | building | 425 | 33% | 0.3 | 5 | \$12 | 38% | 148.8 |
| PECO | Network PC Power Management | No PC Power Management | Healthcare | Plug Load | New | building | 425 | 33% | 0.3 | 5 | \$12 | 38% | 148.9 |
| PECO | Smart Strip Plug Outlets | Standard plug strip/outlet | Healthcare | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.4 |
| PECO | Smart Strip Plug Outlets | Standard plug strip/outlet | Healthcare | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.4 |
| PECO | Smart Strip Plug Outlets | Standard plug strip/outlet | Healthcare | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PECO | Smart Strip Plug Outlets | Standard plug strip/outlet | Healthcare | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PECO | Smart Strip Plug Outlets | Standard plug strip/outlet | Healthcare | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PECO | Smart Strip Plug Outlets | Standard plug strip/outlet | Healthcare | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PECO | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Healthcare | Plug Load | Existing | building | 2,913 | 46% | 0.5 | 5 | \$180 | 3% | 2.7 |
| PECO | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Healthcare | Plug Load | New | building | 1,422 | 46% | 0.5 | 5 | \$180 | 3% | 1.9 |
| PECO | Air curtain technology | Strip plastic curtain | Healthcare | Refrigeration | New | building | 1,933 | 6.8% | 0.07 | 8 | \$1,653 | 35% | 0.1 |
| PECO | Air curtain technology | Strip plastic curtain | Healthcare | Refrigeration | New | building | 22,315 | 6.8% | 0.07 | 8 | \$1,653 | 35% | 0.3 |
| PECO | Auto Closer on Refrigerator Door | Door w/out Autocloser | Healthcare | Refrigeration | Existing | building | 1,933 | 11% | 0.1 | 8 | \$749 | 40% | 0.2 |
| PECO | Auto Closer on Refrigerator Door | Door w/out Autocloser | Healthcare | Refrigeration | Existing | building | 22,315 | 6.7% | 0.07 | 8 | \$833 | 40% | 0.6 |
| PECO | Auto Closer on Refrigerator Door | Door w/out Autocloser | Healthcare | Refrigeration | New | building | 1,933 | 11% | 0.1 | 8 | \$749 | 40% | 0.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---|---|------------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Auto Closer on Refrigerator Door | Door w/out Autocloser | Healthcare | Refrigeration | New | building | 22,315 | 6.7% | 0.07 | 8 | \$833 | 40% | 0.6 |
| PECO | Door Gasket- Freezer | Door w/out Gasket | Healthcare | Refrigeration | Existing | building | 1,933 | 5.8% | 0.06 | 4 | \$77 | 29% | 0.5 |
| PECO | Door Gasket- Freezer | Door w/out Gasket | Healthcare | Refrigeration | New | building | 1,933 | 5.8% | 0.06 | 4 | \$77 | 29% | 0.5 |
| PECO | Door Gasket- Refrigerator | Door w/out Gasket | Healthcare | Refrigeration | Existing | building | 22,315 | 2.1% | 0.02 | 4 | \$115 | 45% | 0.7 |
| PECO | Door Gasket- Refrigerator | Door w/out Gasket | Healthcare | Refrigeration | New | building | 22,315 | 2.1% | 0.02 | 4 | \$115 | 45% | 0.7 |
| PECO | Economizer for Walk-in Coolers | No Economizer | Healthcare | Refrigeration | Early | measure | 25,239 | 6.6% | 0.2 | 10 | \$293 | 72% | 2.8 |
| PECO | Economizer for Walk-in Coolers | No Economizer | Healthcare | Refrigeration | Early | measure | 25,239 | 6.6% | 0.2 | 10 | \$293 | 72% | 2.8 |
| PECO | Economizer for Walk-in Coolers | No Economizer | Healthcare | Refrigeration | Early | measure | 25,239 | 6.6% | 0.2 | 10 | \$293 | 72% | 2.8 |
| PECO | Economizer for Walk-in Coolers | No Economizer | Healthcare | Refrigeration | New | measure | 25,239 | 6.6% | 0.2 | 10 | \$35 | 72% | 23.9 |
| PECO | Economizer for Walk-in Coolers | No Economizer | Healthcare | Refrigeration | New | measure | 25,239 | 6.6% | 0.2 | 10 | \$35 | 72% | 23.9 |
| PECO | Economizer for Walk-in Coolers | No Economizer | Healthcare | Refrigeration | ROB | measure | 25,239 | 6.6% | 0.2 | 10 | \$35 | 72% | 23.9 |
| PECO | Economizer for Walk-in Coolers | No Economizer | Healthcare | Refrigeration | ROB | measure | 25,239 | 6.6% | 0.2 | 10 | \$35 | 72% | 23.9 |
| PECO | Economizer for Walk-in Coolers | No Economizer | Healthcare | Refrigeration | ROB | measure | 25,239 | 6.6% | 0.2 | 10 | \$35 | 72% | 23.9 |
| PECO | eCube | Refrigeration unit w/out eCube | Healthcare | Refrigeration | Existing | building | 22,315 | 15% | 0.2 | 15 | \$443 | 57% | 4.4 |
| PECO | eCube | Refrigeration unit w/out eCube | Healthcare | Refrigeration | New | building | 22,315 | 15% | 0.2 | 15 | \$443 | 57% | 4.4 |
| PECO | Efficient compressor motor | Base Refrigeration System - Grocery | Healthcare | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| PECO | Efficient compressor motor | Base Refrigeration System - Grocery | Healthcare | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| PECO | Efficient compressor motor | Base Refrigeration System - Grocery | Healthcare | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| PECO | Efficient compressor motor | Base Refrigeration System - Grocery | Healthcare | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| PECO | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Healthcare | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.6 |
| PECO | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Healthcare | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| PECO | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Healthcare | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| PECO | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Healthcare | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.3 |
| PECO | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Healthcare | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.8 |
| PECO | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Healthcare | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.8 |
| PECO | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Healthcare | Refrigeration | Existing | building | 22,315 | 0.7% | 0.01 | 10 | \$369 | 77% | 0.2 |
| PECO | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Healthcare | Refrigeration | New | building | 22,315 | 0.7% | 0.01 | 10 | \$369 | 77% | 0.2 |
| PECO | Floating head pressure controller | System w/out FHPC | Healthcare | Refrigeration | Existing | building | 1,933 | 12% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| PECO | Floating head pressure controller | System w/out FHPC | Healthcare | Refrigeration | Existing | building | 22,315 | 0.4% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| PECO | Floating head pressure controller | System w/out FHPC | Healthcare | Refrigeration | New | building | 1,933 | 12% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| PECO | Floating head pressure controller | System w/out FHPC | Healthcare | Refrigeration | New | building | 22,315 | 0.4% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| PECO | High Efficiency Commercial Freezer | Std. Commercial Freezer | Healthcare | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 84% | 0.3 |
| PECO | High Efficiency Commercial Freezer | Std. Commercial Freezer | Healthcare | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 84% | 4.2 |
| PECO | High Efficiency Commercial Freezer | Std. Commercial Freezer | Healthcare | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 84% | 4.2 |
| PECO | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Healthcare | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 21% | 0.1 |
| PECO | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Healthcare | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 21% | 0.9 |
| PECO | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Healthcare | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 21% | 0.9 |
| PECO | High Efficiency Ice Maker | Exisiting Standard Efficiency Ice Maker in Pennsylvania | Healthcare | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 69% | 0.2 |
| PECO | High Efficiency Ice Maker | Standard code minimum Ice Maker | Healthcare | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 69% | 0.2 |
| PECO | High Efficiency Ice Maker | Standard code minimum Ice Maker | Healthcare | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 69% | 0.2 |
| PECO | High Efficiency Ice Making Head | Standard Ice Making Head | Healthcare | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 4.1 |
| PECO | High Efficiency Ice Making Head | Standard Ice Making Head | Healthcare | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 4.1 |
| PECO | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Healthcare | Refrigeration | Early | Fixture | 373 | 56% | 0.02 | 8 | \$448 | 86% | 0.2 |
| PECO | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Healthcare | Refrigeration | New | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 86% | 0.3 |
| PECO | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Healthcare | Refrigeration | ROB | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 86% | 0.3 |
| PECO | Quick acting freezer doors | Std. Freezer Doors | Healthcare | Refrigeration | Existing | building | 1,933 | 13% | 0.1 | 10 | \$1,994 | 56% | 0.1 |
| PECO | Quick acting freezer doors | Std. Freezer Doors | Healthcare | Refrigeration | New | building | 1,933 | 13% | 0.1 | 10 | \$1,994 | 56% | 0.1 |
| PECO | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Healthcare | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 29% | 0.4 |
| PECO | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Healthcare | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 29% | 1.6 |
| PECO | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Healthcare | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 29% | 1.6 |
| PECO | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 29% | 1.7 |
| PECO | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 29% | 3.0 |
| PECO | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 29% | 3.0 |
| PECO | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 29% | 1.7 |
| PECO | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 29% | 4.0 |
| PECO | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 29% | 4.0 |
| PECO | Refrigeration Commissioning | Non-commissioned refrigeration system | Healthcare | Refrigeration | Existing | building | 25,127 | 9.5% | 0.10 | 3 | \$1,147 | 85% | 0.3 |
| PECO | Refrigeration Commissioning | Non-commissioned refrigeration system | Healthcare | Refrigeration | New | building | 25,127 | 9.5% | 0.10 | 3 | \$1,147 | 85% | 0.3 |
| PECO | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Healthcare | Refrigeration | Existing | building | 1,933 | 14% | 0.1 | 4 | \$93 | 22% | 1.0 |
| PECO | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Healthcare | Refrigeration | Existing | building | 22,315 | 2.9% | 0.03 | 4 | \$140 | 22% | 0.8 |
| PECO | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Healthcare | Refrigeration | New | building | 1,933 | 14% | 0.1 | 4 | \$93 | 22% | 1.0 |
| PECO | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Healthcare | Refrigeration | New | building | 22,315 | 2.9% | 0.03 | 4 | \$140 | 22% | 0.8 |
| PECO | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Healthcare | Refrigeration | Existing | building | 1,933 | 2.6% | 0.03 | 11 | \$130 | 77% | 0.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---|---|------------|-----------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Healthcare | Refrigeration | New | building | 1,933 | 2.6% | 0.03 | 11 | \$130 | 77% | 0.3 |
| PECO | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Healthcare | Refrigeration | Existing | building | 22,315 | 2.0% | 0.02 | 11 | \$130 | 77% | 1.6 |
| PECO | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Healthcare | Refrigeration | New | building | 22,315 | 2.0% | 0.02 | 11 | \$130 | 77% | 1.6 |
| PECO | Vendor Miser | No Vendor Miser | Healthcare | Refrigeration | Existing | building | 879 | 12% | 0.1 | 8 | \$88 | 7% | 1.3 |
| PECO | VSD Controlled Compressor | Compressor w/out VSD | Healthcare | Refrigeration | Early | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 73% | 0.2 |
| PECO | VSD Controlled Compressor | Compressor w/out VSD | Healthcare | Refrigeration | New | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 73% | 0.2 |
| PECO | VSD Controlled Compressor | Compressor w/out VSD | Healthcare | Refrigeration | ROB | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 73% | 0.2 |
| PECO | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Healthcare | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$269 | 35% | 0.9 |
| PECO | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Healthcare | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$269 | 35% | 0.9 |
| PECO | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Healthcare | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.2 |
| PECO | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Healthcare | Refrigeration | New | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 3.0 |
| PECO | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Healthcare | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.2 |
| PECO | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Healthcare | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 3.0 |
| PECO | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 35% | 2.4 |
| PECO | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 35% | 2.3 |
| PECO | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 5.2 |
| PECO | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.9 |
| PECO | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 5.2 |
| PECO | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.9 |
| PECO | Adding reflective roof treatment | Std color roof | Healthcare | Space Heating | Existing | building | 34,241 | 7.1% | 0.07 | 6 | \$15,370 | 82% | 0.0 |
| PECO | Adding reflective roof treatment | Std color roof | Healthcare | Space Heating | New | building | 34,241 | 7.1% | 0.07 | 6 | \$15,370 | 82% | 0.0 |
| PECO | Adding window shade film | No shade film | Healthcare | Space Heating | Existing | building | 34,241 | 1.3% | 0.4 | 10 | \$417 | 13% | 1.1 |
| PECO | Adding window shade film | No shade film | Healthcare | Space Heating | New | building | 34,241 | 1.3% | 0.4 | 10 | \$417 | 13% | 1.1 |
| PECO | Adding window shade screen | No shade screen | Healthcare | Space Heating | Existing | building | 34,241 | 1.1% | 0.01 | 10 | \$161 | 13% | 1.0 |
| PECO | Adding window shade screen | No shade screen | Healthcare | Space Heating | New | building | 34,241 | 1.1% | 0.01 | 10 | \$161 | 13% | 0.9 |
| PECO | Automated control system | Manual Controls | Healthcare | Space Heating | Existing | building | 34,241 | 17% | 0.2 | 15 | \$37,485 | 51% | 0.1 |
| PECO | Automated control system | Manual Controls | Healthcare | Space Heating | New | building | 34,241 | 17% | 0.2 | 15 | \$37,485 | 94% | 0.1 |
| PECO | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Healthcare | Space Heating | Existing | building | 34,241 | 1.1% | 0.01 | 15 | \$20,566 | 71% | 0.0 |
| PECO | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Healthcare | Space Heating | New | building | 34,241 | 0.3% | 0.00 | 15 | \$19,549 | 94% | 0.0 |
| PECO | Duct Insulation, Add R8 | No Insulation | Healthcare | Space Heating | Existing | building | 34,241 | 1.4% | 0.04 | 15 | \$272 | 20% | 1.1 |
| PECO | Duct Insulation, Add R8 | No Insulation | Healthcare | Space Heating | New | building | 34,241 | 1.4% | 0.04 | 15 | \$272 | 10% | 1.1 |
| PECO | Efficient Unit Heating System | Existing Unit Heaters in PA | Healthcare | Space Heating | Early | heater | 18,988 | 23% | 0.04 | 15 | \$3,289 | 83% | 0.7 |
| PECO | Efficient Unit Heating System | Std. Unit Heater | Healthcare | Space Heating | New | heater | 16,852 | 13% | 0.02 | 15 | \$1,991 | 83% | 0.6 |
| PECO | Efficient Unit Heating System | Std. Unit Heater | Healthcare | Space Heating | ROB | heater | 16,852 | 13% | 0.02 | 15 | \$1,991 | 83% | 0.6 |
| PECO | Facility Commissioning | No Facility Commissioning | Healthcare | Space Heating | New | building | 34,241 | 16% | 0.2 | 10 | \$69,058 | 89% | 0.0 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Healthcare | Space Heating | Existing | building | 34,241 | 7.1% | 0.07 | 15 | \$151,884 | 25% | 0.0 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Healthcare | Space Heating | New | building | 34,241 | 7.1% | 0.07 | 15 | \$151,884 | 35% | 0.0 |
| PECO | Hi Eff HVAC System Design | No HVAC Design | Healthcare | Space Heating | New | building | 34,241 | 8.6% | 0.09 | 10 | \$671,630 | 51% | 0.0 |
| PECO | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Healthcare | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 1.1 |
| PECO | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Healthcare | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 1.1 |
| PECO | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Healthcare | Space Heating | Existing | building | 34,241 | 2.1% | 0.02 | 10 | \$7,735 | 81% | 0.0 |
| PECO | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Healthcare | Space Heating | New | building | 34,241 | 2.1% | 0.02 | 10 | \$7,735 | 81% | 0.0 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Healthcare | Space Heating | Existing | building | 34,241 | 3.6% | 0.04 | 11 | \$286 | 49% | 1.9 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Healthcare | Space Heating | New | building | 34,241 | 3.1% | 0.03 | 11 | \$146 | 49% | 3.2 |
| PECO | Re-Commissioning (Existing Construction) | No Re-Commissioning | Healthcare | Space Heating | Existing | building | 34,241 | 16% | 0.2 | 5 | \$8,847 | 86% | 0.1 |
| PECO | VFD on Cooling Tower Fan | Motor w/out VFD | Healthcare | Space Heating | Early | motor | 48,837 | 70% | 3.4 | 15 | \$2,843 | 88% | 7.6 |
| PECO | VFD on Cooling Tower Fan | Motor w/out VFD | Healthcare | Space Heating | New | motor | 47,923 | 72% | 3.3 | 15 | \$2,843 | 88% | 7.5 |
| PECO | VFD on Cooling Tower Fan | Motor w/out VFD | Healthcare | Space Heating | ROB | motor | 47,923 | 72% | 3.3 | 15 | \$2,843 | 88% | 7.5 |
| PECO | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Healthcare | Space Heating | Existing | building | 34,241 | 2.6% | 0.03 | 15 | \$5,624 | 26% | 0.1 |
| PECO | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Healthcare | Space Heating | New | building | 34,241 | 0.1% | 0.00 | 15 | \$4,314 | 94% | 0.0 |
| PECO | Green LED Traffic Light | Green Incandescent Traffic Light | Healthcare | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 0% | 1.3 |
| PECO | Green LED Traffic Light | Green Incandescent Traffic Light | Healthcare | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.2 |
| PECO | Green LED Traffic Light | Green Incandescent Traffic Light | Healthcare | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.2 |
| PECO | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Healthcare | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 0% | 3.2 |
| PECO | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Healthcare | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| PECO | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Healthcare | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| PECO | Induction Street Lighting | One 100W HPS Street Light Fixture | Healthcare | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 0% | 0.3 |
| PECO | Induction Street Lighting | One 100W HPS Street Light Fixture | Healthcare | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.8 |
| PECO | Induction Street Lighting | One 100W HPS Street Light Fixture | Healthcare | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.8 |
| PECO | LED Street Lighting | One 100W HPS Street Light | Healthcare | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 0% | 0.2 |
| PECO | LED Street Lighting | One 100W HPS Street Light | Healthcare | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| PECO | LED Street Lighting | One 100W HPS Street Light | Healthcare | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| PECO | Red LED Traffic Light | One Red Incandescent Traffic Light | Healthcare | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 0% | 1.7 |
| PECO | Red LED Traffic Light | One Red Incandescent Traffic Light | Healthcare | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| PECO | Red LED Traffic Light | One Red Incandescent Traffic Light | Healthcare | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| PECO | Yellow LED Traffic Light | One Yellow Incandescent Traffic Light | Healthcare | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 0% | 0.1 |
| PECO | Yellow LED Traffic Light | One Yellow Incandescent Traffic Light | Healthcare | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|--|---|------------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Healthcare | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| PECO | Demand controlled Circulating Systems | Constant circulation system | Healthcare | Water Heating | Existing | building | 1,954 | 20% | 0.2 | 15 | \$355 | 59% | 1.2 |
| PECO | Demand controlled Circulating Systems | Constant circulation system | Healthcare | Water Heating | New | building | 1,954 | 20% | 0.2 | 15 | \$355 | 59% | 1.2 |
| PECO | Drainwater Heat Recovery Water Heater | No heat recovery | Healthcare | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 2.0 |
| PECO | Drainwater Heat Recovery Water Heater | No heat recovery | Healthcare | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 2.0 |
| PECO | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Healthcare | Water Heating | Existing | building | 1,954 | 5.9% | 0.06 | 12 | \$140 | 85% | 0.8 |
| PECO | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Healthcare | Water Heating | New | building | 1,954 | 5.9% | 0.06 | 12 | \$40 | 85% | 2.7 |
| PECO | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Healthcare | Water Heating | Early | water heater | 96,871 | 66% | 11.3 | 10 | \$3,562 | 68% | 9.7 |
| PECO | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Healthcare | Water Heating | Early | water heater | 96,871 | 66% | 11.3 | 10 | \$3,562 | 68% | 9.7 |
| PECO | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Healthcare | Water Heating | New | water heater | 96,871 | 66% | 11.3 | 10 | \$3,562 | 68% | 9.7 |
| PECO | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Healthcare | Water Heating | New | water heater | 96,871 | 66% | 11.3 | 10 | \$3,562 | 68% | 9.7 |
| PECO | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Healthcare | Water Heating | ROB | water heater | 94,180 | 65% | 10.9 | 10 | \$3,562 | 68% | 9.2 |
| PECO | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Healthcare | Water Heating | ROB | water heater | 94,180 | 65% | 10.9 | 10 | \$3,562 | 68% | 9.3 |
| PECO | Heat Recovery Unit | Base Water Heating | Healthcare | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.7 |
| PECO | Heat Recovery Unit | Base Water Heating | Healthcare | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.7 |
| PECO | Heat Trap | No Heat Trap | Healthcare | Water Heating | Existing | building | 1,954 | 1.0% | 0.01 | 11 | \$0.4 | 50% | 45.5 |
| PECO | Heat Trap | No Heat Trap | Healthcare | Water Heating | New | building | 1,954 | 1.0% | 0.01 | 11 | \$0.1 | 50% | 118.8 |
| PECO | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Healthcare | Water Heating | Early | water heater | 96,871 | 5.9% | 1.0 | 15 | \$921 | 79% | 4.6 |
| PECO | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Healthcare | Water Heating | Early | water heater | 96,871 | 5.9% | 1.0 | 15 | \$921 | 79% | 4.6 |
| PECO | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Healthcare | Water Heating | New | water heater | 94,180 | 3.2% | 0.5 | 15 | \$921 | 79% | 2.4 |
| PECO | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Healthcare | Water Heating | New | water heater | 94,180 | 3.2% | 0.5 | 15 | \$921 | 79% | 2.4 |
| PECO | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Healthcare | Water Heating | ROB | water heater | 94,180 | 3.2% | 0.5 | 15 | \$921 | 79% | 2.4 |
| PECO | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Healthcare | Water Heating | ROB | water heater | 94,180 | 3.2% | 0.5 | 15 | \$921 | 79% | 2.4 |
| PECO | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Healthcare | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$466 | 81% | 41.5 |
| PECO | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Healthcare | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 21.6 |
| PECO | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Healthcare | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 21.6 |
| PECO | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Healthcare | Water Heating | Existing | building | 1,954 | 3.1% | 0.03 | 13 | \$9.2 | 68% | 6.5 |
| PECO | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Healthcare | Water Heating | New | building | 1,954 | 3.1% | 0.03 | 13 | \$9.2 | 0% | 6.5 |
| PECO | Hot Water Circulation Pump Time-Clock | Constant circulation system | Healthcare | Water Heating | Existing | building | 1,954 | 5.3% | 0.05 | 10 | \$7.9 | 72% | 10.5 |
| PECO | Hot Water Circulation Pump Time-Clock | Constant circulation system | Healthcare | Water Heating | New | building | 1,954 | 5.3% | 0.05 | 10 | \$7.9 | 72% | 10.6 |
| PECO | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Healthcare | Water Heating | Existing | building | 1,736 | 0.1% | 0.00 | 7 | \$22 | 78% | 0.1 |
| PECO | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Healthcare | Water Heating | New | building | 1,736 | 0.1% | 0.00 | 7 | \$0.5 | 78% | 2.4 |
| PECO | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Healthcare | Water Heating | Existing | building | 1,954 | 9.7% | 0.10 | 5 | \$300 | 20% | 0.3 |
| PECO | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Healthcare | Water Heating | New | building | 1,954 | 6.4% | 0.06 | 5 | \$194 | 20% | 0.3 |
| PECO | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Healthcare | Water Heating | Existing | building | 1,954 | 6.5% | 0.07 | 9 | \$250 | 9% | 0.4 |
| PECO | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Healthcare | Water Heating | New | building | 1,954 | 6.5% | 0.07 | 9 | \$60 | 9% | 1.6 |
| PECO | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Healthcare | Water Heating | Early | water heater | 96,871 | 52% | 4.1 | 15 | \$18,666 | 32% | 1.7 |
| PECO | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Healthcare | Water Heating | New | water heater | 94,180 | 51% | 3.9 | 15 | \$18,666 | 32% | 1.6 |
| PECO | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Healthcare | Water Heating | ROB | water heater | 94,180 | 51% | 3.9 | 15 | \$18,666 | 32% | 1.6 |
| PECO | Ultrasonic Faucet Control | Manual Faucet Control | Healthcare | Water Heating | Existing | building | 1,954 | 3.0% | 0.03 | 10 | \$338 | 77% | 0.1 |
| PECO | Ultrasonic Faucet Control | Manual Faucet Control | Healthcare | Water Heating | New | building | 1,954 | 3.1% | 0.03 | 10 | \$338 | 77% | 0.1 |
| PECO | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Healthcare | Water Heating | Existing | building | 1,954 | 2.2% | 0.02 | 4 | \$28 | 83% | 0.6 |
| PECO | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Healthcare | Water Heating | New | building | 1,954 | 2.3% | 0.02 | 4 | \$28 | 83% | 0.6 |
| PECO | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Lodging | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.2 |
| PECO | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Lodging | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.2 |
| PECO | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Lodging | Cooking | Early | steamer | 51 | 46% | 0.00 | 12 | \$5,053 | 81% | 0.0 |
| PECO | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Lodging | Cooking | New | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| PECO | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Lodging | Cooking | ROB | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| PECO | Electric combination oven (Energy Star) | Standard Oven | Lodging | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 3.3 |
| PECO | Electric combination oven (Energy Star) | Standard Oven | Lodging | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 3.3 |
| PECO | Electric Convection Oven | Conventional convection oven w/ 65% efficiency | Lodging | Cooking | Early | oven | 8,641 | 37% | 0.6 | 12 | \$4,119 | 81% | 0.5 |
| PECO | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Lodging | Cooking | New | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.8 |
| PECO | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Lodging | Cooking | ROB | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.8 |
| PECO | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Lodging | Cooking | Early | fryer | 6,105 | 23% | 0.3 | 12 | \$9,241 | 86% | 0.1 |
| PECO | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Lodging | Cooking | New | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.4 |
| PECO | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Lodging | Cooking | ROB | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.4 |
| PECO | High Efficiency Griddle (ENERGY STAR) | Efficiency code minimum griddle (70% eff) | Lodging | Cooking | Early | griddle | 11,317 | 65% | 1.4 | 12 | \$4,977 | 86% | 1.0 |
| PECO | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Lodging | Cooking | New | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.3 |
| PECO | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Lodging | Cooking | ROB | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.3 |
| PECO | High Efficiency Induction Cooking | Standard Cooking | Lodging | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.2 |
| PECO | High Efficiency Induction Cooking | Standard Cooking | Lodging | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.2 |
| PECO | Adding reflective roof treatment | Std color roof | Lodging | Cooling Central | Existing | building | 5,083 | 7.0% | 0.07 | 6 | \$17,687 | 82% | 0.0 |
| PECO | Adding reflective roof treatment | Std color roof | Lodging | Cooling Central | New | building | 5,083 | 7.0% | 0.07 | 6 | \$17,687 | 82% | 0.0 |
| PECO | Adding window shade film | No shade film | Lodging | Cooling Central | Existing | building | 5,083 | 1.3% | 0.4 | 10 | \$62 | 12% | 5.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|--|---|---------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Adding window shade film | No shade film | Lodging | Cooling Central | New | building | 5,083 | 1.3% | 0.4 | 10 | \$62 | 13% | 5.2 |
| PECO | Adding window shade screen | No shade screen | Lodging | Cooling Central | Existing | building | 5,083 | 1.1% | 0.01 | 10 | \$24 | 13% | 1.3 |
| PECO | Adding window shade screen | No shade screen | Lodging | Cooling Central | New | building | 5,083 | 1.1% | 0.01 | 10 | \$24 | 13% | 1.3 |
| PECO | Automated control system | Manual Controls | Lodging | Cooling Central | Existing | building | 5,083 | 17% | 0.2 | 15 | \$5,565 | 51% | 0.1 |
| PECO | Automated control system | Manual Controls | Lodging | Cooling Central | New | building | 5,083 | 17% | 0.2 | 15 | \$5,565 | 94% | 0.1 |
| PECO | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Lodging | Cooling Central | Existing | building | 5,083 | 3.3% | 0.03 | 15 | \$23,552 | 71% | 0.0 |
| PECO | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Lodging | Cooling Central | New | building | 5,083 | 1.1% | 0.01 | 15 | \$22,387 | 94% | 0.0 |
| PECO | Chiller Tuneup/Diagnostics | No tuneup | Lodging | Cooling Central | Existing | building | 5,083 | 8.0% | 0.08 | 10 | \$12,980 | 59% | 0.0 |
| PECO | Chiller Tuneup/Diagnostics | No tuneup | Lodging | Cooling Central | New | building | 5,083 | 8.0% | 0.08 | 10 | \$12,980 | 59% | 0.0 |
| PECO | Commercial energy recovery ventilation systems | No Commercial Recovery System | Lodging | Cooling Central | Existing | building | 5,083 | 16% | 0.2 | 14 | \$4,594 | 71% | 0.1 |
| PECO | Cooling Tower Optimization | No Cooling Tower Optimization | Lodging | Cooling Central | Existing | building | 5,083 | 20% | 0.2 | 10 | \$31 | 69% | 18.0 |
| PECO | Duct insulation, Add R8 | No Insulation | Lodging | Cooling Central | Existing | building | 5,083 | 1.4% | 0.04 | 15 | \$40 | 20% | 2.0 |
| PECO | Duct insulation, Add R8 | No Insulation | Lodging | Cooling Central | New | building | 5,083 | 1.4% | 0.04 | 15 | \$40 | 10% | 2.0 |
| PECO | Facility Commissioning | No Facility Commissioning | Lodging | Cooling Central | New | building | 5,083 | 16% | 0.2 | 10 | \$2,323 | 89% | 0.2 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Lodging | Cooling Central | Existing | building | 5,083 | 7.0% | 0.07 | 15 | \$22,549 | 25% | 0.0 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Lodging | Cooling Central | New | building | 5,083 | 7.0% | 0.07 | 15 | \$22,549 | 35% | 0.0 |
| PECO | Hi Eff HVAC System Design | No HVAC Design | Lodging | Cooling Central | New | building | 5,083 | 7.3% | 0.07 | 10 | \$66,490 | 51% | 0.0 |
| PECO | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Lodging | Cooling Central | Early | ton | 16,186 | 24% | 0.9 | 15 | \$108,550 | 88% | 0.0 |
| PECO | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Lodging | Cooling Central | New | ton | 13,232 | 6.7% | 0.2 | 15 | \$12,927 | 88% | 0.1 |
| PECO | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Lodging | Cooling Central | ROB | ton | 13,232 | 6.7% | 0.2 | 15 | \$12,927 | 88% | 0.1 |
| PECO | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Lodging | Cooling Central | Early | ton | 24,187 | 23% | 1.3 | 15 | \$140,105 | 88% | 0.0 |
| PECO | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Lodging | Cooling Central | New | ton | 19,459 | 4.9% | 0.2 | 15 | \$9,336 | 88% | 0.1 |
| PECO | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Lodging | Cooling Central | ROB | ton | 19,459 | 4.9% | 0.2 | 15 | \$9,336 | 88% | 0.1 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Lodging | Cooling Central | Early | ton | 197,997 | 26% | 11.5 | 15 | \$105,354 | 88% | 0.4 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Lodging | Cooling Central | New | ton | 172,512 | 15% | 5.8 | 15 | \$30,530 | 88% | 0.7 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Lodging | Cooling Central | ROB | ton | 172,512 | 15% | 5.8 | 15 | \$30,530 | 88% | 0.7 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Lodging | Cooling Central | Early | ton | 296,546 | 23% | 15.3 | 15 | \$154,107 | 88% | 0.4 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Lodging | Cooling Central | New | ton | 272,414 | 16% | 9.8 | 15 | \$27,646 | 88% | 1.3 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Lodging | Cooling Central | ROB | ton | 296,546 | 23% | 15.3 | 15 | \$27,646 | 88% | 2.0 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Lodging | Cooling Central | Early | ton | 492,506 | 23% | 25.0 | 15 | \$302,924 | 88% | 0.3 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Lodging | Cooling Central | New | ton | 445,753 | 14% | 14.5 | 15 | \$115,432 | 88% | 0.4 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Lodging | Cooling Central | ROB | ton | 492,506 | 23% | 25.0 | 15 | \$115,432 | 88% | 0.8 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Lodging | Cooling Central | Early | ton | 591,007 | 23% | 30.1 | 15 | \$350,154 | 88% | 0.3 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Lodging | Cooling Central | New | ton | 534,904 | 14% | 17.4 | 15 | \$120,406 | 88% | 0.5 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Lodging | Cooling Central | ROB | ton | 591,007 | 23% | 30.1 | 15 | \$120,406 | 88% | 0.9 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Lodging | Cooling Central | Early | ton | 131,002 | 29% | 8.6 | 15 | \$83,632 | 88% | 0.4 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Lodging | Cooling Central | New | ton | 101,721 | 8.9% | 2.0 | 15 | \$40,211 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Lodging | Cooling Central | ROB | ton | 131,002 | 29% | 8.6 | 15 | \$40,211 | 88% | 0.8 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Lodging | Cooling Central | Early | ton | 225,094 | 35% | 17.6 | 15 | \$132,173 | 88% | 0.5 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Lodging | Cooling Central | New | ton | 167,881 | 13% | 4.8 | 15 | \$39,556 | 88% | 0.4 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Lodging | Cooling Central | ROB | ton | 167,881 | 13% | 4.8 | 15 | \$39,556 | 88% | 0.4 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Lodging | Cooling Central | Early | ton | 375,812 | 39% | 33.1 | 15 | \$187,029 | 88% | 0.6 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Lodging | Cooling Central | New | ton | 267,948 | 15% | 8.8 | 15 | \$33,554 | 88% | 0.9 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Lodging | Cooling Central | ROB | ton | 375,812 | 39% | 33.1 | 15 | \$33,554 | 88% | 3.5 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Lodging | Cooling Central | Early | ton | 65,761 | 30% | 4.4 | 15 | \$32,398 | 88% | 0.5 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Lodging | Cooling Central | New | ton | 52,101 | 11% | 1.3 | 15 | \$7,188 | 88% | 0.6 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Lodging | Cooling Central | ROB | ton | 65,761 | 30% | 4.4 | 15 | \$7,188 | 88% | 2.2 |
| PECO | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Lodging | Cooling Central | Existing | building | 5,083 | 3.5% | 0.04 | 10 | \$2,396 | 81% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---|---|---------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Lodging | Cooling Central | New | building | 5,083 | 3.5% | 0.04 | 10 | \$2,396 | 81% | 0.0 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Lodging | Cooling Central | Existing | building | 5,083 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.2 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Lodging | Cooling Central | New | building | 5,083 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.4 |
| PECO | Re-Commissioning (Existing Construction) | No Re-Commissioning | Lodging | Cooling Central | Existing | building | 5,083 | 16% | 0.2 | 5 | \$12,530 | 86% | 0.0 |
| PECO | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Lodging | Cooling Central | Existing | building | 5,083 | 8.0% | 0.08 | 15 | \$6,019 | 26% | 0.1 |
| PECO | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Lodging | Cooling Central | New | building | 5,083 | 0.2% | 0.00 | 15 | \$4,617 | 94% | 0.0 |
| PECO | <65k BTU/hr 14 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Lodging | Cooling Unitary | Early | ton | 4,256 | 16% | 0.4 | 15 | \$1,545 | 29% | 0.5 |
| PECO | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Lodging | Cooling Unitary | New | ton | 3,855 | 7.1% | 0.2 | 15 | \$339 | 29% | 1.0 |
| PECO | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Lodging | Cooling Unitary | ROB | ton | 3,855 | 7.1% | 0.2 | 15 | \$339 | 29% | 1.0 |
| PECO | <65k BTU/hr 15 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Lodging | Cooling Unitary | Early | ton | 4,256 | 22% | 0.5 | 15 | \$1,821 | 30% | 0.6 |
| PECO | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Lodging | Cooling Unitary | New | ton | 3,855 | 13% | 0.3 | 15 | \$714 | 30% | 0.9 |
| PECO | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Lodging | Cooling Unitary | ROB | ton | 3,855 | 13% | 0.3 | 15 | \$714 | 30% | 0.9 |
| PECO | <65k BTU/hr 16 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Lodging | Cooling Unitary | Early | ton | 4,256 | 26% | 0.7 | 15 | \$2,098 | 31% | 0.6 |
| PECO | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Lodging | Cooling Unitary | New | ton | 3,855 | 19% | 0.4 | 15 | \$1,089 | 31% | 0.8 |
| PECO | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Lodging | Cooling Unitary | ROB | ton | 3,855 | 19% | 0.4 | 15 | \$1,089 | 31% | 0.8 |
| PECO | >760k min 10.2 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Lodging | Cooling Unitary | Early | ton | 107,683 | 3.7% | 2.4 | 15 | \$68,066 | 56% | 0.1 |
| PECO | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Lodging | Cooling Unitary | New | ton | 109,064 | 4.9% | 3.2 | 15 | \$6,231 | 56% | 1.0 |
| PECO | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Lodging | Cooling Unitary | ROB | ton | 109,064 | 4.9% | 3.2 | 15 | \$6,231 | 56% | 1.0 |
| PECO | 135-240k min 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Lodging | Cooling Unitary | Early | ton | 26,496 | 18% | 2.9 | 15 | \$18,135 | 79% | 0.3 |
| PECO | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Lodging | Cooling Unitary | New | ton | 24,102 | 10.0% | 1.4 | 15 | \$1,948 | 79% | 1.5 |
| PECO | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Lodging | Cooling Unitary | ROB | ton | 24,102 | 10.0% | 1.4 | 15 | \$1,948 | 79% | 1.5 |
| PECO | 240k-760k min 11 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Lodging | Cooling Unitary | Early | ton | 70,844 | 9.0% | 3.8 | 15 | \$44,809 | 66% | 0.2 |
| PECO | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Lodging | Cooling Unitary | New | ton | 71,020 | 9.3% | 3.9 | 15 | \$4,813 | 66% | 1.6 |
| PECO | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Lodging | Cooling Unitary | ROB | ton | 71,020 | 9.3% | 3.9 | 15 | \$4,813 | 66% | 1.6 |
| PECO | 65k-135k BTU/hr 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Lodging | Cooling Unitary | Early | ton | 15,619 | 17% | 1.6 | 15 | \$10,946 | 86% | 0.3 |
| PECO | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Lodging | Cooling Unitary | New | ton | 13,920 | 6.7% | 0.6 | 15 | \$1,392 | 86% | 0.8 |
| PECO | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Lodging | Cooling Unitary | ROB | ton | 13,920 | 6.7% | 0.6 | 15 | \$1,392 | 86% | 0.8 |
| PECO | Adding reflective roof treatment | Std color roof | Lodging | Cooling Unitary | Existing | building | 60,638 | 7.1% | 0.07 | 6 | \$17,687 | 82% | 0.1 |
| PECO | Adding reflective roof treatment | Std color roof | Lodging | Cooling Unitary | New | building | 60,638 | 7.1% | 0.07 | 6 | \$17,687 | 82% | 0.1 |
| PECO | Adding window shade film | No shade film | Lodging | Cooling Unitary | Existing | building | 60,638 | 1.3% | 0.4 | 10 | \$738 | 12% | 0.8 |
| PECO | Adding window shade film | No shade film | Lodging | Cooling Unitary | New | building | 60,638 | 1.3% | 0.4 | 10 | \$738 | 13% | 0.8 |
| PECO | Adding window shade screen | No shade screen | Lodging | Cooling Unitary | Existing | building | 60,638 | 1.1% | 0.01 | 10 | \$285 | 12% | 1.0 |
| PECO | Adding window shade screen | No shade screen | Lodging | Cooling Unitary | New | building | 60,638 | 1.1% | 0.01 | 10 | \$285 | 13% | 1.0 |
| PECO | Automated control system | Manual Controls | Lodging | Cooling Unitary | Existing | building | 60,638 | 17% | 0.2 | 15 | \$66,384 | 51% | 0.1 |
| PECO | Automated control system | Manual Controls | Lodging | Cooling Unitary | New | building | 60,638 | 17% | 0.2 | 15 | \$66,384 | 94% | 0.1 |
| PECO | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Lodging | Cooling Unitary | Existing | building | 60,638 | 3.4% | 0.03 | 15 | \$23,552 | 71% | 0.1 |
| PECO | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Lodging | Cooling Unitary | New | building | 60,638 | 1.1% | 0.01 | 15 | \$22,387 | 94% | 0.0 |
| PECO | Commercial energy recovery ventilation systems | No Commercial Recovery System | Lodging | Cooling Unitary | Existing | building | 60,638 | 16% | 0.2 | 14 | \$54,795 | 71% | 0.1 |
| PECO | Duct Insulation, Add R8 | No Insulation | Lodging | Cooling Unitary | Existing | building | 60,638 | 1.4% | 0.04 | 15 | \$482 | 20% | 1.1 |
| PECO | Duct Insulation, Add R8 | No Insulation | Lodging | Cooling Unitary | New | building | 60,638 | 1.4% | 0.04 | 15 | \$482 | 10% | 1.1 |
| PECO | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Lodging | Cooling Unitary | Existing | building | 33,137 | 13% | 0.1 | 1 | \$318 | 73% | 0.7 |
| PECO | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Lodging | Cooling Unitary | New | building | 33,137 | 13% | 0.1 | 1 | \$318 | 73% | 0.7 |
| PECO | ECM Motors for split systems | Std Shaded Pole Motor | Lodging | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 3.2 |
| PECO | ECM Motors for split systems | Std Shaded Pole Motor | Lodging | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 3.2 |
| PECO | Facility Commissioning | No Facility Commissioning | Lodging | Cooling Unitary | New | building | 60,638 | 16% | 0.2 | 10 | \$984 | 89% | 4.2 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Lodging | Cooling Unitary | Existing | building | 60,638 | 7.1% | 0.07 | 15 | \$268,975 | 25% | 0.0 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Lodging | Cooling Unitary | New | building | 60,638 | 7.1% | 0.07 | 15 | \$268,975 | 35% | 0.0 |
| PECO | Hi Eff HVAC System Design | No HVAC Design | Lodging | Cooling Unitary | New | building | 60,638 | 7.3% | 0.07 | 10 | \$6,785 | 51% | 0.3 |
| PECO | Hotel Occupancy Sensor | HVAC system w/out Occupancy Sensors | Lodging | Cooling Unitary | Existing | building | 60,638 | 3.5% | 0.04 | 15 | \$11,644 | 89% | 0.1 |
| PECO | Hotel Occupancy Sensor | HVAC system w/out Occupancy Sensors | Lodging | Cooling Unitary | New | building | 60,638 | 3.5% | 0.04 | 15 | \$11,644 | 94% | 0.1 |
| PECO | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Lodging | Cooling Unitary | Existing | building | 60,638 | 5.0% | 0.05 | 5 | \$225 | 59% | 3.0 |
| PECO | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Lodging | Cooling Unitary | Existing | building | 60,638 | 3.5% | 0.04 | 10 | \$2,575 | 86% | 0.4 |
| PECO | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Lodging | Cooling Unitary | New | building | 60,638 | 3.5% | 0.04 | 10 | \$2,575 | 86% | 0.4 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) | Lodging | Cooling Unitary | Existing | building | 60,638 | 2.0% | 0.02 | 11 | \$286 | 49% | 2.0 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Lodging | Cooling Unitary | New | building | 60,638 | 1.7% | 0.02 | 11 | \$146 | 49% | 3.3 |
| PECO | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Lodging | Cooling Unitary | Early | unit | 728 | 19% | 0.03 | 15 | \$849 | 85% | 0.1 |
| PECO | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Lodging | Cooling Unitary | New | unit | 735 | 20% | 0.03 | 15 | \$356 | 85% | 0.3 |
| PECO | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Lodging | Cooling Unitary | ROB | unit | 735 | 20% | 0.03 | 15 | \$356 | 85% | 0.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|--|--|---------|-----------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Re-Commissioning (Existing Construction) | No Re-Commissioning | Lodging | Cooling Unitary | Existing | building | 60,638 | 16% | 0.2 | 5 | \$12,530 | 86% | 0.2 |
| PECO | Room AC (w/ louvered sides) | Existing efficiency Room AC in Pennsylvania (2000 Federal Standards) | Lodging | Cooling Unitary | Early | ton | 2,500 | 13% | 0.08 | 9 | \$348 | 82% | 0.5 |
| PECO | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Lodging | Cooling Unitary | New | ton | 2,266 | 4.5% | 0.02 | 9 | \$17 | 82% | 3.2 |
| PECO | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Lodging | Cooling Unitary | ROB | ton | 2,266 | 4.5% | 0.02 | 9 | \$17 | 82% | 3.2 |
| PECO | Wall Insualtions (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Lodging | Cooling Unitary | Existing | building | 60,638 | 8.2% | 0.08 | 15 | \$6,019 | 26% | 0.5 |
| PECO | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Lodging | Cooling Unitary | New | building | 60,638 | 0.2% | 0.00 | 15 | \$4,617 | 94% | 0.0 |
| PECO | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Lodging | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 1.1 |
| PECO | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Lodging | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.4 |
| PECO | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Lodging | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.4 |
| PECO | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Lodging | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 0% | 0.2 |
| PECO | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Lodging | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| PECO | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Lodging | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| PECO | LED exterior lighting | 250 Watt Incandescent | Lodging | Ext. Lighting | ROB | measure | 529 | 83% | 0.07 | 15 | \$104 | 89% | 2.7 |
| PECO | LED exterior lighting | 250 Watt Incandescent | Lodging | Ext. Lighting | ROB | measure | 529 | 83% | 0.07 | 15 | \$104 | 89% | 2.7 |
| PECO | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Lodging | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 75% | 0.3 |
| PECO | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Lodging | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 75% | 0.2 |
| PECO | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Lodging | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.6 |
| PECO | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Lodging | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.0 |
| PECO | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Lodging | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.6 |
| PECO | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Lodging | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.0 |
| PECO | Photocell Controls (Outdoor) | Lighting w/ No Controls | Lodging | Ext. Lighting | Existing | building | 123 | 28% | 0.3 | 8 | \$4,117 | 88% | 0.0 |
| PECO | Photocell Controls (Outdoor) | Lighting w/ No Controls | Lodging | Ext. Lighting | New | building | 123 | 28% | 0.3 | 8 | \$4,117 | 0% | 0.0 |
| PECO | Adding reflective roof treatment | Std color roof | Lodging | Heat Pump | Existing | building | 5,472 | 6.9% | 0.07 | 6 | \$17,687 | 82% | 0.0 |
| PECO | Adding reflective roof treatment | Std color roof | Lodging | Heat Pump | New | building | 5,472 | 6.9% | 0.07 | 6 | \$17,687 | 82% | 0.0 |
| PECO | Adding window shade film | No shade film | Lodging | Heat Pump | Existing | building | 5,472 | 3.9% | 0.4 | 10 | \$67 | 12% | 5.7 |
| PECO | Adding window shade film | No shade film | Lodging | Heat Pump | New | building | 5,472 | 3.9% | 0.4 | 10 | \$67 | 12% | 5.7 |
| PECO | Adding window shade screen | No shade screen | Lodging | Heat Pump | Existing | building | 5,472 | 0.3% | 0.01 | 10 | \$8.6 | 12% | 1.8 |
| PECO | Adding window shade screen | No shade screen | Lodging | Heat Pump | New | building | 5,472 | 0.3% | 0.01 | 10 | \$8.6 | 12% | 1.8 |
| PECO | Automated control system | Manual Controls | Lodging | Heat Pump | Existing | building | 5,472 | 17% | 0.2 | 15 | \$5,990 | 51% | 0.1 |
| PECO | Automated control system | Manual Controls | Lodging | Heat Pump | New | building | 5,472 | 17% | 0.2 | 15 | \$5,990 | 94% | 0.1 |
| PECO | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Lodging | Heat Pump | Existing | building | 5,472 | 3.3% | 0.03 | 15 | \$23,552 | 71% | 0.0 |
| PECO | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Lodging | Heat Pump | New | building | 5,472 | 1.1% | 0.01 | 15 | \$22,387 | 94% | 0.0 |
| PECO | Commercial energy recovery ventilation systems | No Commercial Recovery System | Lodging | Heat Pump | Existing | building | 5,472 | 16% | 0.2 | 14 | \$337,044 | 71% | 0.0 |
| PECO | Duct Insulation, Add R8 | No Insulation | Lodging | Heat Pump | Existing | building | 5,472 | 4.0% | 0.04 | 15 | \$43 | 12% | 3.8 |
| PECO | Duct Insulation, Add R8 | No Insulation | Lodging | Heat Pump | New | building | 5,472 | 4.0% | 0.04 | 15 | \$43 | 6% | 3.8 |
| PECO | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Lodging | Heat Pump | Early | heat pump | 4,910 | 12% | 0.1 | 15 | \$4,070 | 83% | 0.1 |
| PECO | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Lodging | Heat Pump | New | heat pump | 4,686 | 7.8% | 0.08 | 15 | \$1,097 | 83% | 0.3 |
| PECO | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Lodging | Heat Pump | ROB | heat pump | 4,686 | 7.8% | 0.08 | 15 | \$1,097 | 83% | 0.3 |
| PECO | Facility Commissioning | No Facility Commissioning | Lodging | Heat Pump | New | building | 5,472 | 16% | 0.2 | 10 | \$2,323 | 89% | 0.2 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Lodging | Heat Pump | Existing | building | 5,472 | 7.0% | 0.07 | 15 | \$24,271 | 25% | 0.0 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Lodging | Heat Pump | New | building | 5,472 | 7.0% | 0.07 | 15 | \$24,271 | 35% | 0.0 |
| PECO | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Lodging | Heat Pump | Early | heat pump | 50,544 | 16% | 1.8 | 15 | \$91,117 | 19% | 0.1 |
| PECO | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Lodging | Heat Pump | New | heat pump | 48,738 | 13% | 1.4 | 15 | \$33,927 | 19% | 0.1 |
| PECO | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Lodging | Heat Pump | ROB | heat pump | 48,738 | 13% | 1.4 | 15 | \$33,927 | 19% | 0.1 |
| PECO | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Lodging | Heat Pump | Early | heat pump | 50,544 | 16% | 1.8 | 15 | \$58,356 | 19% | 0.1 |
| PECO | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Lodging | Heat Pump | New | heat pump | 48,738 | 13% | 1.4 | 15 | \$1,167 | 19% | 4.3 |
| PECO | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Lodging | Heat Pump | ROB | heat pump | 48,738 | 13% | 1.4 | 15 | \$1,167 | 19% | 4.3 |
| PECO | Hi Eff HVAC System Design | No HVAC Design | Lodging | Heat Pump | New | building | 5,472 | 7.3% | 0.07 | 10 | \$66,490 | 51% | 0.0 |
| PECO | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Lodging | Heat Pump | Early | heat pump | 13,093 | 16% | 0.5 | 12 | \$4,298 | 81% | 0.3 |
| PECO | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Lodging | Heat Pump | Early | heat pump | 13,093 | 25% | 0.8 | 12 | \$5,883 | 81% | 0.4 |
| PECO | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Lodging | Heat Pump | New | heat pump | 12,495 | 12% | 0.3 | 12 | \$852 | 81% | 1.2 |
| PECO | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Lodging | Heat Pump | New | heat pump | 12,495 | 22% | 0.6 | 12 | \$2,437 | 81% | 0.8 |
| PECO | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Lodging | Heat Pump | ROB | heat pump | 12,495 | 12% | 0.3 | 12 | \$852 | 81% | 1.2 |
| PECO | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Lodging | Heat Pump | ROB | heat pump | 12,495 | 22% | 0.6 | 12 | \$2,437 | 81% | 0.8 |
| PECO | Hotel Occupancy Sensor | HVAC system w/out Occupancy Sensors | Lodging | Heat Pump | Existing | building | 5,472 | 3.5% | 0.04 | 15 | \$11,644 | 89% | 0.0 |
| PECO | Hotel Occupancy Sensor | HVAC system w/out Occupancy Sensors | Lodging | Heat Pump | New | building | 5,472 | 3.5% | 0.04 | 15 | \$11,644 | 94% | 0.0 |
| PECO | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Lodging | Heat Pump | Existing | building | 5,472 | 3.5% | 0.04 | 10 | \$2,292 | 81% | 0.0 |
| PECO | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Lodging | Heat Pump | New | building | 5,472 | 3.5% | 0.04 | 10 | \$2,292 | 81% | 0.0 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Lodging | Heat Pump | Existing | building | 5,472 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.3 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Lodging | Heat Pump | New | building | 5,472 | 2.1% | 0.02 | 11 | \$146 | 49% | 0.5 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---|---|---------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Re-Commissioning (Existing Construction) | No Re-Commissioning | Lodging | Heat Pump | Existing | building | 5,472 | 16% | 0.2 | 5 | \$12,530 | 86% | 0.0 |
| PECO | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Lodging | Heat Pump | New | measure | 763,332 | 2.0% | 1.7 | 13 | \$96,095 | 43% | 0.1 |
| PECO | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Lodging | Heat Pump | ROB | measure | 763,332 | 2.0% | 1.7 | 13 | \$96,095 | 43% | 0.1 |
| PECO | Wall Insualtions (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Lodging | Heat Pump | Existing | building | 5,472 | 8.0% | 0.08 | 15 | \$6,019 | 26% | 0.1 |
| PECO | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Lodging | Heat Pump | New | building | 5,472 | 0.2% | 0.00 | 15 | \$4,617 | 94% | 0.0 |
| PECO | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Lodging | Heat Pump | Early | heat pump | 21,036 | 35% | 1.7 | 15 | \$35,347 | 28% | 0.2 |
| PECO | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Lodging | Heat Pump | New | heat pump | 20,010 | 32% | 1.4 | 15 | \$15,739 | 28% | 0.3 |
| PECO | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Lodging | Heat Pump | ROB | heat pump | 20,010 | 32% | 1.4 | 15 | \$15,739 | 28% | 0.3 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Lodging | High Bay Lighting | Early | Fixture | 754 | 9.6% | 0.01 | 13 | \$850 | 39% | 0.1 |
| PECO | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Lodging | High Bay Lighting | Early | Fixture | 753 | 9.5% | 0.01 | 13 | \$850 | 28% | 0.1 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Lodging | High Bay Lighting | Early | Fixture | 1,162 | 41% | 0.07 | 13 | \$850 | 36% | 0.4 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Lodging | High Bay Lighting | New | Fixture | 573 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Lodging | High Bay Lighting | New | Fixture | 533 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Lodging | High Bay Lighting | New | Fixture | 883 | 41% | 0.05 | 13 | \$397 | 36% | 0.6 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Lodging | High Bay Lighting | ROB | Fixture | 754 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Lodging | High Bay Lighting | ROB | Fixture | 701 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Lodging | High Bay Lighting | ROB | Fixture | 1,162 | 41% | 0.07 | 13 | \$397 | 36% | 0.8 |
| PECO | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Lodging | High Bay Lighting | Early | Fixture | 1,463 | 19% | 0.04 | 13 | \$851 | 38% | 0.2 |
| PECO | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Lodging | High Bay Lighting | Early | Fixture | 1,481 | 20% | 0.04 | 13 | \$851 | 38% | 0.2 |
| PECO | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | Early | Fixture | 4,309 | 73% | 0.5 | 13 | \$851 | 38% | 2.4 |
| PECO | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Lodging | High Bay Lighting | New | Fixture | 1,112 | 19% | 0.03 | 13 | \$372 | 38% | 0.4 |
| PECO | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | New | Fixture | 3,275 | 73% | 0.4 | 13 | \$383 | 38% | 4.0 |
| PECO | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Lodging | High Bay Lighting | ROB | Fixture | 1,463 | 19% | 0.04 | 13 | \$372 | 38% | 0.5 |
| PECO | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | ROB | Fixture | 4,309 | 73% | 0.5 | 13 | \$383 | 38% | 5.3 |
| PECO | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Lodging | High Bay Lighting | Early | Fixture | 1,463 | 25% | 0.05 | 13 | \$554 | 29% | 0.4 |
| PECO | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Lodging | High Bay Lighting | Early | Fixture | 1,436 | 23% | 0.05 | 13 | \$554 | 28% | 0.4 |
| PECO | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | Early | Fixture | 4,309 | 74% | 0.5 | 13 | \$554 | 36% | 3.7 |
| PECO | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Lodging | High Bay Lighting | New | Fixture | 1,112 | 25% | 0.04 | 13 | \$75 | 29% | 2.4 |
| PECO | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | New | Fixture | 3,275 | 74% | 0.4 | 13 | \$86 | 36% | 18.3 |
| PECO | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Lodging | High Bay Lighting | ROB | Fixture | 1,463 | 25% | 0.05 | 13 | \$75 | 29% | 3.1 |
| PECO | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | ROB | Fixture | 4,309 | 74% | 0.5 | 13 | \$86 | 36% | 24.1 |
| PECO | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Lodging | High Bay Lighting | Early | Fixture | 381 | 0.2% | 0.00 | 13 | \$835 | 38% | 0.0 |
| PECO | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Lodging | High Bay Lighting | Early | Fixture | 822 | 54% | 0.07 | 13 | \$835 | 38% | 0.3 |
| PECO | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Lodging | High Bay Lighting | New | Fixture | 625 | 54% | 0.05 | 13 | \$382 | 38% | 0.6 |
| PECO | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Lodging | High Bay Lighting | ROB | Fixture | 822 | 54% | 0.07 | 13 | \$382 | 38% | 0.7 |
| PECO | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Lodging | High Bay Lighting | Early | Fixture | 1,864 | 18% | 0.05 | 13 | \$487 | 25% | 0.5 |
| PECO | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Lodging | High Bay Lighting | Early | Fixture | 1,949 | 22% | 0.06 | 13 | \$487 | 28% | 0.6 |
| PECO | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | Early | Fixture | 4,309 | 65% | 0.4 | 13 | \$487 | 36% | 3.7 |
| PECO | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Lodging | High Bay Lighting | New | Fixture | 1,417 | 18% | 0.04 | 13 | \$16 | 25% | 10.3 |
| PECO | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | New | Fixture | 3,275 | 65% | 0.3 | 13 | \$18 | 36% | 74.3 |
| PECO | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Lodging | High Bay Lighting | ROB | Fixture | 1,864 | 18% | 0.05 | 13 | \$16 | 25% | 13.5 |
| PECO | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | ROB | Fixture | 4,309 | 65% | 0.4 | 13 | \$18 | 36% | 97.7 |
| PECO | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Lodging | High Bay Lighting | Early | Fixture | 1,864 | 1.5% | 0.00 | 13 | \$557 | 19% | 0.0 |
| PECO | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Lodging | High Bay Lighting | Early | Fixture | 1,919 | 4.3% | 0.01 | 13 | \$557 | 19% | 0.1 |
| PECO | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | Early | Fixture | 4,309 | 57% | 0.4 | 13 | \$557 | 19% | 2.9 |
| PECO | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Lodging | High Bay Lighting | New | Fixture | 1,417 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.2 |
| PECO | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | New | Fixture | 3,275 | 57% | 0.3 | 13 | \$88 | 19% | 13.7 |
| PECO | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Lodging | High Bay Lighting | ROB | Fixture | 1,864 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.2 |
| PECO | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | ROB | Fixture | 4,309 | 57% | 0.4 | 13 | \$88 | 19% | 18.1 |
| PECO | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Lodging | High Bay Lighting | Early | Fixture | 791 | 29% | 0.02 | 13 | \$492 | 71% | 0.3 |
| PECO | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Lodging | High Bay Lighting | Early | Fixture | 662 | 15% | 0.01 | 13 | \$492 | 95% | 0.1 |
| PECO | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Lodging | High Bay Lighting | Early | Fixture | 983 | 43% | 0.04 | 13 | \$492 | 95% | 0.5 |
| PECO | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Lodging | High Bay Lighting | Early | Fixture | 911 | 38% | 0.04 | 13 | \$492 | 95% | 0.4 |
| PECO | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Lodging | High Bay Lighting | New | Fixture | 503 | 15% | 0.01 | 13 | \$25 | 95% | 1.8 |
| PECO | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Lodging | High Bay Lighting | New | Fixture | 747 | 43% | 0.03 | 13 | \$51 | 95% | 3.8 |
| PECO | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Lodging | High Bay Lighting | ROB | Fixture | 662 | 15% | 0.01 | 13 | \$25 | 95% | 2.4 |
| PECO | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Lodging | High Bay Lighting | ROB | Fixture | 983 | 43% | 0.04 | 13 | \$51 | 95% | 4.9 |
| PECO | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Lodging | High Bay Lighting | Early | lamp | 147 | 16% | 0.00 | 7 | \$7.7 | 99% | 1.3 |
| PECO | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Lodging | High Bay Lighting | New | lamp | 87 | 13% | 0.00 | 7 | \$1.6 | 91% | 2.8 |
| PECO | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Lodging | High Bay Lighting | ROB | lamp | 141 | 13% | 0.00 | 7 | \$1.6 | 91% | 4.5 |
| PECO | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Lodging | High Bay Lighting | Early | Fixture | 4,409 | 23% | 0.2 | 13 | \$613 | 5% | 1.1 |
| PECO | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Lodging | High Bay Lighting | Early | Fixture | 3,464 | 1.6% | 0.01 | 13 | \$613 | 28% | 0.1 |
| PECO | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | Early | Fixture | 8,618 | 60% | 0.8 | 13 | \$613 | 18% | 5.5 |
| PECO | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Lodging | High Bay Lighting | New | Fixture | 3,351 | 23% | 0.1 | 13 | \$96 | 5% | 5.1 |
| PECO | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Lodging | High Bay Lighting | ROB | Fixture | 4,409 | 23% | 0.2 | 13 | \$96 | 5% | 6.7 |
| PECO | Auto Off Time Switch | Lighting w/ No Controls | Lodging | High Bay Lighting | Existing | building | 374 | 24% | 0.2 | 8 | \$837 | 13% | 0.2 |
| PECO | Auto Off Time Switch | Lighting w/ No Controls | Lodging | High Bay Lighting | New | building | 374 | 6.9% | 0.07 | 8 | \$837 | 0% | 0.1 |
| PECO | Central Lighting Control System | Lighting w/ No Controls | Lodging | High Bay Lighting | Existing | building | 374 | 38% | 0.4 | 8 | \$837 | 13% | 0.4 |
| PECO | Central Lighting Control System | Lighting w/ No Controls | Lodging | High Bay Lighting | New | building | 374 | 14% | 0.1 | 8 | \$837 | 13% | 0.1 |
| PECO | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Lodging | High Bay Lighting | New | building | 374 | 10% | 0.1 | 15 | \$45,527 | 32% | 0.0 |
| PECO | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Lodging | High Bay Lighting | New | building | 374 | 15% | 0.2 | 15 | \$113,817 | 32% | 0.0 |
| PECO | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Lodging | High Bay Lighting | New | building | 374 | 30% | 0.3 | 15 | \$163,138 | 32% | 0.0 |
| PECO | Indoor Daylight Sensors | Lighting w/ No Controls | Lodging | High Bay Lighting | Existing | building | 374 | 28% | 0.3 | 8 | \$4,117 | 13% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---|--|---------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Indoor Daylight Sensors | Lighting w/ No Controls | Lodging | High Bay Lighting | New | building | 374 | 4.1% | 0.04 | 8 | \$4,117 | 0% | 0.0 |
| PECO | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Lodging | High Bay Lighting | Early | Fixture | 4,409 | 92% | 0.6 | 13 | \$1,916 | 95% | 1.4 |
| PECO | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | Early | Fixture | 8,618 | 96% | 1.2 | 13 | \$1,916 | 95% | 2.8 |
| PECO | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Lodging | High Bay Lighting | New | Fixture | 3,351 | 92% | 0.5 | 13 | \$1,468 | 95% | 1.4 |
| PECO | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | New | Fixture | 6,550 | 96% | 0.9 | 13 | \$1,149 | 95% | 3.5 |
| PECO | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Lodging | High Bay Lighting | ROB | Fixture | 4,409 | 92% | 0.6 | 13 | \$1,468 | 95% | 1.8 |
| PECO | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | ROB | Fixture | 8,618 | 96% | 1.2 | 13 | \$1,149 | 95% | 4.6 |
| PECO | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Lodging | High Bay Lighting | Early | Fixture | 1,463 | 67% | 0.1 | 13 | \$960 | 95% | 0.7 |
| PECO | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Lodging | High Bay Lighting | Early | Fixture | 4,309 | 89% | 0.6 | 13 | \$960 | 95% | 2.6 |
| PECO | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Lodging | High Bay Lighting | Early | Fixture | 1,183 | 59% | 0.1 | 13 | \$960 | 95% | 0.5 |
| PECO | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Lodging | High Bay Lighting | New | Fixture | 1,112 | 67% | 0.1 | 13 | \$480 | 95% | 1.0 |
| PECO | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Lodging | High Bay Lighting | New | Fixture | 3,275 | 89% | 0.4 | 13 | \$491 | 95% | 3.8 |
| PECO | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Lodging | High Bay Lighting | New | Fixture | 899 | 59% | 0.08 | 13 | \$406 | 95% | 0.8 |
| PECO | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Lodging | High Bay Lighting | ROB | Fixture | 1,463 | 67% | 0.1 | 13 | \$480 | 95% | 1.3 |
| PECO | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Lodging | High Bay Lighting | ROB | Fixture | 4,309 | 89% | 0.6 | 13 | \$491 | 95% | 5.0 |
| PECO | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Lodging | High Bay Lighting | ROB | Fixture | 1,183 | 59% | 0.1 | 13 | \$406 | 95% | 1.1 |
| PECO | Occupancy Sensor | Lighting w/ No Controls | Lodging | High Bay Lighting | Existing | building | 374 | 24% | 0.2 | 8 | \$1,260 | 12% | 0.2 |
| PECO | Occupancy Sensor | Lighting w/ No Controls | Lodging | High Bay Lighting | New | building | 374 | 6.9% | 0.07 | 8 | \$1,260 | 0% | 0.0 |
| PECO | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Lodging | High Bay Lighting | Existing | building | 374 | 28% | 0.3 | 8 | \$4,117 | 12% | 0.1 |
| PECO | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Lodging | High Bay Lighting | New | building | 374 | 4.1% | 0.04 | 8 | \$4,117 | 0% | 0.0 |
| PECO | Time Clock Control | Lighting w/ No Controls | Lodging | High Bay Lighting | Existing | building | 374 | 28% | 0.3 | 8 | \$837 | 13% | 0.3 |
| PECO | Time Clock Control | Lighting w/ No Controls | Lodging | High Bay Lighting | New | building | 374 | 4.0% | 0.04 | 8 | \$837 | 0% | 0.0 |
| PECO | Auto Off Time Switch | Lighting w/ No Controls | Lodging | Lin. Fluor. Lighting | Existing | building | 24,904 | 24% | 0.2 | 8 | \$837 | 13% | 2.6 |
| PECO | Auto Off Time Switch | Lighting w/ No Controls | Lodging | Lin. Fluor. Lighting | New | building | 24,904 | 7.0% | 0.07 | 8 | \$837 | 0% | 0.7 |
| PECO | Central Lighting Control System | Lighting w/ No Controls | Lodging | Lin. Fluor. Lighting | Existing | building | 24,904 | 38% | 0.4 | 8 | \$837 | 12% | 4.1 |
| PECO | Central Lighting Control System | Lighting w/ No Controls | Lodging | Lin. Fluor. Lighting | New | building | 24,904 | 14% | 0.1 | 8 | \$837 | 12% | 1.5 |
| PECO | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Lodging | Lin. Fluor. Lighting | New | building | 24,904 | 10% | 0.1 | 15 | \$45,527 | 32% | 0.0 |
| PECO | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Lodging | Lin. Fluor. Lighting | New | building | 24,904 | 15% | 0.2 | 15 | \$113,817 | 32% | 0.0 |
| PECO | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Lodging | Lin. Fluor. Lighting | New | building | 24,904 | 30% | 0.3 | 15 | \$163,138 | 32% | 0.0 |
| PECO | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Lodging | Lin. Fluor. Lighting | Early | Lamp | 295 | 38% | 0.02 | 7 | \$7.3 | 94% | 6.1 |
| PECO | Indoor Daylight Sensors | Lighting w/ No Controls | Lodging | Lin. Fluor. Lighting | Existing | building | 24,904 | 28% | 0.3 | 8 | \$4,117 | 13% | 0.6 |
| PECO | Indoor Daylight Sensors | Lighting w/ No Controls | Lodging | Lin. Fluor. Lighting | New | building | 24,904 | 4.1% | 0.04 | 8 | \$4,117 | 0% | 0.1 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | Early | Lamp | 88 | 19% | 0.00 | 14 | \$35 | 94% | 0.3 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 40W T12 Lamp, Magnetic Ballast | Lodging | Lin. Fluor. Lighting | Early | Lamp | 194 | 63% | 0.02 | 14 | \$35 | 94% | 2.4 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | Early | Lamp | 109 | 34% | 0.01 | 14 | \$35 | 94% | 0.7 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | Early | Lamp | 106 | 32% | 0.01 | 14 | \$35 | 94% | 0.7 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | New | Lamp | 67 | 19% | 0.00 | 14 | \$28 | 94% | 0.3 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | New | Lamp | 80 | 32% | 0.00 | 14 | \$29 | 94% | 0.6 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | New | Lamp | 83 | 34% | 0.00 | 14 | \$22 | 94% | 0.9 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | New | Lamp | 80 | 32% | 0.00 | 14 | \$29 | 94% | 0.6 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | ROB | Lamp | 88 | 19% | 0.00 | 14 | \$28 | 94% | 0.4 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | ROB | Lamp | 106 | 32% | 0.01 | 14 | \$29 | 94% | 0.8 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | ROB | Lamp | 109 | 34% | 0.01 | 14 | \$22 | 94% | 1.2 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | ROB | Lamp | 106 | 32% | 0.01 | 14 | \$29 | 94% | 0.8 |
| PECO | Occupancy Sensor | Lighting w/ No Controls | Lodging | Lin. Fluor. Lighting | Existing | building | 24,904 | 24% | 0.2 | 8 | \$1,260 | 13% | 1.7 |
| PECO | Occupancy Sensor | Lighting w/ No Controls | Lodging | Lin. Fluor. Lighting | New | building | 24,904 | 7.0% | 0.07 | 8 | \$1,260 | 0% | 0.5 |
| PECO | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Lodging | Lin. Fluor. Lighting | Existing | building | 24,904 | 28% | 0.3 | 8 | \$4,117 | 12% | 0.6 |
| PECO | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Lodging | Lin. Fluor. Lighting | New | building | 24,904 | 4.1% | 0.04 | 8 | \$4,117 | 0% | 0.1 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 40W T12 w/ Magnetic Ballast | Lodging | Lin. Fluor. Lighting | Early | Lamp | 295 | 54% | 0.03 | 7 | \$9.1 | 94% | 7.0 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | Early | Lamp | 189 | 28% | 0.01 | 7 | \$9.1 | 24% | 2.3 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | Early | Lamp | 183 | 26% | 0.01 | 7 | \$9.1 | 94% | 2.1 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | New | Lamp | 139 | 26% | 0.01 | 7 | \$2.5 | 94% | 5.6 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | New | Lamp | 139 | 26% | 0.01 | 7 | \$2.5 | 94% | 5.6 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | New | Lamp | 143 | 28% | 0.01 | 7 | \$2.5 | 24% | 6.4 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | New | Lamp | 139 | 26% | 0.01 | 7 | \$2.5 | 94% | 5.6 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | ROB | Lamp | 183 | 26% | 0.01 | 7 | \$2.5 | 94% | 7.4 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | ROB | Lamp | 183 | 26% | 0.01 | 7 | \$2.5 | 94% | 7.4 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | ROB | Lamp | 189 | 28% | 0.01 | 7 | \$2.5 | 24% | 8.4 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | ROB | Lamp | 183 | 26% | 0.01 | 7 | \$2.5 | 94% | 7.4 |
| PECO | T8 Lamp (any length) Electronic Ballast | Standard T12 lamp (any length) | Lodging | Lin. Fluor. Lighting | Early | Lamp | 347 | 42% | 0.02 | 7 | \$14 | 94% | 4.2 |
| PECO | Time Clock Control | Lighting w/ No Controls | Lodging | Lin. Fluor. Lighting | Existing | building | 24,904 | 28% | 0.3 | 8 | \$837 | 14% | 3.0 |
| PECO | Time Clock Control | Lighting w/ No Controls | Lodging | Lin. Fluor. Lighting | New | building | 24,904 | 4.1% | 0.04 | 8 | \$837 | 0% | 0.4 |
| PECO | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Lodging | Motors | Early | motor | 4,461 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---|--|---------|---------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Variable Speed Drive Control, 5HP | Existing Motors w/out VFD Drive | Lodging | Motors | Early | motor | 21,129 | 70% | 1.6 | 15 | \$2,243 | 86% | 4.4 |
| PECO | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Lodging | Motors | New | motor | 20,656 | 72% | 1.6 | 15 | \$2,243 | 86% | 4.4 |
| PECO | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Lodging | Motors | ROB | motor | 20,656 | 72% | 1.6 | 15 | \$2,243 | 86% | 4.4 |
| PECO | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Lodging | Motors | Early | motor | 24,832 | 4.5% | 0.1 | 15 | \$268 | 40% | 2.9 |
| PECO | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Lodging | Motors | New | motor | 24,832 | 4.5% | 0.1 | 15 | \$268 | 40% | 2.9 |
| PECO | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Lodging | Motors | ROB | motor | 24,832 | 4.5% | 0.1 | 15 | \$268 | 40% | 2.9 |
| PECO | VFD on Chilled Water Pump | Motor w/out VFD Drive | Lodging | Motors | Early | motor | 56,658 | 54% | 2.7 | 15 | \$2,903 | 86% | 6.8 |
| PECO | VFD on Chilled Water Pump | Motor w/out VFD Drive | Lodging | Motors | New | motor | 55,598 | 55% | 2.7 | 15 | \$2,843 | 86% | 6.9 |
| PECO | VFD on Chilled Water Pump | Motor w/out VFD Drive | Lodging | Motors | ROB | motor | 55,598 | 55% | 2.7 | 15 | \$2,843 | 86% | 6.9 |
| PECO | VFD on Condenser Water Pump | Motor w/out VFD Drive | Lodging | Motors | Early | motor | 54,129 | 32% | 3.2 | 15 | \$2,903 | 86% | 4.5 |
| PECO | VFD on Condenser Water Pump | Motor w/out VFD Drive | Lodging | Motors | New | motor | 53,116 | 33% | 3.1 | 15 | \$2,843 | 86% | 4.5 |
| PECO | VFD on Condenser Water Pump | Motor w/out VFD Drive | Lodging | Motors | ROB | motor | 53,116 | 33% | 3.1 | 15 | \$2,843 | 86% | 4.5 |
| PECO | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Lodging | Motors | Early | motor | 55,886 | 56% | 0.00 | 15 | \$2,903 | 86% | 5.9 |
| PECO | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Lodging | Motors | New | motor | 54,840 | 57% | 0.00 | 15 | \$2,843 | 86% | 6.0 |
| PECO | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Lodging | Motors | ROB | motor | 54,840 | 57% | 0.00 | 15 | \$2,843 | 86% | 6.0 |
| PECO | VFD on HVAC Fan | Motor w/out VFD | Lodging | Motors | Early | motor | 56,640 | 70% | 3.4 | 15 | \$2,903 | 86% | 8.8 |
| PECO | VFD on HVAC Fan | Motor w/out VFD | Lodging | Motors | New | motor | 55,580 | 72% | 3.3 | 15 | \$2,843 | 86% | 8.9 |
| PECO | VFD on HVAC Fan | Motor w/out VFD | Lodging | Motors | ROB | motor | 55,580 | 72% | 3.3 | 15 | \$2,843 | 86% | 8.9 |
| PECO | Elevators | Std. Eff Elevator | Lodging | Other | ROB | measure | 89,016 | 18% | 1.1 | 15 | \$3,382 | 81% | 3.0 |
| PECO | Variable Speed Drives on Process Equipment | Constant speed control | Lodging | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 11.9 |
| PECO | Variable Speed Drives on Process Equipment | Constant speed control | Lodging | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 11.9 |
| PECO | Auto Off Time Switch | Lighting w/ No Controls | Lodging | Other Int. Lighting | Existing | building | 10,009 | 24% | 0.2 | 8 | \$837 | 13% | 1.2 |
| PECO | Auto Off Time Switch | Lighting w/ No Controls | Lodging | Other Int. Lighting | New | building | 10,009 | 7.0% | 0.07 | 8 | \$837 | 0% | 0.3 |
| PECO | Central Lighting Control System | Lighting w/ No Controls | Lodging | Other Int. Lighting | Existing | building | 10,009 | 38% | 0.4 | 8 | \$837 | 13% | 1.8 |
| PECO | Central Lighting Control System | Lighting w/ No Controls | Lodging | Other Int. Lighting | New | building | 10,009 | 14% | 0.1 | 8 | \$837 | 13% | 0.7 |
| PECO | Cold Cathode Screw-In Bulb | 40W Incandescent Bulb | Lodging | Other Int. Lighting | Early | lamp | 204 | 87% | 0.03 | 7 | \$30 | 14% | 2.3 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Lodging | Other Int. Lighting | Early | lamp | 146 | 81% | 0.02 | 7 | \$30 | 11% | 1.5 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Lodging | Other Int. Lighting | New | lamp | 111 | 81% | 0.01 | 7 | \$21 | 14% | 1.6 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Lodging | Other Int. Lighting | New | lamp | 111 | 81% | 0.01 | 7 | \$23 | 14% | 1.5 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Lodging | Other Int. Lighting | New | lamp | 111 | 81% | 0.01 | 7 | \$22 | 11% | 1.6 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Lodging | Other Int. Lighting | ROB | lamp | 146 | 81% | 0.02 | 7 | \$21 | 14% | 2.2 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Lodging | Other Int. Lighting | ROB | lamp | 146 | 81% | 0.02 | 7 | \$23 | 14% | 2.0 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Lodging | Other Int. Lighting | ROB | lamp | 146 | 81% | 0.02 | 7 | \$22 | 11% | 2.1 |
| PECO | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Lodging | Other Int. Lighting | Early | lamp | 204 | 75% | 0.02 | 3 | \$73 | 18% | 0.4 |
| PECO | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Lodging | Other Int. Lighting | New | fixture | 222 | 65% | 0.02 | 13 | \$29 | 21% | 3.3 |
| PECO | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Lodging | Other Int. Lighting | New | lamp | 111 | 65% | 0.01 | 3 | \$29 | 21% | 0.4 |
| PECO | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Lodging | Other Int. Lighting | ROB | fixture | 293 | 65% | 0.03 | 13 | \$29 | 18% | 4.3 |
| PECO | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Lodging | Other Int. Lighting | ROB | lamp | 146 | 65% | 0.01 | 3 | \$29 | 18% | 0.6 |
| PECO | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Lodging | Other Int. Lighting | Early | lamp | 204 | 75% | 0.02 | 3 | \$3.2 | 20% | 8.4 |
| PECO | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Lodging | Other Int. Lighting | New | lamp | 111 | 65% | 0.01 | 3 | \$1.8 | 20% | 7.1 |
| PECO | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Lodging | Other Int. Lighting | ROB | lamp | 146 | 65% | 0.01 | 3 | \$1.8 | 20% | 9.4 |
| PECO | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Lodging | Other Int. Lighting | ROB | lamp | 146 | 65% | 0.01 | 3 | \$1.8 | 20% | 9.4 |
| PECO | Exit Sign Retrofit: CFL replacing Incandescent | One 23W Single Sided Incandescent Exit Sign | Lodging | Other Int. Lighting | Early | exit sign | 130 | 42% | 0.01 | 15 | \$48 | 22% | 0.8 |
| PECO | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Lodging | Other Int. Lighting | New | building | 10,009 | 10% | 0.1 | 15 | \$45,527 | 32% | 0.0 |
| PECO | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Lodging | Other Int. Lighting | New | building | 10,009 | 15% | 0.2 | 15 | \$113,817 | 32% | 0.0 |
| PECO | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Lodging | Other Int. Lighting | New | building | 10,009 | 30% | 0.3 | 15 | \$163,138 | 32% | 0.0 |
| PECO | Indoor Daylight Sensors | Lighting w/ No Controls | Lodging | Other Int. Lighting | Existing | building | 10,009 | 28% | 0.3 | 8 | \$4,117 | 13% | 0.3 |
| PECO | Indoor Daylight Sensors | Lighting w/ No Controls | Lodging | Other Int. Lighting | New | building | 10,009 | 4.1% | 0.04 | 8 | \$4,117 | 0% | 0.0 |
| PECO | LED Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Lodging | Other Int. Lighting | Early | sign | 153 | 87% | 0.02 | 15 | \$48 | 16% | 1.9 |
| PECO | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Lodging | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 2.1 |
| PECO | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Lodging | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 2.1 |
| PECO | LED Task Lighting/Screw-In | 1 15W CFL bulb | Lodging | Other Int. Lighting | Early | lamp | 42 | 33% | 0.00 | 9 | \$9.6 | 20% | 0.7 |
| PECO | LED Task Lighting/Screw-In | 1 60W Incandescent Bulb | Lodging | Other Int. Lighting | Early | lamp | 167 | 83% | 0.02 | 9 | \$9.6 | 20% | 7.1 |
| PECO | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Lodging | Other Int. Lighting | New | lamp | 91 | 77% | 0.01 | 9 | \$7.9 | 20% | 4.3 |
| PECO | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Lodging | Other Int. Lighting | New | lamp | 91 | 77% | 0.01 | 9 | \$7.9 | 20% | 4.3 |
| PECO | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Lodging | Other Int. Lighting | ROB | lamp | 120 | 77% | 0.01 | 9 | \$7.9 | 20% | 5.6 |
| PECO | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Lodging | Other Int. Lighting | ROB | lamp | 120 | 77% | 0.01 | 9 | \$7.9 | 20% | 5.6 |
| PECO | Occupancy Sensor | Lighting w/ No Controls | Lodging | Other Int. Lighting | Existing | building | 10,009 | 24% | 0.2 | 8 | \$1,260 | 12% | 0.8 |
| PECO | Occupancy Sensor | Lighting w/ No Controls | Lodging | Other Int. Lighting | New | building | 10,009 | 7.0% | 0.07 | 8 | \$1,260 | 0% | 0.2 |
| PECO | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Lodging | Other Int. Lighting | Existing | building | 10,009 | 28% | 0.3 | 8 | \$4,117 | 12% | 0.3 |
| PECO | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Lodging | Other Int. Lighting | New | building | 10,009 | 4.1% | 0.04 | 8 | \$4,117 | 0% | 0.0 |
| PECO | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Lodging | Other Int. Lighting | Early | exit sign | 130 | 100% | 0.02 | 15 | \$173 | 26% | 0.5 |
| PECO | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Lodging | Other Int. Lighting | New | exit sign | 75 | 100% | 0.01 | 15 | \$148 | 31% | 0.4 |
| PECO | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Lodging | Other Int. Lighting | ROB | exit sign | 75 | 100% | 0.01 | 15 | \$148 | 26% | 0.4 |
| PECO | Time Clock Control | Lighting w/ No Controls | Lodging | Other Int. Lighting | Existing | building | 10,009 | 28% | 0.3 | 8 | \$837 | 13% | 1.3 |
| PECO | Time Clock Control | Lighting w/ No Controls | Lodging | Other Int. Lighting | New | building | 10,009 | 4.1% | 0.04 | 8 | \$837 | 0% | 0.2 |
| PECO | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Lodging | Plug Load | Existing | building | 2,913 | 46% | 0.5 | 5 | \$189 | 4% | 2.6 |
| PECO | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Lodging | Plug Load | New | building | 1,422 | 46% | 0.5 | 5 | \$189 | 4% | 1.8 |
| PECO | Data Center - Server/Storage Consolidation | No Consolidation | Lodging | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PECO | Data Center - Server/Storage Consolidation | No Consolidation | Lodging | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---|---|---------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Data Center - Server/Storage Virtualization | No Virtualization | Lodging | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PECO | Data Center - Server/Storage Virtualization | No Virtualization | Lodging | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PECO | Energy Star - Scanners | Std Scanner | Lodging | Plug Load | New | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| PECO | Energy Star - Scanners | Std Scanner | Lodging | Plug Load | ROB | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| PECO | Energy Star Battery Charging System (for small cordless products) | Std. Battery Charging System | Lodging | Plug Load | ROB | measure | 593 | 2.3% | 0.2 | 5 | \$65 | 4% | 1.4 |
| PECO | Energy Star Dishwasher | Existing Dishwasher units | Lodging | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,580 | 23% | 1.1 |
| PECO | Energy Star Dishwasher | Standard Dishwasher unit | Lodging | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 23% | 3.6 |
| PECO | Energy Star Dishwasher | Standard Dishwasher unit | Lodging | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 23% | 3.6 |
| PECO | Energy Star External Power Adapter | Std. Power Adapter | Lodging | Plug Load | New | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| PECO | Energy Star External Power Adapter | Std. Power Adapter | Lodging | Plug Load | ROB | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| PECO | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Lodging | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 17% | 0.2 |
| PECO | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Lodging | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.3 |
| PECO | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Lodging | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.3 |
| PECO | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Lodging | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 64% | 0.8 |
| PECO | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Lodging | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 64% | 1.8 |
| PECO | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Lodging | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 64% | 1.8 |
| PECO | ENERGY STAR® Copiers | 10% Less Efficient Copier | Lodging | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 18% | 0.0 |
| PECO | ENERGY STAR® Copiers | One Conventional Copier | Lodging | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| PECO | ENERGY STAR® Copiers | One Conventional Copier | Lodging | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| PECO | ENERGY STAR® desktop | Standard computer | Lodging | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 69% | 0.1 |
| PECO | ENERGY STAR® desktop | Standard computer | Lodging | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.4 |
| PECO | ENERGY STAR® desktop | Standard computer | Lodging | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.4 |
| PECO | ENERGY STAR® Fax | 10% Less Efficient Fax | Lodging | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 15% | 0.0 |
| PECO | ENERGY STAR® Fax | One Conventional Fax | Lodging | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| PECO | ENERGY STAR® Fax | One Conventional Fax | Lodging | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| PECO | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Lodging | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 70% | 0.0 |
| PECO | ENERGY STAR® Monitors | One Conventional Monitor | Lodging | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| PECO | ENERGY STAR® Monitors | One Conventional Monitor | Lodging | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| PECO | ENERGY STAR® Printers | 10% Less Efficient Printer | Lodging | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 44% | 0.0 |
| PECO | ENERGY STAR® Printers | One Conventional Printer | Lodging | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.4 |
| PECO | ENERGY STAR® Printers | One Conventional Printer | Lodging | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.4 |
| PECO | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Lodging | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 43% | 0.1 |
| PECO | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Lodging | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.8 |
| PECO | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Lodging | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.8 |
| PECO | ENERGY STAR® Televisions | 10% Less Efficient Television | Lodging | Plug Load | Early | Unit | 280 | 38% | 0.01 | 6 | \$672 | 40% | 0.0 |
| PECO | ENERGY STAR® Televisions | One Conventional Television | Lodging | Plug Load | New | Unit | 254 | 32% | 0.01 | 6 | \$206 | 40% | 0.1 |
| PECO | ENERGY STAR® Televisions | One Conventional Television | Lodging | Plug Load | ROB | Unit | 254 | 32% | 0.01 | 6 | \$206 | 40% | 0.1 |
| PECO | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Lodging | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 24% | 0.3 |
| PECO | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Lodging | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.7 |
| PECO | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Lodging | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.7 |
| PECO | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Lodging | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 73% | 0.3 |
| PECO | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Lodging | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 73% | 0.3 |
| PECO | Network PC Power Management | No PC Power Management | Lodging | Plug Load | Existing | building | 425 | 33% | 0.3 | 5 | \$12 | 38% | 25.5 |
| PECO | Network PC Power Management | No PC Power Management | Lodging | Plug Load | New | building | 425 | 33% | 0.3 | 5 | \$12 | 38% | 25.5 |
| PECO | Smart Strip Plug Outlets | Standard plug strip/outlet | Lodging | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.4 |
| PECO | Smart Strip Plug Outlets | Standard plug strip/outlet | Lodging | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.4 |
| PECO | Smart Strip Plug Outlets | Standard plug strip/outlet | Lodging | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PECO | Smart Strip Plug Outlets | Standard plug strip/outlet | Lodging | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PECO | Smart Strip Plug Outlets | Standard plug strip/outlet | Lodging | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PECO | Smart Strip Plug Outlets | Standard plug strip/outlet | Lodging | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PECO | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Lodging | Plug Load | Existing | building | 2,913 | 46% | 0.5 | 5 | \$180 | 3% | 2.7 |
| PECO | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Lodging | Plug Load | New | building | 1,422 | 46% | 0.5 | 5 | \$180 | 3% | 1.9 |
| PECO | Air curtain technology | Strip plastic curtain | Lodging | Refrigeration | New | building | 7,184 | 6.8% | 0.07 | 8 | \$1,049 | 35% | 0.2 |
| PECO | Air curtain technology | Strip plastic curtain | Lodging | Refrigeration | New | building | 7,238 | 6.8% | 0.07 | 8 | \$1,049 | 35% | 0.2 |
| PECO | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Lodging | Refrigeration | Existing | building | 599 | 2.3% | 0.02 | 12 | \$70 | 11% | 0.4 |
| PECO | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Lodging | Refrigeration | New | building | 599 | 2.3% | 0.02 | 12 | \$70 | 11% | 0.4 |
| PECO | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Lodging | Refrigeration | Existing | building | 599 | 0.9% | 0.01 | 12 | \$70 | 11% | 0.2 |
| PECO | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Lodging | Refrigeration | New | building | 599 | 0.9% | 0.01 | 12 | \$70 | 11% | 0.2 |
| PECO | Auto Closer on Refrigerator Door | Door w/out Autocloser | Lodging | Refrigeration | Existing | building | 7,184 | 18% | 0.2 | 8 | \$803 | 40% | 0.7 |
| PECO | Auto Closer on Refrigerator Door | Door w/out Autocloser | Lodging | Refrigeration | Existing | building | 7,238 | 9.1% | 0.09 | 8 | \$714 | 40% | 0.4 |
| PECO | Auto Closer on Refrigerator Door | Door w/out Autocloser | Lodging | Refrigeration | New | building | 7,184 | 18% | 0.2 | 8 | \$803 | 40% | 0.7 |
| PECO | Auto Closer on Refrigerator Door | Door w/out Autocloser | Lodging | Refrigeration | New | building | 7,238 | 9.1% | 0.09 | 8 | \$714 | 40% | 0.4 |
| PECO | Demand Hot Gas Defrost | Base Refrigeration System | Lodging | Refrigeration | Existing | building | 599 | 3.0% | 0.03 | 10 | \$1,298 | 0% | 0.0 |
| PECO | Demand Hot Gas Defrost | Base Refrigeration System | Lodging | Refrigeration | New | building | 599 | 3.0% | 0.03 | 10 | \$1,298 | 0% | 0.0 |
| PECO | Door Gasket- Freezer | Door w/out Gasket | Lodging | Refrigeration | Existing | building | 7,184 | 10% | 0.1 | 4 | \$82 | 29% | 1.9 |
| PECO | Door Gasket- Freezer | Door w/out Gasket | Lodging | Refrigeration | New | building | 7,184 | 9.3% | 0.09 | 4 | \$82 | 29% | 1.7 |
| PECO | Door Gasket- Refrigerator | Door w/out Gasket | Lodging | Refrigeration | Existing | building | 7,238 | 2.9% | 0.03 | 4 | \$99 | 45% | 0.5 |
| PECO | Door Gasket- Refrigerator | Door w/out Gasket | Lodging | Refrigeration | New | building | 7,238 | 2.9% | 0.03 | 4 | \$99 | 45% | 0.5 |
| PECO | Economizer for Walk-in Coolers | No Economizer | Lodging | Refrigeration | Early | measure | 16,150 | 6.6% | 0.1 | 10 | \$188 | 72% | 2.8 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---|--|---------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Economizer for Walk-in Coolers | No Economizer | Lodging | Refrigeration | Early | measure | 16,150 | 6.6% | 0.1 | 10 | \$188 | 72% | 2.8 |
| PECO | Economizer for Walk-in Coolers | No Economizer | Lodging | Refrigeration | Early | measure | 16,150 | 6.6% | 0.1 | 10 | \$188 | 72% | 2.8 |
| PECO | Economizer for Walk-in Coolers | No Economizer | Lodging | Refrigeration | New | measure | 16,150 | 6.6% | 0.1 | 10 | \$22 | 72% | 23.8 |
| PECO | Economizer for Walk-in Coolers | No Economizer | Lodging | Refrigeration | New | measure | 16,150 | 6.6% | 0.1 | 10 | \$22 | 72% | 23.9 |
| PECO | Economizer for Walk-in Coolers | No Economizer | Lodging | Refrigeration | ROB | measure | 16,150 | 6.6% | 0.1 | 10 | \$22 | 72% | 23.9 |
| PECO | Economizer for Walk-in Coolers | No Economizer | Lodging | Refrigeration | ROB | measure | 16,150 | 6.6% | 0.1 | 10 | \$22 | 72% | 23.9 |
| PECO | Economizer for Walk-in Coolers | No Economizer | Lodging | Refrigeration | ROB | measure | 16,150 | 6.6% | 0.1 | 10 | \$22 | 72% | 23.9 |
| PECO | eCube | Refrigeration unit w/out eCube | Lodging | Refrigeration | Existing | building | 7,238 | 15% | 0.2 | 15 | \$601 | 57% | 1.2 |
| PECO | eCube | Refrigeration unit w/out eCube | Lodging | Refrigeration | New | building | 7,238 | 15% | 0.2 | 15 | \$601 | 57% | 1.2 |
| PECO | Efficient compressor motor | Base Refrigeration System - Grocery | Lodging | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| PECO | Efficient compressor motor | Base Refrigeration System - Grocery | Lodging | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| PECO | Efficient compressor motor | Base Refrigeration System - Grocery | Lodging | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| PECO | Efficient compressor motor | Base Refrigeration System - Grocery | Lodging | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| PECO | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Lodging | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.6 |
| PECO | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Lodging | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| PECO | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Lodging | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| PECO | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Lodging | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.3 |
| PECO | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Lodging | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.8 |
| PECO | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Lodging | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.8 |
| PECO | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Lodging | Refrigeration | Existing | building | 7,238 | 1.1% | 0.01 | 10 | \$369 | 77% | 0.1 |
| PECO | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Lodging | Refrigeration | New | building | 7,238 | 1.1% | 0.01 | 10 | \$369 | 77% | 0.1 |
| PECO | Floating head pressure controller | System w/out FHPC | Lodging | Refrigeration | Existing | building | 7,184 | 3.2% | 0.02 | 15 | \$8,682 | 41% | 0.0 |
| PECO | Floating head pressure controller | System w/out FHPC | Lodging | Refrigeration | Existing | building | 599 | 16% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| PECO | Floating head pressure controller | System w/out FHPC | Lodging | Refrigeration | Existing | building | 7,238 | 1.1% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| PECO | Floating head pressure controller | System w/out FHPC | Lodging | Refrigeration | New | building | 7,184 | 3.2% | 0.02 | 15 | \$8,682 | 41% | 0.0 |
| PECO | Floating head pressure controller | System w/out FHPC | Lodging | Refrigeration | New | building | 599 | 16% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| PECO | Floating head pressure controller | System w/out FHPC | Lodging | Refrigeration | New | building | 7,238 | 1.1% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| PECO | High Efficiency Commercial Freezer | Std. Commercial Freezer | Lodging | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 84% | 0.3 |
| PECO | High Efficiency Commercial Freezer | Std. Commercial Freezer | Lodging | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 84% | 4.2 |
| PECO | High Efficiency Commercial Freezer | Std. Commercial Freezer | Lodging | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 84% | 4.2 |
| PECO | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Lodging | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 21% | 0.1 |
| PECO | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Lodging | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 21% | 0.9 |
| PECO | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Lodging | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 21% | 0.9 |
| PECO | High Efficiency Ice Maker | Existing Standard Efficiency Ice Maker in Pennsylvania | Lodging | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 69% | 0.2 |
| PECO | High Efficiency Ice Maker | Standard code minimum Ice Maker | Lodging | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| PECO | High Efficiency Ice Maker | Standard code minimum Ice Maker | Lodging | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 69% | 0.2 |
| PECO | High Efficiency Ice Making Head | Standard Ice Making Head | Lodging | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 4.1 |
| PECO | High Efficiency Ice Making Head | Standard Ice Making Head | Lodging | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 4.1 |
| PECO | High R-Value Glass Doors | Base Refrigeration System - Grocery | Lodging | Refrigeration | Existing | building | 599 | 0.7% | 0.01 | 10 | \$23 | 0% | 0.3 |
| PECO | High R-Value Glass Doors | Base Refrigeration System - Grocery | Lodging | Refrigeration | New | building | 599 | 0.7% | 0.01 | 10 | \$23 | 0% | 0.3 |
| PECO | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Lodging | Refrigeration | Early | Fixture | 373 | 56% | 0.02 | 8 | \$448 | 86% | 0.2 |
| PECO | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Lodging | Refrigeration | New | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 86% | 0.3 |
| PECO | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Lodging | Refrigeration | ROB | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 86% | 0.3 |
| PECO | No-heat glass doors | Standard low-temp reach-in | Lodging | Refrigeration | Existing | building | 599 | 20% | 0.2 | 10 | \$2,099 | 8% | 0.1 |
| PECO | No-heat glass doors | Standard low-temp reach-in | Lodging | Refrigeration | New | building | 599 | 20% | 0.2 | 10 | \$2,099 | 8% | 0.1 |
| PECO | Quick acting freezer doors | Std. Freezer Doors | Lodging | Refrigeration | Existing | building | 7,184 | 13% | 0.1 | 10 | \$1,235 | 56% | 0.4 |
| PECO | Quick acting freezer doors | Std. Freezer Doors | Lodging | Refrigeration | New | building | 7,184 | 13% | 0.1 | 10 | \$1,235 | 56% | 0.4 |
| PECO | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Lodging | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 29% | 0.4 |
| PECO | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Lodging | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 29% | 1.6 |
| PECO | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Lodging | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 29% | 1.6 |
| PECO | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 29% | 1.7 |
| PECO | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 29% | 3.0 |
| PECO | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 29% | 3.0 |
| PECO | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 29% | 1.7 |
| PECO | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 29% | 4.0 |
| PECO | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 29% | 4.0 |
| PECO | Refrigeration Commissioning | Non-commissioned refrigeration system | Lodging | Refrigeration | Existing | building | 15,566 | 9.5% | 0.10 | 3 | \$4,029 | 85% | 0.1 |
| PECO | Refrigeration Commissioning | Non-commissioned refrigeration system | Lodging | Refrigeration | New | building | 15,566 | 9.5% | 0.10 | 3 | \$4,029 | 85% | 0.1 |
| PECO | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Lodging | Refrigeration | Existing | building | 7,184 | 24% | 0.2 | 4 | \$100 | 22% | 3.6 |
| PECO | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Lodging | Refrigeration | Existing | building | 7,238 | 4.1% | 0.04 | 4 | \$120 | 22% | 0.5 |
| PECO | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Lodging | Refrigeration | New | building | 7,184 | 24% | 0.2 | 4 | \$100 | 22% | 3.6 |
| PECO | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Lodging | Refrigeration | New | building | 7,238 | 4.1% | 0.04 | 4 | \$120 | 22% | 0.5 |
| PECO | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Lodging | Refrigeration | Existing | building | 7,184 | 4.4% | 0.04 | 11 | \$140 | 79% | 1.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---|--|---------|-----------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Lodging | Refrigeration | New | building | 7,184 | 4.4% | 0.04 | 11 | \$140 | 79% | 1.2 |
| PECO | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Lodging | Refrigeration | Existing | building | 7,238 | 3.3% | 0.03 | 11 | \$140 | 79% | 0.9 |
| PECO | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Lodging | Refrigeration | New | building | 7,238 | 3.3% | 0.03 | 11 | \$140 | 79% | 0.9 |
| PECO | Vendor Miser | No Vendor Miser | Lodging | Refrigeration | Existing | building | 545 | 12% | 0.1 | 8 | \$56 | 7% | 1.9 |
| PECO | Vertical Night Covers | Display cases w/out night covers-High Temperature | Lodging | Refrigeration | Existing | building | 599 | 0.4% | 0.00 | 5 | \$52 | 9% | 0.0 |
| PECO | Vertical Night Covers | Display cases w/out night covers-High Temperature | Lodging | Refrigeration | New | building | 599 | 0.4% | 0.00 | 5 | \$52 | 9% | 0.0 |
| PECO | VSD Controlled Compressor | Compressor w/out VSD | Lodging | Refrigeration | Early | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 73% | 0.2 |
| PECO | VSD Controlled Compressor | Compressor w/out VSD | Lodging | Refrigeration | New | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 73% | 0.2 |
| PECO | VSD Controlled Compressor | Compressor w/out VSD | Lodging | Refrigeration | ROB | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 73% | 0.2 |
| PECO | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Lodging | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$269 | 35% | 0.9 |
| PECO | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Lodging | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$269 | 35% | 0.9 |
| PECO | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Lodging | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.2 |
| PECO | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Lodging | Refrigeration | New | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 3.0 |
| PECO | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Lodging | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.2 |
| PECO | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Lodging | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 3.0 |
| PECO | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 35% | 2.4 |
| PECO | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 35% | 2.3 |
| PECO | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 5.2 |
| PECO | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.9 |
| PECO | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 5.2 |
| PECO | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.9 |
| PECO | Adding reflective roof treatment | Std color roof | Lodging | Space Heating | Existing | building | 11,138 | 7.1% | 0.07 | 6 | \$17,687 | 82% | 0.0 |
| PECO | Adding reflective roof treatment | Std color roof | Lodging | Space Heating | New | building | 11,138 | 7.1% | 0.07 | 6 | \$17,687 | 82% | 0.0 |
| PECO | Adding window shade film | No shade film | Lodging | Space Heating | Existing | building | 11,138 | 1.3% | 0.4 | 10 | \$136 | 13% | 2.6 |
| PECO | Adding window shade film | No shade film | Lodging | Space Heating | New | building | 11,138 | 1.3% | 0.4 | 10 | \$136 | 13% | 2.6 |
| PECO | Adding window shade screen | No shade screen | Lodging | Space Heating | Existing | building | 11,138 | 1.1% | 0.01 | 10 | \$52 | 13% | 1.0 |
| PECO | Adding window shade screen | No shade screen | Lodging | Space Heating | New | building | 11,138 | 1.1% | 0.01 | 10 | \$52 | 13% | 1.0 |
| PECO | Automated control system | Manual Controls | Lodging | Space Heating | Existing | building | 11,138 | 17% | 0.2 | 15 | \$12,193 | 51% | 0.1 |
| PECO | Automated control system | Manual Controls | Lodging | Space Heating | New | building | 11,138 | 17% | 0.2 | 15 | \$12,193 | 94% | 0.1 |
| PECO | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Lodging | Space Heating | Existing | building | 11,138 | 3.3% | 0.03 | 15 | \$23,552 | 71% | 0.0 |
| PECO | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Lodging | Space Heating | New | building | 11,138 | 1.1% | 0.01 | 15 | \$22,387 | 94% | 0.0 |
| PECO | Duct Insulation, Add R8 | No Insulation | Lodging | Space Heating | Existing | building | 11,138 | 1.4% | 0.04 | 15 | \$88 | 20% | 1.4 |
| PECO | Duct Insulation, Add R8 | No Insulation | Lodging | Space Heating | New | building | 11,138 | 1.4% | 0.04 | 15 | \$88 | 10% | 1.4 |
| PECO | Efficient Unit Heating System | Existing Unit Heaters in PA | Lodging | Space Heating | Early | heater | 66,608 | 23% | 0.1 | 15 | \$3,289 | 83% | 2.5 |
| PECO | Efficient Unit Heating System | Std. Unit Heater | Lodging | Space Heating | New | heater | 59,115 | 13% | 0.06 | 15 | \$1,991 | 83% | 2.1 |
| PECO | Efficient Unit Heating System | Std. Unit Heater | Lodging | Space Heating | ROB | heater | 59,115 | 13% | 0.06 | 15 | \$1,991 | 83% | 2.1 |
| PECO | Facility Commissioning | No Facility Commissioning | Lodging | Space Heating | New | building | 11,138 | 16% | 0.2 | 10 | \$2,323 | 89% | 0.3 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Lodging | Space Heating | Existing | building | 11,138 | 7.1% | 0.07 | 15 | \$49,405 | 25% | 0.0 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Lodging | Space Heating | New | building | 11,138 | 7.1% | 0.07 | 15 | \$49,405 | 35% | 0.0 |
| PECO | Hi Eff HVAC System Design | No HVAC Design | Lodging | Space Heating | New | building | 11,138 | 7.3% | 0.07 | 10 | \$66,490 | 51% | 0.0 |
| PECO | Hotel Occupancy Sensor | HVAC system w/out Occupancy Sensors | Lodging | Space Heating | Existing | building | 11,138 | 3.5% | 0.04 | 15 | \$11,644 | 89% | 0.0 |
| PECO | Hotel Occupancy Sensor | HVAC system w/out Occupancy Sensors | Lodging | Space Heating | New | building | 11,138 | 3.5% | 0.04 | 15 | \$11,644 | 94% | 0.0 |
| PECO | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Lodging | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 1.1 |
| PECO | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Lodging | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 1.1 |
| PECO | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Lodging | Space Heating | Existing | building | 11,138 | 3.5% | 0.04 | 10 | \$7,735 | 81% | 0.0 |
| PECO | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) HVAC system w/ Manual Thermostat (Code Min Eff) | Lodging | Space Heating | New | building | 11,138 | 3.5% | 0.04 | 10 | \$7,735 | 81% | 0.0 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Lodging | Space Heating | Existing | building | 11,138 | 3.6% | 0.04 | 11 | \$286 | 49% | 0.7 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Lodging | Space Heating | New | building | 11,138 | 3.1% | 0.03 | 11 | \$146 | 49% | 1.2 |
| PECO | Re-Commissioning (Existing Construction) | No Re-Commissioning | Lodging | Space Heating | Existing | building | 11,138 | 16% | 0.2 | 5 | \$12,530 | 86% | 0.0 |
| PECO | VFD on Cooling Tower Fan | Motor w/out VFD | Lodging | Space Heating | Early | motor | 56,640 | 70% | 3.4 | 15 | \$2,843 | 88% | 8.6 |
| PECO | VFD on Cooling Tower Fan | Motor w/out VFD | Lodging | Space Heating | New | motor | 55,580 | 72% | 3.3 | 15 | \$2,843 | 88% | 8.5 |
| PECO | VFD on Cooling Tower Fan | Motor w/out VFD | Lodging | Space Heating | ROB | motor | 55,580 | 72% | 3.3 | 15 | \$2,843 | 88% | 8.5 |
| PECO | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Lodging | Space Heating | Existing | building | 11,138 | 8.0% | 0.08 | 15 | \$6,019 | 26% | 0.1 |
| PECO | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Lodging | Space Heating | New | building | 11,138 | 0.2% | 0.00 | 15 | \$4,617 | 94% | 0.0 |
| PECO | Green LED Traffic Light | Green Incandescent Traffic Light | Lodging | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 0% | 1.3 |
| PECO | Green LED Traffic Light | Green Incandescent Traffic Light | Lodging | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.2 |
| PECO | Green LED Traffic Light | Green Incandescent Traffic Light | Lodging | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.2 |
| PECO | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Lodging | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 0% | 3.2 |
| PECO | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Lodging | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| PECO | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Lodging | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| PECO | Induction Street Lighting | One 100W HPS Street Light Fixture | Lodging | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 0% | 0.3 |
| PECO | Induction Street Lighting | One 100W HPS Street Light Fixture | Lodging | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.8 |
| PECO | Induction Street Lighting | One 100W HPS Street Light Fixture | Lodging | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.8 |
| PECO | LED Street Lighting | One 100W HPS Street Light | Lodging | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 0% | 0.2 |
| PECO | LED Street Lighting | One 100W HPS Street Light | Lodging | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|--|---|---------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | LED Street Lighting | One 100W HPS Street Light | Lodging | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| PECO | Red LED Traffic Light | One Red Incandescent Traffic Light | Lodging | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 0% | 1.7 |
| PECO | Red LED Traffic Light | One Red Incandescent Traffic Light | Lodging | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| PECO | Red LED Traffic Light | One Red Incandescent Traffic Light | Lodging | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| PECO | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Lodging | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 0% | 0.1 |
| PECO | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Lodging | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| PECO | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Lodging | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| PECO | Demand controlled Circulating Systems | Constant circulation system | Lodging | Water Heating | Existing | building | 4,424 | 20% | 0.2 | 15 | \$803 | 59% | 0.9 |
| PECO | Demand controlled Circulating Systems | Constant circulation system | Lodging | Water Heating | New | building | 4,424 | 20% | 0.2 | 15 | \$803 | 59% | 0.9 |
| PECO | Drainwater Heat Recovery Water Heater | No heat recovery | Lodging | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 2.0 |
| PECO | Drainwater Heat Recovery Water Heater | No heat recovery | Lodging | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 2.0 |
| PECO | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Lodging | Water Heating | Existing | building | 4,424 | 5.9% | 0.06 | 12 | \$182 | 85% | 1.0 |
| PECO | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Lodging | Water Heating | New | building | 4,424 | 5.9% | 0.06 | 12 | \$52 | 85% | 3.4 |
| PECO | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Lodging | Water Heating | Early | water heater | 48,207 | 66% | 5.6 | 10 | \$2,375 | 68% | 7.2 |
| PECO | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Lodging | Water Heating | Early | water heater | 48,207 | 66% | 5.6 | 10 | \$2,375 | 68% | 7.2 |
| PECO | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Lodging | Water Heating | New | water heater | 48,207 | 66% | 5.6 | 10 | \$2,375 | 68% | 7.2 |
| PECO | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Lodging | Water Heating | New | water heater | 48,207 | 66% | 5.6 | 10 | \$2,375 | 68% | 7.2 |
| PECO | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Lodging | Water Heating | ROB | water heater | 46,868 | 65% | 5.4 | 10 | \$2,375 | 68% | 6.9 |
| PECO | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Lodging | Water Heating | ROB | water heater | 46,868 | 65% | 5.4 | 10 | \$2,375 | 68% | 6.9 |
| PECO | Heat Recovery Unit | Base Water Heating | Lodging | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.7 |
| PECO | Heat Recovery Unit | Base Water Heating | Lodging | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.7 |
| PECO | Heat Trap | No Heat Trap | Lodging | Water Heating | Existing | building | 4,424 | 21% | 0.2 | 11 | \$26 | 50% | 21.8 |
| PECO | Heat Trap | No Heat Trap | Lodging | Water Heating | New | building | 4,424 | 21% | 0.2 | 11 | \$8.0 | 50% | 70.7 |
| PECO | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Lodging | Water Heating | Early | water heater | 48,207 | 5.9% | 0.5 | 15 | \$614 | 79% | 3.4 |
| PECO | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Lodging | Water Heating | Early | water heater | 48,207 | 5.9% | 0.5 | 15 | \$614 | 79% | 3.4 |
| PECO | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Lodging | Water Heating | New | water heater | 46,868 | 3.2% | 0.3 | 15 | \$614 | 79% | 1.8 |
| PECO | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Lodging | Water Heating | New | water heater | 46,868 | 3.2% | 0.3 | 15 | \$614 | 79% | 1.8 |
| PECO | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Lodging | Water Heating | ROB | water heater | 46,868 | 3.2% | 0.3 | 15 | \$614 | 79% | 1.8 |
| PECO | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Lodging | Water Heating | ROB | water heater | 46,868 | 3.2% | 0.3 | 15 | \$614 | 79% | 1.8 |
| PECO | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Lodging | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$466 | 81% | 41.5 |
| PECO | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Lodging | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 21.6 |
| PECO | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Lodging | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 21.6 |
| PECO | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Lodging | Water Heating | Existing | building | 4,424 | 1.3% | 0.01 | 13 | \$8.7 | 68% | 4.7 |
| PECO | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Lodging | Water Heating | New | building | 4,424 | 1.3% | 0.01 | 13 | \$8.7 | 0% | 4.7 |
| PECO | Hot Water Circulation Pump Time-Clock | Constant circulation system | Lodging | Water Heating | Existing | building | 4,424 | 5.3% | 0.05 | 10 | \$18 | 72% | 7.6 |
| PECO | Hot Water Circulation Pump Time-Clock | Constant circulation system | Lodging | Water Heating | New | building | 4,424 | 5.3% | 0.05 | 10 | \$18 | 72% | 7.6 |
| PECO | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Lodging | Water Heating | Existing | building | 4,424 | 0.2% | 0.00 | 7 | \$22 | 78% | 0.2 |
| PECO | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Lodging | Water Heating | New | building | 4,424 | 0.2% | 0.00 | 7 | \$0.5 | 78% | 7.9 |
| PECO | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Lodging | Water Heating | Existing | building | 4,424 | 4.2% | 0.04 | 5 | \$300 | 20% | 0.2 |
| PECO | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Lodging | Water Heating | New | building | 4,424 | 2.8% | 0.03 | 5 | \$194 | 20% | 0.2 |
| PECO | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Lodging | Water Heating | Existing | building | 4,424 | 6.5% | 0.07 | 9 | \$625 | 85% | 0.2 |
| PECO | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Lodging | Water Heating | New | building | 4,424 | 6.5% | 0.07 | 9 | \$150 | 85% | 1.0 |
| PECO | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Lodging | Water Heating | Early | water heater | 48,207 | 52% | 2.0 | 15 | \$12,444 | 32% | 1.3 |
| PECO | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Lodging | Water Heating | New | water heater | 46,868 | 51% | 1.9 | 15 | \$12,444 | 32% | 1.2 |
| PECO | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Lodging | Water Heating | ROB | water heater | 46,868 | 51% | 1.9 | 15 | \$12,444 | 32% | 1.2 |
| PECO | Ultrasonic Faucet Control | Manual Faucet Control | Lodging | Water Heating | Existing | building | 4,424 | 3.0% | 0.03 | 10 | \$765 | 77% | 0.1 |
| PECO | Ultrasonic Faucet Control | Manual Faucet Control | Lodging | Water Heating | New | building | 4,424 | 3.0% | 0.03 | 10 | \$765 | 77% | 0.1 |
| PECO | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Lodging | Water Heating | Existing | building | 4,424 | 2.2% | 0.02 | 4 | \$28 | 83% | 0.9 |
| PECO | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Lodging | Water Heating | New | building | 4,424 | 2.3% | 0.02 | 4 | \$28 | 83% | 0.9 |
| PECO | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Misc. | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.2 |
| PECO | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Misc. | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.2 |
| PECO | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Misc. | Cooking | Early | steamer | 51 | 46% | 0.00 | 12 | \$5,053 | 81% | 0.0 |
| PECO | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Misc. | Cooking | New | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| PECO | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Misc. | Cooking | ROB | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| PECO | Electric combination oven (Energy Star) | Standard Oven | Misc. | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 3.3 |
| PECO | Electric combination oven (Energy Star) | Standard Oven | Misc. | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 3.3 |
| PECO | Electric Convection Oven | Conventional convection oven w/ 65% efficiency | Misc. | Cooking | Early | oven | 8,641 | 37% | 0.6 | 12 | \$4,119 | 81% | 0.5 |
| PECO | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Misc. | Cooking | New | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.8 |
| PECO | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Misc. | Cooking | ROB | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.8 |
| PECO | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Misc. | Cooking | Early | fryer | 6,105 | 23% | 0.3 | 12 | \$9,241 | 86% | 0.1 |
| PECO | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Misc. | Cooking | New | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.4 |
| PECO | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Misc. | Cooking | ROB | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.4 |
| PECO | High Efficiency Griddle (ENERGY STAR) | Efficiency code minimum griddle (70% eff) | Misc. | Cooking | Early | griddle | 11,317 | 65% | 1.4 | 12 | \$4,977 | 86% | 1.0 |
| PECO | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Misc. | Cooking | New | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|--|--|---------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Misc. | Cooking | ROB | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.3 |
| PECO | High Efficiency Induction Cooking | Standard Cooking | Misc. | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.2 |
| PECO | High Efficiency Induction Cooking | Standard Cooking | Misc. | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.2 |
| PECO | Adding reflective roof treatment | Std color roof | Misc. | Cooling Central | Existing | building | 2,557 | 7.0% | 0.07 | 6 | \$12,806 | 82% | 0.0 |
| PECO | Adding reflective roof treatment | Std color roof | Misc. | Cooling Central | New | building | 2,557 | 7.0% | 0.07 | 6 | \$12,806 | 82% | 0.0 |
| PECO | Adding window shade film | No shade film | Misc. | Cooling Central | Existing | building | 2,557 | 1.3% | 0.4 | 10 | \$31 | 13% | 9.8 |
| PECO | Adding window shade film | No shade film | Misc. | Cooling Central | New | building | 2,557 | 1.3% | 0.4 | 10 | \$31 | 13% | 9.8 |
| PECO | Adding window shade screen | No shade screen | Misc. | Cooling Central | Existing | building | 2,557 | 1.1% | 0.01 | 10 | \$12 | 13% | 1.6 |
| PECO | Adding window shade screen | No shade screen | Misc. | Cooling Central | New | building | 2,557 | 1.0% | 0.01 | 10 | \$12 | 13% | 1.6 |
| PECO | Automated control system | Manual Controls | Misc. | Cooling Central | Existing | building | 2,557 | 17% | 0.2 | 15 | \$2,799 | 51% | 0.2 |
| PECO | Automated control system | Manual Controls | Misc. | Cooling Central | New | building | 2,557 | 17% | 0.2 | 15 | \$2,799 | 94% | 0.2 |
| PECO | Ceiling Insulations (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Misc. | Cooling Central | Existing | building | 2,557 | 4.9% | 0.05 | 15 | \$17,130 | 71% | 0.0 |
| PECO | Ceiling Insulations (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Misc. | Cooling Central | New | building | 2,557 | 1.7% | 0.02 | 15 | \$16,283 | 94% | 0.0 |
| PECO | Chiller Tuneup/Diagnostics | No tuneup | Misc. | Cooling Central | Existing | building | 2,557 | 8.0% | 0.08 | 10 | \$6,528 | 59% | 0.0 |
| PECO | Chiller Tuneup/Diagnostics | No tuneup | Misc. | Cooling Central | New | building | 2,557 | 8.0% | 0.08 | 10 | \$6,528 | 59% | 0.0 |
| PECO | Duct Insulation, Add R8 | No Insulation | Misc. | Cooling Central | Existing | building | 2,557 | 1.4% | 0.04 | 15 | \$20 | 20% | 3.0 |
| PECO | Duct Insulation, Add R8 | No Insulation | Misc. | Cooling Central | New | building | 2,557 | 1.4% | 0.04 | 15 | \$20 | 10% | 3.1 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Misc. | Cooling Central | Existing | building | 2,557 | 7.0% | 0.07 | 15 | \$11,340 | 25% | 0.0 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Misc. | Cooling Central | New | building | 2,557 | 7.0% | 0.07 | 15 | \$11,340 | 35% | 0.0 |
| PECO | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Misc. | Cooling Central | Early | ton | 5,730 | 24% | 0.3 | 15 | \$108,550 | 88% | 0.0 |
| PECO | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Misc. | Cooling Central | New | ton | 4,684 | 6.7% | 0.07 | 15 | \$12,927 | 88% | 0.0 |
| PECO | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Misc. | Cooling Central | ROB | ton | 4,684 | 6.7% | 0.07 | 15 | \$12,927 | 88% | 0.0 |
| PECO | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Misc. | Cooling Central | Early | ton | 8,562 | 23% | 0.5 | 15 | \$140,105 | 88% | 0.0 |
| PECO | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Misc. | Cooling Central | New | ton | 6,888 | 4.9% | 0.08 | 15 | \$9,336 | 88% | 0.0 |
| PECO | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Misc. | Cooling Central | ROB | ton | 6,888 | 4.9% | 0.08 | 15 | \$9,336 | 88% | 0.0 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Misc. | Cooling Central | Early | ton | 70,089 | 26% | 4.1 | 15 | \$105,354 | 88% | 0.1 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Misc. | Cooling Central | New | ton | 61,068 | 15% | 2.1 | 15 | \$30,530 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Misc. | Cooling Central | ROB | ton | 61,068 | 15% | 2.1 | 15 | \$30,530 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Misc. | Cooling Central | Early | ton | 104,974 | 23% | 5.4 | 15 | \$154,107 | 88% | 0.1 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Misc. | Cooling Central | New | ton | 96,432 | 16% | 3.5 | 15 | \$27,646 | 88% | 0.4 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Misc. | Cooling Central | ROB | ton | 104,974 | 23% | 5.4 | 15 | \$27,646 | 88% | 0.7 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Misc. | Cooling Central | Early | ton | 174,342 | 23% | 8.9 | 15 | \$302,924 | 88% | 0.1 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Misc. | Cooling Central | New | ton | 157,792 | 14% | 5.1 | 15 | \$115,432 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Misc. | Cooling Central | ROB | ton | 174,342 | 23% | 8.9 | 15 | \$115,432 | 88% | 0.3 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Misc. | Cooling Central | Early | ton | 209,211 | 23% | 10.6 | 15 | \$350,154 | 88% | 0.1 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Misc. | Cooling Central | New | ton | 189,351 | 14% | 6.2 | 15 | \$120,406 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Misc. | Cooling Central | ROB | ton | 209,211 | 23% | 10.6 | 15 | \$120,406 | 88% | 0.3 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Misc. | Cooling Central | Early | ton | 46,373 | 29% | 3.1 | 15 | \$83,632 | 88% | 0.1 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Misc. | Cooling Central | New | ton | 36,008 | 8.9% | 0.7 | 15 | \$40,211 | 88% | 0.1 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Misc. | Cooling Central | ROB | ton | 46,373 | 29% | 3.1 | 15 | \$40,211 | 88% | 0.3 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Misc. | Cooling Central | Early | ton | 79,681 | 35% | 6.2 | 15 | \$132,173 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Misc. | Cooling Central | New | ton | 59,428 | 13% | 1.7 | 15 | \$39,556 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Misc. | Cooling Central | ROB | ton | 59,428 | 13% | 1.7 | 15 | \$39,556 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Misc. | Cooling Central | Early | ton | 133,034 | 39% | 11.7 | 15 | \$187,029 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Misc. | Cooling Central | New | ton | 94,851 | 15% | 3.1 | 15 | \$33,554 | 88% | 0.3 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Misc. | Cooling Central | ROB | ton | 133,034 | 39% | 11.7 | 15 | \$33,554 | 88% | 1.2 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Misc. | Cooling Central | Early | ton | 23,279 | 30% | 1.6 | 15 | \$32,398 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Misc. | Cooling Central | New | ton | 18,443 | 11% | 0.5 | 15 | \$7,188 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Misc. | Cooling Central | ROB | ton | 23,279 | 30% | 1.6 | 15 | \$7,188 | 88% | 0.8 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---|---|---------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Misc. | Cooling Central | Existing | building | 2,557 | 2.2% | 0.02 | 10 | \$41,718 | 81% | 0.0 |
| PECO | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Misc. | Cooling Central | New | building | 2,557 | 2.2% | 0.02 | 10 | \$41,718 | 81% | 0.0 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Misc. | Cooling Central | Existing | building | 2,557 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.1 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Misc. | Cooling Central | New | building | 2,557 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.2 |
| PECO | Re-Commissioning (Existing Construction) | No Re-Commissioning | Misc. | Cooling Central | Existing | building | 2,557 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |
| PECO | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Misc. | Cooling Central | Existing | building | 2,557 | 14% | 0.1 | 15 | \$5,133 | 26% | 0.1 |
| PECO | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Misc. | Cooling Central | New | building | 2,557 | 0.4% | 0.00 | 15 | \$3,937 | 94% | 0.0 |
| PECO | <65k BTU/hr 14 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Misc. | Cooling Unitary | Early | ton | 2,324 | 16% | 0.2 | 15 | \$1,545 | 29% | 0.3 |
| PECO | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Misc. | Cooling Unitary | New | ton | 2,104 | 7.1% | 0.09 | 15 | \$339 | 29% | 0.5 |
| PECO | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Misc. | Cooling Unitary | ROB | ton | 2,104 | 7.1% | 0.09 | 15 | \$339 | 29% | 0.5 |
| PECO | <65k BTU/hr 15 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Misc. | Cooling Unitary | Early | ton | 2,324 | 22% | 0.3 | 15 | \$1,821 | 30% | 0.3 |
| PECO | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Misc. | Cooling Unitary | New | ton | 2,104 | 13% | 0.2 | 15 | \$714 | 30% | 0.5 |
| PECO | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Misc. | Cooling Unitary | ROB | ton | 2,104 | 13% | 0.2 | 15 | \$714 | 30% | 0.5 |
| PECO | <65k BTU/hr 16 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Misc. | Cooling Unitary | Early | ton | 2,324 | 26% | 0.4 | 15 | \$2,098 | 31% | 0.4 |
| PECO | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Misc. | Cooling Unitary | New | ton | 2,104 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.4 |
| PECO | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Misc. | Cooling Unitary | ROB | ton | 2,104 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.4 |
| PECO | >760k min 10.2 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Misc. | Cooling Unitary | Early | ton | 58,786 | 3.7% | 1.4 | 15 | \$68,066 | 56% | 0.0 |
| PECO | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Misc. | Cooling Unitary | New | ton | 59,540 | 4.9% | 1.8 | 15 | \$6,231 | 56% | 0.6 |
| PECO | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Misc. | Cooling Unitary | ROB | ton | 59,540 | 4.9% | 1.8 | 15 | \$6,231 | 56% | 0.6 |
| PECO | 135-240k min 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Misc. | Cooling Unitary | Early | ton | 14,464 | 18% | 1.6 | 15 | \$18,135 | 79% | 0.2 |
| PECO | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Misc. | Cooling Unitary | New | ton | 13,158 | 10.0% | 0.8 | 15 | \$1,948 | 65% | 0.8 |
| PECO | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Misc. | Cooling Unitary | ROB | ton | 13,158 | 10.0% | 0.8 | 15 | \$1,948 | 79% | 0.8 |
| PECO | 240k-760k min 11 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Misc. | Cooling Unitary | Early | ton | 38,771 | 9.3% | 2.2 | 15 | \$44,809 | 66% | 0.1 |
| PECO | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Misc. | Cooling Unitary | New | ton | 38,771 | 9.3% | 2.2 | 15 | \$4,813 | 66% | 0.9 |
| PECO | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Misc. | Cooling Unitary | ROB | ton | 38,771 | 9.3% | 2.2 | 15 | \$4,813 | 66% | 0.9 |
| PECO | 65k-135k BTU/hr 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Misc. | Cooling Unitary | Early | ton | 8,527 | 17% | 0.9 | 15 | \$10,946 | 86% | 0.2 |
| PECO | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Misc. | Cooling Unitary | New | ton | 7,599 | 6.7% | 0.3 | 15 | \$1,392 | 86% | 0.4 |
| PECO | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Misc. | Cooling Unitary | ROB | ton | 7,599 | 6.7% | 0.3 | 15 | \$1,392 | 86% | 0.4 |
| PECO | Adding reflective roof treatment | Std color roof | Misc. | Cooling Unitary | Existing | building | 30,497 | 7.0% | 0.07 | 6 | \$12,806 | 82% | 0.0 |
| PECO | Adding reflective roof treatment | Std color roof | Misc. | Cooling Unitary | New | building | 30,497 | 7.0% | 0.07 | 6 | \$12,806 | 82% | 0.0 |
| PECO | Adding window shade film | No shade film | Misc. | Cooling Unitary | Existing | building | 30,497 | 1.3% | 0.4 | 10 | \$371 | 12% | 1.2 |
| PECO | Adding window shade film | No shade film | Misc. | Cooling Unitary | New | building | 30,497 | 1.3% | 0.4 | 10 | \$371 | 13% | 1.2 |
| PECO | Adding window shade screen | No shade screen | Misc. | Cooling Unitary | Existing | building | 30,497 | 1.1% | 0.01 | 10 | \$144 | 12% | 1.0 |
| PECO | Adding window shade screen | No shade screen | Misc. | Cooling Unitary | New | building | 30,497 | 1.1% | 0.01 | 10 | \$144 | 13% | 1.0 |
| PECO | Automated control system | Manual Controls | Misc. | Cooling Unitary | Existing | building | 30,497 | 17% | 0.2 | 15 | \$33,386 | 51% | 0.1 |
| PECO | Automated control system | Manual Controls | Misc. | Cooling Unitary | New | building | 30,497 | 17% | 0.2 | 15 | \$33,386 | 94% | 0.1 |
| PECO | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Misc. | Cooling Unitary | Existing | building | 30,497 | 4.9% | 0.05 | 15 | \$17,130 | 71% | 0.1 |
| PECO | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Misc. | Cooling Unitary | New | building | 30,497 | 1.7% | 0.02 | 15 | \$16,283 | 94% | 0.0 |
| PECO | Duct Insulation, Add R8 | No Insulation | Misc. | Cooling Unitary | Existing | building | 30,497 | 1.4% | 0.04 | 15 | \$242 | 20% | 1.2 |
| PECO | Duct Insulation, Add R8 | No Insulation | Misc. | Cooling Unitary | New | building | 30,497 | 1.4% | 0.04 | 15 | \$242 | 10% | 1.2 |
| PECO | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Misc. | Cooling Unitary | Existing | building | 16,666 | 13% | 0.1 | 1 | \$160 | 73% | 0.7 |
| PECO | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Misc. | Cooling Unitary | New | building | 16,666 | 13% | 0.1 | 1 | \$160 | 73% | 0.7 |
| PECO | ECM Motors for split systems | Std Shaded Pole Motor | Misc. | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 3.2 |
| PECO | ECM Motors for split systems | Std Shaded Pole Motor | Misc. | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 3.2 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Misc. | Cooling Unitary | Existing | building | 30,497 | 7.1% | 0.07 | 15 | \$135,276 | 25% | 0.0 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Misc. | Cooling Unitary | New | building | 30,497 | 7.1% | 0.07 | 15 | \$135,276 | 35% | 0.0 |
| PECO | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Misc. | Cooling Unitary | Existing | building | 30,497 | 5.0% | 0.05 | 5 | \$225 | 59% | 1.6 |
| PECO | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Misc. | Cooling Unitary | Existing | building | 30,497 | 2.2% | 0.02 | 10 | \$44,835 | 86% | 0.0 |
| PECO | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Misc. | Cooling Unitary | New | building | 30,497 | 2.2% | 0.02 | 10 | \$44,835 | 86% | 0.0 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) | Misc. | Cooling Unitary | Existing | building | 30,497 | 2.0% | 0.02 | 11 | \$286 | 49% | 1.0 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Misc. | Cooling Unitary | New | building | 30,497 | 1.7% | 0.02 | 11 | \$146 | 49% | 1.7 |
| PECO | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Misc. | Cooling Unitary | Early | unit | 358 | 19% | 0.02 | 15 | \$849 | 85% | 0.1 |
| PECO | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Misc. | Cooling Unitary | New | unit | 362 | 20% | 0.02 | 15 | \$356 | 85% | 0.2 |
| PECO | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Misc. | Cooling Unitary | ROB | unit | 362 | 20% | 0.02 | 15 | \$356 | 85% | 0.2 |
| PECO | Re-Commissioning (Existing Construction) | No Re-Commissioning | Misc. | Cooling Unitary | Existing | building | 30,497 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.1 |
| PECO | Room AC (w/ louvered sides) | Exisiting efficiency Room AC in Pennsylvania (2000 Federal Standards) | Misc. | Cooling Unitary | Early | ton | 1,428 | 13% | 0.04 | 9 | \$348 | 82% | 0.3 |
| PECO | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Misc. | Cooling Unitary | New | ton | 1,295 | 4.5% | 0.01 | 9 | \$17 | 82% | 1.8 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|--|---|---------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Misc. | Cooling Unitary | ROB | ton | 1,295 | 4.5% | 0.01 | 9 | \$17 | 82% | 1.8 |
| PECO | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Misc. | Cooling Unitary | Existing | building | 30,497 | 14% | 0.1 | 15 | \$5,133 | 26% | 0.5 |
| PECO | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Misc. | Cooling Unitary | New | building | 30,497 | 0.4% | 0.00 | 15 | \$3,937 | 94% | 0.0 |
| PECO | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Misc. | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 1.1 |
| PECO | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Misc. | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.4 |
| PECO | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Misc. | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.4 |
| PECO | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Misc. | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 0% | 0.2 |
| PECO | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Misc. | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| PECO | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Misc. | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| PECO | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Misc. | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 53% | 0.3 |
| PECO | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Misc. | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 53% | 0.2 |
| PECO | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Misc. | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 53% | 2.6 |
| PECO | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Misc. | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 53% | 2.0 |
| PECO | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Misc. | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 53% | 2.6 |
| PECO | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Misc. | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 53% | 2.0 |
| PECO | Photocell Controls (Outdoor) | Lighting w/ No Controls | Misc. | Ext. Lighting | Existing | building | 117 | 28% | 0.3 | 8 | \$4,908 | 88% | 0.0 |
| PECO | Photocell Controls (Outdoor) | Lighting w/ No Controls | Misc. | Ext. Lighting | New | building | 117 | 28% | 0.3 | 8 | \$4,908 | 0% | 0.0 |
| PECO | Adding reflective roof treatment | Std color roof | Misc. | Heat Pump | Existing | building | 2,600 | 6.9% | 0.07 | 6 | \$12,806 | 82% | 0.0 |
| PECO | Adding reflective roof treatment | Std color roof | Misc. | Heat Pump | New | building | 2,600 | 6.9% | 0.07 | 6 | \$12,806 | 82% | 0.0 |
| PECO | Adding window shade film | No shade film | Misc. | Heat Pump | Existing | building | 2,600 | 3.9% | 0.4 | 10 | \$32 | 12% | 10.5 |
| PECO | Adding window shade film | No shade film | Misc. | Heat Pump | New | building | 2,600 | 3.9% | 0.4 | 10 | \$32 | 12% | 10.5 |
| PECO | Adding window shade screen | No shade screen | Misc. | Heat Pump | Existing | building | 2,600 | 0.3% | 0.01 | 10 | \$4.1 | 12% | 2.8 |
| PECO | Adding window shade screen | No shade screen | Misc. | Heat Pump | New | building | 2,600 | 0.3% | 0.01 | 10 | \$4.1 | 12% | 2.8 |
| PECO | Automated control system | Manual Controls | Misc. | Heat Pump | Existing | building | 2,600 | 17% | 0.2 | 15 | \$2,846 | 51% | 0.2 |
| PECO | Automated control system | Manual Controls | Misc. | Heat Pump | New | building | 2,600 | 17% | 0.2 | 15 | \$2,846 | 94% | 0.2 |
| PECO | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Misc. | Heat Pump | Existing | building | 2,600 | 4.9% | 0.05 | 15 | \$17,130 | 71% | 0.0 |
| PECO | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Misc. | Heat Pump | New | building | 2,600 | 1.7% | 0.02 | 15 | \$16,283 | 94% | 0.0 |
| PECO | Duct Insulation, Add R8 | No Insulation | Misc. | Heat Pump | Existing | building | 2,600 | 4.0% | 0.04 | 15 | \$21 | 12% | 4.9 |
| PECO | Duct Insulation, Add R8 | No Insulation | Misc. | Heat Pump | New | building | 2,600 | 4.0% | 0.04 | 15 | \$21 | 6% | 4.9 |
| PECO | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Misc. | Heat Pump | Early | heat pump | 2,368 | 12% | 0.07 | 15 | \$4,070 | 83% | 0.1 |
| PECO | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Misc. | Heat Pump | New | heat pump | 2,249 | 7.7% | 0.04 | 15 | \$1,097 | 83% | 0.1 |
| PECO | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Misc. | Heat Pump | ROB | heat pump | 2,249 | 7.7% | 0.04 | 15 | \$1,097 | 83% | 0.1 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Misc. | Heat Pump | Existing | building | 2,600 | 7.0% | 0.07 | 15 | \$11,533 | 25% | 0.0 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Misc. | Heat Pump | New | building | 2,600 | 7.0% | 0.07 | 15 | \$11,533 | 35% | 0.0 |
| PECO | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Misc. | Heat Pump | Early | heat pump | 24,756 | 18% | 1.0 | 15 | \$91,117 | 19% | 0.0 |
| PECO | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Misc. | Heat Pump | New | heat pump | 23,724 | 14% | 0.8 | 15 | \$33,927 | 19% | 0.1 |
| PECO | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Misc. | Heat Pump | ROB | heat pump | 23,724 | 14% | 0.8 | 15 | \$33,927 | 19% | 0.1 |
| PECO | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Misc. | Heat Pump | Early | heat pump | 24,756 | 18% | 1.0 | 15 | \$58,356 | 19% | 0.1 |
| PECO | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Misc. | Heat Pump | New | heat pump | 23,724 | 14% | 0.8 | 15 | \$1,167 | 19% | 2.3 |
| PECO | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Misc. | Heat Pump | ROB | heat pump | 23,724 | 14% | 0.8 | 15 | \$1,167 | 19% | 2.3 |
| PECO | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Misc. | Heat Pump | Early | heat pump | 6,332 | 17% | 0.2 | 12 | \$4,298 | 81% | 0.2 |
| PECO | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Misc. | Heat Pump | Early | heat pump | 6,332 | 25% | 0.4 | 12 | \$5,883 | 81% | 0.2 |
| PECO | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Misc. | Heat Pump | New | heat pump | 5,997 | 13% | 0.2 | 12 | \$852 | 81% | 0.6 |
| PECO | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Misc. | Heat Pump | New | heat pump | 5,997 | 21% | 0.3 | 12 | \$2,437 | 81% | 0.3 |
| PECO | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Misc. | Heat Pump | ROB | heat pump | 5,997 | 13% | 0.2 | 12 | \$852 | 81% | 0.6 |
| PECO | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Misc. | Heat Pump | ROB | heat pump | 5,997 | 21% | 0.3 | 12 | \$2,437 | 81% | 0.3 |
| PECO | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Misc. | Heat Pump | Existing | building | 2,600 | 2.2% | 0.02 | 10 | \$39,918 | 81% | 0.0 |
| PECO | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Misc. | Heat Pump | New | building | 2,600 | 2.2% | 0.02 | 10 | \$39,918 | 81% | 0.0 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Misc. | Heat Pump | Existing | building | 2,600 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.2 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Misc. | Heat Pump | New | building | 2,600 | 2.1% | 0.02 | 11 | \$146 | 49% | 0.3 |
| PECO | Re-Commissioning (Existing Construction) | No Re-Commissioning | Misc. | Heat Pump | Existing | building | 2,600 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |
| PECO | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Misc. | Heat Pump | Existing | building | 2,600 | 14% | 0.1 | 15 | \$5,133 | 26% | 0.1 |
| PECO | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Misc. | Heat Pump | New | building | 2,600 | 0.4% | 0.00 | 15 | \$3,937 | 94% | 0.0 |
| PECO | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Misc. | Heat Pump | Early | heat pump | 10,015 | 33% | 0.7 | 15 | \$35,347 | 28% | 0.1 |
| PECO | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Misc. | Heat Pump | New | heat pump | 9,429 | 29% | 0.6 | 15 | \$15,739 | 28% | 0.1 |
| PECO | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Misc. | Heat Pump | ROB | heat pump | 9,429 | 29% | 0.6 | 15 | \$15,739 | 28% | 0.1 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Misc. | High Bay Lighting | Early | Fixture | 596 | 9.6% | 0.01 | 13 | \$850 | 39% | 0.0 |
| PECO | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Misc. | High Bay Lighting | Early | Fixture | 595 | 9.5% | 0.01 | 13 | \$850 | 28% | 0.0 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Misc. | High Bay Lighting | Early | Fixture | 919 | 41% | 0.09 | 13 | \$850 | 36% | 0.3 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Misc. | High Bay Lighting | New | Fixture | 453 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Misc. | High Bay Lighting | New | Fixture | 422 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Misc. | High Bay Lighting | New | Fixture | 699 | 41% | 0.07 | 13 | \$397 | 36% | 0.5 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---|---|---------|-------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Misc. | High Bay Lighting | ROB | Fixture | 596 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Misc. | High Bay Lighting | ROB | Fixture | 555 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Misc. | High Bay Lighting | ROB | Fixture | 919 | 41% | 0.09 | 13 | \$397 | 36% | 0.7 |
| PECO | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Misc. | High Bay Lighting | Early | Fixture | 1,157 | 19% | 0.05 | 13 | \$851 | 38% | 0.2 |
| PECO | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Misc. | High Bay Lighting | Early | Fixture | 1,171 | 20% | 0.06 | 13 | \$851 | 38% | 0.2 |
| PECO | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | Early | Fixture | 3,407 | 73% | 0.6 | 13 | \$851 | 38% | 2.1 |
| PECO | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Misc. | High Bay Lighting | New | Fixture | 879 | 19% | 0.04 | 13 | \$372 | 38% | 0.3 |
| PECO | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | New | Fixture | 2,590 | 73% | 0.5 | 13 | \$383 | 38% | 3.6 |
| PECO | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Misc. | High Bay Lighting | ROB | Fixture | 1,157 | 19% | 0.05 | 13 | \$372 | 38% | 0.4 |
| PECO | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | ROB | Fixture | 3,407 | 73% | 0.6 | 13 | \$383 | 38% | 4.8 |
| PECO | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Misc. | High Bay Lighting | Early | Fixture | 1,157 | 25% | 0.07 | 13 | \$554 | 29% | 0.4 |
| PECO | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Misc. | High Bay Lighting | Early | Fixture | 1,136 | 23% | 0.06 | 13 | \$554 | 28% | 0.4 |
| PECO | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | Early | Fixture | 3,407 | 74% | 0.6 | 13 | \$554 | 36% | 3.4 |
| PECO | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Misc. | High Bay Lighting | New | Fixture | 879 | 25% | 0.05 | 13 | \$75 | 29% | 2.1 |
| PECO | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | New | Fixture | 2,590 | 74% | 0.5 | 13 | \$86 | 36% | 16.5 |
| PECO | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Misc. | High Bay Lighting | ROB | Fixture | 1,157 | 25% | 0.07 | 13 | \$75 | 29% | 2.8 |
| PECO | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | ROB | Fixture | 3,407 | 74% | 0.6 | 13 | \$86 | 36% | 21.8 |
| PECO | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Misc. | High Bay Lighting | Early | Fixture | 302 | 0.2% | 0.00 | 13 | \$835 | 38% | 0.0 |
| PECO | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Misc. | High Bay Lighting | Early | Fixture | 650 | 54% | 0.09 | 13 | \$835 | 38% | 0.3 |
| PECO | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Misc. | High Bay Lighting | New | Fixture | 494 | 54% | 0.06 | 13 | \$382 | 38% | 0.5 |
| PECO | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Misc. | High Bay Lighting | ROB | Fixture | 650 | 54% | 0.09 | 13 | \$382 | 38% | 0.7 |
| PECO | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Misc. | High Bay Lighting | Early | Fixture | 1,474 | 18% | 0.07 | 13 | \$487 | 25% | 0.4 |
| PECO | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Misc. | High Bay Lighting | Early | Fixture | 1,541 | 22% | 0.08 | 13 | \$487 | 28% | 0.5 |
| PECO | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | Early | Fixture | 3,407 | 65% | 0.5 | 13 | \$487 | 36% | 3.3 |
| PECO | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Misc. | High Bay Lighting | New | Fixture | 1,120 | 18% | 0.05 | 13 | \$16 | 25% | 9.2 |
| PECO | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | New | Fixture | 2,590 | 65% | 0.4 | 13 | \$18 | 36% | 67.0 |
| PECO | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Misc. | High Bay Lighting | ROB | Fixture | 1,474 | 18% | 0.07 | 13 | \$16 | 25% | 12.2 |
| PECO | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | ROB | Fixture | 3,407 | 65% | 0.5 | 13 | \$18 | 36% | 88.1 |
| PECO | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Misc. | High Bay Lighting | Early | Fixture | 1,474 | 1.5% | 0.01 | 13 | \$557 | 19% | 0.0 |
| PECO | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Misc. | High Bay Lighting | Early | Fixture | 1,517 | 4.3% | 0.02 | 13 | \$557 | 19% | 0.1 |
| PECO | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | Early | Fixture | 3,407 | 57% | 0.5 | 13 | \$557 | 19% | 2.6 |
| PECO | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Misc. | High Bay Lighting | New | Fixture | 1,120 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| PECO | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | New | Fixture | 2,590 | 57% | 0.4 | 13 | \$88 | 19% | 12.4 |
| PECO | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Misc. | High Bay Lighting | ROB | Fixture | 1,474 | 1.5% | 0.01 | 13 | \$86 | 19% | 0.2 |
| PECO | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | ROB | Fixture | 3,407 | 57% | 0.5 | 13 | \$88 | 19% | 16.3 |
| PECO | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Misc. | High Bay Lighting | Early | Fixture | 626 | 29% | 0.03 | 13 | \$492 | 71% | 0.2 |
| PECO | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Misc. | High Bay Lighting | Early | Fixture | 523 | 15% | 0.01 | 13 | \$492 | 95% | 0.1 |
| PECO | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Misc. | High Bay Lighting | Early | Fixture | 777 | 43% | 0.06 | 13 | \$492 | 95% | 0.5 |
| PECO | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Misc. | High Bay Lighting | Early | Fixture | 721 | 38% | 0.05 | 13 | \$492 | 95% | 0.4 |
| PECO | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Misc. | High Bay Lighting | New | Fixture | 398 | 15% | 0.01 | 13 | \$25 | 95% | 1.6 |
| PECO | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Misc. | High Bay Lighting | New | Fixture | 591 | 43% | 0.04 | 13 | \$51 | 95% | 3.3 |
| PECO | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Misc. | High Bay Lighting | ROB | Fixture | 523 | 15% | 0.01 | 13 | \$25 | 95% | 2.1 |
| PECO | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Misc. | High Bay Lighting | ROB | Fixture | 777 | 43% | 0.06 | 13 | \$51 | 95% | 4.3 |
| PECO | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Misc. | High Bay Lighting | Early | lamp | 104 | 16% | 0.00 | 10 | \$7.7 | 99% | 1.2 |
| PECO | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Misc. | High Bay Lighting | New | lamp | 62 | 13% | 0.00 | 10 | \$1.6 | 91% | 2.7 |
| PECO | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Misc. | High Bay Lighting | ROB | lamp | 99 | 13% | 0.00 | 10 | \$1.6 | 91% | 4.3 |
| PECO | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Misc. | High Bay Lighting | Early | Fixture | 3,487 | 23% | 0.2 | 13 | \$613 | 5% | 1.0 |
| PECO | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Misc. | High Bay Lighting | Early | Fixture | 2,739 | 1.6% | 0.01 | 13 | \$613 | 28% | 0.1 |
| PECO | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | Early | Fixture | 6,815 | 60% | 1.0 | 13 | \$613 | 18% | 4.9 |
| PECO | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Misc. | High Bay Lighting | New | Fixture | 2,650 | 23% | 0.1 | 13 | \$96 | 5% | 4.6 |
| PECO | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Misc. | High Bay Lighting | ROB | Fixture | 3,487 | 23% | 0.2 | 13 | \$96 | 5% | 6.0 |
| PECO | Auto Off Time Switch | Lighting w/ No Controls | Misc. | High Bay Lighting | Existing | building | 4,931 | 24% | 0.2 | 8 | \$997 | 13% | 0.6 |
| PECO | Auto Off Time Switch | Lighting w/ No Controls | Misc. | High Bay Lighting | New | building | 4,931 | 6.9% | 0.07 | 8 | \$997 | 0% | 0.2 |
| PECO | Central Lighting Control System | Lighting w/ No Controls | Misc. | High Bay Lighting | Existing | building | 4,931 | 38% | 0.4 | 8 | \$997 | 13% | 0.9 |
| PECO | Central Lighting Control System | Lighting w/ No Controls | Misc. | High Bay Lighting | New | building | 4,931 | 14% | 0.1 | 8 | \$997 | 13% | 0.3 |
| PECO | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Misc. | High Bay Lighting | New | building | 4,931 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.0 |
| PECO | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Misc. | High Bay Lighting | New | building | 4,931 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |
| PECO | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Misc. | High Bay Lighting | New | building | 4,931 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| PECO | Indoor Daylight Sensors | Lighting w/ No Controls | Misc. | High Bay Lighting | Existing | building | 4,931 | 28% | 0.3 | 8 | \$4,908 | 13% | 0.1 |
| PECO | Indoor Daylight Sensors | Lighting w/ No Controls | Misc. | High Bay Lighting | New | building | 4,931 | 4.0% | 0.04 | 8 | \$4,908 | 0% | 0.0 |
| PECO | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Misc. | High Bay Lighting | Early | Fixture | 3,487 | 92% | 0.8 | 13 | \$1,916 | 95% | 1.2 |
| PECO | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | Early | Fixture | 6,815 | 96% | 1.6 | 13 | \$1,916 | 95% | 2.5 |
| PECO | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Misc. | High Bay Lighting | New | Fixture | 2,650 | 92% | 0.6 | 13 | \$1,468 | 95% | 1.2 |
| PECO | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | New | Fixture | 5,179 | 96% | 1.2 | 13 | \$1,149 | 95% | 3.2 |
| PECO | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Misc. | High Bay Lighting | ROB | Fixture | 3,487 | 92% | 0.8 | 13 | \$1,468 | 95% | 1.6 |
| PECO | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | ROB | Fixture | 6,815 | 96% | 1.6 | 13 | \$1,149 | 95% | 4.2 |
| PECO | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Misc. | High Bay Lighting | Early | Fixture | 1,157 | 67% | 0.2 | 13 | \$960 | 95% | 0.6 |
| PECO | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Misc. | High Bay Lighting | Early | Fixture | 3,407 | 89% | 0.7 | 13 | \$960 | 95% | 2.3 |
| PECO | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Misc. | High Bay Lighting | Early | Fixture | 935 | 59% | 0.1 | 13 | \$960 | 95% | 0.4 |
| PECO | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Misc. | High Bay Lighting | New | Fixture | 879 | 67% | 0.1 | 13 | \$480 | 95% | 0.9 |
| PECO | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Misc. | High Bay Lighting | New | Fixture | 2,590 | 89% | 0.6 | 13 | \$491 | 95% | 3.4 |
| PECO | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Misc. | High Bay Lighting | New | Fixture | 711 | 59% | 0.1 | 13 | \$406 | 95% | 0.8 |
| PECO | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Misc. | High Bay Lighting | ROB | Fixture | 1,157 | 67% | 0.2 | 13 | \$480 | 95% | 1.2 |
| PECO | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Misc. | High Bay Lighting | ROB | Fixture | 3,407 | 89% | 0.7 | 13 | \$491 | 95% | 4.5 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---|--|---------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Misc. | High Bay Lighting | ROB | Fixture | 935 | 59% | 0.1 | 13 | \$406 | 95% | 1.0 |
| PECO | Occupancy Sensor | Lighting w/ No Controls | Misc. | High Bay Lighting | Existing | building | 4,931 | 24% | 0.2 | 8 | \$1,503 | 12% | 0.4 |
| PECO | Occupancy Sensor | Lighting w/ No Controls | Misc. | High Bay Lighting | New | building | 4,931 | 6.9% | 0.07 | 8 | \$1,503 | 0% | 0.1 |
| PECO | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Misc. | High Bay Lighting | Existing | building | 4,931 | 28% | 0.3 | 8 | \$4,908 | 12% | 0.1 |
| PECO | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Misc. | High Bay Lighting | New | building | 4,931 | 4.0% | 0.04 | 8 | \$4,908 | 0% | 0.0 |
| PECO | Time Clock Control | Lighting w/ No Controls | Misc. | High Bay Lighting | Existing | building | 4,931 | 28% | 0.3 | 8 | \$997 | 13% | 0.6 |
| PECO | Time Clock Control | Lighting w/ No Controls | Misc. | High Bay Lighting | New | building | 4,931 | 4.0% | 0.04 | 8 | \$997 | 0% | 0.1 |
| PECO | Auto Off Time Switch | Lighting w/ No Controls | Misc. | Lin. Fluor. Lighting | Existing | building | 19,256 | 24% | 0.2 | 8 | \$997 | 13% | 1.7 |
| PECO | Auto Off Time Switch | Lighting w/ No Controls | Misc. | Lin. Fluor. Lighting | New | building | 19,256 | 7.0% | 0.07 | 8 | \$997 | 0% | 0.5 |
| PECO | Central Lighting Control System | Lighting w/ No Controls | Misc. | Lin. Fluor. Lighting | Existing | building | 19,256 | 38% | 0.4 | 8 | \$997 | 12% | 2.7 |
| PECO | Central Lighting Control System | Lighting w/ No Controls | Misc. | Lin. Fluor. Lighting | New | building | 19,256 | 14% | 0.1 | 8 | \$997 | 12% | 1.0 |
| PECO | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Misc. | Lin. Fluor. Lighting | New | building | 19,256 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.0 |
| PECO | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Misc. | Lin. Fluor. Lighting | New | building | 19,256 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |
| PECO | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Misc. | Lin. Fluor. Lighting | New | building | 19,256 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| PECO | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Misc. | Lin. Fluor. Lighting | Early | Lamp | 208 | 38% | 0.01 | 10 | \$7.3 | 94% | 5.8 |
| PECO | Indoor Daylight Sensors | Lighting w/ No Controls | Misc. | Lin. Fluor. Lighting | Existing | building | 19,256 | 28% | 0.3 | 8 | \$4,908 | 13% | 0.4 |
| PECO | Indoor Daylight Sensors | Lighting w/ No Controls | Misc. | Lin. Fluor. Lighting | New | building | 19,256 | 4.1% | 0.04 | 8 | \$4,908 | 0% | 0.1 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | Early | Lamp | 73 | 19% | 0.00 | 15 | \$35 | 94% | 0.3 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 40W T12 Lamp, Magnetic Ballast | Misc. | Lin. Fluor. Lighting | Early | Lamp | 161 | 63% | 0.03 | 15 | \$35 | 94% | 2.4 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | Early | Lamp | 90 | 34% | 0.01 | 15 | \$35 | 94% | 0.7 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | Early | Lamp | 87 | 32% | 0.01 | 15 | \$35 | 94% | 0.7 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | New | Lamp | 56 | 19% | 0.00 | 15 | \$28 | 94% | 0.3 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | New | Lamp | 66 | 32% | 0.01 | 15 | \$29 | 94% | 0.6 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | New | Lamp | 68 | 34% | 0.01 | 15 | \$22 | 94% | 0.9 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | New | Lamp | 66 | 32% | 0.01 | 15 | \$29 | 94% | 0.6 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | ROB | Lamp | 73 | 19% | 0.00 | 15 | \$28 | 94% | 0.4 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | ROB | Lamp | 87 | 32% | 0.01 | 15 | \$29 | 94% | 0.8 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | ROB | Lamp | 90 | 34% | 0.01 | 15 | \$22 | 94% | 1.2 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | ROB | Lamp | 87 | 32% | 0.01 | 15 | \$29 | 94% | 0.8 |
| PECO | Occupancy Sensor | Lighting w/ No Controls | Misc. | Lin. Fluor. Lighting | Existing | building | 19,256 | 24% | 0.2 | 8 | \$1,503 | 13% | 1.1 |
| PECO | Occupancy Sensor | Lighting w/ No Controls | Misc. | Lin. Fluor. Lighting | New | building | 19,256 | 7.0% | 0.07 | 8 | \$1,503 | 0% | 0.3 |
| PECO | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Misc. | Lin. Fluor. Lighting | Existing | building | 19,256 | 28% | 0.3 | 8 | \$4,908 | 12% | 0.4 |
| PECO | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Misc. | Lin. Fluor. Lighting | New | building | 19,256 | 4.1% | 0.04 | 8 | \$4,908 | 0% | 0.1 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 40W T12 w/ Magnetic Ballast | Misc. | Lin. Fluor. Lighting | Early | Lamp | 208 | 54% | 0.02 | 10 | \$9.1 | 94% | 6.7 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | Early | Lamp | 133 | 28% | 0.01 | 10 | \$9.1 | 24% | 2.2 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | Early | Lamp | 129 | 26% | 0.01 | 10 | \$9.1 | 94% | 2.0 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | New | Lamp | 98 | 26% | 0.00 | 10 | \$2.5 | 94% | 5.4 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | New | Lamp | 98 | 26% | 0.00 | 10 | \$2.5 | 94% | 5.4 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | New | Lamp | 101 | 28% | 0.00 | 10 | \$2.5 | 24% | 6.1 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | New | Lamp | 98 | 26% | 0.00 | 10 | \$2.5 | 94% | 5.4 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | ROB | Lamp | 129 | 26% | 0.01 | 10 | \$2.5 | 94% | 7.1 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | ROB | Lamp | 129 | 26% | 0.01 | 10 | \$2.5 | 94% | 7.1 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | ROB | Lamp | 133 | 28% | 0.01 | 10 | \$2.5 | 24% | 8.0 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | ROB | Lamp | 129 | 26% | 0.01 | 10 | \$2.5 | 94% | 7.1 |
| PECO | T8 Lamp (any length) Electronic Ballast | Standard T12 lamp (any length) | Misc. | Lin. Fluor. Lighting | Early | Lamp | 245 | 42% | 0.02 | 10 | \$14 | 94% | 4.0 |
| PECO | Time Clock Control | Lighting w/ No Controls | Misc. | Lin. Fluor. Lighting | Existing | building | 19,256 | 28% | 0.3 | 8 | \$997 | 14% | 2.0 |
| PECO | Time Clock Control | Lighting w/ No Controls | Misc. | Lin. Fluor. Lighting | New | building | 19,256 | 4.1% | 0.04 | 8 | \$997 | 0% | 0.3 |
| PECO | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | Early | motor | 3,488 | 3.6% | 0.01 | 15 | \$374 | 76% | 0.2 |
| PECO | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | Early | motor | 3,488 | 3.6% | 0.01 | 15 | \$374 | 76% | 0.2 |
| PECO | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | Early | motor | 3,488 | 3.6% | 0.01 | 15 | \$374 | 76% | 0.2 |
| PECO | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | Early | motor | 3,488 | 3.6% | 0.01 | 15 | \$374 | 76% | 0.2 |
| PECO | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | Early | motor | 3,488 | 3.6% | 0.01 | 15 | \$374 | 76% | 0.2 |
| PECO | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | New | motor | 3,382 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| PECO | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | New | motor | 3,382 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| PECO | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | New | motor | 3,382 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| PECO | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | New | motor | 3,382 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| PECO | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | New | motor | 3,382 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| PECO | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 3,382 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| PECO | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 3,382 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| PECO | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 3,382 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| PECO | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 3,382 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| PECO | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | Early | motor | 5,143 | 3.1% | 0.02 | 15 | \$402 | 76% | 0.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---|--|---------|---------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | New | motor | 182,621 | 0.5% | 0.1 | 15 | \$431 | 70% | 1.4 |
| PECO | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | New | motor | 182,621 | 0.5% | 0.1 | 15 | \$431 | 70% | 1.5 |
| PECO | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | New | motor | 182,621 | 0.5% | 0.1 | 15 | \$431 | 70% | 1.4 |
| PECO | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 182,621 | 0.5% | 0.1 | 15 | \$431 | 70% | 1.4 |
| PECO | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 182,621 | 0.5% | 0.1 | 15 | \$431 | 70% | 1.4 |
| PECO | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 182,621 | 0.5% | 0.1 | 15 | \$431 | 70% | 1.5 |
| PECO | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 182,621 | 0.5% | 0.1 | 15 | \$431 | 70% | 1.4 |
| PECO | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | Early | motor | 24,415 | 2.9% | 0.08 | 15 | \$802 | 83% | 0.6 |
| PECO | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | Early | motor | 24,415 | 2.9% | 0.08 | 15 | \$802 | 83% | 0.6 |
| PECO | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | Early | motor | 24,415 | 2.9% | 0.08 | 15 | \$802 | 83% | 0.6 |
| PECO | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | Early | motor | 24,415 | 2.9% | 0.08 | 15 | \$802 | 83% | 0.6 |
| PECO | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | New | motor | 23,831 | 0.5% | 0.01 | 15 | \$123 | 83% | 0.7 |
| PECO | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | New | motor | 23,831 | 0.5% | 0.01 | 15 | \$123 | 83% | 0.7 |
| PECO | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | New | motor | 23,831 | 0.5% | 0.01 | 15 | \$123 | 83% | 0.7 |
| PECO | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 23,831 | 0.5% | 0.01 | 15 | \$123 | 83% | 0.7 |
| PECO | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 23,831 | 0.5% | 0.01 | 15 | \$123 | 83% | 0.7 |
| PECO | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 23,831 | 0.5% | 0.01 | 15 | \$123 | 83% | 0.7 |
| PECO | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 23,831 | 0.5% | 0.01 | 15 | \$123 | 83% | 0.7 |
| PECO | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 23,831 | 0.5% | 0.01 | 15 | \$123 | 83% | 0.7 |
| PECO | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | Early | motor | 230,173 | 1.3% | 0.3 | 15 | \$3,955 | 61% | 0.5 |
| PECO | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | Early | motor | 230,173 | 1.3% | 0.3 | 15 | \$3,955 | 61% | 0.5 |
| PECO | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | Early | motor | 230,173 | 1.3% | 0.3 | 15 | \$3,955 | 61% | 0.5 |
| PECO | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | Early | motor | 230,173 | 1.3% | 0.3 | 15 | \$3,955 | 61% | 0.5 |
| PECO | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | New | motor | 228,276 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.4 |
| PECO | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | New | motor | 228,276 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.4 |
| PECO | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | New | motor | 228,276 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.4 |
| PECO | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 228,276 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.4 |
| PECO | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 228,276 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.4 |
| PECO | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 228,276 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.4 |
| PECO | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 228,276 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.4 |
| PECO | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 228,276 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.4 |
| PECO | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Misc. | Motors | ROB | motor | 228,276 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.4 |
| PECO | Downsizing motor during retrofit | Larger hp standard motor | Misc. | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 23.6 |
| PECO | Downsizing motor during retrofit | Larger hp standard motor | Misc. | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 23.9 |
| PECO | Downsizing motor during retrofit | Larger hp standard motor | Misc. | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 24.3 |
| PECO | Downsizing motor during retrofit | Larger hp standard motor | Misc. | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 25.2 |
| PECO | Downsizing motor during retrofit | Larger hp standard motor | Misc. | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 25.6 |
| PECO | Downsizing motor during retrofit | Larger hp standard motor | Misc. | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 23.5 |
| PECO | Downsizing motor during retrofit | Larger hp standard motor | Misc. | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 24.2 |
| PECO | Downsizing motor during retrofit | Larger hp standard motor | Misc. | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 24.6 |
| PECO | Downsizing motor during retrofit | Larger hp standard motor | Misc. | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 25.4 |
| PECO | Downsizing motor during retrofit | Larger hp standard motor | Misc. | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 25.4 |
| PECO | Escalator Motor Controller | Constant power control | Misc. | Motors | New | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 45% | 6.4 |
| PECO | Escalator Motor Controller | Constant power control | Misc. | Motors | ROB | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 45% | 6.4 |
| PECO | Variable Speed Drive Control, 15HP | Existing Motors w/out VSD Drive | Misc. | Motors | Early | motor | 47,662 | 70% | 3.7 | 15 | \$731 | 86% | 30.4 |
| PECO | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Misc. | Motors | New | motor | 46,637 | 72% | 3.7 | 15 | \$731 | 86% | 30.5 |
| PECO | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Misc. | Motors | ROB | motor | 46,637 | 72% | 3.7 | 15 | \$731 | 86% | 30.5 |
| PECO | Variable Speed Drive Control, 40HP | Existing Motors w/out VSD Drive | Misc. | Motors | Early | motor | 124,365 | 71% | 9.7 | 15 | \$4,666 | 86% | 12.6 |
| PECO | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Misc. | Motors | New | motor | 122,912 | 72% | 9.7 | 15 | \$4,666 | 86% | 12.6 |
| PECO | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Misc. | Motors | ROB | motor | 122,912 | 72% | 9.7 | 15 | \$4,666 | 86% | 12.6 |
| PECO | Variable Speed Drive Control, 5HP | Existing Motors w/out VFD Drive | Misc. | Motors | Early | motor | 16,523 | 70% | 1.3 | 15 | \$2,243 | 86% | 3.4 |
| PECO | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Misc. | Motors | New | motor | 16,154 | 72% | 1.3 | 15 | \$2,243 | 86% | 3.4 |
| PECO | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Misc. | Motors | ROB | motor | 16,154 | 72% | 1.3 | 15 | \$2,243 | 86% | 3.4 |
| PECO | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Misc. | Motors | Early | motor | 4,943 | 23% | 0.1 | 15 | \$268 | 13% | 2.8 |
| PECO | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Misc. | Motors | New | motor | 4,943 | 23% | 0.1 | 15 | \$268 | 13% | 2.8 |
| PECO | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Misc. | Motors | ROB | motor | 4,943 | 23% | 0.1 | 15 | \$268 | 13% | 2.8 |
| PECO | VFD on Chilled Water Pump | Motor w/out VFD Drive | Misc. | Motors | Early | motor | 18,724 | 54% | 1.1 | 15 | \$2,903 | 86% | 2.3 |
| PECO | VFD on Chilled Water Pump | Motor w/out VFD Drive | Misc. | Motors | New | motor | 18,373 | 55% | 1.1 | 15 | \$2,843 | 86% | 2.3 |
| PECO | VFD on Chilled Water Pump | Motor w/out VFD Drive | Misc. | Motors | ROB | motor | 18,373 | 55% | 1.1 | 15 | \$2,843 | 86% | 2.3 |
| PECO | VFD on Condenser Water Pump | Motor w/out VFD Drive | Misc. | Motors | Early | motor | 18,641 | 32% | 0.6 | 15 | \$2,903 | 86% | 1.4 |
| PECO | VFD on Condenser Water Pump | Motor w/out VFD Drive | Misc. | Motors | New | motor | 18,292 | 33% | 0.6 | 15 | \$2,843 | 86% | 1.4 |
| PECO | VFD on Condenser Water Pump | Motor w/out VFD Drive | Misc. | Motors | ROB | motor | 18,292 | 33% | 0.6 | 15 | \$2,843 | 86% | 1.4 |
| PECO | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Misc. | Motors | Early | motor | 24,733 | 56% | 1.5 | 15 | \$2,903 | 86% | 3.1 |
| PECO | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Misc. | Motors | New | motor | 24,271 | 57% | 1.5 | 15 | \$2,843 | 86% | 3.2 |
| PECO | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Misc. | Motors | ROB | motor | 24,271 | 57% | 1.5 | 15 | \$2,843 | 86% | 3.2 |
| PECO | VFD on HVAC Fan | Motor w/out VFD | Misc. | Motors | Early | motor | 18,724 | 70% | 1.5 | 15 | \$2,903 | 86% | 3.0 |
| PECO | VFD on HVAC Fan | Motor w/out VFD | Misc. | Motors | New | motor | 18,373 | 72% | 1.5 | 15 | \$2,843 | 86% | 3.1 |
| PECO | VFD on HVAC Fan | Motor w/out VFD | Misc. | Motors | ROB | motor | 18,373 | 72% | 1.5 | 15 | \$2,843 | 86% | 3.1 |
| PECO | Variable Speed Drives on Process Equipment | Constant speed control | Misc. | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 9% | 11.8 |
| PECO | Variable Speed Drives on Process Equipment | Constant speed control | Misc. | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 9% | 11.8 |
| PECO | Auto Off Time Switch | Lighting w/ No Controls | Misc. | Other Int. Lighting | Existing | building | 9,576 | 24% | 0.2 | 8 | \$997 | 13% | 0.9 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---|--|---------|---------------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Auto Off Time Switch | Lighting w/ No Controls | Misc. | Other Int. Lighting | New | building | 9,576 | 7.0% | 0.07 | 8 | \$997 | 0% | 0.3 |
| PECO | Central Lighting Control System | Lighting w/ No Controls | Misc. | Other Int. Lighting | Existing | building | 9,576 | 38% | 0.4 | 8 | \$997 | 13% | 1.5 |
| PECO | Central Lighting Control System | Lighting w/ No Controls | Misc. | Other Int. Lighting | New | building | 9,576 | 14% | 0.1 | 8 | \$997 | 13% | 0.5 |
| PECO | Cold Cathode Screw-In Bulb | 40W Incandescent Bulb | Misc. | Other Int. Lighting | Early | lamp | 169 | 87% | 0.04 | 9 | \$30 | 14% | 2.7 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Misc. | Other Int. Lighting | Early | lamp | 121 | 81% | 0.02 | 9 | \$30 | 11% | 1.8 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Misc. | Other Int. Lighting | New | lamp | 92 | 81% | 0.02 | 9 | \$21 | 14% | 1.9 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Misc. | Other Int. Lighting | New | lamp | 92 | 81% | 0.02 | 9 | \$23 | 14% | 1.8 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Misc. | Other Int. Lighting | New | lamp | 92 | 81% | 0.02 | 9 | \$22 | 11% | 1.9 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Misc. | Other Int. Lighting | ROB | lamp | 121 | 81% | 0.02 | 9 | \$21 | 14% | 2.6 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Misc. | Other Int. Lighting | ROB | lamp | 121 | 81% | 0.02 | 9 | \$23 | 14% | 2.4 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Misc. | Other Int. Lighting | ROB | lamp | 121 | 81% | 0.02 | 9 | \$22 | 11% | 2.5 |
| PECO | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Misc. | Other Int. Lighting | Early | lamp | 169 | 75% | 0.03 | 4 | \$73 | 18% | 0.5 |
| PECO | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Misc. | Other Int. Lighting | New | fixture | 184 | 65% | 0.03 | 13 | \$29 | 21% | 3.1 |
| PECO | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Misc. | Other Int. Lighting | New | lamp | 92 | 65% | 0.01 | 4 | \$29 | 21% | 0.6 |
| PECO | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Misc. | Other Int. Lighting | ROB | fixture | 242 | 65% | 0.04 | 13 | \$29 | 18% | 4.1 |
| PECO | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Misc. | Other Int. Lighting | ROB | lamp | 121 | 65% | 0.02 | 4 | \$29 | 18% | 0.7 |
| PECO | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Misc. | Other Int. Lighting | Early | lamp | 169 | 75% | 0.03 | 4 | \$3.2 | 20% | 10.5 |
| PECO | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Misc. | Other Int. Lighting | New | lamp | 92 | 65% | 0.01 | 4 | \$1.8 | 20% | 8.9 |
| PECO | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Misc. | Other Int. Lighting | ROB | lamp | 121 | 65% | 0.02 | 4 | \$1.8 | 20% | 11.7 |
| PECO | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Misc. | Other Int. Lighting | ROB | lamp | 121 | 65% | 0.02 | 4 | \$1.8 | 20% | 11.7 |
| PECO | Exit Sign Retrofit: CFL replacing Incandescent | One 23W Single Sided Incandescent Exit Sign | Misc. | Other Int. Lighting | Early | exit sign | 136 | 42% | 0.01 | 15 | \$48 | 22% | 0.8 |
| PECO | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Misc. | Other Int. Lighting | New | building | 9,576 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.0 |
| PECO | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Misc. | Other Int. Lighting | New | building | 9,576 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |
| PECO | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Misc. | Other Int. Lighting | New | building | 9,576 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| PECO | Indoor Daylight Sensors | Lighting w/ No Controls | Misc. | Other Int. Lighting | Existing | building | 9,576 | 28% | 0.3 | 8 | \$4,908 | 13% | 0.2 |
| PECO | Indoor Daylight Sensors | Lighting w/ No Controls | Misc. | Other Int. Lighting | New | building | 9,576 | 4.1% | 0.04 | 8 | \$4,908 | 0% | 0.0 |
| PECO | LED Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Misc. | Other Int. Lighting | Early | sign | 88 | 78% | 0.01 | 15 | \$48 | 16% | 1.0 |
| PECO | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Misc. | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 2.1 |
| PECO | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Misc. | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 2.1 |
| PECO | LED Task Lighting/Screw-In | 1 15W CFL bulb | Misc. | Other Int. Lighting | Early | lamp | 30 | 33% | 0.00 | 12 | \$9.6 | 20% | 0.7 |
| PECO | LED Task Lighting/Screw-In | 1 60W Incandescent Bulb | Misc. | Other Int. Lighting | Early | lamp | 119 | 83% | 0.02 | 12 | \$9.6 | 20% | 6.8 |
| PECO | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Misc. | Other Int. Lighting | New | lamp | 65 | 77% | 0.01 | 12 | \$7.9 | 20% | 4.1 |
| PECO | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Misc. | Other Int. Lighting | New | lamp | 65 | 77% | 0.01 | 12 | \$7.9 | 20% | 4.1 |
| PECO | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Misc. | Other Int. Lighting | ROB | lamp | 86 | 77% | 0.01 | 12 | \$7.9 | 20% | 5.4 |
| PECO | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Misc. | Other Int. Lighting | ROB | lamp | 86 | 77% | 0.01 | 12 | \$7.9 | 20% | 5.4 |
| PECO | Occupancy Sensor | Lighting w/ No Controls | Misc. | Other Int. Lighting | Existing | building | 9,576 | 24% | 0.2 | 8 | \$1,503 | 12% | 0.6 |
| PECO | Occupancy Sensor | Lighting w/ No Controls | Misc. | Other Int. Lighting | New | building | 9,576 | 7.0% | 0.07 | 8 | \$1,503 | 0% | 0.2 |
| PECO | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Misc. | Other Int. Lighting | Existing | building | 9,576 | 28% | 0.3 | 8 | \$4,908 | 12% | 0.2 |
| PECO | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Misc. | Other Int. Lighting | New | building | 9,576 | 4.1% | 0.04 | 8 | \$4,908 | 0% | 0.0 |
| PECO | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Misc. | Other Int. Lighting | Early | exit sign | 136 | 100% | 0.02 | 15 | \$173 | 26% | 0.6 |
| PECO | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Misc. | Other Int. Lighting | New | exit sign | 78 | 100% | 0.01 | 15 | \$148 | 31% | 0.4 |
| PECO | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Misc. | Other Int. Lighting | ROB | exit sign | 78 | 100% | 0.01 | 15 | \$148 | 26% | 0.4 |
| PECO | Time Clock Control | Lighting w/ No Controls | Misc. | Other Int. Lighting | Existing | building | 9,576 | 28% | 0.3 | 8 | \$997 | 13% | 1.1 |
| PECO | Time Clock Control | Lighting w/ No Controls | Misc. | Other Int. Lighting | New | building | 9,576 | 4.1% | 0.04 | 8 | \$997 | 0% | 0.2 |
| PECO | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Misc. | Plug Load | Existing | building | 2,913 | 46% | 0.5 | 5 | \$189 | 4% | 2.6 |
| PECO | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Misc. | Plug Load | New | building | 1,422 | 46% | 0.5 | 5 | \$189 | 4% | 1.8 |
| PECO | Data Center - Server/Storage Consolidation | No Consolidation | Misc. | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PECO | Data Center - Server/Storage Consolidation | No Consolidation | Misc. | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PECO | Data Center - Server/Storage Virtualization | No Virtualization | Misc. | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PECO | Data Center - Server/Storage Virtualization | No Virtualization | Misc. | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PECO | Energy Star - Scanners | Std Scanner | Misc. | Plug Load | New | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| PECO | Energy Star - Scanners | Std Scanner | Misc. | Plug Load | ROB | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| PECO | Energy Star Dishwasher | Existing Dishwasher units | Misc. | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,580 | 6% | 1.1 |
| PECO | Energy Star Dishwasher | Standard Dishwasher unit | Misc. | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 6% | 3.6 |
| PECO | Energy Star Dishwasher | Standard Dishwasher unit | Misc. | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 6% | 3.6 |
| PECO | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Misc. | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 17% | 0.2 |
| PECO | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Misc. | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.3 |
| PECO | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Misc. | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.3 |
| PECO | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Misc. | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 64% | 0.8 |
| PECO | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Misc. | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 64% | 1.8 |
| PECO | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Misc. | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 64% | 1.8 |
| PECO | ENERGY STAR® Copiers | 10% Less Efficient Copier | Misc. | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 18% | 0.0 |
| PECO | ENERGY STAR® Copiers | One Conventional Copier | Misc. | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| PECO | ENERGY STAR® Copiers | One Conventional Copier | Misc. | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| PECO | ENERGY STAR® desktop | Standard computer | Misc. | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 69% | 0.1 |
| PECO | ENERGY STAR® desktop | Standard computer | Misc. | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.4 |
| PECO | ENERGY STAR® desktop | Standard computer | Misc. | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.4 |
| PECO | ENERGY STAR® Fax | 10% Less Efficient Fax | Misc. | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 15% | 0.0 |
| PECO | ENERGY STAR® Fax | One Conventional Fax | Misc. | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| PECO | ENERGY STAR® Fax | One Conventional Fax | Misc. | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---|---|---------|---------------|----------|-------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Misc. | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 70% | 0.0 |
| PECO | ENERGY STAR® Monitors | One Conventional Monitor | Misc. | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| PECO | ENERGY STAR® Monitors | One Conventional Monitor | Misc. | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| PECO | ENERGY STAR® Printers | 10% Less Efficient Printer | Misc. | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 44% | 0.0 |
| PECO | ENERGY STAR® Printers | One Conventional Printer | Misc. | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.4 |
| PECO | ENERGY STAR® Printers | One Conventional Printer | Misc. | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.4 |
| PECO | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Misc. | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 43% | 0.1 |
| PECO | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Misc. | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.8 |
| PECO | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Misc. | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.8 |
| PECO | ENERGY STAR® Televisions | 10% Less Efficient Television | Misc. | Plug Load | Early | Unit | 221 | 38% | 0.02 | 6 | \$672 | 40% | 0.0 |
| PECO | ENERGY STAR® Televisions | One Conventional Television | Misc. | Plug Load | New | Unit | 201 | 32% | 0.01 | 6 | \$206 | 40% | 0.1 |
| PECO | ENERGY STAR® Televisions | One Conventional Television | Misc. | Plug Load | ROB | Unit | 201 | 32% | 0.01 | 6 | \$206 | 40% | 0.1 |
| PECO | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Misc. | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 24% | 0.3 |
| PECO | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Misc. | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.7 |
| PECO | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Misc. | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.7 |
| PECO | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Misc. | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.3 |
| PECO | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Misc. | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.3 |
| PECO | Network PC Power Management | No PC Power Management | Misc. | Plug Load | Existing | building | 425 | 33% | 0.3 | 5 | \$12 | 38% | 21.2 |
| PECO | Network PC Power Management | No PC Power Management | Misc. | Plug Load | New | building | 425 | 33% | 0.3 | 5 | \$12 | 38% | 21.2 |
| PECO | Smart Strip Plug Outlets | Standard plug strip/outlet | Misc. | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.4 |
| PECO | Smart Strip Plug Outlets | Standard plug strip/outlet | Misc. | Plug Load | Early | Smart Strip | 378 | 26% | 0.01 | 5 | \$21 | 85% | 1.2 |
| PECO | Smart Strip Plug Outlets | Standard plug strip/outlet | Misc. | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PECO | Smart Strip Plug Outlets | Standard plug strip/outlet | Misc. | Plug Load | New | Smart Strip | 296 | 42% | 0.01 | 5 | \$21 | 85% | 1.4 |
| PECO | Smart Strip Plug Outlets | Standard plug strip/outlet | Misc. | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PECO | Smart Strip Plug Outlets | Standard plug strip/outlet | Misc. | Plug Load | ROB | Smart Strip | 296 | 42% | 0.01 | 5 | \$21 | 85% | 1.4 |
| PECO | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Misc. | Plug Load | Existing | building | 2,913 | 46% | 0.5 | 5 | \$180 | 3% | 2.7 |
| PECO | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Misc. | Plug Load | New | building | 1,422 | 46% | 0.5 | 5 | \$180 | 3% | 1.9 |
| PECO | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Misc. | Refrigeration | Existing | building | 860 | 3.6% | 0.04 | 12 | \$70 | 11% | 0.7 |
| PECO | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Misc. | Refrigeration | New | building | 860 | 3.6% | 0.04 | 12 | \$70 | 11% | 0.7 |
| PECO | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Misc. | Refrigeration | Existing | building | 860 | 1.4% | 0.01 | 12 | \$70 | 11% | 0.3 |
| PECO | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Misc. | Refrigeration | New | building | 860 | 1.4% | 0.01 | 12 | \$70 | 11% | 0.3 |
| PECO | Auto Closer on Refrigerator Door | Door w/out Autocloser | Misc. | Refrigeration | Existing | building | 3,439 | 23% | 0.2 | 8 | \$642 | 40% | 0.6 |
| PECO | Auto Closer on Refrigerator Door | Door w/out Autocloser | Misc. | Refrigeration | Existing | building | 5,731 | 14% | 0.1 | 8 | \$700 | 40% | 0.5 |
| PECO | Auto Closer on Refrigerator Door | Door w/out Autocloser | Misc. | Refrigeration | New | building | 3,439 | 23% | 0.2 | 8 | \$642 | 40% | 0.6 |
| PECO | Auto Closer on Refrigerator Door | Door w/out Autocloser | Misc. | Refrigeration | New | building | 5,731 | 14% | 0.1 | 8 | \$700 | 40% | 0.5 |
| PECO | Demand Hot Gas Defrost | Base Refrigeration System | Misc. | Refrigeration | Existing | building | 860 | 3.0% | 0.03 | 10 | \$1,307 | 0% | 0.0 |
| PECO | Demand Hot Gas Defrost | Base Refrigeration System | Misc. | Refrigeration | New | building | 860 | 3.0% | 0.03 | 10 | \$1,307 | 0% | 0.0 |
| PECO | Door Gasket- Freezer | Door w/out Gasket | Misc. | Refrigeration | Existing | building | 3,439 | 14% | 0.1 | 4 | \$66 | 29% | 1.0 |
| PECO | Door Gasket- Freezer | Door w/out Gasket | Misc. | Refrigeration | New | building | 3,439 | 7.0% | 0.07 | 4 | \$66 | 29% | 1.0 |
| PECO | Door Gasket- Refrigerator | Door w/out Gasket | Misc. | Refrigeration | Existing | building | 5,731 | 4.4% | 0.04 | 4 | \$97 | 45% | 0.6 |
| PECO | Door Gasket- Refrigerator | Door w/out Gasket | Misc. | Refrigeration | New | building | 5,731 | 4.4% | 0.04 | 4 | \$97 | 45% | 0.6 |
| PECO | eCube | Refrigeration unit w/out eCube | Misc. | Refrigeration | Existing | building | 5,731 | 15% | 0.2 | 15 | \$601 | 57% | 1.0 |
| PECO | eCube | Refrigeration unit w/out eCube | Misc. | Refrigeration | New | building | 5,731 | 15% | 0.2 | 15 | \$601 | 57% | 1.0 |
| PECO | Efficient compressor motor | Base Refrigeration System - Grocery | Misc. | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| PECO | Efficient compressor motor | Base Refrigeration System - Grocery | Misc. | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| PECO | Efficient compressor motor | Base Refrigeration System - Grocery | Misc. | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| PECO | Efficient compressor motor | Base Refrigeration System - Grocery | Misc. | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| PECO | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Misc. | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.6 |
| PECO | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Misc. | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| PECO | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Misc. | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| PECO | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Misc. | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.3 |
| PECO | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Misc. | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.8 |
| PECO | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Misc. | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.8 |
| PECO | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Misc. | Refrigeration | Existing | building | 5,731 | 1.7% | 0.02 | 10 | \$369 | 77% | 0.1 |
| PECO | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Misc. | Refrigeration | New | building | 5,731 | 1.7% | 0.02 | 10 | \$369 | 77% | 0.1 |
| PECO | Floating head pressure controller | System w/out FHPC | Misc. | Refrigeration | Existing | building | 3,439 | 6.7% | 0.03 | 15 | \$8,682 | 41% | 0.0 |
| PECO | Floating head pressure controller | System w/out FHPC | Misc. | Refrigeration | Existing | building | 860 | 11% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| PECO | Floating head pressure controller | System w/out FHPC | Misc. | Refrigeration | Existing | building | 5,731 | 1.4% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| PECO | Floating head pressure controller | System w/out FHPC | Misc. | Refrigeration | New | building | 3,439 | 6.7% | 0.03 | 15 | \$8,682 | 41% | 0.0 |
| PECO | Floating head pressure controller | System w/out FHPC | Misc. | Refrigeration | New | building | 860 | 11% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| PECO | Floating head pressure controller | System w/out FHPC | Misc. | Refrigeration | New | building | 5,731 | 1.4% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| PECO | High Efficiency Commercial Freezer | Std. Commercial Freezer | Misc. | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 86% | 0.3 |
| PECO | High Efficiency Commercial Freezer | Std. Commercial Freezer | Misc. | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 4.2 |
| PECO | High Efficiency Commercial Freezer | Std. Commercial Freezer | Misc. | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 4.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|--|---|---------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Misc. | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 2% | 0.1 |
| PECO | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Misc. | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.9 |
| PECO | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Misc. | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.9 |
| PECO | High Efficiency Ice Maker | Exisiting Standard Efficiency Ice Maker in Pennsylvania | Misc. | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 73% | 0.2 |
| PECO | High Efficiency Ice Maker | Standard code minimum Ice Maker | Misc. | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| PECO | High Efficiency Ice Maker | Standard code minimum Ice Maker | Misc. | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| PECO | High Efficiency Ice Making Head | Standard Ice Making Head | Misc. | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 4.1 |
| PECO | High Efficiency Ice Making Head | Standard Ice Making Head | Misc. | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 4.1 |
| PECO | High R-Value Glass Doors | Base Refrigeration System - Grocery | Misc. | Refrigeration | Existing | building | 860 | 0.7% | 0.01 | 10 | \$15 | 0% | 0.5 |
| PECO | High R-Value Glass Doors | Base Refrigeration System - Grocery | Misc. | Refrigeration | New | building | 860 | 0.7% | 0.01 | 10 | \$15 | 0% | 0.5 |
| PECO | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Misc. | Refrigeration | Early | Fixture | 373 | 56% | 0.02 | 8 | \$448 | 47% | 0.2 |
| PECO | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Misc. | Refrigeration | New | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 47% | 0.3 |
| PECO | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Misc. | Refrigeration | ROB | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 47% | 0.3 |
| PECO | No-heat glass doors | Standard low-temp reach-in | Misc. | Refrigeration | Existing | building | 860 | 20% | 0.2 | 10 | \$1,353 | 8% | 0.2 |
| PECO | No-heat glass doors | Standard low-temp reach-in | Misc. | Refrigeration | New | building | 860 | 20% | 0.2 | 10 | \$1,353 | 8% | 0.2 |
| PECO | Quick acting freezer doors | Std. Freezer Doors | Misc. | Refrigeration | Existing | building | 3,439 | 13% | 0.1 | 10 | \$796 | 56% | 0.3 |
| PECO | Quick acting freezer doors | Std. Freezer Doors | Misc. | Refrigeration | New | building | 3,439 | 13% | 0.1 | 10 | \$796 | 56% | 0.3 |
| PECO | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Misc. | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 30% | 0.4 |
| PECO | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Misc. | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.6 |
| PECO | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Misc. | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.6 |
| PECO | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 30% | 1.7 |
| PECO | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 3.0 |
| PECO | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 3.0 |
| PECO | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 30% | 1.7 |
| PECO | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 4.0 |
| PECO | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 4.0 |
| PECO | Refrigeration Commissioning | Non-commissioned refrigeration system | Misc. | Refrigeration | Existing | building | 10,030 | 9.5% | 0.10 | 3 | \$3,556 | 85% | 0.0 |
| PECO | Refrigeration Commissioning | Non-commissioned refrigeration system | Misc. | Refrigeration | New | building | 10,030 | 9.5% | 0.10 | 3 | \$3,556 | 85% | 0.0 |
| PECO | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Misc. | Refrigeration | Existing | building | 3,439 | 30% | 0.3 | 4 | \$80 | 22% | 3.4 |
| PECO | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Misc. | Refrigeration | Existing | building | 5,731 | 6.2% | 0.06 | 4 | \$117 | 22% | 0.7 |
| PECO | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Misc. | Refrigeration | New | building | 3,439 | 30% | 0.3 | 4 | \$80 | 22% | 3.4 |
| PECO | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Misc. | Refrigeration | New | building | 5,731 | 6.2% | 0.06 | 4 | \$117 | 22% | 0.7 |
| PECO | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Misc. | Refrigeration | Existing | building | 3,439 | 5.8% | 0.06 | 11 | \$119 | 79% | 1.1 |
| PECO | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Misc. | Refrigeration | New | building | 3,439 | 5.8% | 0.06 | 11 | \$119 | 79% | 1.1 |
| PECO | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Misc. | Refrigeration | Existing | building | 5,731 | 4.5% | 0.05 | 11 | \$119 | 79% | 1.2 |
| PECO | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Misc. | Refrigeration | New | building | 5,731 | 4.5% | 0.05 | 11 | \$119 | 79% | 1.2 |
| PECO | Vertical Night Covers | Display cases w/out night covers-High Temperature | Misc. | Refrigeration | Existing | building | 860 | 0.6% | 0.01 | 5 | \$50 | 9% | 0.1 |
| PECO | Vertical Night Covers | Display cases w/out night covers-High Temperature | Misc. | Refrigeration | New | building | 860 | 0.6% | 0.01 | 5 | \$50 | 9% | 0.1 |
| PECO | VSD Controlled Compressor | Compressor w/out VSD | Misc. | Refrigeration | Early | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.2 |
| PECO | VSD Controlled Compressor | Compressor w/out VSD | Misc. | Refrigeration | New | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.2 |
| PECO | VSD Controlled Compressor | Compressor w/out VSD | Misc. | Refrigeration | ROB | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.2 |
| PECO | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Misc. | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$269 | 35% | 0.9 |
| PECO | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Misc. | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$269 | 35% | 0.9 |
| PECO | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Misc. | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.2 |
| PECO | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Misc. | Refrigeration | New | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 3.0 |
| PECO | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Misc. | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.2 |
| PECO | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Misc. | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 3.0 |
| PECO | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 35% | 2.4 |
| PECO | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 35% | 2.3 |
| PECO | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 5.2 |
| PECO | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.9 |
| PECO | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 5.2 |
| PECO | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.9 |
| PECO | Adding reflective roof treatment | Std color roof | Misc. | Space Heating | Existing | building | 2,617 | 7.1% | 0.07 | 6 | \$12,806 | 82% | 0.0 |
| PECO | Adding reflective roof treatment | Std color roof | Misc. | Space Heating | New | building | 2,617 | 7.1% | 0.07 | 6 | \$12,806 | 82% | 0.0 |
| PECO | Adding window shade film | No shade film | Misc. | Space Heating | Existing | building | 2,617 | 1.3% | 0.4 | 10 | \$32 | 13% | 9.6 |
| PECO | Adding window shade film | No shade film | Misc. | Space Heating | New | building | 2,617 | 1.3% | 0.4 | 10 | \$32 | 13% | 9.6 |
| PECO | Adding window shade screen | No shade screen | Misc. | Space Heating | Existing | building | 2,617 | 1.1% | 0.01 | 10 | \$12 | 13% | 1.5 |
| PECO | Adding window shade screen | No shade screen | Misc. | Space Heating | New | building | 2,617 | 1.1% | 0.01 | 10 | \$12 | 13% | 1.5 |
| PECO | Automated control system | Manual Controls | Misc. | Space Heating | Existing | building | 2,617 | 17% | 0.2 | 15 | \$2,865 | 51% | 0.1 |
| PECO | Automated control system | Manual Controls | Misc. | Space Heating | New | building | 2,617 | 17% | 0.2 | 15 | \$2,865 | 94% | 0.1 |
| PECO | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Misc. | Space Heating | Existing | building | 2,617 | 4.9% | 0.05 | 15 | \$17,130 | 71% | 0.0 |
| PECO | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Misc. | Space Heating | New | building | 2,617 | 1.7% | 0.02 | 15 | \$16,283 | 94% | 0.0 |
| PECO | Duct Insulation, Add R8 | No Insulation | Misc. | Space Heating | Existing | building | 2,617 | 1.4% | 0.04 | 15 | \$21 | 20% | 2.9 |
| PECO | Duct Insulation, Add R8 | No Insulation | Misc. | Space Heating | New | building | 2,617 | 1.4% | 0.04 | 15 | \$21 | 10% | 2.9 |
| PECO | Efficient Unit Heating System | Existing Unit Heaters in PA | Misc. | Space Heating | Early | heater | 27,442 | 23% | 0.05 | 15 | \$3,289 | 83% | 1.0 |
| PECO | Efficient Unit Heating System | Std. Unit Heater | Misc. | Space Heating | New | heater | 24,355 | 13% | 0.03 | 15 | \$1,991 | 83% | 0.8 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|--|--|---------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Efficient Unit Heating System | Std. Unit Heater | Misc. | Space Heating | ROB | heater | 24,355 | 13% | 0.03 | 15 | \$1,991 | 83% | 0.8 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Misc. | Space Heating | Existing | building | 2,617 | 7.1% | 0.07 | 15 | \$11,607 | 25% | 0.0 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Misc. | Space Heating | New | building | 2,617 | 7.1% | 0.07 | 15 | \$11,607 | 35% | 0.0 |
| PECO | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Misc. | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 1.1 |
| PECO | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Misc. | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 1.1 |
| PECO | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Misc. | Space Heating | Existing | building | 2,617 | 2.2% | 0.02 | 10 | \$7,735 | 81% | 0.0 |
| PECO | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Misc. | Space Heating | New | building | 2,617 | 2.2% | 0.02 | 10 | \$7,735 | 81% | 0.0 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Misc. | Space Heating | Existing | building | 2,617 | 3.6% | 0.04 | 11 | \$286 | 49% | 0.2 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Misc. | Space Heating | New | building | 2,617 | 3.1% | 0.03 | 11 | \$146 | 49% | 0.4 |
| PECO | Re-Commissioning (Existing Construction) | No Re-Commissioning | Misc. | Space Heating | Existing | building | 2,617 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |
| PECO | VFD on Cooling Tower Fan | Motor w/out VFD | Misc. | Space Heating | Early | motor | 18,724 | 70% | 0.1 | 15 | \$2,843 | 88% | 2.5 |
| PECO | VFD on Cooling Tower Fan | Motor w/out VFD | Misc. | Space Heating | New | motor | 18,373 | 72% | 0.1 | 15 | \$2,843 | 88% | 2.5 |
| PECO | VFD on Cooling Tower Fan | Motor w/out VFD | Misc. | Space Heating | ROB | motor | 18,373 | 72% | 0.1 | 15 | \$2,843 | 88% | 2.5 |
| PECO | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Misc. | Space Heating | Existing | building | 2,617 | 14% | 0.1 | 15 | \$5,133 | 26% | 0.1 |
| PECO | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Misc. | Space Heating | New | building | 2,617 | 0.4% | 0.00 | 15 | \$3,937 | 94% | 0.0 |
| PECO | Green LED Traffic Light | Green Incandescent Traffic Light | Misc. | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 0% | 1.3 |
| PECO | Green LED Traffic Light | Green Incandescent Traffic Light | Misc. | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.2 |
| PECO | Green LED Traffic Light | Green Incandescent Traffic Light | Misc. | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.2 |
| PECO | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Misc. | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 0% | 3.2 |
| PECO | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Misc. | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| PECO | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Misc. | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| PECO | Induction Street Lighting | One 100W HPS Street Light Fixture | Misc. | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 0% | 0.3 |
| PECO | Induction Street Lighting | One 100W HPS Street Light Fixture | Misc. | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.8 |
| PECO | Induction Street Lighting | One 100W HPS Street Light Fixture | Misc. | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.8 |
| PECO | LED Street Lighting | One 100W HPS Street Light | Misc. | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 0% | 0.2 |
| PECO | LED Street Lighting | One 100W HPS Street Light | Misc. | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| PECO | LED Street Lighting | One 100W HPS Street Light | Misc. | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| PECO | Red LED Traffic Light | One Red Incandescent Traffic Light | Misc. | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 0% | 1.7 |
| PECO | Red LED Traffic Light | One Red Incandescent Traffic Light | Misc. | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| PECO | Red LED Traffic Light | One Red Incandescent Traffic Light | Misc. | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| PECO | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Misc. | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 0% | 0.1 |
| PECO | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Misc. | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| PECO | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Misc. | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| PECO | Demand controlled Circulating Systems | Constant circulation system | Misc. | Water Heating | Existing | building | 1,344 | 20% | 0.2 | 15 | \$244 | 59% | 1.5 |
| PECO | Demand controlled Circulating Systems | Constant circulation system | Misc. | Water Heating | New | building | 1,344 | 20% | 0.2 | 15 | \$244 | 59% | 1.5 |
| PECO | Drainwater Heat Recovery Water Heater | No heat recovery | Misc. | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 2.0 |
| PECO | Drainwater Heat Recovery Water Heater | No heat recovery | Misc. | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 2.0 |
| PECO | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Misc. | Water Heating | Existing | building | 1,344 | 5.9% | 0.06 | 12 | \$14 | 85% | 6.4 |
| PECO | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Misc. | Water Heating | New | building | 1,344 | 5.9% | 0.06 | 12 | \$4.0 | 85% | 22.5 |
| PECO | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Misc. | Water Heating | Early | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 3.2 |
| PECO | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Misc. | Water Heating | Early | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 3.2 |
| PECO | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Misc. | Water Heating | New | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 3.2 |
| PECO | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Misc. | Water Heating | New | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 3.2 |
| PECO | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Misc. | Water Heating | ROB | water heater | 10,350 | 65% | 1.2 | 10 | \$1,187 | 68% | 3.0 |
| PECO | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Misc. | Water Heating | ROB | water heater | 10,350 | 65% | 1.2 | 10 | \$1,187 | 68% | 3.0 |
| PECO | Heat Recovery Unit | Base Water Heating | Misc. | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.7 |
| PECO | Heat Recovery Unit | Base Water Heating | Misc. | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.7 |
| PECO | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Misc. | Water Heating | Early | water heater | 3,246 | 5.9% | 0.03 | 15 | \$307 | 79% | 0.5 |
| PECO | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Misc. | Water Heating | Early | water heater | 3,246 | 5.9% | 0.03 | 15 | \$307 | 79% | 0.5 |
| PECO | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Misc. | Water Heating | New | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.8 |
| PECO | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Misc. | Water Heating | New | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.8 |
| PECO | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Misc. | Water Heating | ROB | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.8 |
| PECO | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Misc. | Water Heating | ROB | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.8 |
| PECO | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Misc. | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$466 | 81% | 41.5 |
| PECO | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Misc. | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 21.6 |
| PECO | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Misc. | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 21.6 |
| PECO | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Misc. | Water Heating | Existing | building | 1,344 | 2.7% | 0.03 | 13 | \$5.4 | 68% | 8.1 |
| PECO | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Misc. | Water Heating | New | building | 1,344 | 2.7% | 0.03 | 13 | \$5.4 | 0% | 8.1 |
| PECO | Hot Water Circulation Pump Time-Clock | Constant circulation system | Misc. | Water Heating | Existing | building | 1,344 | 5.3% | 0.05 | 10 | \$5.4 | 72% | 13.0 |
| PECO | Hot Water Circulation Pump Time-Clock | Constant circulation system | Misc. | Water Heating | New | building | 1,344 | 5.3% | 0.05 | 10 | \$5.4 | 72% | 13.0 |
| PECO | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Misc. | Water Heating | Existing | building | 1,236 | 2.9% | 0.03 | 7 | \$22 | 78% | 1.3 |
| PECO | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Misc. | Water Heating | New | building | 1,344 | 0.8% | 0.01 | 7 | \$0.5 | 78% | 15.8 |
| PECO | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Misc. | Water Heating | Existing | building | 1,344 | 13% | 0.1 | 5 | \$300 | 0% | 0.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|--|---|---------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Misc. | Water Heating | New | building | 1,344 | 9.3% | 0.09 | 5 | \$194 | 0% | 0.4 |
| PECO | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Misc. | Water Heating | Existing | building | 1,344 | 6.5% | 0.07 | 9 | \$25 | 2% | 3.2 |
| PECO | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Misc. | Water Heating | New | building | 1,344 | 6.5% | 0.07 | 9 | \$6.0 | 2% | 13.2 |
| PECO | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Misc. | Water Heating | Early | water heater | 10,645 | 52% | 0.4 | 15 | \$6,222 | 32% | 0.6 |
| PECO | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Misc. | Water Heating | New | water heater | 10,350 | 51% | 0.4 | 15 | \$6,222 | 32% | 0.5 |
| PECO | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Misc. | Water Heating | ROB | water heater | 10,350 | 51% | 0.4 | 15 | \$6,222 | 32% | 0.5 |
| PECO | Ultrasonic Faucet Control | Manual Faucet Control | Misc. | Water Heating | Existing | building | 1,344 | 3.0% | 0.03 | 10 | \$233 | 77% | 0.2 |
| PECO | Ultrasonic Faucet Control | Manual Faucet Control | Misc. | Water Heating | New | building | 1,344 | 3.0% | 0.03 | 10 | \$233 | 77% | 0.2 |
| PECO | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Misc. | Water Heating | Existing | building | 1,344 | 2.2% | 0.02 | 4 | \$28 | 83% | 0.5 |
| PECO | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Misc. | Water Heating | New | building | 1,344 | 2.3% | 0.02 | 4 | \$28 | 83% | 0.5 |
| PECO | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Office | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.2 |
| PECO | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Office | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.2 |
| PECO | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Office | Cooking | Early | steamer | 51 | 46% | 0.00 | 12 | \$5,053 | 81% | 0.0 |
| PECO | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Office | Cooking | New | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| PECO | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Office | Cooking | ROB | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| PECO | Electric combination oven (Energy Star) | Standard Oven | Office | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 3.3 |
| PECO | Electric combination oven (Energy Star) | Standard Oven | Office | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 3.3 |
| PECO | Electric Convection Oven | Conventional convection oven w/ 65% efficiency | Office | Cooking | Early | oven | 8,641 | 37% | 0.6 | 12 | \$4,119 | 81% | 0.5 |
| PECO | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Office | Cooking | New | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.8 |
| PECO | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Office | Cooking | ROB | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.8 |
| PECO | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Office | Cooking | Early | fryer | 6,105 | 23% | 0.3 | 12 | \$9,241 | 86% | 0.1 |
| PECO | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Office | Cooking | New | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.4 |
| PECO | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Office | Cooking | ROB | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.4 |
| PECO | High Efficiency Griddle (ENERGY STAR) | Efficiency code minimum griddle (70% eff) | Office | Cooking | Early | griddle | 11,317 | 65% | 1.4 | 12 | \$4,977 | 86% | 1.0 |
| PECO | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Office | Cooking | New | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.3 |
| PECO | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Office | Cooking | ROB | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.3 |
| PECO | High Efficiency Induction Cooking | Standard Cooking | Office | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.2 |
| PECO | High Efficiency Induction Cooking | Standard Cooking | Office | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.2 |
| PECO | Active chilled beam cooling | No Active Chilled beam cooling | Office | Cooling Central | New | building | 1,197 | 5.3% | 0.05 | 15 | \$313 | 72% | 0.3 |
| PECO | Adding reflective roof treatment | Std color roof | Office | Cooling Central | Existing | building | 1,260 | 7.0% | 0.07 | 6 | \$12,337 | 82% | 0.0 |
| PECO | Adding reflective roof treatment | Std color roof | Office | Cooling Central | New | building | 1,260 | 7.0% | 0.07 | 6 | \$12,337 | 82% | 0.0 |
| PECO | Adding window shade film | No shade film | Office | Cooling Central | Existing | building | 1,260 | 1.3% | 0.4 | 10 | \$15 | 12% | 19.5 |
| PECO | Adding window shade film | No shade film | Office | Cooling Central | New | building | 1,260 | 1.3% | 0.4 | 10 | \$15 | 13% | 19.5 |
| PECO | Adding window shade screen | No shade screen | Office | Cooling Central | Existing | building | 1,260 | 1.1% | 0.01 | 10 | \$5.9 | 13% | 2.3 |
| PECO | Adding window shade screen | No shade screen | Office | Cooling Central | New | building | 1,260 | 1.0% | 0.01 | 10 | \$5.9 | 13% | 2.2 |
| PECO | Automated control system | Manual Controls | Office | Cooling Central | Existing | building | 1,260 | 17% | 0.2 | 15 | \$1,380 | 51% | 0.2 |
| PECO | Automated control system | Manual Controls | Office | Cooling Central | New | building | 1,260 | 17% | 0.2 | 15 | \$1,380 | 94% | 0.2 |
| PECO | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Office | Cooling Central | Existing | building | 1,260 | 4.9% | 0.05 | 15 | \$16,437 | 71% | 0.0 |
| PECO | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Office | Cooling Central | New | building | 1,260 | 2.3% | 0.02 | 15 | \$15,624 | 94% | 0.0 |
| PECO | Chilled Water Reset, Optimizer System for Chiller(s) | No Chilled Water Reset | Office | Cooling Central | Existing | building | 1,260 | 3.7% | 0.04 | 10 | \$5.8 | 69% | 8.5 |
| PECO | Chiller Tune Up Diagnostics | No Chiller Tune Up | Office | Cooling Central | Existing | building | 1,260 | 2.3% | 0.02 | 10 | \$1.3 | 59% | 23.7 |
| PECO | Chiller Tuneup/Diagnostics | No tuneup | Office | Cooling Central | Existing | building | 1,260 | 8.0% | 0.08 | 10 | \$3,219 | 59% | 0.0 |
| PECO | Chiller Tuneup/Diagnostics | No tuneup | Office | Cooling Central | New | building | 1,260 | 8.0% | 0.08 | 10 | \$3,219 | 59% | 0.0 |
| PECO | Cooling Tower Optimization | No Cooling Tower Optimization | Office | Cooling Central | Existing | building | 1,260 | 15% | 0.1 | 10 | \$17 | 73% | 11.2 |
| PECO | Duct Insulation, Add R8 | No Insulation | Office | Cooling Central | Existing | building | 1,260 | 1.4% | 0.04 | 15 | \$10 | 20% | 5.2 |
| PECO | Duct Insulation, Add R8 | No Insulation | Office | Cooling Central | New | building | 1,260 | 1.4% | 0.04 | 15 | \$10 | 10% | 5.2 |
| PECO | Facility Commissioning | No Facility Commissioning | Office | Cooling Central | New | building | 1,260 | 16% | 0.2 | 10 | \$47,410 | 89% | 0.0 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Office | Cooling Central | Existing | building | 1,260 | 7.0% | 0.07 | 15 | \$5,591 | 25% | 0.0 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Office | Cooling Central | New | building | 1,260 | 7.0% | 0.07 | 15 | \$5,591 | 35% | 0.0 |
| PECO | Hi Eff HVAC System Design | No HVAC Design | Office | Cooling Central | New | building | 1,260 | 0.8% | 0.01 | 10 | \$1,074 | 51% | 0.0 |
| PECO | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Office | Cooling Central | Early | ton | 5,730 | 24% | 0.3 | 15 | \$108,550 | 88% | 0.0 |
| PECO | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Office | Cooling Central | New | ton | 4,684 | 6.7% | 0.07 | 15 | \$12,927 | 88% | 0.0 |
| PECO | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Office | Cooling Central | ROB | ton | 4,684 | 6.7% | 0.07 | 15 | \$12,927 | 88% | 0.0 |
| PECO | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Office | Cooling Central | Early | ton | 8,562 | 23% | 0.5 | 15 | \$140,105 | 88% | 0.0 |
| PECO | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Office | Cooling Central | New | ton | 6,888 | 4.9% | 0.08 | 15 | \$9,336 | 88% | 0.0 |
| PECO | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Office | Cooling Central | ROB | ton | 6,888 | 4.9% | 0.08 | 15 | \$9,336 | 88% | 0.0 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Office | Cooling Central | Early | ton | 70,089 | 26% | 4.1 | 15 | \$105,354 | 88% | 0.1 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Office | Cooling Central | New | ton | 61,068 | 15% | 2.1 | 15 | \$30,530 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Office | Cooling Central | ROB | ton | 61,068 | 15% | 2.1 | 15 | \$30,530 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Office | Cooling Central | Early | ton | 104,974 | 23% | 5.4 | 15 | \$154,107 | 88% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|--|--|---------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Office | Cooling Central | New | ton | 96,432 | 16% | 3.5 | 15 | \$27,646 | 88% | 0.4 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Office | Cooling Central | ROB | ton | 104,974 | 23% | 5.4 | 15 | \$27,646 | 88% | 0.7 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Office | Cooling Central | Early | ton | 174,342 | 23% | 8.9 | 15 | \$302,924 | 88% | 0.1 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Office | Cooling Central | New | ton | 157,792 | 14% | 5.1 | 15 | \$115,432 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Office | Cooling Central | ROB | ton | 174,342 | 23% | 8.9 | 15 | \$115,432 | 88% | 0.3 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Office | Cooling Central | Early | ton | 209,211 | 23% | 10.6 | 15 | \$350,154 | 88% | 0.1 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Office | Cooling Central | New | ton | 189,351 | 14% | 6.2 | 15 | \$120,406 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Office | Cooling Central | ROB | ton | 209,211 | 23% | 10.6 | 15 | \$120,406 | 88% | 0.3 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Office | Cooling Central | Early | ton | 46,373 | 29% | 3.1 | 15 | \$83,632 | 88% | 0.1 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Office | Cooling Central | New | ton | 36,008 | 8.9% | 0.7 | 15 | \$40,211 | 88% | 0.1 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Office | Cooling Central | ROB | ton | 46,373 | 29% | 3.1 | 15 | \$40,211 | 88% | 0.3 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Office | Cooling Central | Early | ton | 79,681 | 35% | 6.2 | 15 | \$132,173 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Office | Cooling Central | New | ton | 59,428 | 13% | 1.7 | 15 | \$39,556 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Office | Cooling Central | ROB | ton | 59,428 | 13% | 1.7 | 15 | \$39,556 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Office | Cooling Central | Early | ton | 133,034 | 39% | 11.7 | 15 | \$187,029 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Office | Cooling Central | New | ton | 94,851 | 15% | 3.1 | 15 | \$33,554 | 88% | 0.3 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Office | Cooling Central | ROB | ton | 133,034 | 39% | 11.7 | 15 | \$33,554 | 88% | 1.2 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Office | Cooling Central | Early | ton | 23,279 | 30% | 1.6 | 15 | \$32,398 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Office | Cooling Central | New | ton | 18,443 | 11% | 0.5 | 15 | \$7,188 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Office | Cooling Central | ROB | ton | 23,279 | 30% | 1.6 | 15 | \$7,188 | 88% | 0.8 |
| PECO | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Office | Cooling Central | Existing | building | 1,260 | 2.8% | 0.03 | 10 | \$5,350 | 81% | 0.0 |
| PECO | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Office | Cooling Central | New | building | 1,260 | 2.8% | 0.03 | 10 | \$5,350 | 81% | 0.0 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Office | Cooling Central | Existing | building | 1,260 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.1 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Office | Cooling Central | New | building | 1,260 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.2 |
| PECO | Re-Commissioning (Existing Construction) | No Re-Commissioning | Office | Cooling Central | Existing | building | 1,260 | 16% | 0.2 | 5 | \$7,777 | 86% | 0.0 |
| PECO | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Office | Cooling Central | Existing | building | 1,260 | 15% | 0.2 | 15 | \$5,028 | 26% | 0.1 |
| PECO | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Office | Cooling Central | New | building | 1,260 | 0.5% | 0.01 | 15 | \$3,857 | 94% | 0.0 |
| PECO | <65k BTU/hr 14 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Office | Cooling Unitary | Early | ton | 1,260 | 16% | 0.1 | 15 | \$1,545 | 29% | 0.2 |
| PECO | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Office | Cooling Unitary | New | ton | 1,141 | 7.1% | 0.05 | 15 | \$339 | 29% | 0.3 |
| PECO | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Office | Cooling Unitary | ROB | ton | 1,141 | 7.1% | 0.05 | 15 | \$339 | 29% | 0.3 |
| PECO | <65k BTU/hr 15 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Office | Cooling Unitary | Early | ton | 1,260 | 22% | 0.2 | 15 | \$1,821 | 30% | 0.2 |
| PECO | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Office | Cooling Unitary | New | ton | 1,141 | 13% | 0.10 | 15 | \$714 | 30% | 0.3 |
| PECO | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Office | Cooling Unitary | ROB | ton | 1,141 | 13% | 0.10 | 15 | \$714 | 30% | 0.3 |
| PECO | <65k BTU/hr 16 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Office | Cooling Unitary | Early | ton | 1,260 | 26% | 0.2 | 15 | \$2,098 | 31% | 0.2 |
| PECO | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Office | Cooling Unitary | New | ton | 1,141 | 19% | 0.1 | 15 | \$1,089 | 31% | 0.2 |
| PECO | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Office | Cooling Unitary | ROB | ton | 1,141 | 19% | 0.1 | 15 | \$1,089 | 31% | 0.2 |
| PECO | >760k min 10.2 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Office | Cooling Unitary | Early | ton | 31,872 | 3.7% | 0.8 | 15 | \$68,066 | 56% | 0.0 |
| PECO | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Office | Cooling Unitary | New | ton | 32,280 | 4.9% | 1.0 | 15 | \$6,231 | 56% | 0.3 |
| PECO | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Office | Cooling Unitary | ROB | ton | 32,280 | 4.9% | 1.0 | 15 | \$6,231 | 56% | 0.3 |
| PECO | 135-240k min 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Office | Cooling Unitary | Early | ton | 7,842 | 18% | 0.9 | 15 | \$18,135 | 79% | 0.1 |
| PECO | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Office | Cooling Unitary | New | ton | 7,134 | 10.0% | 0.5 | 15 | \$1,948 | 79% | 0.5 |
| PECO | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Office | Cooling Unitary | ROB | ton | 7,134 | 10.0% | 0.5 | 15 | \$1,948 | 79% | 0.5 |
| PECO | 240k-760k min 11 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Office | Cooling Unitary | Early | ton | 20,968 | 9.0% | 1.2 | 15 | \$44,809 | 66% | 0.1 |
| PECO | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Office | Cooling Unitary | New | ton | 21,020 | 9.3% | 1.3 | 15 | \$4,813 | 66% | 0.5 |
| PECO | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Office | Cooling Unitary | ROB | ton | 21,020 | 9.3% | 1.3 | 15 | \$4,813 | 66% | 0.5 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---|--|---------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | 65k-135k BTU/hr 12 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Office | Cooling Unitary | Early | ton | 4,623 | 17% | 0.5 | 15 | \$10,946 | 86% | 0.1 |
| PECO | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Office | Cooling Unitary | New | ton | 4,120 | 6.7% | 0.2 | 15 | \$1,392 | 86% | 0.2 |
| PECO | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Office | Cooling Unitary | ROB | ton | 4,120 | 6.7% | 0.2 | 15 | \$1,392 | 86% | 0.2 |
| PECO | Adding reflective roof treatment | Std color roof | Office | Cooling Unitary | Existing | building | 21,050 | 7.0% | 0.07 | 6 | \$12,337 | 82% | 0.0 |
| PECO | Adding reflective roof treatment | Std color roof | Office | Cooling Unitary | New | building | 21,050 | 7.0% | 0.07 | 6 | \$12,337 | 82% | 0.0 |
| PECO | Adding window shade film | No shade film | Office | Cooling Unitary | Existing | building | 21,050 | 1.3% | 0.4 | 10 | \$256 | 12% | 1.6 |
| PECO | Adding window shade film | No shade film | Office | Cooling Unitary | New | building | 21,050 | 1.3% | 0.4 | 10 | \$256 | 13% | 1.6 |
| PECO | Adding window shade screen | No shade screen | Office | Cooling Unitary | Existing | building | 21,050 | 1.1% | 0.01 | 10 | \$99 | 12% | 1.0 |
| PECO | Adding window shade screen | No shade screen | Office | Cooling Unitary | New | building | 21,050 | 1.1% | 0.01 | 10 | \$99 | 13% | 1.0 |
| PECO | Automated control system | Manual Controls | Office | Cooling Unitary | Existing | building | 21,050 | 17% | 0.2 | 15 | \$23,045 | 51% | 0.1 |
| PECO | Automated control system | Manual Controls | Office | Cooling Unitary | New | building | 21,050 | 17% | 0.2 | 15 | \$23,045 | 94% | 0.1 |
| PECO | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Office | Cooling Unitary | Existing | building | 21,050 | 4.9% | 0.05 | 15 | \$16,437 | 71% | 0.0 |
| PECO | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Office | Cooling Unitary | New | building | 21,050 | 2.3% | 0.02 | 15 | \$15,624 | 94% | 0.0 |
| PECO | Duct Insulation, Add R8 | No Insulation | Office | Cooling Unitary | Existing | building | 21,050 | 1.4% | 0.04 | 15 | \$167 | 20% | 1.2 |
| PECO | Duct Insulation, Add R8 | No Insulation | Office | Cooling Unitary | New | building | 21,050 | 1.4% | 0.04 | 15 | \$167 | 10% | 1.2 |
| PECO | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Office | Cooling Unitary | Existing | building | 11,504 | 13% | 0.1 | 1 | \$110 | 73% | 0.7 |
| PECO | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Office | Cooling Unitary | New | building | 11,504 | 13% | 0.1 | 1 | \$110 | 73% | 0.7 |
| PECO | ECM Motors for split systems | Std Shaded Pole Motor | Office | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 3.2 |
| PECO | ECM Motors for split systems | Std Shaded Pole Motor | Office | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 3.2 |
| PECO | Facility Commissioning | No Facility Commissioning | Office | Cooling Unitary | New | building | 21,050 | 16% | 0.2 | 10 | \$624 | 89% | 2.4 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Office | Cooling Unitary | Existing | building | 21,050 | 7.1% | 0.07 | 15 | \$93,374 | 25% | 0.0 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Office | Cooling Unitary | New | building | 21,050 | 7.0% | 0.07 | 15 | \$93,374 | 35% | 0.0 |
| PECO | Hi Eff HVAC System Design | No HVAC Design | Office | Cooling Unitary | New | building | 21,050 | 0.8% | 0.01 | 10 | \$108 | 51% | 0.7 |
| PECO | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Office | Cooling Unitary | Existing | building | 21,050 | 5.0% | 0.05 | 5 | \$225 | 59% | 1.1 |
| PECO | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Office | Cooling Unitary | Existing | building | 21,050 | 2.8% | 0.03 | 10 | \$5,750 | 86% | 0.0 |
| PECO | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Office | Cooling Unitary | New | building | 21,050 | 2.8% | 0.03 | 10 | \$5,750 | 86% | 0.0 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) | Office | Cooling Unitary | Existing | building | 21,050 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.7 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Office | Cooling Unitary | New | building | 21,050 | 1.7% | 0.02 | 11 | \$146 | 49% | 1.2 |
| PECO | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Office | Cooling Unitary | Early | unit | 818 | 19% | 0.04 | 15 | \$849 | 85% | 0.2 |
| PECO | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Office | Cooling Unitary | New | unit | 826 | 20% | 0.04 | 15 | \$356 | 85% | 0.4 |
| PECO | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Office | Cooling Unitary | ROB | unit | 826 | 20% | 0.04 | 15 | \$356 | 85% | 0.4 |
| PECO | Re-Commissioning (Existing Construction) | No Re-Commissioning | Office | Cooling Unitary | Existing | building | 21,050 | 16% | 0.2 | 5 | \$7,777 | 86% | 0.1 |
| PECO | Room AC (w/ louvered sides) | Existing efficiency Room AC in Pennsylvania (2000 Federal Standards) | Office | Cooling Unitary | Early | ton | 1,015 | 13% | 0.03 | 9 | \$348 | 82% | 0.2 |
| PECO | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Office | Cooling Unitary | New | ton | 920 | 4.5% | 0.01 | 9 | \$17 | 82% | 1.3 |
| PECO | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Office | Cooling Unitary | ROB | ton | 920 | 4.5% | 0.01 | 9 | \$17 | 82% | 1.3 |
| PECO | Wall Insualtions (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Office | Cooling Unitary | Existing | building | 21,050 | 15% | 0.2 | 15 | \$5,028 | 26% | 0.4 |
| PECO | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Office | Cooling Unitary | New | building | 21,050 | 0.5% | 0.01 | 15 | \$3,857 | 94% | 0.0 |
| PECO | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Office | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 1.1 |
| PECO | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Office | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.4 |
| PECO | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Office | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.4 |
| PECO | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Office | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 0% | 0.2 |
| PECO | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Office | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| PECO | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Office | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| PECO | LED exterior lighting | 250 Watt Incandescent | Office | Ext. Lighting | ROB | measure | 262 | 83% | 0.05 | 15 | \$104 | 89% | 1.5 |
| PECO | LED exterior lighting | 250 Watt Incandescent | Office | Ext. Lighting | ROB | measure | 277 | 83% | 0.05 | 15 | \$104 | 89% | 1.6 |
| PECO | LED exterior lighting | 250 Watt Incandescent | Office | Ext. Lighting | ROB | measure | 277 | 83% | 0.05 | 15 | \$104 | 89% | 1.6 |
| PECO | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Office | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 53% | 0.3 |
| PECO | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Office | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 53% | 0.2 |
| PECO | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Office | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 53% | 2.6 |
| PECO | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Office | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 53% | 2.0 |
| PECO | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Office | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 53% | 2.6 |
| PECO | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Office | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 53% | 2.0 |
| PECO | Photocell Controls (Outdoor) | Lighting w/ No Controls | Office | Ext. Lighting | Existing | building | 56 | 28% | 0.3 | 8 | \$3,091 | 88% | 0.1 |
| PECO | Photocell Controls (Outdoor) | Lighting w/ No Controls | Office | Ext. Lighting | New | building | 56 | 28% | 0.3 | 8 | \$3,091 | 0% | 0.1 |
| PECO | Adding reflective roof treatment | Std color roof | Office | Heat Pump | Existing | building | 2,367 | 6.9% | 0.07 | 6 | \$12,337 | 82% | 0.0 |
| PECO | Adding reflective roof treatment | Std color roof | Office | Heat Pump | New | building | 2,367 | 6.9% | 0.07 | 6 | \$12,337 | 82% | 0.0 |
| PECO | Adding window shade film | No shade film | Office | Heat Pump | Existing | building | 2,367 | 3.9% | 0.4 | 10 | \$29 | 12% | 11.5 |
| PECO | Adding window shade film | No shade film | Office | Heat Pump | New | building | 2,367 | 3.9% | 0.4 | 10 | \$29 | 12% | 11.5 |
| PECO | Adding window shade screen | No shade screen | Office | Heat Pump | Existing | building | 2,367 | 0.3% | 0.01 | 10 | \$3.7 | 12% | 3.0 |
| PECO | Adding window shade screen | No shade screen | Office | Heat Pump | New | building | 2,367 | 0.3% | 0.01 | 10 | \$3.7 | 12% | 3.0 |
| PECO | Automated control system | Manual Controls | Office | Heat Pump | Existing | building | 2,367 | 17% | 0.2 | 15 | \$2,591 | 51% | 0.2 |
| PECO | Automated control system | Manual Controls | Office | Heat Pump | New | building | 2,367 | 17% | 0.2 | 15 | \$2,591 | 94% | 0.2 |
| PECO | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Office | Heat Pump | Existing | building | 2,367 | 4.9% | 0.05 | 15 | \$16,437 | 71% | 0.0 |
| PECO | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Office | Heat Pump | New | building | 2,367 | 2.3% | 0.02 | 15 | \$15,624 | 94% | 0.0 |
| PECO | Duct Insulation, Add R8 | No Insulation | Office | Heat Pump | Existing | building | 2,367 | 4.0% | 0.04 | 15 | \$19 | 12% | 5.1 |
| PECO | Duct Insulation, Add R8 | No Insulation | Office | Heat Pump | New | building | 2,367 | 4.0% | 0.04 | 15 | \$19 | 6% | 5.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|--|--|---------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Office | Heat Pump | Early | heat pump | 936 | 16% | 0.03 | 15 | \$4,070 | 83% | 0.0 |
| PECO | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Office | Heat Pump | New | heat pump | 852 | 7.2% | 0.01 | 15 | \$1,097 | 83% | 0.0 |
| PECO | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Office | Heat Pump | ROB | heat pump | 852 | 7.2% | 0.01 | 15 | \$1,097 | 83% | 0.0 |
| PECO | Facility Commissioning | No Facility Commissioning | Office | Heat Pump | New | building | 2,367 | 16% | 0.2 | 10 | \$47,410 | 89% | 0.0 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Office | Heat Pump | Existing | building | 2,367 | 7.0% | 0.07 | 15 | \$10,499 | 25% | 0.0 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Office | Heat Pump | New | building | 2,367 | 7.0% | 0.07 | 15 | \$10,499 | 35% | 0.0 |
| PECO | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Office | Heat Pump | Early | heat pump | 10,410 | 26% | 0.6 | 15 | \$91,117 | 19% | 0.0 |
| PECO | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Office | Heat Pump | New | heat pump | 9,676 | 20% | 0.4 | 15 | \$33,927 | 19% | 0.0 |
| PECO | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Office | Heat Pump | ROB | heat pump | 9,676 | 20% | 0.4 | 15 | \$33,927 | 19% | 0.0 |
| PECO | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Office | Heat Pump | Early | heat pump | 10,410 | 26% | 0.6 | 15 | \$58,356 | 19% | 0.0 |
| PECO | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Office | Heat Pump | New | heat pump | 9,676 | 20% | 0.4 | 15 | \$1,167 | 19% | 1.4 |
| PECO | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Office | Heat Pump | ROB | heat pump | 9,676 | 20% | 0.4 | 15 | \$1,167 | 19% | 1.4 |
| PECO | Hi Eff HVAC System Design | No HVAC Design | Office | Heat Pump | New | building | 2,367 | 0.7% | 0.01 | 10 | \$1,074 | 51% | 0.0 |
| PECO | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Office | Heat Pump | Early | heat pump | 2,497 | 21% | 0.1 | 12 | \$4,298 | 81% | 0.1 |
| PECO | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Office | Heat Pump | Early | heat pump | 2,497 | 22% | 0.1 | 12 | \$5,883 | 81% | 0.1 |
| PECO | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Office | Heat Pump | New | heat pump | 2,271 | 13% | 0.07 | 12 | \$852 | 81% | 0.2 |
| PECO | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Office | Heat Pump | New | heat pump | 2,271 | 14% | 0.07 | 12 | \$2,437 | 81% | 0.1 |
| PECO | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Office | Heat Pump | ROB | heat pump | 2,271 | 13% | 0.07 | 12 | \$852 | 81% | 0.2 |
| PECO | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Office | Heat Pump | ROB | heat pump | 2,271 | 14% | 0.07 | 12 | \$2,437 | 81% | 0.1 |
| PECO | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Office | Heat Pump | Existing | building | 2,367 | 2.8% | 0.03 | 10 | \$5,119 | 81% | 0.0 |
| PECO | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) HVAC system w/ Manual Thermostat (Code Min Eff) | Office | Heat Pump | New | building | 2,367 | 2.8% | 0.03 | 10 | \$5,119 | 81% | 0.0 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Office | Heat Pump | Existing | building | 2,367 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.2 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Office | Heat Pump | New | building | 2,367 | 2.1% | 0.02 | 11 | \$146 | 49% | 0.3 |
| PECO | Re-Commissioning (Existing Construction) | No Re-Commissioning | Office | Heat Pump | Existing | building | 2,367 | 16% | 0.2 | 5 | \$7,777 | 86% | 0.0 |
| PECO | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Office | Heat Pump | New | measure | 1,496,631 | 2.0% | 3.4 | 13 | \$188,409 | 43% | 0.1 |
| PECO | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Office | Heat Pump | ROB | measure | 1,496,631 | 2.0% | 3.4 | 13 | \$188,409 | 43% | 0.1 |
| PECO | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Office | Heat Pump | Existing | building | 2,367 | 15% | 0.2 | 15 | \$5,028 | 26% | 0.1 |
| PECO | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Office | Heat Pump | New | building | 2,367 | 0.5% | 0.01 | 15 | \$3,857 | 94% | 0.0 |
| PECO | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Office | Heat Pump | Early | heat pump | 3,624 | 20% | 0.2 | 15 | \$35,347 | 28% | 0.0 |
| PECO | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Office | Heat Pump | New | heat pump | 3,207 | 9.1% | 0.07 | 15 | \$15,739 | 28% | 0.0 |
| PECO | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Office | Heat Pump | ROB | heat pump | 3,207 | 9.1% | 0.07 | 15 | \$15,739 | 28% | 0.0 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Office | High Bay Lighting | Early | Fixture | 483 | 9.6% | 0.01 | 13 | \$850 | 39% | 0.0 |
| PECO | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Office | High Bay Lighting | Early | Fixture | 483 | 9.5% | 0.01 | 13 | \$850 | 28% | 0.0 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Office | High Bay Lighting | Early | Fixture | 745 | 41% | 0.08 | 13 | \$850 | 36% | 0.3 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Office | High Bay Lighting | New | Fixture | 367 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Office | High Bay Lighting | New | Fixture | 342 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Office | High Bay Lighting | New | Fixture | 566 | 41% | 0.06 | 13 | \$397 | 36% | 0.4 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Office | High Bay Lighting | ROB | Fixture | 483 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Office | High Bay Lighting | ROB | Fixture | 450 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Office | High Bay Lighting | ROB | Fixture | 745 | 41% | 0.08 | 13 | \$397 | 36% | 0.6 |
| PECO | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Office | High Bay Lighting | Early | Fixture | 938 | 19% | 0.05 | 13 | \$851 | 38% | 0.2 |
| PECO | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Office | High Bay Lighting | Early | Fixture | 950 | 20% | 0.05 | 13 | \$851 | 38% | 0.2 |
| PECO | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | Early | Fixture | 2,762 | 73% | 0.5 | 13 | \$851 | 38% | 1.7 |
| PECO | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Office | High Bay Lighting | New | Fixture | 713 | 19% | 0.03 | 13 | \$372 | 38% | 0.3 |
| PECO | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | New | Fixture | 2,099 | 73% | 0.4 | 13 | \$383 | 38% | 2.9 |
| PECO | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Office | High Bay Lighting | ROB | Fixture | 938 | 19% | 0.05 | 13 | \$372 | 38% | 0.4 |
| PECO | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | ROB | Fixture | 2,762 | 73% | 0.5 | 13 | \$383 | 38% | 3.9 |
| PECO | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Office | High Bay Lighting | Early | Fixture | 938 | 25% | 0.06 | 13 | \$554 | 29% | 0.3 |
| PECO | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Office | High Bay Lighting | Early | Fixture | 920 | 23% | 0.05 | 13 | \$554 | 28% | 0.3 |
| PECO | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | Early | Fixture | 2,762 | 74% | 0.5 | 13 | \$554 | 36% | 2.7 |
| PECO | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Office | High Bay Lighting | New | Fixture | 713 | 25% | 0.04 | 13 | \$75 | 29% | 1.7 |
| PECO | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | New | Fixture | 2,099 | 74% | 0.4 | 13 | \$86 | 36% | 13.5 |
| PECO | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Office | High Bay Lighting | ROB | Fixture | 938 | 25% | 0.06 | 13 | \$75 | 29% | 2.3 |
| PECO | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | ROB | Fixture | 2,762 | 74% | 0.5 | 13 | \$86 | 36% | 17.8 |
| PECO | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Office | High Bay Lighting | Early | Fixture | 245 | 0.2% | 0.00 | 13 | \$835 | 38% | 0.0 |
| PECO | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Office | High Bay Lighting | Early | Fixture | 527 | 54% | 0.07 | 13 | \$835 | 38% | 0.3 |
| PECO | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Office | High Bay Lighting | New | Fixture | 400 | 54% | 0.05 | 13 | \$382 | 38% | 0.4 |
| PECO | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Office | High Bay Lighting | ROB | Fixture | 527 | 54% | 0.07 | 13 | \$382 | 38% | 0.5 |
| PECO | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Office | High Bay Lighting | Early | Fixture | 1,195 | 18% | 0.05 | 13 | \$487 | 25% | 0.3 |
| PECO | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Office | High Bay Lighting | Early | Fixture | 1,249 | 22% | 0.07 | 13 | \$487 | 28% | 0.4 |
| PECO | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | Early | Fixture | 2,762 | 65% | 0.4 | 13 | \$487 | 36% | 2.7 |
| PECO | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Office | High Bay Lighting | New | Fixture | 908 | 18% | 0.04 | 13 | \$16 | 25% | 7.5 |
| PECO | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | New | Fixture | 2,099 | 65% | 0.3 | 13 | \$18 | 36% | 54.6 |
| PECO | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Office | High Bay Lighting | ROB | Fixture | 1,195 | 18% | 0.05 | 13 | \$16 | 25% | 9.9 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---|---|---------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | ROB | Fixture | 2,762 | 65% | 0.4 | 13 | \$18 | 36% | 71.9 |
| PECO | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Office | High Bay Lighting | Early | Fixture | 1,195 | 1.5% | 0.00 | 13 | \$557 | 19% | 0.0 |
| PECO | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Office | High Bay Lighting | Early | Fixture | 1,230 | 4.3% | 0.01 | 13 | \$557 | 19% | 0.1 |
| PECO | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | Early | Fixture | 2,762 | 57% | 0.4 | 13 | \$557 | 19% | 2.1 |
| PECO | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Office | High Bay Lighting | New | Fixture | 908 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| PECO | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | New | Fixture | 2,099 | 57% | 0.3 | 13 | \$88 | 19% | 10.1 |
| PECO | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Office | High Bay Lighting | ROB | Fixture | 1,195 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.2 |
| PECO | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | ROB | Fixture | 2,762 | 57% | 0.4 | 13 | \$88 | 19% | 13.3 |
| PECO | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Office | High Bay Lighting | Early | Fixture | 507 | 29% | 0.03 | 13 | \$492 | 71% | 0.2 |
| PECO | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Office | High Bay Lighting | Early | Fixture | 424 | 15% | 0.01 | 13 | \$492 | 95% | 0.1 |
| PECO | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Office | High Bay Lighting | Early | Fixture | 630 | 43% | 0.05 | 13 | \$492 | 95% | 0.4 |
| PECO | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Office | High Bay Lighting | Early | Fixture | 584 | 38% | 0.04 | 13 | \$492 | 95% | 0.3 |
| PECO | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Office | High Bay Lighting | New | Fixture | 322 | 15% | 0.01 | 13 | \$25 | 95% | 1.3 |
| PECO | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Office | High Bay Lighting | New | Fixture | 479 | 43% | 0.04 | 13 | \$51 | 95% | 2.7 |
| PECO | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Office | High Bay Lighting | ROB | Fixture | 424 | 15% | 0.01 | 13 | \$25 | 95% | 1.7 |
| PECO | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Office | High Bay Lighting | ROB | Fixture | 630 | 43% | 0.05 | 13 | \$51 | 95% | 3.5 |
| PECO | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Office | High Bay Lighting | Early | lamp | 86 | 16% | 0.00 | 12 | \$7.7 | 99% | 1.2 |
| PECO | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Office | High Bay Lighting | New | lamp | 51 | 13% | 0.00 | 12 | \$1.6 | 91% | 2.7 |
| PECO | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Office | High Bay Lighting | ROB | lamp | 82 | 13% | 0.00 | 12 | \$1.6 | 91% | 4.4 |
| PECO | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Office | High Bay Lighting | Early | Fixture | 2,826 | 23% | 0.2 | 13 | \$613 | 5% | 0.8 |
| PECO | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Office | High Bay Lighting | Early | Fixture | 2,220 | 1.6% | 0.01 | 13 | \$613 | 28% | 0.0 |
| PECO | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Office | High Bay Lighting | Early | Fixture | 5,524 | 60% | 0.8 | 13 | \$613 | 18% | 4.0 |
| PECO | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Office | High Bay Lighting | New | Fixture | 2,148 | 23% | 0.1 | 13 | \$96 | 5% | 3.8 |
| PECO | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Office | High Bay Lighting | ROB | Fixture | 2,826 | 23% | 0.2 | 13 | \$96 | 5% | 4.9 |
| PECO | Auto Off Time Switch | Lighting w/ No Controls | Office | High Bay Lighting | Existing | building | 401 | 24% | 0.2 | 8 | \$628 | 13% | 0.3 |
| PECO | Auto Off Time Switch | Lighting w/ No Controls | Office | High Bay Lighting | New | building | 401 | 6.9% | 0.07 | 8 | \$628 | 0% | 0.1 |
| PECO | Central Lighting Control System | Lighting w/ No Controls | Office | High Bay Lighting | Existing | building | 401 | 38% | 0.4 | 8 | \$628 | 13% | 0.5 |
| PECO | Central Lighting Control System | Lighting w/ No Controls | Office | High Bay Lighting | New | building | 401 | 14% | 0.1 | 8 | \$628 | 13% | 0.2 |
| PECO | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Office | High Bay Lighting | New | building | 401 | 10% | 0.1 | 15 | \$28,258 | 32% | 0.0 |
| PECO | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Office | High Bay Lighting | New | building | 401 | 15% | 0.2 | 15 | \$70,645 | 32% | 0.0 |
| PECO | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Office | High Bay Lighting | New | building | 401 | 30% | 0.3 | 15 | \$101,258 | 32% | 0.0 |
| PECO | Indoor Daylight Sensors | Lighting w/ No Controls | Office | High Bay Lighting | Existing | building | 401 | 28% | 0.3 | 8 | \$3,091 | 13% | 0.1 |
| PECO | Indoor Daylight Sensors | Lighting w/ No Controls | Office | High Bay Lighting | New | building | 401 | 4.1% | 0.04 | 8 | \$3,091 | 0% | 0.0 |
| PECO | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Office | High Bay Lighting | Early | Fixture | 2,826 | 92% | 0.7 | 13 | \$1,916 | 95% | 1.0 |
| PECO | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | Early | Fixture | 5,524 | 96% | 1.3 | 13 | \$1,916 | 95% | 2.1 |
| PECO | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Office | High Bay Lighting | New | Fixture | 2,148 | 92% | 0.5 | 13 | \$1,468 | 95% | 1.0 |
| PECO | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | New | Fixture | 4,198 | 96% | 1.0 | 13 | \$1,149 | 95% | 2.6 |
| PECO | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Office | High Bay Lighting | ROB | Fixture | 2,826 | 92% | 0.7 | 13 | \$1,468 | 95% | 1.3 |
| PECO | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | ROB | Fixture | 5,524 | 96% | 1.3 | 13 | \$1,149 | 95% | 3.4 |
| PECO | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Office | High Bay Lighting | Early | Fixture | 938 | 67% | 0.2 | 13 | \$960 | 95% | 0.5 |
| PECO | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Office | High Bay Lighting | Early | Fixture | 2,762 | 89% | 0.6 | 13 | \$960 | 95% | 1.9 |
| PECO | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Office | High Bay Lighting | Early | Fixture | 758 | 59% | 0.1 | 13 | \$960 | 95% | 0.3 |
| PECO | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Office | High Bay Lighting | New | Fixture | 713 | 67% | 0.1 | 13 | \$480 | 95% | 0.7 |
| PECO | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Office | High Bay Lighting | New | Fixture | 2,099 | 89% | 0.5 | 13 | \$491 | 95% | 2.8 |
| PECO | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Office | High Bay Lighting | New | Fixture | 576 | 59% | 0.08 | 13 | \$406 | 95% | 0.6 |
| PECO | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Office | High Bay Lighting | ROB | Fixture | 938 | 67% | 0.2 | 13 | \$480 | 95% | 1.0 |
| PECO | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Office | High Bay Lighting | ROB | Fixture | 2,762 | 89% | 0.6 | 13 | \$491 | 95% | 3.7 |
| PECO | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Office | High Bay Lighting | ROB | Fixture | 758 | 59% | 0.1 | 13 | \$406 | 95% | 0.8 |
| PECO | Occupancy Sensor | Lighting w/ No Controls | Office | High Bay Lighting | Existing | building | 401 | 24% | 0.2 | 8 | \$946 | 12% | 0.2 |
| PECO | Occupancy Sensor | Lighting w/ No Controls | Office | High Bay Lighting | New | building | 401 | 6.9% | 0.07 | 8 | \$946 | 0% | 0.1 |
| PECO | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Office | High Bay Lighting | Existing | building | 401 | 28% | 0.3 | 8 | \$3,091 | 12% | 0.1 |
| PECO | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Office | High Bay Lighting | New | building | 401 | 4.0% | 0.04 | 8 | \$3,091 | 0% | 0.0 |
| PECO | Time Clock Control | Lighting w/ No Controls | Office | High Bay Lighting | Existing | building | 401 | 28% | 0.3 | 8 | \$628 | 13% | 0.4 |
| PECO | Time Clock Control | Lighting w/ No Controls | Office | High Bay Lighting | New | building | 401 | 4.1% | 0.04 | 8 | \$628 | 0% | 0.1 |
| PECO | Auto Off Time Switch | Lighting w/ No Controls | Office | Lin. Fluor. Lighting | Existing | building | 11,162 | 24% | 0.2 | 8 | \$628 | 13% | 1.7 |
| PECO | Auto Off Time Switch | Lighting w/ No Controls | Office | Lin. Fluor. Lighting | New | building | 11,162 | 6.9% | 0.07 | 8 | \$628 | 0% | 0.5 |
| PECO | Central Lighting Control System | Lighting w/ No Controls | Office | Lin. Fluor. Lighting | Existing | building | 11,162 | 38% | 0.4 | 8 | \$628 | 12% | 2.7 |
| PECO | Central Lighting Control System | Lighting w/ No Controls | Office | Lin. Fluor. Lighting | New | building | 11,162 | 14% | 0.1 | 8 | \$628 | 12% | 1.0 |
| PECO | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Office | Lin. Fluor. Lighting | New | building | 11,162 | 10% | 0.1 | 15 | \$28,258 | 32% | 0.0 |
| PECO | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Office | Lin. Fluor. Lighting | New | building | 11,162 | 15% | 0.2 | 15 | \$70,645 | 32% | 0.0 |
| PECO | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Office | Lin. Fluor. Lighting | New | building | 11,162 | 30% | 0.3 | 15 | \$101,258 | 32% | 0.0 |
| PECO | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Office | Lin. Fluor. Lighting | Early | Lamp | 172 | 38% | 0.01 | 12 | \$7.3 | 94% | 5.8 |
| PECO | Indoor Daylight Sensors | Lighting w/ No Controls | Office | Lin. Fluor. Lighting | Existing | building | 11,162 | 28% | 0.3 | 8 | \$3,091 | 13% | 0.4 |
| PECO | Indoor Daylight Sensors | Lighting w/ No Controls | Office | Lin. Fluor. Lighting | New | building | 11,162 | 4.1% | 0.04 | 8 | \$3,091 | 0% | 0.1 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Office | Lin. Fluor. Lighting | Early | Lamp | 61 | 19% | 0.00 | 15 | \$35 | 94% | 0.3 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 40W T12 Lamp, Magnetic Ballast | Office | Lin. Fluor. Lighting | Early | Lamp | 134 | 63% | 0.02 | 15 | \$35 | 94% | 2.0 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Office | Lin. Fluor. Lighting | Early | Lamp | 75 | 34% | 0.01 | 15 | \$35 | 94% | 0.6 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Office | Lin. Fluor. Lighting | Early | Lamp | 73 | 32% | 0.01 | 15 | \$35 | 94% | 0.6 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Office | Lin. Fluor. Lighting | New | Lamp | 47 | 19% | 0.00 | 15 | \$28 | 94% | 0.3 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Office | Lin. Fluor. Lighting | New | Lamp | 56 | 32% | 0.00 | 15 | \$29 | 94% | 0.5 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Office | Lin. Fluor. Lighting | New | Lamp | 57 | 34% | 0.00 | 15 | \$22 | 94% | 0.8 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---|---|---------|---------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Office | Motors | Early | motor | 114,476 | 1.3% | 0.2 | 15 | \$3,955 | 61% | 0.3 |
| PECO | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Office | Motors | New | motor | 113,533 | 0.5% | 0.06 | 15 | \$554 | 61% | 0.7 |
| PECO | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Office | Motors | New | motor | 113,533 | 0.5% | 0.06 | 15 | \$554 | 61% | 0.7 |
| PECO | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Office | Motors | New | motor | 113,533 | 0.5% | 0.06 | 15 | \$554 | 61% | 0.7 |
| PECO | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Office | Motors | New | motor | 113,533 | 0.5% | 0.07 | 15 | \$554 | 61% | 0.7 |
| PECO | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Office | Motors | New | motor | 113,533 | 0.5% | 0.06 | 15 | \$554 | 61% | 0.7 |
| PECO | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Office | Motors | ROB | motor | 113,533 | 0.5% | 0.06 | 15 | \$554 | 61% | 0.7 |
| PECO | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Office | Motors | ROB | motor | 113,533 | 0.5% | 0.06 | 15 | \$554 | 61% | 0.7 |
| PECO | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Office | Motors | ROB | motor | 113,533 | 0.5% | 0.07 | 15 | \$554 | 61% | 0.7 |
| PECO | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Office | Motors | ROB | motor | 113,533 | 0.5% | 0.06 | 15 | \$554 | 61% | 0.7 |
| PECO | CO sensors for parking garage exhaust fans | No CO Sensors | Office | Motors | Existing | building | 579 | 25% | 0.3 | 8 | \$68 | 4% | 3.2 |
| PECO | CO sensors for parking garage exhaust fans | No CO Sensors | Office | Motors | New | building | 579 | 25% | 0.3 | 8 | \$68 | 4% | 3.2 |
| PECO | demand controlled ventilation | Absence of Demand Controlled Ventilation | Office | Motors | Early | measure | 5,088 | 5.9% | 0.03 | 10 | \$41,922 | 92% | 0.0 |
| PECO | demand controlled ventilation | Office building thermostat | Office | Motors | New | measure | 5,088 | 5.9% | 0.03 | 10 | \$31,300 | 92% | 0.0 |
| PECO | demand controlled ventilation | Office building thermostat | Office | Motors | ROB | measure | 5,088 | 5.9% | 0.03 | 10 | \$31,300 | 92% | 0.0 |
| PECO | Downsizing motor during retrofit | Larger hp standard motor | Office | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 23.7 |
| PECO | Downsizing motor during retrofit | Larger hp standard motor | Office | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 24.1 |
| PECO | Downsizing motor during retrofit | Larger hp standard motor | Office | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 24.5 |
| PECO | Downsizing motor during retrofit | Larger hp standard motor | Office | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 25.5 |
| PECO | Downsizing motor during retrofit | Larger hp standard motor | Office | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 25.5 |
| PECO | Downsizing motor during retrofit | Larger hp standard motor | Office | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 23.4 |
| PECO | Downsizing motor during retrofit | Larger hp standard motor | Office | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 24.0 |
| PECO | Downsizing motor during retrofit | Larger hp standard motor | Office | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 24.3 |
| PECO | Downsizing motor during retrofit | Larger hp standard motor | Office | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 25.3 |
| PECO | Downsizing motor during retrofit | Larger hp standard motor | Office | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 25.7 |
| PECO | Escalator Motor Controller | Constant power control | Office | Motors | New | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 22% | 6.4 |
| PECO | Escalator Motor Controller | Constant power control | Office | Motors | ROB | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 22% | 6.4 |
| PECO | Fan Motor - correct sizing | Incorrect Fan Motor Sizing | Office | Motors | ROB | measure | 5,088 | 2.9% | 0.02 | 15 | \$50 | 92% | 2.0 |
| PECO | Variable Speed Drive Control, 15HP | Existing Motors w/out VSD Drive | Office | Motors | Early | motor | 23,705 | 70% | 1.8 | 15 | \$731 | 86% | 15.1 |
| PECO | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Office | Motors | New | motor | 23,195 | 72% | 1.8 | 15 | \$731 | 86% | 15.1 |
| PECO | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Office | Motors | ROB | motor | 23,195 | 72% | 1.8 | 15 | \$731 | 86% | 15.1 |
| PECO | Variable Speed Drive Control, 40HP | Existing Motors w/out VSD Drive | Office | Motors | Early | motor | 61,853 | 71% | 4.8 | 15 | \$4,666 | 86% | 6.3 |
| PECO | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Office | Motors | New | motor | 61,130 | 72% | 4.8 | 15 | \$4,666 | 86% | 6.3 |
| PECO | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Office | Motors | ROB | motor | 61,130 | 72% | 4.8 | 15 | \$4,666 | 86% | 6.3 |
| PECO | Variable Speed Drive Control, 5HP | Existing Motors w/out VFD Drive | Office | Motors | Early | motor | 8,218 | 70% | 0.6 | 15 | \$2,243 | 86% | 1.7 |
| PECO | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Office | Motors | New | motor | 8,034 | 72% | 0.6 | 15 | \$2,243 | 86% | 1.7 |
| PECO | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Office | Motors | ROB | motor | 8,034 | 72% | 0.6 | 15 | \$2,243 | 86% | 1.7 |
| PECO | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Office | Motors | Early | motor | 4,390 | 26% | 0.1 | 15 | \$268 | 13% | 2.8 |
| PECO | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Office | Motors | New | motor | 4,390 | 26% | 0.1 | 15 | \$268 | 13% | 2.8 |
| PECO | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Office | Motors | ROB | motor | 4,390 | 26% | 0.1 | 15 | \$268 | 13% | 2.8 |
| PECO | VFD on Chilled Water Pump | Motor w/out VFD Drive | Office | Motors | Early | motor | 18,724 | 54% | 2.7 | 15 | \$2,903 | 86% | 2.9 |
| PECO | VFD on Chilled Water Pump | Motor w/out VFD Drive | Office | Motors | New | motor | 18,373 | 55% | 2.7 | 15 | \$2,843 | 86% | 2.9 |
| PECO | VFD on Chilled Water Pump | Motor w/out VFD Drive | Office | Motors | ROB | motor | 18,373 | 55% | 2.7 | 15 | \$2,843 | 86% | 2.9 |
| PECO | VFD on Condenser Water Pump | Motor w/out VFD Drive | Office | Motors | Early | motor | 18,641 | 32% | 3.2 | 15 | \$2,903 | 86% | 2.3 |
| PECO | VFD on Condenser Water Pump | Motor w/out VFD Drive | Office | Motors | New | motor | 18,292 | 33% | 3.1 | 15 | \$2,843 | 86% | 2.3 |
| PECO | VFD on Condenser Water Pump | Motor w/out VFD Drive | Office | Motors | ROB | motor | 18,292 | 33% | 3.1 | 15 | \$2,843 | 86% | 2.3 |
| PECO | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Office | Motors | Early | motor | 24,733 | 56% | 0.00 | 15 | \$2,903 | 86% | 2.6 |
| PECO | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Office | Motors | New | motor | 24,271 | 57% | 0.00 | 15 | \$2,843 | 86% | 2.6 |
| PECO | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Office | Motors | ROB | motor | 24,271 | 57% | 0.00 | 15 | \$2,843 | 86% | 2.6 |
| PECO | VFD on HVAC Fan | Motor w/out VFD | Office | Motors | Early | motor | 18,724 | 70% | 3.4 | 15 | \$2,903 | 86% | 3.7 |
| PECO | VFD on HVAC Fan | Motor w/out VFD | Office | Motors | New | motor | 18,373 | 72% | 3.3 | 15 | \$2,843 | 86% | 3.8 |
| PECO | VFD on HVAC Fan | Motor w/out VFD | Office | Motors | ROB | motor | 18,373 | 72% | 3.3 | 15 | \$2,843 | 86% | 3.8 |
| PECO | Elevators | Std. Eff Elevator | Office | Other | ROB | measure | 89,016 | 2.8% | 0.4 | 15 | \$1,228 | 63% | 1.5 |
| PECO | Variable Speed Drives on Process Equipment | Constant speed control | Office | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 11.8 |
| PECO | Variable Speed Drives on Process Equipment | Constant speed control | Office | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 11.8 |
| PECO | Auto Off Time Switch | Lighting w/ No Controls | Office | Other Int. Lighting | Existing | building | 4,578 | 24% | 0.2 | 8 | \$628 | 13% | 0.8 |
| PECO | Auto Off Time Switch | Lighting w/ No Controls | Office | Other Int. Lighting | New | building | 4,578 | 7.0% | 0.07 | 8 | \$628 | 0% | 0.2 |
| PECO | Central Lighting Control System | Lighting w/ No Controls | Office | Other Int. Lighting | Existing | building | 4,578 | 38% | 0.4 | 8 | \$628 | 13% | 1.3 |
| PECO | Central Lighting Control System | Lighting w/ No Controls | Office | Other Int. Lighting | New | building | 4,578 | 14% | 0.1 | 8 | \$628 | 13% | 0.5 |
| PECO | Cold Cathode Screw-In Bulb | 40W Incandescent Bulb | Office | Other Int. Lighting | Early | lamp | 141 | 87% | 0.03 | 11 | \$30 | 14% | 2.7 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Office | Other Int. Lighting | Early | lamp | 101 | 81% | 0.02 | 11 | \$30 | 11% | 1.8 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Office | Other Int. Lighting | New | lamp | 77 | 81% | 0.02 | 11 | \$21 | 14% | 1.9 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Office | Other Int. Lighting | New | lamp | 77 | 81% | 0.02 | 11 | \$23 | 14% | 1.8 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Office | Other Int. Lighting | New | lamp | 77 | 81% | 0.02 | 11 | \$22 | 11% | 1.8 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Office | Other Int. Lighting | ROB | lamp | 101 | 81% | 0.02 | 11 | \$21 | 14% | 2.5 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Office | Other Int. Lighting | ROB | lamp | 101 | 81% | 0.02 | 11 | \$23 | 14% | 2.4 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Office | Other Int. Lighting | ROB | lamp | 101 | 81% | 0.02 | 11 | \$22 | 11% | 2.4 |
| PECO | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Office | Other Int. Lighting | Early | lamp | 141 | 75% | 0.03 | 4 | \$73 | 18% | 0.4 |
| PECO | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Office | Other Int. Lighting | New | fixture | 154 | 65% | 0.02 | 13 | \$29 | 21% | 2.6 |
| PECO | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Office | Other Int. Lighting | New | lamp | 77 | 65% | 0.01 | 4 | \$29 | 21% | 0.5 |
| PECO | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Office | Other Int. Lighting | ROB | fixture | 203 | 65% | 0.03 | 13 | \$29 | 18% | 3.4 |
| PECO | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Office | Other Int. Lighting | ROB | lamp | 101 | 65% | 0.02 | 4 | \$29 | 18% | 0.6 |
| PECO | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Office | Other Int. Lighting | Early | lamp | 141 | 75% | 0.03 | 4 | \$3.2 | 20% | 8.8 |
| PECO | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Office | Other Int. Lighting | New | lamp | 77 | 65% | 0.01 | 4 | \$1.8 | 20% | 7.5 |
| PECO | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Office | Other Int. Lighting | ROB | lamp | 101 | 65% | 0.02 | 4 | \$1.8 | 20% | 9.8 |
| PECO | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Office | Other Int. Lighting | ROB | lamp | 101 | 65% | 0.02 | 4 | \$1.8 | 20% | 9.8 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|--|---|---------|---------------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Exit Sign Retrofit: CFL replacing Incandescent HE Lighting Fixtures/Design 10% better than code (New Construction) | One 23W Single Sided Incandescent Exit Sign | Office | Other Int. Lighting | Early | exit sign | 140 | 42% | 0.01 | 15 | \$48 | 22% | 0.9 |
| PECO | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Office | Other Int. Lighting | New | building | 4,578 | 10% | 0.1 | 15 | \$28,258 | 32% | 0.0 |
| PECO | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Office | Other Int. Lighting | New | building | 4,578 | 15% | 0.2 | 15 | \$70,645 | 32% | 0.0 |
| PECO | Indoor Daylight Sensors | Lighting Meeting Code Required LPD | Office | Other Int. Lighting | New | building | 4,578 | 30% | 0.3 | 15 | \$101,258 | 32% | 0.0 |
| PECO | Indoor Daylight Sensors | Lighting w/ No Controls | Office | Other Int. Lighting | Existing | building | 4,578 | 28% | 0.3 | 8 | \$3,091 | 13% | 0.2 |
| PECO | Indoor Daylight Sensors | Lighting w/ No Controls | Office | Other Int. Lighting | New | building | 4,578 | 4.1% | 0.04 | 8 | \$3,091 | 0% | 0.0 |
| PECO | LED Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Office | Other Int. Lighting | Early | sign | 153 | 87% | 0.02 | 15 | \$48 | 16% | 1.9 |
| PECO | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Office | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 2.1 |
| PECO | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Office | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 2.1 |
| PECO | LED Task Lighting/Screw-In | 1 15W CFL bulb | Office | Other Int. Lighting | Early | lamp | 22 | 33% | 0.00 | 15 | \$9.6 | 20% | 0.6 |
| PECO | LED Task Lighting/Screw-In | 1 60W Incandescent Bulb | Office | Other Int. Lighting | Early | lamp | 88 | 83% | 0.02 | 15 | \$9.6 | 20% | 6.0 |
| PECO | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Office | Other Int. Lighting | New | lamp | 48 | 77% | 0.01 | 15 | \$7.9 | 20% | 3.6 |
| PECO | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Office | Other Int. Lighting | New | lamp | 48 | 77% | 0.01 | 15 | \$7.9 | 20% | 3.6 |
| PECO | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Office | Other Int. Lighting | ROB | lamp | 63 | 77% | 0.01 | 15 | \$7.9 | 20% | 4.8 |
| PECO | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Office | Other Int. Lighting | ROB | lamp | 63 | 77% | 0.01 | 15 | \$7.9 | 20% | 4.8 |
| PECO | Occupancy Sensor | Lighting w/ No Controls | Office | Other Int. Lighting | Existing | building | 4,578 | 24% | 0.2 | 8 | \$946 | 12% | 0.6 |
| PECO | Occupancy Sensor | Lighting w/ No Controls | Office | Other Int. Lighting | New | building | 4,578 | 7.0% | 0.07 | 8 | \$946 | 0% | 0.2 |
| PECO | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Office | Other Int. Lighting | Existing | building | 4,578 | 28% | 0.3 | 8 | \$3,091 | 12% | 0.2 |
| PECO | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Office | Other Int. Lighting | New | building | 4,578 | 4.1% | 0.04 | 8 | \$3,091 | 0% | 0.0 |
| PECO | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Office | Other Int. Lighting | Early | exit sign | 140 | 100% | 0.02 | 15 | \$173 | 26% | 0.6 |
| PECO | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Office | Other Int. Lighting | New | exit sign | 81 | 100% | 0.01 | 15 | \$148 | 31% | 0.4 |
| PECO | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Office | Other Int. Lighting | ROB | exit sign | 81 | 100% | 0.01 | 15 | \$148 | 26% | 0.4 |
| PECO | Time Clock Control | Lighting w/ No Controls | Office | Other Int. Lighting | Existing | building | 4,578 | 28% | 0.3 | 8 | \$628 | 13% | 1.0 |
| PECO | Time Clock Control | Lighting w/ No Controls | Office | Other Int. Lighting | New | building | 4,578 | 4.1% | 0.04 | 8 | \$628 | 0% | 0.1 |
| PECO | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Office | Plug Load | Existing | building | 2,913 | 46% | 0.5 | 5 | \$189 | 4% | 2.6 |
| PECO | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Office | Plug Load | New | building | 1,422 | 46% | 0.5 | 5 | \$189 | 4% | 1.8 |
| PECO | Data Center - Server/Storage Consolidation | No Consolidation | Office | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 36% | 0.0 |
| PECO | Data Center - Server/Storage Consolidation | No Consolidation | Office | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 36% | 0.0 |
| PECO | Data Center - Server/Storage Virtualization | No Virtualization | Office | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 36% | 0.0 |
| PECO | Data Center - Server/Storage Virtualization | No Virtualization | Office | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 36% | 0.0 |
| PECO | Energy Star - Scanners | Std Scanner | Office | Plug Load | New | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 88% | 0.1 |
| PECO | Energy Star - Scanners | Std Scanner | Office | Plug Load | ROB | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 88% | 0.1 |
| PECO | Energy Star Battery Charging System (for small cordless products) | Std. Battery Charging System | Office | Plug Load | ROB | measure | 593 | 2.3% | 1.3 | 5 | \$65 | 4% | 8.8 |
| PECO | Energy Star Dishwasher | Existing Dishwasher units | Office | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,580 | 1% | 1.1 |
| PECO | Energy Star Dishwasher | Standard Dishwasher unit | Office | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 1% | 3.6 |
| PECO | Energy Star Dishwasher | Standard Dishwasher unit | Office | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 1% | 3.6 |
| PECO | Energy Star External Power Adapter | Std. Power Adapter | Office | Plug Load | New | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| PECO | Energy Star External Power Adapter | Std. Power Adapter | Office | Plug Load | ROB | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| PECO | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Office | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 17% | 0.2 |
| PECO | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Office | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.3 |
| PECO | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Office | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.3 |
| PECO | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Office | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 9% | 0.8 |
| PECO | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Office | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.8 |
| PECO | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Office | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.8 |
| PECO | ENERGY STAR® Copiers | 10% Less Efficient Copier | Office | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 80% | 0.0 |
| PECO | ENERGY STAR® Copiers | One Conventional Copier | Office | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 80% | 0.0 |
| PECO | ENERGY STAR® Copiers | One Conventional Copier | Office | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 80% | 0.0 |
| PECO | ENERGY STAR® desktop | Standard computer | Office | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 87% | 0.1 |
| PECO | ENERGY STAR® desktop | Standard computer | Office | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 87% | 2.4 |
| PECO | ENERGY STAR® desktop | Standard computer | Office | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 87% | 2.4 |
| PECO | ENERGY STAR® Fax | 10% Less Efficient Fax | Office | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 89% | 0.0 |
| PECO | ENERGY STAR® Fax | One Conventional Fax | Office | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 89% | 0.2 |
| PECO | ENERGY STAR® Fax | One Conventional Fax | Office | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 89% | 0.2 |
| PECO | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Office | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 89% | 0.0 |
| PECO | ENERGY STAR® Monitors | One Conventional Monitor | Office | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 89% | 0.0 |
| PECO | ENERGY STAR® Monitors | One Conventional Monitor | Office | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 89% | 0.0 |
| PECO | ENERGY STAR® Printers | 10% Less Efficient Printer | Office | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 89% | 0.0 |
| PECO | ENERGY STAR® Printers | One Conventional Printer | Office | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 89% | 0.4 |
| PECO | ENERGY STAR® Printers | One Conventional Printer | Office | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$130 | 89% | 0.4 |
| PECO | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Office | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 87% | 0.1 |
| PECO | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Office | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 87% | 0.8 |
| PECO | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Office | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 87% | 0.8 |
| PECO | ENERGY STAR® Televisions | 10% Less Efficient Television | Office | Plug Load | Early | Unit | 179 | 38% | 0.01 | 6 | \$672 | 85% | 0.0 |
| PECO | ENERGY STAR® Televisions | One Conventional Television | Office | Plug Load | New | Unit | 163 | 32% | 0.01 | 6 | \$206 | 85% | 0.1 |
| PECO | ENERGY STAR® Televisions | One Conventional Television | Office | Plug Load | ROB | Unit | 163 | 32% | 0.01 | 6 | \$206 | 85% | 0.1 |
| PECO | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Office | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 81% | 0.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---|--|---------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Office | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 81% | 0.7 |
| PECO | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Office | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 81% | 0.7 |
| PECO | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Office | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 51% | 0.3 |
| PECO | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Office | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 51% | 0.3 |
| PECO | Network PC Power Management | No PC Power Management | Office | Plug Load | Existing | building | 425 | 33% | 0.3 | 5 | \$12 | 38% | 46.8 |
| PECO | Network PC Power Management | No PC Power Management | Office | Plug Load | New | building | 425 | 33% | 0.3 | 5 | \$12 | 38% | 46.8 |
| PECO | Smart Strip Plug Outlets | Standard plug strip/outlet | Office | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.4 |
| PECO | Smart Strip Plug Outlets | Standard plug strip/outlet | Office | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.4 |
| PECO | Smart Strip Plug Outlets | Standard plug strip/outlet | Office | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PECO | Smart Strip Plug Outlets | Standard plug strip/outlet | Office | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PECO | Smart Strip Plug Outlets | Standard plug strip/outlet | Office | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PECO | Smart Strip Plug Outlets | Standard plug strip/outlet | Office | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PECO | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Office | Plug Load | Existing | building | 2,913 | 46% | 0.5 | 5 | \$180 | 3% | 2.7 |
| PECO | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Office | Plug Load | New | building | 1,422 | 46% | 0.5 | 5 | \$180 | 3% | 1.9 |
| PECO | Auto Closer on Refrigerator Door | Door w/out Autocloser | Office | Refrigeration | Existing | building | 1,223 | 55% | 0.5 | 8 | \$747 | 40% | 0.8 |
| PECO | Auto Closer on Refrigerator Door | Door w/out Autocloser | Office | Refrigeration | Existing | building | 3,499 | 19% | 0.2 | 8 | \$476 | 40% | 0.7 |
| PECO | Auto Closer on Refrigerator Door | Door w/out Autocloser | Office | Refrigeration | New | building | 1,223 | 55% | 0.5 | 8 | \$747 | 40% | 0.8 |
| PECO | Auto Closer on Refrigerator Door | Door w/out Autocloser | Office | Refrigeration | New | building | 3,499 | 19% | 0.2 | 8 | \$476 | 40% | 0.7 |
| PECO | Door Gasket- Freezer | Door w/out Gasket | Office | Refrigeration | Existing | building | 1,223 | 30% | 0.3 | 4 | \$77 | 29% | 2.2 |
| PECO | Door Gasket- Freezer | Door w/out Gasket | Office | Refrigeration | New | building | 1,223 | 31% | 0.3 | 4 | \$77 | 29% | 2.3 |
| PECO | Door Gasket- Refrigerator | Door w/out Gasket | Office | Refrigeration | Existing | building | 3,499 | 6.1% | 0.06 | 4 | \$66 | 45% | 0.9 |
| PECO | Door Gasket- Refrigerator | Door w/out Gasket | Office | Refrigeration | New | building | 3,499 | 6.1% | 0.06 | 4 | \$66 | 45% | 0.9 |
| PECO | eCube | Refrigeration unit w/out eCube | Office | Refrigeration | Existing | building | 3,499 | 15% | 0.2 | 15 | \$38 | 57% | 11.4 |
| PECO | eCube | Refrigeration unit w/out eCube | Office | Refrigeration | New | building | 3,499 | 15% | 0.2 | 15 | \$38 | 57% | 11.4 |
| PECO | Efficient compressor motor | Base Refrigeration System - Grocery | Office | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| PECO | Efficient compressor motor | Base Refrigeration System - Grocery | Office | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| PECO | Efficient compressor motor | Base Refrigeration System - Grocery | Office | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| PECO | Efficient compressor motor | Base Refrigeration System - Grocery | Office | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| PECO | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Office | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.6 |
| PECO | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Office | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| PECO | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Office | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| PECO | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Office | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.3 |
| PECO | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Office | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.8 |
| PECO | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Office | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.8 |
| PECO | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Office | Refrigeration | Existing | building | 3,499 | 3.5% | 0.04 | 10 | \$369 | 77% | 0.2 |
| PECO | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Office | Refrigeration | New | building | 3,499 | 3.5% | 0.04 | 10 | \$369 | 77% | 0.2 |
| PECO | Floating head pressure controller | System w/out FHPC | Office | Refrigeration | Existing | building | 1,223 | 19% | 0.05 | 15 | \$8,682 | 41% | 0.0 |
| PECO | Floating head pressure controller | System w/out FHPC | Office | Refrigeration | Existing | building | 3,499 | 2.3% | 0.02 | 15 | \$8,682 | 41% | 0.0 |
| PECO | Floating head pressure controller | System w/out FHPC | Office | Refrigeration | New | building | 1,223 | 19% | 0.05 | 15 | \$8,682 | 41% | 0.0 |
| PECO | Floating head pressure controller | System w/out FHPC | Office | Refrigeration | New | building | 3,499 | 2.3% | 0.02 | 15 | \$8,682 | 41% | 0.0 |
| PECO | High Efficiency Commercial Freezer | Std. Commercial Freezer | Office | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 86% | 0.3 |
| PECO | High Efficiency Commercial Freezer | Std. Commercial Freezer | Office | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 4.2 |
| PECO | High Efficiency Commercial Freezer | Std. Commercial Freezer | Office | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 4.2 |
| PECO | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Office | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 2% | 0.1 |
| PECO | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Office | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.9 |
| PECO | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Office | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.9 |
| PECO | High Efficiency Ice Maker | Existing Standard Efficiency Ice Maker in Pennsylvania | Office | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 73% | 0.2 |
| PECO | High Efficiency Ice Maker | Standard code minimum Ice Maker | Office | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| PECO | High Efficiency Ice Maker | Standard code minimum Ice Maker | Office | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| PECO | High Efficiency Ice Making Head | Standard Ice Making Head | Office | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 4.1 |
| PECO | High Efficiency Ice Making Head | Standard Ice Making Head | Office | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 4.1 |
| PECO | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Office | Refrigeration | Early | Fixture | 373 | 56% | 0.02 | 8 | \$448 | 47% | 0.2 |
| PECO | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Office | Refrigeration | New | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 47% | 0.3 |
| PECO | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Office | Refrigeration | ROB | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 47% | 0.3 |
| PECO | Quick acting freezer doors | Std. Freezer Doors | Office | Refrigeration | Existing | building | 1,223 | 13% | 0.1 | 10 | \$388 | 56% | 0.4 |
| PECO | Quick acting freezer doors | Std. Freezer Doors | Office | Refrigeration | New | building | 1,223 | 13% | 0.1 | 10 | \$388 | 56% | 0.4 |
| PECO | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Office | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 30% | 0.4 |
| PECO | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Office | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.6 |
| PECO | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Office | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.6 |
| PECO | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 30% | 1.7 |
| PECO | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 3.0 |
| PECO | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 3.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---|---|---------|-----------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 30% | 1.7 |
| PECO | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 4.0 |
| PECO | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 4.0 |
| PECO | Refrigeration Commissioning | Non-commissioned refrigeration system | Office | Refrigeration | Existing | building | 4,894 | 9.5% | 0.10 | 3 | \$1,086 | 85% | 0.1 |
| PECO | Refrigeration Commissioning | Non-commissioned refrigeration system | Office | Refrigeration | New | building | 4,894 | 9.5% | 0.10 | 3 | \$1,086 | 85% | 0.1 |
| PECO | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Office | Refrigeration | Existing | building | 1,223 | 70% | 0.7 | 4 | \$93 | 22% | 4.3 |
| PECO | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Office | Refrigeration | Existing | building | 3,499 | 8.5% | 0.09 | 4 | \$80 | 22% | 1.0 |
| PECO | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Office | Refrigeration | New | building | 1,223 | 70% | 0.7 | 4 | \$93 | 22% | 4.3 |
| PECO | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Office | Refrigeration | New | building | 3,499 | 8.5% | 0.09 | 4 | \$80 | 22% | 1.0 |
| PECO | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Office | Refrigeration | Existing | building | 1,223 | 12% | 0.1 | 11 | \$117 | 79% | 1.4 |
| PECO | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Office | Refrigeration | New | building | 1,223 | 12% | 0.1 | 11 | \$117 | 79% | 1.4 |
| PECO | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Office | Refrigeration | Existing | building | 3,499 | 8.9% | 0.09 | 11 | \$117 | 79% | 1.8 |
| PECO | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Office | Refrigeration | New | building | 3,499 | 8.9% | 0.09 | 11 | \$117 | 79% | 1.8 |
| PECO | VSD Controlled Compressor | Compressor w/out VSD | Office | Refrigeration | Early | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.2 |
| PECO | VSD Controlled Compressor | Compressor w/out VSD | Office | Refrigeration | New | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.2 |
| PECO | VSD Controlled Compressor | Compressor w/out VSD | Office | Refrigeration | ROB | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.2 |
| PECO | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Office | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$269 | 35% | 0.9 |
| PECO | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Office | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$269 | 35% | 0.9 |
| PECO | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Office | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.2 |
| PECO | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Office | Refrigeration | New | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 3.0 |
| PECO | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Office | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.2 |
| PECO | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Office | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 3.0 |
| PECO | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 35% | 2.4 |
| PECO | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 35% | 2.3 |
| PECO | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 5.2 |
| PECO | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.9 |
| PECO | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 5.2 |
| PECO | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.9 |
| PECO | Adding reflective roof treatment | Std color roof | Office | Space Heating | Existing | building | 13,051 | 7.1% | 0.07 | 6 | \$12,337 | 82% | 0.0 |
| PECO | Adding reflective roof treatment | Std color roof | Office | Space Heating | New | building | 13,051 | 7.1% | 0.07 | 6 | \$12,337 | 82% | 0.0 |
| PECO | Adding window shade film | No shade film | Office | Space Heating | Existing | building | 13,051 | 1.3% | 0.4 | 10 | \$159 | 13% | 2.2 |
| PECO | Adding window shade film | No shade film | Office | Space Heating | New | building | 13,051 | 1.3% | 0.4 | 10 | \$159 | 13% | 2.2 |
| PECO | Adding window shade screen | No shade screen | Office | Space Heating | Existing | building | 13,051 | 1.1% | 0.01 | 10 | \$61 | 13% | 1.0 |
| PECO | Adding window shade screen | No shade screen | Office | Space Heating | New | building | 13,051 | 1.1% | 0.01 | 10 | \$61 | 13% | 1.0 |
| PECO | Automated control system | Manual Controls | Office | Space Heating | Existing | building | 13,051 | 17% | 0.2 | 15 | \$14,288 | 51% | 0.1 |
| PECO | Automated control system | Manual Controls | Office | Space Heating | New | building | 13,051 | 17% | 0.2 | 15 | \$14,288 | 94% | 0.1 |
| PECO | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Office | Space Heating | Existing | building | 13,051 | 4.9% | 0.05 | 15 | \$16,437 | 71% | 0.0 |
| PECO | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Office | Space Heating | New | building | 13,051 | 2.3% | 0.02 | 15 | \$15,624 | 94% | 0.0 |
| PECO | Duct Insulation, Add R8 | No Insulation | Office | Space Heating | Existing | building | 13,051 | 1.4% | 0.04 | 15 | \$104 | 20% | 1.3 |
| PECO | Duct Insulation, Add R8 | No Insulation | Office | Space Heating | New | building | 13,051 | 1.4% | 0.04 | 15 | \$104 | 10% | 1.3 |
| PECO | Efficient Unit Heating System | Existing Unit Heaters in PA | Office | Space Heating | Early | heater | 991 | 23% | 0.00 | 15 | \$3,289 | 83% | 0.0 |
| PECO | Efficient Unit Heating System | Std. Unit Heater | Office | Space Heating | New | heater | 879 | 13% | 0.00 | 15 | \$1,991 | 83% | 0.0 |
| PECO | Efficient Unit Heating System | Std. Unit Heater | Office | Space Heating | ROB | heater | 879 | 13% | 0.00 | 15 | \$1,991 | 83% | 0.0 |
| PECO | Facility Commissioning | No Facility Commissioning | Office | Space Heating | New | building | 13,051 | 16% | 0.2 | 10 | \$47,410 | 89% | 0.0 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Office | Space Heating | Existing | building | 13,051 | 7.1% | 0.07 | 15 | \$57,892 | 25% | 0.0 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Office | Space Heating | New | building | 13,051 | 7.1% | 0.07 | 15 | \$57,892 | 35% | 0.0 |
| PECO | Hi Eff HVAC System Design | No HVAC Design | Office | Space Heating | New | building | 13,051 | 0.8% | 0.01 | 10 | \$1,074 | 51% | 0.0 |
| PECO | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Office | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 1.1 |
| PECO | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Office | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 1.1 |
| PECO | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Office | Space Heating | Existing | building | 13,051 | 2.8% | 0.03 | 10 | \$7,735 | 81% | 0.0 |
| PECO | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Office | Space Heating | New | building | 13,051 | 2.8% | 0.03 | 10 | \$7,735 | 81% | 0.0 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Office | Space Heating | Existing | building | 13,051 | 3.6% | 0.04 | 11 | \$286 | 49% | 0.8 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Office | Space Heating | New | building | 13,051 | 3.1% | 0.03 | 11 | \$146 | 49% | 1.3 |
| PECO | Re-Commissioning (Existing Construction) | No Re-Commissioning | Office | Space Heating | Existing | building | 13,051 | 16% | 0.2 | 5 | \$7,777 | 86% | 0.1 |
| PECO | VFD on Cooling Tower Fan | Motor w/out VFD | Office | Space Heating | Early | motor | 18,724 | 70% | 3.4 | 15 | \$2,843 | 88% | 3.7 |
| PECO | VFD on Cooling Tower Fan | Motor w/out VFD | Office | Space Heating | New | motor | 18,373 | 72% | 3.3 | 15 | \$2,843 | 88% | 3.7 |
| PECO | VFD on Cooling Tower Fan | Motor w/out VFD | Office | Space Heating | ROB | motor | 18,373 | 72% | 3.3 | 15 | \$2,843 | 88% | 3.7 |
| PECO | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Office | Space Heating | Existing | building | 13,051 | 15% | 0.2 | 15 | \$5,028 | 26% | 0.2 |
| PECO | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Office | Space Heating | New | building | 13,051 | 0.5% | 0.01 | 15 | \$3,857 | 94% | 0.0 |
| PECO | Green LED Traffic Light | Green Incandescent Traffic Light | Office | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 0% | 1.3 |
| PECO | Green LED Traffic Light | Green Incandescent Traffic Light | Office | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.2 |
| PECO | Green LED Traffic Light | Green Incandescent Traffic Light | Office | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.2 |
| PECO | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Office | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 0% | 3.2 |
| PECO | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Office | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|--|---|--------------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Office | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| PECO | Induction Street Lighting | One 100W HPS Street Light Fixture | Office | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 0% | 0.3 |
| PECO | Induction Street Lighting | One 100W HPS Street Light Fixture | Office | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.8 |
| PECO | Induction Street Lighting | One 100W HPS Street Light Fixture | Office | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.8 |
| PECO | LED Street Lighting | One 100W HPS Street Light | Office | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 0% | 0.2 |
| PECO | LED Street Lighting | One 100W HPS Street Light | Office | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| PECO | LED Street Lighting | One 100W HPS Street Light | Office | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| PECO | Red LED Traffic Light | One Red Incandescent Traffic Light | Office | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 0% | 1.7 |
| PECO | Red LED Traffic Light | One Red Incandescent Traffic Light | Office | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| PECO | Red LED Traffic Light | One Red Incandescent Traffic Light | Office | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| PECO | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Office | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 0% | 0.1 |
| PECO | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Office | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| PECO | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Office | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| PECO | Demand controlled Circulating Systems | Constant circulation system | Office | Water Heating | Existing | building | 850 | 20% | 0.2 | 15 | \$154 | 59% | 2.0 |
| PECO | Demand controlled Circulating Systems | Constant circulation system | Office | Water Heating | New | building | 850 | 20% | 0.2 | 15 | \$154 | 59% | 2.0 |
| PECO | Drainwater Heat Recovery Water Heater | No heat recovery | Office | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 2.0 |
| PECO | Drainwater Heat Recovery Water Heater | No heat recovery | Office | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 2.0 |
| PECO | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Office | Water Heating | Existing | building | 850 | 5.9% | 0.06 | 12 | \$70 | 85% | 1.1 |
| PECO | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Office | Water Heating | New | building | 850 | 5.9% | 0.06 | 12 | \$20 | 85% | 3.8 |
| PECO | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Office | Water Heating | Early | water heater | 9,692 | 66% | 1.1 | 10 | \$1,187 | 68% | 2.9 |
| PECO | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Office | Water Heating | Early | water heater | 9,692 | 66% | 1.1 | 10 | \$1,187 | 68% | 2.9 |
| PECO | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Office | Water Heating | New | water heater | 9,692 | 66% | 1.1 | 10 | \$1,187 | 68% | 2.9 |
| PECO | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Office | Water Heating | New | water heater | 9,692 | 66% | 1.1 | 10 | \$1,187 | 68% | 2.9 |
| PECO | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Office | Water Heating | ROB | water heater | 9,423 | 65% | 1.1 | 10 | \$1,187 | 68% | 2.8 |
| PECO | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Office | Water Heating | ROB | water heater | 9,423 | 65% | 1.1 | 10 | \$1,187 | 68% | 2.8 |
| PECO | Heat Recovery Unit | Base Water Heating | Office | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.7 |
| PECO | Heat Recovery Unit | Base Water Heating | Office | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.7 |
| PECO | Heat Trap | No Heat Trap | Office | Water Heating | Existing | building | 850 | 22% | 0.2 | 11 | \$5.8 | 50% | 46.7 |
| PECO | Heat Trap | No Heat Trap | Office | Water Heating | New | building | 850 | 22% | 0.2 | 11 | \$0.9 | 50% | 313.4 |
| PECO | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Office | Water Heating | Early | water heater | 9,692 | 5.9% | 0.1 | 15 | \$307 | 79% | 1.4 |
| PECO | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Office | Water Heating | Early | water heater | 9,692 | 5.9% | 0.1 | 15 | \$307 | 79% | 1.4 |
| PECO | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Office | Water Heating | New | water heater | 9,423 | 3.2% | 0.05 | 15 | \$307 | 79% | 0.7 |
| PECO | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Office | Water Heating | New | water heater | 9,423 | 3.2% | 0.05 | 15 | \$307 | 79% | 0.7 |
| PECO | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Office | Water Heating | ROB | water heater | 9,423 | 3.2% | 0.05 | 15 | \$307 | 79% | 0.7 |
| PECO | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Office | Water Heating | ROB | water heater | 9,423 | 3.2% | 0.05 | 15 | \$307 | 79% | 0.7 |
| PECO | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Office | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$466 | 81% | 41.5 |
| PECO | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Office | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 21.6 |
| PECO | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Office | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 21.6 |
| PECO | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Office | Water Heating | Existing | building | 850 | 3.9% | 0.04 | 13 | \$5.1 | 68% | 10.5 |
| PECO | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Office | Water Heating | New | building | 850 | 3.9% | 0.04 | 13 | \$5.1 | 0% | 10.5 |
| PECO | Hot Water Circulation Pump Time-Clock | Constant circulation system | Office | Water Heating | Existing | building | 850 | 5.3% | 0.05 | 10 | \$3.4 | 72% | 17.4 |
| PECO | Hot Water Circulation Pump Time-Clock | Constant circulation system | Office | Water Heating | New | building | 850 | 5.3% | 0.05 | 10 | \$3.4 | 72% | 17.4 |
| PECO | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Office | Water Heating | Existing | building | 850 | 1.1% | 0.01 | 7 | \$22 | 78% | 0.4 |
| PECO | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Office | Water Heating | New | building | 850 | 0.9% | 0.01 | 7 | \$0.5 | 78% | 15.2 |
| PECO | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Office | Water Heating | Existing | building | 850 | 13% | 0.1 | 5 | \$300 | 0% | 0.3 |
| PECO | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Office | Water Heating | New | building | 850 | 13% | 0.1 | 5 | \$194 | 0% | 0.4 |
| PECO | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Office | Water Heating | Existing | building | 850 | 6.5% | 0.07 | 9 | \$25 | 2% | 2.7 |
| PECO | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Office | Water Heating | New | building | 850 | 6.5% | 0.07 | 9 | \$6.0 | 2% | 11.3 |
| PECO | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Office | Water Heating | Early | water heater | 9,692 | 52% | 0.4 | 15 | \$6,222 | 32% | 0.5 |
| PECO | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Office | Water Heating | New | water heater | 9,423 | 51% | 0.4 | 15 | \$6,222 | 32% | 0.5 |
| PECO | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Office | Water Heating | ROB | water heater | 9,423 | 51% | 0.4 | 15 | \$6,222 | 32% | 0.5 |
| PECO | Ultrasonic Faucet Control | Manual Faucet Control | Office | Water Heating | Existing | building | 850 | 3.0% | 0.03 | 10 | \$147 | 77% | 0.2 |
| PECO | Ultrasonic Faucet Control | Manual Faucet Control | Office | Water Heating | New | building | 850 | 3.1% | 0.03 | 10 | \$147 | 77% | 0.2 |
| PECO | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Office | Water Heating | Existing | building | 850 | 2.2% | 0.02 | 4 | \$28 | 83% | 0.4 |
| PECO | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Office | Water Heating | New | building | 850 | 2.3% | 0.02 | 4 | \$28 | 83% | 0.4 |
| PECO | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Other Inst'l | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.2 |
| PECO | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Other Inst'l | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.2 |
| PECO | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Other Inst'l | Cooking | Early | steamer | 51 | 46% | 0.00 | 12 | \$5,053 | 81% | 0.0 |
| PECO | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Other Inst'l | Cooking | New | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| PECO | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Other Inst'l | Cooking | ROB | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| PECO | Electric combination oven (Energy Star) | Standard Oven | Other Inst'l | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 3.3 |
| PECO | Electric combination oven (Energy Star) | Standard Oven | Other Inst'l | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 3.3 |
| PECO | Electric Convection Oven | Conventional convection oven w/ 65% efficiency | Other Inst'l | Cooking | Early | oven | 8,641 | 37% | 0.6 | 12 | \$4,119 | 81% | 0.5 |
| PECO | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Other Inst'l | Cooking | New | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.8 |
| PECO | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Other Inst'l | Cooking | ROB | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.8 |
| PECO | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Other Inst'l | Cooking | Early | fryer | 6,105 | 23% | 0.3 | 12 | \$9,241 | 86% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|--|--|--------------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Other Inst'l | Cooking | New | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.4 |
| PECO | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Other Inst'l | Cooking | ROB | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.4 |
| PECO | High Efficiency Griddle (ENERGY STAR) | Efficiency code minimum griddle (70% eff) | Other Inst'l | Cooking | Early | griddle | 11,317 | 65% | 1.4 | 12 | \$4,977 | 86% | 1.0 |
| PECO | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Other Inst'l | Cooking | New | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.3 |
| PECO | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Other Inst'l | Cooking | ROB | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.3 |
| PECO | High Efficiency Induction Cooking | Standard Cooking | Other Inst'l | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.2 |
| PECO | High Efficiency Induction Cooking | Standard Cooking | Other Inst'l | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.2 |
| PECO | Adding reflective roof treatment | Std color roof | Other Inst'l | Cooling Central | Existing | building | 1,950 | 7.0% | 0.07 | 6 | \$14,313 | 82% | 0.0 |
| PECO | Adding reflective roof treatment | Std color roof | Other Inst'l | Cooling Central | New | building | 1,950 | 7.0% | 0.07 | 6 | \$14,313 | 82% | 0.0 |
| PECO | Adding window shade film | No shade film | Other Inst'l | Cooling Central | Existing | building | 1,950 | 1.3% | 0.4 | 10 | \$24 | 12% | 12.7 |
| PECO | Adding window shade film | No shade film | Other Inst'l | Cooling Central | New | building | 1,950 | 1.3% | 0.4 | 10 | \$24 | 13% | 12.7 |
| PECO | Adding window shade screen | No shade screen | Other Inst'l | Cooling Central | Existing | building | 1,950 | 1.1% | 0.01 | 10 | \$9.2 | 13% | 1.8 |
| PECO | Adding window shade screen | No shade screen | Other Inst'l | Cooling Central | New | building | 1,950 | 1.1% | 0.01 | 10 | \$9.2 | 13% | 1.8 |
| PECO | Automated control system | Manual Controls | Other Inst'l | Cooling Central | Existing | building | 1,950 | 17% | 0.2 | 15 | \$2,135 | 51% | 0.2 |
| PECO | Automated control system | Manual Controls | Other Inst'l | Cooling Central | New | building | 1,950 | 17% | 0.2 | 15 | \$2,135 | 94% | 0.2 |
| PECO | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Other Inst'l | Cooling Central | Existing | building | 1,950 | 7.2% | 0.07 | 15 | \$17,130 | 71% | 0.0 |
| PECO | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Other Inst'l | Cooling Central | New | building | 1,950 | 2.4% | 0.02 | 15 | \$16,283 | 94% | 0.0 |
| PECO | Chiller Tuneup/Diagnostics | No tuneup | Other Inst'l | Cooling Central | Existing | building | 1,950 | 8.0% | 0.08 | 10 | \$4,980 | 59% | 0.0 |
| PECO | Chiller Tuneup/Diagnostics | No tuneup | Other Inst'l | Cooling Central | New | building | 1,950 | 8.0% | 0.08 | 10 | \$4,980 | 59% | 0.0 |
| PECO | Duct Insulation, Add R8 | No Insulation | Other Inst'l | Cooling Central | Existing | building | 1,950 | 1.4% | 0.04 | 15 | \$15 | 20% | 3.7 |
| PECO | Duct Insulation, Add R8 | No Insulation | Other Inst'l | Cooling Central | New | building | 1,950 | 1.4% | 0.04 | 15 | \$15 | 10% | 3.7 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Other Inst'l | Cooling Central | Existing | building | 1,950 | 7.0% | 0.07 | 15 | \$8,651 | 25% | 0.0 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Other Inst'l | Cooling Central | New | building | 1,950 | 7.0% | 0.07 | 15 | \$8,651 | 35% | 0.0 |
| PECO | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | Early | ton | 5,730 | 24% | 0.3 | 15 | \$108,550 | 88% | 0.0 |
| PECO | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | New | ton | 4,684 | 6.7% | 0.07 | 15 | \$12,927 | 88% | 0.0 |
| PECO | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | ROB | ton | 4,684 | 6.7% | 0.07 | 15 | \$12,927 | 88% | 0.0 |
| PECO | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | Early | ton | 8,562 | 23% | 0.5 | 15 | \$140,105 | 88% | 0.0 |
| PECO | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | New | ton | 6,888 | 4.9% | 0.08 | 15 | \$9,336 | 88% | 0.0 |
| PECO | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | ROB | ton | 6,888 | 4.9% | 0.08 | 15 | \$9,336 | 88% | 0.0 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | Early | ton | 70,089 | 26% | 4.1 | 15 | \$105,354 | 88% | 0.1 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | New | ton | 61,068 | 15% | 2.1 | 15 | \$30,530 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | ROB | ton | 61,068 | 15% | 2.1 | 15 | \$30,530 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | Early | ton | 104,974 | 23% | 5.4 | 15 | \$154,107 | 88% | 0.1 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | New | ton | 96,432 | 16% | 3.5 | 15 | \$27,646 | 88% | 0.4 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | ROB | ton | 104,974 | 23% | 5.4 | 15 | \$27,646 | 88% | 0.7 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | Early | ton | 174,342 | 23% | 8.9 | 15 | \$302,924 | 88% | 0.1 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | New | ton | 157,792 | 14% | 5.1 | 15 | \$115,432 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | ROB | ton | 174,342 | 23% | 8.9 | 15 | \$115,432 | 88% | 0.3 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | Early | ton | 209,211 | 23% | 10.6 | 15 | \$350,154 | 88% | 0.1 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | New | ton | 189,351 | 14% | 6.2 | 15 | \$120,406 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | ROB | ton | 209,211 | 23% | 10.6 | 15 | \$120,406 | 88% | 0.3 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | Early | ton | 46,373 | 29% | 3.1 | 15 | \$83,632 | 88% | 0.1 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | New | ton | 36,008 | 8.9% | 0.7 | 15 | \$40,211 | 88% | 0.1 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | ROB | ton | 46,373 | 29% | 3.1 | 15 | \$40,211 | 88% | 0.3 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | Early | ton | 79,681 | 35% | 6.2 | 15 | \$132,173 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | New | ton | 59,428 | 13% | 1.7 | 15 | \$39,556 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | ROB | ton | 59,428 | 13% | 1.7 | 15 | \$39,556 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | Early | ton | 133,034 | 39% | 11.7 | 15 | \$187,029 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | New | ton | 94,851 | 15% | 3.1 | 15 | \$33,554 | 88% | 0.3 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | ROB | ton | 133,034 | 39% | 11.7 | 15 | \$33,554 | 88% | 1.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---|---|--------------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | Early | ton | 23,279 | 30% | 1.6 | 15 | \$32,398 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | New | ton | 18,443 | 11% | 0.5 | 15 | \$7,188 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | ROB | ton | 23,279 | 30% | 1.6 | 15 | \$7,188 | 88% | 0.8 |
| PECO | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Other Inst'l | Cooling Central | Existing | building | 1,950 | 1.0% | 0.01 | 10 | \$41,718 | 81% | 0.0 |
| PECO | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Other Inst'l | Cooling Central | New | building | 1,950 | 1.1% | 0.01 | 10 | \$41,718 | 81% | 0.0 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Other Inst'l | Cooling Central | Existing | building | 1,950 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.1 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Other Inst'l | Cooling Central | New | building | 1,950 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.2 |
| PECO | Re-Commissioning (Existing Construction) | No Re-Commissioning | Other Inst'l | Cooling Central | Existing | building | 1,950 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |
| PECO | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Other Inst'l | Cooling Central | Existing | building | 1,950 | 13% | 0.1 | 15 | \$3,285 | 26% | 0.1 |
| PECO | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Other Inst'l | Cooling Central | New | building | 1,950 | 0.3% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| PECO | <65k BTU/hr 14 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Other Inst'l | Cooling Unitary | Early | ton | 2,324 | 16% | 0.2 | 15 | \$1,545 | 29% | 0.3 |
| PECO | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Other Inst'l | Cooling Unitary | New | ton | 2,104 | 7.1% | 0.09 | 15 | \$339 | 29% | 0.5 |
| PECO | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Other Inst'l | Cooling Unitary | ROB | ton | 2,104 | 7.1% | 0.09 | 15 | \$339 | 29% | 0.5 |
| PECO | <65k BTU/hr 15 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Other Inst'l | Cooling Unitary | Early | ton | 2,324 | 22% | 0.3 | 15 | \$1,821 | 30% | 0.3 |
| PECO | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Other Inst'l | Cooling Unitary | New | ton | 2,104 | 13% | 0.2 | 15 | \$714 | 30% | 0.5 |
| PECO | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Other Inst'l | Cooling Unitary | ROB | ton | 2,104 | 13% | 0.2 | 15 | \$714 | 30% | 0.5 |
| PECO | <65k BTU/hr 16 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Other Inst'l | Cooling Unitary | Early | ton | 2,324 | 26% | 0.4 | 15 | \$2,098 | 31% | 0.4 |
| PECO | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Other Inst'l | Cooling Unitary | New | ton | 2,104 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.4 |
| PECO | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Other Inst'l | Cooling Unitary | ROB | ton | 2,104 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.4 |
| PECO | >760k min 10.2 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Other Inst'l | Cooling Unitary | Early | ton | 58,786 | 3.7% | 1.4 | 15 | \$68,066 | 56% | 0.0 |
| PECO | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Other Inst'l | Cooling Unitary | New | ton | 59,540 | 4.9% | 1.8 | 15 | \$6,231 | 56% | 0.6 |
| PECO | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Other Inst'l | Cooling Unitary | ROB | ton | 59,540 | 4.9% | 1.8 | 15 | \$6,231 | 56% | 0.6 |
| PECO | 135-240k min 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Other Inst'l | Cooling Unitary | Early | ton | 14,464 | 18% | 1.6 | 15 | \$18,135 | 79% | 0.2 |
| PECO | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Other Inst'l | Cooling Unitary | New | ton | 13,158 | 10.0% | 0.8 | 15 | \$1,948 | 79% | 0.8 |
| PECO | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Other Inst'l | Cooling Unitary | ROB | ton | 13,158 | 10.0% | 0.8 | 15 | \$1,948 | 79% | 0.8 |
| PECO | 240k-760k min 11 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Other Inst'l | Cooling Unitary | Early | ton | 38,675 | 9.0% | 2.2 | 15 | \$44,809 | 66% | 0.1 |
| PECO | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Other Inst'l | Cooling Unitary | New | ton | 38,771 | 9.3% | 2.2 | 15 | \$4,813 | 66% | 0.9 |
| PECO | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Other Inst'l | Cooling Unitary | ROB | ton | 38,771 | 9.3% | 2.2 | 15 | \$4,813 | 66% | 0.9 |
| PECO | 65k-135k BTU/hr 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Other Inst'l | Cooling Unitary | Early | ton | 8,527 | 17% | 0.9 | 15 | \$10,946 | 86% | 0.2 |
| PECO | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Other Inst'l | Cooling Unitary | New | ton | 7,599 | 6.7% | 0.3 | 15 | \$1,392 | 86% | 0.4 |
| PECO | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Other Inst'l | Cooling Unitary | ROB | ton | 7,599 | 6.7% | 0.3 | 15 | \$1,392 | 86% | 0.4 |
| PECO | Adding reflective roof treatment | Std color roof | Other Inst'l | Cooling Unitary | Existing | building | 23,263 | 7.1% | 0.07 | 6 | \$14,313 | 82% | 0.0 |
| PECO | Adding reflective roof treatment | Std color roof | Other Inst'l | Cooling Unitary | New | building | 23,263 | 7.0% | 0.07 | 6 | \$14,313 | 82% | 0.0 |
| PECO | Adding window shade film | No shade film | Other Inst'l | Cooling Unitary | Existing | building | 23,263 | 1.3% | 0.4 | 10 | \$283 | 12% | 1.5 |
| PECO | Adding window shade film | No shade film | Other Inst'l | Cooling Unitary | New | building | 23,263 | 1.3% | 0.4 | 10 | \$283 | 13% | 1.5 |
| PECO | Adding window shade screen | No shade screen | Other Inst'l | Cooling Unitary | Existing | building | 23,263 | 1.1% | 0.01 | 10 | \$110 | 12% | 1.0 |
| PECO | Adding window shade screen | No shade screen | Other Inst'l | Cooling Unitary | New | building | 23,263 | 1.1% | 0.01 | 10 | \$110 | 13% | 1.0 |
| PECO | Automated control system | Manual Controls | Other Inst'l | Cooling Unitary | Existing | building | 23,263 | 17% | 0.2 | 15 | \$25,468 | 51% | 0.1 |
| PECO | Automated control system | Manual Controls | Other Inst'l | Cooling Unitary | New | building | 23,263 | 17% | 0.2 | 15 | \$25,468 | 94% | 0.1 |
| PECO | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Other Inst'l | Cooling Unitary | Existing | building | 23,263 | 7.2% | 0.07 | 15 | \$17,130 | 71% | 0.1 |
| PECO | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Other Inst'l | Cooling Unitary | New | building | 23,263 | 2.4% | 0.02 | 15 | \$16,283 | 94% | 0.0 |
| PECO | Duct Insulation, Add R8 | No Insulation | Other Inst'l | Cooling Unitary | Existing | building | 23,263 | 1.4% | 0.04 | 15 | \$185 | 20% | 1.2 |
| PECO | Duct Insulation, Add R8 | No Insulation | Other Inst'l | Cooling Unitary | New | building | 23,263 | 1.4% | 0.04 | 15 | \$185 | 10% | 1.2 |
| PECO | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Other Inst'l | Cooling Unitary | Existing | building | 12,713 | 13% | 0.1 | 1 | \$122 | 73% | 0.7 |
| PECO | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Other Inst'l | Cooling Unitary | New | building | 12,713 | 13% | 0.1 | 1 | \$122 | 73% | 0.7 |
| PECO | ECM Motors for split systems | Std Shaded Pole Motor | Other Inst'l | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 3.2 |
| PECO | ECM Motors for split systems | Std Shaded Pole Motor | Other Inst'l | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 3.2 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Other Inst'l | Cooling Unitary | Existing | building | 23,263 | 7.1% | 0.07 | 15 | \$103,191 | 25% | 0.0 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Other Inst'l | Cooling Unitary | New | building | 23,263 | 7.1% | 0.07 | 15 | \$103,191 | 35% | 0.0 |
| PECO | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Other Inst'l | Cooling Unitary | Existing | building | 23,263 | 5.0% | 0.05 | 5 | \$225 | 59% | 1.2 |
| PECO | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Other Inst'l | Cooling Unitary | Existing | building | 23,263 | 1.1% | 0.01 | 10 | \$44,835 | 86% | 0.0 |
| PECO | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Other Inst'l | Cooling Unitary | New | building | 23,263 | 1.1% | 0.01 | 10 | \$44,835 | 86% | 0.0 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) | Other Inst'l | Cooling Unitary | Existing | building | 23,263 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.8 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Other Inst'l | Cooling Unitary | New | building | 23,263 | 1.7% | 0.02 | 11 | \$146 | 49% | 1.3 |
| PECO | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Other Inst'l | Cooling Unitary | Early | unit | 1,792 | 19% | 0.08 | 15 | \$849 | 85% | 0.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|--|---|--------------|-----------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Other Inst'l | Cooling Unitary | New | unit | 1,810 | 20% | 0.08 | 15 | \$356 | 85% | 0.8 |
| PECO | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Other Inst'l | Cooling Unitary | ROB | unit | 1,810 | 20% | 0.08 | 15 | \$356 | 85% | 0.8 |
| PECO | Re-Commissioning (Existing Construction) | No Re-Commissioning | Other Inst'l | Cooling Unitary | Existing | building | 23,263 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.1 |
| PECO | Room AC (w/ louvered sides) | Existing efficiency Room AC in Pennsylvania (2000 Federal Standards) | Other Inst'l | Cooling Unitary | Early | ton | 1,428 | 13% | 0.04 | 9 | \$348 | 82% | 0.3 |
| PECO | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Other Inst'l | Cooling Unitary | New | ton | 1,295 | 4.5% | 0.01 | 9 | \$17 | 82% | 1.8 |
| PECO | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Other Inst'l | Cooling Unitary | ROB | ton | 1,295 | 4.5% | 0.01 | 9 | \$17 | 82% | 1.8 |
| PECO | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Other Inst'l | Cooling Unitary | Existing | building | 23,263 | 13% | 0.1 | 15 | \$3,285 | 26% | 0.6 |
| PECO | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Other Inst'l | Cooling Unitary | New | building | 23,263 | 0.3% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| PECO | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Other Inst'l | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 1.1 |
| PECO | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Other Inst'l | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.4 |
| PECO | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Other Inst'l | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.4 |
| PECO | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Other Inst'l | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 0% | 0.2 |
| PECO | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Other Inst'l | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| PECO | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Other Inst'l | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| PECO | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Other Inst'l | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 75% | 0.3 |
| PECO | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Other Inst'l | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 75% | 0.2 |
| PECO | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Other Inst'l | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.6 |
| PECO | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Other Inst'l | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.0 |
| PECO | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Other Inst'l | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.6 |
| PECO | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Other Inst'l | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.0 |
| PECO | Photocell Controls (Outdoor) | Lighting w/ No Controls | Other Inst'l | Ext. Lighting | Existing | building | 79 | 28% | 0.3 | 8 | \$5,088 | 88% | 0.0 |
| PECO | Photocell Controls (Outdoor) | Lighting w/ No Controls | Other Inst'l | Ext. Lighting | New | building | 79 | 28% | 0.3 | 8 | \$5,088 | 0% | 0.0 |
| PECO | Adding reflective roof treatment | Std color roof | Other Inst'l | Heat Pump | Existing | building | 2,148 | 6.9% | 0.07 | 6 | \$14,313 | 82% | 0.0 |
| PECO | Adding reflective roof treatment | Std color roof | Other Inst'l | Heat Pump | New | building | 2,148 | 6.9% | 0.07 | 6 | \$14,313 | 82% | 0.0 |
| PECO | Adding window shade film | No shade film | Other Inst'l | Heat Pump | Existing | building | 2,148 | 3.9% | 0.4 | 10 | \$26 | 12% | 12.5 |
| PECO | Adding window shade film | No shade film | Other Inst'l | Heat Pump | New | building | 2,148 | 3.9% | 0.4 | 10 | \$26 | 12% | 12.5 |
| PECO | Adding window shade screen | No shade screen | Other Inst'l | Heat Pump | Existing | building | 2,148 | 0.3% | 0.01 | 10 | \$3.4 | 12% | 3.2 |
| PECO | Adding window shade screen | No shade screen | Other Inst'l | Heat Pump | New | building | 2,148 | 0.3% | 0.01 | 10 | \$3.4 | 12% | 3.2 |
| PECO | Automated control system | Manual Controls | Other Inst'l | Heat Pump | Existing | building | 2,148 | 17% | 0.2 | 15 | \$2,352 | 51% | 0.2 |
| PECO | Automated control system | Manual Controls | Other Inst'l | Heat Pump | New | building | 2,148 | 17% | 0.2 | 15 | \$2,352 | 94% | 0.2 |
| PECO | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Other Inst'l | Heat Pump | Existing | building | 2,148 | 7.2% | 0.07 | 15 | \$17,130 | 71% | 0.0 |
| PECO | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Other Inst'l | Heat Pump | New | building | 2,148 | 2.4% | 0.02 | 15 | \$16,283 | 94% | 0.0 |
| PECO | Duct Insulation, Add R8 | No Insulation | Other Inst'l | Heat Pump | Existing | building | 2,148 | 4.0% | 0.04 | 15 | \$17 | 12% | 5.3 |
| PECO | Duct Insulation, Add R8 | No Insulation | Other Inst'l | Heat Pump | New | building | 2,148 | 4.0% | 0.04 | 15 | \$17 | 6% | 5.3 |
| PECO | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Other Inst'l | Heat Pump | Early | heat pump | 2,374 | 13% | 0.07 | 15 | \$4,070 | 83% | 0.1 |
| PECO | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Other Inst'l | Heat Pump | New | heat pump | 2,249 | 7.7% | 0.04 | 15 | \$1,097 | 83% | 0.1 |
| PECO | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Other Inst'l | Heat Pump | ROB | heat pump | 2,249 | 7.7% | 0.04 | 15 | \$1,097 | 83% | 0.1 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Other Inst'l | Heat Pump | Existing | building | 2,148 | 7.0% | 0.07 | 15 | \$9,529 | 25% | 0.0 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Other Inst'l | Heat Pump | New | building | 2,148 | 7.0% | 0.07 | 15 | \$9,529 | 35% | 0.0 |
| PECO | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Other Inst'l | Heat Pump | Early | heat pump | 24,756 | 18% | 1.0 | 15 | \$91,117 | 19% | 0.0 |
| PECO | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Other Inst'l | Heat Pump | New | heat pump | 23,724 | 14% | 0.8 | 15 | \$33,927 | 19% | 0.1 |
| PECO | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Other Inst'l | Heat Pump | ROB | heat pump | 23,724 | 14% | 0.8 | 15 | \$33,927 | 19% | 0.1 |
| PECO | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Other Inst'l | Heat Pump | Early | heat pump | 24,756 | 18% | 1.0 | 15 | \$58,356 | 19% | 0.1 |
| PECO | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Other Inst'l | Heat Pump | New | heat pump | 23,724 | 14% | 0.8 | 15 | \$1,167 | 19% | 2.3 |
| PECO | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Other Inst'l | Heat Pump | ROB | heat pump | 23,724 | 14% | 0.8 | 15 | \$1,167 | 19% | 2.3 |
| PECO | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Other Inst'l | Heat Pump | Early | heat pump | 6,332 | 17% | 0.2 | 12 | \$4,298 | 81% | 0.2 |
| PECO | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Other Inst'l | Heat Pump | Early | heat pump | 6,332 | 25% | 0.4 | 12 | \$5,883 | 81% | 0.2 |
| PECO | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Other Inst'l | Heat Pump | New | heat pump | 5,997 | 13% | 0.2 | 12 | \$852 | 81% | 0.6 |
| PECO | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Other Inst'l | Heat Pump | New | heat pump | 5,997 | 21% | 0.3 | 12 | \$2,437 | 81% | 0.3 |
| PECO | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Other Inst'l | Heat Pump | ROB | heat pump | 5,997 | 13% | 0.2 | 12 | \$852 | 81% | 0.6 |
| PECO | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Other Inst'l | Heat Pump | ROB | heat pump | 5,997 | 21% | 0.3 | 12 | \$2,437 | 81% | 0.3 |
| PECO | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Other Inst'l | Heat Pump | Existing | building | 2,148 | 1.0% | 0.01 | 10 | \$39,918 | 81% | 0.0 |
| PECO | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Other Inst'l | Heat Pump | New | building | 2,148 | 1.0% | 0.01 | 10 | \$39,918 | 81% | 0.0 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Other Inst'l | Heat Pump | Existing | building | 2,148 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.2 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Other Inst'l | Heat Pump | New | building | 2,148 | 2.1% | 0.02 | 11 | \$146 | 49% | 0.3 |
| PECO | Re-Commissioning (Existing Construction) | No Re-Commissioning | Other Inst'l | Heat Pump | Existing | building | 2,148 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |
| PECO | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Other Inst'l | Heat Pump | Existing | building | 2,148 | 13% | 0.1 | 15 | \$3,285 | 26% | 0.1 |
| PECO | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Other Inst'l | Heat Pump | New | building | 2,148 | 0.3% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| PECO | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Other Inst'l | Heat Pump | Early | heat pump | 10,015 | 33% | 0.7 | 15 | \$35,347 | 28% | 0.1 |
| PECO | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Other Inst'l | Heat Pump | New | heat pump | 9,429 | 28% | 0.6 | 15 | \$15,739 | 28% | 0.1 |
| PECO | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Other Inst'l | Heat Pump | ROB | heat pump | 9,429 | 29% | 0.6 | 15 | \$15,739 | 28% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---|---|--------------|-------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 299 | 9.6% | 0.01 | 13 | \$850 | 39% | 0.0 |
| PECO | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Other Inst'l | High Bay Lighting | Early | Fixture | 299 | 9.5% | 0.01 | 13 | \$850 | 28% | 0.0 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 461 | 41% | 0.04 | 13 | \$850 | 36% | 0.2 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 227 | 9.6% | 0.00 | 13 | \$372 | 39% | 0.0 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 211 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 350 | 41% | 0.03 | 13 | \$397 | 36% | 0.3 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 299 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 278 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 461 | 41% | 0.04 | 13 | \$397 | 36% | 0.3 |
| PECO | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 580 | 19% | 0.02 | 13 | \$851 | 38% | 0.1 |
| PECO | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Other Inst'l | High Bay Lighting | Early | Fixture | 587 | 20% | 0.02 | 13 | \$851 | 38% | 0.1 |
| PECO | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 1,708 | 73% | 0.2 | 13 | \$851 | 38% | 1.0 |
| PECO | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 441 | 19% | 0.02 | 13 | \$372 | 38% | 0.2 |
| PECO | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 1,298 | 73% | 0.2 | 13 | \$383 | 38% | 1.7 |
| PECO | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 580 | 19% | 0.02 | 13 | \$372 | 38% | 0.2 |
| PECO | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 1,708 | 73% | 0.2 | 13 | \$383 | 38% | 2.2 |
| PECO | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 580 | 25% | 0.03 | 13 | \$554 | 29% | 0.2 |
| PECO | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Other Inst'l | High Bay Lighting | Early | Fixture | 569 | 23% | 0.03 | 13 | \$554 | 28% | 0.2 |
| PECO | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 1,708 | 74% | 0.2 | 13 | \$554 | 36% | 1.6 |
| PECO | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 441 | 25% | 0.02 | 13 | \$75 | 29% | 1.0 |
| PECO | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 1,298 | 74% | 0.2 | 13 | \$86 | 36% | 7.7 |
| PECO | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 580 | 25% | 0.03 | 13 | \$75 | 29% | 1.3 |
| PECO | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 1,708 | 74% | 0.2 | 13 | \$86 | 36% | 10.2 |
| PECO | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Other Inst'l | High Bay Lighting | Early | Fixture | 151 | 0.2% | 0.00 | 13 | \$835 | 38% | 0.0 |
| PECO | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 326 | 54% | 0.03 | 13 | \$835 | 38% | 0.1 |
| PECO | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 248 | 54% | 0.03 | 13 | \$382 | 38% | 0.2 |
| PECO | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 326 | 54% | 0.03 | 13 | \$382 | 38% | 0.3 |
| PECO | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 739 | 18% | 0.03 | 13 | \$487 | 25% | 0.2 |
| PECO | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Other Inst'l | High Bay Lighting | Early | Fixture | 773 | 22% | 0.03 | 13 | \$487 | 28% | 0.2 |
| PECO | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 1,708 | 65% | 0.2 | 13 | \$487 | 36% | 1.6 |
| PECO | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 562 | 18% | 0.02 | 13 | \$16 | 25% | 4.3 |
| PECO | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 1,298 | 65% | 0.2 | 13 | \$18 | 36% | 31.3 |
| PECO | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 739 | 18% | 0.03 | 13 | \$16 | 25% | 5.7 |
| PECO | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 1,708 | 65% | 0.2 | 13 | \$18 | 36% | 41.2 |
| PECO | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 739 | 1.5% | 0.00 | 13 | \$557 | 19% | 0.0 |
| PECO | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Other Inst'l | High Bay Lighting | Early | Fixture | 761 | 4.3% | 0.01 | 13 | \$557 | 19% | 0.0 |
| PECO | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 1,708 | 57% | 0.2 | 13 | \$557 | 19% | 1.2 |
| PECO | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 562 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| PECO | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 1,298 | 57% | 0.1 | 13 | \$88 | 19% | 5.8 |
| PECO | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 739 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| PECO | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 1,708 | 57% | 0.2 | 13 | \$88 | 19% | 7.6 |
| PECO | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 314 | 29% | 0.01 | 13 | \$492 | 71% | 0.1 |
| PECO | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 262 | 15% | 0.01 | 13 | \$492 | 95% | 0.1 |
| PECO | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 390 | 43% | 0.02 | 13 | \$492 | 95% | 0.2 |
| PECO | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 361 | 38% | 0.02 | 13 | \$492 | 95% | 0.2 |
| PECO | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 199 | 15% | 0.00 | 13 | \$25 | 95% | 0.8 |
| PECO | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 296 | 43% | 0.02 | 13 | \$51 | 95% | 1.6 |
| PECO | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 262 | 15% | 0.01 | 13 | \$25 | 95% | 1.0 |
| PECO | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 390 | 43% | 0.02 | 13 | \$51 | 95% | 2.1 |
| PECO | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Other Inst'l | High Bay Lighting | Early | lamp | 86 | 16% | 0.00 | 12 | \$7.7 | 99% | 1.2 |
| PECO | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Other Inst'l | High Bay Lighting | New | lamp | 51 | 13% | 0.00 | 12 | \$1.6 | 91% | 2.7 |
| PECO | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Other Inst'l | High Bay Lighting | ROB | lamp | 82 | 13% | 0.00 | 12 | \$1.6 | 91% | 4.4 |
| PECO | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 1,748 | 23% | 0.08 | 13 | \$613 | 5% | 0.4 |
| PECO | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Other Inst'l | High Bay Lighting | Early | Fixture | 1,373 | 1.6% | 0.00 | 13 | \$613 | 28% | 0.0 |
| PECO | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 3,417 | 60% | 0.4 | 13 | \$613 | 18% | 2.3 |
| PECO | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 1,329 | 23% | 0.06 | 13 | \$96 | 5% | 2.2 |
| PECO | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 1,748 | 23% | 0.08 | 13 | \$96 | 5% | 2.8 |
| PECO | Auto Off Time Switch | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | Existing | building | 404 | 24% | 0.2 | 8 | \$1,034 | 13% | 0.2 |
| PECO | Auto Off Time Switch | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | New | building | 404 | 6.9% | 0.07 | 8 | \$1,034 | 0% | 0.1 |
| PECO | Central Lighting Control System | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | Existing | building | 404 | 38% | 0.4 | 8 | \$1,034 | 13% | 0.3 |
| PECO | Central Lighting Control System | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | New | building | 404 | 14% | 0.1 | 8 | \$1,034 | 13% | 0.1 |
| PECO | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Other Inst'l | High Bay Lighting | New | building | 404 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.0 |
| PECO | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Other Inst'l | High Bay Lighting | New | building | 404 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |
| PECO | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Other Inst'l | High Bay Lighting | New | building | 404 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| PECO | Indoor Daylight Sensors | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | Existing | building | 404 | 28% | 0.3 | 8 | \$5,088 | 13% | 0.0 |
| PECO | Indoor Daylight Sensors | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | New | building | 404 | 4.0% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| PECO | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 1,748 | 92% | 0.3 | 13 | \$1,916 | 95% | 0.6 |
| PECO | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 3,417 | 96% | 0.6 | 13 | \$1,916 | 95% | 1.2 |
| PECO | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 1,329 | 92% | 0.2 | 13 | \$1,468 | 95% | 0.6 |
| PECO | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 2,597 | 96% | 0.5 | 13 | \$1,149 | 95% | 1.5 |
| PECO | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 1,748 | 92% | 0.3 | 13 | \$1,468 | 95% | 0.8 |
| PECO | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 3,417 | 96% | 0.6 | 13 | \$1,149 | 95% | 2.0 |
| PECO | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 580 | 67% | 0.07 | 13 | \$960 | 95% | 0.3 |
| PECO | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 1,708 | 89% | 0.3 | 13 | \$960 | 95% | 1.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---|--|--------------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 469 | 59% | 0.05 | 13 | \$960 | 95% | 0.2 |
| PECO | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 441 | 67% | 0.06 | 13 | \$480 | 95% | 0.4 |
| PECO | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 1,298 | 89% | 0.2 | 13 | \$491 | 95% | 1.6 |
| PECO | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 356 | 59% | 0.04 | 13 | \$406 | 95% | 0.4 |
| PECO | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 580 | 67% | 0.07 | 13 | \$480 | 95% | 0.6 |
| PECO | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 1,708 | 89% | 0.3 | 13 | \$491 | 95% | 2.1 |
| PECO | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 469 | 59% | 0.05 | 13 | \$406 | 95% | 0.5 |
| PECO | Occupancy Sensor | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | Existing | building | 404 | 24% | 0.07 | 8 | \$1,558 | 11% | 0.1 |
| PECO | Occupancy Sensor | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | New | building | 404 | 6.9% | 0.07 | 8 | \$1,558 | 0% | 0.0 |
| PECO | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | Existing | building | 404 | 28% | 0.3 | 8 | \$5,088 | 11% | 0.0 |
| PECO | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | New | building | 404 | 4.0% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| PECO | Time Clock Control | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | Existing | building | 404 | 28% | 0.3 | 8 | \$1,034 | 13% | 0.2 |
| PECO | Time Clock Control | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | New | building | 404 | 4.0% | 0.04 | 8 | \$1,034 | 0% | 0.0 |
| PECO | Auto Off Time Switch | Lighting w/ No Controls | Other Inst'l | Lin. Fluor. Lighting | Existing | building | 15,905 | 24% | 0.2 | 8 | \$1,034 | 13% | 1.4 |
| PECO | Auto Off Time Switch | Lighting w/ No Controls | Other Inst'l | Lin. Fluor. Lighting | New | building | 15,905 | 7.0% | 0.07 | 8 | \$1,034 | 0% | 0.4 |
| PECO | Central Lighting Control System | Lighting w/ No Controls | Other Inst'l | Lin. Fluor. Lighting | Existing | building | 15,905 | 38% | 0.4 | 8 | \$1,034 | 12% | 2.2 |
| PECO | Central Lighting Control System | Lighting w/ No Controls | Other Inst'l | Lin. Fluor. Lighting | New | building | 15,905 | 14% | 0.1 | 8 | \$1,034 | 12% | 0.8 |
| PECO | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Other Inst'l | Lin. Fluor. Lighting | New | building | 15,905 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.0 |
| PECO | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Other Inst'l | Lin. Fluor. Lighting | New | building | 15,905 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |
| PECO | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Other Inst'l | Lin. Fluor. Lighting | New | building | 15,905 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| PECO | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Other Inst'l | Lin. Fluor. Lighting | Early | Lamp | 172 | 38% | 0.01 | 12 | \$7.3 | 94% | 5.8 |
| PECO | Indoor Daylight Sensors | Lighting w/ No Controls | Other Inst'l | Lin. Fluor. Lighting | Existing | building | 15,905 | 28% | 0.3 | 8 | \$5,088 | 13% | 0.3 |
| PECO | Indoor Daylight Sensors | Lighting w/ No Controls | Other Inst'l | Lin. Fluor. Lighting | New | building | 15,905 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | Early | Lamp | 38 | 19% | 0.00 | 15 | \$35 | 94% | 0.2 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 40W T12 Lamp, Magnetic Ballast | Other Inst'l | Lin. Fluor. Lighting | Early | Lamp | 83 | 63% | 0.01 | 15 | \$35 | 94% | 1.1 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | Early | Lamp | 46 | 34% | 0.00 | 15 | \$35 | 94% | 0.3 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | Early | Lamp | 45 | 32% | 0.00 | 15 | \$35 | 94% | 0.3 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | New | Lamp | 29 | 19% | 0.00 | 15 | \$28 | 94% | 0.1 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | New | Lamp | 34 | 32% | 0.00 | 15 | \$29 | 94% | 0.3 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | New | Lamp | 35 | 34% | 0.00 | 15 | \$22 | 94% | 0.4 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | New | Lamp | 34 | 32% | 0.00 | 15 | \$29 | 94% | 0.3 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | ROB | Lamp | 38 | 19% | 0.00 | 15 | \$28 | 94% | 0.2 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | ROB | Lamp | 45 | 32% | 0.00 | 15 | \$29 | 94% | 0.4 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | ROB | Lamp | 46 | 34% | 0.00 | 15 | \$22 | 94% | 0.6 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | ROB | Lamp | 45 | 32% | 0.00 | 15 | \$29 | 94% | 0.4 |
| PECO | Occupancy Sensor | Lighting w/ No Controls | Other Inst'l | Lin. Fluor. Lighting | Existing | building | 15,905 | 24% | 0.2 | 8 | \$1,558 | 12% | 0.9 |
| PECO | Occupancy Sensor | Lighting w/ No Controls | Other Inst'l | Lin. Fluor. Lighting | New | building | 15,905 | 7.0% | 0.07 | 8 | \$1,558 | 0% | 0.3 |
| PECO | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Other Inst'l | Lin. Fluor. Lighting | Existing | building | 15,905 | 28% | 0.3 | 8 | \$5,088 | 11% | 0.3 |
| PECO | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Other Inst'l | Lin. Fluor. Lighting | New | building | 15,905 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 40W T12 w/ Magnetic Ballast | Other Inst'l | Lin. Fluor. Lighting | Early | Lamp | 172 | 54% | 0.02 | 12 | \$9.1 | 94% | 6.7 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | Early | Lamp | 110 | 28% | 0.01 | 12 | \$9.1 | 24% | 2.2 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | Early | Lamp | 107 | 26% | 0.01 | 12 | \$9.1 | 94% | 2.0 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | New | Lamp | 81 | 26% | 0.00 | 12 | \$2.5 | 94% | 5.4 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | New | Lamp | 81 | 26% | 0.00 | 12 | \$2.5 | 94% | 5.4 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | New | Lamp | 84 | 28% | 0.00 | 12 | \$2.5 | 24% | 6.1 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | New | Lamp | 81 | 26% | 0.00 | 12 | \$2.5 | 94% | 5.4 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | ROB | Lamp | 107 | 26% | 0.01 | 12 | \$2.5 | 94% | 7.1 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | ROB | Lamp | 107 | 26% | 0.01 | 12 | \$2.5 | 94% | 7.1 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | ROB | Lamp | 110 | 28% | 0.01 | 12 | \$2.5 | 24% | 8.0 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | ROB | Lamp | 107 | 26% | 0.01 | 12 | \$2.5 | 94% | 7.1 |
| PECO | T8 Lamp (any length) Electronic Ballast | Standard T12 lamp (any length) | Other Inst'l | Lin. Fluor. Lighting | Early | Lamp | 202 | 42% | 0.02 | 12 | \$14 | 94% | 4.0 |
| PECO | Time Clock Control | Lighting w/ No Controls | Other Inst'l | Lin. Fluor. Lighting | Existing | building | 15,905 | 28% | 0.3 | 8 | \$1,034 | 14% | 1.6 |
| PECO | Time Clock Control | Lighting w/ No Controls | Other Inst'l | Lin. Fluor. Lighting | New | building | 15,905 | 4.1% | 0.04 | 8 | \$1,034 | 0% | 0.2 |
| PECO | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | Early | motor | 3,488 | 3.6% | 0.01 | 15 | \$374 | 76% | 0.2 |
| PECO | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | Early | motor | 3,488 | 3.6% | 0.01 | 15 | \$374 | 76% | 0.2 |
| PECO | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | Early | motor | 3,488 | 3.6% | 0.01 | 15 | \$374 | 76% | 0.2 |
| PECO | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | Early | motor | 3,488 | 3.6% | 0.01 | 15 | \$374 | 76% | 0.2 |
| PECO | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | Early | motor | 3,488 | 3.6% | 0.01 | 15 | \$374 | 76% | 0.2 |
| PECO | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | New | motor | 3,382 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| PECO | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | New | motor | 3,382 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| PECO | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | New | motor | 3,382 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| PECO | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | New | motor | 3,382 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| PECO | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Other Inst'l | Motors | New | motor | 3,382 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---|--|--------------|---------------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | VFD on HVAC Fan | Motor w/out VFD | Other Inst'l | Motors | Early | motor | 18,724 | 70% | 3.4 | 15 | \$2,903 | 86% | 3.7 |
| PECO | VFD on HVAC Fan | Motor w/out VFD | Other Inst'l | Motors | New | motor | 18,373 | 72% | 3.3 | 15 | \$2,843 | 86% | 3.8 |
| PECO | VFD on HVAC Fan | Motor w/out VFD | Other Inst'l | Motors | ROB | motor | 18,373 | 72% | 3.3 | 15 | \$2,843 | 86% | 3.8 |
| PECO | Variable Speed Drives on Process Equipment | Constant speed control | Other Inst'l | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 11.8 |
| PECO | Variable Speed Drives on Process Equipment | Constant speed control | Other Inst'l | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 11.8 |
| PECO | Auto Off Time Switch | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | Existing | building | 6,457 | 24% | 0.2 | 8 | \$1,034 | 13% | 0.7 |
| PECO | Auto Off Time Switch | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | New | building | 6,457 | 7.0% | 0.07 | 8 | \$1,034 | 0% | 0.2 |
| PECO | Central Lighting Control System | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | Existing | building | 6,457 | 38% | 0.4 | 8 | \$1,034 | 13% | 1.0 |
| PECO | Central Lighting Control System | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | New | building | 6,457 | 14% | 0.1 | 8 | \$1,034 | 13% | 0.4 |
| PECO | Cold Cathode Screw-In Bulb | 40W Incandescent Bulb | Other Inst'l | Other Int. Lighting | Early | lamp | 87 | 87% | 0.01 | 15 | \$30 | 14% | 1.9 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | Early | lamp | 62 | 81% | 0.01 | 15 | \$30 | 11% | 1.3 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | New | lamp | 47 | 81% | 0.01 | 15 | \$21 | 14% | 1.4 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | New | lamp | 47 | 81% | 0.01 | 15 | \$23 | 14% | 1.3 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | New | lamp | 47 | 81% | 0.01 | 15 | \$22 | 11% | 1.3 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | ROB | lamp | 62 | 81% | 0.01 | 15 | \$21 | 14% | 1.8 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | ROB | lamp | 62 | 81% | 0.01 | 15 | \$23 | 14% | 1.7 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | ROB | lamp | 62 | 81% | 0.01 | 15 | \$22 | 11% | 1.7 |
| PECO | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Other Inst'l | Other Int. Lighting | Early | lamp | 87 | 75% | 0.01 | 7 | \$73 | 18% | 0.4 |
| PECO | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Other Inst'l | Other Int. Lighting | New | fixture | 95 | 65% | 0.01 | 13 | \$29 | 21% | 1.4 |
| PECO | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | New | lamp | 47 | 65% | 0.01 | 7 | \$29 | 21% | 0.4 |
| PECO | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Other Inst'l | Other Int. Lighting | ROB | fixture | 125 | 65% | 0.01 | 13 | \$29 | 18% | 1.9 |
| PECO | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | ROB | lamp | 62 | 65% | 0.01 | 7 | \$29 | 18% | 0.6 |
| PECO | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Other Inst'l | Other Int. Lighting | Early | lamp | 87 | 75% | 0.01 | 7 | \$3.2 | 20% | 8.2 |
| PECO | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | New | lamp | 47 | 65% | 0.01 | 7 | \$1.8 | 20% | 7.0 |
| PECO | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | ROB | lamp | 62 | 65% | 0.01 | 7 | \$1.8 | 20% | 9.2 |
| PECO | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | ROB | lamp | 62 | 65% | 0.01 | 7 | \$1.8 | 20% | 9.2 |
| PECO | Exit Sign Retrofit: CFL replacing Incandescent | One 23W Single Sided Incandescent Exit Sign | Other Inst'l | Other Int. Lighting | Early | exit sign | 139 | 42% | 0.01 | 15 | \$48 | 22% | 0.8 |
| PECO | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Other Inst'l | Other Int. Lighting | New | building | 6,457 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.0 |
| PECO | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Other Inst'l | Other Int. Lighting | New | building | 6,457 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |
| PECO | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Other Inst'l | Other Int. Lighting | New | building | 6,457 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| PECO | Indoor Daylight Sensors | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | Existing | building | 6,457 | 28% | 0.3 | 8 | \$5,088 | 13% | 0.2 |
| PECO | Indoor Daylight Sensors | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | New | building | 6,457 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| PECO | LED Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Other Inst'l | Other Int. Lighting | Early | sign | 153 | 87% | 0.02 | 15 | \$48 | 16% | 1.9 |
| PECO | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Other Inst'l | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 2.1 |
| PECO | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Other Inst'l | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 2.1 |
| PECO | LED Task Lighting/Screw-In | 1 15W CFL bulb | Other Inst'l | Other Int. Lighting | Early | lamp | 22 | 33% | 0.00 | 15 | \$9.6 | 20% | 0.6 |
| PECO | LED Task Lighting/Screw-In | 1 60W Incandescent Bulb | Other Inst'l | Other Int. Lighting | Early | lamp | 89 | 83% | 0.01 | 15 | \$9.6 | 20% | 5.7 |
| PECO | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Other Inst'l | Other Int. Lighting | New | lamp | 49 | 77% | 0.01 | 15 | \$7.9 | 20% | 3.5 |
| PECO | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Other Inst'l | Other Int. Lighting | New | lamp | 49 | 77% | 0.01 | 15 | \$7.9 | 20% | 3.5 |
| PECO | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Other Inst'l | Other Int. Lighting | ROB | lamp | 64 | 77% | 0.01 | 15 | \$7.9 | 20% | 4.6 |
| PECO | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Other Inst'l | Other Int. Lighting | ROB | lamp | 64 | 77% | 0.01 | 15 | \$7.9 | 20% | 4.6 |
| PECO | Occupancy Sensor | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | Existing | building | 6,457 | 24% | 0.2 | 8 | \$1,558 | 11% | 0.4 |
| PECO | Occupancy Sensor | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | New | building | 6,457 | 7.0% | 0.07 | 8 | \$1,558 | 0% | 0.1 |
| PECO | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | Existing | building | 6,457 | 28% | 0.3 | 8 | \$5,088 | 11% | 0.2 |
| PECO | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | New | building | 6,457 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| PECO | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Other Inst'l | Other Int. Lighting | Early | exit sign | 139 | 100% | 0.02 | 15 | \$173 | 26% | 0.6 |
| PECO | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Other Inst'l | Other Int. Lighting | New | exit sign | 80 | 100% | 0.01 | 15 | \$148 | 31% | 0.4 |
| PECO | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Other Inst'l | Other Int. Lighting | ROB | exit sign | 80 | 100% | 0.01 | 15 | \$148 | 26% | 0.4 |
| PECO | Time Clock Control | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | Existing | building | 6,457 | 28% | 0.3 | 8 | \$1,034 | 13% | 0.8 |
| PECO | Time Clock Control | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | New | building | 6,457 | 4.1% | 0.04 | 8 | \$1,034 | 0% | 0.1 |
| PECO | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Other Inst'l | Plug Load | Existing | building | 2,913 | 46% | 0.5 | 5 | \$189 | 4% | 2.6 |
| PECO | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Other Inst'l | Plug Load | New | building | 1,422 | 46% | 0.5 | 5 | \$189 | 4% | 1.8 |
| PECO | Data Center - Server/Storage Consolidation | No Consolidation | Other Inst'l | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PECO | Data Center - Server/Storage Consolidation | No Consolidation | Other Inst'l | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PECO | Data Center - Server/Storage Virtualization | No Virtualization | Other Inst'l | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PECO | Data Center - Server/Storage Virtualization | No Virtualization | Other Inst'l | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PECO | Energy Star - Scanners | Std Scanner | Other Inst'l | Plug Load | New | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| PECO | Energy Star - Scanners | Std Scanner | Other Inst'l | Plug Load | ROB | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| PECO | Energy Star Dishwasher | Existing Dishwasher units | Other Inst'l | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,580 | 1% | 1.1 |
| PECO | Energy Star Dishwasher | Standard Dishwasher unit | Other Inst'l | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 1% | 3.6 |
| PECO | Energy Star Dishwasher | Standard Dishwasher unit | Other Inst'l | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 1% | 3.6 |
| PECO | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Other Inst'l | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 17% | 0.2 |
| PECO | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Other Inst'l | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.3 |
| PECO | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Other Inst'l | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.3 |
| PECO | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Other Inst'l | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 9% | 0.8 |
| PECO | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Other Inst'l | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.8 |
| PECO | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Other Inst'l | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.8 |
| PECO | ENERGY STAR® Copiers | 10% Less Efficient Copier | Other Inst'l | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 18% | 0.0 |
| PECO | ENERGY STAR® Copiers | One Conventional Copier | Other Inst'l | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| PECO | ENERGY STAR® Copiers | One Conventional Copier | Other Inst'l | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---|---|--------------|---------------|----------|-------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | ENERGY STAR® desktop | Standard computer | Other Inst'l | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 69% | 0.1 |
| PECO | ENERGY STAR® desktop | Standard computer | Other Inst'l | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.4 |
| PECO | ENERGY STAR® desktop | Standard computer | Other Inst'l | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.4 |
| PECO | ENERGY STAR® Fax | 10% Less Efficient Fax | Other Inst'l | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 15% | 0.0 |
| PECO | ENERGY STAR® Fax | One Conventional Fax | Other Inst'l | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| PECO | ENERGY STAR® Fax | One Conventional Fax | Other Inst'l | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| PECO | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Other Inst'l | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 70% | 0.0 |
| PECO | ENERGY STAR® Monitors | One Conventional Monitor | Other Inst'l | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| PECO | ENERGY STAR® Monitors | One Conventional Monitor | Other Inst'l | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| PECO | ENERGY STAR® Printers | 10% Less Efficient Printer | Other Inst'l | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 44% | 0.0 |
| PECO | ENERGY STAR® Printers | One Conventional Printer | Other Inst'l | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.4 |
| PECO | ENERGY STAR® Printers | One Conventional Printer | Other Inst'l | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.4 |
| PECO | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Other Inst'l | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 43% | 0.1 |
| PECO | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Other Inst'l | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.8 |
| PECO | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Other Inst'l | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.8 |
| PECO | ENERGY STAR® Televisions | 10% Less Efficient Television | Other Inst'l | Plug Load | Early | Unit | 111 | 38% | 0.01 | 6 | \$672 | 40% | 0.0 |
| PECO | ENERGY STAR® Televisions | One Conventional Television | Other Inst'l | Plug Load | New | Unit | 101 | 32% | 0.01 | 6 | \$206 | 40% | 0.1 |
| PECO | ENERGY STAR® Televisions | One Conventional Television | Other Inst'l | Plug Load | ROB | Unit | 101 | 32% | 0.01 | 6 | \$206 | 40% | 0.1 |
| PECO | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Other Inst'l | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 24% | 0.3 |
| PECO | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Other Inst'l | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.7 |
| PECO | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Other Inst'l | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.7 |
| PECO | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Other Inst'l | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.3 |
| PECO | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Other Inst'l | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.3 |
| PECO | Network PC Power Management | No PC Power Management | Other Inst'l | Plug Load | Existing | building | 425 | 33% | 0.3 | 5 | \$12 | 38% | 25.7 |
| PECO | Network PC Power Management | No PC Power Management | Other Inst'l | Plug Load | New | building | 425 | 33% | 0.3 | 5 | \$12 | 38% | 25.7 |
| PECO | Smart Strip Plug Outlets | Standard plug strip/outlet | Other Inst'l | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.4 |
| PECO | Smart Strip Plug Outlets | Standard plug strip/outlet | Other Inst'l | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.4 |
| PECO | Smart Strip Plug Outlets | Standard plug strip/outlet | Other Inst'l | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PECO | Smart Strip Plug Outlets | Standard plug strip/outlet | Other Inst'l | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PECO | Smart Strip Plug Outlets | Standard plug strip/outlet | Other Inst'l | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PECO | Smart Strip Plug Outlets | Standard plug strip/outlet | Other Inst'l | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PECO | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Other Inst'l | Plug Load | Existing | building | 2,913 | 46% | 0.5 | 5 | \$180 | 3% | 2.7 |
| PECO | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Other Inst'l | Plug Load | New | building | 1,422 | 46% | 0.5 | 5 | \$180 | 3% | 1.9 |
| PECO | Auto Closer on Refrigerator Door | Door w/out Autocloser | Other Inst'l | Refrigeration | Existing | building | 2,338 | 53% | 0.5 | 8 | \$747 | 40% | 1.0 |
| PECO | Auto Closer on Refrigerator Door | Door w/out Autocloser | Other Inst'l | Refrigeration | Existing | building | 2,174 | 31% | 0.3 | 8 | \$763 | 40% | 0.5 |
| PECO | Auto Closer on Refrigerator Door | Door w/out Autocloser | Other Inst'l | Refrigeration | New | building | 2,338 | 53% | 0.5 | 8 | \$747 | 40% | 1.0 |
| PECO | Auto Closer on Refrigerator Door | Door w/out Autocloser | Other Inst'l | Refrigeration | New | building | 2,174 | 31% | 0.3 | 8 | \$763 | 40% | 0.5 |
| PECO | Door Gasket- Freezer | Door w/out Gasket | Other Inst'l | Refrigeration | Existing | building | 2,338 | 29% | 0.3 | 4 | \$77 | 29% | 2.8 |
| PECO | Door Gasket- Freezer | Door w/out Gasket | Other Inst'l | Refrigeration | New | building | 2,338 | 32% | 0.3 | 4 | \$77 | 29% | 3.1 |
| PECO | Door Gasket- Refrigerator | Door w/out Gasket | Other Inst'l | Refrigeration | Existing | building | 2,174 | 9.5% | 0.10 | 4 | \$105 | 45% | 0.7 |
| PECO | Door Gasket- Refrigerator | Door w/out Gasket | Other Inst'l | Refrigeration | New | building | 2,174 | 9.5% | 0.10 | 4 | \$105 | 45% | 0.7 |
| PECO | eCube | Refrigeration unit w/out eCube | Other Inst'l | Refrigeration | Existing | building | 2,174 | 15% | 0.2 | 15 | \$700 | 57% | 0.5 |
| PECO | eCube | Refrigeration unit w/out eCube | Other Inst'l | Refrigeration | New | building | 2,174 | 15% | 0.2 | 15 | \$700 | 57% | 0.5 |
| PECO | Efficient compressor motor | Base Refrigeration System - Grocery | Other Inst'l | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| PECO | Efficient compressor motor | Base Refrigeration System - Grocery | Other Inst'l | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| PECO | Efficient compressor motor | Base Refrigeration System - Grocery | Other Inst'l | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| PECO | Efficient compressor motor | Base Refrigeration System - Grocery | Other Inst'l | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| PECO | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Other Inst'l | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.6 |
| PECO | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Other Inst'l | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| PECO | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Other Inst'l | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| PECO | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Other Inst'l | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.3 |
| PECO | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Other Inst'l | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.8 |
| PECO | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Other Inst'l | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.8 |
| PECO | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Other Inst'l | Refrigeration | Existing | building | 2,174 | 3.4% | 0.03 | 10 | \$369 | 77% | 0.1 |
| PECO | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Other Inst'l | Refrigeration | New | building | 2,174 | 3.4% | 0.03 | 10 | \$369 | 77% | 0.1 |
| PECO | Floating head pressure controller | System w/out FHPC | Other Inst'l | Refrigeration | Existing | building | 2,338 | 9.9% | 0.05 | 15 | \$8,682 | 41% | 0.0 |
| PECO | Floating head pressure controller | System w/out FHPC | Other Inst'l | Refrigeration | Existing | building | 2,174 | 3.7% | 0.02 | 15 | \$8,682 | 41% | 0.0 |
| PECO | Floating head pressure controller | System w/out FHPC | Other Inst'l | Refrigeration | New | building | 2,338 | 9.9% | 0.05 | 15 | \$8,682 | 41% | 0.0 |
| PECO | Floating head pressure controller | System w/out FHPC | Other Inst'l | Refrigeration | New | building | 2,174 | 3.7% | 0.02 | 15 | \$8,682 | 41% | 0.0 |
| PECO | High Efficiency Commercial Freezer | Std. Commercial Freezer | Other Inst'l | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 86% | 0.3 |
| PECO | High Efficiency Commercial Freezer | Std. Commercial Freezer | Other Inst'l | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 4.2 |
| PECO | High Efficiency Commercial Freezer | Std. Commercial Freezer | Other Inst'l | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 4.2 |
| PECO | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Other Inst'l | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 2% | 0.1 |
| PECO | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Other Inst'l | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.9 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---|---|--------------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Other Inst'l | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.9 |
| PECO | High Efficiency Ice Maker | Exisiting Standard Efficiency Ice Maker in Pennsylvania | Other Inst'l | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 73% | 0.2 |
| PECO | High Efficiency Ice Maker | Standard code minimum Ice Maker | Other Inst'l | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| PECO | High Efficiency Ice Maker | Standard code minimum Ice Maker | Other Inst'l | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| PECO | High Efficiency Ice Making Head | Standard Ice Making Head | Other Inst'l | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 4.1 |
| PECO | High Efficiency Ice Making Head | Standard Ice Making Head | Other Inst'l | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 4.1 |
| PECO | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Other Inst'l | Refrigeration | Early | Fixture | 373 | 56% | 0.01 | 8 | \$448 | 47% | 0.2 |
| PECO | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Other Inst'l | Refrigeration | New | Fixture | 291 | 44% | 0.00 | 8 | \$139 | 47% | 0.3 |
| PECO | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Other Inst'l | Refrigeration | ROB | Fixture | 291 | 44% | 0.00 | 8 | \$139 | 47% | 0.3 |
| PECO | Quick acting freezer doors | Std. Freezer Doors | Other Inst'l | Refrigeration | Existing | building | 2,338 | 13% | 0.1 | 10 | \$371 | 56% | 0.6 |
| PECO | Quick acting freezer doors | Std. Freezer Doors | Other Inst'l | Refrigeration | New | building | 2,338 | 13% | 0.1 | 10 | \$371 | 56% | 0.6 |
| PECO | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Other Inst'l | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 30% | 0.4 |
| PECO | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Other Inst'l | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.6 |
| PECO | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Other Inst'l | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.6 |
| PECO | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 30% | 1.7 |
| PECO | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 3.0 |
| PECO | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 3.0 |
| PECO | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 30% | 1.7 |
| PECO | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 4.0 |
| PECO | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 4.0 |
| PECO | Refrigeration Commissioning | Non-commissioned refrigeration system | Other Inst'l | Refrigeration | Existing | building | 4,676 | 9.5% | 0.10 | 3 | \$1,204 | 85% | 0.1 |
| PECO | Refrigeration Commissioning | Non-commissioned refrigeration system | Other Inst'l | Refrigeration | New | building | 4,676 | 9.5% | 0.10 | 3 | \$1,204 | 85% | 0.1 |
| PECO | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Other Inst'l | Refrigeration | Existing | building | 2,338 | 59% | 0.6 | 4 | \$80 | 22% | 5.5 |
| PECO | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Other Inst'l | Refrigeration | Existing | building | 2,174 | 12% | 0.1 | 4 | \$117 | 22% | 0.8 |
| PECO | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Other Inst'l | Refrigeration | New | building | 2,338 | 59% | 0.6 | 4 | \$80 | 22% | 5.5 |
| PECO | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Other Inst'l | Refrigeration | New | building | 2,174 | 12% | 0.1 | 4 | \$117 | 22% | 0.8 |
| PECO | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Other Inst'l | Refrigeration | Existing | building | 2,338 | 12% | 0.1 | 11 | \$119 | 79% | 1.8 |
| PECO | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Other Inst'l | Refrigeration | New | building | 2,338 | 12% | 0.1 | 11 | \$119 | 79% | 1.8 |
| PECO | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Other Inst'l | Refrigeration | Existing | building | 2,174 | 8.9% | 0.09 | 11 | \$119 | 79% | 1.3 |
| PECO | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Other Inst'l | Refrigeration | New | building | 2,174 | 8.9% | 0.09 | 11 | \$119 | 79% | 1.3 |
| PECO | VSD Controlled Compressor | Compressor w/out VSD | Other Inst'l | Refrigeration | Early | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.2 |
| PECO | VSD Controlled Compressor | Compressor w/out VSD | Other Inst'l | Refrigeration | New | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.2 |
| PECO | VSD Controlled Compressor | Compressor w/out VSD | Other Inst'l | Refrigeration | ROB | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.2 |
| PECO | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Other Inst'l | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$269 | 35% | 0.9 |
| PECO | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Other Inst'l | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$269 | 35% | 0.9 |
| PECO | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Other Inst'l | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.2 |
| PECO | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Other Inst'l | Refrigeration | New | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 3.0 |
| PECO | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Other Inst'l | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.2 |
| PECO | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Other Inst'l | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 3.0 |
| PECO | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 35% | 2.4 |
| PECO | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 35% | 2.3 |
| PECO | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 5.2 |
| PECO | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.9 |
| PECO | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 5.2 |
| PECO | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.9 |
| PECO | Adding reflective roof treatment | Std color roof | Other Inst'l | Space Heating | Existing | building | 5,237 | 7.1% | 0.07 | 6 | \$14,313 | 82% | 0.0 |
| PECO | Adding reflective roof treatment | Std color roof | Other Inst'l | Space Heating | New | building | 5,237 | 7.1% | 0.07 | 6 | \$14,313 | 82% | 0.0 |
| PECO | Adding window shade film | No shade film | Other Inst'l | Space Heating | Existing | building | 5,237 | 1.3% | 0.4 | 10 | \$64 | 13% | 5.0 |
| PECO | Adding window shade film | No shade film | Other Inst'l | Space Heating | New | building | 5,237 | 1.3% | 0.4 | 10 | \$64 | 13% | 5.0 |
| PECO | Adding window shade screen | No shade screen | Other Inst'l | Space Heating | Existing | building | 5,237 | 1.1% | 0.01 | 10 | \$25 | 13% | 1.2 |
| PECO | Adding window shade screen | No shade screen | Other Inst'l | Space Heating | New | building | 5,237 | 1.1% | 0.01 | 10 | \$25 | 13% | 1.2 |
| PECO | Automated control system | Manual Controls | Other Inst'l | Space Heating | Existing | building | 5,237 | 17% | 0.2 | 15 | \$5,733 | 51% | 0.1 |
| PECO | Automated control system | Manual Controls | Other Inst'l | Space Heating | New | building | 5,237 | 17% | 0.2 | 15 | \$5,733 | 94% | 0.1 |
| PECO | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Other Inst'l | Space Heating | Existing | building | 5,237 | 7.2% | 0.07 | 15 | \$17,130 | 71% | 0.0 |
| PECO | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Other Inst'l | Space Heating | New | building | 5,237 | 2.4% | 0.02 | 15 | \$16,283 | 94% | 0.0 |
| PECO | Duct Insulation, Add R8 | No Insulation | Other Inst'l | Space Heating | Existing | building | 5,237 | 1.4% | 0.04 | 15 | \$42 | 20% | 1.9 |
| PECO | Duct Insulation, Add R8 | No Insulation | Other Inst'l | Space Heating | New | building | 5,237 | 1.4% | 0.04 | 15 | \$42 | 10% | 1.9 |
| PECO | Efficient Unit Heating System | Existing Unit Heaters in PA | Other Inst'l | Space Heating | Early | heater | 27,442 | 23% | 0.05 | 15 | \$3,289 | 83% | 1.0 |
| PECO | Efficient Unit Heating System | Std. Unit Heater | Other Inst'l | Space Heating | New | heater | 24,355 | 13% | 0.03 | 15 | \$1,991 | 83% | 0.8 |
| PECO | Efficient Unit Heating System | Std. Unit Heater | Other Inst'l | Space Heating | ROB | heater | 24,355 | 13% | 0.03 | 15 | \$1,991 | 83% | 0.8 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Other Inst'l | Space Heating | Existing | building | 5,237 | 7.1% | 0.07 | 15 | \$23,229 | 25% | 0.0 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Other Inst'l | Space Heating | New | building | 5,237 | 7.1% | 0.07 | 15 | \$23,229 | 35% | 0.0 |
| PECO | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Other Inst'l | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 1.1 |
| PECO | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Other Inst'l | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 1.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|--|---|--------------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Other Inst'l | Space Heating | Existing | building | 5,237 | 1.1% | 0.01 | 10 | \$7,735 | 81% | 0.0 |
| PECO | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Other Inst'l | Space Heating | New | building | 5,237 | 1.1% | 0.01 | 10 | \$7,735 | 81% | 0.0 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Other Inst'l | Space Heating | Existing | building | 5,237 | 3.6% | 0.04 | 11 | \$286 | 49% | 0.4 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Other Inst'l | Space Heating | New | building | 5,237 | 3.1% | 0.03 | 11 | \$146 | 49% | 0.6 |
| PECO | Re-Commissioning (Existing Construction) | No Re-Commissioning | Other Inst'l | Space Heating | Existing | building | 5,237 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |
| PECO | VFD on Cooling Tower Fan | Motor w/out VFD | Other Inst'l | Space Heating | Early | motor | 18,724 | 70% | 3.4 | 15 | \$2,843 | 88% | 3.7 |
| PECO | VFD on Cooling Tower Fan | Motor w/out VFD | Other Inst'l | Space Heating | New | motor | 18,373 | 72% | 3.3 | 15 | \$2,843 | 88% | 3.7 |
| PECO | VFD on Cooling Tower Fan | Motor w/out VFD | Other Inst'l | Space Heating | ROB | motor | 18,373 | 72% | 3.3 | 15 | \$2,843 | 88% | 3.7 |
| PECO | Wall Insualtions (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Other Inst'l | Space Heating | Existing | building | 5,237 | 13% | 0.1 | 15 | \$3,285 | 26% | 0.1 |
| PECO | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Other Inst'l | Space Heating | New | building | 5,237 | 0.3% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| PECO | Green LED Traffic Light | Green Incandescent Traffic Light | Other Inst'l | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 0% | 1.3 |
| PECO | Green LED Traffic Light | Green Incandescent Traffic Light | Other Inst'l | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.2 |
| PECO | Green LED Traffic Light | Green Incandescent Traffic Light | Other Inst'l | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.2 |
| PECO | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Other Inst'l | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 0% | 3.2 |
| PECO | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Other Inst'l | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| PECO | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Other Inst'l | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| PECO | Induction Street Lighting | One 100W HPS Street Light Fixture | Other Inst'l | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 0% | 0.3 |
| PECO | Induction Street Lighting | One 100W HPS Street Light Fixture | Other Inst'l | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.8 |
| PECO | Induction Street Lighting | One 100W HPS Street Light Fixture | Other Inst'l | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.8 |
| PECO | LED Street Lighting | One 100W HPS Street Light | Other Inst'l | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 0% | 0.2 |
| PECO | LED Street Lighting | One 100W HPS Street Light | Other Inst'l | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| PECO | LED Street Lighting | One 100W HPS Street Light | Other Inst'l | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| PECO | Red LED Traffic Light | One Red Incandescent Traffic Light | Other Inst'l | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 0% | 1.7 |
| PECO | Red LED Traffic Light | One Red Incandescent Traffic Light | Other Inst'l | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| PECO | Red LED Traffic Light | One Red Incandescent Traffic Light | Other Inst'l | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| PECO | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Other Inst'l | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 0% | 0.1 |
| PECO | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Other Inst'l | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| PECO | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Other Inst'l | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| PECO | Demand controlled Circulating Systems | Constant circulation system | Other Inst'l | Water Heating | Existing | building | 3,916 | 20% | 0.2 | 15 | \$711 | 59% | 0.9 |
| PECO | Demand controlled Circulating Systems | Constant circulation system | Other Inst'l | Water Heating | New | building | 3,916 | 20% | 0.2 | 15 | \$711 | 59% | 0.9 |
| PECO | Drainwater Heat Recovery Water Heater | No heat recovery | Other Inst'l | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 2.0 |
| PECO | Drainwater Heat Recovery Water Heater | No heat recovery | Other Inst'l | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 2.0 |
| PECO | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Other Inst'l | Water Heating | Existing | building | 3,916 | 5.9% | 0.06 | 12 | \$42 | 85% | 13.4 |
| PECO | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Other Inst'l | Water Heating | New | building | 3,916 | 5.9% | 0.06 | 12 | \$12 | 85% | 13.4 |
| PECO | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Other Inst'l | Water Heating | Early | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 3.2 |
| PECO | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Other Inst'l | Water Heating | Early | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 3.2 |
| PECO | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Other Inst'l | Water Heating | New | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 3.2 |
| PECO | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Other Inst'l | Water Heating | New | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 3.2 |
| PECO | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Other Inst'l | Water Heating | ROB | water heater | 10,350 | 65% | 1.2 | 10 | \$1,187 | 68% | 3.0 |
| PECO | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Other Inst'l | Water Heating | ROB | water heater | 10,350 | 65% | 1.2 | 10 | \$1,187 | 68% | 3.0 |
| PECO | Heat Recovery Unit | Base Water Heating | Other Inst'l | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.7 |
| PECO | Heat Recovery Unit | Base Water Heating | Other Inst'l | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.7 |
| PECO | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Other Inst'l | Water Heating | Early | water heater | 10,645 | 5.9% | 0.1 | 15 | \$307 | 79% | 1.5 |
| PECO | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Other Inst'l | Water Heating | Early | water heater | 10,645 | 5.9% | 0.1 | 15 | \$307 | 79% | 1.5 |
| PECO | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Other Inst'l | Water Heating | New | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.8 |
| PECO | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Other Inst'l | Water Heating | New | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.8 |
| PECO | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Other Inst'l | Water Heating | ROB | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.8 |
| PECO | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Other Inst'l | Water Heating | ROB | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.8 |
| PECO | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Other Inst'l | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$466 | 81% | 41.5 |
| PECO | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Other Inst'l | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 21.6 |
| PECO | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Other Inst'l | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 21.6 |
| PECO | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Other Inst'l | Water Heating | Existing | building | 3,916 | 0.8% | 0.01 | 13 | \$4.9 | 68% | 4.7 |
| PECO | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Other Inst'l | Water Heating | New | building | 3,916 | 0.8% | 0.01 | 13 | \$4.9 | 0% | 4.7 |
| PECO | Hot Water Circulation Pump Time-Clock | Constant circulation system | Other Inst'l | Water Heating | Existing | building | 3,916 | 5.3% | 0.05 | 10 | \$16 | 72% | 7.9 |
| PECO | Hot Water Circulation Pump Time-Clock | Constant circulation system | Other Inst'l | Water Heating | New | building | 3,916 | 5.3% | 0.05 | 10 | \$16 | 72% | 7.9 |
| PECO | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Other Inst'l | Water Heating | Existing | building | 3,916 | 0.9% | 0.01 | 7 | \$22 | 78% | 0.7 |
| PECO | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Other Inst'l | Water Heating | New | building | 3,916 | 0.8% | 0.01 | 7 | \$0.5 | 78% | 27.8 |
| PECO | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Other Inst'l | Water Heating | Existing | building | 3,916 | 4.5% | 0.05 | 5 | \$300 | 0% | 0.2 |
| PECO | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Other Inst'l | Water Heating | New | building | 3,916 | 3.0% | 0.03 | 5 | \$194 | 0% | 0.2 |
| PECO | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Other Inst'l | Water Heating | Existing | building | 3,916 | 6.5% | 0.07 | 9 | \$25 | 2% | 5.6 |
| PECO | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Other Inst'l | Water Heating | New | building | 3,916 | 6.5% | 0.07 | 9 | \$6.0 | 2% | 23.5 |
| PECO | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Other Inst'l | Water Heating | Early | water heater | 10,645 | 52% | 0.4 | 15 | \$6,222 | 32% | 0.6 |
| PECO | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Other Inst'l | Water Heating | New | water heater | 10,350 | 51% | 0.4 | 15 | \$6,222 | 32% | 0.5 |
| PECO | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Other Inst'l | Water Heating | ROB | water heater | 10,350 | 51% | 0.4 | 15 | \$6,222 | 32% | 0.5 |
| PECO | Ultrasonic Faucet Control | Manual Faucet Control | Other Inst'l | Water Heating | Existing | building | 3,916 | 3.0% | 0.03 | 10 | \$677 | 77% | 0.1 |
| PECO | Ultrasonic Faucet Control | Manual Faucet Control | Other Inst'l | Water Heating | New | building | 3,916 | 3.0% | 0.03 | 10 | \$677 | 77% | 0.1 |
| PECO | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Other Inst'l | Water Heating | Existing | building | 3,916 | 2.2% | 0.02 | 4 | \$28 | 83% | 0.8 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|--|---|--------------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Other Inst'l | Water Heating | New | building | 3,916 | 2.3% | 0.02 | 4 | \$28 | 83% | 0.9 |
| PECO | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Restaurant | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 57% | 1.2 |
| PECO | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Restaurant | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 57% | 1.2 |
| PECO | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Restaurant | Cooking | Early | steamer | 51 | 46% | 0.00 | 12 | \$5,053 | 81% | 0.0 |
| PECO | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Restaurant | Cooking | New | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| PECO | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Restaurant | Cooking | ROB | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| PECO | Electric combination oven (Energy Star) | Standard Oven | Restaurant | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 73% | 3.3 |
| PECO | Electric combination oven (Energy Star) | Standard Oven | Restaurant | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 73% | 3.3 |
| PECO | Electric Convection Oven | Conventional convection oven w/ 65% efficiency | Restaurant | Cooking | Early | oven | 8,641 | 37% | 0.6 | 12 | \$4,119 | 81% | 0.5 |
| PECO | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Restaurant | Cooking | New | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.8 |
| PECO | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Restaurant | Cooking | ROB | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.8 |
| PECO | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Restaurant | Cooking | Early | fryer | 6,105 | 23% | 0.3 | 12 | \$9,241 | 86% | 0.1 |
| PECO | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Restaurant | Cooking | New | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.4 |
| PECO | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Restaurant | Cooking | ROB | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.4 |
| PECO | High Efficiency Griddle (ENERGY STAR) | Efficiency code minimum griddle (70% eff) | Restaurant | Cooking | Early | griddle | 11,317 | 65% | 1.4 | 12 | \$4,977 | 86% | 1.0 |
| PECO | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Restaurant | Cooking | New | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.3 |
| PECO | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Restaurant | Cooking | ROB | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.3 |
| PECO | High Efficiency Induction Cooking | Standard Cooking | Restaurant | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 76% | 0.2 |
| PECO | High Efficiency Induction Cooking | Standard Cooking | Restaurant | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 76% | 0.2 |
| PECO | Solid-state temperature controls | No Solid State Controls | Restaurant | Cooking | Existing | building | 35,758 | 3.6% | 0.04 | 12 | \$160 | 32% | 4.0 |
| PECO | Adding reflective roof treatment | Std color roof | Restaurant | Cooling Central | Existing | building | 2,823 | 7.0% | 0.07 | 6 | \$19,945 | 82% | 0.0 |
| PECO | Adding reflective roof treatment | Std color roof | Restaurant | Cooling Central | New | building | 2,823 | 7.0% | 0.07 | 6 | \$19,945 | 82% | 0.0 |
| PECO | Adding window shade film | No shade film | Restaurant | Cooling Central | Existing | building | 2,823 | 1.3% | 0.4 | 10 | \$34 | 12% | 8.9 |
| PECO | Adding window shade film | No shade film | Restaurant | Cooling Central | New | building | 2,823 | 1.3% | 0.4 | 10 | \$34 | 13% | 8.9 |
| PECO | Adding window shade screen | No shade screen | Restaurant | Cooling Central | Existing | building | 2,823 | 1.0% | 0.01 | 10 | \$13 | 13% | 1.5 |
| PECO | Adding window shade screen | No shade screen | Restaurant | Cooling Central | New | building | 2,823 | 1.1% | 0.01 | 10 | \$13 | 13% | 1.5 |
| PECO | Automated control system | Manual Controls | Restaurant | Cooling Central | Existing | building | 2,823 | 17% | 0.2 | 15 | \$3,091 | 51% | 0.1 |
| PECO | Automated control system | Manual Controls | Restaurant | Cooling Central | New | building | 2,823 | 17% | 0.2 | 15 | \$3,091 | 94% | 0.1 |
| PECO | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Restaurant | Cooling Central | Existing | building | 2,823 | 8.9% | 0.09 | 15 | \$26,661 | 71% | 0.0 |
| PECO | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Restaurant | Cooling Central | New | building | 2,823 | 3.0% | 0.03 | 15 | \$25,342 | 94% | 0.0 |
| PECO | Chiller Tuneup/Diagnostics | No tuneup | Restaurant | Cooling Central | Existing | building | 2,823 | 8.0% | 0.08 | 10 | \$7,209 | 59% | 0.0 |
| PECO | Chiller Tuneup/Diagnostics | No tuneup | Restaurant | Cooling Central | New | building | 2,823 | 8.0% | 0.08 | 10 | \$7,209 | 59% | 0.0 |
| PECO | Commercial energy recovery ventilation systems | No Commercial Recovery System | Restaurant | Cooling Central | Existing | building | 2,823 | 16% | 0.2 | 14 | \$2,551 | 71% | 0.2 |
| PECO | Cooling Tower Optimization | No Cooling Tower Optimization | Restaurant | Cooling Central | Existing | building | 2,823 | 20% | 0.2 | 10 | \$17 | 69% | 22.0 |
| PECO | Duct Insulation, Add R8 | No Insulation | Restaurant | Cooling Central | Existing | building | 2,823 | 1.4% | 0.04 | 15 | \$22 | 20% | 2.9 |
| PECO | Duct Insulation, Add R8 | No Insulation | Restaurant | Cooling Central | New | building | 2,823 | 1.4% | 0.04 | 15 | \$22 | 10% | 2.9 |
| PECO | Facility Commissioning | No Facility Commissioning | Restaurant | Cooling Central | New | building | 2,823 | 16% | 0.2 | 10 | \$8,050 | 89% | 0.0 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Restaurant | Cooling Central | Existing | building | 2,823 | 7.0% | 0.07 | 15 | \$12,524 | 25% | 0.0 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Restaurant | Cooling Central | New | building | 2,823 | 7.0% | 0.07 | 15 | \$12,524 | 35% | 0.0 |
| PECO | Hi Eff HVAC System Design | No HVAC Design | Restaurant | Cooling Central | New | building | 2,823 | 12% | 0.1 | 10 | \$113,757 | 51% | 0.0 |
| PECO | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | Early | ton | 5,730 | 24% | 0.3 | 15 | \$108,550 | 88% | 0.0 |
| PECO | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | New | ton | 4,684 | 6.7% | 0.07 | 15 | \$12,927 | 88% | 0.0 |
| PECO | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | ROB | ton | 4,684 | 6.7% | 0.07 | 15 | \$12,927 | 88% | 0.0 |
| PECO | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | Early | ton | 8,562 | 23% | 0.5 | 15 | \$140,105 | 88% | 0.0 |
| PECO | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | New | ton | 6,888 | 4.9% | 0.08 | 15 | \$9,336 | 88% | 0.0 |
| PECO | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | ROB | ton | 6,888 | 4.9% | 0.08 | 15 | \$9,336 | 88% | 0.0 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | Early | ton | 70,089 | 26% | 4.1 | 15 | \$105,354 | 88% | 0.1 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | New | ton | 61,068 | 15% | 2.1 | 15 | \$30,530 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | ROB | ton | 61,068 | 15% | 2.1 | 15 | \$30,530 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | Early | ton | 104,974 | 23% | 5.4 | 15 | \$154,107 | 88% | 0.1 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | New | ton | 96,432 | 16% | 3.5 | 15 | \$27,646 | 88% | 0.4 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | ROB | ton | 104,974 | 23% | 5.4 | 15 | \$27,646 | 88% | 0.7 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | Early | ton | 174,342 | 23% | 8.9 | 15 | \$302,924 | 88% | 0.1 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | New | ton | 157,792 | 14% | 5.1 | 15 | \$115,432 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | ROB | ton | 174,342 | 23% | 8.9 | 15 | \$115,432 | 88% | 0.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|--|--|------------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | Early | ton | 209,211 | 23% | 10.6 | 15 | \$350,154 | 88% | 0.1 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | New | ton | 189,351 | 14% | 6.2 | 15 | \$120,406 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | ROB | ton | 209,211 | 23% | 10.6 | 15 | \$120,406 | 88% | 0.3 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | Early | ton | 46,373 | 29% | 3.1 | 15 | \$83,632 | 88% | 0.1 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | New | ton | 36,008 | 8.9% | 0.7 | 15 | \$40,211 | 88% | 0.1 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | ROB | ton | 46,373 | 29% | 3.1 | 15 | \$40,211 | 88% | 0.3 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | Early | ton | 79,681 | 35% | 6.2 | 15 | \$132,173 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | New | ton | 59,428 | 13% | 1.7 | 15 | \$39,556 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | ROB | ton | 59,428 | 13% | 1.7 | 15 | \$39,556 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | Early | ton | 133,034 | 39% | 11.7 | 15 | \$187,029 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | New | ton | 94,851 | 15% | 3.1 | 15 | \$33,554 | 88% | 0.3 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | ROB | ton | 133,034 | 39% | 11.7 | 15 | \$33,554 | 88% | 1.2 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | Early | ton | 23,279 | 30% | 1.6 | 15 | \$32,398 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | New | ton | 18,443 | 11% | 0.5 | 15 | \$7,188 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | ROB | ton | 23,279 | 30% | 1.6 | 15 | \$7,188 | 88% | 0.8 |
| PECO | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Restaurant | Cooling Central | Existing | building | 2,823 | 3.5% | 0.04 | 10 | \$2,513 | 81% | 0.0 |
| PECO | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Restaurant | Cooling Central | New | building | 2,823 | 3.5% | 0.04 | 10 | \$2,513 | 81% | 0.0 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Restaurant | Cooling Central | Existing | building | 2,823 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.1 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Restaurant | Cooling Central | New | building | 2,823 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.2 |
| PECO | Re-Commissioning (Existing Construction) | No Re-Commissioning | Restaurant | Cooling Central | Existing | building | 2,823 | 16% | 0.2 | 5 | \$12,732 | 86% | 0.0 |
| PECO | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Restaurant | Cooling Central | Existing | building | 2,823 | 12% | 0.1 | 15 | \$6,404 | 26% | 0.0 |
| PECO | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Restaurant | Cooling Central | New | building | 2,823 | 0.5% | 0.01 | 15 | \$4,912 | 94% | 0.0 |
| PECO | <65k BTU/hr 14 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Restaurant | Cooling Unitary | Early | ton | 1,569 | 16% | 0.2 | 15 | \$1,545 | 29% | 0.3 |
| PECO | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Restaurant | Cooling Unitary | New | ton | 1,421 | 7.1% | 0.10 | 15 | \$339 | 29% | 0.5 |
| PECO | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Restaurant | Cooling Unitary | ROB | ton | 1,421 | 7.1% | 0.10 | 15 | \$339 | 29% | 0.5 |
| PECO | <65k BTU/hr 15 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Restaurant | Cooling Unitary | Early | ton | 1,569 | 22% | 0.3 | 15 | \$1,821 | 30% | 0.3 |
| PECO | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Restaurant | Cooling Unitary | New | ton | 1,421 | 13% | 0.2 | 15 | \$714 | 30% | 0.4 |
| PECO | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Restaurant | Cooling Unitary | ROB | ton | 1,421 | 13% | 0.2 | 15 | \$714 | 30% | 0.4 |
| PECO | <65k BTU/hr 16 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Restaurant | Cooling Unitary | Early | ton | 1,569 | 26% | 0.4 | 15 | \$2,098 | 31% | 0.3 |
| PECO | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Restaurant | Cooling Unitary | New | ton | 1,421 | 19% | 0.3 | 15 | \$1,089 | 31% | 0.4 |
| PECO | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Restaurant | Cooling Unitary | ROB | ton | 1,421 | 19% | 0.3 | 15 | \$1,089 | 31% | 0.4 |
| PECO | >760k min 10.2 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Restaurant | Cooling Unitary | Early | ton | 39,685 | 3.7% | 1.4 | 15 | \$68,066 | 56% | 0.0 |
| PECO | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Restaurant | Cooling Unitary | New | ton | 40,194 | 4.9% | 1.9 | 15 | \$6,231 | 56% | 0.5 |
| PECO | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Restaurant | Cooling Unitary | ROB | ton | 40,194 | 4.9% | 1.9 | 15 | \$6,231 | 56% | 0.5 |
| PECO | 135-240k min 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Restaurant | Cooling Unitary | Early | ton | 9,765 | 18% | 1.7 | 15 | \$18,135 | 79% | 0.2 |
| PECO | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Restaurant | Cooling Unitary | New | ton | 8,883 | 10.0% | 0.9 | 15 | \$1,948 | 79% | 0.7 |
| PECO | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Restaurant | Cooling Unitary | ROB | ton | 8,883 | 10.0% | 0.9 | 15 | \$1,948 | 79% | 0.7 |
| PECO | 240k-760k min 11 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Restaurant | Cooling Unitary | Early | ton | 26,108 | 9.0% | 2.3 | 15 | \$44,809 | 66% | 0.1 |
| PECO | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Restaurant | Cooling Unitary | New | ton | 26,173 | 9.3% | 2.4 | 15 | \$4,813 | 66% | 0.8 |
| PECO | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Restaurant | Cooling Unitary | ROB | ton | 26,173 | 9.3% | 2.4 | 15 | \$4,813 | 66% | 0.8 |
| PECO | 65k-135k BTU/hr 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Restaurant | Cooling Unitary | Early | ton | 5,756 | 17% | 0.9 | 15 | \$10,946 | 86% | 0.1 |
| PECO | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Restaurant | Cooling Unitary | New | ton | 5,130 | 6.7% | 0.3 | 15 | \$1,392 | 86% | 0.4 |
| PECO | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Restaurant | Cooling Unitary | ROB | ton | 5,130 | 6.7% | 0.3 | 15 | \$1,392 | 86% | 0.4 |
| PECO | Adding reflective roof treatment | Std color roof | Restaurant | Cooling Unitary | Existing | building | 26,196 | 7.0% | 0.07 | 6 | \$19,945 | 82% | 0.0 |
| PECO | Adding reflective roof treatment | Std color roof | Restaurant | Cooling Unitary | New | building | 26,196 | 7.1% | 0.07 | 6 | \$19,945 | 82% | 0.0 |
| PECO | Adding window shade film | No shade film | Restaurant | Cooling Unitary | Existing | building | 26,196 | 1.3% | 0.4 | 10 | \$319 | 12% | 1.4 |
| PECO | Adding window shade film | No shade film | Restaurant | Cooling Unitary | New | building | 26,196 | 1.3% | 0.4 | 10 | \$319 | 13% | 1.4 |
| PECO | Adding window shade screen | No shade screen | Restaurant | Cooling Unitary | Existing | building | 26,196 | 1.1% | 0.01 | 10 | \$123 | 12% | 1.0 |
| PECO | Adding window shade screen | No shade screen | Restaurant | Cooling Unitary | New | building | 26,196 | 1.1% | 0.01 | 10 | \$123 | 13% | 1.0 |
| PECO | Automated control system | Manual Controls | Restaurant | Cooling Unitary | Existing | building | 26,196 | 17% | 0.2 | 15 | \$28,678 | 51% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---|---|------------|-----------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Automated control system | Manual Controls | Restaurant | Cooling Unitary | New | building | 26,196 | 17% | 0.2 | 15 | \$28,678 | 94% | 0.1 |
| PECO | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Restaurant | Cooling Unitary | Existing | building | 26,196 | 8.9% | 0.09 | 15 | \$26,661 | 71% | 0.1 |
| PECO | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Restaurant | Cooling Unitary | New | building | 26,196 | 3.0% | 0.03 | 15 | \$25,342 | 94% | 0.0 |
| PECO | Commercial energy recovery ventilation systems | No Commercial Recovery System | Restaurant | Cooling Unitary | Existing | building | 26,196 | 16% | 0.2 | 14 | \$23,672 | 71% | 0.1 |
| PECO | Duct Insulation, Add R8 | No Insulation | Restaurant | Cooling Unitary | Existing | building | 26,196 | 1.4% | 0.04 | 15 | \$208 | 20% | 1.2 |
| PECO | Duct Insulation, Add R8 | No Insulation | Restaurant | Cooling Unitary | New | building | 26,196 | 1.4% | 0.04 | 15 | \$208 | 10% | 1.2 |
| PECO | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Restaurant | Cooling Unitary | Existing | building | 14,315 | 13% | 0.1 | 1 | \$137 | 73% | 0.7 |
| PECO | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Restaurant | Cooling Unitary | New | building | 14,315 | 13% | 0.1 | 1 | \$137 | 73% | 0.7 |
| PECO | ECM Motors for split systems | Std Shaded Pole Motor | Restaurant | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 3.2 |
| PECO | ECM Motors for split systems | Std Shaded Pole Motor | Restaurant | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 3.2 |
| PECO | Facility Commissioning | No Facility Commissioning | Restaurant | Cooling Unitary | New | building | 26,196 | 16% | 0.2 | 10 | \$425 | 89% | 4.4 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Restaurant | Cooling Unitary | Existing | building | 26,196 | 7.1% | 0.07 | 15 | \$116,198 | 25% | 0.0 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Restaurant | Cooling Unitary | New | building | 26,196 | 7.0% | 0.07 | 15 | \$116,198 | 35% | 0.0 |
| PECO | Hi Eff HVAC System Design | No HVAC Design | Restaurant | Cooling Unitary | New | building | 26,196 | 12% | 0.1 | 10 | \$1,521 | 51% | 0.9 |
| PECO | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Restaurant | Cooling Unitary | Existing | building | 26,196 | 5.0% | 0.05 | 5 | \$225 | 59% | 1.4 |
| PECO | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Restaurant | Cooling Unitary | Existing | building | 26,196 | 3.5% | 0.04 | 10 | \$2,701 | 86% | 0.2 |
| PECO | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Restaurant | Cooling Unitary | New | building | 26,196 | 3.5% | 0.04 | 10 | \$2,701 | 86% | 0.2 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) | Restaurant | Cooling Unitary | Existing | building | 26,196 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.9 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Restaurant | Cooling Unitary | New | building | 26,196 | 1.7% | 0.02 | 11 | \$146 | 49% | 1.5 |
| PECO | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Restaurant | Cooling Unitary | Early | unit | 942 | 19% | 0.04 | 15 | \$849 | 85% | 0.2 |
| PECO | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Restaurant | Cooling Unitary | New | unit | 952 | 20% | 0.04 | 15 | \$356 | 85% | 0.4 |
| PECO | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Restaurant | Cooling Unitary | ROB | unit | 952 | 20% | 0.04 | 15 | \$356 | 85% | 0.4 |
| PECO | Re-Commissioning (Existing Construction) | No Re-Commissioning | Restaurant | Cooling Unitary | Existing | building | 26,196 | 16% | 0.2 | 5 | \$12,732 | 86% | 0.1 |
| PECO | Room AC (w/ louvered sides) | Exisiting efficiency Room AC in Pennsylvania (2000 Federal Standards) | Restaurant | Cooling Unitary | Early | ton | 1,141 | 13% | 0.03 | 9 | \$348 | 82% | 0.2 |
| PECO | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Restaurant | Cooling Unitary | New | ton | 1,034 | 4.5% | 0.01 | 9 | \$17 | 82% | 1.4 |
| PECO | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Restaurant | Cooling Unitary | ROB | ton | 1,034 | 4.5% | 0.01 | 9 | \$17 | 82% | 1.4 |
| PECO | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Restaurant | Cooling Unitary | Existing | building | 26,196 | 12% | 0.1 | 15 | \$6,404 | 26% | 0.3 |
| PECO | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Restaurant | Cooling Unitary | New | building | 26,196 | 0.5% | 0.01 | 15 | \$4,912 | 94% | 0.0 |
| PECO | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Restaurant | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 1.1 |
| PECO | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Restaurant | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.4 |
| PECO | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Restaurant | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.4 |
| PECO | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Restaurant | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 0% | 0.2 |
| PECO | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Restaurant | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| PECO | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Restaurant | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| PECO | LED exterior lighting | 250 Watt Incandescent | Restaurant | Ext. Lighting | ROB | measure | 515 | 83% | 0.1 | 15 | \$104 | 89% | 3.0 |
| PECO | LED exterior lighting | 250 Watt Incandescent | Restaurant | Ext. Lighting | ROB | measure | 515 | 83% | 0.1 | 15 | \$104 | 89% | 3.0 |
| PECO | LED exterior lighting | 250 Watt Incandescent | Restaurant | Ext. Lighting | ROB | measure | 515 | 83% | 0.1 | 15 | \$104 | 89% | 3.0 |
| PECO | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Restaurant | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 75% | 0.3 |
| PECO | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Restaurant | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 75% | 0.2 |
| PECO | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Restaurant | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.6 |
| PECO | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Restaurant | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.0 |
| PECO | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Restaurant | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.6 |
| PECO | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Restaurant | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.0 |
| PECO | Photocell Controls (Outdoor) | Lighting w/ No Controls | Restaurant | Ext. Lighting | Existing | building | 41 | 28% | 0.3 | 8 | \$891 | 88% | 0.2 |
| PECO | Photocell Controls (Outdoor) | Lighting w/ No Controls | Restaurant | Ext. Lighting | New | building | 41 | 28% | 0.3 | 8 | \$891 | 0% | 0.2 |
| PECO | Adding reflective roof treatment | Std color roof | Restaurant | Heat Pump | Existing | building | 2,019 | 6.9% | 0.07 | 6 | \$19,945 | 82% | 0.0 |
| PECO | Adding reflective roof treatment | Std color roof | Restaurant | Heat Pump | New | building | 2,019 | 6.9% | 0.07 | 6 | \$19,945 | 82% | 0.0 |
| PECO | Adding window shade film | No shade film | Restaurant | Heat Pump | Existing | building | 2,019 | 3.9% | 0.4 | 10 | \$25 | 12% | 13.2 |
| PECO | Adding window shade film | No shade film | Restaurant | Heat Pump | New | building | 2,019 | 3.9% | 0.4 | 10 | \$25 | 12% | 13.2 |
| PECO | Adding window shade screen | No shade screen | Restaurant | Heat Pump | Existing | building | 2,019 | 0.3% | 0.01 | 10 | \$3.2 | 12% | 3.4 |
| PECO | Adding window shade screen | No shade screen | Restaurant | Heat Pump | New | building | 2,019 | 0.3% | 0.01 | 10 | \$3.2 | 12% | 3.4 |
| PECO | Automated control system | Manual Controls | Restaurant | Heat Pump | Existing | building | 2,019 | 17% | 0.2 | 15 | \$2,210 | 51% | 0.2 |
| PECO | Automated control system | Manual Controls | Restaurant | Heat Pump | New | building | 2,019 | 17% | 0.2 | 15 | \$2,210 | 94% | 0.2 |
| PECO | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Restaurant | Heat Pump | Existing | building | 2,019 | 8.9% | 0.09 | 15 | \$26,661 | 71% | 0.0 |
| PECO | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Restaurant | Heat Pump | New | building | 2,019 | 3.0% | 0.03 | 15 | \$25,342 | 94% | 0.0 |
| PECO | Commercial energy recovery ventilation systems | No Commercial Recovery System | Restaurant | Heat Pump | Existing | building | 2,019 | 16% | 0.2 | 14 | \$1,071,351 | 71% | 0.0 |
| PECO | Duct Insulation, Add R8 | No Insulation | Restaurant | Heat Pump | Existing | building | 2,019 | 4.0% | 0.04 | 15 | \$16 | 12% | 5.5 |
| PECO | Duct Insulation, Add R8 | No Insulation | Restaurant | Heat Pump | New | building | 2,019 | 4.0% | 0.04 | 15 | \$16 | 6% | 5.5 |
| PECO | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Restaurant | Heat Pump | Early | heat pump | 2,338 | 12% | 0.06 | 15 | \$4,070 | 83% | 0.1 |
| PECO | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Restaurant | Heat Pump | New | heat pump | 2,235 | 7.8% | 0.04 | 15 | \$1,097 | 83% | 0.1 |
| PECO | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Restaurant | Heat Pump | ROB | heat pump | 2,235 | 7.8% | 0.04 | 15 | \$1,097 | 83% | 0.1 |
| PECO | Facility Commissioning | No Facility Commissioning | Restaurant | Heat Pump | New | building | 2,019 | 16% | 0.2 | 10 | \$8,050 | 89% | 0.0 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Restaurant | Heat Pump | Existing | building | 2,019 | 7.0% | 0.07 | 15 | \$8,956 | 25% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|--|--|------------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Restaurant | Heat Pump | New | building | 2,019 | 7.0% | 0.07 | 15 | \$8,956 | 35% | 0.0 |
| PECO | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Restaurant | Heat Pump | Early | heat pump | 23,997 | 16% | 0.8 | 15 | \$91,117 | 19% | 0.0 |
| PECO | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Restaurant | Heat Pump | New | heat pump | 23,173 | 13% | 0.7 | 15 | \$33,927 | 19% | 0.1 |
| PECO | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Restaurant | Heat Pump | ROB | heat pump | 23,173 | 13% | 0.7 | 15 | \$33,927 | 19% | 0.1 |
| PECO | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Restaurant | Heat Pump | Early | heat pump | 23,997 | 16% | 0.8 | 15 | \$58,356 | 19% | 0.1 |
| PECO | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Restaurant | Heat Pump | New | heat pump | 23,173 | 13% | 0.7 | 15 | \$1,167 | 19% | 2.0 |
| PECO | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Restaurant | Heat Pump | ROB | heat pump | 23,173 | 13% | 0.7 | 15 | \$1,167 | 19% | 2.0 |
| PECO | Hi Eff HVAC System Design | No HVAC Design | Restaurant | Heat Pump | New | building | 2,019 | 12% | 0.1 | 10 | \$113,757 | 51% | 0.0 |
| PECO | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Restaurant | Heat Pump | Early | heat pump | 6,235 | 16% | 0.2 | 12 | \$4,298 | 81% | 0.2 |
| PECO | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Restaurant | Heat Pump | Early | heat pump | 6,235 | 26% | 0.4 | 12 | \$5,883 | 81% | 0.2 |
| PECO | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Restaurant | Heat Pump | New | heat pump | 5,960 | 12% | 0.2 | 12 | \$852 | 81% | 0.6 |
| PECO | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Restaurant | Heat Pump | New | heat pump | 5,960 | 22% | 0.3 | 12 | \$2,437 | 81% | 0.4 |
| PECO | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Restaurant | Heat Pump | ROB | heat pump | 5,960 | 12% | 0.2 | 12 | \$852 | 81% | 0.6 |
| PECO | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Restaurant | Heat Pump | ROB | heat pump | 5,960 | 22% | 0.3 | 12 | \$2,437 | 81% | 0.4 |
| PECO | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Restaurant | Heat Pump | Existing | building | 2,019 | 3.5% | 0.04 | 10 | \$2,405 | 81% | 0.0 |
| PECO | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Restaurant | Heat Pump | New | building | 2,019 | 3.5% | 0.04 | 10 | \$2,405 | 81% | 0.0 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Restaurant | Heat Pump | Existing | building | 2,019 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.1 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Restaurant | Heat Pump | New | building | 2,019 | 2.1% | 0.02 | 11 | \$146 | 49% | 0.3 |
| PECO | Re-Commissioning (Existing Construction) | No Re-Commissioning | Restaurant | Heat Pump | Existing | building | 2,019 | 16% | 0.2 | 5 | \$12,732 | 86% | 0.0 |
| PECO | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Restaurant | Heat Pump | New | measure | 2,695,700 | 2.0% | 6.2 | 13 | \$339,358 | 43% | 0.1 |
| PECO | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Restaurant | Heat Pump | ROB | measure | 2,695,700 | 2.0% | 6.2 | 13 | \$339,358 | 43% | 0.1 |
| PECO | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Restaurant | Heat Pump | Existing | building | 2,019 | 12% | 0.1 | 15 | \$6,404 | 26% | 0.0 |
| PECO | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Restaurant | Heat Pump | New | building | 2,019 | 0.5% | 0.01 | 15 | \$4,912 | 94% | 0.0 |
| PECO | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Restaurant | Heat Pump | Early | heat pump | 10,052 | 35% | 0.8 | 15 | \$35,347 | 28% | 0.1 |
| PECO | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Restaurant | Heat Pump | New | heat pump | 9,584 | 32% | 0.7 | 15 | \$15,739 | 28% | 0.2 |
| PECO | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Restaurant | Heat Pump | ROB | heat pump | 9,584 | 32% | 0.7 | 15 | \$15,739 | 28% | 0.2 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | Early | Fixture | 1,000 | 9.6% | 0.02 | 13 | \$850 | 39% | 0.1 |
| PECO | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Restaurant | High Bay Lighting | Early | Fixture | 999 | 9.5% | 0.02 | 13 | \$850 | 28% | 0.1 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Restaurant | High Bay Lighting | Early | Fixture | 1,542 | 41% | 0.1 | 13 | \$850 | 36% | 0.5 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | New | Fixture | 760 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Restaurant | High Bay Lighting | New | Fixture | 707 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Restaurant | High Bay Lighting | New | Fixture | 1,172 | 41% | 0.09 | 13 | \$397 | 36% | 0.8 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 1,000 | 9.6% | 0.02 | 13 | \$372 | 39% | 0.2 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 930 | 2.9% | 0.01 | 13 | \$338 | 28% | 0.1 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 1,542 | 41% | 0.1 | 13 | \$397 | 36% | 1.1 |
| PECO | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | Early | Fixture | 1,941 | 19% | 0.07 | 13 | \$851 | 38% | 0.3 |
| PECO | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Restaurant | High Bay Lighting | Early | Fixture | 1,965 | 20% | 0.08 | 13 | \$851 | 38% | 0.3 |
| PECO | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | Early | Fixture | 5,715 | 73% | 0.8 | 13 | \$851 | 38% | 3.3 |
| PECO | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | New | Fixture | 1,475 | 19% | 0.05 | 13 | \$372 | 38% | 0.5 |
| PECO | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | New | Fixture | 4,344 | 73% | 0.6 | 13 | \$383 | 38% | 5.7 |
| PECO | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 1,941 | 19% | 0.07 | 13 | \$372 | 38% | 0.7 |
| PECO | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 5,715 | 73% | 0.8 | 13 | \$383 | 38% | 7.4 |
| PECO | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | Early | Fixture | 1,941 | 25% | 0.09 | 13 | \$554 | 29% | 0.6 |
| PECO | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Restaurant | High Bay Lighting | Early | Fixture | 1,905 | 23% | 0.09 | 13 | \$554 | 28% | 0.5 |
| PECO | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | Early | Fixture | 5,715 | 74% | 0.8 | 13 | \$554 | 36% | 5.3 |
| PECO | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | New | Fixture | 1,475 | 25% | 0.07 | 13 | \$75 | 29% | 3.3 |
| PECO | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | New | Fixture | 4,344 | 74% | 0.6 | 13 | \$86 | 36% | 25.9 |
| PECO | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 1,941 | 25% | 0.09 | 13 | \$75 | 29% | 4.4 |
| PECO | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 5,715 | 74% | 0.8 | 13 | \$86 | 36% | 34.1 |
| PECO | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Restaurant | High Bay Lighting | Early | Fixture | 506 | 0.2% | 0.00 | 13 | \$835 | 38% | 0.0 |
| PECO | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Restaurant | High Bay Lighting | Early | Fixture | 1,090 | 54% | 0.1 | 13 | \$835 | 38% | 0.5 |
| PECO | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Restaurant | High Bay Lighting | New | Fixture | 828 | 54% | 0.09 | 13 | \$382 | 38% | 0.8 |
| PECO | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 1,090 | 54% | 0.1 | 13 | \$382 | 38% | 1.1 |
| PECO | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | Early | Fixture | 2,472 | 18% | 0.09 | 13 | \$487 | 25% | 0.6 |
| PECO | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Restaurant | High Bay Lighting | Early | Fixture | 2,585 | 22% | 0.1 | 13 | \$487 | 28% | 0.8 |
| PECO | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | Early | Fixture | 5,715 | 65% | 0.7 | 13 | \$487 | 36% | 5.2 |
| PECO | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | New | Fixture | 1,879 | 18% | 0.07 | 13 | \$16 | 25% | 14.5 |
| PECO | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | New | Fixture | 4,344 | 65% | 0.5 | 13 | \$18 | 36% | 104.9 |
| PECO | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 2,472 | 18% | 0.09 | 13 | \$16 | 25% | 19.1 |
| PECO | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 5,715 | 65% | 0.7 | 13 | \$18 | 36% | 138.0 |
| PECO | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | Early | Fixture | 2,472 | 1.5% | 0.01 | 13 | \$557 | 19% | 0.0 |
| PECO | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Restaurant | High Bay Lighting | Early | Fixture | 2,545 | 4.3% | 0.02 | 13 | \$557 | 19% | 0.1 |
| PECO | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | Early | Fixture | 5,715 | 57% | 0.6 | 13 | \$557 | 19% | 4.0 |
| PECO | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | New | Fixture | 1,879 | 1.5% | 0.01 | 13 | \$86 | 19% | 0.2 |
| PECO | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | New | Fixture | 4,344 | 57% | 0.5 | 13 | \$88 | 19% | 19.4 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---|---|------------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 2,472 | 1.5% | 0.01 | 13 | \$86 | 19% | 0.3 |
| PECO | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 5,715 | 57% | 0.6 | 13 | \$88 | 19% | 25.5 |
| PECO | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Restaurant | High Bay Lighting | Early | Fixture | 1,050 | 29% | 0.04 | 13 | \$492 | 71% | 0.4 |
| PECO | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | Early | Fixture | 878 | 15% | 0.02 | 13 | \$492 | 95% | 0.2 |
| PECO | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Restaurant | High Bay Lighting | Early | Fixture | 1,304 | 43% | 0.08 | 13 | \$492 | 95% | 0.7 |
| PECO | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Restaurant | High Bay Lighting | Early | Fixture | 1,209 | 38% | 0.06 | 13 | \$492 | 95% | 0.6 |
| PECO | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | New | Fixture | 667 | 15% | 0.01 | 13 | \$25 | 95% | 2.5 |
| PECO | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Restaurant | High Bay Lighting | New | Fixture | 991 | 43% | 0.06 | 13 | \$51 | 95% | 5.2 |
| PECO | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 878 | 15% | 0.02 | 13 | \$25 | 95% | 3.3 |
| PECO | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 1,304 | 43% | 0.08 | 13 | \$51 | 95% | 6.9 |
| PECO | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Restaurant | High Bay Lighting | Early | lamp | 120 | 16% | 0.00 | 9 | \$7.7 | 99% | 1.3 |
| PECO | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Restaurant | High Bay Lighting | New | lamp | 72 | 13% | 0.00 | 9 | \$1.6 | 91% | 2.8 |
| PECO | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Restaurant | High Bay Lighting | ROB | lamp | 116 | 13% | 0.00 | 9 | \$1.6 | 91% | 4.5 |
| PECO | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | Early | Fixture | 5,848 | 23% | 0.3 | 13 | \$613 | 5% | 1.5 |
| PECO | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Restaurant | High Bay Lighting | Early | Fixture | 4,595 | 1.6% | 0.01 | 13 | \$613 | 28% | 0.1 |
| PECO | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | Early | Fixture | 11,431 | 60% | 1.3 | 13 | \$613 | 18% | 7.7 |
| PECO | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | New | Fixture | 4,445 | 23% | 0.2 | 13 | \$96 | 5% | 7.2 |
| PECO | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 5,848 | 23% | 0.3 | 13 | \$96 | 5% | 9.5 |
| PECO | Auto Off Time Switch | Lighting w/ No Controls | Restaurant | High Bay Lighting | Existing | building | 82 | 24% | 0.2 | 8 | \$181 | 13% | 0.9 |
| PECO | Auto Off Time Switch | Lighting w/ No Controls | Restaurant | High Bay Lighting | New | building | 82 | 6.9% | 0.07 | 8 | \$181 | 0% | 0.3 |
| PECO | Central Lighting Control System | Lighting w/ No Controls | Restaurant | High Bay Lighting | Existing | building | 82 | 38% | 0.4 | 8 | \$181 | 13% | 1.5 |
| PECO | Central Lighting Control System | Lighting w/ No Controls | Restaurant | High Bay Lighting | New | building | 82 | 14% | 0.1 | 8 | \$181 | 13% | 0.5 |
| PECO | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Restaurant | High Bay Lighting | New | building | 82 | 10% | 0.1 | 15 | \$46,260 | 32% | 0.0 |
| PECO | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Restaurant | High Bay Lighting | New | building | 82 | 15% | 0.2 | 15 | \$115,651 | 32% | 0.0 |
| PECO | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Restaurant | High Bay Lighting | New | building | 82 | 30% | 0.3 | 15 | \$165,766 | 32% | 0.0 |
| PECO | Indoor Daylight Sensors | Lighting w/ No Controls | Restaurant | High Bay Lighting | Existing | building | 82 | 28% | 0.3 | 8 | \$891 | 13% | 0.2 |
| PECO | Indoor Daylight Sensors | Lighting w/ No Controls | Restaurant | High Bay Lighting | New | building | 82 | 4.0% | 0.04 | 8 | \$891 | 0% | 0.0 |
| PECO | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | Early | Fixture | 5,848 | 92% | 1.0 | 13 | \$1,916 | 95% | 1.9 |
| PECO | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | Early | Fixture | 11,431 | 96% | 2.1 | 13 | \$1,916 | 95% | 3.9 |
| PECO | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | New | Fixture | 4,445 | 92% | 0.8 | 13 | \$1,468 | 95% | 1.9 |
| PECO | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | New | Fixture | 8,687 | 96% | 1.6 | 13 | \$1,149 | 95% | 5.0 |
| PECO | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 5,848 | 92% | 1.0 | 13 | \$1,468 | 95% | 2.5 |
| PECO | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 11,431 | 96% | 2.1 | 13 | \$1,149 | 95% | 6.6 |
| PECO | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | Early | Fixture | 1,941 | 67% | 0.3 | 13 | \$960 | 95% | 0.9 |
| PECO | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Restaurant | High Bay Lighting | Early | Fixture | 5,715 | 89% | 1.0 | 13 | \$960 | 95% | 3.6 |
| PECO | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Restaurant | High Bay Lighting | Early | Fixture | 1,568 | 59% | 0.2 | 13 | \$960 | 95% | 0.7 |
| PECO | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | New | Fixture | 1,475 | 67% | 0.2 | 13 | \$480 | 95% | 1.4 |
| PECO | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Restaurant | High Bay Lighting | New | Fixture | 4,344 | 89% | 0.7 | 13 | \$491 | 95% | 5.4 |
| PECO | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Restaurant | High Bay Lighting | New | Fixture | 1,192 | 59% | 0.1 | 13 | \$406 | 95% | 1.2 |
| PECO | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 1,941 | 67% | 0.3 | 13 | \$480 | 95% | 1.8 |
| PECO | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 5,715 | 89% | 1.0 | 13 | \$491 | 95% | 7.1 |
| PECO | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 1,568 | 59% | 0.2 | 13 | \$406 | 95% | 1.6 |
| PECO | Occupancy Sensor | Lighting w/ No Controls | Restaurant | High Bay Lighting | Existing | building | 82 | 24% | 0.2 | 8 | \$273 | 12% | 0.6 |
| PECO | Occupancy Sensor | Lighting w/ No Controls | Restaurant | High Bay Lighting | New | building | 82 | 6.9% | 0.07 | 8 | \$273 | 0% | 0.2 |
| PECO | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Restaurant | High Bay Lighting | Existing | building | 82 | 28% | 0.3 | 8 | \$891 | 12% | 0.2 |
| PECO | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Restaurant | High Bay Lighting | New | building | 82 | 4.0% | 0.04 | 8 | \$891 | 0% | 0.0 |
| PECO | Time Clock Control | Lighting w/ No Controls | Restaurant | High Bay Lighting | Existing | building | 82 | 28% | 0.3 | 8 | \$181 | 13% | 1.1 |
| PECO | Time Clock Control | Lighting w/ No Controls | Restaurant | High Bay Lighting | New | building | 82 | 4.1% | 0.04 | 8 | \$181 | 0% | 0.2 |
| PECO | Auto Off Time Switch | Lighting w/ No Controls | Restaurant | Lin. Fluor. Lighting | Existing | building | 8,302 | 24% | 0.2 | 8 | \$181 | 13% | 4.6 |
| PECO | Auto Off Time Switch | Lighting w/ No Controls | Restaurant | Lin. Fluor. Lighting | New | building | 8,302 | 7.0% | 0.07 | 8 | \$181 | 0% | 1.3 |
| PECO | Central Lighting Control System | Lighting w/ No Controls | Restaurant | Lin. Fluor. Lighting | Existing | building | 8,302 | 38% | 0.4 | 8 | \$181 | 12% | 7.2 |
| PECO | Central Lighting Control System | Lighting w/ No Controls | Restaurant | Lin. Fluor. Lighting | New | building | 8,302 | 14% | 0.1 | 8 | \$181 | 12% | 2.7 |
| PECO | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Restaurant | Lin. Fluor. Lighting | New | building | 8,302 | 10% | 0.1 | 15 | \$46,260 | 32% | 0.0 |
| PECO | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Restaurant | Lin. Fluor. Lighting | New | building | 8,302 | 15% | 0.2 | 15 | \$115,651 | 32% | 0.0 |
| PECO | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Restaurant | Lin. Fluor. Lighting | New | building | 8,302 | 30% | 0.3 | 15 | \$165,766 | 32% | 0.0 |
| PECO | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Restaurant | Lin. Fluor. Lighting | Early | Lamp | 242 | 38% | 0.01 | 9 | \$7.3 | 94% | 6.0 |
| PECO | Indoor Daylight Sensors | Lighting w/ No Controls | Restaurant | Lin. Fluor. Lighting | Existing | building | 8,302 | 28% | 0.3 | 8 | \$891 | 13% | 1.1 |
| PECO | Indoor Daylight Sensors | Lighting w/ No Controls | Restaurant | Lin. Fluor. Lighting | New | building | 8,302 | 4.1% | 0.04 | 8 | \$891 | 0% | 0.2 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | Early | Lamp | 109 | 19% | 0.00 | 11 | \$35 | 94% | 0.4 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 40W T12 Lamp, Magnetic Ballast | Restaurant | Lin. Fluor. Lighting | Early | Lamp | 240 | 63% | 0.03 | 11 | \$35 | 94% | 2.7 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | Early | Lamp | 135 | 34% | 0.01 | 11 | \$35 | 94% | 0.8 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | Early | Lamp | 131 | 32% | 0.01 | 11 | \$35 | 94% | 0.7 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | New | Lamp | 83 | 19% | 0.00 | 11 | \$28 | 94% | 0.4 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | New | Lamp | 99 | 32% | 0.01 | 11 | \$29 | 94% | 0.7 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | New | Lamp | 102 | 34% | 0.01 | 11 | \$22 | 94% | 1.0 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | New | Lamp | 99 | 32% | 0.01 | 11 | \$29 | 94% | 0.7 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | ROB | Lamp | 109 | 19% | 0.00 | 11 | \$28 | 94% | 0.5 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | ROB | Lamp | 131 | 32% | 0.01 | 11 | \$29 | 94% | 0.9 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | ROB | Lamp | 135 | 34% | 0.01 | 11 | \$22 | 94% | 1.3 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | ROB | Lamp | 131 | 32% | 0.01 | 11 | \$29 | 94% | 0.9 |
| PECO | Occupancy Sensor | Lighting w/ No Controls | Restaurant | Lin. Fluor. Lighting | Existing | building | 8,302 | 24% | 0.2 | 8 | \$273 | 13% | 3.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---|---|------------|---------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | ROB | motor | 274,987 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.7 |
| PECO | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | ROB | motor | 274,987 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.7 |
| PECO | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | ROB | motor | 274,987 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.7 |
| PECO | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | ROB | motor | 274,987 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.7 |
| PECO | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | ROB | motor | 274,987 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.7 |
| PECO | ASD HVAC Fan | Std. HVAC Fan | Restaurant | Motors | New | measure | 1,593 | 6.0% | 0.01 | 15 | \$6,520 | 85% | 0.0 |
| PECO | ASD HVAC Fan | Std. HVAC Fan | Restaurant | Motors | ROB | measure | 1,593 | 6.0% | 0.01 | 15 | \$6,520 | 85% | 0.0 |
| PECO | demand controlled ventilation | Absence of Demand Controlled Ventilation | Restaurant | Motors | Early | measure | 1,593 | 14% | 0.03 | 10 | \$15,205 | 92% | 0.0 |
| PECO | demand controlled ventilation | Office building thermostat | Restaurant | Motors | New | measure | 1,593 | 14% | 0.03 | 10 | \$11,863 | 92% | 0.0 |
| PECO | demand controlled ventilation | Office building thermostat | Restaurant | Motors | ROB | measure | 1,593 | 14% | 0.03 | 10 | \$11,863 | 92% | 0.0 |
| PECO | Downsizing motor during retrofit | Larger hp standard motor | Restaurant | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 23.3 |
| PECO | Downsizing motor during retrofit | Larger hp standard motor | Restaurant | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 23.7 |
| PECO | Downsizing motor during retrofit | Larger hp standard motor | Restaurant | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 24.3 |
| PECO | Downsizing motor during retrofit | Larger hp standard motor | Restaurant | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 25.4 |
| PECO | Downsizing motor during retrofit | Larger hp standard motor | Restaurant | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 25.2 |
| PECO | Downsizing motor during retrofit | Larger hp standard motor | Restaurant | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 23.5 |
| PECO | Downsizing motor during retrofit | Larger hp standard motor | Restaurant | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 23.6 |
| PECO | Downsizing motor during retrofit | Larger hp standard motor | Restaurant | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 24.3 |
| PECO | Downsizing motor during retrofit | Larger hp standard motor | Restaurant | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 25.3 |
| PECO | Downsizing motor during retrofit | Larger hp standard motor | Restaurant | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 25.3 |
| PECO | Escalator Motor Controller | Constant power control | Restaurant | Motors | New | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 22% | 6.3 |
| PECO | Escalator Motor Controller | Constant power control | Restaurant | Motors | ROB | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 22% | 6.3 |
| PECO | Fan Motor - correct sizing | Incorrect Fan Motor Sizing | Restaurant | Motors | ROB | measure | 1,593 | 1.6% | 0.00 | 15 | \$50 | 92% | 0.4 |
| PECO | Variable Speed Drive Control, 15HP | Existing Motors w/out VSD Drive | Restaurant | Motors | Early | motor | 57,415 | 70% | 4.4 | 15 | \$731 | 86% | 36.7 |
| PECO | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Restaurant | Motors | New | motor | 56,180 | 72% | 4.4 | 15 | \$731 | 86% | 36.7 |
| PECO | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Restaurant | Motors | ROB | motor | 56,180 | 72% | 4.4 | 15 | \$731 | 86% | 36.7 |
| PECO | Variable Speed Drive Control, 40HP | Existing Motors w/out VSD Drive | Restaurant | Motors | Early | motor | 149,814 | 71% | 11.7 | 15 | \$4,666 | 86% | 15.1 |
| PECO | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Restaurant | Motors | New | motor | 148,062 | 72% | 11.7 | 15 | \$4,666 | 86% | 15.1 |
| PECO | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Restaurant | Motors | ROB | motor | 148,062 | 72% | 11.7 | 15 | \$4,666 | 86% | 15.1 |
| PECO | Variable Speed Drive Control, 5HP | Existing Motors w/out VFD Drive | Restaurant | Motors | Early | motor | 19,904 | 70% | 1.5 | 15 | \$2,243 | 86% | 4.1 |
| PECO | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Restaurant | Motors | New | motor | 19,459 | 72% | 1.5 | 15 | \$2,243 | 86% | 4.1 |
| PECO | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Restaurant | Motors | ROB | motor | 19,459 | 72% | 1.5 | 15 | \$2,243 | 86% | 4.1 |
| PECO | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Restaurant | Motors | Early | motor | 1,863 | 60% | 0.1 | 15 | \$268 | 86% | 2.8 |
| PECO | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Restaurant | Motors | New | motor | 1,863 | 60% | 0.1 | 15 | \$268 | 86% | 2.8 |
| PECO | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Restaurant | Motors | ROB | motor | 1,863 | 60% | 0.1 | 15 | \$268 | 86% | 2.8 |
| PECO | VFD on Chilled Water Pump | Motor w/out VFD Drive | Restaurant | Motors | Early | motor | 18,724 | 54% | 2.7 | 15 | \$2,903 | 86% | 2.8 |
| PECO | VFD on Chilled Water Pump | Motor w/out VFD Drive | Restaurant | Motors | New | motor | 18,373 | 55% | 2.7 | 15 | \$2,843 | 86% | 2.9 |
| PECO | VFD on Chilled Water Pump | Motor w/out VFD Drive | Restaurant | Motors | ROB | motor | 18,373 | 55% | 2.7 | 15 | \$2,843 | 86% | 2.9 |
| PECO | VFD on Condenser Water Pump | Motor w/out VFD Drive | Restaurant | Motors | Early | motor | 18,641 | 32% | 3.2 | 15 | \$2,903 | 86% | 2.3 |
| PECO | VFD on Condenser Water Pump | Motor w/out VFD Drive | Restaurant | Motors | New | motor | 18,292 | 33% | 3.1 | 15 | \$2,843 | 86% | 2.3 |
| PECO | VFD on Condenser Water Pump | Motor w/out VFD Drive | Restaurant | Motors | ROB | motor | 18,292 | 33% | 3.1 | 15 | \$2,843 | 86% | 2.3 |
| PECO | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Restaurant | Motors | Early | motor | 24,733 | 56% | 0.00 | 15 | \$2,903 | 86% | 2.5 |
| PECO | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Restaurant | Motors | New | motor | 24,271 | 57% | 0.00 | 15 | \$2,843 | 86% | 2.6 |
| PECO | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Restaurant | Motors | ROB | motor | 24,271 | 57% | 0.00 | 15 | \$2,843 | 86% | 2.6 |
| PECO | VFD on HVAC Fan | Motor w/out VFD | Restaurant | Motors | Early | motor | 18,724 | 70% | 3.4 | 15 | \$2,903 | 86% | 3.7 |
| PECO | VFD on HVAC Fan | Motor w/out VFD | Restaurant | Motors | New | motor | 18,373 | 72% | 3.3 | 15 | \$2,843 | 86% | 3.8 |
| PECO | VFD on HVAC Fan | Motor w/out VFD | Restaurant | Motors | ROB | motor | 18,373 | 72% | 3.3 | 15 | \$2,843 | 86% | 3.8 |
| PECO | Elevators | Std. Eff Elevator | Restaurant | Other | ROB | measure | 89,016 | 4.7% | 0.2 | 15 | \$443 | 81% | 5.4 |
| PECO | Variable Speed Drives on Process Equipment | Constant speed control | Restaurant | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 11.7 |
| PECO | Variable Speed Drives on Process Equipment | Constant speed control | Restaurant | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 11.7 |
| PECO | Auto Off Time Switch | Lighting w/ No Controls | Restaurant | Other Int. Lighting | Existing | building | 3,320 | 24% | 0.2 | 8 | \$181 | 13% | 2.4 |
| PECO | Auto Off Time Switch | Lighting w/ No Controls | Restaurant | Other Int. Lighting | New | building | 3,320 | 7.0% | 0.07 | 8 | \$181 | 0% | 0.7 |
| PECO | Central Lighting Control System | Lighting w/ No Controls | Restaurant | Other Int. Lighting | Existing | building | 3,320 | 38% | 0.4 | 8 | \$181 | 13% | 3.7 |
| PECO | Central Lighting Control System | Lighting w/ No Controls | Restaurant | Other Int. Lighting | New | building | 3,320 | 14% | 0.1 | 8 | \$181 | 13% | 1.4 |
| PECO | Cold Cathode Screw-In Bulb | 40W Incandescent Bulb | Restaurant | Other Int. Lighting | Early | lamp | 253 | 87% | 0.05 | 5 | \$30 | 14% | 2.3 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Restaurant | Other Int. Lighting | Early | lamp | 181 | 81% | 0.03 | 5 | \$30 | 11% | 1.5 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Restaurant | Other Int. Lighting | New | lamp | 138 | 81% | 0.02 | 5 | \$21 | 14% | 1.6 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Restaurant | Other Int. Lighting | New | lamp | 138 | 81% | 0.02 | 5 | \$23 | 14% | 1.5 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Restaurant | Other Int. Lighting | New | lamp | 138 | 81% | 0.02 | 5 | \$22 | 11% | 1.6 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Restaurant | Other Int. Lighting | ROB | lamp | 181 | 81% | 0.03 | 5 | \$21 | 14% | 2.1 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Restaurant | Other Int. Lighting | ROB | lamp | 181 | 81% | 0.03 | 5 | \$23 | 14% | 2.0 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Restaurant | Other Int. Lighting | ROB | lamp | 181 | 81% | 0.03 | 5 | \$22 | 11% | 2.1 |
| PECO | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Restaurant | Other Int. Lighting | Early | lamp | 253 | 75% | 0.04 | 2 | \$73 | 18% | 0.3 |
| PECO | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Restaurant | Other Int. Lighting | New | fixture | 275 | 65% | 0.04 | 13 | \$29 | 21% | 4.4 |
| PECO | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Restaurant | Other Int. Lighting | New | lamp | 138 | 65% | 0.02 | 2 | \$29 | 21% | 0.4 |
| PECO | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Restaurant | Other Int. Lighting | ROB | fixture | 362 | 65% | 0.05 | 13 | \$29 | 18% | 5.8 |
| PECO | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Restaurant | Other Int. Lighting | ROB | lamp | 181 | 65% | 0.03 | 2 | \$29 | 18% | 0.5 |
| PECO | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Restaurant | Other Int. Lighting | Early | lamp | 253 | 75% | 0.04 | 2 | \$3.2 | 20% | 7.7 |
| PECO | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Restaurant | Other Int. Lighting | New | lamp | 138 | 65% | 0.02 | 2 | \$1.8 | 20% | 6.5 |
| PECO | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Restaurant | Other Int. Lighting | ROB | lamp | 181 | 65% | 0.03 | 2 | \$1.8 | 20% | 8.6 |
| PECO | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Restaurant | Other Int. Lighting | ROB | lamp | 181 | 65% | 0.03 | 2 | \$1.8 | 20% | 8.6 |
| PECO | Exit Sign Retrofit: CFL replacing Incandescent | One 23W Single Sided Incandescent Exit Sign | Restaurant | Other Int. Lighting | Early | exit sign | 121 | 42% | 0.01 | 15 | \$48 | 22% | 0.8 |
| PECO | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Restaurant | Other Int. Lighting | New | building | 3,320 | 10% | 0.1 | 15 | \$46,260 | 32% | 0.0 |
| PECO | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Restaurant | Other Int. Lighting | New | building | 3,320 | 15% | 0.2 | 15 | \$115,651 | 32% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---|---|------------|---------------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Restaurant | Other Int. Lighting | New | building | 3,320 | 30% | 0.3 | 15 | \$165,766 | 32% | 0.0 |
| PECO | Indoor Daylight Sensors | Lighting w/ No Controls | Restaurant | Other Int. Lighting | Existing | building | 3,320 | 28% | 0.3 | 8 | \$891 | 13% | 0.6 |
| PECO | Indoor Daylight Sensors | Lighting w/ No Controls | Restaurant | Other Int. Lighting | New | building | 3,320 | 4.1% | 0.04 | 8 | \$891 | 0% | 0.1 |
| PECO | LED Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Restaurant | Other Int. Lighting | Early | sign | 153 | 87% | 0.02 | 15 | \$48 | 16% | 1.9 |
| PECO | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Restaurant | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 2.1 |
| PECO | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Restaurant | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 2.1 |
| PECO | LED Task Lighting/Screw-In | 1 15W CFL bulb | Restaurant | Other Int. Lighting | Early | lamp | 41 | 33% | 0.00 | 8 | \$9.6 | 20% | 0.7 |
| PECO | LED Task Lighting/Screw-In | 1 60W Incandescent Bulb | Restaurant | Other Int. Lighting | Early | lamp | 163 | 83% | 0.03 | 8 | \$9.6 | 20% | 6.9 |
| PECO | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Restaurant | Other Int. Lighting | New | lamp | 89 | 77% | 0.02 | 8 | \$7.9 | 20% | 4.2 |
| PECO | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Restaurant | Other Int. Lighting | New | lamp | 89 | 77% | 0.02 | 8 | \$7.9 | 20% | 4.2 |
| PECO | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Restaurant | Other Int. Lighting | ROB | lamp | 116 | 77% | 0.02 | 8 | \$7.9 | 20% | 5.5 |
| PECO | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Restaurant | Other Int. Lighting | ROB | lamp | 116 | 77% | 0.02 | 8 | \$7.9 | 20% | 5.5 |
| PECO | Occupancy Sensor | Lighting w/ No Controls | Restaurant | Other Int. Lighting | Existing | building | 3,320 | 24% | 0.2 | 8 | \$273 | 12% | 1.6 |
| PECO | Occupancy Sensor | Lighting w/ No Controls | Restaurant | Other Int. Lighting | New | building | 3,320 | 7.0% | 0.07 | 8 | \$273 | 0% | 0.5 |
| PECO | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Restaurant | Other Int. Lighting | Existing | building | 3,320 | 28% | 0.3 | 8 | \$891 | 12% | 0.6 |
| PECO | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Restaurant | Other Int. Lighting | New | building | 3,320 | 4.1% | 0.04 | 8 | \$891 | 0% | 0.1 |
| PECO | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Restaurant | Other Int. Lighting | Early | exit sign | 121 | 100% | 0.02 | 15 | \$173 | 26% | 0.5 |
| PECO | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Restaurant | Other Int. Lighting | New | exit sign | 70 | 100% | 0.01 | 15 | \$148 | 31% | 0.3 |
| PECO | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Restaurant | Other Int. Lighting | ROB | exit sign | 70 | 100% | 0.01 | 15 | \$148 | 26% | 0.3 |
| PECO | Time Clock Control | Lighting w/ No Controls | Restaurant | Other Int. Lighting | Existing | building | 3,320 | 28% | 0.3 | 8 | \$181 | 13% | 2.7 |
| PECO | Time Clock Control | Lighting w/ No Controls | Restaurant | Other Int. Lighting | New | building | 3,320 | 4.1% | 0.04 | 8 | \$181 | 0% | 0.4 |
| PECO | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Restaurant | Plug Load | Existing | building | 2,913 | 46% | 0.5 | 5 | \$189 | 4% | 2.6 |
| PECO | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Restaurant | Plug Load | New | building | 1,422 | 46% | 0.5 | 5 | \$189 | 4% | 1.8 |
| PECO | Data Center - Server/Storage Consolidation | No Consolidation | Restaurant | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PECO | Data Center - Server/Storage Consolidation | No Consolidation | Restaurant | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PECO | Data Center - Server/Storage Virtualization | No Virtualization | Restaurant | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PECO | Data Center - Server/Storage Virtualization | No Virtualization | Restaurant | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PECO | Energy Star - Scanners | Std Scanner | Restaurant | Plug Load | New | measure | 68 | 3.8% | 0.04 | 4 | \$130 | 7% | 0.1 |
| PECO | Energy Star - Scanners | Std Scanner | Restaurant | Plug Load | ROB | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| PECO | Energy Star Dishwasher | Existing Dishwasher units | Restaurant | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,580 | 23% | 1.1 |
| PECO | Energy Star Dishwasher | Standard Dishwasher unit | Restaurant | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 23% | 3.6 |
| PECO | Energy Star Dishwasher | Standard Dishwasher unit | Restaurant | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 23% | 3.6 |
| PECO | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Restaurant | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 17% | 0.2 |
| PECO | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Restaurant | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.3 |
| PECO | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Restaurant | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.3 |
| PECO | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Restaurant | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 9% | 0.8 |
| PECO | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Restaurant | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.8 |
| PECO | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Restaurant | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.8 |
| PECO | ENERGY STAR® Copiers | 10% Less Efficient Copier | Restaurant | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 18% | 0.0 |
| PECO | ENERGY STAR® Copiers | One Conventional Copier | Restaurant | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| PECO | ENERGY STAR® Copiers | One Conventional Copier | Restaurant | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| PECO | ENERGY STAR® desktop | Standard computer | Restaurant | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 69% | 0.1 |
| PECO | ENERGY STAR® desktop | Standard computer | Restaurant | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.4 |
| PECO | ENERGY STAR® desktop | Standard computer | Restaurant | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.4 |
| PECO | ENERGY STAR® Fax | 10% Less Efficient Fax | Restaurant | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 15% | 0.0 |
| PECO | ENERGY STAR® Fax | One Conventional Fax | Restaurant | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| PECO | ENERGY STAR® Fax | One Conventional Fax | Restaurant | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| PECO | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Restaurant | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 70% | 0.0 |
| PECO | ENERGY STAR® Monitors | One Conventional Monitor | Restaurant | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| PECO | ENERGY STAR® Monitors | One Conventional Monitor | Restaurant | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| PECO | ENERGY STAR® Printers | 10% Less Efficient Printer | Restaurant | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 44% | 0.0 |
| PECO | ENERGY STAR® Printers | One Conventional Printer | Restaurant | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.4 |
| PECO | ENERGY STAR® Printers | One Conventional Printer | Restaurant | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.4 |
| PECO | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Restaurant | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 43% | 0.1 |
| PECO | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Restaurant | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.8 |
| PECO | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Restaurant | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.8 |
| PECO | ENERGY STAR® Televisions | 10% Less Efficient Television | Restaurant | Plug Load | Early | Unit | 371 | 38% | 0.02 | 6 | \$672 | 40% | 0.1 |
| PECO | ENERGY STAR® Televisions | One Conventional Television | Restaurant | Plug Load | New | Unit | 337 | 32% | 0.02 | 6 | \$206 | 40% | 0.2 |
| PECO | ENERGY STAR® Televisions | One Conventional Television | Restaurant | Plug Load | ROB | Unit | 337 | 32% | 0.02 | 6 | \$206 | 40% | 0.2 |
| PECO | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Restaurant | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 24% | 0.3 |
| PECO | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Restaurant | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.7 |
| PECO | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Restaurant | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.7 |
| PECO | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Restaurant | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 51% | 0.3 |
| PECO | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Restaurant | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 51% | 0.3 |
| PECO | Network PC Power Management | No PC Power Management | Restaurant | Plug Load | Existing | building | 425 | 33% | 0.3 | 5 | \$12 | 38% | 15.4 |
| PECO | Network PC Power Management | No PC Power Management | Restaurant | Plug Load | New | building | 425 | 33% | 0.3 | 5 | \$12 | 38% | 15.4 |
| PECO | Smart Strip Plug Outlets | Standard plug strip/outlet | Restaurant | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.4 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---|---|------------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Smart Strip Plug Outlets | Standard plug strip/outlet | Restaurant | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.4 |
| PECO | Smart Strip Plug Outlets | Standard plug strip/outlet | Restaurant | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PECO | Smart Strip Plug Outlets | Standard plug strip/outlet | Restaurant | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PECO | Smart Strip Plug Outlets | Standard plug strip/outlet | Restaurant | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PECO | Smart Strip Plug Outlets | Standard plug strip/outlet | Restaurant | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PECO | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Restaurant | Plug Load | Existing | building | 2,913 | 46% | 0.5 | 5 | \$180 | 3% | 2.7 |
| PECO | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Restaurant | Plug Load | New | building | 1,422 | 46% | 0.5 | 5 | \$180 | 3% | 1.9 |
| PECO | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Restaurant | Refrigeration | Existing | building | 2,915 | 6.1% | 0.06 | 12 | \$70 | 11% | 1.9 |
| PECO | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Restaurant | Refrigeration | New | building | 2,915 | 6.1% | 0.06 | 12 | \$70 | 11% | 1.9 |
| PECO | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Restaurant | Refrigeration | Existing | building | 2,915 | 0.9% | 0.01 | 12 | \$70 | 11% | 0.3 |
| PECO | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Restaurant | Refrigeration | New | building | 2,915 | 0.9% | 0.01 | 12 | \$70 | 11% | 0.3 |
| PECO | Auto Closer on Refrigerator Door | Door w/out Autocloser | Restaurant | Refrigeration | Existing | building | 8,745 | 8.2% | 0.08 | 8 | \$770 | 40% | 0.4 |
| PECO | Auto Closer on Refrigerator Door | Door w/out Autocloser | Restaurant | Refrigeration | Existing | building | 21,157 | 4.5% | 0.05 | 8 | \$766 | 40% | 0.4 |
| PECO | Auto Closer on Refrigerator Door | Door w/out Autocloser | Restaurant | Refrigeration | New | building | 8,745 | 8.2% | 0.08 | 8 | \$770 | 40% | 0.4 |
| PECO | Auto Closer on Refrigerator Door | Door w/out Autocloser | Restaurant | Refrigeration | New | building | 21,157 | 4.5% | 0.05 | 8 | \$766 | 40% | 0.4 |
| PECO | Demand Hot Gas Defrost | Base Refrigeration System | Restaurant | Refrigeration | Existing | building | 2,915 | 3.0% | 0.03 | 10 | \$1,310 | 0% | 0.0 |
| PECO | Demand Hot Gas Defrost | Base Refrigeration System | Restaurant | Refrigeration | New | building | 2,915 | 3.0% | 0.03 | 10 | \$1,310 | 0% | 0.0 |
| PECO | Door Gasket- Freezer | Door w/out Gasket | Restaurant | Refrigeration | Existing | building | 8,745 | 4.4% | 0.04 | 4 | \$79 | 29% | 1.0 |
| PECO | Door Gasket- Freezer | Door w/out Gasket | Restaurant | Refrigeration | New | building | 8,745 | 5.5% | 0.06 | 4 | \$79 | 29% | 1.3 |
| PECO | Door Gasket- Refrigerator | Door w/out Gasket | Restaurant | Refrigeration | Existing | building | 21,157 | 1.7% | 0.02 | 4 | \$106 | 45% | 0.6 |
| PECO | Door Gasket- Refrigerator | Door w/out Gasket | Restaurant | Refrigeration | New | building | 21,157 | 1.7% | 0.02 | 4 | \$106 | 45% | 0.6 |
| PECO | eCube | Refrigeration unit w/out eCube | Restaurant | Refrigeration | Existing | building | 21,157 | 15% | 0.2 | 15 | \$1,946 | 57% | 0.9 |
| PECO | eCube | Refrigeration unit w/out eCube | Restaurant | Refrigeration | New | building | 21,157 | 15% | 0.2 | 15 | \$1,946 | 57% | 0.9 |
| PECO | Efficient compressor motor | Base Refrigeration System - Grocery | Restaurant | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| PECO | Efficient compressor motor | Base Refrigeration System - Grocery | Restaurant | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| PECO | Efficient compressor motor | Base Refrigeration System - Grocery | Restaurant | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| PECO | Efficient compressor motor | Base Refrigeration System - Grocery | Restaurant | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| PECO | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Restaurant | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.6 |
| PECO | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Restaurant | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| PECO | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Restaurant | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| PECO | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Restaurant | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.3 |
| PECO | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Restaurant | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.8 |
| PECO | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Restaurant | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.8 |
| PECO | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Restaurant | Refrigeration | Existing | building | 21,157 | 1.5% | 0.02 | 10 | \$369 | 77% | 0.4 |
| PECO | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Restaurant | Refrigeration | New | building | 21,157 | 1.5% | 0.02 | 10 | \$369 | 77% | 0.4 |
| PECO | Floating head pressure controller | System w/out FHPC | Restaurant | Refrigeration | Existing | building | 8,745 | 2.6% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| PECO | Floating head pressure controller | System w/out FHPC | Restaurant | Refrigeration | Existing | building | 2,915 | 3.3% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| PECO | Floating head pressure controller | System w/out FHPC | Restaurant | Refrigeration | Existing | building | 21,157 | 0.4% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| PECO | Floating head pressure controller | System w/out FHPC | Restaurant | Refrigeration | New | building | 8,745 | 2.6% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| PECO | Floating head pressure controller | System w/out FHPC | Restaurant | Refrigeration | New | building | 21,157 | 0.4% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| PECO | Floating head pressure controller | System w/out FHPC | Restaurant | Refrigeration | New | building | 2,915 | 3.3% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| PECO | High Efficiency Commercial Freezer | Std. Commercial Freezer | Restaurant | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 79% | 0.3 |
| PECO | High Efficiency Commercial Freezer | Std. Commercial Freezer | Restaurant | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 79% | 4.2 |
| PECO | High Efficiency Commercial Freezer | Std. Commercial Freezer | Restaurant | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 79% | 4.2 |
| PECO | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Restaurant | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 79% | 0.1 |
| PECO | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Restaurant | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 79% | 0.9 |
| PECO | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Restaurant | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 79% | 0.9 |
| PECO | High Efficiency Ice Maker | Exisiting Standard Efficiency Ice Maker in Pennsylvania | Restaurant | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 69% | 0.2 |
| PECO | High Efficiency Ice Maker | Standard code minimum Ice Maker | Restaurant | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| PECO | High Efficiency Ice Maker | Standard code minimum Ice Maker | Restaurant | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 69% | 0.2 |
| PECO | High Efficiency Ice Making Head | Standard Ice Making Head | Restaurant | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 4.1 |
| PECO | High Efficiency Ice Making Head | Standard Ice Making Head | Restaurant | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 4.1 |
| PECO | High R-Value Glass Doors | Base Refrigeration System - Grocery | Restaurant | Refrigeration | Existing | building | 2,915 | 0.7% | 0.01 | 10 | \$50 | 0% | 0.3 |
| PECO | High R-Value Glass Doors | Base Refrigeration System - Grocery | Restaurant | Refrigeration | New | building | 2,915 | 0.7% | 0.01 | 10 | \$50 | 0% | 0.3 |
| PECO | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Restaurant | Refrigeration | Early | Fixture | 373 | 56% | 0.03 | 8 | \$448 | 89% | 0.2 |
| PECO | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Restaurant | Refrigeration | New | Fixture | 291 | 44% | 0.02 | 8 | \$139 | 89% | 0.4 |
| PECO | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Restaurant | Refrigeration | ROB | Fixture | 291 | 44% | 0.02 | 8 | \$139 | 89% | 0.4 |
| PECO | No-heat glass doors | Standard low-temp reach-in | Restaurant | Refrigeration | Existing | building | 2,915 | 20% | 0.2 | 10 | \$4,586 | 8% | 0.1 |
| PECO | No-heat glass doors | Standard low-temp reach-in | Restaurant | Refrigeration | New | building | 2,915 | 20% | 0.2 | 10 | \$4,586 | 8% | 0.1 |
| PECO | Quick acting freezer doors | Std. Freezer Doors | Restaurant | Refrigeration | Existing | building | 8,745 | 13% | 0.1 | 10 | \$2,699 | 56% | 0.2 |
| PECO | Quick acting freezer doors | Std. Freezer Doors | Restaurant | Refrigeration | New | building | 8,745 | 13% | 0.1 | 10 | \$2,699 | 56% | 0.2 |
| PECO | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Restaurant | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 29% | 0.4 |
| PECO | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Restaurant | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 29% | 1.6 |
| PECO | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Restaurant | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 29% | 1.6 |
| PECO | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 29% | 1.7 |
| PECO | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 29% | 3.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---|---|------------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 29% | 3.0 |
| PECO | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 29% | 1.7 |
| PECO | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 29% | 4.0 |
| PECO | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 29% | 4.0 |
| PECO | Refrigeration Commissioning | Non-commissioned refrigeration system | Restaurant | Refrigeration | Existing | building | 34,007 | 9.5% | 0.10 | 3 | \$4,759 | 85% | 0.1 |
| PECO | Refrigeration Commissioning | Non-commissioned refrigeration system | Restaurant | Refrigeration | New | building | 34,007 | 9.5% | 0.10 | 3 | \$4,759 | 85% | 0.1 |
| PECO | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Restaurant | Refrigeration | Existing | building | 8,745 | 11% | 0.1 | 4 | \$96 | 22% | 2.0 |
| PECO | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Restaurant | Refrigeration | Existing | building | 21,157 | 2.0% | 0.02 | 4 | \$128 | 22% | 0.6 |
| PECO | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Restaurant | Refrigeration | New | building | 8,745 | 11% | 0.1 | 4 | \$96 | 22% | 2.0 |
| PECO | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Restaurant | Refrigeration | New | building | 21,157 | 2.0% | 0.02 | 4 | \$128 | 22% | 0.6 |
| PECO | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Restaurant | Refrigeration | Existing | building | 8,745 | 2.2% | 0.02 | 11 | \$148 | 77% | 0.7 |
| PECO | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Restaurant | Refrigeration | New | building | 8,745 | 2.2% | 0.02 | 11 | \$148 | 77% | 0.7 |
| PECO | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Restaurant | Refrigeration | Existing | building | 21,157 | 1.6% | 0.02 | 11 | \$148 | 77% | 1.0 |
| PECO | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Restaurant | Refrigeration | New | building | 21,157 | 1.6% | 0.02 | 11 | \$148 | 77% | 1.0 |
| PECO | Vertical Night Covers | Display cases w/out night covers-High Temperature | Restaurant | Refrigeration | Existing | building | 2,915 | 0.1% | 0.00 | 5 | \$38 | 9% | 0.0 |
| PECO | Vertical Night Covers | Display cases w/out night covers-High Temperature | Restaurant | Refrigeration | New | building | 2,915 | 0.1% | 0.00 | 5 | \$38 | 9% | 0.0 |
| PECO | VSD Controlled Compressor | Compressor w/out VSD | Restaurant | Refrigeration | Early | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 73% | 0.2 |
| PECO | VSD Controlled Compressor | Compressor w/out VSD | Restaurant | Refrigeration | New | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 73% | 0.2 |
| PECO | VSD Controlled Compressor | Compressor w/out VSD | Restaurant | Refrigeration | ROB | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 73% | 0.2 |
| PECO | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Restaurant | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$269 | 35% | 0.9 |
| PECO | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Restaurant | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$269 | 35% | 0.9 |
| PECO | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Restaurant | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.2 |
| PECO | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Restaurant | Refrigeration | New | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 3.0 |
| PECO | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Restaurant | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.2 |
| PECO | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Restaurant | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 3.0 |
| PECO | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 35% | 2.4 |
| PECO | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 35% | 2.3 |
| PECO | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 5.2 |
| PECO | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.9 |
| PECO | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 5.2 |
| PECO | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.9 |
| PECO | Adding reflective roof treatment | Std color roof | Restaurant | Space Heating | Existing | building | 242 | 7.1% | 0.07 | 6 | \$19,945 | 82% | 0.0 |
| PECO | Adding reflective roof treatment | Std color roof | Restaurant | Space Heating | New | building | 242 | 7.1% | 0.07 | 6 | \$19,945 | 82% | 0.0 |
| PECO | Adding window shade film | No shade film | Restaurant | Space Heating | Existing | building | 242 | 1.3% | 0.4 | 10 | \$2.9 | 13% | 99.7 |
| PECO | Adding window shade film | No shade film | Restaurant | Space Heating | New | building | 242 | 1.3% | 0.4 | 10 | \$2.9 | 13% | 99.7 |
| PECO | Adding window shade screen | No shade screen | Restaurant | Space Heating | Existing | building | 242 | 1.1% | 0.01 | 10 | \$1.1 | 13% | 7.8 |
| PECO | Adding window shade screen | No shade screen | Restaurant | Space Heating | New | building | 242 | 1.1% | 0.01 | 10 | \$1.1 | 13% | 7.8 |
| PECO | Automated control system | Manual Controls | Restaurant | Space Heating | Existing | building | 242 | 17% | 0.2 | 15 | \$264 | 51% | 0.8 |
| PECO | Automated control system | Manual Controls | Restaurant | Space Heating | New | building | 242 | 17% | 0.2 | 15 | \$264 | 94% | 0.8 |
| PECO | Ceiling Insulations (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Restaurant | Space Heating | Existing | building | 242 | 8.9% | 0.09 | 15 | \$26,661 | 71% | 0.0 |
| PECO | Ceiling Insulations (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Restaurant | Space Heating | New | building | 242 | 3.0% | 0.03 | 15 | \$25,342 | 94% | 0.0 |
| PECO | Duct Insulation, Add R8 | No Insulation | Restaurant | Space Heating | Existing | building | 242 | 1.4% | 0.04 | 15 | \$1.9 | 20% | 22.8 |
| PECO | Duct Insulation, Add R8 | No Insulation | Restaurant | Space Heating | New | building | 242 | 1.4% | 0.04 | 15 | \$1.9 | 10% | 22.8 |
| PECO | Efficient Unit Heating System | Existing Unit Heaters in PA | Restaurant | Space Heating | Early | heater | 32,792 | 23% | 0.06 | 15 | \$3,289 | 83% | 1.2 |
| PECO | Efficient Unit Heating System | Std. Unit Heater | Restaurant | Space Heating | New | heater | 29,103 | 13% | 0.03 | 15 | \$1,991 | 83% | 1.0 |
| PECO | Efficient Unit Heating System | Std. Unit Heater | Restaurant | Space Heating | ROB | heater | 29,103 | 13% | 0.03 | 15 | \$1,991 | 83% | 1.0 |
| PECO | Facility Commissioning | No Facility Commissioning | Restaurant | Space Heating | New | building | 242 | 16% | 0.2 | 10 | \$8,050 | 89% | 0.0 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Restaurant | Space Heating | Existing | building | 242 | 7.1% | 0.07 | 15 | \$1,071 | 25% | 0.1 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Restaurant | Space Heating | New | building | 242 | 7.1% | 0.07 | 15 | \$1,071 | 35% | 0.1 |
| PECO | Hi Eff HVAC System Design | No HVAC Design | Restaurant | Space Heating | New | building | 242 | 12% | 0.1 | 10 | \$113,757 | 51% | 0.0 |
| PECO | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Restaurant | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 1.1 |
| PECO | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Restaurant | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 1.1 |
| PECO | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Restaurant | Space Heating | Existing | building | 242 | 3.5% | 0.04 | 10 | \$7,735 | 81% | 0.0 |
| PECO | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Restaurant | Space Heating | New | building | 242 | 3.5% | 0.04 | 10 | \$7,735 | 81% | 0.0 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Restaurant | Space Heating | Existing | building | 242 | 3.6% | 0.04 | 11 | \$286 | 49% | 0.1 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Restaurant | Space Heating | New | building | 242 | 3.1% | 0.03 | 11 | \$146 | 49% | 0.2 |
| PECO | Re-Commissioning (Existing Construction) | No Re-Commissioning | Restaurant | Space Heating | Existing | building | 242 | 16% | 0.2 | 5 | \$12,732 | 86% | 0.0 |
| PECO | VFD on Cooling Tower Fan | Motor w/out VFD | Restaurant | Space Heating | Early | motor | 18,724 | 70% | 3.4 | 15 | \$2,843 | 88% | 3.7 |
| PECO | VFD on Cooling Tower Fan | Motor w/out VFD | Restaurant | Space Heating | New | motor | 18,373 | 72% | 3.3 | 15 | \$2,843 | 88% | 3.7 |
| PECO | VFD on Cooling Tower Fan | Motor w/out VFD | Restaurant | Space Heating | ROB | motor | 18,373 | 72% | 3.3 | 15 | \$2,843 | 88% | 3.7 |
| PECO | Wall Insulations (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Restaurant | Space Heating | Existing | building | 242 | 12% | 0.1 | 15 | \$6,404 | 26% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|--|---|------------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Wall Insulations (Going upto R 21) | Code minimum Wall Insulations | Restaurant | Space Heating | New | building | 242 | 0.5% | 0.01 | 15 | \$4,912 | 94% | 0.0 |
| PECO | Green LED Traffic Light | Green Incandescent Traffic Light | Restaurant | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 0% | 1.3 |
| PECO | Green LED Traffic Light | Green Incandescent Traffic Light | Restaurant | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.2 |
| PECO | Green LED Traffic Light | Green Incandescent Traffic Light | Restaurant | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.2 |
| PECO | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Restaurant | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 0% | 3.2 |
| PECO | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Restaurant | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| PECO | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Restaurant | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| PECO | Induction Street Lighting | One 100W HPS Street Light Fixture | Restaurant | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 0% | 0.3 |
| PECO | Induction Street Lighting | One 100W HPS Street Light Fixture | Restaurant | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.8 |
| PECO | Induction Street Lighting | One 100W HPS Street Light Fixture | Restaurant | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.8 |
| PECO | LED Street Lighting | One 100W HPS Street Light | Restaurant | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 0% | 0.2 |
| PECO | LED Street Lighting | One 100W HPS Street Light | Restaurant | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| PECO | LED Street Lighting | One 100W HPS Street Light | Restaurant | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| PECO | Red LED Traffic Light | One Red Incandescent Traffic Light | Restaurant | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 0% | 1.7 |
| PECO | Red LED Traffic Light | One Red Incandescent Traffic Light | Restaurant | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| PECO | Red LED Traffic Light | One Red Incandescent Traffic Light | Restaurant | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| PECO | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Restaurant | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 0% | 0.1 |
| PECO | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Restaurant | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| PECO | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Restaurant | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| PECO | Demand controlled Circulating Systems | Constant circulation system | Restaurant | Water Heating | Existing | building | 1,239 | 20% | 0.2 | 15 | \$225 | 59% | 1.5 |
| PECO | Demand controlled Circulating Systems | Constant circulation system | Restaurant | Water Heating | New | building | 1,239 | 20% | 0.2 | 15 | \$225 | 59% | 1.5 |
| PECO | Drainwater Heat Recovery Water Heater | No heat recovery | Restaurant | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 2.0 |
| PECO | Drainwater Heat Recovery Water Heater | No heat recovery | Restaurant | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 2.0 |
| PECO | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Restaurant | Water Heating | Existing | building | 1,239 | 5.9% | 0.06 | 12 | \$14 | 85% | 6.2 |
| PECO | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Restaurant | Water Heating | New | building | 1,239 | 5.9% | 0.06 | 12 | \$4.0 | 85% | 21.8 |
| PECO | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Restaurant | Water Heating | Early | water heater | 179,161 | 66% | 21.0 | 10 | \$7,124 | 68% | 8.9 |
| PECO | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Restaurant | Water Heating | Early | water heater | 179,161 | 66% | 21.0 | 10 | \$7,124 | 68% | 8.9 |
| PECO | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Restaurant | Water Heating | New | water heater | 179,161 | 66% | 21.0 | 10 | \$7,124 | 68% | 8.9 |
| PECO | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Restaurant | Water Heating | New | water heater | 179,161 | 66% | 21.0 | 10 | \$7,124 | 68% | 8.9 |
| PECO | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Restaurant | Water Heating | ROB | water heater | 174,184 | 65% | 20.1 | 10 | \$7,124 | 68% | 8.6 |
| PECO | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Restaurant | Water Heating | ROB | water heater | 174,184 | 65% | 20.1 | 10 | \$7,124 | 68% | 8.6 |
| PECO | Heat Recovery Unit | Base Water Heating | Restaurant | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.7 |
| PECO | Heat Recovery Unit | Base Water Heating | Restaurant | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.7 |
| PECO | Heat Trap | No Heat Trap | Restaurant | Water Heating | Existing | building | 1,239 | 1.0% | 0.01 | 11 | \$0.2 | 50% | 58.6 |
| PECO | Heat Trap | No Heat Trap | Restaurant | Water Heating | New | building | 1,239 | 1.0% | 0.01 | 11 | \$0.1 | 50% | 153.0 |
| PECO | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Restaurant | Water Heating | Early | water heater | 179,161 | 5.9% | 1.9 | 15 | \$1,842 | 79% | 4.2 |
| PECO | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Restaurant | Water Heating | Early | water heater | 179,161 | 5.9% | 1.9 | 15 | \$1,842 | 79% | 4.2 |
| PECO | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Restaurant | Water Heating | New | water heater | 174,184 | 3.2% | 1.0 | 15 | \$1,842 | 79% | 2.2 |
| PECO | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Restaurant | Water Heating | New | water heater | 174,184 | 3.2% | 1.0 | 15 | \$1,842 | 79% | 2.2 |
| PECO | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Restaurant | Water Heating | ROB | water heater | 174,184 | 3.2% | 1.0 | 15 | \$1,842 | 79% | 2.2 |
| PECO | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Restaurant | Water Heating | ROB | water heater | 174,184 | 3.2% | 1.0 | 15 | \$1,842 | 79% | 2.2 |
| PECO | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Restaurant | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$466 | 81% | 41.5 |
| PECO | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Restaurant | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 21.6 |
| PECO | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Restaurant | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 21.6 |
| PECO | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Restaurant | Water Heating | Existing | building | 1,239 | 3.0% | 0.03 | 13 | \$5.5 | 68% | 8.6 |
| PECO | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Restaurant | Water Heating | New | building | 1,239 | 3.0% | 0.03 | 13 | \$5.5 | 0% | 8.6 |
| PECO | Hot Water Circulation Pump Time-Clock | Constant circulation system | Restaurant | Water Heating | Existing | building | 1,239 | 5.3% | 0.05 | 10 | \$5.0 | 72% | 13.6 |
| PECO | Hot Water Circulation Pump Time-Clock | Constant circulation system | Restaurant | Water Heating | New | building | 1,239 | 5.3% | 0.05 | 10 | \$5.0 | 72% | 13.6 |
| PECO | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Restaurant | Water Heating | Existing | building | 1,139 | 0.1% | 0.00 | 7 | \$22 | 78% | 0.0 |
| PECO | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Restaurant | Water Heating | New | building | 1,139 | 6.6% | 0.07 | 7 | \$0.5 | 78% | 122.3 |
| PECO | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Restaurant | Water Heating | Existing | building | 1,239 | 13% | 0.1 | 5 | \$300 | 80% | 0.3 |
| PECO | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Restaurant | Water Heating | New | building | 1,239 | 13% | 0.1 | 5 | \$194 | 80% | 0.5 |
| PECO | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Restaurant | Water Heating | Existing | building | 1,239 | 6.5% | 0.07 | 9 | \$25 | 2% | 3.1 |
| PECO | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Restaurant | Water Heating | New | building | 1,239 | 6.5% | 0.07 | 9 | \$6.0 | 2% | 12.8 |
| PECO | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Restaurant | Water Heating | Early | water heater | 179,161 | 52% | 7.6 | 15 | \$37,332 | 32% | 1.6 |
| PECO | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Restaurant | Water Heating | New | water heater | 174,184 | 51% | 7.2 | 15 | \$37,332 | 32% | 1.5 |
| PECO | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Restaurant | Water Heating | ROB | water heater | 174,184 | 51% | 7.2 | 15 | \$37,332 | 32% | 1.5 |
| PECO | Ultrasonic Faucet Control | Manual Faucet Control | Restaurant | Water Heating | Existing | building | 1,239 | 3.0% | 0.03 | 10 | \$214 | 77% | 0.2 |
| PECO | Ultrasonic Faucet Control | Manual Faucet Control | Restaurant | Water Heating | New | building | 1,239 | 3.0% | 0.03 | 10 | \$214 | 77% | 0.2 |
| PECO | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Restaurant | Water Heating | Existing | building | 1,239 | 2.2% | 0.02 | 4 | \$28 | 83% | 0.5 |
| PECO | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Restaurant | Water Heating | New | building | 1,239 | 2.3% | 0.02 | 4 | \$28 | 83% | 0.5 |
| PECO | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Retail | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.2 |
| PECO | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Retail | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.2 |
| PECO | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Retail | Cooking | Early | steamer | 51 | 46% | 0.00 | 12 | \$5,053 | 81% | 0.0 |
| PECO | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Retail | Cooking | New | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| PECO | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Retail | Cooking | ROB | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| PECO | Electric combination oven (Energy Star) | Standard Oven | Retail | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 3.3 |
| PECO | Electric combination oven (Energy Star) | Standard Oven | Retail | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 3.3 |
| PECO | Electric Convection Oven | Conventional convection oven w/ 65% efficiency | Retail | Cooking | Early | oven | 8,641 | 37% | 0.6 | 12 | \$4,119 | 81% | 0.5 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|--|---|---------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Retail | Cooking | New | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.8 |
| PECO | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Retail | Cooking | ROB | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.8 |
| PECO | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Retail | Cooking | Early | fryer | 6,105 | 23% | 0.3 | 12 | \$9,241 | 86% | 0.1 |
| PECO | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Retail | Cooking | New | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.4 |
| PECO | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Retail | Cooking | ROB | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.4 |
| PECO | High Efficiency Griddle (ENERGY STAR) | Efficiency code minimum griddle (70% eff) | Retail | Cooking | Early | griddle | 11,317 | 65% | 1.4 | 12 | \$4,977 | 86% | 1.0 |
| PECO | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Retail | Cooking | New | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.3 |
| PECO | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Retail | Cooking | ROB | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.3 |
| PECO | High Efficiency Induction Cooking | Standard Cooking | Retail | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.2 |
| PECO | High Efficiency Induction Cooking | Standard Cooking | Retail | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.2 |
| PECO | Adding reflective roof treatment | Std color roof | Retail | Cooling Central | Existing | building | 3,790 | 7.0% | 0.07 | 6 | \$14,678 | 82% | 0.0 |
| PECO | Adding reflective roof treatment | Std color roof | Retail | Cooling Central | New | building | 3,790 | 7.0% | 0.07 | 6 | \$14,678 | 82% | 0.0 |
| PECO | Adding window shade film | No shade film | Retail | Cooling Central | Existing | building | 3,790 | 1.3% | 0.4 | 10 | \$46 | 13% | 6.8 |
| PECO | Adding window shade film | No shade film | Retail | Cooling Central | New | building | 3,790 | 1.3% | 0.4 | 10 | \$46 | 13% | 6.8 |
| PECO | Adding window shade screen | No shade screen | Retail | Cooling Central | Existing | building | 3,790 | 1.1% | 0.01 | 10 | \$18 | 13% | 1.4 |
| PECO | Adding window shade screen | No shade screen | Retail | Cooling Central | New | building | 3,790 | 1.0% | 0.01 | 10 | \$18 | 13% | 1.4 |
| PECO | Automated control system | Manual Controls | Retail | Cooling Central | Existing | building | 3,790 | 17% | 0.2 | 15 | \$4,149 | 51% | 0.1 |
| PECO | Automated control system | Manual Controls | Retail | Cooling Central | New | building | 3,790 | 17% | 0.2 | 15 | \$4,149 | 94% | 0.1 |
| PECO | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Retail | Cooling Central | Existing | building | 3,790 | 4.9% | 0.05 | 15 | \$19,662 | 71% | 0.0 |
| PECO | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Retail | Cooling Central | New | building | 3,790 | 1.6% | 0.02 | 15 | \$18,689 | 94% | 0.0 |
| PECO | Chiller Tuneup/Diagnostics | No tuneup | Retail | Cooling Central | Existing | building | 3,790 | 8.0% | 0.08 | 10 | \$9,678 | 59% | 0.0 |
| PECO | Chiller Tuneup/Diagnostics | No tuneup | Retail | Cooling Central | New | building | 3,790 | 8.0% | 0.08 | 10 | \$9,678 | 59% | 0.0 |
| PECO | Cooling Tower Optimization | No Cooling Tower Optimization | Retail | Cooling Central | Existing | building | 3,790 | 20% | 0.2 | 10 | \$23 | 69% | 19.7 |
| PECO | Duct Insulation, Add R8 | No Insulation | Retail | Cooling Central | Existing | building | 3,790 | 1.4% | 0.04 | 15 | \$30 | 20% | 2.4 |
| PECO | Duct Insulation, Add R8 | No Insulation | Retail | Cooling Central | New | building | 3,790 | 1.4% | 0.04 | 15 | \$30 | 10% | 2.4 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Retail | Cooling Central | Existing | building | 3,790 | 7.0% | 0.07 | 15 | \$16,813 | 25% | 0.0 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Retail | Cooling Central | New | building | 3,790 | 7.0% | 0.07 | 15 | \$16,813 | 35% | 0.0 |
| PECO | Hi Eff HVAC System Design | No HVAC Design | Retail | Cooling Central | New | building | 3,790 | 11% | 0.1 | 10 | \$180,569 | 51% | 0.0 |
| PECO | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Retail | Cooling Central | Early | ton | 8,778 | 24% | 0.5 | 15 | \$108,550 | 88% | 0.0 |
| PECO | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Retail | Cooling Central | New | ton | 7,176 | 6.7% | 0.1 | 15 | \$12,927 | 88% | 0.0 |
| PECO | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Retail | Cooling Central | ROB | ton | 7,176 | 6.7% | 0.1 | 15 | \$12,927 | 88% | 0.0 |
| PECO | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Retail | Cooling Central | Early | ton | 13,117 | 23% | 0.7 | 15 | \$140,105 | 88% | 0.0 |
| PECO | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Retail | Cooling Central | New | ton | 10,553 | 4.9% | 0.1 | 15 | \$9,336 | 88% | 0.0 |
| PECO | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Retail | Cooling Central | ROB | ton | 10,553 | 4.9% | 0.1 | 15 | \$9,336 | 88% | 0.0 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Retail | Cooling Central | Early | ton | 107,378 | 26% | 6.3 | 15 | \$105,354 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Retail | Cooling Central | New | ton | 93,557 | 15% | 3.1 | 15 | \$30,530 | 88% | 0.4 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Retail | Cooling Central | ROB | ton | 93,557 | 15% | 3.1 | 15 | \$30,530 | 88% | 0.4 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Retail | Cooling Central | Early | ton | 160,823 | 23% | 8.3 | 15 | \$154,107 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Retail | Cooling Central | New | ton | 147,736 | 16% | 5.3 | 15 | \$27,646 | 88% | 0.7 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Retail | Cooling Central | ROB | ton | 160,823 | 23% | 8.3 | 15 | \$27,646 | 88% | 1.1 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Retail | Cooling Central | Early | ton | 267,097 | 23% | 13.6 | 15 | \$302,924 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Retail | Cooling Central | New | ton | 241,742 | 14% | 7.9 | 15 | \$115,432 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Retail | Cooling Central | ROB | ton | 267,097 | 23% | 13.6 | 15 | \$115,432 | 88% | 0.4 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Retail | Cooling Central | Early | ton | 320,516 | 23% | 16.3 | 15 | \$350,154 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Retail | Cooling Central | New | ton | 290,090 | 14% | 9.5 | 15 | \$120,406 | 88% | 0.3 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Retail | Cooling Central | ROB | ton | 320,516 | 23% | 16.3 | 15 | \$120,406 | 88% | 0.5 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Retail | Cooling Central | Early | ton | 71,045 | 29% | 4.7 | 15 | \$83,632 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Retail | Cooling Central | New | ton | 55,166 | 8.9% | 1.1 | 15 | \$40,211 | 88% | 0.1 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Retail | Cooling Central | ROB | ton | 71,045 | 29% | 4.7 | 15 | \$40,211 | 88% | 0.4 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Retail | Cooling Central | Early | ton | 122,073 | 35% | 9.6 | 15 | \$132,173 | 88% | 0.3 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Retail | Cooling Central | New | ton | 91,046 | 13% | 2.6 | 15 | \$39,556 | 88% | 0.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|--|---|---------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Retail | Cooling Central | ROB | ton | 91,046 | 13% | 2.6 | 15 | \$39,556 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Retail | Cooling Central | Early | ton | 203,811 | 39% | 18.0 | 15 | \$187,029 | 88% | 0.3 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Retail | Cooling Central | New | ton | 145,314 | 15% | 4.8 | 15 | \$33,554 | 88% | 0.5 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Retail | Cooling Central | ROB | ton | 203,811 | 39% | 18.0 | 15 | \$33,554 | 88% | 1.9 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Retail | Cooling Central | Early | ton | 35,664 | 30% | 2.4 | 15 | \$32,398 | 88% | 0.3 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Retail | Cooling Central | New | ton | 28,256 | 11% | 0.7 | 15 | \$7,188 | 88% | 0.4 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Retail | Cooling Central | ROB | ton | 35,664 | 30% | 2.4 | 15 | \$7,188 | 88% | 1.2 |
| PECO | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Retail | Cooling Central | Existing | building | 3,790 | 2.3% | 0.02 | 10 | \$1,539 | 81% | 0.0 |
| PECO | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Retail | Cooling Central | New | building | 3,790 | 2.3% | 0.02 | 10 | \$1,539 | 81% | 0.0 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Retail | Cooling Central | Existing | building | 3,790 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.2 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Retail | Cooling Central | New | building | 3,790 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.3 |
| PECO | Re-Commissioning (Existing Construction) | No Re-Commissioning | Retail | Cooling Central | Existing | building | 3,790 | 16% | 0.2 | 5 | \$8,051 | 86% | 0.0 |
| PECO | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Retail | Cooling Central | Existing | building | 3,790 | 8.1% | 0.08 | 15 | \$5,499 | 26% | 0.0 |
| PECO | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Retail | Cooling Central | New | building | 3,790 | 0.3% | 0.00 | 15 | \$4,218 | 94% | 0.0 |
| PECO | <65k BTU/hr 14 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Retail | Cooling Unitary | Early | ton | 1,897 | 16% | 0.3 | 15 | \$1,545 | 29% | 0.3 |
| PECO | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Retail | Cooling Unitary | New | ton | 1,718 | 7.1% | 0.1 | 15 | \$339 | 29% | 0.6 |
| PECO | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Retail | Cooling Unitary | ROB | ton | 1,718 | 7.1% | 0.1 | 15 | \$339 | 29% | 0.6 |
| PECO | <65k BTU/hr 15 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Retail | Cooling Unitary | Early | ton | 1,897 | 22% | 0.4 | 15 | \$1,821 | 30% | 0.3 |
| PECO | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Retail | Cooling Unitary | New | ton | 1,718 | 13% | 0.2 | 15 | \$714 | 30% | 0.5 |
| PECO | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Retail | Cooling Unitary | ROB | ton | 1,718 | 13% | 0.2 | 15 | \$714 | 30% | 0.5 |
| PECO | <65k BTU/hr 16 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Retail | Cooling Unitary | Early | ton | 1,897 | 26% | 0.5 | 15 | \$2,098 | 31% | 0.4 |
| PECO | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Retail | Cooling Unitary | New | ton | 1,718 | 19% | 0.3 | 15 | \$1,089 | 31% | 0.5 |
| PECO | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Retail | Cooling Unitary | ROB | ton | 1,718 | 19% | 0.3 | 15 | \$1,089 | 31% | 0.5 |
| PECO | >760k min 10.2 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Retail | Cooling Unitary | Early | ton | 47,988 | 3.7% | 1.6 | 15 | \$68,066 | 56% | 0.0 |
| PECO | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Retail | Cooling Unitary | New | ton | 48,603 | 4.9% | 2.2 | 15 | \$6,231 | 56% | 0.6 |
| PECO | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Retail | Cooling Unitary | ROB | ton | 48,603 | 4.9% | 2.2 | 15 | \$6,231 | 56% | 0.6 |
| PECO | 135-240k min 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Retail | Cooling Unitary | Early | ton | 11,808 | 18% | 2.0 | 15 | \$18,135 | 79% | 0.2 |
| PECO | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Retail | Cooling Unitary | New | ton | 10,741 | 10.0% | 1.0 | 15 | \$1,948 | 79% | 0.8 |
| PECO | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Retail | Cooling Unitary | ROB | ton | 10,741 | 10.0% | 1.0 | 15 | \$1,948 | 79% | 0.8 |
| PECO | 240k-760k min 11 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Retail | Cooling Unitary | Early | ton | 31,571 | 9.0% | 2.6 | 15 | \$44,809 | 66% | 0.1 |
| PECO | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Retail | Cooling Unitary | New | ton | 31,650 | 9.3% | 2.7 | 15 | \$4,813 | 66% | 0.9 |
| PECO | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Retail | Cooling Unitary | ROB | ton | 31,650 | 9.3% | 2.7 | 15 | \$4,813 | 66% | 0.9 |
| PECO | 65k-135k BTU/hr 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Retail | Cooling Unitary | Early | ton | 6,960 | 17% | 1.1 | 15 | \$10,946 | 86% | 0.2 |
| PECO | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Retail | Cooling Unitary | New | ton | 6,203 | 6.7% | 0.4 | 15 | \$1,392 | 86% | 0.5 |
| PECO | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Retail | Cooling Unitary | ROB | ton | 6,203 | 6.7% | 0.4 | 15 | \$1,392 | 86% | 0.5 |
| PECO | Adding reflective roof treatment | Std color roof | Retail | Cooling Unitary | Existing | building | 35,166 | 7.0% | 0.07 | 6 | \$14,678 | 82% | 0.0 |
| PECO | Adding reflective roof treatment | Std color roof | Retail | Cooling Unitary | New | building | 35,166 | 7.1% | 0.07 | 6 | \$14,678 | 82% | 0.0 |
| PECO | Adding window shade film | No shade film | Retail | Cooling Unitary | Existing | building | 35,166 | 1.3% | 0.4 | 10 | \$428 | 12% | 1.1 |
| PECO | Adding window shade film | No shade film | Retail | Cooling Unitary | New | building | 35,166 | 1.3% | 0.4 | 10 | \$428 | 13% | 1.1 |
| PECO | Adding window shade screen | No shade screen | Retail | Cooling Unitary | Existing | building | 35,166 | 1.1% | 0.01 | 10 | \$166 | 12% | 1.0 |
| PECO | Adding window shade screen | No shade screen | Retail | Cooling Unitary | New | building | 35,166 | 1.1% | 0.01 | 10 | \$166 | 13% | 1.0 |
| PECO | Automated control system | Manual Controls | Retail | Cooling Unitary | Existing | building | 35,166 | 17% | 0.2 | 15 | \$38,498 | 51% | 0.1 |
| PECO | Automated control system | Manual Controls | Retail | Cooling Unitary | New | building | 35,166 | 17% | 0.2 | 15 | \$38,498 | 94% | 0.1 |
| PECO | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Retail | Cooling Unitary | Existing | building | 35,166 | 4.9% | 0.05 | 15 | \$19,662 | 71% | 0.1 |
| PECO | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Retail | Cooling Unitary | New | building | 35,166 | 1.6% | 0.02 | 15 | \$18,689 | 94% | 0.0 |
| PECO | Duct Insulation, Add R8 | No Insulation | Retail | Cooling Unitary | Existing | building | 35,166 | 1.4% | 0.04 | 15 | \$279 | 20% | 1.1 |
| PECO | Duct Insulation, Add R8 | No Insulation | Retail | Cooling Unitary | New | building | 35,166 | 1.4% | 0.04 | 15 | \$279 | 10% | 1.1 |
| PECO | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Retail | Cooling Unitary | Existing | building | 19,217 | 13% | 0.1 | 1 | \$184 | 73% | 0.7 |
| PECO | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Retail | Cooling Unitary | New | building | 19,217 | 13% | 0.1 | 1 | \$184 | 73% | 0.7 |
| PECO | ECM Motors for split systems | Std Shaded Pole Motor | Retail | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 3.2 |
| PECO | ECM Motors for split systems | Std Shaded Pole Motor | Retail | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 3.2 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Retail | Cooling Unitary | Existing | building | 35,166 | 7.1% | 0.07 | 15 | \$155,987 | 25% | 0.0 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Retail | Cooling Unitary | New | building | 35,166 | 7.0% | 0.07 | 15 | \$155,987 | 35% | 0.0 |
| PECO | Hi Eff HVAC System Design | No HVAC Design | Retail | Cooling Unitary | New | building | 35,166 | 11% | 0.1 | 10 | \$15,735 | 51% | 0.1 |
| PECO | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Retail | Cooling Unitary | Existing | building | 35,166 | 5.0% | 0.05 | 5 | \$225 | 59% | 1.8 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|--|--|---------|-----------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Retail | Cooling Unitary | Existing | building | 35,166 | 2.3% | 0.02 | 10 | \$1,654 | 86% | 0.2 |
| PECO | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Retail | Cooling Unitary | New | building | 35,166 | 2.3% | 0.02 | 10 | \$1,654 | 86% | 0.2 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) | Retail | Cooling Unitary | Existing | building | 35,166 | 2.0% | 0.02 | 11 | \$286 | 49% | 1.2 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Retail | Cooling Unitary | New | building | 35,166 | 1.7% | 0.02 | 11 | \$146 | 49% | 1.9 |
| PECO | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Retail | Cooling Unitary | Early | unit | 3,310 | 19% | 0.1 | 15 | \$849 | 85% | 0.6 |
| PECO | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Retail | Cooling Unitary | New | unit | 3,344 | 20% | 0.2 | 15 | \$356 | 85% | 1.5 |
| PECO | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Retail | Cooling Unitary | ROB | unit | 3,344 | 20% | 0.2 | 15 | \$356 | 85% | 1.5 |
| PECO | Re-Commissioning (Existing Construction) | No Re-Commissioning | Retail | Cooling Unitary | Existing | building | 35,166 | 16% | 0.2 | 5 | \$8,051 | 86% | 0.2 |
| PECO | Room AC (w/ louvered sides) | Existing efficiency Room AC in Pennsylvania (2000 Federal Standards) | Retail | Cooling Unitary | Early | ton | 1,315 | 13% | 0.04 | 9 | \$348 | 82% | 0.3 |
| PECO | Room AC (w/ louvered sides) | Std Room AC (Code Min. Federal Standards) | Retail | Cooling Unitary | New | ton | 1,192 | 4.5% | 0.01 | 9 | \$17 | 82% | 1.7 |
| PECO | Room AC (w/ louvered sides) | Std Room AC (Code Min. Federal Standards) | Retail | Cooling Unitary | ROB | ton | 1,192 | 4.5% | 0.01 | 9 | \$17 | 82% | 1.7 |
| PECO | Wall Insualtions (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Retail | Cooling Unitary | Existing | building | 35,166 | 8.1% | 0.08 | 15 | \$5,499 | 26% | 0.3 |
| PECO | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Retail | Cooling Unitary | New | building | 35,166 | 0.3% | 0.00 | 15 | \$4,218 | 94% | 0.0 |
| PECO | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Retail | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 1.1 |
| PECO | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Retail | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.4 |
| PECO | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Retail | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.4 |
| PECO | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Retail | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 0% | 0.2 |
| PECO | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Retail | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| PECO | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Retail | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| PECO | LED exterior lighting | 250 Watt Incandescent | Retail | Ext. Lighting | ROB | measure | 475 | 83% | 0.1 | 15 | \$104 | 89% | 2.9 |
| PECO | LED exterior lighting | 250 Watt Incandescent | Retail | Ext. Lighting | ROB | measure | 431 | 83% | 0.1 | 15 | \$104 | 89% | 2.7 |
| PECO | LED exterior lighting | 250 Watt Incandescent | Retail | Ext. Lighting | ROB | measure | 431 | 83% | 0.1 | 15 | \$104 | 89% | 2.7 |
| PECO | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Retail | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 75% | 0.3 |
| PECO | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Retail | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 75% | 0.2 |
| PECO | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Retail | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.6 |
| PECO | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Retail | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.0 |
| PECO | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Retail | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.6 |
| PECO | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Retail | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.0 |
| PECO | Photocell Controls (Outdoor) | Lighting w/ No Controls | Retail | Ext. Lighting | Existing | building | 87 | 28% | 0.3 | 8 | \$1,459 | 88% | 0.1 |
| PECO | Photocell Controls (Outdoor) | Lighting w/ No Controls | Retail | Ext. Lighting | New | building | 87 | 28% | 0.3 | 8 | \$1,459 | 0% | 0.1 |
| PECO | Adding reflective roof treatment | Std color roof | Retail | Heat Pump | Existing | building | 3,577 | 6.9% | 0.07 | 6 | \$14,678 | 82% | 0.0 |
| PECO | Adding reflective roof treatment | Std color roof | Retail | Heat Pump | New | building | 3,577 | 6.9% | 0.07 | 6 | \$14,678 | 82% | 0.0 |
| PECO | Adding window shade film | No shade film | Retail | Heat Pump | Existing | building | 3,577 | 3.9% | 0.4 | 10 | \$44 | 12% | 8.0 |
| PECO | Adding window shade film | No shade film | Retail | Heat Pump | New | building | 3,577 | 3.9% | 0.4 | 10 | \$44 | 12% | 8.0 |
| PECO | Adding window shade screen | No shade screen | Retail | Heat Pump | Existing | building | 3,577 | 0.3% | 0.01 | 10 | \$5.6 | 12% | 2.3 |
| PECO | Adding window shade screen | No shade screen | Retail | Heat Pump | New | building | 3,577 | 0.3% | 0.01 | 10 | \$5.6 | 12% | 2.3 |
| PECO | Automated control system | Manual Controls | Retail | Heat Pump | Existing | building | 3,577 | 17% | 0.2 | 15 | \$3,916 | 51% | 0.1 |
| PECO | Automated control system | Manual Controls | Retail | Heat Pump | New | building | 3,577 | 17% | 0.2 | 15 | \$3,916 | 94% | 0.1 |
| PECO | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Retail | Heat Pump | Existing | building | 3,577 | 4.9% | 0.05 | 15 | \$19,662 | 71% | 0.0 |
| PECO | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Retail | Heat Pump | New | building | 3,577 | 1.6% | 0.02 | 15 | \$18,689 | 94% | 0.0 |
| PECO | Duct Insulation, Add R8 | No Insulation | Retail | Heat Pump | Existing | building | 3,577 | 4.0% | 0.04 | 15 | \$28 | 12% | 4.3 |
| PECO | Duct Insulation, Add R8 | No Insulation | Retail | Heat Pump | New | building | 3,577 | 4.0% | 0.04 | 15 | \$28 | 6% | 4.3 |
| PECO | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Retail | Heat Pump | Early | heat pump | 1,737 | 14% | 0.05 | 15 | \$4,070 | 83% | 0.0 |
| PECO | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Retail | Heat Pump | New | heat pump | 1,624 | 7.6% | 0.03 | 15 | \$1,097 | 83% | 0.1 |
| PECO | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Retail | Heat Pump | ROB | heat pump | 1,624 | 7.6% | 0.03 | 15 | \$1,097 | 83% | 0.1 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Retail | Heat Pump | Existing | building | 3,577 | 7.0% | 0.07 | 15 | \$15,866 | 25% | 0.0 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Retail | Heat Pump | New | building | 3,577 | 7.0% | 0.07 | 15 | \$15,866 | 35% | 0.0 |
| PECO | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Retail | Heat Pump | Early | heat pump | 18,500 | 20% | 0.9 | 15 | \$91,117 | 19% | 0.0 |
| PECO | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Retail | Heat Pump | New | heat pump | 17,550 | 16% | 0.6 | 15 | \$33,927 | 19% | 0.1 |
| PECO | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Retail | Heat Pump | ROB | heat pump | 17,550 | 16% | 0.6 | 15 | \$33,927 | 19% | 0.1 |
| PECO | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Retail | Heat Pump | Early | heat pump | 18,500 | 20% | 0.9 | 15 | \$58,356 | 19% | 0.1 |
| PECO | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Retail | Heat Pump | New | heat pump | 17,550 | 16% | 0.6 | 15 | \$1,167 | 19% | 2.0 |
| PECO | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Retail | Heat Pump | ROB | heat pump | 17,550 | 16% | 0.6 | 15 | \$1,167 | 19% | 2.0 |
| PECO | Hi Eff HVAC System Design | No HVAC Design | Retail | Heat Pump | New | building | 3,577 | 11% | 0.1 | 10 | \$180,569 | 51% | 0.0 |
| PECO | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Retail | Heat Pump | Early | heat pump | 4,633 | 18% | 0.2 | 12 | \$4,298 | 81% | 0.1 |
| PECO | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Retail | Heat Pump | Early | heat pump | 4,633 | 24% | 0.2 | 12 | \$5,883 | 81% | 0.1 |
| PECO | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Retail | Heat Pump | New | heat pump | 4,332 | 13% | 0.1 | 12 | \$852 | 81% | 0.4 |
| PECO | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Retail | Heat Pump | New | heat pump | 4,332 | 19% | 0.2 | 12 | \$2,437 | 81% | 0.2 |
| PECO | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Retail | Heat Pump | ROB | heat pump | 4,332 | 13% | 0.1 | 12 | \$852 | 81% | 0.4 |
| PECO | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Retail | Heat Pump | ROB | heat pump | 4,332 | 19% | 0.2 | 12 | \$2,437 | 81% | 0.2 |
| PECO | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Retail | Heat Pump | Existing | building | 3,577 | 2.3% | 0.02 | 10 | \$1,473 | 81% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|--|--|---------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Retail | Heat Pump | New | building | 3,577 | 2.3% | 0.02 | 10 | \$1,473 | 81% | 0.0 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Retail | Heat Pump | Existing | building | 3,577 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.2 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Retail | Heat Pump | New | building | 3,577 | 2.1% | 0.02 | 11 | \$146 | 49% | 0.4 |
| PECO | Re-Commissioning (Existing Construction) | No Re-Commissioning | Retail | Heat Pump | Existing | building | 3,577 | 16% | 0.2 | 5 | \$8,051 | 86% | 0.0 |
| PECO | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Retail | Heat Pump | New | measure | 679,680 | 2.0% | 1.6 | 13 | \$85,564 | 43% | 0.1 |
| PECO | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Retail | Heat Pump | ROB | measure | 679,680 | 2.0% | 1.6 | 13 | \$85,564 | 43% | 0.1 |
| PECO | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Retail | Heat Pump | Existing | building | 3,577 | 8.1% | 0.08 | 15 | \$5,499 | 26% | 0.0 |
| PECO | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Retail | Heat Pump | New | building | 3,577 | 0.3% | 0.00 | 15 | \$4,218 | 94% | 0.0 |
| PECO | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Retail | Heat Pump | Early | heat pump | 7,134 | 29% | 0.5 | 15 | \$35,347 | 28% | 0.0 |
| PECO | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Retail | Heat Pump | New | heat pump | 6,594 | 23% | 0.3 | 15 | \$15,739 | 28% | 0.1 |
| PECO | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Retail | Heat Pump | ROB | heat pump | 6,594 | 23% | 0.3 | 15 | \$15,739 | 28% | 0.1 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Retail | High Bay Lighting | Early | Fixture | 614 | 9.6% | 0.02 | 13 | \$850 | 39% | 0.1 |
| PECO | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Retail | High Bay Lighting | Early | Fixture | 613 | 9.5% | 0.02 | 13 | \$850 | 28% | 0.1 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Retail | High Bay Lighting | Early | Fixture | 947 | 41% | 0.1 | 13 | \$850 | 36% | 0.4 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Retail | High Bay Lighting | New | Fixture | 466 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Retail | High Bay Lighting | New | Fixture | 434 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Retail | High Bay Lighting | New | Fixture | 720 | 41% | 0.08 | 13 | \$397 | 36% | 0.6 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Retail | High Bay Lighting | ROB | Fixture | 614 | 9.6% | 0.02 | 13 | \$372 | 39% | 0.1 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Retail | High Bay Lighting | ROB | Fixture | 571 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Retail | High Bay Lighting | ROB | Fixture | 947 | 41% | 0.1 | 13 | \$397 | 36% | 0.8 |
| PECO | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Retail | High Bay Lighting | Early | Fixture | 1,192 | 19% | 0.06 | 13 | \$851 | 38% | 0.2 |
| PECO | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Retail | High Bay Lighting | Early | Fixture | 1,207 | 20% | 0.07 | 13 | \$851 | 38% | 0.2 |
| PECO | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | Early | Fixture | 3,510 | 73% | 0.7 | 13 | \$851 | 38% | 2.3 |
| PECO | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Retail | High Bay Lighting | New | Fixture | 906 | 19% | 0.05 | 13 | \$372 | 38% | 0.4 |
| PECO | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | New | Fixture | 2,667 | 73% | 0.5 | 13 | \$383 | 38% | 3.8 |
| PECO | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Retail | High Bay Lighting | ROB | Fixture | 1,192 | 19% | 0.06 | 13 | \$372 | 38% | 0.5 |
| PECO | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | ROB | Fixture | 3,510 | 73% | 0.7 | 13 | \$383 | 38% | 5.1 |
| PECO | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Retail | High Bay Lighting | Early | Fixture | 1,192 | 25% | 0.08 | 13 | \$554 | 29% | 0.4 |
| PECO | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Retail | High Bay Lighting | Early | Fixture | 1,170 | 23% | 0.07 | 13 | \$554 | 28% | 0.4 |
| PECO | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | Early | Fixture | 3,510 | 74% | 0.7 | 13 | \$554 | 36% | 3.6 |
| PECO | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Retail | High Bay Lighting | New | Fixture | 906 | 25% | 0.06 | 13 | \$75 | 29% | 2.3 |
| PECO | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | New | Fixture | 2,667 | 74% | 0.5 | 13 | \$86 | 36% | 17.6 |
| PECO | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Retail | High Bay Lighting | ROB | Fixture | 1,192 | 25% | 0.08 | 13 | \$75 | 29% | 3.0 |
| PECO | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | ROB | Fixture | 3,510 | 74% | 0.7 | 13 | \$86 | 36% | 23.2 |
| PECO | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Retail | High Bay Lighting | Early | Fixture | 311 | 0.2% | 0.00 | 13 | \$835 | 38% | 0.0 |
| PECO | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Retail | High Bay Lighting | Early | Fixture | 669 | 54% | 0.10 | 13 | \$835 | 38% | 0.3 |
| PECO | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Retail | High Bay Lighting | New | Fixture | 509 | 54% | 0.07 | 13 | \$382 | 38% | 0.5 |
| PECO | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Retail | High Bay Lighting | ROB | Fixture | 669 | 54% | 0.10 | 13 | \$382 | 38% | 0.7 |
| PECO | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Retail | High Bay Lighting | Early | Fixture | 1,518 | 18% | 0.08 | 13 | \$487 | 25% | 0.4 |
| PECO | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Retail | High Bay Lighting | Early | Fixture | 1,587 | 22% | 0.09 | 13 | \$487 | 28% | 0.5 |
| PECO | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | Early | Fixture | 3,510 | 65% | 0.6 | 13 | \$487 | 36% | 3.5 |
| PECO | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Retail | High Bay Lighting | New | Fixture | 1,154 | 18% | 0.06 | 13 | \$16 | 25% | 9.8 |
| PECO | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | New | Fixture | 2,667 | 65% | 0.5 | 13 | \$18 | 36% | 71.3 |
| PECO | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Retail | High Bay Lighting | ROB | Fixture | 1,518 | 18% | 0.08 | 13 | \$16 | 25% | 13.0 |
| PECO | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | ROB | Fixture | 3,510 | 65% | 0.6 | 13 | \$18 | 36% | 93.7 |
| PECO | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Retail | High Bay Lighting | Early | Fixture | 1,518 | 1.5% | 0.01 | 13 | \$557 | 19% | 0.0 |
| PECO | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Retail | High Bay Lighting | Early | Fixture | 1,563 | 4.3% | 0.02 | 13 | \$557 | 19% | 0.1 |
| PECO | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | Early | Fixture | 3,510 | 57% | 0.5 | 13 | \$557 | 19% | 2.8 |
| PECO | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Retail | High Bay Lighting | New | Fixture | 1,154 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.2 |
| PECO | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | New | Fixture | 2,667 | 57% | 0.4 | 13 | \$88 | 19% | 13.2 |
| PECO | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Retail | High Bay Lighting | ROB | Fixture | 1,518 | 1.5% | 0.01 | 13 | \$86 | 19% | 0.2 |
| PECO | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | ROB | Fixture | 3,510 | 57% | 0.5 | 13 | \$88 | 19% | 17.4 |
| PECO | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Retail | High Bay Lighting | Early | Fixture | 645 | 29% | 0.04 | 13 | \$492 | 71% | 0.3 |
| PECO | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Retail | High Bay Lighting | Early | Fixture | 539 | 15% | 0.02 | 13 | \$492 | 95% | 0.1 |
| PECO | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Retail | High Bay Lighting | Early | Fixture | 801 | 43% | 0.07 | 13 | \$492 | 95% | 0.5 |
| PECO | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Retail | High Bay Lighting | Early | Fixture | 742 | 38% | 0.05 | 13 | \$492 | 95% | 0.4 |
| PECO | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Retail | High Bay Lighting | New | Fixture | 410 | 15% | 0.01 | 13 | \$25 | 95% | 1.7 |
| PECO | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Retail | High Bay Lighting | New | Fixture | 609 | 43% | 0.05 | 13 | \$51 | 95% | 3.5 |
| PECO | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Retail | High Bay Lighting | ROB | Fixture | 539 | 15% | 0.02 | 13 | \$25 | 95% | 2.2 |
| PECO | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Retail | High Bay Lighting | ROB | Fixture | 801 | 43% | 0.07 | 13 | \$51 | 95% | 4.6 |
| PECO | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Retail | High Bay Lighting | Early | lamp | 94 | 16% | 0.00 | 11 | \$7.7 | 99% | 1.3 |
| PECO | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Retail | High Bay Lighting | New | lamp | 56 | 13% | 0.00 | 11 | \$1.6 | 91% | 2.9 |
| PECO | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Retail | High Bay Lighting | ROB | lamp | 91 | 13% | 0.00 | 11 | \$1.6 | 91% | 4.6 |
| PECO | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Retail | High Bay Lighting | Early | Fixture | 3,591 | 23% | 0.2 | 13 | \$613 | 5% | 1.0 |
| PECO | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Retail | High Bay Lighting | Early | Fixture | 2,821 | 1.6% | 0.01 | 13 | \$613 | 28% | 0.1 |
| PECO | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | Early | Fixture | 7,019 | 60% | 1.1 | 13 | \$613 | 18% | 5.3 |
| PECO | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Retail | High Bay Lighting | New | Fixture | 2,729 | 23% | 0.2 | 13 | \$96 | 5% | 4.9 |
| PECO | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Retail | High Bay Lighting | ROB | Fixture | 3,591 | 23% | 0.2 | 13 | \$96 | 5% | 6.4 |
| PECO | Auto Off Time Switch | Lighting w/ No Controls | Retail | High Bay Lighting | Existing | building | 5,979 | 24% | 0.2 | 8 | \$296 | 13% | 2.2 |
| PECO | Auto Off Time Switch | Lighting w/ No Controls | Retail | High Bay Lighting | New | building | 5,979 | 6.9% | 0.07 | 8 | \$296 | 0% | 0.6 |
| PECO | Central Lighting Control System | Lighting w/ No Controls | Retail | High Bay Lighting | Existing | building | 5,979 | 38% | 0.4 | 8 | \$296 | 13% | 3.4 |
| PECO | Central Lighting Control System | Lighting w/ No Controls | Retail | High Bay Lighting | New | building | 5,979 | 14% | 0.1 | 8 | \$296 | 13% | 1.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---|--|---------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Retail | High Bay Lighting | New | building | 5,979 | 10% | 0.1 | 15 | \$29,254 | 32% | 0.0 |
| PECO | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Retail | High Bay Lighting | New | building | 5,979 | 15% | 0.2 | 15 | \$73,134 | 32% | 0.0 |
| PECO | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Retail | High Bay Lighting | New | building | 5,979 | 30% | 0.3 | 15 | \$104,825 | 32% | 0.0 |
| PECO | Indoor Daylight Sensors | Lighting w/ No Controls | Retail | High Bay Lighting | Existing | building | 5,979 | 28% | 0.3 | 8 | \$1,459 | 13% | 0.5 |
| PECO | Indoor Daylight Sensors | Lighting w/ No Controls | Retail | High Bay Lighting | New | building | 5,979 | 4.0% | 0.04 | 8 | \$1,459 | 0% | 0.1 |
| PECO | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Retail | High Bay Lighting | Early | Fixture | 3,591 | 92% | 0.9 | 13 | \$1,916 | 95% | 1.3 |
| PECO | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | Early | Fixture | 7,019 | 96% | 1.8 | 13 | \$1,916 | 95% | 2.7 |
| PECO | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Retail | High Bay Lighting | New | Fixture | 2,729 | 92% | 0.7 | 13 | \$1,468 | 95% | 1.3 |
| PECO | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | New | Fixture | 5,335 | 96% | 1.4 | 13 | \$1,149 | 95% | 3.4 |
| PECO | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Retail | High Bay Lighting | ROB | Fixture | 3,591 | 92% | 0.9 | 13 | \$1,468 | 95% | 1.7 |
| PECO | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | ROB | Fixture | 7,019 | 96% | 1.8 | 13 | \$1,149 | 95% | 4.5 |
| PECO | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Retail | High Bay Lighting | Early | Fixture | 1,192 | 67% | 0.2 | 13 | \$960 | 95% | 0.6 |
| PECO | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Retail | High Bay Lighting | Early | Fixture | 3,510 | 89% | 0.8 | 13 | \$960 | 95% | 2.5 |
| PECO | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Retail | High Bay Lighting | Early | Fixture | 963 | 59% | 0.2 | 13 | \$960 | 95% | 0.4 |
| PECO | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Retail | High Bay Lighting | New | Fixture | 906 | 67% | 0.2 | 13 | \$480 | 95% | 1.0 |
| PECO | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Retail | High Bay Lighting | New | Fixture | 2,667 | 89% | 0.6 | 13 | \$491 | 95% | 3.7 |
| PECO | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Retail | High Bay Lighting | New | Fixture | 732 | 59% | 0.1 | 13 | \$406 | 95% | 0.8 |
| PECO | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Retail | High Bay Lighting | ROB | Fixture | 1,192 | 67% | 0.2 | 13 | \$480 | 95% | 1.3 |
| PECO | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Retail | High Bay Lighting | ROB | Fixture | 3,510 | 89% | 0.8 | 13 | \$491 | 95% | 4.8 |
| PECO | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Retail | High Bay Lighting | ROB | Fixture | 963 | 59% | 0.2 | 13 | \$406 | 95% | 1.1 |
| PECO | Occupancy Sensor | Lighting w/ No Controls | Retail | High Bay Lighting | Existing | building | 5,979 | 24% | 0.2 | 8 | \$447 | 12% | 1.4 |
| PECO | Occupancy Sensor | Lighting w/ No Controls | Retail | High Bay Lighting | New | building | 5,979 | 6.9% | 0.07 | 8 | \$447 | 0% | 0.4 |
| PECO | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Retail | High Bay Lighting | Existing | building | 5,979 | 28% | 0.3 | 8 | \$1,459 | 12% | 0.5 |
| PECO | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Retail | High Bay Lighting | New | building | 5,979 | 4.0% | 0.04 | 8 | \$1,459 | 0% | 0.1 |
| PECO | Time Clock Control | Lighting w/ No Controls | Retail | High Bay Lighting | Existing | building | 5,979 | 28% | 0.3 | 8 | \$296 | 13% | 2.5 |
| PECO | Time Clock Control | Lighting w/ No Controls | Retail | High Bay Lighting | New | building | 5,979 | 4.0% | 0.04 | 8 | \$296 | 0% | 0.4 |
| PECO | Auto Off Time Switch | Lighting w/ No Controls | Retail | Lin. Fluor. Lighting | Existing | building | 11,963 | 24% | 0.2 | 8 | \$296 | 13% | 3.8 |
| PECO | Auto Off Time Switch | Lighting w/ No Controls | Retail | Lin. Fluor. Lighting | New | building | 11,963 | 7.0% | 0.07 | 8 | \$296 | 0% | 1.1 |
| PECO | Central Lighting Control System | Lighting w/ No Controls | Retail | Lin. Fluor. Lighting | Existing | building | 11,963 | 38% | 0.4 | 8 | \$296 | 12% | 6.0 |
| PECO | Central Lighting Control System | Lighting w/ No Controls | Retail | Lin. Fluor. Lighting | New | building | 11,963 | 14% | 0.1 | 8 | \$296 | 12% | 2.2 |
| PECO | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Retail | Lin. Fluor. Lighting | New | building | 11,963 | 10% | 0.1 | 15 | \$29,254 | 32% | 0.0 |
| PECO | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Retail | Lin. Fluor. Lighting | New | building | 11,963 | 15% | 0.2 | 15 | \$73,134 | 32% | 0.0 |
| PECO | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Retail | Lin. Fluor. Lighting | New | building | 11,963 | 30% | 0.3 | 15 | \$104,825 | 32% | 0.0 |
| PECO | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Retail | Lin. Fluor. Lighting | Early | Lamp | 190 | 38% | 0.02 | 11 | \$7.3 | 94% | 6.1 |
| PECO | Indoor Daylight Sensors | Lighting w/ No Controls | Retail | Lin. Fluor. Lighting | Existing | building | 11,963 | 28% | 0.3 | 8 | \$1,459 | 13% | 0.9 |
| PECO | Indoor Daylight Sensors | Lighting w/ No Controls | Retail | Lin. Fluor. Lighting | New | building | 11,963 | 4.1% | 0.04 | 8 | \$1,459 | 0% | 0.1 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Retail | Lin. Fluor. Lighting | Early | Lamp | 72 | 19% | 0.00 | 15 | \$35 | 94% | 0.3 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 40W T12 Lamp, Magnetic Ballast | Retail | Lin. Fluor. Lighting | Early | Lamp | 158 | 63% | 0.03 | 15 | \$35 | 94% | 2.4 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Retail | Lin. Fluor. Lighting | Early | Lamp | 89 | 34% | 0.01 | 15 | \$35 | 94% | 0.7 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Retail | Lin. Fluor. Lighting | Early | Lamp | 86 | 32% | 0.01 | 15 | \$35 | 94% | 0.7 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Retail | Lin. Fluor. Lighting | New | Lamp | 55 | 19% | 0.00 | 15 | \$28 | 94% | 0.3 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Retail | Lin. Fluor. Lighting | New | Lamp | 65 | 32% | 0.01 | 15 | \$29 | 94% | 0.6 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Retail | Lin. Fluor. Lighting | New | Lamp | 67 | 34% | 0.01 | 15 | \$22 | 94% | 0.9 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Retail | Lin. Fluor. Lighting | New | Lamp | 65 | 32% | 0.01 | 15 | \$29 | 94% | 0.6 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Retail | Lin. Fluor. Lighting | ROB | Lamp | 72 | 19% | 0.00 | 15 | \$28 | 94% | 0.4 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Retail | Lin. Fluor. Lighting | ROB | Lamp | 86 | 32% | 0.01 | 15 | \$29 | 94% | 0.8 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Retail | Lin. Fluor. Lighting | ROB | Lamp | 89 | 34% | 0.01 | 15 | \$22 | 94% | 1.2 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Retail | Lin. Fluor. Lighting | ROB | Lamp | 86 | 32% | 0.01 | 15 | \$29 | 94% | 0.8 |
| PECO | Occupancy Sensor | Lighting w/ No Controls | Retail | Lin. Fluor. Lighting | Existing | building | 11,963 | 24% | 0.2 | 8 | \$447 | 13% | 2.5 |
| PECO | Occupancy Sensor | Lighting w/ No Controls | Retail | Lin. Fluor. Lighting | New | building | 11,963 | 6.9% | 0.07 | 8 | \$447 | 0% | 0.7 |
| PECO | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Retail | Lin. Fluor. Lighting | Existing | building | 11,963 | 28% | 0.3 | 8 | \$1,459 | 12% | 0.9 |
| PECO | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Retail | Lin. Fluor. Lighting | New | building | 11,963 | 4.1% | 0.04 | 8 | \$1,459 | 0% | 0.1 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 40W T12 w/ Magnetic Ballast | Retail | Lin. Fluor. Lighting | Early | Lamp | 190 | 54% | 0.02 | 11 | \$9.1 | 94% | 7.0 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Retail | Lin. Fluor. Lighting | Early | Lamp | 121 | 28% | 0.01 | 11 | \$9.1 | 24% | 2.3 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Retail | Lin. Fluor. Lighting | Early | Lamp | 118 | 26% | 0.01 | 11 | \$9.1 | 94% | 2.1 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Retail | Lin. Fluor. Lighting | New | Lamp | 89 | 26% | 0.00 | 11 | \$2.5 | 94% | 5.7 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Retail | Lin. Fluor. Lighting | New | Lamp | 89 | 26% | 0.00 | 11 | \$2.5 | 94% | 5.7 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Retail | Lin. Fluor. Lighting | New | Lamp | 92 | 28% | 0.01 | 11 | \$2.5 | 24% | 6.4 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Retail | Lin. Fluor. Lighting | New | Lamp | 89 | 26% | 0.00 | 11 | \$2.5 | 94% | 5.7 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Retail | Lin. Fluor. Lighting | ROB | Lamp | 118 | 26% | 0.01 | 11 | \$2.5 | 94% | 7.5 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Retail | Lin. Fluor. Lighting | ROB | Lamp | 118 | 26% | 0.01 | 11 | \$2.5 | 94% | 7.5 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---|--|---------|---------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Retail | Motors | New | motor | 41,438 | 72% | 3.3 | 15 | \$731 | 86% | 27.1 |
| PECO | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Retail | Motors | ROB | motor | 41,438 | 72% | 3.3 | 15 | \$731 | 86% | 27.1 |
| PECO | Variable Speed Drive Control, 40HP | Existing Motors w/out VSD Drive | Retail | Motors | Early | motor | 110,503 | 71% | 8.6 | 15 | \$4,666 | 86% | 11.2 |
| PECO | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Retail | Motors | New | motor | 109,211 | 72% | 8.6 | 15 | \$4,666 | 86% | 11.2 |
| PECO | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Retail | Motors | ROB | motor | 109,211 | 72% | 8.6 | 15 | \$4,666 | 86% | 11.2 |
| PECO | Variable Speed Drive Control, 5HP | Existing Motors w/out VFD Drive | Retail | Motors | Early | motor | 14,681 | 70% | 1.1 | 15 | \$2,243 | 86% | 3.1 |
| PECO | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Retail | Motors | New | motor | 14,353 | 72% | 1.1 | 15 | \$2,243 | 86% | 3.1 |
| PECO | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Retail | Motors | ROB | motor | 14,353 | 72% | 1.1 | 15 | \$2,243 | 86% | 3.1 |
| PECO | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Retail | Motors | Early | motor | 3,501 | 32% | 0.1 | 15 | \$268 | 13% | 2.9 |
| PECO | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Retail | Motors | New | motor | 3,501 | 32% | 0.1 | 15 | \$268 | 13% | 2.9 |
| PECO | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Retail | Motors | ROB | motor | 3,501 | 32% | 0.1 | 15 | \$268 | 13% | 2.9 |
| PECO | VFD on Chilled Water Pump | Motor w/out VFD Drive | Retail | Motors | Early | motor | 29,658 | 54% | 2.7 | 15 | \$2,903 | 86% | 4.0 |
| PECO | VFD on Chilled Water Pump | Motor w/out VFD Drive | Retail | Motors | New | motor | 29,103 | 55% | 2.7 | 15 | \$2,843 | 86% | 4.1 |
| PECO | VFD on Chilled Water Pump | Motor w/out VFD Drive | Retail | Motors | ROB | motor | 29,103 | 55% | 2.7 | 15 | \$2,843 | 86% | 4.1 |
| PECO | VFD on Condenser Water Pump | Motor w/out VFD Drive | Retail | Motors | Early | motor | 29,290 | 32% | 3.2 | 15 | \$2,903 | 86% | 3.0 |
| PECO | VFD on Condenser Water Pump | Motor w/out VFD Drive | Retail | Motors | New | motor | 28,742 | 33% | 3.1 | 15 | \$2,843 | 86% | 3.0 |
| PECO | VFD on Condenser Water Pump | Motor w/out VFD Drive | Retail | Motors | ROB | motor | 28,742 | 33% | 3.1 | 15 | \$2,843 | 86% | 3.0 |
| PECO | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Retail | Motors | Early | motor | 22,053 | 56% | 0.00 | 15 | \$2,903 | 86% | 2.3 |
| PECO | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Retail | Motors | New | motor | 21,640 | 57% | 0.00 | 15 | \$2,843 | 86% | 2.4 |
| PECO | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Retail | Motors | ROB | motor | 21,640 | 57% | 0.00 | 15 | \$2,843 | 86% | 2.4 |
| PECO | VFD on HVAC Fan | Motor w/out VFD | Retail | Motors | Early | motor | 29,667 | 70% | 3.4 | 15 | \$2,903 | 86% | 5.2 |
| PECO | VFD on HVAC Fan | Motor w/out VFD | Retail | Motors | New | motor | 29,112 | 72% | 3.3 | 15 | \$2,843 | 86% | 5.3 |
| PECO | VFD on HVAC Fan | Motor w/out VFD | Retail | Motors | ROB | motor | 29,112 | 72% | 3.3 | 15 | \$2,843 | 86% | 5.3 |
| PECO | Elevators | Std. Eff Elevator | Retail | Other | ROB | measure | 89,016 | 0.6% | 0.07 | 15 | \$126 | 63% | 2.9 |
| PECO | Variable Speed Drives on Process Equipment | Constant speed control | Retail | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 12.0 |
| PECO | Variable Speed Drives on Process Equipment | Constant speed control | Retail | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 12.0 |
| PECO | Auto Off Time Switch | Lighting w/ No Controls | Retail | Other Int. Lighting | Existing | building | 7,104 | 24% | 0.2 | 8 | \$296 | 13% | 2.5 |
| PECO | Auto Off Time Switch | Lighting w/ No Controls | Retail | Other Int. Lighting | New | building | 7,104 | 7.0% | 0.07 | 8 | \$296 | 0% | 0.7 |
| PECO | Central Lighting Control System | Lighting w/ No Controls | Retail | Other Int. Lighting | Existing | building | 7,104 | 38% | 0.4 | 8 | \$296 | 13% | 3.9 |
| PECO | Central Lighting Control System | Lighting w/ No Controls | Retail | Other Int. Lighting | New | building | 7,104 | 14% | 0.1 | 8 | \$296 | 13% | 1.4 |
| PECO | Cold Cathode Screw-In Bulb | 40W Incandescent Bulb | Retail | Other Int. Lighting | Early | lamp | 167 | 87% | 0.04 | 9 | \$30 | 14% | 2.8 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Retail | Other Int. Lighting | Early | lamp | 119 | 81% | 0.03 | 9 | \$30 | 11% | 1.9 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Retail | Other Int. Lighting | New | lamp | 91 | 81% | 0.02 | 9 | \$21 | 14% | 2.0 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Retail | Other Int. Lighting | New | lamp | 91 | 81% | 0.02 | 9 | \$23 | 14% | 1.9 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Retail | Other Int. Lighting | New | lamp | 91 | 81% | 0.02 | 9 | \$22 | 11% | 1.9 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Retail | Other Int. Lighting | ROB | lamp | 119 | 81% | 0.03 | 9 | \$21 | 14% | 2.6 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Retail | Other Int. Lighting | ROB | lamp | 119 | 81% | 0.03 | 9 | \$23 | 14% | 2.4 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Retail | Other Int. Lighting | ROB | lamp | 119 | 81% | 0.03 | 9 | \$22 | 11% | 2.5 |
| PECO | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Retail | Other Int. Lighting | Early | lamp | 167 | 75% | 0.03 | 3 | \$73 | 18% | 0.4 |
| PECO | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Retail | Other Int. Lighting | New | fixture | 181 | 65% | 0.03 | 13 | \$29 | 21% | 3.2 |
| PECO | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Retail | Other Int. Lighting | New | lamp | 91 | 65% | 0.02 | 3 | \$29 | 21% | 0.4 |
| PECO | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Retail | Other Int. Lighting | ROB | fixture | 239 | 65% | 0.04 | 13 | \$29 | 18% | 4.2 |
| PECO | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Retail | Other Int. Lighting | ROB | lamp | 119 | 65% | 0.02 | 3 | \$29 | 18% | 0.6 |
| PECO | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Retail | Other Int. Lighting | Early | lamp | 167 | 75% | 0.03 | 3 | \$3.2 | 20% | 8.2 |
| PECO | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Retail | Other Int. Lighting | New | lamp | 91 | 65% | 0.02 | 3 | \$1.8 | 20% | 7.0 |
| PECO | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Retail | Other Int. Lighting | ROB | lamp | 119 | 65% | 0.02 | 3 | \$1.8 | 20% | 9.2 |
| PECO | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Retail | Other Int. Lighting | ROB | lamp | 119 | 65% | 0.02 | 3 | \$1.8 | 20% | 9.2 |
| PECO | Exit Sign Retrofit: CFL replacing Incandescent | One 23W Single Sided Incandescent Exit Sign | Retail | Other Int. Lighting | Early | exit sign | 130 | 42% | 0.01 | 15 | \$48 | 22% | 0.8 |
| PECO | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Retail | Other Int. Lighting | New | building | 7,104 | 10% | 0.1 | 15 | \$29,254 | 32% | 0.0 |
| PECO | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Retail | Other Int. Lighting | New | building | 7,104 | 15% | 0.2 | 15 | \$73,134 | 32% | 0.0 |
| PECO | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Retail | Other Int. Lighting | New | building | 7,104 | 30% | 0.3 | 15 | \$104,825 | 32% | 0.0 |
| PECO | Indoor Daylight Sensors | Lighting w/ No Controls | Retail | Other Int. Lighting | Existing | building | 7,104 | 28% | 0.3 | 8 | \$1,459 | 13% | 0.6 |
| PECO | Indoor Daylight Sensors | Lighting w/ No Controls | Retail | Other Int. Lighting | New | building | 7,104 | 4.1% | 0.04 | 8 | \$1,459 | 0% | 0.1 |
| PECO | LED Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Retail | Other Int. Lighting | Early | sign | 153 | 87% | 0.02 | 15 | \$48 | 16% | 1.9 |
| PECO | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Retail | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 2.1 |
| PECO | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Retail | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 2.1 |
| PECO | LED Task Lighting/Screw-In | 1 15W CFL bulb | Retail | Other Int. Lighting | Early | lamp | 34 | 33% | 0.00 | 10 | \$9.6 | 20% | 0.7 |
| PECO | LED Task Lighting/Screw-In | 1 60W Incandescent Bulb | Retail | Other Int. Lighting | Early | lamp | 136 | 83% | 0.03 | 10 | \$9.6 | 20% | 7.5 |
| PECO | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Retail | Other Int. Lighting | New | lamp | 74 | 77% | 0.02 | 10 | \$7.9 | 20% | 4.5 |
| PECO | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Retail | Other Int. Lighting | New | lamp | 74 | 77% | 0.02 | 10 | \$7.9 | 20% | 4.5 |
| PECO | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Retail | Other Int. Lighting | ROB | lamp | 98 | 77% | 0.02 | 10 | \$7.9 | 20% | 6.0 |
| PECO | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Retail | Other Int. Lighting | ROB | lamp | 98 | 77% | 0.02 | 10 | \$7.9 | 20% | 6.0 |
| PECO | Occupancy Sensor | Lighting w/ No Controls | Retail | Other Int. Lighting | Existing | building | 7,104 | 24% | 0.2 | 8 | \$447 | 12% | 1.6 |
| PECO | Occupancy Sensor | Lighting w/ No Controls | Retail | Other Int. Lighting | New | building | 7,104 | 7.0% | 0.07 | 8 | \$447 | 0% | 0.5 |
| PECO | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Retail | Other Int. Lighting | Existing | building | 7,104 | 28% | 0.3 | 8 | \$1,459 | 12% | 0.6 |
| PECO | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Retail | Other Int. Lighting | New | building | 7,104 | 4.1% | 0.04 | 8 | \$1,459 | 0% | 0.1 |
| PECO | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Retail | Other Int. Lighting | Early | exit sign | 130 | 100% | 0.02 | 15 | \$173 | 26% | 0.5 |
| PECO | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Retail | Other Int. Lighting | New | exit sign | 75 | 100% | 0.01 | 15 | \$148 | 31% | 0.4 |
| PECO | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Retail | Other Int. Lighting | ROB | exit sign | 75 | 100% | 0.01 | 15 | \$148 | 26% | 0.4 |
| PECO | Time Clock Control | Lighting w/ No Controls | Retail | Other Int. Lighting | Existing | building | 7,104 | 28% | 0.3 | 8 | \$296 | 13% | 2.9 |
| PECO | Time Clock Control | Lighting w/ No Controls | Retail | Other Int. Lighting | New | building | 7,104 | 4.1% | 0.04 | 8 | \$296 | 0% | 0.4 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---|---|---------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Retail | Plug Load | Existing | building | 2,913 | 46% | 0.5 | 5 | \$189 | 4% | 2.6 |
| PECO | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Retail | Plug Load | New | building | 1,422 | 46% | 0.5 | 5 | \$189 | 4% | 1.8 |
| PECO | Data Center - Server/Storage Consolidation | No Consolidation | Retail | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PECO | Data Center - Server/Storage Consolidation | No Consolidation | Retail | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PECO | Data Center - Server/Storage Virtualization | No Virtualization | Retail | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PECO | Data Center - Server/Storage Virtualization | No Virtualization | Retail | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PECO | Energy Star - Scanners | Std Scanner | Retail | Plug Load | New | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| PECO | Energy Star - Scanners | Std Scanner | Retail | Plug Load | ROB | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| PECO | Energy Star Battery Charging System (for small cordless products) | Std. Battery Charging System | Retail | Plug Load | ROB | measure | 593 | 2.3% | 0.1 | 5 | \$65 | 4% | 0.8 |
| PECO | Energy Star Dishwasher | Existing Dishwasher units | Retail | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,580 | 1% | 1.1 |
| PECO | Energy Star Dishwasher | Standard Dishwasher unit | Retail | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 1% | 3.6 |
| PECO | Energy Star Dishwasher | Standard Dishwasher unit | Retail | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 1% | 3.6 |
| PECO | Energy Star External Power Adapter | Std. Power Adapter | Retail | Plug Load | New | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| PECO | Energy Star External Power Adapter | Std. Power Adapter | Retail | Plug Load | ROB | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| PECO | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Retail | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 17% | 0.2 |
| PECO | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Retail | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.3 |
| PECO | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Retail | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.3 |
| PECO | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Retail | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 9% | 0.8 |
| PECO | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Retail | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.8 |
| PECO | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Retail | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.8 |
| PECO | ENERGY STAR® Copiers | 10% Less Efficient Copier | Retail | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 18% | 0.0 |
| PECO | ENERGY STAR® Copiers | One Conventional Copier | Retail | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| PECO | ENERGY STAR® Copiers | One Conventional Copier | Retail | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| PECO | ENERGY STAR® desktop | Standard computer | Retail | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 69% | 0.1 |
| PECO | ENERGY STAR® desktop | Standard computer | Retail | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.4 |
| PECO | ENERGY STAR® desktop | Standard computer | Retail | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.4 |
| PECO | ENERGY STAR® Fax | 10% Less Efficient Fax | Retail | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 15% | 0.0 |
| PECO | ENERGY STAR® Fax | One Conventional Fax | Retail | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| PECO | ENERGY STAR® Fax | One Conventional Fax | Retail | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| PECO | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Retail | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 70% | 0.0 |
| PECO | ENERGY STAR® Monitors | One Conventional Monitor | Retail | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| PECO | ENERGY STAR® Monitors | One Conventional Monitor | Retail | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| PECO | ENERGY STAR® Printers | 10% Less Efficient Printer | Retail | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 44% | 0.0 |
| PECO | ENERGY STAR® Printers | One Conventional Printer | Retail | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.4 |
| PECO | ENERGY STAR® Printers | One Conventional Printer | Retail | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.4 |
| PECO | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Retail | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 43% | 0.1 |
| PECO | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Retail | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.8 |
| PECO | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Retail | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.8 |
| PECO | ENERGY STAR® Televisions | 10% Less Efficient Television | Retail | Plug Load | Early | Unit | 228 | 38% | 0.02 | 6 | \$672 | 40% | 0.0 |
| PECO | ENERGY STAR® Televisions | One Conventional Television | Retail | Plug Load | New | Unit | 207 | 32% | 0.02 | 6 | \$206 | 40% | 0.1 |
| PECO | ENERGY STAR® Televisions | One Conventional Television | Retail | Plug Load | ROB | Unit | 207 | 32% | 0.02 | 6 | \$206 | 40% | 0.1 |
| PECO | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Retail | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 24% | 0.3 |
| PECO | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Retail | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.7 |
| PECO | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Retail | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.7 |
| PECO | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Retail | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.3 |
| PECO | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Retail | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.3 |
| PECO | Network PC Power Management | No PC Power Management | Retail | Plug Load | Existing | building | 425 | 33% | 0.3 | 5 | \$12 | 38% | 18.5 |
| PECO | Network PC Power Management | No PC Power Management | Retail | Plug Load | New | building | 425 | 33% | 0.3 | 5 | \$12 | 38% | 18.5 |
| PECO | Smart Strip Plug Outlets | Standard plug strip/outlet | Retail | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.4 |
| PECO | Smart Strip Plug Outlets | Standard plug strip/outlet | Retail | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.4 |
| PECO | Smart Strip Plug Outlets | Standard plug strip/outlet | Retail | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PECO | Smart Strip Plug Outlets | Standard plug strip/outlet | Retail | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PECO | Smart Strip Plug Outlets | Standard plug strip/outlet | Retail | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PECO | Smart Strip Plug Outlets | Standard plug strip/outlet | Retail | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PECO | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Retail | Plug Load | Existing | building | 2,913 | 46% | 0.5 | 5 | \$180 | 3% | 2.7 |
| PECO | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Retail | Plug Load | New | building | 1,422 | 46% | 0.5 | 5 | \$180 | 3% | 1.9 |
| PECO | Air curtain technology | Strip plastic curtain | Retail | Refrigeration | New | building | 6,208 | 6.8% | 0.07 | 8 | \$736 | 35% | 0.2 |
| PECO | Air curtain technology | Strip plastic curtain | Retail | Refrigeration | New | building | 3,587 | 6.8% | 0.07 | 8 | \$736 | 35% | 0.2 |
| PECO | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Retail | Refrigeration | Existing | building | 1,004 | 7.7% | 0.08 | 12 | \$70 | 11% | 1.5 |
| PECO | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Retail | Refrigeration | New | building | 1,004 | 7.7% | 0.08 | 12 | \$70 | 11% | 1.5 |
| PECO | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Retail | Refrigeration | Existing | building | 1,004 | 9.7% | 0.10 | 12 | \$70 | 11% | 1.9 |
| PECO | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Retail | Refrigeration | New | building | 1,004 | 9.7% | 0.10 | 12 | \$70 | 11% | 1.9 |
| PECO | Auto Closer on Refrigerator Door | Door w/out Autocloser | Retail | Refrigeration | Existing | building | 3,587 | 31% | 0.3 | 8 | \$963 | 40% | 0.6 |
| PECO | Auto Closer on Refrigerator Door | Door w/out Autocloser | Retail | Refrigeration | Existing | building | 6,208 | 13% | 0.1 | 8 | \$728 | 40% | 0.5 |
| PECO | Auto Closer on Refrigerator Door | Door w/out Autocloser | Retail | Refrigeration | New | building | 3,587 | 31% | 0.3 | 8 | \$963 | 40% | 0.6 |
| PECO | Auto Closer on Refrigerator Door | Door w/out Autocloser | Retail | Refrigeration | New | building | 6,208 | 13% | 0.1 | 8 | \$728 | 40% | 0.5 |
| PECO | Demand Hot Gas Defrost | Base Refrigeration System | Retail | Refrigeration | Existing | building | 1,004 | 3.0% | 0.03 | 10 | \$1,305 | 0% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---|--|---------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Demand Hot Gas Defrost | Base Refrigeration System | Retail | Refrigeration | New | building | 1,004 | 3.0% | 0.03 | 10 | \$1,305 | 0% | 0.0 |
| PECO | Door Gasket- Freezer | Door w/out Gasket | Retail | Refrigeration | Existing | building | 3,587 | 17% | 0.2 | 4 | \$99 | 29% | 1.6 |
| PECO | Door Gasket- Freezer | Door w/out Gasket | Retail | Refrigeration | New | building | 3,587 | 11% | 0.1 | 4 | \$99 | 29% | 1.1 |
| PECO | Door Gasket- Refrigerator | Door w/out Gasket | Retail | Refrigeration | Existing | building | 6,208 | 4.1% | 0.04 | 4 | \$101 | 45% | 0.6 |
| PECO | Door Gasket- Refrigerator | Door w/out Gasket | Retail | Refrigeration | New | building | 6,208 | 4.1% | 0.04 | 4 | \$101 | 45% | 0.6 |
| PECO | Economizer for Walk-in Coolers | No Economizer | Retail | Refrigeration | Early | measure | 11,267 | 6.6% | 0.1 | 10 | \$131 | 72% | 2.8 |
| PECO | Economizer for Walk-in Coolers | No Economizer | Retail | Refrigeration | Early | measure | 11,267 | 6.6% | 0.1 | 10 | \$131 | 72% | 2.8 |
| PECO | Economizer for Walk-in Coolers | No Economizer | Retail | Refrigeration | Early | measure | 11,267 | 6.6% | 0.1 | 10 | \$131 | 72% | 2.8 |
| PECO | Economizer for Walk-in Coolers | No Economizer | Retail | Refrigeration | New | measure | 11,267 | 6.6% | 0.1 | 10 | \$15 | 72% | 23.9 |
| PECO | Economizer for Walk-in Coolers | No Economizer | Retail | Refrigeration | New | measure | 11,267 | 6.6% | 0.1 | 10 | \$15 | 72% | 23.9 |
| PECO | Economizer for Walk-in Coolers | No Economizer | Retail | Refrigeration | New | measure | 11,267 | 6.6% | 0.1 | 10 | \$15 | 72% | 23.9 |
| PECO | Economizer for Walk-in Coolers | No Economizer | Retail | Refrigeration | ROB | measure | 11,267 | 6.6% | 0.1 | 10 | \$15 | 72% | 23.8 |
| PECO | Economizer for Walk-in Coolers | No Economizer | Retail | Refrigeration | ROB | measure | 11,267 | 6.6% | 0.1 | 10 | \$15 | 72% | 23.9 |
| PECO | Economizer for Walk-in Coolers | No Economizer | Retail | Refrigeration | ROB | measure | 11,267 | 6.6% | 0.1 | 10 | \$15 | 72% | 23.9 |
| PECO | eCube | Refrigeration unit w/out eCube | Retail | Refrigeration | Existing | building | 6,208 | 15% | 0.2 | 15 | \$413 | 57% | 1.6 |
| PECO | eCube | Refrigeration unit w/out eCube | Retail | Refrigeration | New | building | 6,208 | 15% | 0.2 | 15 | \$413 | 57% | 1.6 |
| PECO | Efficient compressor motor | Base Refrigeration System - Grocery | Retail | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| PECO | Efficient compressor motor | Base Refrigeration System - Grocery | Retail | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| PECO | Efficient compressor motor | Base Refrigeration System - Grocery | Retail | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| PECO | Efficient compressor motor | Base Refrigeration System - Grocery | Retail | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| PECO | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Retail | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.6 |
| PECO | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Retail | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| PECO | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Retail | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| PECO | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Retail | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.3 |
| PECO | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Retail | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.8 |
| PECO | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Retail | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.8 |
| PECO | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Retail | Refrigeration | Existing | building | 6,208 | 1.5% | 0.02 | 10 | \$369 | 77% | 0.1 |
| PECO | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Retail | Refrigeration | New | building | 6,208 | 1.5% | 0.02 | 10 | \$369 | 77% | 0.1 |
| PECO | Floating head pressure controller | System w/out FHPC | Retail | Refrigeration | Existing | building | 3,587 | 6.5% | 0.02 | 15 | \$8,682 | 41% | 0.0 |
| PECO | Floating head pressure controller | System w/out FHPC | Retail | Refrigeration | Existing | building | 1,004 | 9.5% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| PECO | Floating head pressure controller | System w/out FHPC | Retail | Refrigeration | Existing | building | 6,208 | 1.3% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| PECO | Floating head pressure controller | System w/out FHPC | Retail | Refrigeration | New | building | 3,587 | 6.5% | 0.02 | 15 | \$8,682 | 41% | 0.0 |
| PECO | Floating head pressure controller | System w/out FHPC | Retail | Refrigeration | New | building | 1,004 | 9.5% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| PECO | Floating head pressure controller | System w/out FHPC | Retail | Refrigeration | New | building | 6,208 | 1.3% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| PECO | High Efficiency Commercial Freezer | Std. Commercial Freezer | Retail | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 86% | 0.3 |
| PECO | High Efficiency Commercial Freezer | Std. Commercial Freezer | Retail | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 4.2 |
| PECO | High Efficiency Commercial Freezer | Std. Commercial Freezer | Retail | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 4.2 |
| PECO | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Retail | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 2% | 0.1 |
| PECO | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Retail | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.9 |
| PECO | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Retail | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.9 |
| PECO | High Efficiency Ice Maker | Existing Standard Efficiency Ice Maker in Pennsylvania | Retail | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 73% | 0.2 |
| PECO | High Efficiency Ice Maker | Standard code minimum Ice Maker | Retail | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| PECO | High Efficiency Ice Maker | Standard code minimum Ice Maker | Retail | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| PECO | High Efficiency Ice Making Head | Standard Ice Making Head | Retail | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 4.1 |
| PECO | High Efficiency Ice Making Head | Standard Ice Making Head | Retail | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 4.1 |
| PECO | High R-Value Glass Doors | Base Refrigeration System - Grocery | Retail | Refrigeration | Existing | building | 1,004 | 0.7% | 0.01 | 10 | \$17 | 0% | 0.5 |
| PECO | High R-Value Glass Doors | Base Refrigeration System - Grocery | Retail | Refrigeration | New | building | 1,004 | 0.7% | 0.01 | 10 | \$17 | 0% | 0.5 |
| PECO | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Retail | Refrigeration | Early | Fixture | 373 | 56% | 0.02 | 8 | \$448 | 47% | 0.2 |
| PECO | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Retail | Refrigeration | New | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 47% | 0.4 |
| PECO | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Retail | Refrigeration | ROB | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 47% | 0.4 |
| PECO | No-heat glass doors | Standard low-temp reach-in | Retail | Refrigeration | Existing | building | 1,004 | 20% | 0.2 | 10 | \$1,509 | 8% | 0.2 |
| PECO | No-heat glass doors | Standard low-temp reach-in | Retail | Refrigeration | New | building | 1,004 | 20% | 0.2 | 10 | \$1,509 | 8% | 0.2 |
| PECO | Quick acting freezer doors | Std. Freezer Doors | Retail | Refrigeration | Existing | building | 3,587 | 13% | 0.1 | 10 | \$888 | 56% | 0.3 |
| PECO | Quick acting freezer doors | Std. Freezer Doors | Retail | Refrigeration | New | building | 3,587 | 13% | 0.1 | 10 | \$888 | 56% | 0.3 |
| PECO | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Retail | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 30% | 0.4 |
| PECO | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Retail | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.6 |
| PECO | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Retail | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.6 |
| PECO | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 30% | 1.7 |
| PECO | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 3.0 |
| PECO | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 3.0 |
| PECO | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 30% | 1.7 |
| PECO | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 4.0 |
| PECO | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 4.0 |
| PECO | Refrigeration Commissioning | Non-commissioned refrigeration system | Retail | Refrigeration | Existing | building | 11,191 | 9.5% | 0.10 | 3 | \$1,199 | 85% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---|--|---------|-----------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Refrigeration Commissioning | Non-commissioned refrigeration system | Retail | Refrigeration | New | building | 11,191 | 9.5% | 0.10 | 3 | \$1,199 | 85% | 0.1 |
| PECO | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Retail | Refrigeration | Existing | building | 3,587 | 40% | 0.4 | 4 | \$120 | 22% | 3.2 |
| PECO | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Retail | Refrigeration | Existing | building | 6,208 | 5.7% | 0.06 | 4 | \$122 | 22% | 0.6 |
| PECO | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Retail | Refrigeration | New | building | 3,587 | 40% | 0.4 | 4 | \$120 | 22% | 3.2 |
| PECO | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Retail | Refrigeration | New | building | 6,208 | 5.7% | 0.06 | 4 | \$122 | 22% | 0.6 |
| PECO | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Retail | Refrigeration | Existing | building | 3,587 | 5.6% | 0.06 | 11 | \$127 | 79% | 1.0 |
| PECO | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Retail | Refrigeration | New | building | 3,587 | 5.6% | 0.06 | 11 | \$127 | 79% | 1.0 |
| PECO | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Retail | Refrigeration | Existing | building | 6,208 | 4.3% | 0.04 | 11 | \$127 | 79% | 1.2 |
| PECO | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Retail | Refrigeration | New | building | 6,208 | 4.3% | 0.04 | 11 | \$127 | 79% | 1.2 |
| PECO | Vendor Miser | No Vendor Miser | Retail | Refrigeration | Existing | building | 392 | 12% | 0.1 | 8 | \$39 | 7% | 2.5 |
| PECO | Vertical Night Covers | Display cases w/out night covers-High Temperature | Retail | Refrigeration | Existing | building | 1,004 | 0.6% | 0.01 | 5 | \$56 | 9% | 0.1 |
| PECO | Vertical Night Covers | Display cases w/out night covers-High Temperature | Retail | Refrigeration | New | building | 1,004 | 0.6% | 0.01 | 5 | \$56 | 9% | 0.1 |
| PECO | VSD Controlled Compressor | Compressor w/out VSD | Retail | Refrigeration | Early | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.2 |
| PECO | VSD Controlled Compressor | Compressor w/out VSD | Retail | Refrigeration | New | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.2 |
| PECO | VSD Controlled Compressor | Compressor w/out VSD | Retail | Refrigeration | ROB | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.2 |
| PECO | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Retail | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$269 | 35% | 0.9 |
| PECO | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Retail | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$269 | 35% | 0.9 |
| PECO | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Retail | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.2 |
| PECO | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Retail | Refrigeration | New | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 3.0 |
| PECO | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Retail | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.2 |
| PECO | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Retail | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 3.0 |
| PECO | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 35% | 2.4 |
| PECO | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 35% | 2.3 |
| PECO | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 5.2 |
| PECO | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.9 |
| PECO | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 5.2 |
| PECO | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.9 |
| PECO | Adding reflective roof treatment | Std color roof | Retail | Space Heating | Existing | building | 18,299 | 7.1% | 0.07 | 6 | \$14,678 | 82% | 0.0 |
| PECO | Adding reflective roof treatment | Std color roof | Retail | Space Heating | New | building | 18,299 | 7.1% | 0.07 | 6 | \$14,678 | 82% | 0.0 |
| PECO | Adding window shade film | No shade film | Retail | Space Heating | Existing | building | 18,299 | 1.3% | 0.4 | 10 | \$223 | 13% | 1.7 |
| PECO | Adding window shade film | No shade film | Retail | Space Heating | New | building | 18,299 | 1.3% | 0.4 | 10 | \$223 | 13% | 1.7 |
| PECO | Adding window shade screen | No shade screen | Retail | Space Heating | Existing | building | 18,299 | 1.1% | 0.01 | 10 | \$86 | 13% | 1.0 |
| PECO | Adding window shade screen | No shade screen | Retail | Space Heating | New | building | 18,299 | 1.1% | 0.01 | 10 | \$86 | 13% | 1.0 |
| PECO | Automated control system | Manual Controls | Retail | Space Heating | Existing | building | 18,299 | 17% | 0.2 | 15 | \$20,033 | 51% | 0.1 |
| PECO | Automated control system | Manual Controls | Retail | Space Heating | New | building | 18,299 | 17% | 0.2 | 15 | \$20,033 | 94% | 0.1 |
| PECO | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Retail | Space Heating | Existing | building | 18,299 | 4.9% | 0.05 | 15 | \$19,662 | 71% | 0.0 |
| PECO | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Retail | Space Heating | New | building | 18,299 | 1.6% | 0.02 | 15 | \$18,689 | 94% | 0.0 |
| PECO | Duct Insulation, Add R8 | No Insulation | Retail | Space Heating | Existing | building | 18,299 | 1.4% | 0.04 | 15 | \$145 | 20% | 1.2 |
| PECO | Duct Insulation, Add R8 | No Insulation | Retail | Space Heating | New | building | 18,299 | 1.4% | 0.04 | 15 | \$145 | 10% | 1.2 |
| PECO | Efficient Unit Heating System | Existing Unit Heaters in PA | Retail | Space Heating | Early | heater | 14,200 | 23% | 0.03 | 15 | \$3,289 | 83% | 0.5 |
| PECO | Efficient Unit Heating System | Std. Unit Heater | Retail | Space Heating | New | heater | 12,603 | 13% | 0.01 | 15 | \$1,991 | 83% | 0.4 |
| PECO | Efficient Unit Heating System | Std. Unit Heater | Retail | Space Heating | ROB | heater | 12,603 | 13% | 0.01 | 15 | \$1,991 | 83% | 0.4 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Retail | Space Heating | Existing | building | 18,299 | 7.1% | 0.07 | 15 | \$81,169 | 25% | 0.0 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Retail | Space Heating | New | building | 18,299 | 7.1% | 0.07 | 15 | \$81,169 | 35% | 0.0 |
| PECO | Hi Eff HVAC System Design | No HVAC Design | Retail | Space Heating | New | building | 18,299 | 11% | 0.1 | 10 | \$180,569 | 51% | 0.0 |
| PECO | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Retail | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 1.1 |
| PECO | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Retail | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 1.1 |
| PECO | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Retail | Space Heating | Existing | building | 18,299 | 2.3% | 0.02 | 10 | \$7,735 | 81% | 0.0 |
| PECO | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Retail | Space Heating | New | building | 18,299 | 2.3% | 0.02 | 10 | \$7,735 | 81% | 0.0 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Retail | Space Heating | Existing | building | 18,299 | 3.6% | 0.04 | 11 | \$286 | 49% | 1.1 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Retail | Space Heating | New | building | 18,299 | 3.1% | 0.03 | 11 | \$146 | 49% | 1.8 |
| PECO | Re-Commissioning (Existing Construction) | No Re-Commissioning | Retail | Space Heating | Existing | building | 18,299 | 16% | 0.2 | 5 | \$8,051 | 86% | 0.1 |
| PECO | VFD on Cooling Tower Fan | Motor w/out VFD | Retail | Space Heating | Early | motor | 29,667 | 70% | 3.4 | 15 | \$2,843 | 88% | 5.1 |
| PECO | VFD on Cooling Tower Fan | Motor w/out VFD | Retail | Space Heating | New | motor | 29,112 | 72% | 3.3 | 15 | \$2,843 | 88% | 5.1 |
| PECO | VFD on Cooling Tower Fan | Motor w/out VFD | Retail | Space Heating | ROB | motor | 29,112 | 72% | 3.3 | 15 | \$2,843 | 88% | 5.1 |
| PECO | Wall Insualtions (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Retail | Space Heating | Existing | building | 18,299 | 8.1% | 0.08 | 15 | \$5,499 | 26% | 0.2 |
| PECO | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Retail | Space Heating | New | building | 18,299 | 0.3% | 0.00 | 15 | \$4,218 | 94% | 0.0 |
| PECO | Green LED Traffic Light | Green Incandescent Traffic Light | Retail | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 0% | 1.3 |
| PECO | Green LED Traffic Light | Green Incandescent Traffic Light | Retail | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.2 |
| PECO | Green LED Traffic Light | Green Incandescent Traffic Light | Retail | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.2 |
| PECO | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Retail | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 0% | 3.2 |
| PECO | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Retail | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| PECO | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Retail | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| PECO | Induction Street Lighting | One 100W HPS Street Light Fixture | Retail | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 0% | 0.3 |
| PECO | Induction Street Lighting | One 100W HPS Street Light Fixture | Retail | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.8 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|--|---|-----------------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Induction Street Lighting | One 100W HPS Street Light Fixture | Retail | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.8 |
| PECO | LED Street Lighting | One 100W HPS Street Light | Retail | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 0% | 0.2 |
| PECO | LED Street Lighting | One 100W HPS Street Light | Retail | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| PECO | LED Street Lighting | One 100W HPS Street Light | Retail | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| PECO | Red LED Traffic Light | One Red Incandescent Traffic Light | Retail | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 0% | 1.7 |
| PECO | Red LED Traffic Light | One Red Incandescent Traffic Light | Retail | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| PECO | Red LED Traffic Light | One Red Incandescent Traffic Light | Retail | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| PECO | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Retail | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 0% | 0.1 |
| PECO | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Retail | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| PECO | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Retail | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| PECO | Demand controlled Circulating Systems | Constant circulation system | Retail | Water Heating | Existing | building | 6,308 | 20% | 0.2 | 15 | \$1,145 | 59% | 0.8 |
| PECO | Demand controlled Circulating Systems | Constant circulation system | Retail | Water Heating | New | building | 6,308 | 20% | 0.2 | 15 | \$1,145 | 59% | 0.8 |
| PECO | Drainwater Heat Recovery Water Heater | No heat recovery | Retail | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 2.0 |
| PECO | Drainwater Heat Recovery Water Heater | No heat recovery | Retail | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 2.0 |
| PECO | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Retail | Water Heating | Existing | building | 6,308 | 5.9% | 0.06 | 12 | \$14 | 85% | 16.2 |
| PECO | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Retail | Water Heating | New | building | 6,308 | 5.9% | 0.06 | 12 | \$4.0 | 85% | 56.6 |
| PECO | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Retail | Water Heating | Early | water heater | 4,077 | 66% | 0.5 | 10 | \$1,187 | 68% | 1.2 |
| PECO | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Retail | Water Heating | Early | water heater | 4,077 | 66% | 0.5 | 10 | \$1,187 | 68% | 1.2 |
| PECO | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Retail | Water Heating | New | water heater | 4,077 | 66% | 0.5 | 10 | \$1,187 | 68% | 1.2 |
| PECO | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Retail | Water Heating | New | water heater | 4,077 | 66% | 0.5 | 10 | \$1,187 | 68% | 1.2 |
| PECO | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Retail | Water Heating | ROB | water heater | 3,963 | 65% | 0.5 | 10 | \$1,187 | 68% | 1.2 |
| PECO | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Retail | Water Heating | ROB | water heater | 3,963 | 65% | 0.5 | 10 | \$1,187 | 68% | 1.2 |
| PECO | Heat Recovery Unit | Base Water Heating | Retail | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.7 |
| PECO | Heat Recovery Unit | Base Water Heating | Retail | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.7 |
| PECO | Heat Trap | No Heat Trap | Retail | Water Heating | Existing | building | 6,308 | 22% | 0.2 | 11 | \$43 | 50% | 18.5 |
| PECO | Heat Trap | No Heat Trap | Retail | Water Heating | New | building | 6,308 | 22% | 0.2 | 11 | \$6.4 | 50% | 124.4 |
| PECO | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Retail | Water Heating | Early | water heater | 4,077 | 5.9% | 0.04 | 15 | \$307 | 79% | 0.6 |
| PECO | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Retail | Water Heating | Early | water heater | 4,077 | 5.9% | 0.04 | 15 | \$307 | 79% | 0.6 |
| PECO | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Retail | Water Heating | New | water heater | 3,963 | 3.2% | 0.02 | 15 | \$307 | 79% | 0.3 |
| PECO | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Retail | Water Heating | New | water heater | 3,963 | 3.2% | 0.02 | 15 | \$307 | 79% | 0.3 |
| PECO | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Retail | Water Heating | ROB | water heater | 3,963 | 3.2% | 0.02 | 15 | \$307 | 79% | 0.3 |
| PECO | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Retail | Water Heating | ROB | water heater | 3,963 | 3.2% | 0.02 | 15 | \$307 | 79% | 0.3 |
| PECO | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Retail | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$466 | 81% | 41.5 |
| PECO | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Retail | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 21.6 |
| PECO | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Retail | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 21.6 |
| PECO | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Retail | Water Heating | Existing | building | 6,308 | 0.5% | 0.01 | 13 | \$4.8 | 68% | 4.4 |
| PECO | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Retail | Water Heating | New | building | 6,308 | 0.5% | 0.01 | 13 | \$4.8 | 0% | 4.4 |
| PECO | Hot Water Circulation Pump Time-Clock | Constant circulation system | Retail | Water Heating | Existing | building | 6,308 | 5.3% | 0.05 | 10 | \$25 | 72% | 6.9 |
| PECO | Hot Water Circulation Pump Time-Clock | Constant circulation system | Retail | Water Heating | New | building | 6,308 | 5.3% | 0.05 | 10 | \$25 | 72% | 6.9 |
| PECO | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Retail | Water Heating | Existing | building | 5,798 | 2.3% | 0.02 | 7 | \$22 | 78% | 2.4 |
| PECO | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Retail | Water Heating | New | building | 5,798 | 2.1% | 0.02 | 7 | \$0.5 | 78% | 96.7 |
| PECO | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Retail | Water Heating | Existing | building | 6,308 | 3.0% | 0.03 | 5 | \$300 | 0% | 0.2 |
| PECO | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Retail | Water Heating | New | building | 6,308 | 2.0% | 0.02 | 5 | \$194 | 0% | 0.2 |
| PECO | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Retail | Water Heating | Existing | building | 6,308 | 6.5% | 0.07 | 9 | \$25 | 2% | 7.9 |
| PECO | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Retail | Water Heating | New | building | 6,308 | 6.5% | 0.07 | 9 | \$6.0 | 2% | 33.0 |
| PECO | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Retail | Water Heating | Early | water heater | 4,077 | 52% | 0.2 | 15 | \$6,222 | 32% | 0.2 |
| PECO | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Retail | Water Heating | New | water heater | 3,963 | 51% | 0.2 | 15 | \$6,222 | 32% | 0.2 |
| PECO | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Retail | Water Heating | ROB | water heater | 3,963 | 51% | 0.2 | 15 | \$6,222 | 32% | 0.2 |
| PECO | Ultrasonic Faucet Control | Manual Faucet Control | Retail | Water Heating | Existing | building | 6,308 | 3.0% | 0.03 | 10 | \$1,091 | 77% | 0.1 |
| PECO | Ultrasonic Faucet Control | Manual Faucet Control | Retail | Water Heating | New | building | 6,308 | 3.0% | 0.03 | 10 | \$1,091 | 77% | 0.1 |
| PECO | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Retail | Water Heating | Existing | building | 6,308 | 2.2% | 0.02 | 4 | \$28 | 83% | 1.2 |
| PECO | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Retail | Water Heating | New | building | 6,308 | 2.3% | 0.02 | 4 | \$28 | 83% | 1.2 |
| PECO | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Street Lighting | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.2 |
| PECO | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Street Lighting | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.2 |
| PECO | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Street Lighting | Cooking | Early | steamer | 51 | 46% | 0.00 | 12 | \$5,053 | 81% | 0.0 |
| PECO | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Street Lighting | Cooking | New | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| PECO | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Street Lighting | Cooking | ROB | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| PECO | Electric combination oven (Energy Star) | Standard Oven | Street Lighting | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 3.3 |
| PECO | Electric combination oven (Energy Star) | Standard Oven | Street Lighting | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 3.3 |
| PECO | Electric Convection Oven | Conventional convection oven w/ 65% efficiency | Street Lighting | Cooking | Early | oven | 8,641 | 37% | 0.6 | 12 | \$4,119 | 81% | 0.5 |
| PECO | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Street Lighting | Cooking | New | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.8 |
| PECO | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Street Lighting | Cooking | ROB | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.8 |
| PECO | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Street Lighting | Cooking | Early | fryer | 6,105 | 23% | 0.3 | 12 | \$9,241 | 86% | 0.1 |
| PECO | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Street Lighting | Cooking | New | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.4 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|--|---|-----------------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Street Lighting | Cooking | ROB | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.4 |
| PECO | High Efficiency Griddle (ENERGY STAR) | Efficiency code minimum griddle (70% eff) | Street Lighting | Cooking | Early | griddle | 11,317 | 65% | 1.4 | 12 | \$4,977 | 86% | 1.0 |
| PECO | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Street Lighting | Cooking | New | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.3 |
| PECO | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Street Lighting | Cooking | ROB | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.3 |
| PECO | High Efficiency Induction Cooking | Standard Cooking | Street Lighting | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.2 |
| PECO | High Efficiency Induction Cooking | Standard Cooking | Street Lighting | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.2 |
| PECO | Adding reflective roof treatment | Std color roof | Street Lighting | Cooling Central | Existing | building | 1,700 | 7.0% | 0.07 | 6 | \$13,365 | 82% | 0.0 |
| PECO | Adding reflective roof treatment | Std color roof | Street Lighting | Cooling Central | New | building | 1,700 | 7.0% | 0.07 | 6 | \$13,365 | 82% | 0.0 |
| PECO | Adding window shade film | No shade film | Street Lighting | Cooling Central | Existing | building | 1,700 | 1.3% | 0.4 | 10 | \$21 | 12% | 14.6 |
| PECO | Adding window shade film | No shade film | Street Lighting | Cooling Central | New | building | 1,700 | 1.3% | 0.4 | 10 | \$21 | 13% | 14.6 |
| PECO | Adding window shade screen | No shade screen | Street Lighting | Cooling Central | Existing | building | 1,700 | 1.1% | 0.01 | 10 | \$8.0 | 13% | 1.9 |
| PECO | Adding window shade screen | No shade screen | Street Lighting | Cooling Central | New | building | 1,700 | 1.0% | 0.01 | 10 | \$8.0 | 13% | 1.9 |
| PECO | Automated control system | Manual Controls | Street Lighting | Cooling Central | Existing | building | 1,700 | 17% | 0.2 | 15 | \$1,861 | 51% | 0.2 |
| PECO | Automated control system | Manual Controls | Street Lighting | Cooling Central | New | building | 1,700 | 17% | 0.2 | 15 | \$1,861 | 94% | 0.2 |
| PECO | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Street Lighting | Cooling Central | Existing | building | 1,700 | 6.2% | 0.06 | 15 | \$17,130 | 71% | 0.0 |
| PECO | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Street Lighting | Cooling Central | New | building | 1,700 | 2.1% | 0.02 | 15 | \$16,283 | 94% | 0.0 |
| PECO | Chiller Tuneup/Diagnostics | No tuneup | Street Lighting | Cooling Central | Existing | building | 1,700 | 8.0% | 0.08 | 10 | \$4,341 | 59% | 0.0 |
| PECO | Chiller Tuneup/Diagnostics | No tuneup | Street Lighting | Cooling Central | New | building | 1,700 | 8.0% | 0.08 | 10 | \$4,341 | 59% | 0.0 |
| PECO | Duct Insulation, Add R8 | No Insulation | Street Lighting | Cooling Central | Existing | building | 1,700 | 1.4% | 0.04 | 15 | \$14 | 20% | 4.1 |
| PECO | Duct Insulation, Add R8 | No Insulation | Street Lighting | Cooling Central | New | building | 1,700 | 1.4% | 0.04 | 15 | \$14 | 10% | 4.1 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Street Lighting | Cooling Central | Existing | building | 1,700 | 7.0% | 0.07 | 15 | \$7,541 | 25% | 0.0 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Street Lighting | Cooling Central | New | building | 1,700 | 7.0% | 0.07 | 15 | \$7,541 | 35% | 0.0 |
| PECO | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | Early | ton | 5,730 | 24% | 0.3 | 15 | \$108,550 | 88% | 0.0 |
| PECO | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | New | ton | 4,684 | 6.7% | 0.07 | 15 | \$12,927 | 88% | 0.0 |
| PECO | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | ROB | ton | 4,684 | 6.7% | 0.07 | 15 | \$12,927 | 88% | 0.0 |
| PECO | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | Early | ton | 8,562 | 23% | 0.5 | 15 | \$140,105 | 88% | 0.0 |
| PECO | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | New | ton | 6,888 | 4.9% | 0.08 | 15 | \$9,336 | 88% | 0.0 |
| PECO | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | ROB | ton | 6,888 | 4.9% | 0.08 | 15 | \$9,336 | 88% | 0.0 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | Early | ton | 70,089 | 26% | 4.1 | 15 | \$105,354 | 88% | 0.1 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | New | ton | 61,068 | 15% | 2.1 | 15 | \$30,530 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | ROB | ton | 61,068 | 15% | 2.1 | 15 | \$30,530 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | Early | ton | 104,974 | 23% | 5.4 | 15 | \$154,107 | 88% | 0.1 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | New | ton | 96,432 | 16% | 3.5 | 15 | \$27,646 | 88% | 0.4 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | ROB | ton | 104,974 | 23% | 5.4 | 15 | \$27,646 | 88% | 0.7 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | Early | ton | 174,342 | 23% | 8.9 | 15 | \$302,924 | 88% | 0.1 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | New | ton | 157,792 | 14% | 5.1 | 15 | \$115,432 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | ROB | ton | 174,342 | 23% | 8.9 | 15 | \$115,432 | 88% | 0.3 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | Early | ton | 209,211 | 23% | 10.6 | 15 | \$350,154 | 88% | 0.1 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | New | ton | 189,351 | 14% | 6.2 | 15 | \$120,406 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | ROB | ton | 209,211 | 23% | 10.6 | 15 | \$120,406 | 88% | 0.3 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | Early | ton | 46,373 | 29% | 3.1 | 15 | \$83,632 | 88% | 0.1 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | New | ton | 36,008 | 8.9% | 0.7 | 15 | \$40,211 | 88% | 0.1 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | ROB | ton | 46,373 | 29% | 3.1 | 15 | \$40,211 | 88% | 0.3 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | Early | ton | 79,681 | 35% | 6.2 | 15 | \$132,173 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | New | ton | 59,428 | 13% | 1.7 | 15 | \$39,556 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | ROB | ton | 59,428 | 13% | 1.7 | 15 | \$39,556 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | Early | ton | 133,034 | 39% | 11.7 | 15 | \$187,029 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | New | ton | 94,851 | 15% | 3.1 | 15 | \$33,554 | 88% | 0.3 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | ROB | ton | 133,034 | 39% | 11.7 | 15 | \$33,554 | 88% | 1.2 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | Early | ton | 23,279 | 30% | 1.6 | 15 | \$32,398 | 88% | 0.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---|---|-----------------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | New | ton | 18,443 | 11% | 0.5 | 15 | \$7,188 | 88% | 0.2 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | ROB | ton | 23,279 | 30% | 1.6 | 15 | \$7,188 | 88% | 0.8 |
| PECO | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Street Lighting | Cooling Central | Existing | building | 1,700 | 2.2% | 0.02 | 10 | \$10,066 | 81% | 0.0 |
| PECO | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Street Lighting | Cooling Central | New | building | 1,700 | 2.2% | 0.02 | 10 | \$10,066 | 81% | 0.0 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Street Lighting | Cooling Central | Existing | building | 1,700 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.1 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Street Lighting | Cooling Central | New | building | 1,700 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.2 |
| PECO | Re-Commissioning (Existing Construction) | No Re-Commissioning | Street Lighting | Cooling Central | Existing | building | 1,700 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |
| PECO | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Street Lighting | Cooling Central | Existing | building | 1,700 | 11% | 0.1 | 15 | \$3,285 | 26% | 0.1 |
| PECO | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Street Lighting | Cooling Central | New | building | 1,700 | 0.3% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| PECO | <65k BTU/hr 14 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Street Lighting | Cooling Unitary | Early | ton | 2,324 | 16% | 0.2 | 15 | \$1,545 | 29% | 0.3 |
| PECO | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Street Lighting | Cooling Unitary | New | ton | 2,104 | 7.1% | 0.09 | 15 | \$339 | 29% | 0.5 |
| PECO | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Street Lighting | Cooling Unitary | ROB | ton | 2,104 | 7.1% | 0.09 | 15 | \$339 | 29% | 0.5 |
| PECO | <65k BTU/hr 15 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Street Lighting | Cooling Unitary | Early | ton | 2,324 | 22% | 0.3 | 15 | \$1,821 | 30% | 0.3 |
| PECO | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Street Lighting | Cooling Unitary | New | ton | 2,104 | 13% | 0.2 | 15 | \$714 | 30% | 0.5 |
| PECO | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Street Lighting | Cooling Unitary | ROB | ton | 2,104 | 13% | 0.2 | 15 | \$714 | 30% | 0.5 |
| PECO | <65k BTU/hr 16 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Street Lighting | Cooling Unitary | Early | ton | 2,324 | 26% | 0.4 | 15 | \$2,098 | 31% | 0.4 |
| PECO | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Street Lighting | Cooling Unitary | New | ton | 2,104 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.4 |
| PECO | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Street Lighting | Cooling Unitary | ROB | ton | 2,104 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.4 |
| PECO | >760k min 10.2 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Street Lighting | Cooling Unitary | Early | ton | 58,786 | 3.7% | 1.4 | 15 | \$68,066 | 56% | 0.0 |
| PECO | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Street Lighting | Cooling Unitary | New | ton | 59,540 | 4.9% | 1.8 | 15 | \$6,231 | 56% | 0.6 |
| PECO | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Street Lighting | Cooling Unitary | ROB | ton | 59,540 | 4.9% | 1.8 | 15 | \$6,231 | 56% | 0.6 |
| PECO | 135-240k min 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Street Lighting | Cooling Unitary | Early | ton | 14,464 | 18% | 1.6 | 15 | \$18,135 | 79% | 0.2 |
| PECO | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Street Lighting | Cooling Unitary | New | ton | 13,158 | 10.0% | 0.8 | 15 | \$1,948 | 79% | 0.8 |
| PECO | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Street Lighting | Cooling Unitary | ROB | ton | 13,158 | 10.0% | 0.8 | 15 | \$1,948 | 79% | 0.8 |
| PECO | 240k-760k min 11 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Street Lighting | Cooling Unitary | Early | ton | 38,675 | 9.0% | 2.2 | 15 | \$44,809 | 66% | 0.1 |
| PECO | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Street Lighting | Cooling Unitary | New | ton | 38,771 | 9.3% | 2.2 | 15 | \$4,813 | 66% | 0.9 |
| PECO | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Street Lighting | Cooling Unitary | ROB | ton | 38,771 | 9.3% | 2.2 | 15 | \$4,813 | 66% | 0.9 |
| PECO | 65k-135k BTU/hr 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Street Lighting | Cooling Unitary | Early | ton | 8,527 | 17% | 0.9 | 15 | \$10,946 | 86% | 0.2 |
| PECO | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Street Lighting | Cooling Unitary | New | ton | 7,599 | 6.7% | 0.3 | 15 | \$1,392 | 86% | 0.4 |
| PECO | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Street Lighting | Cooling Unitary | ROB | ton | 7,599 | 6.7% | 0.3 | 15 | \$1,392 | 86% | 0.4 |
| PECO | Adding reflective roof treatment | Std color roof | Street Lighting | Cooling Unitary | Existing | building | 25,311 | 7.0% | 0.07 | 6 | \$13,313 | 82% | 0.0 |
| PECO | Adding reflective roof treatment | Std color roof | Street Lighting | Cooling Unitary | New | building | 25,311 | 7.0% | 0.07 | 6 | \$13,313 | 82% | 0.0 |
| PECO | Adding window shade film | No shade film | Street Lighting | Cooling Unitary | Existing | building | 25,311 | 1.3% | 0.4 | 10 | \$308 | 12% | 1.4 |
| PECO | Adding window shade film | No shade film | Street Lighting | Cooling Unitary | New | building | 25,311 | 1.3% | 0.4 | 10 | \$308 | 13% | 1.4 |
| PECO | Adding window shade screen | No shade screen | Street Lighting | Cooling Unitary | Existing | building | 25,311 | 1.1% | 0.01 | 10 | \$119 | 12% | 1.0 |
| PECO | Adding window shade screen | No shade screen | Street Lighting | Cooling Unitary | New | building | 25,311 | 1.1% | 0.01 | 10 | \$119 | 13% | 1.0 |
| PECO | Automated control system | Manual Controls | Street Lighting | Cooling Unitary | Existing | building | 25,311 | 17% | 0.2 | 15 | \$27,710 | 51% | 0.1 |
| PECO | Automated control system | Manual Controls | Street Lighting | Cooling Unitary | New | building | 25,311 | 17% | 0.2 | 15 | \$27,710 | 94% | 0.1 |
| PECO | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Street Lighting | Cooling Unitary | Existing | building | 25,311 | 6.2% | 0.06 | 15 | \$17,130 | 71% | 0.1 |
| PECO | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Street Lighting | Cooling Unitary | New | building | 25,311 | 2.1% | 0.02 | 15 | \$16,283 | 94% | 0.0 |
| PECO | Duct Insulation, Add R8 | No Insulation | Street Lighting | Cooling Unitary | Existing | building | 25,311 | 1.4% | 0.04 | 15 | \$201 | 20% | 1.2 |
| PECO | Duct Insulation, Add R8 | No Insulation | Street Lighting | Cooling Unitary | New | building | 25,311 | 1.4% | 0.04 | 15 | \$201 | 10% | 1.2 |
| PECO | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Street Lighting | Cooling Unitary | Existing | building | 13,832 | 13% | 0.1 | 1 | \$133 | 73% | 0.7 |
| PECO | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Street Lighting | Cooling Unitary | New | building | 13,832 | 13% | 0.1 | 1 | \$133 | 73% | 0.7 |
| PECO | ECM Motors for split systems | Std Shaded Pole Motor | Street Lighting | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 3.2 |
| PECO | ECM Motors for split systems | Std Shaded Pole Motor | Street Lighting | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 3.2 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Street Lighting | Cooling Unitary | Existing | building | 25,311 | 7.1% | 0.07 | 15 | \$112,275 | 25% | 0.0 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Street Lighting | Cooling Unitary | New | building | 25,311 | 7.1% | 0.07 | 15 | \$112,275 | 35% | 0.0 |
| PECO | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Street Lighting | Cooling Unitary | Existing | building | 25,311 | 5.0% | 0.05 | 5 | \$225 | 59% | 1.3 |
| PECO | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Street Lighting | Cooling Unitary | Existing | building | 25,311 | 2.2% | 0.02 | 10 | \$10,818 | 86% | 0.0 |
| PECO | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Street Lighting | Cooling Unitary | New | building | 25,311 | 2.2% | 0.02 | 10 | \$10,818 | 86% | 0.0 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) | Street Lighting | Cooling Unitary | Existing | building | 25,311 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.9 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Street Lighting | Cooling Unitary | New | building | 25,311 | 1.7% | 0.02 | 11 | \$146 | 49% | 1.4 |
| PECO | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Street Lighting | Cooling Unitary | Early | unit | 902 | 19% | 0.04 | 15 | \$849 | 85% | 0.2 |
| PECO | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Street Lighting | Cooling Unitary | New | unit | 911 | 20% | 0.04 | 15 | \$356 | 85% | 0.4 |
| PECO | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Street Lighting | Cooling Unitary | ROB | unit | 911 | 20% | 0.04 | 15 | \$356 | 85% | 0.4 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|--|--|-----------------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Re-Commissioning (Existing Construction) | No Re-Commissioning | Street Lighting | Cooling Unitary | Existing | building | 25,311 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.1 |
| PECO | Room AC (w/ louvered sides) | Existing efficiency Room AC in Pennsylvania (2000 Federal Standards) | Street Lighting | Cooling Unitary | Early | ton | 1,428 | 13% | 0.04 | 9 | \$348 | 82% | 0.3 |
| PECO | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Street Lighting | Cooling Unitary | New | ton | 1,295 | 4.5% | 0.01 | 9 | \$17 | 82% | 1.8 |
| PECO | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Street Lighting | Cooling Unitary | ROB | ton | 1,295 | 4.5% | 0.01 | 9 | \$17 | 82% | 1.8 |
| PECO | Wall Insualtions (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Street Lighting | Cooling Unitary | Existing | building | 25,311 | 11% | 0.1 | 15 | \$3,285 | 26% | 0.5 |
| PECO | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Street Lighting | Cooling Unitary | New | building | 25,311 | 0.3% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| PECO | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Street Lighting | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 1.1 |
| PECO | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Street Lighting | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.4 |
| PECO | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Street Lighting | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.4 |
| PECO | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Street Lighting | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 0% | 0.2 |
| PECO | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Street Lighting | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| PECO | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Street Lighting | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| PECO | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Street Lighting | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 53% | 0.3 |
| PECO | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Street Lighting | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 53% | 0.2 |
| PECO | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Street Lighting | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 53% | 2.6 |
| PECO | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Street Lighting | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 53% | 2.0 |
| PECO | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Street Lighting | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 53% | 2.6 |
| PECO | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Street Lighting | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 53% | 2.0 |
| PECO | Photocell Controls (Outdoor) | Lighting w/ No Controls | Street Lighting | Ext. Lighting | Existing | building | 101 | 28% | 0.3 | 8 | \$5,088 | 88% | 0.0 |
| PECO | Photocell Controls (Outdoor) | Lighting w/ No Controls | Street Lighting | Ext. Lighting | New | building | 101 | 28% | 0.3 | 8 | \$5,088 | 0% | 0.0 |
| PECO | Adding reflective roof treatment | Std color roof | Street Lighting | Heat Pump | Existing | building | 2,713 | 6.9% | 0.07 | 6 | \$13,275 | 82% | 0.0 |
| PECO | Adding reflective roof treatment | Std color roof | Street Lighting | Heat Pump | New | building | 2,713 | 6.9% | 0.07 | 6 | \$13,275 | 82% | 0.0 |
| PECO | Adding window shade film | No shade film | Street Lighting | Heat Pump | Existing | building | 2,713 | 3.9% | 0.4 | 10 | \$33 | 12% | 10.2 |
| PECO | Adding window shade film | No shade film | Street Lighting | Heat Pump | New | building | 2,713 | 3.9% | 0.4 | 10 | \$33 | 12% | 10.2 |
| PECO | Adding window shade screen | No shade screen | Street Lighting | Heat Pump | Existing | building | 2,713 | 0.3% | 0.01 | 10 | \$4.3 | 12% | 2.7 |
| PECO | Adding window shade screen | No shade screen | Street Lighting | Heat Pump | New | building | 2,713 | 0.3% | 0.01 | 10 | \$4.3 | 12% | 2.7 |
| PECO | Automated control system | Manual Controls | Street Lighting | Heat Pump | Existing | building | 2,713 | 17% | 0.2 | 15 | \$2,970 | 51% | 0.1 |
| PECO | Automated control system | Manual Controls | Street Lighting | Heat Pump | New | building | 2,713 | 17% | 0.2 | 15 | \$2,970 | 94% | 0.1 |
| PECO | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Street Lighting | Heat Pump | Existing | building | 2,713 | 6.2% | 0.06 | 15 | \$17,130 | 71% | 0.0 |
| PECO | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Street Lighting | Heat Pump | New | building | 2,713 | 2.1% | 0.02 | 15 | \$16,283 | 94% | 0.0 |
| PECO | Duct Insulation, Add R8 | No Insulation | Street Lighting | Heat Pump | Existing | building | 2,713 | 4.0% | 0.04 | 15 | \$22 | 12% | 4.8 |
| PECO | Duct Insulation, Add R8 | No Insulation | Street Lighting | Heat Pump | New | building | 2,713 | 4.0% | 0.04 | 15 | \$22 | 6% | 4.8 |
| PECO | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Street Lighting | Heat Pump | Early | heat pump | 2,374 | 13% | 0.07 | 15 | \$4,070 | 83% | 0.1 |
| PECO | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Street Lighting | Heat Pump | New | heat pump | 2,249 | 7.7% | 0.04 | 15 | \$1,097 | 83% | 0.1 |
| PECO | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Street Lighting | Heat Pump | ROB | heat pump | 2,249 | 7.7% | 0.04 | 15 | \$1,097 | 83% | 0.1 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Street Lighting | Heat Pump | Existing | building | 2,713 | 7.0% | 0.07 | 15 | \$12,032 | 25% | 0.0 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Street Lighting | Heat Pump | New | building | 2,713 | 7.0% | 0.07 | 15 | \$12,032 | 35% | 0.0 |
| PECO | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Street Lighting | Heat Pump | Early | heat pump | 24,756 | 18% | 1.0 | 15 | \$91,117 | 19% | 0.0 |
| PECO | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Street Lighting | Heat Pump | New | heat pump | 23,724 | 14% | 0.8 | 15 | \$33,927 | 19% | 0.1 |
| PECO | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Street Lighting | Heat Pump | ROB | heat pump | 23,724 | 14% | 0.8 | 15 | \$33,927 | 19% | 0.1 |
| PECO | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Street Lighting | Heat Pump | Early | heat pump | 24,756 | 18% | 1.0 | 15 | \$58,356 | 19% | 0.1 |
| PECO | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Street Lighting | Heat Pump | New | heat pump | 23,724 | 14% | 0.8 | 15 | \$1,167 | 19% | 2.3 |
| PECO | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Street Lighting | Heat Pump | ROB | heat pump | 23,724 | 14% | 0.8 | 15 | \$1,167 | 19% | 2.3 |
| PECO | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Street Lighting | Heat Pump | Early | heat pump | 6,332 | 17% | 0.2 | 12 | \$4,298 | 81% | 0.2 |
| PECO | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Street Lighting | Heat Pump | Early | heat pump | 6,332 | 25% | 0.4 | 12 | \$5,883 | 81% | 0.2 |
| PECO | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Street Lighting | Heat Pump | New | heat pump | 5,997 | 13% | 0.2 | 12 | \$852 | 81% | 0.6 |
| PECO | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Street Lighting | Heat Pump | New | heat pump | 5,997 | 21% | 0.3 | 12 | \$2,437 | 81% | 0.3 |
| PECO | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Street Lighting | Heat Pump | ROB | heat pump | 5,997 | 13% | 0.2 | 12 | \$852 | 81% | 0.6 |
| PECO | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Street Lighting | Heat Pump | ROB | heat pump | 5,997 | 21% | 0.3 | 12 | \$2,437 | 81% | 0.3 |
| PECO | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Street Lighting | Heat Pump | Existing | building | 2,713 | 2.2% | 0.02 | 10 | \$9,632 | 81% | 0.0 |
| PECO | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Street Lighting | Heat Pump | New | building | 2,713 | 2.2% | 0.02 | 10 | \$9,632 | 81% | 0.0 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Street Lighting | Heat Pump | Existing | building | 2,713 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.2 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Street Lighting | Heat Pump | New | building | 2,713 | 2.1% | 0.02 | 11 | \$146 | 49% | 0.3 |
| PECO | Re-Commissioning (Existing Construction) | No Re-Commissioning | Street Lighting | Heat Pump | Existing | building | 2,713 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |
| PECO | Wall Insualtions (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Street Lighting | Heat Pump | Existing | building | 2,713 | 11% | 0.1 | 15 | \$3,285 | 26% | 0.1 |
| PECO | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Street Lighting | Heat Pump | New | building | 2,713 | 0.3% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| PECO | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Street Lighting | Heat Pump | Early | heat pump | 10,015 | 33% | 0.7 | 15 | \$35,347 | 28% | 0.1 |
| PECO | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Street Lighting | Heat Pump | New | heat pump | 9,429 | 29% | 0.6 | 15 | \$15,739 | 28% | 0.1 |
| PECO | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Street Lighting | Heat Pump | ROB | heat pump | 9,429 | 29% | 0.6 | 15 | \$15,739 | 28% | 0.1 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 299 | 9.6% | 0.01 | 13 | \$850 | 39% | 0.0 |
| PECO | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Street Lighting | High Bay Lighting | Early | Fixture | 299 | 9.5% | 0.01 | 13 | \$850 | 28% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---|---|-----------------|-------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 461 | 41% | 0.04 | 13 | \$850 | 36% | 0.2 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | New | Fixture | 227 | 9.6% | 0.00 | 13 | \$372 | 39% | 0.0 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Street Lighting | High Bay Lighting | New | Fixture | 211 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | New | Fixture | 350 | 41% | 0.03 | 13 | \$397 | 36% | 0.3 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 299 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 278 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 461 | 41% | 0.04 | 13 | \$397 | 36% | 0.3 |
| PECO | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 580 | 19% | 0.02 | 13 | \$851 | 38% | 0.1 |
| PECO | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Street Lighting | High Bay Lighting | Early | Fixture | 587 | 20% | 0.02 | 13 | \$851 | 38% | 0.1 |
| PECO | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 1,708 | 73% | 0.2 | 13 | \$851 | 38% | 1.0 |
| PECO | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | New | Fixture | 441 | 19% | 0.02 | 13 | \$372 | 38% | 0.2 |
| PECO | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | New | Fixture | 1,298 | 73% | 0.2 | 13 | \$383 | 38% | 1.7 |
| PECO | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 580 | 19% | 0.02 | 13 | \$372 | 38% | 0.2 |
| PECO | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 1,708 | 73% | 0.2 | 13 | \$383 | 38% | 2.2 |
| PECO | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 580 | 25% | 0.03 | 13 | \$554 | 29% | 0.2 |
| PECO | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Street Lighting | High Bay Lighting | Early | Fixture | 569 | 23% | 0.03 | 13 | \$554 | 28% | 0.2 |
| PECO | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 1,708 | 74% | 0.2 | 13 | \$554 | 36% | 1.6 |
| PECO | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | New | Fixture | 441 | 25% | 0.02 | 13 | \$75 | 29% | 1.0 |
| PECO | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | New | Fixture | 1,298 | 74% | 0.2 | 13 | \$86 | 36% | 7.7 |
| PECO | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 580 | 25% | 0.03 | 13 | \$75 | 29% | 1.3 |
| PECO | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 1,708 | 74% | 0.2 | 13 | \$86 | 36% | 10.2 |
| PECO | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Street Lighting | High Bay Lighting | Early | Fixture | 151 | 0.2% | 0.00 | 13 | \$835 | 38% | 0.0 |
| PECO | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 326 | 54% | 0.03 | 13 | \$835 | 38% | 0.1 |
| PECO | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | New | Fixture | 248 | 54% | 0.03 | 13 | \$382 | 38% | 0.2 |
| PECO | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 326 | 54% | 0.03 | 13 | \$382 | 38% | 0.3 |
| PECO | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 739 | 18% | 0.03 | 13 | \$487 | 25% | 0.2 |
| PECO | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Street Lighting | High Bay Lighting | Early | Fixture | 773 | 22% | 0.03 | 13 | \$487 | 28% | 0.2 |
| PECO | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 1,708 | 65% | 0.2 | 13 | \$487 | 36% | 1.6 |
| PECO | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | New | Fixture | 562 | 18% | 0.02 | 13 | \$16 | 25% | 4.3 |
| PECO | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | New | Fixture | 1,298 | 65% | 0.2 | 13 | \$18 | 36% | 31.3 |
| PECO | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 739 | 18% | 0.03 | 13 | \$16 | 25% | 5.7 |
| PECO | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 1,708 | 65% | 0.2 | 13 | \$18 | 36% | 41.2 |
| PECO | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 739 | 1.5% | 0.00 | 13 | \$557 | 19% | 0.0 |
| PECO | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Street Lighting | High Bay Lighting | Early | Fixture | 761 | 4.3% | 0.01 | 13 | \$557 | 19% | 0.0 |
| PECO | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 1,708 | 57% | 0.2 | 13 | \$557 | 19% | 1.2 |
| PECO | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | New | Fixture | 562 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| PECO | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | New | Fixture | 1,298 | 57% | 0.1 | 13 | \$88 | 19% | 5.8 |
| PECO | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 739 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| PECO | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 1,708 | 57% | 0.2 | 13 | \$88 | 19% | 7.6 |
| PECO | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 314 | 29% | 0.01 | 13 | \$492 | 71% | 0.1 |
| PECO | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 262 | 15% | 0.01 | 13 | \$492 | 95% | 0.1 |
| PECO | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 390 | 43% | 0.02 | 13 | \$492 | 95% | 0.2 |
| PECO | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 361 | 38% | 0.02 | 13 | \$492 | 95% | 0.2 |
| PECO | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | New | Fixture | 199 | 15% | 0.00 | 13 | \$25 | 95% | 0.8 |
| PECO | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | New | Fixture | 296 | 43% | 0.02 | 13 | \$51 | 95% | 1.6 |
| PECO | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 262 | 15% | 0.01 | 13 | \$25 | 95% | 1.0 |
| PECO | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 390 | 43% | 0.02 | 13 | \$51 | 95% | 2.1 |
| PECO | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Street Lighting | High Bay Lighting | Early | lamp | 87 | 16% | 0.00 | 12 | \$7.7 | 99% | 1.2 |
| PECO | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Street Lighting | High Bay Lighting | New | lamp | 52 | 13% | 0.00 | 12 | \$1.6 | 91% | 2.7 |
| PECO | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Street Lighting | High Bay Lighting | ROB | lamp | 84 | 13% | 0.00 | 12 | \$1.6 | 91% | 4.4 |
| PECO | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 1,748 | 23% | 0.08 | 13 | \$613 | 5% | 0.4 |
| PECO | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Street Lighting | High Bay Lighting | Early | Fixture | 1,373 | 1.6% | 0.00 | 13 | \$613 | 28% | 0.0 |
| PECO | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 3,417 | 60% | 0.4 | 13 | \$613 | 18% | 2.3 |
| PECO | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | New | Fixture | 1,329 | 23% | 0.06 | 13 | \$96 | 5% | 2.2 |
| PECO | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 1,748 | 23% | 0.08 | 13 | \$96 | 5% | 2.8 |
| PECO | Auto Off Time Switch | Lighting w/ No Controls | Street Lighting | High Bay Lighting | Existing | building | 828 | 24% | 0.2 | 8 | \$1,034 | 13% | 0.2 |
| PECO | Auto Off Time Switch | Lighting w/ No Controls | Street Lighting | High Bay Lighting | New | building | 828 | 6.9% | 0.07 | 8 | \$1,034 | 0% | 0.1 |
| PECO | Central Lighting Control System | Lighting w/ No Controls | Street Lighting | High Bay Lighting | Existing | building | 828 | 38% | 0.4 | 8 | \$1,034 | 13% | 0.3 |
| PECO | Central Lighting Control System | Lighting w/ No Controls | Street Lighting | High Bay Lighting | New | building | 828 | 14% | 0.1 | 8 | \$1,034 | 13% | 0.1 |
| PECO | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Street Lighting | High Bay Lighting | New | building | 828 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.0 |
| PECO | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Street Lighting | High Bay Lighting | New | building | 828 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |
| PECO | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Street Lighting | High Bay Lighting | New | building | 828 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| PECO | Indoor Daylight Sensors | Lighting w/ No Controls | Street Lighting | High Bay Lighting | Existing | building | 828 | 28% | 0.3 | 8 | \$5,088 | 13% | 0.1 |
| PECO | Indoor Daylight Sensors | Lighting w/ No Controls | Street Lighting | High Bay Lighting | New | building | 828 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| PECO | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 1,748 | 92% | 0.3 | 13 | \$1,916 | 95% | 0.6 |
| PECO | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 3,417 | 96% | 0.6 | 13 | \$1,916 | 95% | 1.2 |
| PECO | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | New | Fixture | 1,329 | 92% | 0.2 | 13 | \$1,468 | 95% | 0.6 |
| PECO | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | New | Fixture | 2,597 | 96% | 0.5 | 13 | \$1,149 | 95% | 1.5 |
| PECO | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 1,748 | 92% | 0.3 | 13 | \$1,468 | 95% | 0.8 |
| PECO | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 3,417 | 96% | 0.6 | 13 | \$1,149 | 95% | 2.0 |
| PECO | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 580 | 67% | 0.07 | 13 | \$960 | 95% | 0.3 |
| PECO | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 1,708 | 89% | 0.3 | 13 | \$960 | 95% | 1.1 |
| PECO | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 469 | 59% | 0.05 | 13 | \$960 | 95% | 0.2 |
| PECO | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | New | Fixture | 441 | 67% | 0.06 | 13 | \$480 | 95% | 0.4 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---|--|-----------------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | New | Fixture | 1,298 | 89% | 0.2 | 13 | \$491 | 95% | 1.6 |
| PECO | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Street Lighting | High Bay Lighting | New | Fixture | 356 | 59% | 0.04 | 13 | \$406 | 95% | 0.4 |
| PECO | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 580 | 67% | 0.07 | 13 | \$480 | 95% | 0.6 |
| PECO | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 1,708 | 89% | 0.3 | 13 | \$491 | 95% | 2.1 |
| PECO | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 469 | 59% | 0.05 | 13 | \$406 | 95% | 0.5 |
| PECO | Occupancy Sensor | Lighting w/ No Controls | Street Lighting | High Bay Lighting | Existing | building | 828 | 24% | 0.2 | 8 | \$1,558 | 11% | 0.1 |
| PECO | Occupancy Sensor | Lighting w/ No Controls | Street Lighting | High Bay Lighting | New | building | 828 | 6.9% | 0.07 | 8 | \$1,558 | 0% | 0.0 |
| PECO | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Street Lighting | High Bay Lighting | Existing | building | 828 | 28% | 0.3 | 8 | \$5,088 | 11% | 0.1 |
| PECO | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Street Lighting | High Bay Lighting | New | building | 828 | 4.0% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| PECO | Time Clock Control | Lighting w/ No Controls | Street Lighting | High Bay Lighting | Existing | building | 828 | 28% | 0.3 | 8 | \$1,034 | 13% | 0.3 |
| PECO | Time Clock Control | Lighting w/ No Controls | Street Lighting | High Bay Lighting | New | building | 828 | 4.1% | 0.04 | 8 | \$1,034 | 0% | 0.0 |
| PECO | Auto Off Time Switch | Lighting w/ No Controls | Street Lighting | Lin. Fluor. Lighting | Existing | building | 20,111 | 24% | 0.2 | 8 | \$1,034 | 13% | 1.7 |
| PECO | Auto Off Time Switch | Lighting w/ No Controls | Street Lighting | Lin. Fluor. Lighting | New | building | 20,111 | 7.0% | 0.07 | 8 | \$1,034 | 0% | 0.5 |
| PECO | Central Lighting Control System | Lighting w/ No Controls | Street Lighting | Lin. Fluor. Lighting | Existing | building | 20,111 | 38% | 0.4 | 8 | \$1,034 | 12% | 2.7 |
| PECO | Central Lighting Control System | Lighting w/ No Controls | Street Lighting | Lin. Fluor. Lighting | New | building | 20,111 | 14% | 0.1 | 8 | \$1,034 | 12% | 1.0 |
| PECO | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Street Lighting | Lin. Fluor. Lighting | New | building | 20,111 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.0 |
| PECO | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Street Lighting | Lin. Fluor. Lighting | New | building | 20,111 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |
| PECO | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Street Lighting | Lin. Fluor. Lighting | New | building | 20,111 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| PECO | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Street Lighting | Lin. Fluor. Lighting | Early | Lamp | 175 | 38% | 0.01 | 12 | \$7.3 | 94% | 5.9 |
| PECO | Indoor Daylight Sensors | Lighting w/ No Controls | Street Lighting | Lin. Fluor. Lighting | Existing | building | 20,111 | 28% | 0.3 | 8 | \$5,088 | 13% | 0.4 |
| PECO | Indoor Daylight Sensors | Lighting w/ No Controls | Street Lighting | Lin. Fluor. Lighting | New | building | 20,111 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.1 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | Early | Lamp | 38 | 19% | 0.00 | 15 | \$35 | 94% | 0.2 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 40W T12 Lamp, Magnetic Ballast | Street Lighting | Lin. Fluor. Lighting | Early | Lamp | 83 | 63% | 0.01 | 15 | \$35 | 94% | 1.1 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | Early | Lamp | 46 | 34% | 0.00 | 15 | \$35 | 94% | 0.3 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | Early | Lamp | 45 | 32% | 0.00 | 15 | \$35 | 94% | 0.3 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | New | Lamp | 29 | 19% | 0.00 | 15 | \$28 | 94% | 0.1 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | New | Lamp | 34 | 32% | 0.00 | 15 | \$29 | 94% | 0.3 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | New | Lamp | 35 | 34% | 0.00 | 15 | \$22 | 94% | 0.4 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | New | Lamp | 34 | 32% | 0.00 | 15 | \$29 | 94% | 0.3 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | ROB | Lamp | 38 | 19% | 0.00 | 15 | \$28 | 94% | 0.2 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | ROB | Lamp | 45 | 32% | 0.00 | 15 | \$29 | 94% | 0.4 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | ROB | Lamp | 46 | 34% | 0.00 | 15 | \$22 | 94% | 0.6 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | ROB | Lamp | 45 | 32% | 0.00 | 15 | \$29 | 94% | 0.4 |
| PECO | Occupancy Sensor | Lighting w/ No Controls | Street Lighting | Lin. Fluor. Lighting | Existing | building | 20,111 | 24% | 0.2 | 8 | \$1,558 | 12% | 1.1 |
| PECO | Occupancy Sensor | Lighting w/ No Controls | Street Lighting | Lin. Fluor. Lighting | New | building | 20,111 | 7.0% | 0.07 | 8 | \$1,558 | 0% | 0.3 |
| PECO | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Street Lighting | Lin. Fluor. Lighting | Existing | building | 20,111 | 28% | 0.3 | 8 | \$5,088 | 11% | 0.4 |
| PECO | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Street Lighting | Lin. Fluor. Lighting | New | building | 20,111 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.1 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 40W T12 w/ Magnetic Ballast | Street Lighting | Lin. Fluor. Lighting | Early | Lamp | 175 | 54% | 0.02 | 12 | \$9.1 | 94% | 6.8 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | Early | Lamp | 112 | 28% | 0.01 | 12 | \$9.1 | 24% | 2.3 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | Early | Lamp | 108 | 26% | 0.01 | 12 | \$9.1 | 94% | 2.0 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | New | Lamp | 82 | 26% | 0.00 | 12 | \$2.5 | 94% | 5.5 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | New | Lamp | 82 | 26% | 0.00 | 12 | \$2.5 | 94% | 5.5 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | New | Lamp | 85 | 28% | 0.00 | 12 | \$2.5 | 24% | 6.2 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | New | Lamp | 82 | 26% | 0.00 | 12 | \$2.5 | 94% | 5.5 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | ROB | Lamp | 108 | 26% | 0.01 | 12 | \$2.5 | 94% | 7.2 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | ROB | Lamp | 108 | 26% | 0.01 | 12 | \$2.5 | 94% | 7.2 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | ROB | Lamp | 112 | 28% | 0.01 | 12 | \$2.5 | 24% | 8.1 |
| PECO | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | ROB | Lamp | 108 | 26% | 0.01 | 12 | \$2.5 | 94% | 7.2 |
| PECO | T8 Lamp (any length) Electronic Ballast | Standard T12 lamp (any length) | Street Lighting | Lin. Fluor. Lighting | Early | Lamp | 206 | 42% | 0.02 | 12 | \$14 | 94% | 4.0 |
| PECO | Time Clock Control | Lighting w/ No Controls | Street Lighting | Lin. Fluor. Lighting | Existing | building | 20,111 | 28% | 0.3 | 8 | \$1,034 | 14% | 2.0 |
| PECO | Time Clock Control | Lighting w/ No Controls | Street Lighting | Lin. Fluor. Lighting | New | building | 20,111 | 4.1% | 0.04 | 8 | \$1,034 | 0% | 0.3 |
| PECO | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | Early | motor | 3,488 | 3.6% | 0.00 | 15 | \$374 | 76% | 0.2 |
| PECO | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | Early | motor | 3,488 | 3.6% | 0.00 | 15 | \$374 | 76% | 0.2 |
| PECO | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | Early | motor | 3,488 | 3.6% | 0.01 | 15 | \$374 | 76% | 0.2 |
| PECO | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | Early | motor | 3,488 | 3.6% | 0.00 | 15 | \$374 | 76% | 0.2 |
| PECO | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | New | motor | 3,382 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| PECO | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | New | motor | 3,382 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| PECO | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | New | motor | 3,382 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| PECO | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | New | motor | 3,382 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| PECO | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | ROB | motor | 3,382 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| PECO | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | ROB | motor | 3,382 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---|--|-----------------|---------|---------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | Early | motor | 184,993 | 1.8% | 0.4 | 15 | \$4,430 | 70% | 0.5 |
| PECO | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | Early | motor | 184,993 | 1.8% | 0.10 | 15 | \$4,430 | 70% | 0.4 |
| PECO | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | New | motor | 182,621 | 0.5% | 0.03 | 15 | \$431 | 70% | 1.1 |
| PECO | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | New | motor | 182,621 | 0.5% | 0.03 | 15 | \$431 | 70% | 1.1 |
| PECO | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | New | motor | 182,621 | 0.5% | 0.03 | 15 | \$431 | 70% | 1.1 |
| PECO | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | New | motor | 182,621 | 0.5% | 0.1 | 15 | \$431 | 70% | 1.5 |
| PECO | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | New | motor | 182,621 | 0.5% | 0.03 | 15 | \$431 | 70% | 1.1 |
| PECO | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | ROB | motor | 182,621 | 0.5% | 0.03 | 15 | \$431 | 70% | 1.1 |
| PECO | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | ROB | motor | 182,621 | 0.5% | 0.03 | 15 | \$431 | 70% | 1.1 |
| PECO | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | ROB | motor | 182,621 | 0.5% | 0.1 | 15 | \$431 | 70% | 1.5 |
| PECO | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | ROB | motor | 182,621 | 0.5% | 0.03 | 15 | \$431 | 70% | 1.1 |
| PECO | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | ROB | motor | 182,621 | 0.5% | 0.03 | 15 | \$431 | 70% | 1.1 |
| PECO | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | Early | motor | 24,415 | 2.9% | 0.02 | 15 | \$802 | 83% | 0.5 |
| PECO | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | Early | motor | 24,415 | 2.9% | 0.02 | 15 | \$802 | 83% | 0.5 |
| PECO | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | Early | motor | 24,415 | 2.9% | 0.02 | 15 | \$802 | 83% | 0.5 |
| PECO | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | Early | motor | 24,415 | 2.9% | 0.08 | 15 | \$802 | 83% | 0.6 |
| PECO | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | Early | motor | 24,415 | 2.9% | 0.02 | 15 | \$802 | 83% | 0.5 |
| PECO | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | New | motor | 23,831 | 0.5% | 0.00 | 15 | \$123 | 83% | 0.5 |
| PECO | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | New | motor | 23,831 | 0.5% | 0.00 | 15 | \$123 | 83% | 0.5 |
| PECO | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | New | motor | 23,831 | 0.5% | 0.01 | 15 | \$123 | 83% | 0.7 |
| PECO | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | New | motor | 23,831 | 0.5% | 0.00 | 15 | \$123 | 83% | 0.5 |
| PECO | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | ROB | motor | 23,831 | 0.5% | 0.00 | 15 | \$123 | 83% | 0.5 |
| PECO | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | ROB | motor | 23,831 | 0.5% | 0.00 | 15 | \$123 | 83% | 0.5 |
| PECO | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | ROB | motor | 23,831 | 0.5% | 0.00 | 15 | \$123 | 83% | 0.5 |
| PECO | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | ROB | motor | 23,831 | 0.5% | 0.01 | 15 | \$123 | 83% | 0.7 |
| PECO | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | ROB | motor | 23,831 | 0.5% | 0.00 | 15 | \$123 | 83% | 0.5 |
| PECO | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | Early | motor | 230,173 | 1.3% | 0.09 | 15 | \$3,955 | 61% | 0.4 |
| PECO | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | Early | motor | 230,173 | 1.3% | 0.09 | 15 | \$3,955 | 61% | 0.4 |
| PECO | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | Early | motor | 230,173 | 1.3% | 0.09 | 15 | \$3,955 | 61% | 0.4 |
| PECO | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | Early | motor | 230,173 | 1.3% | 0.3 | 15 | \$3,955 | 61% | 0.5 |
| PECO | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | Early | motor | 230,173 | 1.3% | 0.09 | 15 | \$3,955 | 61% | 0.4 |
| PECO | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | New | motor | 228,276 | 0.5% | 0.03 | 15 | \$554 | 61% | 1.1 |
| PECO | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | New | motor | 228,276 | 0.5% | 0.03 | 15 | \$554 | 61% | 1.1 |
| PECO | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | New | motor | 228,276 | 0.5% | 0.03 | 15 | \$554 | 61% | 1.1 |
| PECO | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | New | motor | 228,276 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.4 |
| PECO | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | New | motor | 228,276 | 0.5% | 0.03 | 15 | \$554 | 61% | 1.1 |
| PECO | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | ROB | motor | 228,276 | 0.5% | 0.03 | 15 | \$554 | 61% | 1.1 |
| PECO | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | ROB | motor | 228,276 | 0.5% | 0.03 | 15 | \$554 | 61% | 1.1 |
| PECO | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | ROB | motor | 228,276 | 0.5% | 0.03 | 15 | \$554 | 61% | 1.1 |
| PECO | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | ROB | motor | 228,276 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.4 |
| PECO | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Street Lighting | Motors | ROB | motor | 228,276 | 0.5% | 0.03 | 15 | \$554 | 61% | 1.1 |
| PECO | Downsizing motor during retrofit | Larger hp standard motor | Street Lighting | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 21.9 |
| PECO | Downsizing motor during retrofit | Larger hp standard motor | Street Lighting | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 22.3 |
| PECO | Downsizing motor during retrofit | Larger hp standard motor | Street Lighting | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 22.6 |
| PECO | Downsizing motor during retrofit | Larger hp standard motor | Street Lighting | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 25.2 |
| PECO | Downsizing motor during retrofit | Larger hp standard motor | Street Lighting | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 23.5 |
| PECO | Downsizing motor during retrofit | Larger hp standard motor | Street Lighting | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 21.7 |
| PECO | Downsizing motor during retrofit | Larger hp standard motor | Street Lighting | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 22.2 |
| PECO | Downsizing motor during retrofit | Larger hp standard motor | Street Lighting | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 22.7 |
| PECO | Downsizing motor during retrofit | Larger hp standard motor | Street Lighting | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 25.5 |
| PECO | Downsizing motor during retrofit | Larger hp standard motor | Street Lighting | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 23.3 |
| PECO | Escalator Motor Controller | Constant power control | Street Lighting | Motors | New | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 45% | 5.8 |
| PECO | Escalator Motor Controller | Constant power control | Street Lighting | Motors | ROB | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 45% | 5.8 |
| PECO | Variable Speed Drive Control, 15HP | Existing Motors w/out VSD Drive | Street Lighting | Motors | Early | motor | 47,662 | 70% | 3.7 | 15 | \$731 | 86% | 30.4 |
| PECO | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Street Lighting | Motors | New | motor | 46,637 | 72% | 3.7 | 15 | \$731 | 86% | 30.5 |
| PECO | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Street Lighting | Motors | ROB | motor | 46,637 | 72% | 3.7 | 15 | \$731 | 86% | 30.5 |
| PECO | Variable Speed Drive Control, 40HP | Existing Motors w/out VSD Drive | Street Lighting | Motors | Early | motor | 124,365 | 71% | 9.7 | 15 | \$4,666 | 86% | 12.6 |
| PECO | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Street Lighting | Motors | New | motor | 122,912 | 72% | 9.7 | 15 | \$4,666 | 86% | 12.6 |
| PECO | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Street Lighting | Motors | ROB | motor | 122,912 | 72% | 9.7 | 15 | \$4,666 | 86% | 12.6 |
| PECO | Variable Speed Drive Control, 5HP | Existing Motors w/out VFD Drive | Street Lighting | Motors | Early | motor | 16,523 | 70% | 1.3 | 15 | \$2,243 | 86% | 3.4 |
| PECO | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Street Lighting | Motors | New | motor | 16,154 | 72% | 1.3 | 15 | \$2,243 | 86% | 3.4 |
| PECO | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Street Lighting | Motors | ROB | motor | 16,154 | 72% | 1.3 | 15 | \$2,243 | 86% | 3.4 |
| PECO | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Street Lighting | Motors | Early | motor | 4,943 | 23% | 0.1 | 15 | \$268 | 13% | 2.6 |
| PECO | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Street Lighting | Motors | New | motor | 4,943 | 23% | 0.1 | 15 | \$268 | 13% | 2.6 |
| PECO | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Street Lighting | Motors | ROB | motor | 4,943 | 23% | 0.1 | 15 | \$268 | 13% | 2.6 |
| PECO | VFD on Chilled Water Pump | Motor w/out VFD Drive | Street Lighting | Motors | Early | motor | 18,724 | 54% | 1.0 | 15 | \$2,903 | 86% | 2.3 |
| PECO | VFD on Chilled Water Pump | Motor w/out VFD Drive | Street Lighting | Motors | New | motor | 18,373 | 55% | 1.0 | 15 | \$2,843 | 86% | 2.3 |
| PECO | VFD on Chilled Water Pump | Motor w/out VFD Drive | Street Lighting | Motors | ROB | motor | 18,373 | 55% | 1.0 | 15 | \$2,843 | 86% | 2.3 |
| PECO | VFD on Condenser Water Pump | Motor w/out VFD Drive | Street Lighting | Motors | Early | motor | 18,641 | 32% | 0.6 | 15 | \$2,903 | 86% | 1.3 |
| PECO | VFD on Condenser Water Pump | Motor w/out VFD Drive | Street Lighting | Motors | New | motor | 18,292 | 33% | 0.6 | 15 | \$2,843 | 86% | 1.4 |
| PECO | VFD on Condenser Water Pump | Motor w/out VFD Drive | Street Lighting | Motors | ROB | motor | 18,292 | 33% | 0.6 | 15 | \$2,843 | 86% | 1.4 |
| PECO | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Street Lighting | Motors | Early | motor | 24,733 | 56% | 1.4 | 15 | \$2,903 | 86% | 3.1 |
| PECO | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Street Lighting | Motors | New | motor | 24,271 | 57% | 1.4 | 15 | \$2,843 | 86% | 3.1 |
| PECO | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Street Lighting | Motors | ROB | motor | 24,271 | 57% | 1.4 | 15 | \$2,843 | 86% | 3.1 |
| PECO | VFD on HVAC Fan | Motor w/out VFD | Street Lighting | Motors | Early | motor | 18,724 | 70% | 1.5 | 15 | \$2,903 | 86% | 3.0 |
| PECO | VFD on HVAC Fan | Motor w/out VFD | Street Lighting | Motors | New | motor | 18,373 | 72% | 1.5 | 15 | \$2,843 | 86% | 3.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---|--|-----------------|---------------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | VFD on HVAC Fan | Motor w/out VFD | Street Lighting | Motors | ROB | motor | 18,373 | 72% | 1.5 | 15 | \$2,843 | 86% | 3.1 |
| PECO | Variable Speed Drives on Process Equipment | Constant speed control | Street Lighting | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 11.8 |
| PECO | Variable Speed Drives on Process Equipment | Constant speed control | Street Lighting | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 11.8 |
| PECO | Auto Off Time Switch | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | Existing | building | 8,290 | 24% | 0.2 | 8 | \$1,034 | 13% | 0.8 |
| PECO | Auto Off Time Switch | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | New | building | 8,290 | 7.0% | 0.07 | 8 | \$1,034 | 0% | 0.2 |
| PECO | Central Lighting Control System | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | Existing | building | 8,290 | 38% | 0.4 | 8 | \$1,034 | 13% | 1.3 |
| PECO | Central Lighting Control System | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | New | building | 8,290 | 14% | 0.1 | 8 | \$1,034 | 13% | 0.5 |
| PECO | Cold Cathode Screw-In Bulb | 40W Incandescent Bulb | Street Lighting | Other Int. Lighting | Early | lamp | 87 | 87% | 0.01 | 15 | \$30 | 14% | 1.9 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | Early | lamp | 62 | 81% | 0.01 | 15 | \$30 | 11% | 1.3 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | New | lamp | 47 | 81% | 0.01 | 15 | \$21 | 14% | 1.4 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | New | lamp | 47 | 81% | 0.01 | 15 | \$23 | 14% | 1.3 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | New | lamp | 47 | 81% | 0.01 | 15 | \$22 | 11% | 1.3 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | ROB | lamp | 62 | 81% | 0.01 | 15 | \$21 | 14% | 1.8 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | ROB | lamp | 62 | 81% | 0.01 | 15 | \$23 | 14% | 1.7 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | ROB | lamp | 62 | 81% | 0.01 | 15 | \$22 | 11% | 1.7 |
| PECO | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Street Lighting | Other Int. Lighting | Early | lamp | 87 | 75% | 0.01 | 7 | \$73 | 18% | 0.4 |
| PECO | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Street Lighting | Other Int. Lighting | New | fixture | 95 | 65% | 0.01 | 13 | \$29 | 21% | 1.4 |
| PECO | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | New | lamp | 47 | 65% | 0.01 | 7 | \$29 | 21% | 0.4 |
| PECO | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Street Lighting | Other Int. Lighting | ROB | fixture | 125 | 65% | 0.01 | 13 | \$29 | 18% | 1.9 |
| PECO | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | ROB | lamp | 62 | 65% | 0.01 | 7 | \$29 | 18% | 0.6 |
| PECO | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Street Lighting | Other Int. Lighting | Early | lamp | 87 | 75% | 0.01 | 7 | \$3.2 | 20% | 8.2 |
| PECO | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | New | lamp | 47 | 65% | 0.01 | 7 | \$1.8 | 20% | 7.0 |
| PECO | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | ROB | lamp | 62 | 65% | 0.01 | 7 | \$1.8 | 20% | 9.2 |
| PECO | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | ROB | lamp | 62 | 65% | 0.01 | 7 | \$1.8 | 20% | 9.2 |
| PECO | Exit Sign Retrofit: CFL replacing Incandescent | One 23W Single Sided Incandescent Exit Sign | Street Lighting | Other Int. Lighting | Early | exit sign | 139 | 42% | 0.01 | 15 | \$48 | 22% | 0.8 |
| PECO | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Street Lighting | Other Int. Lighting | New | building | 8,290 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.0 |
| PECO | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Street Lighting | Other Int. Lighting | New | building | 8,290 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |
| PECO | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Street Lighting | Other Int. Lighting | New | building | 8,290 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| PECO | Indoor Daylight Sensors | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | Existing | building | 8,290 | 28% | 0.3 | 8 | \$5,088 | 13% | 0.2 |
| PECO | Indoor Daylight Sensors | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | New | building | 8,290 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| PECO | LED Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Street Lighting | Other Int. Lighting | Early | sign | 153 | 87% | 0.02 | 15 | \$48 | 16% | 1.9 |
| PECO | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Street Lighting | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 2.1 |
| PECO | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Street Lighting | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 2.1 |
| PECO | LED Task Lighting/Screw-In | 1 15W CFL bulb | Street Lighting | Other Int. Lighting | Early | lamp | 22 | 33% | 0.00 | 15 | \$9.6 | 20% | 0.6 |
| PECO | LED Task Lighting/Screw-In | 1 60W Incandescent Bulb | Street Lighting | Other Int. Lighting | Early | lamp | 89 | 83% | 0.01 | 15 | \$9.6 | 20% | 5.7 |
| PECO | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Street Lighting | Other Int. Lighting | New | lamp | 49 | 77% | 0.01 | 15 | \$7.9 | 20% | 3.5 |
| PECO | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Street Lighting | Other Int. Lighting | New | lamp | 49 | 77% | 0.01 | 15 | \$7.9 | 20% | 3.5 |
| PECO | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Street Lighting | Other Int. Lighting | ROB | lamp | 64 | 77% | 0.01 | 15 | \$7.9 | 20% | 4.6 |
| PECO | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Street Lighting | Other Int. Lighting | ROB | lamp | 64 | 77% | 0.01 | 15 | \$7.9 | 20% | 4.6 |
| PECO | Occupancy Sensor | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | Existing | building | 8,290 | 24% | 0.2 | 8 | \$1,558 | 11% | 0.5 |
| PECO | Occupancy Sensor | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | New | building | 8,290 | 7.0% | 0.07 | 8 | \$1,558 | 0% | 0.2 |
| PECO | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | Existing | building | 8,290 | 28% | 0.3 | 8 | \$5,088 | 11% | 0.2 |
| PECO | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | New | building | 8,290 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| PECO | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Street Lighting | Other Int. Lighting | Early | exit sign | 139 | 100% | 0.02 | 15 | \$173 | 26% | 0.6 |
| PECO | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Street Lighting | Other Int. Lighting | New | exit sign | 80 | 100% | 0.01 | 15 | \$148 | 31% | 0.4 |
| PECO | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Street Lighting | Other Int. Lighting | ROB | exit sign | 80 | 100% | 0.01 | 15 | \$148 | 26% | 0.4 |
| PECO | Time Clock Control | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | Existing | building | 8,290 | 28% | 0.3 | 8 | \$1,034 | 13% | 0.9 |
| PECO | Time Clock Control | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | New | building | 8,290 | 4.1% | 0.04 | 8 | \$1,034 | 0% | 0.1 |
| PECO | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Street Lighting | Plug Load | Existing | building | 2,913 | 46% | 0.5 | 5 | \$189 | 4% | 2.6 |
| PECO | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Street Lighting | Plug Load | New | building | 1,422 | 46% | 0.5 | 5 | \$189 | 4% | 1.8 |
| PECO | Data Center - Server/Storage Consolidation | No Consolidation | Street Lighting | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PECO | Data Center - Server/Storage Consolidation | No Consolidation | Street Lighting | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PECO | Data Center - Server/Storage Virtualization | No Virtualization | Street Lighting | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PECO | Data Center - Server/Storage Virtualization | No Virtualization | Street Lighting | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PECO | Energy Star - Scanners | Std Scanner | Street Lighting | Plug Load | New | measure | 68 | 3.8% | 0.04 | 4 | \$130 | 7% | 0.1 |
| PECO | Energy Star - Scanners | Std Scanner | Street Lighting | Plug Load | ROB | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| PECO | Energy Star Dishwasher | Existing Dishwasher units | Street Lighting | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,580 | 0% | 1.1 |
| PECO | Energy Star Dishwasher | Standard Dishwasher unit | Street Lighting | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 0% | 3.6 |
| PECO | Energy Star Dishwasher | Standard Dishwasher unit | Street Lighting | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 0% | 3.6 |
| PECO | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Street Lighting | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 17% | 0.2 |
| PECO | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Street Lighting | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.3 |
| PECO | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Street Lighting | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 2.3 |
| PECO | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Street Lighting | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 9% | 0.8 |
| PECO | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Street Lighting | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.8 |
| PECO | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Street Lighting | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.8 |
| PECO | ENERGY STAR® Copiers | 10% Less Efficient Copier | Street Lighting | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 80% | 0.0 |
| PECO | ENERGY STAR® Copiers | One Conventional Copier | Street Lighting | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 80% | 0.0 |
| PECO | ENERGY STAR® Copiers | One Conventional Copier | Street Lighting | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 80% | 0.0 |
| PECO | ENERGY STAR® desktop | Standard computer | Street Lighting | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 87% | 0.1 |
| PECO | ENERGY STAR® desktop | Standard computer | Street Lighting | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 87% | 2.4 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---|---|-----------------|---------------|----------|-------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | ENERGY STAR® desktop | Standard computer | Street Lighting | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 87% | 2.4 |
| PECO | ENERGY STAR® Fax | 10% Less Efficient Fax | Street Lighting | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 89% | 0.0 |
| PECO | ENERGY STAR® Fax | One Conventional Fax | Street Lighting | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 89% | 0.2 |
| PECO | ENERGY STAR® Fax | One Conventional Fax | Street Lighting | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 89% | 0.2 |
| PECO | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Street Lighting | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 89% | 0.0 |
| PECO | ENERGY STAR® Monitors | One Conventional Monitor | Street Lighting | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 89% | 0.0 |
| PECO | ENERGY STAR® Monitors | One Conventional Monitor | Street Lighting | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 89% | 0.0 |
| PECO | ENERGY STAR® Printers | 10% Less Efficient Printer | Street Lighting | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 89% | 0.0 |
| PECO | ENERGY STAR® Printers | One Conventional Printer | Street Lighting | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 89% | 0.4 |
| PECO | ENERGY STAR® Printers | One Conventional Printer | Street Lighting | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$130 | 89% | 0.4 |
| PECO | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Street Lighting | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 87% | 0.1 |
| PECO | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Street Lighting | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 87% | 0.8 |
| PECO | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Street Lighting | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 87% | 0.8 |
| PECO | ENERGY STAR® Televisions | 10% Less Efficient Television | Street Lighting | Plug Load | Early | Unit | 111 | 38% | 0.01 | 6 | \$672 | 85% | 0.0 |
| PECO | ENERGY STAR® Televisions | One Conventional Television | Street Lighting | Plug Load | New | Unit | 101 | 32% | 0.01 | 6 | \$206 | 85% | 0.1 |
| PECO | ENERGY STAR® Televisions | One Conventional Television | Street Lighting | Plug Load | ROB | Unit | 101 | 32% | 0.01 | 6 | \$206 | 85% | 0.1 |
| PECO | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Street Lighting | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 81% | 0.3 |
| PECO | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Street Lighting | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 81% | 0.7 |
| PECO | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Street Lighting | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 81% | 0.7 |
| PECO | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Street Lighting | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.3 |
| PECO | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Street Lighting | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.3 |
| PECO | Network PC Power Management | No PC Power Management | Street Lighting | Plug Load | Existing | building | 425 | 33% | 0.3 | 5 | \$12 | 38% | 45.2 |
| PECO | Network PC Power Management | No PC Power Management | Street Lighting | Plug Load | New | building | 425 | 33% | 0.3 | 5 | \$12 | 38% | 45.2 |
| PECO | Smart Strip Plug Outlets | Standard plug strip/outlet | Street Lighting | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.4 |
| PECO | Smart Strip Plug Outlets | Standard plug strip/outlet | Street Lighting | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.4 |
| PECO | Smart Strip Plug Outlets | Standard plug strip/outlet | Street Lighting | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PECO | Smart Strip Plug Outlets | Standard plug strip/outlet | Street Lighting | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PECO | Smart Strip Plug Outlets | Standard plug strip/outlet | Street Lighting | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PECO | Smart Strip Plug Outlets | Standard plug strip/outlet | Street Lighting | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PECO | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Street Lighting | Plug Load | Existing | building | 2,913 | 46% | 0.5 | 5 | \$180 | 3% | 2.7 |
| PECO | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Street Lighting | Plug Load | New | building | 1,422 | 46% | 0.5 | 5 | \$180 | 3% | 1.9 |
| PECO | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Street Lighting | Refrigeration | Existing | building | 204 | 2.1% | 0.02 | 12 | \$70 | 11% | 0.3 |
| PECO | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Street Lighting | Refrigeration | New | building | 204 | 2.1% | 0.02 | 12 | \$70 | 11% | 0.3 |
| PECO | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Street Lighting | Refrigeration | Existing | building | 204 | 7.0% | 0.07 | 12 | \$70 | 11% | 1.0 |
| PECO | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Street Lighting | Refrigeration | New | building | 204 | 7.0% | 0.07 | 12 | \$70 | 11% | 1.0 |
| PECO | Auto Closer on Refrigerator Door | Door w/out Autocloser | Street Lighting | Refrigeration | Existing | building | 1,136 | 48% | 0.5 | 8 | \$747 | 40% | 0.7 |
| PECO | Auto Closer on Refrigerator Door | Door w/out Autocloser | Street Lighting | Refrigeration | Existing | building | 3,850 | 17% | 0.2 | 8 | \$476 | 40% | 0.7 |
| PECO | Auto Closer on Refrigerator Door | Door w/out Autocloser | Street Lighting | Refrigeration | New | building | 1,136 | 48% | 0.5 | 8 | \$747 | 40% | 0.7 |
| PECO | Auto Closer on Refrigerator Door | Door w/out Autocloser | Street Lighting | Refrigeration | New | building | 3,850 | 17% | 0.2 | 8 | \$476 | 40% | 0.7 |
| PECO | Demand Hot Gas Defrost | Base Refrigeration System | Street Lighting | Refrigeration | Existing | building | 204 | 3.0% | 0.03 | 10 | \$1,266 | 0% | 0.0 |
| PECO | Demand Hot Gas Defrost | Base Refrigeration System | Street Lighting | Refrigeration | New | building | 204 | 3.0% | 0.03 | 10 | \$1,266 | 0% | 0.0 |
| PECO | Door Gasket- Freezer | Door w/out Gasket | Street Lighting | Refrigeration | Existing | building | 1,136 | 26% | 0.3 | 4 | \$77 | 29% | 1.9 |
| PECO | Door Gasket- Freezer | Door w/out Gasket | Street Lighting | Refrigeration | New | building | 1,136 | 26% | 0.3 | 4 | \$77 | 29% | 1.9 |
| PECO | Door Gasket- Refrigerator | Door w/out Gasket | Street Lighting | Refrigeration | Existing | building | 3,850 | 5.4% | 0.05 | 4 | \$66 | 45% | 0.8 |
| PECO | Door Gasket- Refrigerator | Door w/out Gasket | Street Lighting | Refrigeration | New | building | 3,850 | 5.4% | 0.05 | 4 | \$66 | 45% | 0.8 |
| PECO | eCube | Refrigeration unit w/out eCube | Street Lighting | Refrigeration | Existing | building | 3,850 | 15% | 0.2 | 15 | \$504 | 57% | 0.9 |
| PECO | eCube | Refrigeration unit w/out eCube | Street Lighting | Refrigeration | New | building | 3,850 | 15% | 0.2 | 15 | \$504 | 57% | 0.9 |
| PECO | Efficient compressor motor | Base Refrigeration System - Grocery | Street Lighting | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| PECO | Efficient compressor motor | Base Refrigeration System - Grocery | Street Lighting | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| PECO | Efficient compressor motor | Base Refrigeration System - Grocery | Street Lighting | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| PECO | Efficient compressor motor | Base Refrigeration System - Grocery | Street Lighting | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| PECO | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Street Lighting | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.6 |
| PECO | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Street Lighting | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| PECO | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Street Lighting | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| PECO | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Street Lighting | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.3 |
| PECO | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Street Lighting | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.8 |
| PECO | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Street Lighting | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.8 |
| PECO | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Street Lighting | Refrigeration | Existing | building | 3,850 | 3.1% | 0.03 | 10 | \$369 | 77% | 0.2 |
| PECO | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Street Lighting | Refrigeration | New | building | 3,850 | 3.1% | 0.03 | 10 | \$369 | 77% | 0.2 |
| PECO | Floating head pressure controller | System w/out FHPC | Street Lighting | Refrigeration | Existing | building | 1,136 | 20% | 0.05 | 15 | \$8,682 | 41% | 0.0 |
| PECO | Floating head pressure controller | System w/out FHPC | Street Lighting | Refrigeration | Existing | building | 204 | 47% | 0.02 | 15 | \$8,682 | 41% | 0.0 |
| PECO | Floating head pressure controller | System w/out FHPC | Street Lighting | Refrigeration | Existing | building | 3,850 | 2.1% | 0.02 | 15 | \$8,682 | 41% | 0.0 |
| PECO | Floating head pressure controller | System w/out FHPC | Street Lighting | Refrigeration | New | building | 1,136 | 20% | 0.05 | 15 | \$8,682 | 41% | 0.0 |
| PECO | Floating head pressure controller | System w/out FHPC | Street Lighting | Refrigeration | New | building | 204 | 47% | 0.02 | 15 | \$8,682 | 41% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|--|---|-----------------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Floating head pressure controller | System w/out FHP | Street Lighting | Refrigeration | New | building | 3,850 | 2.1% | 0.02 | 15 | \$8,682 | 41% | 0.0 |
| PECO | High Efficiency Commercial Freezer | Std. Commercial Freezer | Street Lighting | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 86% | 0.3 |
| PECO | High Efficiency Commercial Freezer | Std. Commercial Freezer | Street Lighting | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 4.2 |
| PECO | High Efficiency Commercial Freezer | Std. Commercial Freezer | Street Lighting | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 4.2 |
| PECO | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Street Lighting | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 2% | 0.1 |
| PECO | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Street Lighting | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.9 |
| PECO | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Street Lighting | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.9 |
| PECO | High Efficiency Ice Maker | Exisiting Standard Efficiency Ice Maker in Pennsylvania | Street Lighting | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 73% | 0.2 |
| PECO | High Efficiency Ice Maker | Standard code minimum Ice Maker | Street Lighting | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| PECO | High Efficiency Ice Maker | Standard code minimum Ice Maker | Street Lighting | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| PECO | High Efficiency Ice Making Head | Standard Ice Making Head | Street Lighting | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 4.1 |
| PECO | High Efficiency Ice Making Head | Standard Ice Making Head | Street Lighting | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 4.1 |
| PECO | High R-Value Glass Doors | Base Refrigeration System - Grocery | Street Lighting | Refrigeration | Existing | building | 204 | 0.7% | 0.01 | 10 | \$7.9 | 0% | 0.8 |
| PECO | High R-Value Glass Doors | Base Refrigeration System - Grocery | Street Lighting | Refrigeration | New | building | 204 | 0.7% | 0.01 | 10 | \$7.9 | 0% | 0.8 |
| PECO | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Street Lighting | Refrigeration | Early | Fixture | 373 | 56% | 0.01 | 8 | \$448 | 47% | 0.2 |
| PECO | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Street Lighting | Refrigeration | New | Fixture | 291 | 44% | 0.00 | 8 | \$139 | 47% | 0.3 |
| PECO | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Street Lighting | Refrigeration | ROB | Fixture | 291 | 44% | 0.00 | 8 | \$139 | 47% | 0.3 |
| PECO | No-heat glass doors | Standard low-temp reach-in | Street Lighting | Refrigeration | Existing | building | 204 | 20% | 0.2 | 10 | \$725 | 8% | 0.2 |
| PECO | No-heat glass doors | Standard low-temp reach-in | Street Lighting | Refrigeration | New | building | 204 | 20% | 0.2 | 10 | \$725 | 8% | 0.2 |
| PECO | Quick acting freezer doors | Std. Freezer Doors | Street Lighting | Refrigeration | Existing | building | 1,136 | 13% | 0.1 | 10 | \$427 | 56% | 0.4 |
| PECO | Quick acting freezer doors | Std. Freezer Doors | Street Lighting | Refrigeration | New | building | 1,136 | 13% | 0.1 | 10 | \$427 | 56% | 0.4 |
| PECO | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Street Lighting | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 30% | 0.4 |
| PECO | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Street Lighting | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.6 |
| PECO | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Street Lighting | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.7 |
| PECO | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 30% | 1.7 |
| PECO | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 3.0 |
| PECO | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 3.0 |
| PECO | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 30% | 1.7 |
| PECO | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 4.0 |
| PECO | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 4.0 |
| PECO | Refrigeration Commissioning | Non-commissioned refrigeration system | Street Lighting | Refrigeration | Existing | building | 5,378 | 9.5% | 0.10 | 3 | \$1,204 | 85% | 0.1 |
| PECO | Refrigeration Commissioning | Non-commissioned refrigeration system | Street Lighting | Refrigeration | New | building | 5,378 | 9.5% | 0.10 | 3 | \$1,204 | 85% | 0.1 |
| PECO | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Street Lighting | Refrigeration | Existing | building | 1,136 | 62% | 0.6 | 4 | \$93 | 22% | 3.7 |
| PECO | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Street Lighting | Refrigeration | Existing | building | 3,850 | 7.6% | 0.08 | 4 | \$80 | 22% | 0.9 |
| PECO | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Street Lighting | Refrigeration | New | building | 1,136 | 62% | 0.6 | 4 | \$93 | 22% | 3.7 |
| PECO | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Street Lighting | Refrigeration | New | building | 3,850 | 7.6% | 0.08 | 4 | \$80 | 22% | 1.0 |
| PECO | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Street Lighting | Refrigeration | Existing | building | 1,136 | 11% | 0.1 | 11 | \$119 | 79% | 1.2 |
| PECO | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Street Lighting | Refrigeration | New | building | 1,136 | 11% | 0.1 | 11 | \$119 | 79% | 1.2 |
| PECO | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Street Lighting | Refrigeration | Existing | building | 3,850 | 8.1% | 0.08 | 11 | \$119 | 79% | 1.7 |
| PECO | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Street Lighting | Refrigeration | New | building | 3,850 | 8.1% | 0.08 | 11 | \$119 | 79% | 1.7 |
| PECO | Vertical Night Covers | Display cases w/out night covers-High Temperature | Street Lighting | Refrigeration | Existing | building | 204 | 1.1% | 0.01 | 5 | \$52 | 9% | 0.1 |
| PECO | Vertical Night Covers | Display cases w/out night covers-High Temperature | Street Lighting | Refrigeration | New | building | 204 | 1.1% | 0.01 | 5 | \$52 | 9% | 0.1 |
| PECO | VSD Controlled Compressor | Compressor w/out VSD | Street Lighting | Refrigeration | Early | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.2 |
| PECO | VSD Controlled Compressor | Compressor w/out VSD | Street Lighting | Refrigeration | New | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.2 |
| PECO | VSD Controlled Compressor | Compressor w/out VSD | Street Lighting | Refrigeration | ROB | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.2 |
| PECO | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Street Lighting | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$269 | 35% | 0.9 |
| PECO | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Street Lighting | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$269 | 35% | 0.9 |
| PECO | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Street Lighting | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.2 |
| PECO | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Street Lighting | Refrigeration | New | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 3.0 |
| PECO | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Street Lighting | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.2 |
| PECO | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Street Lighting | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 3.0 |
| PECO | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 35% | 2.4 |
| PECO | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 35% | 2.3 |
| PECO | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 5.2 |
| PECO | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.9 |
| PECO | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 5.2 |
| PECO | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.9 |
| PECO | Adding reflective roof treatment | Std color roof | Street Lighting | Space Heating | Existing | building | 8,572 | 7.1% | 0.07 | 6 | \$13,159 | 82% | 0.0 |
| PECO | Adding reflective roof treatment | Std color roof | Street Lighting | Space Heating | New | building | 8,572 | 7.1% | 0.07 | 6 | \$13,159 | 82% | 0.0 |
| PECO | Adding window shade film | No shade film | Street Lighting | Space Heating | Existing | building | 8,572 | 1.3% | 0.4 | 10 | \$104 | 13% | 3.2 |
| PECO | Adding window shade film | No shade film | Street Lighting | Space Heating | New | building | 8,572 | 1.3% | 0.4 | 10 | \$104 | 13% | 3.2 |
| PECO | Adding window shade screen | No shade screen | Street Lighting | Space Heating | Existing | building | 8,572 | 1.1% | 0.01 | 10 | \$40 | 13% | 1.1 |
| PECO | Adding window shade screen | No shade screen | Street Lighting | Space Heating | New | building | 8,572 | 1.1% | 0.01 | 10 | \$40 | 13% | 1.1 |
| PECO | Automated control system | Manual Controls | Street Lighting | Space Heating | Existing | building | 8,572 | 17% | 0.2 | 15 | \$9,384 | 51% | 0.1 |
| PECO | Automated control system | Manual Controls | Street Lighting | Space Heating | New | building | 8,572 | 17% | 0.2 | 15 | \$9,384 | 94% | 0.1 |
| PECO | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Street Lighting | Space Heating | Existing | building | 8,572 | 6.2% | 0.06 | 15 | \$17,130 | 71% | 0.0 |
| PECO | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Street Lighting | Space Heating | New | building | 8,572 | 2.1% | 0.02 | 15 | \$16,283 | 94% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|--|---|-----------------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Duct Insulation, Add R8 | No Insulation | Street Lighting | Space Heating | Existing | building | 8,572 | 1.4% | 0.04 | 15 | \$68 | 20% | 1.5 |
| PECO | Duct Insulation, Add R8 | No Insulation | Street Lighting | Space Heating | New | building | 8,572 | 1.4% | 0.04 | 15 | \$68 | 10% | 1.5 |
| PECO | Efficient Unit Heating System | Existing Unit Heaters in PA | Street Lighting | Space Heating | Early | heater | 27,442 | 23% | 0.05 | 15 | \$3,289 | 83% | 1.0 |
| PECO | Efficient Unit Heating System | Std. Unit Heater | Street Lighting | Space Heating | New | heater | 24,355 | 13% | 0.03 | 15 | \$1,991 | 83% | 0.8 |
| PECO | Efficient Unit Heating System | Std. Unit Heater | Street Lighting | Space Heating | ROB | heater | 24,355 | 13% | 0.03 | 15 | \$1,991 | 83% | 0.8 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Street Lighting | Space Heating | Existing | building | 8,572 | 7.1% | 0.07 | 15 | \$38,022 | 25% | 0.0 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Street Lighting | Space Heating | New | building | 8,572 | 7.1% | 0.07 | 15 | \$38,022 | 35% | 0.0 |
| PECO | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Street Lighting | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 1.1 |
| PECO | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Street Lighting | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 1.1 |
| PECO | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Street Lighting | Space Heating | Existing | building | 8,572 | 2.2% | 0.02 | 10 | \$7,735 | 81% | 0.0 |
| PECO | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Street Lighting | Space Heating | New | building | 8,572 | 2.2% | 0.02 | 10 | \$7,735 | 81% | 0.0 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Street Lighting | Space Heating | Existing | building | 8,572 | 3.6% | 0.04 | 11 | \$286 | 49% | 0.6 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Street Lighting | Space Heating | New | building | 8,572 | 3.1% | 0.03 | 11 | \$146 | 49% | 0.9 |
| PECO | Re-Commissioning (Existing Construction) | No Re-Commissioning | Street Lighting | Space Heating | Existing | building | 8,572 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |
| PECO | VFD on Cooling Tower Fan | Motor w/out VFD | Street Lighting | Space Heating | Early | motor | 18,724 | 70% | 0.1 | 15 | \$2,843 | 88% | 2.5 |
| PECO | VFD on Cooling Tower Fan | Motor w/out VFD | Street Lighting | Space Heating | New | motor | 18,373 | 72% | 0.1 | 15 | \$2,843 | 88% | 2.5 |
| PECO | VFD on Cooling Tower Fan | Motor w/out VFD | Street Lighting | Space Heating | ROB | motor | 18,373 | 72% | 0.1 | 15 | \$2,843 | 88% | 2.5 |
| PECO | Wall Insulations (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Street Lighting | Space Heating | Existing | building | 8,572 | 11% | 0.1 | 15 | \$3,285 | 26% | 0.2 |
| PECO | Wall Insulations (Going upto R 21) | Code minimum Wall Insulations | Street Lighting | Space Heating | New | building | 8,572 | 0.3% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| PECO | Green LED Traffic Light | Green Incandescent Traffic Light | Street Lighting | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 67% | 1.3 |
| PECO | Green LED Traffic Light | Green Incandescent Traffic Light | Street Lighting | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 67% | 0.2 |
| PECO | Green LED Traffic Light | Green Incandescent Traffic Light | Street Lighting | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 67% | 0.2 |
| PECO | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Street Lighting | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 4% | 3.2 |
| PECO | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Street Lighting | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 4% | 0.4 |
| PECO | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Street Lighting | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 4% | 0.4 |
| PECO | Induction Street Lighting | One 100W HPS Street Light Fixture | Street Lighting | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 87% | 0.3 |
| PECO | Induction Street Lighting | One 100W HPS Street Light Fixture | Street Lighting | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 87% | 1.8 |
| PECO | Induction Street Lighting | One 100W HPS Street Light Fixture | Street Lighting | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 87% | 1.8 |
| PECO | LED Street Lighting | One 100W HPS Street Light | Street Lighting | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 88% | 0.2 |
| PECO | LED Street Lighting | One 100W HPS Street Light | Street Lighting | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 88% | 0.3 |
| PECO | LED Street Lighting | One 100W HPS Street Light | Street Lighting | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 88% | 0.3 |
| PECO | Red LED Traffic Light | One Red Incandescent Traffic Light | Street Lighting | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 67% | 1.7 |
| PECO | Red LED Traffic Light | One Red Incandescent Traffic Light | Street Lighting | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 67% | 0.3 |
| PECO | Red LED Traffic Light | One Red Incandescent Traffic Light | Street Lighting | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 67% | 0.3 |
| PECO | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Street Lighting | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 67% | 0.1 |
| PECO | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Street Lighting | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 67% | 0.0 |
| PECO | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Street Lighting | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 67% | 0.0 |
| PECO | Demand controlled Circulating Systems | Constant circulation system | Street Lighting | Water Heating | Existing | building | 1,971 | 20% | 0.2 | 15 | \$358 | 59% | 1.2 |
| PECO | Demand controlled Circulating Systems | Constant circulation system | Street Lighting | Water Heating | New | building | 1,971 | 20% | 0.2 | 15 | \$358 | 59% | 1.2 |
| PECO | Drainwater Heat Recovery Water Heater | No heat recovery | Street Lighting | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 2.0 |
| PECO | Drainwater Heat Recovery Water Heater | No heat recovery | Street Lighting | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 2.0 |
| PECO | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Street Lighting | Water Heating | Existing | building | 1,971 | 5.9% | 0.06 | 12 | \$14 | 85% | 7.7 |
| PECO | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Street Lighting | Water Heating | New | building | 1,971 | 5.9% | 0.06 | 12 | \$4.0 | 85% | 26.8 |
| PECO | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Street Lighting | Water Heating | Early | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 3.2 |
| PECO | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Street Lighting | Water Heating | Early | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 3.2 |
| PECO | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Street Lighting | Water Heating | New | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 3.2 |
| PECO | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Street Lighting | Water Heating | New | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 3.2 |
| PECO | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Street Lighting | Water Heating | ROB | water heater | 10,350 | 65% | 1.2 | 10 | \$1,187 | 68% | 3.0 |
| PECO | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Street Lighting | Water Heating | ROB | water heater | 10,350 | 65% | 1.2 | 10 | \$1,187 | 68% | 3.0 |
| PECO | Heat Recovery Unit | Base Water Heating | Street Lighting | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.7 |
| PECO | Heat Recovery Unit | Base Water Heating | Street Lighting | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.7 |
| PECO | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Street Lighting | Water Heating | Early | water heater | 10,645 | 5.9% | 0.1 | 15 | \$307 | 79% | 1.5 |
| PECO | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Street Lighting | Water Heating | Early | water heater | 10,645 | 5.9% | 0.1 | 15 | \$307 | 79% | 1.5 |
| PECO | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Street Lighting | Water Heating | New | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.8 |
| PECO | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Street Lighting | Water Heating | New | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.8 |
| PECO | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Street Lighting | Water Heating | ROB | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.8 |
| PECO | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Street Lighting | Water Heating | ROB | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.8 |
| PECO | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Street Lighting | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$466 | 81% | 41.5 |
| PECO | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Street Lighting | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 21.6 |
| PECO | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Street Lighting | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 21.6 |
| PECO | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Street Lighting | Water Heating | Existing | building | 1,971 | 1.7% | 0.02 | 13 | \$5.4 | 68% | 6.1 |
| PECO | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Street Lighting | Water Heating | New | building | 1,971 | 1.7% | 0.02 | 13 | \$5.4 | 0% | 6.1 |
| PECO | Hot Water Circulation Pump Time-Clock | Constant circulation system | Street Lighting | Water Heating | Existing | building | 1,971 | 5.3% | 0.05 | 10 | \$8.0 | 72% | 10.5 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|--|---|-----------------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Hot Water Circulation Pump Time-Clock | Constant circulation system | Street Lighting | Water Heating | New | building | 1,971 | 5.3% | 0.05 | 10 | \$8.0 | 72% | 10.5 |
| PECO | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Street Lighting | Water Heating | Existing | building | 1,971 | 0.9% | 0.01 | 7 | \$22 | 78% | 0.5 |
| PECO | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Street Lighting | Water Heating | New | building | 1,971 | 0.8% | 0.01 | 7 | \$0.5 | 78% | 18.7 |
| PECO | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Street Lighting | Water Heating | Existing | building | 1,971 | 9.0% | 0.09 | 5 | \$300 | 0% | 0.3 |
| PECO | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Street Lighting | Water Heating | New | building | 1,971 | 6.0% | 0.06 | 5 | \$194 | 0% | 0.3 |
| PECO | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Street Lighting | Water Heating | Existing | building | 1,971 | 6.5% | 0.07 | 9 | \$25 | 2% | 3.8 |
| PECO | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Street Lighting | Water Heating | New | building | 1,971 | 6.5% | 0.07 | 9 | \$6.0 | 2% | 15.7 |
| PECO | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Street Lighting | Water Heating | Early | water heater | 10,645 | 52% | 0.4 | 15 | \$6,222 | 32% | 0.6 |
| PECO | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Street Lighting | Water Heating | New | water heater | 10,350 | 51% | 0.4 | 15 | \$6,222 | 32% | 0.5 |
| PECO | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Street Lighting | Water Heating | ROB | water heater | 10,350 | 51% | 0.4 | 15 | \$6,222 | 32% | 0.5 |
| PECO | Ultrasonic Faucet Control | Manual Faucet Control | Street Lighting | Water Heating | Existing | building | 1,971 | 3.0% | 0.03 | 10 | \$341 | 77% | 0.1 |
| PECO | Ultrasonic Faucet Control | Manual Faucet Control | Street Lighting | Water Heating | New | building | 1,971 | 3.0% | 0.03 | 10 | \$341 | 77% | 0.1 |
| PECO | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Street Lighting | Water Heating | Existing | building | 1,971 | 2.2% | 0.02 | 4 | \$28 | 83% | 0.6 |
| PECO | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Street Lighting | Water Heating | New | building | 1,971 | 2.3% | 0.02 | 4 | \$28 | 83% | 0.6 |
| PECO | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Warehouse | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.2 |
| PECO | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Warehouse | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.2 |
| PECO | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Warehouse | Cooking | Early | steamer | 16 | 68% | 0.00 | 12 | \$5,053 | 81% | 0.0 |
| PECO | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Warehouse | Cooking | New | steamer | 7 | 29% | 0.00 | 12 | \$601 | 81% | 0.0 |
| PECO | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Warehouse | Cooking | ROB | steamer | 7 | 29% | 0.00 | 12 | \$601 | 81% | 0.0 |
| PECO | Electric combination oven (Energy Star) | Standard Oven | Warehouse | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 3.3 |
| PECO | Electric combination oven (Energy Star) | Standard Oven | Warehouse | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 3.3 |
| PECO | Electric Convection Oven | Conventional convection oven w/ 65% efficiency | Warehouse | Cooking | Early | oven | 8,641 | 37% | 0.6 | 12 | \$4,119 | 81% | 0.5 |
| PECO | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Warehouse | Cooking | New | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.8 |
| PECO | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Warehouse | Cooking | ROB | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.8 |
| PECO | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Warehouse | Cooking | Early | fryer | 6,105 | 23% | 0.3 | 12 | \$9,241 | 86% | 0.1 |
| PECO | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Warehouse | Cooking | New | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.4 |
| PECO | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Warehouse | Cooking | ROB | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.4 |
| PECO | High Efficiency Griddle (ENERGY STAR) | Efficiency code minimum griddle (70% eff) | Warehouse | Cooking | Early | griddle | 11,317 | 65% | 1.4 | 12 | \$4,977 | 86% | 1.0 |
| PECO | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Warehouse | Cooking | New | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.3 |
| PECO | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Warehouse | Cooking | ROB | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.3 |
| PECO | High Efficiency Induction Cooking | Standard Cooking | Warehouse | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.2 |
| PECO | High Efficiency Induction Cooking | Standard Cooking | Warehouse | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.2 |
| PECO | Adding reflective roof treatment | Std color roof | Warehouse | Cooling Central | Existing | building | 2,383 | 7.0% | 0.07 | 6 | \$20,967 | 82% | 0.0 |
| PECO | Adding reflective roof treatment | Std color roof | Warehouse | Cooling Central | New | building | 2,383 | 7.0% | 0.07 | 6 | \$20,967 | 82% | 0.0 |
| PECO | Adding window shade film | No shade film | Warehouse | Cooling Central | Existing | building | 2,383 | 1.3% | 0.4 | 10 | \$29 | 13% | 10.5 |
| PECO | Adding window shade film | No shade film | Warehouse | Cooling Central | New | building | 2,383 | 1.3% | 0.4 | 10 | \$29 | 13% | 10.5 |
| PECO | Adding window shade screen | No shade screen | Warehouse | Cooling Central | Existing | building | 2,383 | 1.1% | 0.01 | 10 | \$11 | 13% | 1.6 |
| PECO | Adding window shade screen | No shade screen | Warehouse | Cooling Central | New | building | 2,383 | 1.0% | 0.01 | 10 | \$11 | 13% | 1.6 |
| PECO | Automated control system | Manual Controls | Warehouse | Cooling Central | Existing | building | 2,383 | 17% | 0.2 | 15 | \$2,609 | 51% | 0.2 |
| PECO | Automated control system | Manual Controls | Warehouse | Cooling Central | New | building | 2,383 | 17% | 0.2 | 15 | \$2,609 | 94% | 0.2 |
| PECO | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Warehouse | Cooling Central | Existing | building | 2,383 | 5.9% | 0.06 | 15 | \$27,901 | 71% | 0.0 |
| PECO | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Warehouse | Cooling Central | New | building | 2,383 | 3.7% | 0.04 | 15 | \$26,520 | 94% | 0.0 |
| PECO | Chiller Tuneup/Diagnostics | No tuneup | Warehouse | Cooling Central | Existing | building | 2,383 | 8.0% | 0.08 | 10 | \$6,086 | 59% | 0.0 |
| PECO | Chiller Tuneup/Diagnostics | No tuneup | Warehouse | Cooling Central | New | building | 2,383 | 8.0% | 0.08 | 10 | \$6,086 | 59% | 0.0 |
| PECO | Cooling Tower Optimization | No Cooling Tower Optimization | Warehouse | Cooling Central | Existing | building | 2,383 | 20% | 0.2 | 10 | \$15 | 69% | 23.6 |
| PECO | Duct Insulation, Add R8 | No Insulation | Warehouse | Cooling Central | Existing | building | 2,383 | 1.4% | 0.04 | 15 | \$19 | 20% | 3.2 |
| PECO | Duct Insulation, Add R8 | No Insulation | Warehouse | Cooling Central | New | building | 2,383 | 1.4% | 0.04 | 15 | \$19 | 10% | 3.2 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Warehouse | Cooling Central | Existing | building | 2,383 | 7.0% | 0.07 | 15 | \$10,572 | 25% | 0.0 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Warehouse | Cooling Central | New | building | 2,383 | 7.0% | 0.07 | 15 | \$10,572 | 35% | 0.0 |
| PECO | Hi Eff HVAC System Design | No HVAC Design | Warehouse | Cooling Central | New | building | 2,383 | 12% | 0.1 | 10 | \$131,395 | 51% | 0.0 |
| PECO | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | Early | ton | 5,730 | 24% | 0.3 | 15 | \$108,550 | 89% | 0.0 |
| PECO | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | New | ton | 4,684 | 6.7% | 0.07 | 15 | \$12,927 | 89% | 0.0 |
| PECO | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | ROB | ton | 4,684 | 6.7% | 0.07 | 15 | \$12,927 | 89% | 0.0 |
| PECO | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | Early | ton | 8,562 | 23% | 0.5 | 15 | \$140,105 | 89% | 0.0 |
| PECO | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | New | ton | 6,888 | 4.9% | 0.08 | 15 | \$9,336 | 89% | 0.0 |
| PECO | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | ROB | ton | 6,888 | 4.9% | 0.08 | 15 | \$9,336 | 89% | 0.0 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | Early | ton | 70,089 | 26% | 4.1 | 15 | \$105,354 | 89% | 0.1 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | New | ton | 61,068 | 15% | 2.1 | 15 | \$30,530 | 89% | 0.2 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | ROB | ton | 61,068 | 15% | 2.1 | 15 | \$30,530 | 89% | 0.2 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | Early | ton | 104,974 | 23% | 5.4 | 15 | \$154,107 | 89% | 0.1 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | New | ton | 96,432 | 16% | 3.5 | 15 | \$27,646 | 89% | 0.4 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|--|---|-----------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | ROB | ton | 104,974 | 23% | 5.4 | 15 | \$27,646 | 89% | 0.7 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | Early | ton | 174,342 | 23% | 8.9 | 15 | \$302,924 | 89% | 0.1 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | New | ton | 157,792 | 14% | 5.1 | 15 | \$115,432 | 89% | 0.2 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | ROB | ton | 174,342 | 23% | 8.9 | 15 | \$115,432 | 89% | 0.3 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | Early | ton | 209,211 | 23% | 10.6 | 15 | \$350,154 | 89% | 0.1 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | New | ton | 189,351 | 14% | 6.2 | 15 | \$120,406 | 89% | 0.2 |
| PECO | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | ROB | ton | 209,211 | 23% | 10.6 | 15 | \$120,406 | 89% | 0.3 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | Early | ton | 46,373 | 29% | 3.1 | 15 | \$83,632 | 89% | 0.1 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | New | ton | 36,008 | 8.9% | 0.7 | 15 | \$40,211 | 89% | 0.1 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | ROB | ton | 46,373 | 29% | 3.1 | 15 | \$40,211 | 89% | 0.3 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | Early | ton | 79,681 | 35% | 6.2 | 15 | \$132,173 | 89% | 0.2 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | New | ton | 59,428 | 13% | 1.7 | 15 | \$39,556 | 89% | 0.2 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | ROB | ton | 59,428 | 13% | 1.7 | 15 | \$39,556 | 89% | 0.2 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | Early | ton | 133,034 | 39% | 11.7 | 15 | \$187,029 | 89% | 0.2 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | New | ton | 94,851 | 15% | 3.1 | 15 | \$33,554 | 89% | 0.3 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | ROB | ton | 133,034 | 39% | 11.7 | 15 | \$33,554 | 89% | 1.2 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | Early | ton | 23,279 | 30% | 1.6 | 15 | \$32,398 | 89% | 0.2 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | New | ton | 18,443 | 11% | 0.5 | 15 | \$7,188 | 89% | 0.2 |
| PECO | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | ROB | ton | 23,279 | 30% | 1.6 | 15 | \$7,188 | 89% | 0.8 |
| PECO | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Warehouse | Cooling Central | Existing | building | 2,383 | 1.1% | 0.01 | 10 | \$42,091 | 81% | 0.0 |
| PECO | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Warehouse | Cooling Central | New | building | 2,383 | 1.1% | 0.01 | 10 | \$42,091 | 81% | 0.0 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Warehouse | Cooling Central | Existing | building | 2,383 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.1 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Warehouse | Cooling Central | New | building | 2,383 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.2 |
| PECO | Re-Commissioning (Existing Construction) | No Re-Commissioning | Warehouse | Cooling Central | Existing | building | 2,383 | 16% | 0.2 | 5 | \$8,619 | 86% | 0.0 |
| PECO | Wall Insultions (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Warehouse | Cooling Central | Existing | building | 2,383 | 19% | 0.2 | 15 | \$6,551 | 26% | 0.1 |
| PECO | Wall Insultions (Going upto R 21) | Code minimum Wall Insulations | Warehouse | Cooling Central | New | building | 2,383 | 0.6% | 0.01 | 15 | \$5,025 | 94% | 0.0 |
| PECO | <65k BTU/hr 14 SEER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Warehouse | Cooling Unitary | Early | ton | 4,883 | 16% | 0.2 | 15 | \$1,545 | 28% | 0.4 |
| PECO | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Warehouse | Cooling Unitary | New | ton | 4,422 | 7.1% | 0.08 | 15 | \$339 | 28% | 0.8 |
| PECO | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Warehouse | Cooling Unitary | ROB | ton | 4,422 | 7.1% | 0.08 | 15 | \$339 | 28% | 0.8 |
| PECO | <65k BTU/hr 15 SEER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Warehouse | Cooling Unitary | Early | ton | 4,883 | 22% | 0.3 | 15 | \$1,821 | 28% | 0.5 |
| PECO | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Warehouse | Cooling Unitary | New | ton | 4,422 | 13% | 0.2 | 15 | \$714 | 28% | 0.7 |
| PECO | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Warehouse | Cooling Unitary | ROB | ton | 4,422 | 13% | 0.2 | 15 | \$714 | 28% | 0.7 |
| PECO | <65k BTU/hr 16 SEER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Warehouse | Cooling Unitary | Early | ton | 4,883 | 26% | 0.3 | 15 | \$2,098 | 29% | 0.5 |
| PECO | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Warehouse | Cooling Unitary | New | ton | 4,422 | 19% | 0.2 | 15 | \$1,089 | 29% | 0.6 |
| PECO | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Warehouse | Cooling Unitary | ROB | ton | 4,422 | 19% | 0.2 | 15 | \$1,089 | 29% | 0.6 |
| PECO | >760k min 10.2 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Warehouse | Cooling Unitary | Early | ton | 123,541 | 3.7% | 1.2 | 15 | \$68,066 | 35% | 0.1 |
| PECO | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Warehouse | Cooling Unitary | New | ton | 125,126 | 4.9% | 1.6 | 15 | \$6,231 | 35% | 0.8 |
| PECO | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Warehouse | Cooling Unitary | ROB | ton | 125,126 | 4.9% | 1.6 | 15 | \$6,231 | 35% | 0.8 |
| PECO | 135-240k min 12 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Warehouse | Cooling Unitary | Early | ton | 30,398 | 18% | 1.4 | 15 | \$18,135 | 35% | 0.3 |
| PECO | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Warehouse | Cooling Unitary | New | ton | 27,652 | 10.0% | 0.7 | 15 | \$1,948 | 35% | 1.2 |
| PECO | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Warehouse | Cooling Unitary | ROB | ton | 27,652 | 10.0% | 0.7 | 15 | \$1,948 | 35% | 1.2 |
| PECO | 240k-760k min 11 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Warehouse | Cooling Unitary | Early | ton | 81,277 | 9.0% | 1.9 | 15 | \$44,809 | 35% | 0.1 |
| PECO | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Warehouse | Cooling Unitary | New | ton | 81,480 | 9.3% | 2.0 | 15 | \$4,813 | 35% | 1.3 |
| PECO | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Warehouse | Cooling Unitary | ROB | ton | 81,480 | 9.3% | 2.0 | 15 | \$4,813 | 35% | 1.3 |
| PECO | 65k-135k BTU/hr 12 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Warehouse | Cooling Unitary | Early | ton | 17,919 | 17% | 0.8 | 15 | \$10,946 | 35% | 0.2 |
| PECO | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Warehouse | Cooling Unitary | New | ton | 15,970 | 6.7% | 0.3 | 15 | \$1,392 | 35% | 0.6 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---|--|-----------|-----------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Warehouse | Cooling Unitary | ROB | ton | 15,970 | 6.7% | 0.3 | 15 | \$1,392 | 35% | 0.6 |
| PECO | Adding reflective roof treatment | Std color roof | Warehouse | Cooling Unitary | Existing | building | 22,112 | 7.0% | 0.07 | 6 | \$20,967 | 82% | 0.0 |
| PECO | Adding reflective roof treatment | Std color roof | Warehouse | Cooling Unitary | New | building | 22,112 | 7.0% | 0.07 | 6 | \$20,967 | 82% | 0.0 |
| PECO | Adding window shade film | No shade film | Warehouse | Cooling Unitary | Existing | building | 22,112 | 1.3% | 0.4 | 10 | \$269 | 12% | 1.5 |
| PECO | Adding window shade film | No shade film | Warehouse | Cooling Unitary | New | building | 22,112 | 1.3% | 0.4 | 10 | \$269 | 13% | 1.5 |
| PECO | Adding window shade screen | No shade screen | Warehouse | Cooling Unitary | Existing | building | 22,112 | 1.1% | 0.01 | 10 | \$104 | 12% | 1.0 |
| PECO | Adding window shade screen | No shade screen | Warehouse | Cooling Unitary | New | building | 22,112 | 1.1% | 0.01 | 10 | \$104 | 13% | 1.0 |
| PECO | Automated control system | Manual Controls | Warehouse | Cooling Unitary | Existing | building | 22,112 | 17% | 0.2 | 15 | \$24,207 | 51% | 0.1 |
| PECO | Automated control system | Manual Controls | Warehouse | Cooling Unitary | New | building | 22,112 | 17% | 0.2 | 15 | \$24,207 | 94% | 0.1 |
| PECO | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Warehouse | Cooling Unitary | Existing | building | 22,112 | 5.9% | 0.06 | 15 | \$27,901 | 71% | 0.0 |
| PECO | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Warehouse | Cooling Unitary | New | building | 22,112 | 3.7% | 0.04 | 15 | \$26,520 | 94% | 0.0 |
| PECO | Duct Insulation, Add R8 | No Insulation | Warehouse | Cooling Unitary | Existing | building | 22,112 | 1.4% | 0.04 | 15 | \$176 | 20% | 1.2 |
| PECO | Duct Insulation, Add R8 | No Insulation | Warehouse | Cooling Unitary | New | building | 22,112 | 1.4% | 0.04 | 15 | \$176 | 10% | 1.2 |
| PECO | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Warehouse | Cooling Unitary | Existing | building | 12,084 | 13% | 0.1 | 1 | \$116 | 73% | 0.7 |
| PECO | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Warehouse | Cooling Unitary | New | building | 12,084 | 13% | 0.1 | 1 | \$116 | 73% | 0.7 |
| PECO | ECM Motors for split systems | Std Shaded Pole Motor | Warehouse | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 35% | 3.2 |
| PECO | ECM Motors for split systems | Std Shaded Pole Motor | Warehouse | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 35% | 3.2 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Warehouse | Cooling Unitary | Existing | building | 22,112 | 7.1% | 0.07 | 15 | \$98,083 | 25% | 0.0 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Warehouse | Cooling Unitary | New | building | 22,112 | 7.1% | 0.07 | 15 | \$98,083 | 35% | 0.0 |
| PECO | Hi Eff HVAC System Design | No HVAC Design | Warehouse | Cooling Unitary | New | building | 22,112 | 12% | 0.1 | 10 | \$10,611 | 51% | 0.1 |
| PECO | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Warehouse | Cooling Unitary | Existing | building | 22,112 | 5.0% | 0.05 | 5 | \$225 | 59% | 1.2 |
| PECO | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Warehouse | Cooling Unitary | Existing | building | 22,112 | 1.1% | 0.01 | 10 | \$45,236 | 86% | 0.0 |
| PECO | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Warehouse | Cooling Unitary | New | building | 22,112 | 1.1% | 0.01 | 10 | \$45,236 | 86% | 0.0 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) | Warehouse | Cooling Unitary | Existing | building | 22,112 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.8 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Warehouse | Cooling Unitary | New | building | 22,112 | 1.7% | 0.02 | 11 | \$146 | 49% | 1.3 |
| PECO | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Warehouse | Cooling Unitary | Early | unit | 358 | 19% | 0.02 | 15 | \$849 | 80% | 0.1 |
| PECO | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Warehouse | Cooling Unitary | New | unit | 362 | 20% | 0.02 | 15 | \$356 | 80% | 0.2 |
| PECO | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Warehouse | Cooling Unitary | ROB | unit | 362 | 20% | 0.02 | 15 | \$356 | 80% | 0.2 |
| PECO | Re-Commissioning (Existing Construction) | No Re-Commissioning | Warehouse | Cooling Unitary | Existing | building | 22,112 | 16% | 0.2 | 5 | \$8,619 | 86% | 0.1 |
| PECO | Room AC (w/ louvered sides) | Existing efficiency Room AC in Pennsylvania (2000 Federal Standards) | Warehouse | Cooling Unitary | Early | ton | 2,559 | 13% | 0.08 | 9 | \$348 | 78% | 0.5 |
| PECO | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Warehouse | Cooling Unitary | New | ton | 2,320 | 4.5% | 0.02 | 9 | \$17 | 78% | 3.2 |
| PECO | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Warehouse | Cooling Unitary | ROB | ton | 2,320 | 4.5% | 0.02 | 9 | \$17 | 78% | 3.2 |
| PECO | Wall Insualtions (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Warehouse | Cooling Unitary | Existing | building | 22,112 | 19% | 0.2 | 15 | \$6,551 | 26% | 0.4 |
| PECO | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Warehouse | Cooling Unitary | New | building | 22,112 | 0.6% | 0.01 | 15 | \$5,025 | 94% | 0.0 |
| PECO | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Warehouse | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 1.1 |
| PECO | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Warehouse | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.4 |
| PECO | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Warehouse | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.4 |
| PECO | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Warehouse | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 0% | 0.2 |
| PECO | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Warehouse | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| PECO | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Warehouse | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| PECO | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Warehouse | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 48% | 0.3 |
| PECO | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Warehouse | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 48% | 0.2 |
| PECO | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Warehouse | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 48% | 2.6 |
| PECO | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Warehouse | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 48% | 2.0 |
| PECO | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Warehouse | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 48% | 2.6 |
| PECO | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Warehouse | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 48% | 2.0 |
| PECO | Photocell Controls (Outdoor) | Lighting w/ No Controls | Warehouse | Ext. Lighting | Existing | building | 72 | 28% | 0.3 | 8 | \$3,718 | 88% | 0.1 |
| PECO | Photocell Controls (Outdoor) | Lighting w/ No Controls | Warehouse | Ext. Lighting | New | building | 72 | 28% | 0.3 | 8 | \$3,718 | 0% | 0.1 |
| PECO | Adding reflective roof treatment | Std color roof | Warehouse | Heat Pump | Existing | building | 2,256 | 6.9% | 0.07 | 6 | \$20,967 | 82% | 0.0 |
| PECO | Adding reflective roof treatment | Std color roof | Warehouse | Heat Pump | New | building | 2,256 | 6.9% | 0.07 | 6 | \$20,967 | 82% | 0.0 |
| PECO | Adding window shade film | No shade film | Warehouse | Heat Pump | Existing | building | 2,256 | 3.9% | 0.4 | 10 | \$27 | 12% | 12.0 |
| PECO | Adding window shade film | No shade film | Warehouse | Heat Pump | New | building | 2,256 | 3.9% | 0.4 | 10 | \$27 | 12% | 12.0 |
| PECO | Adding window shade screen | No shade screen | Warehouse | Heat Pump | Existing | building | 2,256 | 0.3% | 0.01 | 10 | \$3.5 | 12% | 3.1 |
| PECO | Adding window shade screen | No shade screen | Warehouse | Heat Pump | New | building | 2,256 | 0.3% | 0.01 | 10 | \$3.5 | 12% | 3.1 |
| PECO | Automated control system | Manual Controls | Warehouse | Heat Pump | Existing | building | 2,256 | 17% | 0.2 | 15 | \$2,470 | 51% | 0.2 |
| PECO | Automated control system | Manual Controls | Warehouse | Heat Pump | New | building | 2,256 | 17% | 0.2 | 15 | \$2,470 | 94% | 0.2 |
| PECO | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Warehouse | Heat Pump | Existing | building | 2,256 | 5.9% | 0.06 | 15 | \$27,901 | 71% | 0.0 |
| PECO | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Warehouse | Heat Pump | New | building | 2,256 | 3.7% | 0.04 | 15 | \$26,520 | 94% | 0.0 |
| PECO | Duct Insulation, Add R8 | No Insulation | Warehouse | Heat Pump | Existing | building | 2,256 | 4.0% | 0.04 | 15 | \$18 | 12% | 5.2 |
| PECO | Duct Insulation, Add R8 | No Insulation | Warehouse | Heat Pump | New | building | 2,256 | 4.0% | 0.04 | 15 | \$18 | 6% | 5.2 |
| PECO | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Warehouse | Heat Pump | Early | heat pump | 3,011 | 14% | 0.10 | 15 | \$4,070 | 83% | 0.1 |
| PECO | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Warehouse | Heat Pump | New | heat pump | 2,793 | 7.5% | 0.05 | 15 | \$1,097 | 83% | 0.2 |
| PECO | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Warehouse | Heat Pump | ROB | heat pump | 2,793 | 7.5% | 0.05 | 15 | \$1,097 | 83% | 0.2 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Warehouse | Heat Pump | Existing | building | 2,256 | 7.0% | 0.07 | 15 | \$10,008 | 25% | 0.0 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Warehouse | Heat Pump | New | building | 2,256 | 7.0% | 0.07 | 15 | \$10,008 | 35% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|--|---|-----------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Warehouse | Heat Pump | Early | heat pump | 32,459 | 22% | 1.6 | 15 | \$91,117 | 19% | 0.1 |
| PECO | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Warehouse | Heat Pump | New | heat pump | 30,610 | 17% | 1.2 | 15 | \$33,927 | 19% | 0.1 |
| PECO | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Warehouse | Heat Pump | ROB | heat pump | 30,610 | 17% | 1.2 | 15 | \$33,927 | 19% | 0.1 |
| PECO | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Warehouse | Heat Pump | Early | heat pump | 32,459 | 22% | 1.6 | 15 | \$58,356 | 19% | 0.1 |
| PECO | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Warehouse | Heat Pump | New | heat pump | 30,610 | 17% | 1.2 | 15 | \$1,167 | 19% | 3.7 |
| PECO | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Warehouse | Heat Pump | ROB | heat pump | 30,610 | 17% | 1.2 | 15 | \$1,167 | 19% | 3.7 |
| PECO | Hi Eff HVAC System Design | No HVAC Design | Warehouse | Heat Pump | New | building | 2,256 | 12% | 0.1 | 10 | \$131,395 | 51% | 0.0 |
| PECO | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Warehouse | Heat Pump | Early | heat pump | 8,029 | 19% | 0.3 | 12 | \$4,298 | 81% | 0.2 |
| PECO | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Warehouse | Heat Pump | Early | heat pump | 8,029 | 23% | 0.4 | 12 | \$5,883 | 81% | 0.2 |
| PECO | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Warehouse | Heat Pump | New | heat pump | 7,448 | 13% | 0.2 | 12 | \$852 | 81% | 0.8 |
| PECO | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Warehouse | Heat Pump | New | heat pump | 7,448 | 17% | 0.3 | 12 | \$2,437 | 81% | 0.4 |
| PECO | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Warehouse | Heat Pump | ROB | heat pump | 7,448 | 13% | 0.2 | 12 | \$852 | 81% | 0.8 |
| PECO | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Warehouse | Heat Pump | ROB | heat pump | 7,448 | 17% | 0.3 | 12 | \$2,437 | 81% | 0.4 |
| PECO | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Warehouse | Heat Pump | Existing | building | 2,256 | 1.1% | 0.01 | 10 | \$40,275 | 81% | 0.0 |
| PECO | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Warehouse | Heat Pump | New | building | 2,256 | 1.1% | 0.01 | 10 | \$40,275 | 81% | 0.0 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Warehouse | Heat Pump | Existing | building | 2,256 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.2 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Warehouse | Heat Pump | New | building | 2,256 | 2.1% | 0.02 | 11 | \$146 | 49% | 0.3 |
| PECO | Re-Commissioning (Existing Construction) | No Re-Commissioning | Warehouse | Heat Pump | Existing | building | 2,256 | 16% | 0.2 | 5 | \$8,619 | 86% | 0.0 |
| PECO | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Warehouse | Heat Pump | New | measure | 290,645 | 2.0% | 0.7 | 13 | \$36,589 | 43% | 0.1 |
| PECO | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Warehouse | Heat Pump | ROB | measure | 290,645 | 2.0% | 0.7 | 13 | \$36,589 | 43% | 0.1 |
| PECO | Wall Insualtions (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Warehouse | Heat Pump | Existing | building | 2,256 | 19% | 0.2 | 15 | \$6,551 | 26% | 0.1 |
| PECO | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Warehouse | Heat Pump | New | building | 2,256 | 0.6% | 0.01 | 15 | \$5,025 | 94% | 0.0 |
| PECO | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Warehouse | Heat Pump | Early | heat pump | 12,160 | 26% | 0.7 | 15 | \$35,347 | 28% | 0.1 |
| PECO | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Warehouse | Heat Pump | New | heat pump | 11,109 | 19% | 0.5 | 15 | \$15,739 | 28% | 0.1 |
| PECO | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Warehouse | Heat Pump | ROB | heat pump | 11,109 | 19% | 0.5 | 15 | \$15,739 | 28% | 0.1 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | Early | Fixture | 536 | 9.6% | 0.01 | 13 | \$850 | 39% | 0.0 |
| PECO | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Warehouse | High Bay Lighting | Early | Fixture | 535 | 9.5% | 0.01 | 13 | \$850 | 28% | 0.0 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Warehouse | High Bay Lighting | Early | Fixture | 827 | 41% | 0.08 | 13 | \$850 | 36% | 0.3 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | New | Fixture | 407 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Warehouse | High Bay Lighting | New | Fixture | 379 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Warehouse | High Bay Lighting | New | Fixture | 628 | 41% | 0.06 | 13 | \$397 | 36% | 0.5 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 536 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 499 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| PECO | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 827 | 41% | 0.08 | 13 | \$397 | 36% | 0.6 |
| PECO | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | Early | Fixture | 1,040 | 19% | 0.05 | 13 | \$851 | 38% | 0.2 |
| PECO | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Warehouse | High Bay Lighting | Early | Fixture | 1,053 | 20% | 0.05 | 13 | \$851 | 38% | 0.2 |
| PECO | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | Early | Fixture | 3,064 | 73% | 0.5 | 13 | \$851 | 38% | 1.9 |
| PECO | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | New | Fixture | 791 | 19% | 0.03 | 13 | \$372 | 38% | 0.3 |
| PECO | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | New | Fixture | 2,329 | 73% | 0.4 | 13 | \$383 | 38% | 3.2 |
| PECO | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 1,040 | 19% | 0.05 | 13 | \$372 | 38% | 0.4 |
| PECO | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 3,064 | 73% | 0.5 | 13 | \$383 | 38% | 4.2 |
| PECO | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | Early | Fixture | 1,040 | 25% | 0.06 | 13 | \$554 | 29% | 0.3 |
| PECO | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Warehouse | High Bay Lighting | Early | Fixture | 1,021 | 23% | 0.05 | 13 | \$554 | 28% | 0.3 |
| PECO | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | Early | Fixture | 3,064 | 74% | 0.5 | 13 | \$554 | 36% | 3.0 |
| PECO | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | New | Fixture | 791 | 25% | 0.04 | 13 | \$75 | 29% | 1.9 |
| PECO | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | New | Fixture | 2,329 | 74% | 0.4 | 13 | \$86 | 36% | 14.5 |
| PECO | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 1,040 | 25% | 0.06 | 13 | \$75 | 29% | 2.5 |
| PECO | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 3,064 | 74% | 0.5 | 13 | \$86 | 36% | 19.1 |
| PECO | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Warehouse | High Bay Lighting | Early | Fixture | 271 | 0.2% | 0.00 | 13 | \$835 | 38% | 0.0 |
| PECO | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Warehouse | High Bay Lighting | Early | Fixture | 584 | 54% | 0.07 | 13 | \$835 | 38% | 0.3 |
| PECO | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Warehouse | High Bay Lighting | New | Fixture | 444 | 54% | 0.05 | 13 | \$382 | 38% | 0.4 |
| PECO | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 584 | 54% | 0.07 | 13 | \$382 | 38% | 0.6 |
| PECO | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | Early | Fixture | 1,325 | 18% | 0.05 | 13 | \$487 | 25% | 0.4 |
| PECO | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Warehouse | High Bay Lighting | Early | Fixture | 1,386 | 22% | 0.07 | 13 | \$487 | 28% | 0.4 |
| PECO | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | Early | Fixture | 3,064 | 65% | 0.4 | 13 | \$487 | 36% | 2.9 |
| PECO | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | New | Fixture | 1,007 | 18% | 0.04 | 13 | \$16 | 25% | 8.1 |
| PECO | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | New | Fixture | 2,329 | 65% | 0.3 | 13 | \$18 | 36% | 58.7 |
| PECO | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 1,325 | 18% | 0.05 | 13 | \$16 | 25% | 10.7 |
| PECO | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 3,064 | 65% | 0.4 | 13 | \$18 | 36% | 77.2 |
| PECO | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | Early | Fixture | 1,325 | 1.5% | 0.00 | 13 | \$557 | 19% | 0.0 |
| PECO | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Warehouse | High Bay Lighting | Early | Fixture | 1,364 | 4.3% | 0.01 | 13 | \$557 | 19% | 0.1 |
| PECO | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | Early | Fixture | 3,064 | 57% | 0.4 | 13 | \$557 | 19% | 2.3 |
| PECO | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | New | Fixture | 1,007 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| PECO | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | New | Fixture | 2,329 | 57% | 0.3 | 13 | \$88 | 19% | 10.9 |
| PECO | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 1,325 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.2 |
| PECO | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 3,064 | 57% | 0.4 | 13 | \$88 | 19% | 14.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---|---|-----------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Warehouse | High Bay Lighting | Early | Fixture | 563 | 29% | 0.03 | 13 | \$492 | 71% | 0.2 |
| PECO | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | Early | Fixture | 471 | 15% | 0.01 | 13 | \$492 | 95% | 0.1 |
| PECO | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Warehouse | High Bay Lighting | Early | Fixture | 699 | 43% | 0.05 | 13 | \$492 | 95% | 0.4 |
| PECO | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Warehouse | High Bay Lighting | Early | Fixture | 648 | 38% | 0.04 | 13 | \$492 | 95% | 0.3 |
| PECO | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | New | Fixture | 358 | 15% | 0.01 | 13 | \$25 | 95% | 1.4 |
| PECO | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Warehouse | High Bay Lighting | New | Fixture | 531 | 43% | 0.04 | 13 | \$51 | 95% | 2.9 |
| PECO | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 471 | 15% | 0.01 | 13 | \$25 | 95% | 1.9 |
| PECO | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 699 | 43% | 0.05 | 13 | \$51 | 95% | 3.8 |
| PECO | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Warehouse | High Bay Lighting | Early | lamp | 77 | 16% | 0.00 | 14 | \$7.7 | 99% | 1.2 |
| PECO | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Warehouse | High Bay Lighting | New | lamp | 46 | 13% | 0.00 | 14 | \$1.6 | 91% | 2.7 |
| PECO | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Warehouse | High Bay Lighting | ROB | lamp | 74 | 13% | 0.00 | 14 | \$1.6 | 91% | 4.4 |
| PECO | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | Early | Fixture | 3,135 | 23% | 0.2 | 13 | \$613 | 5% | 0.8 |
| PECO | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Warehouse | High Bay Lighting | Early | Fixture | 2,463 | 1.6% | 0.01 | 13 | \$613 | 28% | 0.0 |
| PECO | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | Early | Fixture | 6,128 | 60% | 0.8 | 13 | \$613 | 18% | 4.3 |
| PECO | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | New | Fixture | 2,383 | 23% | 0.1 | 13 | \$96 | 5% | 4.0 |
| PECO | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 3,135 | 23% | 0.2 | 13 | \$96 | 5% | 5.3 |
| PECO | Auto Off Time Switch | Lighting w/ No Controls | Warehouse | High Bay Lighting | Existing | building | 9,727 | 24% | 0.2 | 8 | \$755 | 13% | 1.2 |
| PECO | Auto Off Time Switch | Lighting w/ No Controls | Warehouse | High Bay Lighting | New | building | 9,727 | 6.9% | 0.07 | 8 | \$755 | 0% | 0.4 |
| PECO | Central Lighting Control System | Lighting w/ No Controls | Warehouse | High Bay Lighting | Existing | building | 9,727 | 38% | 0.4 | 8 | \$755 | 13% | 1.7 |
| PECO | Central Lighting Control System | Lighting w/ No Controls | Warehouse | High Bay Lighting | New | building | 9,727 | 14% | 0.1 | 8 | \$755 | 13% | 0.7 |
| PECO | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Warehouse | High Bay Lighting | New | building | 9,727 | 10% | 0.1 | 15 | \$31,316 | 32% | 0.0 |
| PECO | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Warehouse | High Bay Lighting | New | building | 9,727 | 15% | 0.2 | 15 | \$78,291 | 32% | 0.0 |
| PECO | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Warehouse | High Bay Lighting | New | building | 9,727 | 30% | 0.3 | 15 | \$112,217 | 32% | 0.0 |
| PECO | Indoor Daylight Sensors | Lighting w/ No Controls | Warehouse | High Bay Lighting | Existing | building | 9,727 | 28% | 0.3 | 8 | \$3,718 | 13% | 0.3 |
| PECO | Indoor Daylight Sensors | Lighting w/ No Controls | Warehouse | High Bay Lighting | New | building | 9,727 | 4.1% | 0.04 | 8 | \$3,718 | 0% | 0.0 |
| PECO | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | Early | Fixture | 3,135 | 92% | 0.7 | 13 | \$1,916 | 95% | 1.1 |
| PECO | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | Early | Fixture | 6,128 | 96% | 1.3 | 13 | \$1,916 | 95% | 2.2 |
| PECO | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | New | Fixture | 2,383 | 92% | 0.5 | 13 | \$1,468 | 95% | 1.1 |
| PECO | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | New | Fixture | 4,658 | 96% | 1.0 | 13 | \$1,149 | 95% | 2.8 |
| PECO | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 3,135 | 92% | 0.7 | 13 | \$1,468 | 95% | 1.4 |
| PECO | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 6,128 | 96% | 1.3 | 13 | \$1,149 | 95% | 3.7 |
| PECO | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | Early | Fixture | 1,040 | 67% | 0.2 | 13 | \$960 | 95% | 0.5 |
| PECO | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Warehouse | High Bay Lighting | Early | Fixture | 3,064 | 89% | 0.6 | 13 | \$960 | 95% | 2.0 |
| PECO | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Warehouse | High Bay Lighting | Early | Fixture | 841 | 59% | 0.1 | 13 | \$960 | 95% | 0.4 |
| PECO | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | New | Fixture | 791 | 67% | 0.1 | 13 | \$480 | 95% | 0.8 |
| PECO | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Warehouse | High Bay Lighting | New | Fixture | 2,329 | 89% | 0.5 | 13 | \$491 | 95% | 3.0 |
| PECO | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Warehouse | High Bay Lighting | New | Fixture | 639 | 59% | 0.08 | 13 | \$406 | 95% | 0.7 |
| PECO | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 1,040 | 67% | 0.2 | 13 | \$480 | 95% | 1.0 |
| PECO | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 3,064 | 89% | 0.6 | 13 | \$491 | 95% | 4.0 |
| PECO | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 841 | 59% | 0.1 | 13 | \$406 | 95% | 0.9 |
| PECO | Occupancy Sensor | Lighting w/ No Controls | Warehouse | High Bay Lighting | Existing | building | 9,727 | 24% | 0.2 | 8 | \$1,138 | 12% | 0.8 |
| PECO | Occupancy Sensor | Lighting w/ No Controls | Warehouse | High Bay Lighting | New | building | 9,727 | 6.9% | 0.07 | 8 | \$1,138 | 0% | 0.2 |
| PECO | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Warehouse | High Bay Lighting | Existing | building | 9,727 | 28% | 0.3 | 8 | \$3,718 | 12% | 0.3 |
| PECO | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Warehouse | High Bay Lighting | New | building | 9,727 | 4.0% | 0.04 | 8 | \$3,718 | 0% | 0.0 |
| PECO | Time Clock Control | Lighting w/ No Controls | Warehouse | High Bay Lighting | Existing | building | 9,727 | 28% | 0.3 | 8 | \$755 | 13% | 1.5 |
| PECO | Time Clock Control | Lighting w/ No Controls | Warehouse | High Bay Lighting | New | building | 9,727 | 4.0% | 0.04 | 8 | \$755 | 0% | 0.2 |
| PECO | Auto Off Time Switch | Lighting w/ No Controls | Warehouse | Lin. Fluor. Lighting | Existing | building | 5,199 | 24% | 0.2 | 8 | \$755 | 13% | 0.8 |
| PECO | Auto Off Time Switch | Lighting w/ No Controls | Warehouse | Lin. Fluor. Lighting | New | building | 5,199 | 6.9% | 0.07 | 8 | \$755 | 0% | 0.2 |
| PECO | Central Lighting Control System | Lighting w/ No Controls | Warehouse | Lin. Fluor. Lighting | Existing | building | 5,199 | 38% | 0.4 | 8 | \$755 | 12% | 1.2 |
| PECO | Central Lighting Control System | Lighting w/ No Controls | Warehouse | Lin. Fluor. Lighting | New | building | 5,199 | 14% | 0.1 | 8 | \$755 | 12% | 0.4 |
| PECO | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Warehouse | Lin. Fluor. Lighting | New | building | 5,199 | 10% | 0.1 | 15 | \$31,316 | 32% | 0.0 |
| PECO | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Warehouse | Lin. Fluor. Lighting | New | building | 5,199 | 15% | 0.2 | 15 | \$78,291 | 32% | 0.0 |
| PECO | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Warehouse | Lin. Fluor. Lighting | New | building | 5,199 | 30% | 0.3 | 15 | \$112,217 | 32% | 0.0 |
| PECO | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Warehouse | Lin. Fluor. Lighting | Early | Lamp | 155 | 38% | 0.01 | 14 | \$7.3 | 94% | 5.9 |
| PECO | Indoor Daylight Sensors | Lighting w/ No Controls | Warehouse | Lin. Fluor. Lighting | Existing | building | 5,199 | 28% | 0.3 | 8 | \$3,718 | 13% | 0.2 |
| PECO | Indoor Daylight Sensors | Lighting w/ No Controls | Warehouse | Lin. Fluor. Lighting | New | building | 5,199 | 4.1% | 0.04 | 8 | \$3,718 | 0% | 0.0 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | Early | Lamp | 68 | 19% | 0.00 | 15 | \$35 | 94% | 0.3 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 40W T12 Lamp, Magnetic Ballast | Warehouse | Lin. Fluor. Lighting | Early | Lamp | 149 | 63% | 0.02 | 15 | \$35 | 94% | 2.1 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | Early | Lamp | 84 | 34% | 0.01 | 15 | \$35 | 94% | 0.6 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | Early | Lamp | 81 | 32% | 0.01 | 15 | \$35 | 94% | 0.6 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | New | Lamp | 52 | 19% | 0.00 | 15 | \$28 | 94% | 0.3 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | New | Lamp | 62 | 32% | 0.00 | 15 | \$29 | 94% | 0.5 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | New | Lamp | 64 | 34% | 0.00 | 15 | \$22 | 94% | 0.8 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | New | Lamp | 62 | 32% | 0.00 | 15 | \$29 | 94% | 0.5 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | ROB | Lamp | 68 | 19% | 0.00 | 15 | \$28 | 94% | 0.4 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | ROB | Lamp | 81 | 32% | 0.01 | 15 | \$29 | 94% | 0.7 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | ROB | Lamp | 84 | 34% | 0.01 | 15 | \$22 | 94% | 1.1 |
| PECO | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | ROB | Lamp | 81 | 32% | 0.01 | 15 | \$29 | 94% | 0.7 |
| PECO | Occupancy Sensor | Lighting w/ No Controls | Warehouse | Lin. Fluor. Lighting | Existing | building | 5,199 | 24% | 0.2 | 8 | \$1,138 | 13% | 0.5 |
| PECO | Occupancy Sensor | Lighting w/ No Controls | Warehouse | Lin. Fluor. Lighting | New | building | 5,199 | 7.0% | 0.07 | 8 | \$1,138 | 0% | 0.1 |
| PECO | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Warehouse | Lin. Fluor. Lighting | Existing | building | 5,199 | 28% | 0.3 | 8 | \$3,718 | 12% | 0.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---|--|-----------|---------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | ROB | motor | 178,495 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.2 |
| PECO | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | ROB | motor | 178,495 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.1 |
| PECO | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | ROB | motor | 178,495 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.2 |
| PECO | ASD HVAC Fan | Std. HVAC Fan | Warehouse | Motors | New | measure | 2,003 | 9.1% | 0.02 | 15 | \$3,702 | 85% | 0.0 |
| PECO | ASD HVAC Fan | Std. HVAC Fan | Warehouse | Motors | ROB | measure | 2,003 | 9.1% | 0.02 | 15 | \$3,702 | 85% | 0.0 |
| PECO | Downsizing motor during retrofit | Larger hp standard motor | Warehouse | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 24.8 |
| PECO | Downsizing motor during retrofit | Larger hp standard motor | Warehouse | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 25.5 |
| PECO | Downsizing motor during retrofit | Larger hp standard motor | Warehouse | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 25.6 |
| PECO | Downsizing motor during retrofit | Larger hp standard motor | Warehouse | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 25.1 |
| PECO | Downsizing motor during retrofit | Larger hp standard motor | Warehouse | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 27.1 |
| PECO | Downsizing motor during retrofit | Larger hp standard motor | Warehouse | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 25.0 |
| PECO | Downsizing motor during retrofit | Larger hp standard motor | Warehouse | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 25.5 |
| PECO | Downsizing motor during retrofit | Larger hp standard motor | Warehouse | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 25.7 |
| PECO | Downsizing motor during retrofit | Larger hp standard motor | Warehouse | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 25.3 |
| PECO | Downsizing motor during retrofit | Larger hp standard motor | Warehouse | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 27.0 |
| PECO | Escalator Motor Controller | Constant power control | Warehouse | Motors | New | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 67% | 6.8 |
| PECO | Escalator Motor Controller | Constant power control | Warehouse | Motors | ROB | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 67% | 6.8 |
| PECO | Variable Speed Drive Control, 15HP | Existing Motors w/out VSD Drive | Warehouse | Motors | Early | motor | 37,268 | 70% | 2.9 | 15 | \$731 | 86% | 23.8 |
| PECO | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Warehouse | Motors | New | motor | 36,467 | 72% | 2.9 | 15 | \$731 | 86% | 23.8 |
| PECO | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VSD Drive | Warehouse | Motors | ROB | motor | 36,467 | 72% | 2.9 | 15 | \$731 | 86% | 23.8 |
| PECO | Variable Speed Drive Control, 40HP | Existing Motors w/out VSD Drive | Warehouse | Motors | Early | motor | 97,245 | 71% | 7.6 | 15 | \$4,666 | 86% | 9.8 |
| PECO | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Warehouse | Motors | New | motor | 96,108 | 72% | 7.6 | 15 | \$4,666 | 86% | 9.8 |
| PECO | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Warehouse | Motors | ROB | motor | 96,108 | 72% | 7.6 | 15 | \$4,666 | 86% | 9.8 |
| PECO | Variable Speed Drive Control, 5HP | Existing Motors w/out VFD Drive | Warehouse | Motors | Early | motor | 12,920 | 70% | 1.0 | 15 | \$2,243 | 86% | 2.7 |
| PECO | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Warehouse | Motors | New | motor | 12,631 | 72% | 1.0 | 15 | \$2,243 | 86% | 2.7 |
| PECO | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VFD Drive | Warehouse | Motors | ROB | motor | 12,631 | 72% | 1.0 | 15 | \$2,243 | 86% | 2.7 |
| PECO | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Warehouse | Motors | Early | motor | 3,717 | 30% | 0.1 | 15 | \$268 | 13% | 3.0 |
| PECO | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Warehouse | Motors | New | motor | 3,717 | 30% | 0.1 | 15 | \$268 | 13% | 3.0 |
| PECO | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Warehouse | Motors | ROB | motor | 3,717 | 30% | 0.1 | 15 | \$268 | 13% | 3.0 |
| PECO | VFD on Chilled Water Pump | Motor w/out VFD Drive | Warehouse | Motors | Early | motor | 18,724 | 54% | 2.7 | 15 | \$2,903 | 86% | 3.0 |
| PECO | VFD on Chilled Water Pump | Motor w/out VFD Drive | Warehouse | Motors | New | motor | 18,373 | 55% | 2.7 | 15 | \$2,843 | 86% | 3.1 |
| PECO | VFD on Chilled Water Pump | Motor w/out VFD Drive | Warehouse | Motors | ROB | motor | 18,373 | 55% | 2.7 | 15 | \$2,843 | 86% | 3.1 |
| PECO | VFD on Condenser Water Pump | Motor w/out VFD Drive | Warehouse | Motors | Early | motor | 18,641 | 32% | 3.2 | 15 | \$2,903 | 86% | 2.4 |
| PECO | VFD on Condenser Water Pump | Motor w/out VFD Drive | Warehouse | Motors | New | motor | 18,292 | 33% | 3.1 | 15 | \$2,843 | 86% | 2.4 |
| PECO | VFD on Condenser Water Pump | Motor w/out VFD Drive | Warehouse | Motors | ROB | motor | 18,292 | 33% | 3.1 | 15 | \$2,843 | 86% | 2.4 |
| PECO | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Warehouse | Motors | Early | motor | 24,733 | 56% | 0.00 | 15 | \$2,903 | 86% | 2.8 |
| PECO | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Warehouse | Motors | New | motor | 24,271 | 57% | 0.00 | 15 | \$2,843 | 86% | 2.8 |
| PECO | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Warehouse | Motors | ROB | motor | 24,271 | 57% | 0.00 | 15 | \$2,843 | 86% | 2.8 |
| PECO | VFD on HVAC Fan | Motor w/out VFD | Warehouse | Motors | Early | motor | 18,724 | 70% | 3.4 | 15 | \$2,903 | 86% | 3.7 |
| PECO | VFD on HVAC Fan | Motor w/out VFD | Warehouse | Motors | New | motor | 18,373 | 72% | 3.3 | 15 | \$2,843 | 86% | 3.8 |
| PECO | VFD on HVAC Fan | Motor w/out VFD | Warehouse | Motors | ROB | motor | 18,373 | 72% | 3.3 | 15 | \$2,843 | 86% | 3.8 |
| PECO | Elevators | Std. Eff Elevator | Warehouse | Other | ROB | measure | 89,016 | 0.3% | 0.00 | 15 | \$86 | 63% | 1.9 |
| PECO | Variable Speed Drives on Process Equipment | Constant speed control | Warehouse | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 9% | 12.4 |
| PECO | Variable Speed Drives on Process Equipment | Constant speed control | Warehouse | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 9% | 12.4 |
| PECO | Auto Off Time Switch | Lighting w/ No Controls | Warehouse | Other Int. Lighting | Existing | building | 5,910 | 24% | 0.2 | 8 | \$755 | 13% | 0.8 |
| PECO | Auto Off Time Switch | Lighting w/ No Controls | Warehouse | Other Int. Lighting | New | building | 5,910 | 7.0% | 0.07 | 8 | \$755 | 0% | 0.2 |
| PECO | Central Lighting Control System | Lighting w/ No Controls | Warehouse | Other Int. Lighting | Existing | building | 5,910 | 38% | 0.4 | 8 | \$755 | 13% | 1.3 |
| PECO | Central Lighting Control System | Lighting w/ No Controls | Warehouse | Other Int. Lighting | New | building | 5,910 | 14% | 0.1 | 8 | \$755 | 13% | 0.5 |
| PECO | Cold Cathode Screw-In Bulb | 40W Incandescent Bulb | Warehouse | Other Int. Lighting | Early | lamp | 157 | 87% | 0.03 | 10 | \$30 | 14% | 2.6 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Warehouse | Other Int. Lighting | Early | lamp | 112 | 81% | 0.02 | 10 | \$30 | 11% | 1.8 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Warehouse | Other Int. Lighting | New | lamp | 85 | 81% | 0.02 | 10 | \$21 | 14% | 1.9 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Warehouse | Other Int. Lighting | New | lamp | 85 | 81% | 0.02 | 10 | \$23 | 14% | 1.8 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Warehouse | Other Int. Lighting | New | lamp | 85 | 81% | 0.02 | 10 | \$22 | 11% | 1.8 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Warehouse | Other Int. Lighting | ROB | lamp | 112 | 81% | 0.02 | 10 | \$21 | 14% | 2.5 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Warehouse | Other Int. Lighting | ROB | lamp | 112 | 81% | 0.02 | 10 | \$23 | 14% | 2.3 |
| PECO | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Warehouse | Other Int. Lighting | ROB | lamp | 112 | 81% | 0.02 | 10 | \$22 | 11% | 2.4 |
| PECO | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Warehouse | Other Int. Lighting | Early | lamp | 157 | 75% | 0.03 | 4 | \$73 | 18% | 0.4 |
| PECO | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Warehouse | Other Int. Lighting | New | fixture | 171 | 65% | 0.02 | 13 | \$29 | 21% | 2.8 |
| PECO | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Warehouse | Other Int. Lighting | New | lamp | 85 | 65% | 0.01 | 4 | \$29 | 21% | 0.5 |
| PECO | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Warehouse | Other Int. Lighting | ROB | fixture | 225 | 65% | 0.03 | 13 | \$29 | 18% | 3.6 |
| PECO | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Warehouse | Other Int. Lighting | ROB | lamp | 112 | 65% | 0.02 | 4 | \$29 | 18% | 0.6 |
| PECO | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Warehouse | Other Int. Lighting | Early | lamp | 157 | 75% | 0.03 | 4 | \$3.2 | 20% | 9.3 |
| PECO | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Warehouse | Other Int. Lighting | New | lamp | 85 | 65% | 0.01 | 4 | \$1.8 | 20% | 7.9 |
| PECO | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Warehouse | Other Int. Lighting | ROB | lamp | 112 | 65% | 0.02 | 4 | \$1.8 | 20% | 10.4 |
| PECO | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Warehouse | Other Int. Lighting | ROB | lamp | 112 | 65% | 0.02 | 4 | \$1.8 | 20% | 10.4 |
| PECO | Exit Sign Retrofit: CFL replacing Incandescent | One 23W Single Sided Incandescent Exit Sign | Warehouse | Other Int. Lighting | Early | exit sign | 140 | 42% | 0.01 | 15 | \$48 | 22% | 0.9 |
| PECO | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Warehouse | Other Int. Lighting | New | building | 5,910 | 10% | 0.1 | 15 | \$31,316 | 32% | 0.0 |
| PECO | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Warehouse | Other Int. Lighting | New | building | 5,910 | 15% | 0.2 | 15 | \$78,291 | 32% | 0.0 |
| PECO | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Warehouse | Other Int. Lighting | New | building | 5,910 | 30% | 0.3 | 15 | \$112,217 | 32% | 0.0 |
| PECO | Indoor Daylight Sensors | Lighting w/ No Controls | Warehouse | Other Int. Lighting | Existing | building | 5,910 | 28% | 0.3 | 8 | \$3,718 | 13% | 0.2 |
| PECO | Indoor Daylight Sensors | Lighting w/ No Controls | Warehouse | Other Int. Lighting | New | building | 5,910 | 4.1% | 0.04 | 8 | \$3,718 | 0% | 0.0 |
| PECO | LED Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Warehouse | Other Int. Lighting | Early | sign | 153 | 87% | 0.02 | 15 | \$48 | 16% | 1.9 |
| PECO | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Warehouse | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 2.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|--|---|-----------|---------------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Warehouse | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 2.1 |
| PECO | LED Task Lighting/Screw-In | 1 15W CFL bulb | Warehouse | Other Int. Lighting | Early | lamp | 43 | 33% | 0.00 | 9 | \$9.6 | 20% | 0.8 |
| PECO | LED Task Lighting/Screw-In | 1 60W Incandescent Bulb | Warehouse | Other Int. Lighting | Early | lamp | 173 | 83% | 0.03 | 9 | \$9.6 | 20% | 7.9 |
| PECO | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Warehouse | Other Int. Lighting | New | lamp | 94 | 77% | 0.01 | 9 | \$7.9 | 20% | 4.8 |
| PECO | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Warehouse | Other Int. Lighting | New | lamp | 94 | 77% | 0.01 | 9 | \$7.9 | 20% | 4.8 |
| PECO | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Warehouse | Other Int. Lighting | ROB | lamp | 124 | 77% | 0.02 | 9 | \$7.9 | 20% | 6.3 |
| PECO | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Warehouse | Other Int. Lighting | ROB | lamp | 124 | 77% | 0.02 | 9 | \$7.9 | 20% | 6.3 |
| PECO | Occupancy Sensor | Lighting w/ No Controls | Warehouse | Other Int. Lighting | Existing | building | 5,910 | 24% | 0.2 | 8 | \$1,138 | 12% | 0.6 |
| PECO | Occupancy Sensor | Lighting w/ No Controls | Warehouse | Other Int. Lighting | New | building | 5,910 | 7.0% | 0.07 | 8 | \$1,138 | 0% | 0.2 |
| PECO | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Warehouse | Other Int. Lighting | Existing | building | 5,910 | 28% | 0.3 | 8 | \$3,718 | 12% | 0.2 |
| PECO | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Warehouse | Other Int. Lighting | New | building | 5,910 | 4.1% | 0.04 | 8 | \$3,718 | 0% | 0.0 |
| PECO | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Warehouse | Other Int. Lighting | Early | exit sign | 140 | 100% | 0.02 | 15 | \$173 | 26% | 0.6 |
| PECO | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Warehouse | Other Int. Lighting | New | exit sign | 81 | 100% | 0.01 | 15 | \$148 | 31% | 0.4 |
| PECO | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Warehouse | Other Int. Lighting | ROB | exit sign | 81 | 100% | 0.01 | 15 | \$148 | 26% | 0.4 |
| PECO | Time Clock Control | Lighting w/ No Controls | Warehouse | Other Int. Lighting | Existing | building | 5,910 | 28% | 0.3 | 8 | \$755 | 13% | 1.0 |
| PECO | Time Clock Control | Lighting w/ No Controls | Warehouse | Other Int. Lighting | New | building | 5,910 | 4.1% | 0.04 | 8 | \$755 | 0% | 0.1 |
| PECO | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Warehouse | Plug Load | Existing | building | 2,913 | 46% | 0.5 | 5 | \$189 | 4% | 2.6 |
| PECO | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Warehouse | Plug Load | New | building | 1,422 | 46% | 0.5 | 5 | \$189 | 4% | 1.8 |
| PECO | Data Center - Server/Storage Consolidation | No Consolidation | Warehouse | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PECO | Data Center - Server/Storage Consolidation | No Consolidation | Warehouse | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PECO | Data Center - Server/Storage Virtualization | No Virtualization | Warehouse | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PECO | Data Center - Server/Storage Virtualization | No Virtualization | Warehouse | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PECO | Energy Star - Scanners | Std Scanner | Warehouse | Plug Load | New | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| PECO | Energy Star - Scanners | Std Scanner | Warehouse | Plug Load | ROB | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| PECO | Energy Star Dishwasher | Existing Dishwasher units | Warehouse | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,580 | 1% | 1.1 |
| PECO | Energy Star Dishwasher | Standard Dishwasher unit | Warehouse | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 1% | 3.6 |
| PECO | Energy Star Dishwasher | Standard Dishwasher unit | Warehouse | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 1% | 3.6 |
| PECO | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Warehouse | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 16% | 0.2 |
| PECO | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Warehouse | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 16% | 2.3 |
| PECO | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Warehouse | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 16% | 2.3 |
| PECO | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Warehouse | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 9% | 0.8 |
| PECO | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Warehouse | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.8 |
| PECO | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Warehouse | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.8 |
| PECO | ENERGY STAR® Copiers | 10% Less Efficient Copier | Warehouse | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 17% | 0.0 |
| PECO | ENERGY STAR® Copiers | One Conventional Copier | Warehouse | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 17% | 0.0 |
| PECO | ENERGY STAR® Copiers | One Conventional Copier | Warehouse | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 17% | 0.0 |
| PECO | ENERGY STAR® desktop | Standard computer | Warehouse | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 69% | 0.1 |
| PECO | ENERGY STAR® desktop | Standard computer | Warehouse | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.4 |
| PECO | ENERGY STAR® desktop | Standard computer | Warehouse | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.4 |
| PECO | ENERGY STAR® Fax | 10% Less Efficient Fax | Warehouse | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 15% | 0.0 |
| PECO | ENERGY STAR® Fax | One Conventional Fax | Warehouse | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| PECO | ENERGY STAR® Fax | One Conventional Fax | Warehouse | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| PECO | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Warehouse | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 69% | 0.0 |
| PECO | ENERGY STAR® Monitors | One Conventional Monitor | Warehouse | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 69% | 0.0 |
| PECO | ENERGY STAR® Monitors | One Conventional Monitor | Warehouse | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 69% | 0.0 |
| PECO | ENERGY STAR® Printers | 10% Less Efficient Printer | Warehouse | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 43% | 0.0 |
| PECO | ENERGY STAR® Printers | One Conventional Printer | Warehouse | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 43% | 0.4 |
| PECO | ENERGY STAR® Printers | One Conventional Printer | Warehouse | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$130 | 43% | 0.4 |
| PECO | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Warehouse | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 43% | 0.1 |
| PECO | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Warehouse | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.8 |
| PECO | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Warehouse | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.8 |
| PECO | ENERGY STAR® Televisions | 10% Less Efficient Television | Warehouse | Plug Load | Early | Unit | 199 | 38% | 0.01 | 6 | \$672 | 41% | 0.0 |
| PECO | ENERGY STAR® Televisions | One Conventional Television | Warehouse | Plug Load | New | Unit | 181 | 32% | 0.01 | 6 | \$206 | 41% | 0.1 |
| PECO | ENERGY STAR® Televisions | One Conventional Television | Warehouse | Plug Load | ROB | Unit | 181 | 32% | 0.01 | 6 | \$206 | 41% | 0.1 |
| PECO | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Warehouse | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 24% | 0.3 |
| PECO | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Warehouse | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.7 |
| PECO | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Warehouse | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.7 |
| PECO | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Warehouse | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.3 |
| PECO | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Warehouse | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.3 |
| PECO | Network PC Power Management | No PC Power Management | Warehouse | Plug Load | Existing | building | 425 | 33% | 0.3 | 5 | \$12 | 38% | 19.8 |
| PECO | Network PC Power Management | No PC Power Management | Warehouse | Plug Load | New | building | 425 | 33% | 0.3 | 5 | \$12 | 38% | 19.8 |
| PECO | Smart Strip Plug Outlets | Standard plug strip/outlet | Warehouse | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.4 |
| PECO | Smart Strip Plug Outlets | Standard plug strip/outlet | Warehouse | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.4 |
| PECO | Smart Strip Plug Outlets | Standard plug strip/outlet | Warehouse | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PECO | Smart Strip Plug Outlets | Standard plug strip/outlet | Warehouse | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PECO | Smart Strip Plug Outlets | Standard plug strip/outlet | Warehouse | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PECO | Smart Strip Plug Outlets | Standard plug strip/outlet | Warehouse | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PECO | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Warehouse | Plug Load | Existing | building | 2,913 | 46% | 0.5 | 5 | \$180 | 3% | 2.7 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---|--|-----------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Warehouse | Plug Load | New | building | 1,422 | 46% | 0.5 | 5 | \$180 | 3% | 1.9 |
| PECO | Auto Closer on Refrigerator Door | Door w/out Autocloser | Warehouse | Refrigeration | Existing | building | 5,650 | 8.2% | 0.08 | 8 | \$642 | 40% | 0.3 |
| PECO | Auto Closer on Refrigerator Door | Door w/out Autocloser | Warehouse | Refrigeration | Existing | building | 18,788 | 3.4% | 0.03 | 8 | \$476 | 40% | 0.5 |
| PECO | Auto Closer on Refrigerator Door | Door w/out Autocloser | Warehouse | Refrigeration | New | building | 5,650 | 8.2% | 0.08 | 8 | \$642 | 40% | 0.3 |
| PECO | Auto Closer on Refrigerator Door | Door w/out Autocloser | Warehouse | Refrigeration | New | building | 18,788 | 3.4% | 0.03 | 8 | \$476 | 40% | 0.5 |
| PECO | Door Gasket- Freezer | Door w/out Gasket | Warehouse | Refrigeration | Existing | building | 5,650 | 4.4% | 0.04 | 4 | \$66 | 29% | 0.9 |
| PECO | Door Gasket- Freezer | Door w/out Gasket | Warehouse | Refrigeration | New | building | 5,650 | 4.4% | 0.04 | 4 | \$66 | 29% | 0.9 |
| PECO | Door Gasket- Refrigerator | Door w/out Gasket | Warehouse | Refrigeration | Existing | building | 18,788 | 1.1% | 0.01 | 4 | \$66 | 45% | 0.6 |
| PECO | Door Gasket- Refrigerator | Door w/out Gasket | Warehouse | Refrigeration | New | building | 18,788 | 1.1% | 0.01 | 4 | \$66 | 45% | 0.6 |
| PECO | eCube | Refrigeration unit w/out eCube | Warehouse | Refrigeration | Existing | building | 18,788 | 15% | 0.2 | 15 | \$144 | 57% | 11.4 |
| PECO | eCube | Refrigeration unit w/out eCube | Warehouse | Refrigeration | New | building | 18,788 | 15% | 0.2 | 15 | \$144 | 57% | 11.4 |
| PECO | Efficient compressor motor | Base Refrigeration System - Grocery | Warehouse | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| PECO | Efficient compressor motor | Base Refrigeration System - Grocery | Warehouse | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| PECO | Efficient compressor motor | Base Refrigeration System - Grocery | Warehouse | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| PECO | Efficient compressor motor | Base Refrigeration System - Grocery | Warehouse | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.7 |
| PECO | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Warehouse | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.6 |
| PECO | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Warehouse | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| PECO | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Warehouse | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| PECO | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Warehouse | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.3 |
| PECO | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Warehouse | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.8 |
| PECO | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Warehouse | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.8 |
| PECO | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Warehouse | Refrigeration | Existing | building | 18,788 | 0.6% | 0.01 | 10 | \$369 | 77% | 0.1 |
| PECO | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Warehouse | Refrigeration | New | building | 18,788 | 0.6% | 0.01 | 10 | \$369 | 77% | 0.1 |
| PECO | Floating head pressure controller | System w/out FHPC | Warehouse | Refrigeration | Existing | building | 5,650 | 4.1% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| PECO | Floating head pressure controller | System w/out FHPC | Warehouse | Refrigeration | Existing | building | 18,788 | 0.4% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| PECO | Floating head pressure controller | System w/out FHPC | Warehouse | Refrigeration | New | building | 5,650 | 4.1% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| PECO | Floating head pressure controller | System w/out FHPC | Warehouse | Refrigeration | New | building | 18,788 | 0.4% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| PECO | High Efficiency Commercial Freezer | Std. Commercial Freezer | Warehouse | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 86% | 0.3 |
| PECO | High Efficiency Commercial Freezer | Std. Commercial Freezer | Warehouse | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 4.2 |
| PECO | High Efficiency Commercial Freezer | Std. Commercial Freezer | Warehouse | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 4.2 |
| PECO | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Warehouse | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 2% | 0.1 |
| PECO | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Warehouse | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.9 |
| PECO | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Warehouse | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.9 |
| PECO | High Efficiency Ice Maker | Existing Standard Efficiency Ice Maker in Pennsylvania | Warehouse | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 73% | 0.2 |
| PECO | High Efficiency Ice Maker | Standard code minimum Ice Maker | Warehouse | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| PECO | High Efficiency Ice Maker | Standard code minimum Ice Maker | Warehouse | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| PECO | High Efficiency Ice Making Head | Standard Ice Making Head | Warehouse | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 4.1 |
| PECO | High Efficiency Ice Making Head | Standard Ice Making Head | Warehouse | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 4.1 |
| PECO | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Warehouse | Refrigeration | Early | Fixture | 373 | 56% | 0.02 | 8 | \$448 | 47% | 0.2 |
| PECO | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Warehouse | Refrigeration | New | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 47% | 0.3 |
| PECO | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Warehouse | Refrigeration | ROB | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 47% | 0.3 |
| PECO | Quick acting freezer doors | Std. Freezer Doors | Warehouse | Refrigeration | Existing | building | 5,650 | 13% | 0.1 | 10 | \$2,242 | 56% | 0.2 |
| PECO | Quick acting freezer doors | Std. Freezer Doors | Warehouse | Refrigeration | New | building | 5,650 | 13% | 0.1 | 10 | \$2,242 | 56% | 0.2 |
| PECO | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Warehouse | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 30% | 0.4 |
| PECO | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Warehouse | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.6 |
| PECO | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Warehouse | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.6 |
| PECO | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 30% | 1.7 |
| PECO | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 3.0 |
| PECO | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 3.0 |
| PECO | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 30% | 1.7 |
| PECO | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 4.0 |
| PECO | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 4.0 |
| PECO | Refrigeration Commissioning | Non-commissioned refrigeration system | Warehouse | Refrigeration | Existing | building | 28,252 | 9.5% | 0.10 | 3 | \$4,963 | 85% | 0.1 |
| PECO | Refrigeration Commissioning | Non-commissioned refrigeration system | Warehouse | Refrigeration | New | building | 28,252 | 9.5% | 0.10 | 3 | \$4,963 | 85% | 0.1 |
| PECO | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Warehouse | Refrigeration | Existing | building | 5,650 | 11% | 0.1 | 4 | \$80 | 22% | 1.7 |
| PECO | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Warehouse | Refrigeration | Existing | building | 18,788 | 1.5% | 0.02 | 4 | \$80 | 22% | 0.6 |
| PECO | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Warehouse | Refrigeration | New | building | 5,650 | 11% | 0.1 | 4 | \$80 | 22% | 1.7 |
| PECO | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Warehouse | Refrigeration | New | building | 18,788 | 1.5% | 0.02 | 4 | \$80 | 22% | 0.6 |
| PECO | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Warehouse | Refrigeration | Existing | building | 5,650 | 2.6% | 0.03 | 11 | \$152 | 80% | 0.5 |
| PECO | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Warehouse | Refrigeration | New | building | 5,650 | 2.6% | 0.03 | 11 | \$152 | 80% | 0.5 |
| PECO | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Warehouse | Refrigeration | Existing | building | 18,788 | 2.0% | 0.02 | 11 | \$152 | 80% | 1.1 |
| PECO | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Warehouse | Refrigeration | New | building | 18,788 | 2.0% | 0.02 | 11 | \$152 | 80% | 1.1 |
| PECO | VSD Controlled Compressor | Compressor w/out VSD | Warehouse | Refrigeration | Early | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---|---|-----------|-----------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | VSD Controlled Compressor | Compressor w/out VSD | Warehouse | Refrigeration | New | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.2 |
| PECO | VSD Controlled Compressor | Compressor w/out VSD | Warehouse | Refrigeration | ROB | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.2 |
| PECO | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Warehouse | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$269 | 35% | 0.9 |
| PECO | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Warehouse | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$269 | 35% | 0.9 |
| PECO | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Warehouse | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.2 |
| PECO | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Warehouse | Refrigeration | New | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 3.0 |
| PECO | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Warehouse | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 35% | 3.2 |
| PECO | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Warehouse | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 35% | 3.0 |
| PECO | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 35% | 2.4 |
| PECO | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 35% | 2.3 |
| PECO | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 5.2 |
| PECO | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.9 |
| PECO | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$126 | 35% | 5.2 |
| PECO | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$126 | 35% | 4.9 |
| PECO | Adding reflective roof treatment | Std color roof | Warehouse | Space Heating | Existing | building | 11,653 | 7.1% | 0.07 | 6 | \$20,967 | 82% | 0.0 |
| PECO | Adding reflective roof treatment | Std color roof | Warehouse | Space Heating | New | building | 11,653 | 7.1% | 0.07 | 6 | \$20,967 | 82% | 0.0 |
| PECO | Adding window shade film | No shade film | Warehouse | Space Heating | Existing | building | 11,653 | 1.3% | 0.4 | 10 | \$142 | 13% | 2.5 |
| PECO | Adding window shade film | No shade film | Warehouse | Space Heating | New | building | 11,653 | 1.3% | 0.4 | 10 | \$142 | 13% | 2.5 |
| PECO | Adding window shade screen | No shade screen | Warehouse | Space Heating | Existing | building | 11,653 | 1.1% | 0.01 | 10 | \$55 | 13% | 1.1 |
| PECO | Adding window shade screen | No shade screen | Warehouse | Space Heating | New | building | 11,653 | 1.1% | 0.01 | 10 | \$55 | 13% | 1.1 |
| PECO | Automated control system | Manual Controls | Warehouse | Space Heating | Existing | building | 11,653 | 17% | 0.2 | 15 | \$12,757 | 51% | 0.1 |
| PECO | Automated control system | Manual Controls | Warehouse | Space Heating | New | building | 11,653 | 17% | 0.2 | 15 | \$12,757 | 94% | 0.1 |
| PECO | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Warehouse | Space Heating | Existing | building | 11,653 | 5.9% | 0.06 | 15 | \$27,901 | 71% | 0.0 |
| PECO | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Warehouse | Space Heating | New | building | 11,653 | 3.7% | 0.04 | 15 | \$26,520 | 94% | 0.0 |
| PECO | Duct Insulation, Add R8 | No Insulation | Warehouse | Space Heating | Existing | building | 11,653 | 1.4% | 0.04 | 15 | \$93 | 20% | 1.4 |
| PECO | Duct Insulation, Add R8 | No Insulation | Warehouse | Space Heating | New | building | 11,653 | 1.4% | 0.04 | 15 | \$93 | 10% | 1.4 |
| PECO | Efficient Unit Heating System | Existing Unit Heaters in PA | Warehouse | Space Heating | Early | heater | 18,526 | 23% | 0.04 | 15 | \$3,289 | 83% | 0.7 |
| PECO | Efficient Unit Heating System | Std. Unit Heater | Warehouse | Space Heating | New | heater | 16,442 | 13% | 0.02 | 15 | \$1,991 | 83% | 0.6 |
| PECO | Efficient Unit Heating System | Std. Unit Heater | Warehouse | Space Heating | ROB | heater | 16,442 | 13% | 0.02 | 15 | \$1,991 | 83% | 0.6 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Warehouse | Space Heating | Existing | building | 11,653 | 7.1% | 0.07 | 15 | \$51,690 | 25% | 0.0 |
| PECO | Green Roof (New construction or roof replacement) | Std Roof | Warehouse | Space Heating | New | building | 11,653 | 7.1% | 0.07 | 15 | \$51,690 | 35% | 0.0 |
| PECO | Hi Eff HVAC System Design | No HVAC Design | Warehouse | Space Heating | New | building | 11,653 | 12% | 0.1 | 10 | \$131,395 | 51% | 0.0 |
| PECO | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Warehouse | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 1.1 |
| PECO | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Warehouse | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$78 | 80% | 1.1 |
| PECO | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Warehouse | Space Heating | Existing | building | 11,653 | 1.1% | 0.01 | 10 | \$7,735 | 81% | 0.0 |
| PECO | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Warehouse | Space Heating | New | building | 11,653 | 1.1% | 0.01 | 10 | \$7,735 | 81% | 0.0 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Warehouse | Space Heating | Existing | building | 11,653 | 3.6% | 0.04 | 11 | \$286 | 49% | 0.7 |
| PECO | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Warehouse | Space Heating | New | building | 11,653 | 3.1% | 0.03 | 11 | \$146 | 49% | 1.2 |
| PECO | Re-Commissioning (Existing Construction) | No Re-Commissioning | Warehouse | Space Heating | Existing | building | 11,653 | 16% | 0.2 | 5 | \$8,619 | 86% | 0.1 |
| PECO | VFD on Cooling Tower Fan | Motor w/out VFD | Warehouse | Space Heating | Early | motor | 18,724 | 70% | 3.4 | 15 | \$2,843 | 88% | 3.7 |
| PECO | VFD on Cooling Tower Fan | Motor w/out VFD | Warehouse | Space Heating | New | motor | 18,373 | 72% | 3.3 | 15 | \$2,843 | 88% | 3.7 |
| PECO | VFD on Cooling Tower Fan | Motor w/out VFD | Warehouse | Space Heating | ROB | motor | 18,373 | 72% | 3.3 | 15 | \$2,843 | 88% | 3.7 |
| PECO | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Warehouse | Space Heating | Existing | building | 11,653 | 19% | 0.2 | 15 | \$6,551 | 26% | 0.2 |
| PECO | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Warehouse | Space Heating | New | building | 11,653 | 0.6% | 0.01 | 15 | \$5,025 | 94% | 0.0 |
| PECO | Green LED Traffic Light | Green Incandescent Traffic Light | Warehouse | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 0% | 1.3 |
| PECO | Green LED Traffic Light | Green Incandescent Traffic Light | Warehouse | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.2 |
| PECO | Green LED Traffic Light | Green Incandescent Traffic Light | Warehouse | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.2 |
| PECO | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Warehouse | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 0% | 3.2 |
| PECO | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Warehouse | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| PECO | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Warehouse | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| PECO | Induction Street Lighting | One 100W HPS Street Light Fixture | Warehouse | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 0% | 0.3 |
| PECO | Induction Street Lighting | One 100W HPS Street Light Fixture | Warehouse | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.8 |
| PECO | Induction Street Lighting | One 100W HPS Street Light Fixture | Warehouse | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.8 |
| PECO | LED Street Lighting | One 100W HPS Street Light | Warehouse | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 0% | 0.2 |
| PECO | LED Street Lighting | One 100W HPS Street Light | Warehouse | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| PECO | LED Street Lighting | One 100W HPS Street Light | Warehouse | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| PECO | Red LED Traffic Light | One Red Incandescent Traffic Light | Warehouse | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 0% | 1.7 |
| PECO | Red LED Traffic Light | One Red Incandescent Traffic Light | Warehouse | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| PECO | Red LED Traffic Light | One Red Incandescent Traffic Light | Warehouse | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| PECO | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Warehouse | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 0% | 0.1 |
| PECO | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Warehouse | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| PECO | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Warehouse | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| PECO | Demand controlled Circulating Systems | Constant circulation system | Warehouse | Water Heating | Existing | building | 2,345 | 20% | 0.2 | 15 | \$426 | 59% | 1.1 |
| PECO | Demand controlled Circulating Systems | Constant circulation system | Warehouse | Water Heating | New | building | 2,345 | 20% | 0.2 | 15 | \$426 | 59% | 1.1 |
| PECO | Drainwater Heat Recovery Water Heater | No heat recovery | Warehouse | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 2.0 |
| PECO | Drainwater Heat Recovery Water Heater | No heat recovery | Warehouse | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 2.0 |
| PECO | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Warehouse | Water Heating | Existing | building | 2,345 | 5.9% | 0.06 | 12 | \$14 | 85% | 8.4 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|--|---|-----------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Warehouse | Water Heating | New | building | 2,345 | 5.9% | 0.06 | 12 | \$4.0 | 85% | 29.4 |
| PECO | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Warehouse | Water Heating | Early | water heater | 7,897 | 66% | 0.9 | 10 | \$1,187 | 29% | 2.4 |
| PECO | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Warehouse | Water Heating | Early | water heater | 7,897 | 66% | 0.9 | 10 | \$1,187 | 29% | 2.4 |
| PECO | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Warehouse | Water Heating | New | water heater | 7,897 | 66% | 0.9 | 10 | \$1,187 | 29% | 2.4 |
| PECO | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Warehouse | Water Heating | New | water heater | 7,897 | 66% | 0.9 | 10 | \$1,187 | 29% | 2.4 |
| PECO | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Warehouse | Water Heating | ROB | water heater | 7,678 | 65% | 0.9 | 10 | \$1,187 | 29% | 2.3 |
| PECO | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Warehouse | Water Heating | ROB | water heater | 7,678 | 65% | 0.9 | 10 | \$1,187 | 29% | 2.3 |
| PECO | Heat Recovery Unit | Base Water Heating | Warehouse | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.7 |
| PECO | Heat Recovery Unit | Base Water Heating | Warehouse | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.7 |
| PECO | Heat Trap | No Heat Trap | Warehouse | Water Heating | New | building | 2,345 | 22% | 0.2 | 11 | \$2.4 | 21% | 174.1 |
| PECO | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Warehouse | Water Heating | Early | water heater | 7,897 | 5.9% | 0.08 | 15 | \$307 | 36% | 1.1 |
| PECO | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Warehouse | Water Heating | Early | water heater | 7,897 | 5.9% | 0.08 | 15 | \$307 | 36% | 1.1 |
| PECO | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Warehouse | Water Heating | New | water heater | 7,678 | 3.2% | 0.04 | 15 | \$307 | 36% | 0.6 |
| PECO | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Warehouse | Water Heating | New | water heater | 7,678 | 3.2% | 0.04 | 15 | \$307 | 36% | 0.6 |
| PECO | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Warehouse | Water Heating | ROB | water heater | 7,678 | 3.2% | 0.04 | 15 | \$307 | 36% | 0.6 |
| PECO | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Warehouse | Water Heating | ROB | water heater | 7,678 | 3.2% | 0.04 | 15 | \$307 | 36% | 0.6 |
| PECO | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Warehouse | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$466 | 81% | 41.5 |
| PECO | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Warehouse | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 21.6 |
| PECO | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Warehouse | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 21.6 |
| PECO | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Warehouse | Water Heating | Existing | building | 2,345 | 0.8% | 0.01 | 13 | \$3.0 | 30% | 5.7 |
| PECO | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Warehouse | Water Heating | New | building | 2,345 | 0.8% | 0.01 | 13 | \$3.0 | 0% | 5.7 |
| PECO | Hot Water Circulation Pump Time-Clock | Constant circulation system | Warehouse | Water Heating | Existing | building | 2,345 | 5.3% | 0.05 | 10 | \$9.5 | 72% | 9.7 |
| PECO | Hot Water Circulation Pump Time-Clock | Constant circulation system | Warehouse | Water Heating | New | building | 2,345 | 5.3% | 0.05 | 10 | \$9.5 | 72% | 9.7 |
| PECO | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Warehouse | Water Heating | Existing | building | 2,345 | 1.2% | 0.01 | 7 | \$22 | 35% | 0.7 |
| PECO | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Warehouse | Water Heating | New | building | 2,345 | 1.1% | 0.01 | 7 | \$0.5 | 35% | 28.6 |
| PECO | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Warehouse | Water Heating | Existing | building | 2,345 | 8.0% | 0.08 | 5 | \$300 | 0% | 0.3 |
| PECO | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Warehouse | Water Heating | New | building | 2,345 | 5.3% | 0.05 | 5 | \$194 | 0% | 0.3 |
| PECO | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Warehouse | Water Heating | Existing | building | 2,345 | 6.5% | 0.07 | 9 | \$25 | 2% | 4.1 |
| PECO | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Warehouse | Water Heating | New | building | 2,345 | 6.5% | 0.07 | 9 | \$6.0 | 2% | 17.2 |
| PECO | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Warehouse | Water Heating | Early | water heater | 7,897 | 52% | 0.3 | 15 | \$6,222 | 14% | 0.4 |
| PECO | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Warehouse | Water Heating | New | water heater | 7,678 | 51% | 0.3 | 15 | \$6,222 | 14% | 0.4 |
| PECO | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Warehouse | Water Heating | ROB | water heater | 7,678 | 51% | 0.3 | 15 | \$6,222 | 14% | 0.4 |
| PECO | Ultrasonic Faucet Control | Manual Faucet Control | Warehouse | Water Heating | Existing | building | 2,345 | 3.1% | 0.03 | 10 | \$406 | 54% | 0.1 |
| PECO | Ultrasonic Faucet Control | Manual Faucet Control | Warehouse | Water Heating | New | building | 2,345 | 3.1% | 0.03 | 10 | \$406 | 54% | 0.1 |
| PECO | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Warehouse | Water Heating | Existing | building | 2,345 | 2.2% | 0.02 | 4 | \$28 | 35% | 0.6 |
| PECO | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Warehouse | Water Heating | New | building | 2,345 | 2.3% | 0.02 | 4 | \$28 | 35% | 0.6 |
| PPL | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Education | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.1 |
| PPL | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Education | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.1 |
| PPL | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Education | Cooking | Early | steamer | 43 | 48% | 0.00 | 12 | \$5,103 | 81% | 0.0 |
| PPL | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Education | Cooking | New | steamer | 34 | 34% | 0.00 | 12 | \$601 | 81% | 0.0 |
| PPL | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Education | Cooking | ROB | steamer | 34 | 34% | 0.00 | 12 | \$601 | 81% | 0.0 |
| PPL | Electric combination oven (Energy Star) | Standard Oven | Education | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.9 |
| PPL | Electric combination oven (Energy Star) | Standard Oven | Education | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.9 |
| PPL | Electric Convection Oven | Conventional convection oven w/ 65% efficiency | Education | Cooking | Early | oven | 6,481 | 37% | 0.5 | 12 | \$4,169 | 81% | 0.3 |
| PPL | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Education | Cooking | New | oven | 5,186 | 22% | 0.2 | 12 | \$1,113 | 81% | 0.6 |
| PPL | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Education | Cooking | ROB | oven | 5,186 | 22% | 0.2 | 12 | \$1,113 | 81% | 0.6 |
| PPL | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Education | Cooking | Early | fryer | 4,591 | 24% | 0.2 | 12 | \$9,291 | 86% | 0.1 |
| PPL | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Education | Cooking | New | fryer | 4,591 | 24% | 0.2 | 12 | \$2,366 | 86% | 0.3 |
| PPL | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Education | Cooking | ROB | fryer | 4,591 | 24% | 0.2 | 12 | \$2,366 | 86% | 0.3 |
| PPL | High Efficiency Griddle (ENERGY STAR) | Efficiency code minimum griddle (70% eff) | Education | Cooking | Early | griddle | 8,725 | 67% | 1.1 | 12 | \$4,992 | 86% | 0.7 |
| PPL | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Education | Cooking | New | griddle | 5,556 | 48% | 0.5 | 12 | \$1,700 | 86% | 0.9 |
| PPL | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Education | Cooking | ROB | griddle | 5,556 | 48% | 0.5 | 12 | \$1,700 | 86% | 0.9 |
| PPL | High Efficiency Induction Cooking | Standard Cooking | Education | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| PPL | High Efficiency Induction Cooking | Standard Cooking | Education | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| PPL | Adding reflective roof treatment | Std color roof | Education | Cooling Central | Existing | building | 9,648 | 7.0% | 0.07 | 6 | \$19,619 | 82% | 0.0 |
| PPL | Adding reflective roof treatment | Std color roof | Education | Cooling Central | New | building | 9,648 | 7.0% | 0.07 | 6 | \$19,619 | 82% | 0.0 |
| PPL | Adding window shade film | No shade film | Education | Cooling Central | Existing | building | 9,648 | 1.3% | 0.4 | 10 | \$117 | 12% | 2.1 |
| PPL | Adding window shade film | No shade film | Education | Cooling Central | New | building | 9,648 | 1.3% | 0.4 | 10 | \$117 | 13% | 2.1 |
| PPL | Adding window shade screen | No shade screen | Education | Cooling Central | Existing | building | 9,648 | 1.0% | 0.01 | 10 | \$45 | 13% | 0.9 |
| PPL | Adding window shade screen | No shade screen | Education | Cooling Central | New | building | 9,648 | 1.1% | 0.01 | 10 | \$45 | 13% | 0.9 |
| PPL | Automated control system | Manual Controls | Education | Cooling Central | Existing | building | 9,648 | 17% | 0.2 | 15 | \$10,562 | 51% | 0.1 |
| PPL | Automated control system | Manual Controls | Education | Cooling Central | New | building | 9,648 | 17% | 0.2 | 15 | \$10,562 | 94% | 0.1 |
| PPL | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Education | Cooling Central | Existing | building | 9,648 | 1.6% | 0.02 | 15 | \$26,439 | 71% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|--|-----------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Education | Cooling Central | New | building | 9,648 | 0.5% | 0.01 | 15 | \$25,131 | 94% | 0.0 |
| PPL | Chiller Tuneup/Diagnostics | No tuneup | Education | Cooling Central | Existing | building | 9,648 | 8.0% | 0.08 | 10 | \$24,635 | 59% | 0.0 |
| PPL | Chiller Tuneup/Diagnostics | No tuneup | Education | Cooling Central | New | building | 9,648 | 8.0% | 0.08 | 10 | \$24,635 | 59% | 0.0 |
| PPL | Commercial energy recovery ventilation systems | No Commercial Recovery System | Education | Cooling Central | Existing | building | 9,648 | 16% | 0.2 | 14 | \$8,718 | 71% | 0.1 |
| PPL | Cooling Tower Optimization | No Cooling Tower Optimization | Education | Cooling Central | Existing | building | 9,648 | 20% | 0.2 | 10 | \$59 | 69% | 13.4 |
| PPL | Duct Insulation, Add R8 | No Insulation | Education | Cooling Central | Existing | building | 9,648 | 1.4% | 0.04 | 15 | \$77 | 20% | 1.3 |
| PPL | Duct Insulation, Add R8 | No Insulation | Education | Cooling Central | New | building | 9,648 | 1.4% | 0.04 | 15 | \$77 | 10% | 1.3 |
| PPL | Facility Commissioning | No Facility Commissioning | Education | Cooling Central | New | building | 9,648 | 16% | 0.2 | 10 | \$5,327 | 89% | 0.1 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Education | Cooling Central | Existing | building | 9,648 | 7.0% | 0.07 | 15 | \$42,795 | 25% | 0.0 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Education | Cooling Central | New | building | 9,648 | 7.0% | 0.07 | 15 | \$42,795 | 35% | 0.0 |
| PPL | Hi Eff HVAC System Design | No HVAC Design | Education | Cooling Central | New | building | 9,648 | 14% | 0.1 | 10 | \$79,063 | 51% | 0.0 |
| PPL | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Education | Cooling Central | Early | ton | 5,232 | 24% | 0.4 | 15 | \$108,550 | 88% | 0.0 |
| PPL | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Education | Cooling Central | New | ton | 4,277 | 6.7% | 0.10 | 15 | \$12,927 | 88% | 0.0 |
| PPL | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Education | Cooling Central | ROB | ton | 4,277 | 6.7% | 0.10 | 15 | \$12,927 | 88% | 0.0 |
| PPL | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Education | Cooling Central | Early | ton | 7,818 | 23% | 0.6 | 15 | \$140,105 | 88% | 0.0 |
| PPL | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Education | Cooling Central | New | ton | 6,290 | 4.9% | 0.1 | 15 | \$9,336 | 88% | 0.0 |
| PPL | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Education | Cooling Central | ROB | ton | 6,290 | 4.9% | 0.1 | 15 | \$9,336 | 88% | 0.0 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Education | Cooling Central | Early | ton | 64,004 | 26% | 5.8 | 15 | \$105,354 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Education | Cooling Central | New | ton | 55,766 | 15% | 2.9 | 15 | \$30,530 | 88% | 0.2 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Education | Cooling Central | ROB | ton | 55,766 | 15% | 2.9 | 15 | \$30,530 | 88% | 0.2 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Education | Cooling Central | Early | ton | 95,860 | 23% | 7.6 | 15 | \$154,107 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Education | Cooling Central | New | ton | 88,060 | 16% | 4.9 | 15 | \$27,646 | 88% | 0.4 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Education | Cooling Central | ROB | ton | 88,060 | 16% | 4.9 | 15 | \$27,646 | 88% | 0.4 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Education | Cooling Central | Early | ton | 159,206 | 23% | 12.5 | 15 | \$302,924 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Education | Cooling Central | New | ton | 144,093 | 14% | 7.2 | 15 | \$115,432 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Education | Cooling Central | ROB | ton | 144,093 | 14% | 7.2 | 15 | \$115,432 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Education | Cooling Central | Early | ton | 191,047 | 23% | 15.0 | 15 | \$350,154 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Education | Cooling Central | New | ton | 172,911 | 14% | 8.7 | 15 | \$120,406 | 88% | 0.2 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Education | Cooling Central | ROB | ton | 172,911 | 14% | 8.7 | 15 | \$120,406 | 88% | 0.2 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Education | Cooling Central | Early | ton | 42,347 | 29% | 4.3 | 15 | \$83,632 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Education | Cooling Central | New | ton | 32,882 | 8.9% | 1.0 | 15 | \$40,211 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Education | Cooling Central | ROB | ton | 32,882 | 8.9% | 1.0 | 15 | \$40,211 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Education | Cooling Central | Early | ton | 72,763 | 35% | 8.8 | 15 | \$132,173 | 88% | 0.2 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Education | Cooling Central | New | ton | 54,269 | 13% | 2.4 | 15 | \$39,556 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Education | Cooling Central | ROB | ton | 54,269 | 13% | 2.4 | 15 | \$39,556 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Education | Cooling Central | Early | ton | 121,484 | 39% | 16.5 | 15 | \$187,029 | 88% | 0.2 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Education | Cooling Central | New | ton | 86,616 | 15% | 4.4 | 15 | \$33,554 | 88% | 0.3 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Education | Cooling Central | ROB | ton | 86,616 | 15% | 4.4 | 15 | \$33,554 | 88% | 0.3 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Education | Cooling Central | Early | ton | 21,258 | 30% | 2.2 | 15 | \$32,398 | 88% | 0.2 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Education | Cooling Central | New | ton | 16,842 | 11% | 0.7 | 15 | \$7,188 | 88% | 0.2 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Education | Cooling Central | ROB | ton | 16,842 | 11% | 0.7 | 15 | \$7,188 | 88% | 0.2 |
| PPL | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Education | Cooling Central | Existing | building | 9,648 | 3.5% | 0.04 | 10 | \$1,851 | 81% | 0.1 |
| PPL | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Education | Cooling Central | New | building | 9,648 | 3.5% | 0.04 | 10 | \$1,851 | 81% | 0.1 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Education | Cooling Central | Existing | building | 9,648 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.3 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Education | Cooling Central | New | building | 9,648 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.5 |
| PPL | Re-Commissioning (Existing Construction) | No Re-Commissioning | Education | Cooling Central | Existing | building | 9,648 | 16% | 0.2 | 5 | \$9,680 | 86% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|---|-----------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Education | Cooling Central | Existing | building | 9,648 | 3.6% | 0.04 | 15 | \$6,377 | 26% | 0.0 |
| PPL | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Education | Cooling Central | New | building | 9,648 | 0.1% | 0.00 | 15 | \$4,891 | 94% | 0.0 |
| PPL | <65k BTU/hr 14 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Education | Cooling Unitary | Early | ton | 1,272 | 16% | 0.1 | 15 | \$1,545 | 29% | 0.1 |
| PPL | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Education | Cooling Unitary | New | ton | 1,152 | 7.1% | 0.05 | 15 | \$339 | 29% | 0.2 |
| PPL | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Education | Cooling Unitary | ROB | ton | 1,152 | 7.1% | 0.05 | 15 | \$339 | 29% | 0.2 |
| PPL | <65k BTU/hr 15 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Education | Cooling Unitary | Early | ton | 1,272 | 22% | 0.10 | 15 | \$1,821 | 30% | 0.1 |
| PPL | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Education | Cooling Unitary | New | ton | 1,152 | 13% | 0.2 | 15 | \$714 | 30% | 0.3 |
| PPL | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Education | Cooling Unitary | ROB | ton | 1,152 | 13% | 0.2 | 15 | \$714 | 30% | 0.3 |
| PPL | <65k BTU/hr 16 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Education | Cooling Unitary | Early | ton | 1,272 | 26% | 0.2 | 15 | \$2,098 | 31% | 0.2 |
| PPL | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Education | Cooling Unitary | New | ton | 1,152 | 19% | 0.1 | 15 | \$1,089 | 31% | 0.2 |
| PPL | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Education | Cooling Unitary | ROB | ton | 1,152 | 19% | 0.1 | 15 | \$1,089 | 31% | 0.2 |
| PPL | >760k min 10.2 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Education | Cooling Unitary | Early | ton | 32,181 | 3.7% | 0.8 | 15 | \$68,066 | 56% | 0.0 |
| PPL | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Education | Cooling Unitary | New | ton | 32,594 | 4.9% | 1.0 | 15 | \$6,231 | 56% | 0.3 |
| PPL | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Education | Cooling Unitary | ROB | ton | 32,594 | 4.9% | 1.0 | 15 | \$6,231 | 56% | 0.3 |
| PPL | 135-240k min 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Education | Cooling Unitary | Early | ton | 7,563 | 18% | 0.9 | 15 | \$18,135 | 79% | 0.1 |
| PPL | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Education | Cooling Unitary | New | ton | 6,880 | 10.0% | 0.5 | 15 | \$1,948 | 79% | 0.4 |
| PPL | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Education | Cooling Unitary | ROB | ton | 6,880 | 10.0% | 0.5 | 15 | \$1,948 | 79% | 0.4 |
| PPL | 240k-760k min 11 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Education | Cooling Unitary | Early | ton | 21,172 | 9.0% | 1.2 | 15 | \$44,809 | 66% | 0.0 |
| PPL | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Education | Cooling Unitary | New | ton | 21,224 | 9.3% | 1.2 | 15 | \$4,813 | 66% | 0.4 |
| PPL | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Education | Cooling Unitary | ROB | ton | 21,224 | 9.3% | 1.2 | 15 | \$4,813 | 66% | 0.4 |
| PPL | 65k-135k BTU/hr 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Education | Cooling Unitary | Early | ton | 4,668 | 17% | 0.5 | 15 | \$10,946 | 86% | 0.1 |
| PPL | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Education | Cooling Unitary | New | ton | 4,160 | 6.7% | 0.2 | 15 | \$1,392 | 86% | 0.2 |
| PPL | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Education | Cooling Unitary | ROB | ton | 4,160 | 6.7% | 0.2 | 15 | \$1,392 | 86% | 0.2 |
| PPL | Adding reflective roof treatment | Std color roof | Education | Cooling Unitary | Existing | building | 143,218 | 7.1% | 0.07 | 6 | \$19,619 | 82% | 0.1 |
| PPL | Adding reflective roof treatment | Std color roof | Education | Cooling Unitary | New | building | 143,218 | 7.0% | 0.07 | 6 | \$19,619 | 82% | 0.1 |
| PPL | Adding window shade film | No shade film | Education | Cooling Unitary | Existing | building | 143,218 | 1.3% | 0.4 | 10 | \$1,743 | 12% | 0.5 |
| PPL | Adding window shade film | No shade film | Education | Cooling Unitary | New | building | 143,218 | 1.3% | 0.4 | 10 | \$1,743 | 13% | 0.5 |
| PPL | Adding window shade screen | No shade screen | Education | Cooling Unitary | Existing | building | 143,218 | 1.1% | 0.01 | 10 | \$674 | 12% | 0.8 |
| PPL | Adding window shade screen | No shade screen | Education | Cooling Unitary | New | building | 143,218 | 1.1% | 0.01 | 10 | \$674 | 13% | 0.8 |
| PPL | Automated control system | Manual Controls | Education | Cooling Unitary | Existing | building | 143,218 | 17% | 0.2 | 15 | \$156,790 | 51% | 0.1 |
| PPL | Automated control system | Manual Controls | Education | Cooling Unitary | New | building | 143,218 | 17% | 0.2 | 15 | \$156,790 | 94% | 0.1 |
| PPL | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Education | Cooling Unitary | Existing | building | 143,218 | 1.6% | 0.02 | 15 | \$26,439 | 71% | 0.0 |
| PPL | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Education | Cooling Unitary | New | building | 143,218 | 0.5% | 0.01 | 15 | \$25,131 | 94% | 0.0 |
| PPL | Commercial energy recovery ventilation systems | No Commercial Recovery System | Education | Cooling Unitary | Existing | building | 143,218 | 16% | 0.2 | 14 | \$129,418 | 71% | 0.1 |
| PPL | Duct Insulation, Add R8 | No Insulation | Education | Cooling Unitary | Existing | building | 143,218 | 1.4% | 0.04 | 15 | \$1,138 | 20% | 1.0 |
| PPL | Duct Insulation, Add R8 | No Insulation | Education | Cooling Unitary | New | building | 143,218 | 1.4% | 0.04 | 15 | \$1,138 | 10% | 1.0 |
| PPL | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Education | Cooling Unitary | Existing | building | 78,265 | 13% | 0.1 | 1 | \$750 | 73% | 0.7 |
| PPL | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Education | Cooling Unitary | New | building | 78,265 | 13% | 0.1 | 1 | \$750 | 73% | 0.7 |
| PPL | ECM Motors for split systems | Std Shaded Pole Motor | Education | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.6 |
| PPL | ECM Motors for split systems | Std Shaded Pole Motor | Education | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.6 |
| PPL | Facility Commissioning | No Facility Commissioning | Education | Cooling Unitary | New | building | 143,218 | 16% | 0.2 | 10 | \$2,325 | 89% | 3.7 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Education | Cooling Unitary | Existing | building | 143,218 | 7.1% | 0.07 | 15 | \$635,281 | 25% | 0.0 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Education | Cooling Unitary | New | building | 143,218 | 7.1% | 0.07 | 15 | \$635,281 | 35% | 0.0 |
| PPL | Hi Eff HVAC System Design | No HVAC Design | Education | Cooling Unitary | New | building | 143,218 | 14% | 0.1 | 10 | \$9,991 | 51% | 0.7 |
| PPL | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Education | Cooling Unitary | Existing | building | 143,218 | 5.0% | 0.05 | 5 | \$225 | 59% | 6.7 |
| PPL | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Education | Cooling Unitary | Existing | building | 143,218 | 3.5% | 0.04 | 10 | \$1,989 | 86% | 0.9 |
| PPL | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Education | Cooling Unitary | New | building | 143,218 | 3.5% | 0.04 | 10 | \$1,989 | 86% | 0.9 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) | Education | Cooling Unitary | Existing | building | 143,218 | 2.0% | 0.02 | 11 | \$286 | 49% | 4.1 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Education | Cooling Unitary | New | building | 143,218 | 1.7% | 0.02 | 11 | \$146 | 49% | 6.9 |
| PPL | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Education | Cooling Unitary | Early | unit | 430 | 19% | 0.05 | 15 | \$849 | 85% | 0.1 |
| PPL | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Education | Cooling Unitary | New | unit | 435 | 20% | 0.06 | 15 | \$356 | 85% | 0.2 |
| PPL | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Education | Cooling Unitary | ROB | unit | 435 | 20% | 0.06 | 15 | \$356 | 85% | 0.2 |
| PPL | Re-Commissioning (Existing Construction) | No Re-Commissioning | Education | Cooling Unitary | Existing | building | 143,218 | 16% | 0.2 | 5 | \$9,680 | 86% | 0.5 |
| PPL | Room AC (w/ louvered sides) | Exisiting efficiency Room AC in Pennsylvania (2000 Federal Standards) | Education | Cooling Unitary | Early | ton | 600 | 13% | 0.03 | 9 | \$348 | 82% | 0.1 |
| PPL | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Education | Cooling Unitary | New | ton | 544 | 4.5% | 0.01 | 9 | \$17 | 82% | 0.7 |
| PPL | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Education | Cooling Unitary | ROB | ton | 544 | 4.5% | 0.01 | 9 | \$17 | 82% | 0.7 |
| PPL | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Education | Cooling Unitary | Existing | building | 143,218 | 3.6% | 0.04 | 15 | \$6,377 | 26% | 0.4 |
| PPL | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Education | Cooling Unitary | New | building | 143,218 | 0.1% | 0.00 | 15 | \$4,891 | 94% | 0.0 |
| PPL | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Education | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 1.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|---|-----------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Education | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.5 |
| PPL | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Education | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.5 |
| PPL | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Education | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 0% | 0.2 |
| PPL | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Education | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| PPL | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Education | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| PPL | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Education | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 75% | 0.3 |
| PPL | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Education | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 75% | 0.2 |
| PPL | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Education | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.8 |
| PPL | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Education | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.1 |
| PPL | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Education | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.8 |
| PPL | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Education | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.1 |
| PPL | Photocell Controls (Outdoor) | Lighting w/ No Controls | Education | Ext. Lighting | Existing | building | 2,654 | 28% | 0.3 | 8 | \$15,932 | 88% | 0.0 |
| PPL | Photocell Controls (Outdoor) | Lighting w/ No Controls | Education | Ext. Lighting | New | building | 2,654 | 28% | 0.3 | 8 | \$15,932 | 0% | 0.0 |
| PPL | Adding reflective roof treatment | Std color roof | Education | Heat Pump | Existing | building | 14,878 | 6.9% | 0.07 | 6 | \$19,619 | 82% | 0.0 |
| PPL | Adding reflective roof treatment | Std color roof | Education | Heat Pump | New | building | 14,878 | 6.9% | 0.07 | 6 | \$19,619 | 82% | 0.0 |
| PPL | Adding window shade film | No shade film | Education | Heat Pump | Existing | building | 14,878 | 3.9% | 0.4 | 10 | \$181 | 12% | 2.3 |
| PPL | Adding window shade film | No shade film | Education | Heat Pump | New | building | 14,878 | 3.9% | 0.4 | 10 | \$181 | 12% | 2.3 |
| PPL | Adding window shade screen | No shade screen | Education | Heat Pump | Existing | building | 14,878 | 0.3% | 0.01 | 10 | \$70 | 12% | 0.9 |
| PPL | Adding window shade screen | No shade screen | Education | Heat Pump | New | building | 14,878 | 0.3% | 0.01 | 10 | \$70 | 12% | 0.9 |
| PPL | Automated control system | Manual Controls | Education | Heat Pump | Existing | building | 14,878 | 17% | 0.2 | 15 | \$16,288 | 51% | 0.1 |
| PPL | Automated control system | Manual Controls | Education | Heat Pump | New | building | 14,878 | 17% | 0.2 | 15 | \$16,288 | 94% | 0.1 |
| PPL | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Education | Heat Pump | Existing | building | 14,878 | 1.6% | 0.02 | 15 | \$26,439 | 71% | 0.0 |
| PPL | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Education | Heat Pump | New | building | 14,878 | 0.5% | 0.01 | 15 | \$25,131 | 94% | 0.0 |
| PPL | Commercial energy recovery ventilation systems | No Commercial Recovery System | Education | Heat Pump | Existing | building | 14,878 | 16% | 0.2 | 14 | \$625,511 | 71% | 0.0 |
| PPL | Duct Insulation, Add R8 | No Insulation | Education | Heat Pump | Existing | building | 14,878 | 4.0% | 0.04 | 15 | \$118 | 12% | 3.0 |
| PPL | Duct Insulation, Add R8 | No Insulation | Education | Heat Pump | New | building | 14,878 | 4.0% | 0.04 | 15 | \$118 | 6% | 3.0 |
| PPL | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Education | Heat Pump | Early | heat pump | 1,530 | 11% | 0.02 | 15 | \$4,070 | 83% | 0.0 |
| PPL | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Education | Heat Pump | New | heat pump | 1,474 | 7.9% | 0.01 | 15 | \$1,097 | 83% | 0.1 |
| PPL | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Education | Heat Pump | ROB | heat pump | 1,474 | 7.9% | 0.01 | 15 | \$1,097 | 83% | 0.1 |
| PPL | Facility Commissioning | No Facility Commissioning | Education | Heat Pump | New | building | 14,878 | 16% | 0.2 | 10 | \$5,327 | 89% | 0.2 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Education | Heat Pump | Existing | building | 14,878 | 7.0% | 0.07 | 15 | \$65,996 | 25% | 0.0 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Education | Heat Pump | New | building | 14,878 | 7.0% | 0.07 | 15 | \$65,996 | 35% | 0.0 |
| PPL | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Education | Heat Pump | Early | heat pump | 15,494 | 14% | 0.2 | 15 | \$91,117 | 19% | 0.0 |
| PPL | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Education | Heat Pump | New | heat pump | 15,060 | 11% | 0.1 | 15 | \$33,927 | 19% | 0.0 |
| PPL | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Education | Heat Pump | ROB | heat pump | 15,060 | 11% | 0.1 | 15 | \$33,927 | 19% | 0.0 |
| PPL | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Education | Heat Pump | Early | heat pump | 15,494 | 14% | 0.2 | 15 | \$58,356 | 19% | 0.0 |
| PPL | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Education | Heat Pump | New | heat pump | 15,060 | 11% | 0.1 | 15 | \$1,167 | 19% | 0.9 |
| PPL | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Education | Heat Pump | ROB | heat pump | 15,060 | 11% | 0.1 | 15 | \$1,167 | 19% | 0.9 |
| PPL | Hi Eff HVAC System Design | No HVAC Design | Education | Heat Pump | New | building | 14,878 | 14% | 0.1 | 10 | \$79,063 | 51% | 0.0 |
| PPL | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Education | Heat Pump | Early | heat pump | 4,080 | 15% | 0.05 | 12 | \$4,298 | 81% | 0.1 |
| PPL | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Education | Heat Pump | Early | heat pump | 4,080 | 26% | 0.09 | 12 | \$5,883 | 81% | 0.1 |
| PPL | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Education | Heat Pump | New | heat pump | 3,930 | 12% | 0.04 | 12 | \$852 | 81% | 0.3 |
| PPL | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Education | Heat Pump | New | heat pump | 3,930 | 23% | 0.08 | 12 | \$2,437 | 81% | 0.2 |
| PPL | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Education | Heat Pump | ROB | heat pump | 3,930 | 12% | 0.04 | 12 | \$852 | 81% | 0.3 |
| PPL | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Education | Heat Pump | ROB | heat pump | 3,930 | 23% | 0.08 | 12 | \$2,437 | 81% | 0.2 |
| PPL | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Education | Heat Pump | Existing | building | 14,878 | 3.5% | 0.04 | 10 | \$1,771 | 81% | 0.1 |
| PPL | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Education | Heat Pump | New | building | 14,878 | 3.5% | 0.04 | 10 | \$1,771 | 81% | 0.1 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Education | Heat Pump | Existing | building | 14,878 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.6 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Education | Heat Pump | New | building | 14,878 | 2.1% | 0.02 | 11 | \$146 | 49% | 1.0 |
| PPL | Re-Commissioning (Existing Construction) | No Re-Commissioning | Education | Heat Pump | Existing | building | 14,878 | 16% | 0.2 | 5 | \$9,680 | 86% | 0.1 |
| PPL | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Education | Heat Pump | New | measure | 1,891,834 | 2.0% | 4.3 | 13 | \$238,160 | 43% | 0.1 |
| PPL | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Education | Heat Pump | ROB | measure | 1,891,834 | 2.0% | 4.3 | 13 | \$238,160 | 43% | 0.1 |
| PPL | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Education | Heat Pump | Existing | building | 14,878 | 3.6% | 0.04 | 15 | \$6,377 | 26% | 0.0 |
| PPL | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Education | Heat Pump | New | building | 14,878 | 0.1% | 0.00 | 15 | \$4,891 | 94% | 0.0 |
| PPL | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Education | Heat Pump | Early | heat pump | 6,683 | 38% | 0.2 | 15 | \$35,347 | 28% | 0.0 |
| PPL | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Education | Heat Pump | New | heat pump | 6,436 | 35% | 0.2 | 15 | \$15,739 | 28% | 0.1 |
| PPL | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Education | Heat Pump | ROB | heat pump | 6,436 | 35% | 0.2 | 15 | \$15,739 | 28% | 0.1 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Education | High Bay Lighting | Early | Fixture | 499 | 9.6% | 0.01 | 13 | \$875 | 39% | 0.0 |
| PPL | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Education | High Bay Lighting | Early | Fixture | 499 | 9.5% | 0.01 | 13 | \$875 | 28% | 0.0 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Education | High Bay Lighting | Early | Fixture | 770 | 41% | 0.07 | 13 | \$875 | 36% | 0.2 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Education | High Bay Lighting | New | Fixture | 379 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Education | High Bay Lighting | New | Fixture | 353 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|---|-----------|-------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Education | High Bay Lighting | New | Fixture | 585 | 41% | 0.05 | 13 | \$397 | 36% | 0.4 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Education | High Bay Lighting | ROB | Fixture | 499 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Education | High Bay Lighting | ROB | Fixture | 465 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Education | High Bay Lighting | ROB | Fixture | 770 | 41% | 0.07 | 13 | \$397 | 36% | 0.5 |
| PPL | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Education | High Bay Lighting | Early | Fixture | 969 | 19% | 0.04 | 13 | \$877 | 38% | 0.1 |
| PPL | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Education | High Bay Lighting | Early | Fixture | 981 | 20% | 0.04 | 13 | \$877 | 38% | 0.1 |
| PPL | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | Early | Fixture | 2,855 | 73% | 0.5 | 13 | \$877 | 38% | 1.5 |
| PPL | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Education | High Bay Lighting | New | Fixture | 737 | 19% | 0.03 | 13 | \$372 | 38% | 0.2 |
| PPL | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | New | Fixture | 2,170 | 73% | 0.4 | 13 | \$383 | 38% | 2.7 |
| PPL | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Education | High Bay Lighting | ROB | Fixture | 969 | 19% | 0.04 | 13 | \$372 | 38% | 0.3 |
| PPL | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | ROB | Fixture | 2,855 | 73% | 0.5 | 13 | \$383 | 38% | 3.5 |
| PPL | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Education | High Bay Lighting | Early | Fixture | 969 | 25% | 0.05 | 13 | \$580 | 29% | 0.3 |
| PPL | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Education | High Bay Lighting | Early | Fixture | 951 | 23% | 0.05 | 13 | \$580 | 28% | 0.2 |
| PPL | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | Early | Fixture | 2,855 | 74% | 0.5 | 13 | \$580 | 36% | 2.4 |
| PPL | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Education | High Bay Lighting | New | Fixture | 737 | 25% | 0.04 | 13 | \$75 | 29% | 1.6 |
| PPL | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | New | Fixture | 2,170 | 74% | 0.4 | 13 | \$86 | 36% | 12.1 |
| PPL | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Education | High Bay Lighting | ROB | Fixture | 969 | 25% | 0.05 | 13 | \$75 | 29% | 2.1 |
| PPL | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | ROB | Fixture | 2,855 | 74% | 0.5 | 13 | \$86 | 36% | 16.0 |
| PPL | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Education | High Bay Lighting | Early | Fixture | 253 | 0.2% | 0.00 | 13 | \$861 | 38% | 0.0 |
| PPL | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Education | High Bay Lighting | Early | Fixture | 544 | 54% | 0.07 | 13 | \$861 | 38% | 0.2 |
| PPL | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Education | High Bay Lighting | New | Fixture | 414 | 54% | 0.05 | 13 | \$382 | 38% | 0.4 |
| PPL | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Education | High Bay Lighting | ROB | Fixture | 544 | 54% | 0.07 | 13 | \$382 | 38% | 0.5 |
| PPL | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Education | High Bay Lighting | Early | Fixture | 1,235 | 18% | 0.05 | 13 | \$512 | 25% | 0.3 |
| PPL | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Education | High Bay Lighting | Early | Fixture | 1,291 | 22% | 0.06 | 13 | \$512 | 28% | 0.4 |
| PPL | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | Early | Fixture | 2,855 | 65% | 0.4 | 13 | \$512 | 36% | 2.3 |
| PPL | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Education | High Bay Lighting | New | Fixture | 938 | 18% | 0.04 | 13 | \$16 | 25% | 6.8 |
| PPL | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | New | Fixture | 2,170 | 65% | 0.3 | 13 | \$18 | 36% | 49.2 |
| PPL | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Education | High Bay Lighting | ROB | Fixture | 1,235 | 18% | 0.05 | 13 | \$16 | 25% | 8.9 |
| PPL | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | ROB | Fixture | 2,855 | 65% | 0.4 | 13 | \$18 | 36% | 64.7 |
| PPL | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Education | High Bay Lighting | Early | Fixture | 1,235 | 1.5% | 0.00 | 13 | \$582 | 19% | 0.0 |
| PPL | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Education | High Bay Lighting | Early | Fixture | 1,271 | 4.3% | 0.01 | 13 | \$582 | 19% | 0.1 |
| PPL | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | Early | Fixture | 2,855 | 57% | 0.4 | 13 | \$582 | 19% | 1.8 |
| PPL | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Education | High Bay Lighting | New | Fixture | 938 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| PPL | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | New | Fixture | 2,170 | 57% | 0.3 | 13 | \$88 | 19% | 9.1 |
| PPL | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Education | High Bay Lighting | ROB | Fixture | 1,235 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| PPL | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | ROB | Fixture | 2,855 | 57% | 0.4 | 13 | \$88 | 19% | 12.0 |
| PPL | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Education | High Bay Lighting | Early | Fixture | 524 | 29% | 0.02 | 13 | \$517 | 71% | 0.2 |
| PPL | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Education | High Bay Lighting | Early | Fixture | 438 | 15% | 0.01 | 13 | \$517 | 95% | 0.1 |
| PPL | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Education | High Bay Lighting | Early | Fixture | 651 | 43% | 0.04 | 13 | \$517 | 95% | 0.3 |
| PPL | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Education | High Bay Lighting | Early | Fixture | 604 | 38% | 0.04 | 13 | \$517 | 95% | 0.3 |
| PPL | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Education | High Bay Lighting | New | Fixture | 333 | 15% | 0.01 | 13 | \$25 | 95% | 1.2 |
| PPL | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Education | High Bay Lighting | New | Fixture | 495 | 43% | 0.03 | 13 | \$51 | 95% | 2.5 |
| PPL | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Education | High Bay Lighting | ROB | Fixture | 438 | 15% | 0.01 | 13 | \$25 | 95% | 1.6 |
| PPL | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Education | High Bay Lighting | ROB | Fixture | 651 | 43% | 0.04 | 13 | \$51 | 95% | 3.3 |
| PPL | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Education | High Bay Lighting | Early | lamp | 66 | 16% | 0.00 | 15 | \$8.7 | 99% | 0.9 |
| PPL | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Education | High Bay Lighting | New | lamp | 39 | 13% | 0.00 | 15 | \$1.6 | 91% | 2.3 |
| PPL | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Education | High Bay Lighting | ROB | lamp | 64 | 13% | 0.00 | 15 | \$1.6 | 91% | 3.7 |
| PPL | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Education | High Bay Lighting | Early | Fixture | 2,921 | 23% | 0.2 | 13 | \$639 | 5% | 0.7 |
| PPL | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Education | High Bay Lighting | Early | Fixture | 2,295 | 1.6% | 0.01 | 13 | \$639 | 28% | 0.0 |
| PPL | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Education | High Bay Lighting | Early | Fixture | 5,709 | 60% | 0.8 | 13 | \$639 | 18% | 3.5 |
| PPL | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Education | High Bay Lighting | New | Fixture | 2,220 | 23% | 0.1 | 13 | \$96 | 5% | 3.4 |
| PPL | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Education | High Bay Lighting | ROB | Fixture | 2,921 | 23% | 0.2 | 13 | \$96 | 5% | 4.4 |
| PPL | Auto Off Time Switch | Lighting w/ No Controls | Education | High Bay Lighting | Existing | building | 7,900 | 24% | 0.2 | 8 | \$3,237 | 13% | 0.2 |
| PPL | Auto Off Time Switch | Lighting w/ No Controls | Education | High Bay Lighting | New | building | 7,900 | 6.9% | 0.07 | 8 | \$3,237 | 0% | 0.1 |
| PPL | Central Lighting Control System | Lighting w/ No Controls | Education | High Bay Lighting | Existing | building | 7,900 | 38% | 0.4 | 8 | \$3,237 | 13% | 0.4 |
| PPL | Central Lighting Control System | Lighting w/ No Controls | Education | High Bay Lighting | New | building | 7,900 | 14% | 0.1 | 8 | \$3,237 | 13% | 0.1 |
| PPL | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Education | High Bay Lighting | New | building | 7,900 | 10% | 0.1 | 15 | \$35,171 | 32% | 0.0 |
| PPL | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Education | High Bay Lighting | New | building | 7,900 | 15% | 0.2 | 15 | \$87,927 | 32% | 0.0 |
| PPL | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Education | High Bay Lighting | New | building | 7,900 | 30% | 0.3 | 15 | \$126,028 | 32% | 0.0 |
| PPL | Indoor Daylight Sensors | Lighting w/ No Controls | Education | High Bay Lighting | Existing | building | 7,900 | 28% | 0.3 | 8 | \$15,932 | 13% | 0.1 |
| PPL | Indoor Daylight Sensors | Lighting w/ No Controls | Education | High Bay Lighting | New | building | 7,900 | 4.0% | 0.04 | 8 | \$15,932 | 0% | 0.0 |
| PPL | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Education | High Bay Lighting | Early | Fixture | 2,921 | 92% | 0.6 | 13 | \$1,941 | 95% | 0.9 |
| PPL | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | Early | Fixture | 5,709 | 96% | 1.2 | 13 | \$1,941 | 95% | 1.8 |
| PPL | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Education | High Bay Lighting | New | Fixture | 2,220 | 92% | 0.5 | 13 | \$1,468 | 95% | 0.9 |
| PPL | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | New | Fixture | 4,339 | 96% | 0.9 | 13 | \$1,149 | 95% | 2.3 |
| PPL | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Education | High Bay Lighting | ROB | Fixture | 2,921 | 92% | 0.6 | 13 | \$1,468 | 95% | 1.2 |
| PPL | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Education | High Bay Lighting | ROB | Fixture | 5,709 | 96% | 1.2 | 13 | \$1,149 | 95% | 3.1 |
| PPL | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Education | High Bay Lighting | Early | Fixture | 969 | 67% | 0.1 | 13 | \$985 | 95% | 0.4 |
| PPL | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Education | High Bay Lighting | Early | Fixture | 2,855 | 89% | 0.6 | 13 | \$985 | 95% | 1.7 |
| PPL | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Education | High Bay Lighting | Early | Fixture | 783 | 59% | 0.1 | 13 | \$985 | 95% | 0.3 |
| PPL | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Education | High Bay Lighting | New | Fixture | 737 | 67% | 0.1 | 13 | \$480 | 95% | 0.7 |
| PPL | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Education | High Bay Lighting | New | Fixture | 2,170 | 89% | 0.4 | 13 | \$491 | 95% | 2.5 |
| PPL | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Education | High Bay Lighting | New | Fixture | 595 | 59% | 0.08 | 13 | \$406 | 95% | 0.6 |
| PPL | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Education | High Bay Lighting | ROB | Fixture | 969 | 67% | 0.1 | 13 | \$480 | 95% | 0.9 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|--|-----------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Education | High Bay Lighting | ROB | Fixture | 2,855 | 89% | 0.6 | 13 | \$491 | 95% | 3.3 |
| PPL | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Education | High Bay Lighting | ROB | Fixture | 783 | 59% | 0.1 | 13 | \$406 | 95% | 0.7 |
| PPL | Occupancy Sensor | Lighting w/ No Controls | Education | High Bay Lighting | Existing | building | 7,900 | 24% | 0.2 | 8 | \$4,877 | 11% | 0.1 |
| PPL | Occupancy Sensor | Lighting w/ No Controls | Education | High Bay Lighting | New | building | 7,900 | 6.9% | 0.07 | 8 | \$4,877 | 0% | 0.0 |
| PPL | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Education | High Bay Lighting | Existing | building | 7,900 | 28% | 0.3 | 8 | \$15,932 | 11% | 0.1 |
| PPL | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Education | High Bay Lighting | New | building | 7,900 | 4.0% | 0.04 | 8 | \$15,932 | 0% | 0.0 |
| PPL | Time Clock Control | Lighting w/ No Controls | Education | High Bay Lighting | Existing | building | 7,900 | 28% | 0.3 | 8 | \$3,237 | 13% | 0.3 |
| PPL | Time Clock Control | Lighting w/ No Controls | Education | High Bay Lighting | New | building | 7,900 | 4.0% | 0.04 | 8 | \$3,237 | 0% | 0.0 |
| PPL | Auto Off Time Switch | Lighting w/ No Controls | Education | Lin. Fluor. Lighting | Existing | building | 69,698 | 24% | 0.2 | 8 | \$3,237 | 13% | 1.7 |
| PPL | Auto Off Time Switch | Lighting w/ No Controls | Education | Lin. Fluor. Lighting | New | building | 69,698 | 7.0% | 0.07 | 8 | \$3,237 | 0% | 0.5 |
| PPL | Central Lighting Control System | Lighting w/ No Controls | Education | Lin. Fluor. Lighting | Existing | building | 69,698 | 38% | 0.4 | 8 | \$3,237 | 12% | 2.7 |
| PPL | Central Lighting Control System | Lighting w/ No Controls | Education | Lin. Fluor. Lighting | New | building | 69,698 | 14% | 0.1 | 8 | \$3,237 | 12% | 1.0 |
| PPL | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Education | Lin. Fluor. Lighting | New | building | 69,698 | 10% | 0.1 | 15 | \$35,171 | 32% | 0.1 |
| PPL | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Education | Lin. Fluor. Lighting | New | building | 69,698 | 15% | 0.2 | 15 | \$87,927 | 32% | 0.1 |
| PPL | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Education | Lin. Fluor. Lighting | New | building | 69,698 | 30% | 0.3 | 15 | \$126,028 | 32% | 0.1 |
| PPL | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Education | Lin. Fluor. Lighting | Early | Lamp | 133 | 38% | 0.01 | 15 | \$8.3 | 94% | 4.5 |
| PPL | Indoor Daylight Sensors | Lighting w/ No Controls | Education | Lin. Fluor. Lighting | Existing | building | 69,698 | 28% | 0.3 | 8 | \$15,932 | 13% | 0.4 |
| PPL | Indoor Daylight Sensors | Lighting w/ No Controls | Education | Lin. Fluor. Lighting | New | building | 69,698 | 4.1% | 0.04 | 8 | \$15,932 | 0% | 0.1 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Education | Lin. Fluor. Lighting | Early | Lamp | 63 | 19% | 0.00 | 15 | \$36 | 94% | 0.2 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 40W T12 Lamp, Magnetic Ballast | Education | Lin. Fluor. Lighting | Early | Lamp | 137 | 63% | 0.02 | 15 | \$36 | 94% | 1.7 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Education | Lin. Fluor. Lighting | Early | Lamp | 77 | 34% | 0.01 | 15 | \$36 | 94% | 0.5 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Education | Lin. Fluor. Lighting | Early | Lamp | 75 | 32% | 0.00 | 15 | \$36 | 94% | 0.5 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Education | Lin. Fluor. Lighting | New | Lamp | 48 | 19% | 0.00 | 15 | \$28 | 94% | 0.2 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Education | Lin. Fluor. Lighting | New | Lamp | 57 | 32% | 0.00 | 15 | \$29 | 94% | 0.5 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Education | Lin. Fluor. Lighting | New | Lamp | 59 | 34% | 0.00 | 15 | \$22 | 94% | 0.7 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Education | Lin. Fluor. Lighting | New | Lamp | 57 | 32% | 0.00 | 15 | \$29 | 94% | 0.5 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Education | Lin. Fluor. Lighting | ROB | Lamp | 63 | 19% | 0.00 | 15 | \$28 | 94% | 0.3 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Education | Lin. Fluor. Lighting | ROB | Lamp | 75 | 32% | 0.00 | 15 | \$29 | 94% | 0.6 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Education | Lin. Fluor. Lighting | ROB | Lamp | 77 | 34% | 0.01 | 15 | \$22 | 94% | 0.9 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Education | Lin. Fluor. Lighting | ROB | Lamp | 75 | 32% | 0.00 | 15 | \$29 | 94% | 0.6 |
| PPL | Occupancy Sensor | Lighting w/ No Controls | Education | Lin. Fluor. Lighting | Existing | building | 69,698 | 24% | 0.2 | 8 | \$4,877 | 12% | 1.1 |
| PPL | Occupancy Sensor | Lighting w/ No Controls | Education | Lin. Fluor. Lighting | New | building | 69,698 | 7.0% | 0.07 | 8 | \$4,877 | 0% | 0.3 |
| PPL | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Education | Lin. Fluor. Lighting | Existing | building | 69,698 | 28% | 0.3 | 8 | \$15,932 | 11% | 0.4 |
| PPL | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Education | Lin. Fluor. Lighting | New | building | 69,698 | 4.1% | 0.04 | 8 | \$15,932 | 0% | 0.1 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 40W T12 w/ Magnetic Ballast | Education | Lin. Fluor. Lighting | Early | Lamp | 133 | 54% | 0.02 | 15 | \$9.1 | 94% | 5.8 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Education | Lin. Fluor. Lighting | Early | Lamp | 85 | 28% | 0.01 | 15 | \$9.1 | 24% | 1.9 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Education | Lin. Fluor. Lighting | Early | Lamp | 83 | 26% | 0.00 | 15 | \$9.1 | 94% | 1.7 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Education | Lin. Fluor. Lighting | New | Lamp | 63 | 26% | 0.00 | 15 | \$2.5 | 94% | 4.7 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Education | Lin. Fluor. Lighting | New | Lamp | 63 | 26% | 0.00 | 15 | \$2.5 | 94% | 4.7 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Education | Lin. Fluor. Lighting | New | Lamp | 65 | 28% | 0.00 | 15 | \$2.5 | 24% | 5.3 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Education | Lin. Fluor. Lighting | New | Lamp | 63 | 26% | 0.00 | 15 | \$2.5 | 94% | 4.7 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Education | Lin. Fluor. Lighting | ROB | Lamp | 83 | 26% | 0.00 | 15 | \$2.5 | 94% | 6.2 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Education | Lin. Fluor. Lighting | ROB | Lamp | 83 | 26% | 0.00 | 15 | \$2.5 | 94% | 6.2 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Education | Lin. Fluor. Lighting | ROB | Lamp | 85 | 28% | 0.01 | 15 | \$2.5 | 24% | 6.9 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Education | Lin. Fluor. Lighting | ROB | Lamp | 83 | 26% | 0.00 | 15 | \$2.5 | 94% | 6.2 |
| PPL | T8 Lamp (any length) Electronic Ballast | Standard T12 lamp (any length) | Education | Lin. Fluor. Lighting | Early | Lamp | 157 | 42% | 0.01 | 15 | \$15 | 94% | 3.2 |
| PPL | Time Clock Control | Lighting w/ No Controls | Education | Lin. Fluor. Lighting | Existing | building | 69,698 | 28% | 0.3 | 8 | \$3,237 | 14% | 2.0 |
| PPL | Time Clock Control | Lighting w/ No Controls | Education | Lin. Fluor. Lighting | New | building | 69,698 | 4.1% | 0.04 | 8 | \$3,237 | 0% | 0.3 |
| PPL | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Education | Motors | Early | motor | 2,840 | 3.6% | 0.01 | 15 | \$374 | 76% | 0.2 |
| PPL | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Education | Motors | Early | motor | 2,840 | 3.6% | 0.01 | 15 | \$374 | 76% | 0.2 |
| PPL | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Education | Motors | Early | motor | 2,840 | 3.6% | 0.01 | 15 | \$374 | 76% | 0.2 |
| PPL | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Education | Motors | Early | motor | 2,840 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| PPL | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Education | Motors | Early | motor | 2,840 | 3.7% | 0.01 | 15 | \$374 | 76% | 0.2 |
| PPL | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Education | Motors | New | motor | 2,754 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| PPL | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Education | Motors | New | motor | 2,754 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| PPL | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Education | Motors | New | motor | 2,754 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| PPL | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Education | Motors | New | motor | 2,754 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| PPL | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Education | Motors | New | motor | 2,754 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| PPL | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Education | Motors | ROB | motor | 2,754 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| PPL | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Education | Motors | ROB | motor | 2,754 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| PPL | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Education | Motors | ROB | motor | 2,754 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| PPL | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Education | Motors | ROB | motor | 2,754 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| PPL | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Education | Motors | ROB | motor | 2,754 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|--|-----------|---------|---------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Education | Motors | New | motor | 148,701 | 0.5% | 0.1 | 15 | \$431 | 70% | 1.2 |
| PPL | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Education | Motors | New | motor | 148,701 | 0.5% | 0.1 | 15 | \$431 | 70% | 1.2 |
| PPL | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Education | Motors | New | motor | 148,701 | 0.5% | 0.1 | 15 | \$431 | 70% | 1.2 |
| PPL | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Education | Motors | New | motor | 148,701 | 0.5% | 0.1 | 15 | \$431 | 70% | 1.2 |
| PPL | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Education | Motors | ROB | motor | 148,701 | 0.5% | 0.1 | 15 | \$431 | 70% | 1.2 |
| PPL | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Education | Motors | ROB | motor | 148,701 | 0.5% | 0.1 | 15 | \$431 | 70% | 1.2 |
| PPL | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Education | Motors | ROB | motor | 148,701 | 0.5% | 0.1 | 15 | \$431 | 70% | 1.2 |
| PPL | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Education | Motors | ROB | motor | 148,701 | 0.5% | 0.1 | 15 | \$431 | 70% | 1.2 |
| PPL | 60 HP Motor, Ultra-PE | 60 HP motor w/ baseline efficiency (4 pole) | Education | Motors | ROB | motor | 148,701 | 0.5% | 0.1 | 15 | \$431 | 70% | 1.2 |
| PPL | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Education | Motors | Early | motor | 19,880 | 2.9% | 0.08 | 15 | \$802 | 83% | 0.5 |
| PPL | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Education | Motors | Early | motor | 19,880 | 2.9% | 0.08 | 15 | \$802 | 83% | 0.5 |
| PPL | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Education | Motors | Early | motor | 19,880 | 2.9% | 0.08 | 15 | \$802 | 83% | 0.5 |
| PPL | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Education | Motors | Early | motor | 19,880 | 2.9% | 0.09 | 15 | \$802 | 83% | 0.5 |
| PPL | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Education | Motors | Early | motor | 19,880 | 2.9% | 0.08 | 15 | \$802 | 83% | 0.5 |
| PPL | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Education | Motors | New | motor | 19,405 | 0.5% | 0.01 | 15 | \$123 | 83% | 0.5 |
| PPL | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Education | Motors | New | motor | 19,405 | 0.5% | 0.01 | 15 | \$123 | 83% | 0.6 |
| PPL | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Education | Motors | New | motor | 19,405 | 0.6% | 0.01 | 15 | \$123 | 83% | 0.6 |
| PPL | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Education | Motors | New | motor | 19,405 | 0.6% | 0.02 | 15 | \$123 | 83% | 0.6 |
| PPL | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Education | Motors | ROB | motor | 19,405 | 0.6% | 0.01 | 15 | \$123 | 83% | 0.6 |
| PPL | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Education | Motors | ROB | motor | 19,405 | 0.5% | 0.01 | 15 | \$123 | 83% | 0.5 |
| PPL | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Education | Motors | ROB | motor | 19,405 | 0.5% | 0.01 | 15 | \$123 | 83% | 0.5 |
| PPL | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Education | Motors | ROB | motor | 19,405 | 0.6% | 0.01 | 15 | \$123 | 83% | 0.6 |
| PPL | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Education | Motors | ROB | motor | 19,405 | 0.6% | 0.02 | 15 | \$123 | 83% | 0.6 |
| PPL | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Education | Motors | ROB | motor | 19,405 | 0.6% | 0.01 | 15 | \$123 | 83% | 0.6 |
| PPL | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Education | Motors | ROB | motor | 19,405 | 0.6% | 0.01 | 15 | \$123 | 83% | 0.6 |
| PPL | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Education | Motors | ROB | motor | 19,405 | 0.6% | 0.01 | 15 | \$123 | 83% | 0.6 |
| PPL | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Education | Motors | ROB | motor | 19,405 | 0.6% | 0.01 | 15 | \$123 | 83% | 0.6 |
| PPL | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Education | Motors | ROB | motor | 19,405 | 0.6% | 0.01 | 15 | \$123 | 83% | 0.6 |
| PPL | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Education | Motors | Early | motor | 187,421 | 1.4% | 0.3 | 15 | \$3,955 | 61% | 0.4 |
| PPL | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Education | Motors | Early | motor | 187,421 | 1.4% | 0.3 | 15 | \$3,955 | 61% | 0.4 |
| PPL | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Education | Motors | Early | motor | 187,421 | 1.4% | 0.3 | 15 | \$3,955 | 61% | 0.4 |
| PPL | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Education | Motors | Early | motor | 187,421 | 1.4% | 0.3 | 15 | \$3,955 | 61% | 0.4 |
| PPL | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Education | Motors | New | motor | 185,876 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.1 |
| PPL | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Education | Motors | New | motor | 185,876 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.1 |
| PPL | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Education | Motors | New | motor | 185,876 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.1 |
| PPL | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Education | Motors | New | motor | 185,876 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.2 |
| PPL | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Education | Motors | New | motor | 185,876 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.2 |
| PPL | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Education | Motors | ROB | motor | 185,876 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.1 |
| PPL | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Education | Motors | ROB | motor | 185,876 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.1 |
| PPL | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Education | Motors | ROB | motor | 185,876 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.1 |
| PPL | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Education | Motors | ROB | motor | 185,876 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.2 |
| PPL | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Education | Motors | ROB | motor | 185,876 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.2 |
| PPL | ASD HVAC Fan | Std. HVAC Fan | Education | Motors | New | measure | 60,857 | 6.0% | 0.4 | 15 | \$3,455 | 85% | 0.7 |
| PPL | ASD HVAC Fan | Std. HVAC Fan | Education | Motors | ROB | measure | 60,857 | 6.0% | 0.4 | 15 | \$3,455 | 85% | 0.7 |
| PPL | demand controlled ventilation | Absence of Demand Controlled Ventilation | Education | Motors | Early | measure | 60,857 | 14% | 1.0 | 10 | \$8,057 | 92% | 0.5 |
| PPL | demand controlled ventilation | Office building thermostat | Education | Motors | New | measure | 60,857 | 14% | 1.0 | 10 | \$6,286 | 92% | 0.6 |
| PPL | demand controlled ventilation | Office building thermostat | Education | Motors | ROB | measure | 60,857 | 14% | 1.0 | 10 | \$6,286 | 92% | 0.6 |
| PPL | Downsizing motor during retrofit | Larger hp standard motor | Education | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 21.4 |
| PPL | Downsizing motor during retrofit | Larger hp standard motor | Education | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 21.6 |
| PPL | Downsizing motor during retrofit | Larger hp standard motor | Education | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 22.3 |
| PPL | Downsizing motor during retrofit | Larger hp standard motor | Education | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 23.6 |
| PPL | Downsizing motor during retrofit | Larger hp standard motor | Education | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 23.0 |
| PPL | Downsizing motor during retrofit | Larger hp standard motor | Education | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 21.3 |
| PPL | Downsizing motor during retrofit | Larger hp standard motor | Education | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 21.8 |
| PPL | Downsizing motor during retrofit | Larger hp standard motor | Education | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 22.4 |
| PPL | Downsizing motor during retrofit | Larger hp standard motor | Education | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 23.6 |
| PPL | Downsizing motor during retrofit | Larger hp standard motor | Education | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 23.0 |
| PPL | Energy Efficient Laboratory Fume Hood | Std. Fume Hood | Education | Motors | New | measure | 62,400 | 0.4% | 0.00 | 15 | \$62 | 60% | 2.4 |
| PPL | Energy Efficient Laboratory Fume Hood | Std. Fume Hood | Education | Motors | ROB | measure | 62,400 | 0.4% | 0.00 | 15 | \$62 | 60% | 2.3 |
| PPL | Escalator Motor Controller | Constant power control | Education | Motors | New | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 22% | 6.0 |
| PPL | Escalator Motor Controller | Constant power control | Education | Motors | ROB | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 22% | 6.0 |
| PPL | Fan Motor - correct sizing | Incorrect Fan Motor Sizing | Education | Motors | ROB | measure | 60,857 | 1.6% | 0.1 | 15 | \$50 | 92% | 13.2 |
| PPL | Variable Speed Drive Control, 15HP | Existing Motors w/out VFD Drive | Education | Motors | Early | motor | 13,454 | 72% | 1.4 | 15 | \$791 | 86% | 8.2 |
| PPL | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VFD Drive | Education | Motors | New | motor | 13,153 | 72% | 1.4 | 15 | \$731 | 86% | 8.7 |
| PPL | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VFD Drive | Education | Motors | ROB | motor | 13,153 | 72% | 1.4 | 15 | \$731 | 86% | 8.7 |
| PPL | Variable Speed Drive Control, 40HP | Existing Motors w/out VSD Drive | Education | Motors | Early | motor | 101,266 | 71% | 10.5 | 15 | \$4,726 | 86% | 10.2 |
| PPL | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Education | Motors | New | motor | 100,082 | 72% | 10.5 | 15 | \$4,666 | 86% | 10.3 |
| PPL | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Education | Motors | ROB | motor | 100,082 | 72% | 10.5 | 15 | \$4,666 | 86% | 10.3 |
| PPL | Variable Speed Drive Control, 5HP | Existing Motors w/out VSD Drive | Education | Motors | Early | motor | 38,809 | 70% | 4.0 | 15 | \$2,303 | 86% | 7.9 |
| PPL | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VSD Drive | Education | Motors | New | motor | 37,975 | 72% | 4.0 | 15 | \$2,243 | 86% | 8.2 |
| PPL | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VSD Drive | Education | Motors | ROB | motor | 37,975 | 72% | 4.0 | 15 | \$2,243 | 86% | 8.2 |
| PPL | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Education | Motors | Early | motor | 68,319 | 1.6% | 0.1 | 15 | \$328 | 40% | 2.2 |
| PPL | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Education | Motors | New | motor | 68,319 | 1.6% | 0.1 | 15 | \$268 | 40% | 2.7 |
| PPL | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Education | Motors | ROB | motor | 68,319 | 1.6% | 0.1 | 15 | \$268 | 40% | 2.7 |
| PPL | VFD on Chilled Water Pump | Motor w/out VFD Drive | Education | Motors | Early | motor | 32,904 | 54% | 2.7 | 15 | \$2,903 | 86% | 4.0 |
| PPL | VFD on Chilled Water Pump | Motor w/out VFD Drive | Education | Motors | New | motor | 32,289 | 55% | 2.7 | 15 | \$2,843 | 86% | 4.1 |
| PPL | VFD on Chilled Water Pump | Motor w/out VFD Drive | Education | Motors | ROB | motor | 32,289 | 55% | 2.7 | 15 | \$2,843 | 86% | 4.1 |
| PPL | VFD on Condenser Water Pump | Motor w/out VFD Drive | Education | Motors | Early | motor | 29,128 | 32% | 3.2 | 15 | \$2,903 | 86% | 2.5 |
| PPL | VFD on Condenser Water Pump | Motor w/out VFD Drive | Education | Motors | New | motor | 28,583 | 33% | 3.1 | 15 | \$2,843 | 86% | 2.6 |
| PPL | VFD on Condenser Water Pump | Motor w/out VFD Drive | Education | Motors | ROB | motor | 28,583 | 33% | 3.1 | 15 | \$2,843 | 86% | 2.6 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|--|-----------|---------------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Education | Motors | Early | motor | 39,075 | 56% | 0.00 | 15 | \$2,903 | 86% | 4.1 |
| PPL | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Education | Motors | New | motor | 38,344 | 57% | 0.00 | 15 | \$2,843 | 86% | 4.2 |
| PPL | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Education | Motors | ROB | motor | 38,344 | 57% | 0.00 | 15 | \$2,843 | 86% | 4.2 |
| PPL | VFD on HVAC Fan | Motor w/out VFD | Education | Motors | Early | motor | 32,962 | 70% | 3.4 | 15 | \$2,903 | 86% | 5.4 |
| PPL | VFD on HVAC Fan | Motor w/out VFD | Education | Motors | New | motor | 32,346 | 72% | 3.3 | 15 | \$2,843 | 86% | 5.5 |
| PPL | VFD on HVAC Fan | Motor w/out VFD | Education | Motors | ROB | motor | 32,346 | 72% | 3.3 | 15 | \$2,843 | 86% | 5.5 |
| PPL | Elevators | Std. Eff Elevator | Education | Other | ROB | measure | 89,016 | 1.8% | 0.1 | 15 | \$379 | 81% | 2.5 |
| PPL | Variable Speed Drives on Process Equipment | Constant speed control | Education | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 0.0 |
| PPL | Variable Speed Drives on Process Equipment | Constant speed control | Education | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 10.4 |
| PPL | Auto Off Time Switch | Lighting w/ No Controls | Education | Other Int. Lighting | Existing | building | 22,927 | 24% | 0.2 | 8 | \$3,237 | 13% | 0.6 |
| PPL | Auto Off Time Switch | Lighting w/ No Controls | Education | Other Int. Lighting | New | building | 22,927 | 7.0% | 0.07 | 8 | \$3,237 | 0% | 0.2 |
| PPL | Central Lighting Control System | Lighting w/ No Controls | Education | Other Int. Lighting | Existing | building | 22,927 | 38% | 0.4 | 8 | \$3,237 | 13% | 0.9 |
| PPL | Central Lighting Control System | Lighting w/ No Controls | Education | Other Int. Lighting | New | building | 22,927 | 14% | 0.1 | 8 | \$3,237 | 13% | 0.3 |
| PPL | Cold Cathode Screw-In Bulb | 40W Incandescent Bulb | Education | Other Int. Lighting | Early | lamp | 145 | 87% | 0.03 | 11 | \$33 | 14% | 2.1 |
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Education | Other Int. Lighting | Early | lamp | 104 | 81% | 0.02 | 11 | \$33 | 11% | 1.4 |
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Education | Other Int. Lighting | New | lamp | 79 | 81% | 0.01 | 11 | \$24 | 14% | 1.5 |
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Education | Other Int. Lighting | New | lamp | 79 | 81% | 0.01 | 11 | \$25 | 14% | 1.4 |
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Education | Other Int. Lighting | New | lamp | 79 | 81% | 0.01 | 11 | \$24 | 11% | 1.4 |
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Education | Other Int. Lighting | ROB | lamp | 104 | 81% | 0.02 | 11 | \$24 | 14% | 1.9 |
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Education | Other Int. Lighting | ROB | lamp | 104 | 81% | 0.02 | 11 | \$25 | 14% | 1.8 |
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Education | Other Int. Lighting | ROB | lamp | 104 | 81% | 0.02 | 11 | \$24 | 11% | 1.9 |
| PPL | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Education | Other Int. Lighting | Early | lamp | 145 | 75% | 0.02 | 4 | \$73 | 39% | 0.3 |
| PPL | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Education | Other Int. Lighting | New | lamp | 157 | 65% | 0.02 | 13 | \$29 | 46% | 2.3 |
| PPL | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Education | Other Int. Lighting | New | lamp | 79 | 65% | 0.01 | 4 | \$29 | 46% | 0.4 |
| PPL | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Education | Other Int. Lighting | ROB | lamp | 207 | 65% | 0.03 | 13 | \$29 | 39% | 3.0 |
| PPL | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Education | Other Int. Lighting | ROB | lamp | 104 | 65% | 0.01 | 4 | \$29 | 39% | 0.5 |
| PPL | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Education | Other Int. Lighting | Early | lamp | 145 | 75% | 0.02 | 4 | \$3.6 | 24% | 6.8 |
| PPL | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Education | Other Int. Lighting | New | lamp | 79 | 65% | 0.01 | 4 | \$1.8 | 24% | 6.6 |
| PPL | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Education | Other Int. Lighting | ROB | lamp | 104 | 65% | 0.01 | 4 | \$1.8 | 24% | 8.6 |
| PPL | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Education | Other Int. Lighting | ROB | lamp | 104 | 65% | 0.01 | 4 | \$1.8 | 24% | 8.6 |
| PPL | Exit Sign Retrofit: CFL replacing Incandescent | One 23W Single Sided Incandescent Exit Sign | Education | Other Int. Lighting | Early | exit sign | 139 | 42% | 0.01 | 15 | \$78 | 22% | 0.5 |
| PPL | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Education | Other Int. Lighting | New | building | 22,927 | 10% | 0.1 | 15 | \$35,171 | 32% | 0.0 |
| PPL | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Education | Other Int. Lighting | New | building | 22,927 | 15% | 0.2 | 15 | \$87,927 | 32% | 0.0 |
| PPL | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Education | Other Int. Lighting | New | building | 22,927 | 30% | 0.3 | 15 | \$126,028 | 32% | 0.0 |
| PPL | Indoor Daylight Sensors | Lighting w/ No Controls | Education | Other Int. Lighting | Existing | building | 22,927 | 28% | 0.3 | 8 | \$15,932 | 13% | 0.1 |
| PPL | Indoor Daylight Sensors | Lighting w/ No Controls | Education | Other Int. Lighting | New | building | 22,927 | 4.1% | 0.04 | 8 | \$15,932 | 0% | 0.0 |
| PPL | LED Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Education | Other Int. Lighting | Early | sign | 153 | 87% | 0.02 | 15 | \$78 | 16% | 1.1 |
| PPL | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Education | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 2.0 |
| PPL | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Education | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 2.0 |
| PPL | LED Task Lighting/Screw-In | 1 15W CFL bulb | Education | Other Int. Lighting | Early | lamp | 45 | 33% | 0.00 | 8 | \$9.6 | 24% | 0.4 |
| PPL | LED Task Lighting/Screw-In | 1 60W Incandescent Bulb | Education | Other Int. Lighting | Early | lamp | 179 | 83% | 0.02 | 8 | \$9.6 | 24% | 4.3 |
| PPL | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Education | Other Int. Lighting | New | lamp | 98 | 77% | 0.01 | 8 | \$7.9 | 24% | 2.6 |
| PPL | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Education | Other Int. Lighting | New | lamp | 98 | 77% | 0.01 | 8 | \$7.9 | 24% | 2.6 |
| PPL | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Education | Other Int. Lighting | ROB | lamp | 129 | 77% | 0.01 | 8 | \$7.9 | 24% | 3.5 |
| PPL | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Education | Other Int. Lighting | ROB | lamp | 129 | 77% | 0.01 | 8 | \$7.9 | 24% | 3.5 |
| PPL | Occupancy Sensor | Lighting w/ No Controls | Education | Other Int. Lighting | Existing | building | 22,927 | 24% | 0.2 | 8 | \$4,877 | 11% | 0.4 |
| PPL | Occupancy Sensor | Lighting w/ No Controls | Education | Other Int. Lighting | New | building | 22,927 | 7.0% | 0.07 | 8 | \$4,877 | 0% | 0.1 |
| PPL | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Education | Other Int. Lighting | Existing | building | 22,927 | 28% | 0.3 | 8 | \$15,932 | 11% | 0.1 |
| PPL | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Education | Other Int. Lighting | New | building | 22,927 | 4.1% | 0.04 | 8 | \$15,932 | 0% | 0.0 |
| PPL | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Education | Other Int. Lighting | Early | exit sign | 139 | 100% | 0.02 | 15 | \$203 | 26% | 0.4 |
| PPL | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Education | Other Int. Lighting | New | exit sign | 80 | 100% | 0.01 | 15 | \$148 | 31% | 0.4 |
| PPL | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Education | Other Int. Lighting | ROB | exit sign | 80 | 100% | 0.01 | 15 | \$148 | 26% | 0.4 |
| PPL | Time Clock Control | Lighting w/ No Controls | Education | Other Int. Lighting | Existing | building | 22,927 | 28% | 0.3 | 8 | \$3,237 | 13% | 0.7 |
| PPL | Time Clock Control | Lighting w/ No Controls | Education | Other Int. Lighting | New | building | 22,927 | 4.1% | 0.04 | 8 | \$3,237 | 0% | 0.1 |
| PPL | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Education | Plug Load | Existing | building | 2,912 | 46% | 0.5 | 5 | \$189 | 4% | 2.2 |
| PPL | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Education | Plug Load | New | building | 1,422 | 46% | 0.5 | 5 | \$189 | 4% | 1.5 |
| PPL | Data Center - Server/Storage Consolidation | No Consolidation | Education | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PPL | Data Center - Server/Storage Consolidation | No Consolidation | Education | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PPL | Data Center - Server/Storage Virtualization | No Virtualization | Education | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PPL | Data Center - Server/Storage Virtualization | No Virtualization | Education | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PPL | Energy Star - Scanners | Std Scanner | Education | Plug Load | New | measure | 68 | 3.9% | 0.04 | 4 | \$777 | 7% | 0.0 |
| PPL | Energy Star - Scanners | Std Scanner | Education | Plug Load | ROB | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| PPL | Energy Star Dishwasher | Existing Dishwasher units | Education | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,580 | 6% | 1.0 |
| PPL | Energy Star Dishwasher | Standard Dishwasher unit | Education | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 6% | 3.3 |
| PPL | Energy Star Dishwasher | Standard Dishwasher unit | Education | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 6% | 3.3 |
| PPL | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Education | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 17% | 0.1 |
| PPL | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Education | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 1.6 |
| PPL | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Education | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 1.6 |
| PPL | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Education | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 9% | 0.8 |
| PPL | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Education | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.6 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|---|-----------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Education | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.6 |
| PPL | ENERGY STAR® Copiers | 10% Less Efficient Copier | Education | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 18% | 0.0 |
| PPL | ENERGY STAR® Copiers | One Conventional Copier | Education | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| PPL | ENERGY STAR® Copiers | One Conventional Copier | Education | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| PPL | ENERGY STAR® desktop | Standard computer | Education | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 69% | 0.1 |
| PPL | ENERGY STAR® desktop | Standard computer | Education | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.2 |
| PPL | ENERGY STAR® desktop | Standard computer | Education | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.2 |
| PPL | ENERGY STAR® Fax | 10% Less Efficient Fax | Education | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 15% | 0.0 |
| PPL | ENERGY STAR® Fax | One Conventional Fax | Education | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| PPL | ENERGY STAR® Fax | One Conventional Fax | Education | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| PPL | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Education | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 70% | 0.0 |
| PPL | ENERGY STAR® Monitors | One Conventional Monitor | Education | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| PPL | ENERGY STAR® Monitors | One Conventional Monitor | Education | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| PPL | ENERGY STAR® Printers | 10% Less Efficient Printer | Education | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 44% | 0.0 |
| PPL | ENERGY STAR® Printers | One Conventional Printer | Education | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| PPL | ENERGY STAR® Printers | One Conventional Printer | Education | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$1,426 | 44% | 0.0 |
| PPL | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Education | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 43% | 0.1 |
| PPL | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Education | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.7 |
| PPL | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Education | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.7 |
| PPL | ENERGY STAR® Televisions | 10% Less Efficient Television | Education | Plug Load | Early | Unit | 185 | 38% | 0.01 | 6 | \$672 | 40% | 0.0 |
| PPL | ENERGY STAR® Televisions | One Conventional Television | Education | Plug Load | New | Unit | 168 | 32% | 0.01 | 6 | \$206 | 40% | 0.1 |
| PPL | ENERGY STAR® Televisions | One Conventional Television | Education | Plug Load | ROB | Unit | 168 | 32% | 0.01 | 6 | \$206 | 40% | 0.1 |
| PPL | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Education | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 24% | 0.3 |
| PPL | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Education | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.6 |
| PPL | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Education | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.6 |
| PPL | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Education | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.2 |
| PPL | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Education | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.2 |
| PPL | Network PC Power Management | No PC Power Management | Education | Plug Load | Existing | computer | 425 | 33% | 0.01 | 5 | \$30 | 38% | 1.0 |
| PPL | Network PC Power Management | No PC Power Management | Education | Plug Load | New | computer | 425 | 33% | 0.01 | 5 | \$30 | 38% | 1.0 |
| PPL | Smart Strip Plug Outlets | Standard plug strip/outlet | Education | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.4 |
| PPL | Smart Strip Plug Outlets | Standard plug strip/outlet | Education | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.4 |
| PPL | Smart Strip Plug Outlets | Standard plug strip/outlet | Education | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PPL | Smart Strip Plug Outlets | Standard plug strip/outlet | Education | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PPL | Smart Strip Plug Outlets | Standard plug strip/outlet | Education | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PPL | Smart Strip Plug Outlets | Standard plug strip/outlet | Education | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PPL | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Education | Plug Load | Existing | building | 2,913 | 46% | 0.5 | 5 | \$180 | 3% | 2.3 |
| PPL | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Education | Plug Load | New | building | 1,422 | 46% | 0.5 | 5 | \$180 | 3% | 1.5 |
| PPL | Air curtain technology | Strip plastic curtain | Education | Refrigeration | New | building | 21,491 | 6.8% | 0.07 | 8 | \$2,596 | 35% | 0.2 |
| PPL | Air curtain technology | Strip plastic curtain | Education | Refrigeration | New | building | 12,109 | 6.8% | 0.07 | 8 | \$2,596 | 35% | 0.1 |
| PPL | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Education | Refrigeration | Existing | building | 4,485 | 0.7% | 0.01 | 12 | \$70 | 11% | 0.3 |
| PPL | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Education | Refrigeration | New | building | 4,485 | 0.7% | 0.01 | 12 | \$70 | 11% | 0.3 |
| PPL | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Education | Refrigeration | Existing | building | 4,485 | 7.0% | 0.07 | 12 | \$70 | 11% | 2.6 |
| PPL | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Education | Refrigeration | New | building | 4,485 | 7.0% | 0.07 | 12 | \$70 | 11% | 2.6 |
| PPL | Auto Closer on Refrigerator Door | Door w/out Autocloser | Education | Refrigeration | Existing | building | 12,109 | 6.4% | 0.06 | 8 | \$698 | 40% | 0.4 |
| PPL | Auto Closer on Refrigerator Door | Door w/out Autocloser | Education | Refrigeration | Existing | building | 21,491 | 2.9% | 0.03 | 8 | \$559 | 40% | 0.4 |
| PPL | Auto Closer on Refrigerator Door | Door w/out Autocloser | Education | Refrigeration | New | building | 12,109 | 6.4% | 0.06 | 8 | \$698 | 40% | 0.4 |
| PPL | Auto Closer on Refrigerator Door | Door w/out Autocloser | Education | Refrigeration | New | building | 21,491 | 2.9% | 0.03 | 8 | \$559 | 40% | 0.4 |
| PPL | Demand Hot Gas Defrost | Base Refrigeration System | Education | Refrigeration | Existing | measure | 4,485 | 3.0% | 0.03 | 10 | \$1,314 | 0% | 0.0 |
| PPL | Demand Hot Gas Defrost | Base Refrigeration System | Education | Refrigeration | New | measure | 4,485 | 3.0% | 0.03 | 10 | \$1,314 | 0% | 0.1 |
| PPL | Door Gasket- Freezer | Door w/out Gasket | Education | Refrigeration | Existing | building | 12,109 | 3.5% | 0.04 | 4 | \$72 | 29% | 1.1 |
| PPL | Door Gasket- Freezer | Door w/out Gasket | Education | Refrigeration | New | building | 12,109 | 3.7% | 0.04 | 4 | \$72 | 29% | 1.2 |
| PPL | Door Gasket- Refrigerator | Door w/out Gasket | Education | Refrigeration | Existing | building | 21,491 | 0.9% | 0.01 | 4 | \$77 | 45% | 0.4 |
| PPL | Door Gasket- Refrigerator | Door w/out Gasket | Education | Refrigeration | New | building | 21,491 | 0.9% | 0.01 | 4 | \$77 | 45% | 0.4 |
| PPL | Economizer for Walk-in Coolers | No Economizer | Education | Refrigeration | Early | measure | 39,466 | 6.6% | 0.4 | 10 | \$459 | 72% | 2.5 |
| PPL | Economizer for Walk-in Coolers | No Economizer | Education | Refrigeration | Early | measure | 39,466 | 6.6% | 0.4 | 10 | \$459 | 72% | 2.5 |
| PPL | Economizer for Walk-in Coolers | No Economizer | Education | Refrigeration | Early | measure | 39,466 | 6.6% | 0.4 | 10 | \$459 | 72% | 2.5 |
| PPL | Economizer for Walk-in Coolers | No Economizer | Education | Refrigeration | New | measure | 39,466 | 6.6% | 0.4 | 10 | \$54 | 72% | 21.3 |
| PPL | Economizer for Walk-in Coolers | No Economizer | Education | Refrigeration | New | measure | 39,466 | 6.6% | 0.4 | 10 | \$54 | 72% | 21.3 |
| PPL | Economizer for Walk-in Coolers | No Economizer | Education | Refrigeration | New | measure | 39,466 | 6.6% | 0.4 | 10 | \$54 | 72% | 21.3 |
| PPL | Economizer for Walk-in Coolers | No Economizer | Education | Refrigeration | ROB | measure | 39,466 | 6.6% | 0.4 | 10 | \$54 | 72% | 21.3 |
| PPL | Economizer for Walk-in Coolers | No Economizer | Education | Refrigeration | ROB | measure | 39,466 | 6.6% | 0.4 | 10 | \$54 | 72% | 21.3 |
| PPL | Economizer for Walk-in Coolers | No Economizer | Education | Refrigeration | ROB | measure | 39,466 | 6.6% | 0.4 | 10 | \$54 | 72% | 21.4 |
| PPL | eCube | Refrigeration unit w/out eCube | Education | Refrigeration | Existing | building | 21,491 | 15% | 0.2 | 15 | \$1,164 | 57% | 1.6 |
| PPL | eCube | Refrigeration unit w/out eCube | Education | Refrigeration | New | building | 21,491 | 15% | 0.2 | 15 | \$1,164 | 57% | 1.6 |
| PPL | Efficient compressor motor | Base Refrigeration System - Grocery | Education | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| PPL | Efficient compressor motor | Base Refrigeration System - Grocery | Education | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| PPL | Efficient compressor motor | Base Refrigeration System - Grocery | Education | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| PPL | Efficient compressor motor | Base Refrigeration System - Grocery | Education | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| PPL | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Education | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.6 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|---|-----------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Education | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| PPL | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Education | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| PPL | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Education | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.3 |
| PPL | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Education | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.7 |
| PPL | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Education | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.7 |
| PPL | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Education | Refrigeration | Existing | building | 21,491 | 1.3% | 0.01 | 10 | \$369 | 77% | 0.3 |
| PPL | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Education | Refrigeration | New | building | 21,491 | 1.3% | 0.01 | 10 | \$369 | 77% | 0.3 |
| PPL | Floating head pressure controller | System w/out FHPC | Education | Refrigeration | Existing | building | 12,109 | 0.6% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| PPL | Floating head pressure controller | System w/out FHPC | Education | Refrigeration | Existing | building | 4,485 | 0.3% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| PPL | Floating head pressure controller | System w/out FHPC | Education | Refrigeration | Existing | building | 21,491 | 0.3% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| PPL | Floating head pressure controller | System w/out FHPC | Education | Refrigeration | New | building | 12,109 | 0.6% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| PPL | Floating head pressure controller | System w/out FHPC | Education | Refrigeration | New | building | 4,485 | 0.3% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| PPL | Floating head pressure controller | System w/out FHPC | Education | Refrigeration | New | building | 21,491 | 0.3% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| PPL | High Efficiency Commercial Freezer | Std. Commercial Freezer | Education | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 86% | 0.3 |
| PPL | High Efficiency Commercial Freezer | Std. Commercial Freezer | Education | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 3.9 |
| PPL | High Efficiency Commercial Freezer | Std. Commercial Freezer | Education | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 3.9 |
| PPL | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Education | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 21% | 0.1 |
| PPL | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Education | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 21% | 0.9 |
| PPL | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Education | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 21% | 0.9 |
| PPL | High Efficiency Ice Maker | Exisiting Standard Efficiency Ice Maker in Pennsylvania | Education | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 73% | 0.2 |
| PPL | High Efficiency Ice Maker | Standard code minimum Ice Maker | Education | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| PPL | High Efficiency Ice Maker | Standard code minimum Ice Maker | Education | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| PPL | High Efficiency Ice Making Head | Standard Ice Making Head | Education | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.7 |
| PPL | High Efficiency Ice Making Head | Standard Ice Making Head | Education | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.7 |
| PPL | High R-Value Glass Doors | Base Refrigeration System - Grocery | Education | Refrigeration | Existing | building | 4,485 | 0.7% | 0.01 | 10 | \$58 | 0% | 0.3 |
| PPL | High R-Value Glass Doors | Base Refrigeration System - Grocery | Education | Refrigeration | New | building | 4,485 | 0.7% | 0.01 | 10 | \$58 | 0% | 0.3 |
| PPL | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Education | Refrigeration | Early | Fixture | 373 | 56% | 0.02 | 8 | \$448 | 66% | 0.2 |
| PPL | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Education | Refrigeration | New | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 66% | 0.3 |
| PPL | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Education | Refrigeration | ROB | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 66% | 0.3 |
| PPL | No-heat glass doors | Standard low-temp reach-in | Education | Refrigeration | Existing | building | 4,485 | 20% | 0.2 | 10 | \$5,322 | 8% | 0.1 |
| PPL | No-heat glass doors | Standard low-temp reach-in | Education | Refrigeration | New | building | 4,485 | 20% | 0.2 | 10 | \$5,322 | 8% | 0.1 |
| PPL | Quick acting freezer doors | Std. Freezer Doors | Education | Refrigeration | Existing | building | 12,109 | 13% | 0.1 | 10 | \$3,132 | 56% | 0.2 |
| PPL | Quick acting freezer doors | Std. Freezer Doors | Education | Refrigeration | New | building | 12,109 | 13% | 0.1 | 10 | \$3,132 | 56% | 0.2 |
| PPL | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Education | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 30% | 0.4 |
| PPL | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Education | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.6 |
| PPL | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Education | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.6 |
| PPL | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 30% | 1.6 |
| PPL | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 2.8 |
| PPL | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 2.8 |
| PPL | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 30% | 1.6 |
| PPL | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 3.8 |
| PPL | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 3.8 |
| PPL | Refrigeration Commissioning | Non-commissioned refrigeration system | Education | Refrigeration | Existing | building | 39,466 | 9.5% | 0.10 | 3 | \$8,955 | 85% | 0.1 |
| PPL | Refrigeration Commissioning | Non-commissioned refrigeration system | Education | Refrigeration | New | building | 39,466 | 9.5% | 0.10 | 3 | \$8,955 | 85% | 0.1 |
| PPL | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Education | Refrigeration | Existing | building | 12,109 | 8.2% | 0.08 | 4 | \$87 | 22% | 2.1 |
| PPL | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Education | Refrigeration | Existing | building | 21,491 | 1.3% | 0.01 | 4 | \$94 | 22% | 0.5 |
| PPL | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Education | Refrigeration | New | building | 12,109 | 8.2% | 0.08 | 4 | \$87 | 22% | 2.1 |
| PPL | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Education | Refrigeration | New | building | 21,491 | 1.3% | 0.01 | 4 | \$94 | 22% | 0.5 |
| PPL | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Education | Refrigeration | Existing | building | 12,109 | 1.9% | 0.02 | 11 | \$148 | 79% | 0.7 |
| PPL | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Education | Refrigeration | New | building | 12,109 | 1.9% | 0.02 | 11 | \$148 | 79% | 0.7 |
| PPL | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Education | Refrigeration | Existing | building | 21,491 | 1.4% | 0.01 | 11 | \$148 | 79% | 0.9 |
| PPL | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Education | Refrigeration | New | building | 21,491 | 1.4% | 0.01 | 11 | \$148 | 79% | 0.9 |
| PPL | Vertical Night Covers | Display cases w/out night covers-High Temperature | Education | Refrigeration | Existing | building | 4,485 | 0.2% | 0.00 | 5 | \$66 | 9% | 0.0 |
| PPL | Vertical Night Covers | Display cases w/out night covers-High Temperature | Education | Refrigeration | New | building | 4,485 | 0.2% | 0.00 | 5 | \$66 | 9% | 0.0 |
| PPL | VSD Controlled Compressor | Compressor w/out VSD | Education | Refrigeration | Early | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 63% | 0.1 |
| PPL | VSD Controlled Compressor | Compressor w/out VSD | Education | Refrigeration | New | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 63% | 0.1 |
| PPL | VSD Controlled Compressor | Compressor w/out VSD | Education | Refrigeration | ROB | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 63% | 0.1 |
| PPL | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Education | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$269 | 24% | 0.9 |
| PPL | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Education | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$269 | 24% | 0.8 |
| PPL | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Education | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 24% | 3.0 |
| PPL | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Education | Refrigeration | New | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 24% | 2.9 |
| PPL | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Education | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 24% | 3.0 |
| PPL | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Education | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 24% | 2.9 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|---|-----------|-----------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 24% | 2.3 |
| PPL | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 24% | 2.2 |
| PPL | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$151 | 24% | 4.1 |
| PPL | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$151 | 24% | 3.9 |
| PPL | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$151 | 24% | 4.1 |
| PPL | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Education | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$151 | 24% | 3.9 |
| PPL | Adding reflective roof treatment | Std color roof | Education | Space Heating | Existing | building | 32,239 | 7.1% | 0.07 | 6 | \$19,619 | 82% | 0.0 |
| PPL | Adding reflective roof treatment | Std color roof | Education | Space Heating | New | building | 32,239 | 7.1% | 0.07 | 6 | \$19,619 | 82% | 0.0 |
| PPL | Adding window shade film | No shade film | Education | Space Heating | Existing | building | 32,239 | 1.3% | 0.4 | 10 | \$392 | 13% | 0.9 |
| PPL | Adding window shade film | No shade film | Education | Space Heating | New | building | 32,239 | 1.3% | 0.4 | 10 | \$392 | 13% | 0.9 |
| PPL | Adding window shade screen | No shade screen | Education | Space Heating | Existing | building | 32,239 | 1.1% | 0.01 | 10 | \$152 | 13% | 0.9 |
| PPL | Adding window shade screen | No shade screen | Education | Space Heating | New | building | 32,239 | 1.1% | 0.01 | 10 | \$152 | 13% | 0.9 |
| PPL | Automated control system | Manual Controls | Education | Space Heating | Existing | building | 32,239 | 17% | 0.2 | 15 | \$35,294 | 51% | 0.1 |
| PPL | Automated control system | Manual Controls | Education | Space Heating | New | building | 32,239 | 17% | 0.2 | 15 | \$35,294 | 94% | 0.1 |
| PPL | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Education | Space Heating | Existing | building | 32,239 | 1.6% | 0.02 | 15 | \$26,439 | 71% | 0.0 |
| PPL | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Education | Space Heating | New | building | 32,239 | 0.5% | 0.01 | 15 | \$25,131 | 94% | 0.0 |
| PPL | Duct Insulation, Add R8 | No Insulation | Education | Space Heating | Existing | building | 32,239 | 1.4% | 0.04 | 15 | \$256 | 20% | 1.1 |
| PPL | Duct Insulation, Add R8 | No Insulation | Education | Space Heating | New | building | 32,239 | 1.4% | 0.04 | 15 | \$256 | 10% | 1.1 |
| PPL | Efficient Unit Heating System | Existing Unit Heaters in PA | Education | Space Heating | Early | heater | 24,636 | 23% | 0.04 | 15 | \$3,289 | 83% | 0.9 |
| PPL | Efficient Unit Heating System | Std. Unit Heater | Education | Space Heating | New | heater | 21,864 | 13% | 0.02 | 15 | \$1,985 | 83% | 0.8 |
| PPL | Facility Commissioning | No Facility Commissioning | Education | Space Heating | New | building | 32,239 | 16% | 0.2 | 10 | \$5,327 | 89% | 0.4 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Education | Space Heating | Existing | building | 32,239 | 7.1% | 0.07 | 15 | \$143,007 | 25% | 0.0 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Education | Space Heating | New | building | 32,239 | 7.1% | 0.07 | 15 | \$143,007 | 35% | 0.0 |
| PPL | Hi Eff HVAC System Design | No HVAC Design | Education | Space Heating | New | building | 32,239 | 14% | 0.1 | 10 | \$79,063 | 51% | 0.0 |
| PPL | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Education | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$77 | 32% | 1.0 |
| PPL | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Education | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$77 | 32% | 1.0 |
| PPL | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Education | Space Heating | Existing | building | 32,239 | 3.5% | 0.04 | 10 | \$7,735 | 81% | 0.1 |
| PPL | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Education | Space Heating | New | building | 32,239 | 3.5% | 0.04 | 10 | \$7,735 | 81% | 0.1 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Education | Space Heating | Existing | building | 32,239 | 3.6% | 0.04 | 11 | \$286 | 49% | 1.8 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Education | Space Heating | New | building | 32,239 | 3.1% | 0.03 | 11 | \$146 | 49% | 3.0 |
| PPL | Re-Commissioning (Existing Construction) | No Re-Commissioning | Education | Space Heating | Existing | building | 32,239 | 16% | 0.2 | 5 | \$9,680 | 86% | 0.1 |
| PPL | VFD on Cooling Tower Fan | Motor w/out VFD | Education | Space Heating | Early | motor | 32,962 | 70% | 3.4 | 15 | \$2,843 | 88% | 5.3 |
| PPL | VFD on Cooling Tower Fan | Motor w/out VFD | Education | Space Heating | New | motor | 32,346 | 72% | 3.3 | 15 | \$2,843 | 88% | 5.3 |
| PPL | VFD on Cooling Tower Fan | Motor w/out VFD | Education | Space Heating | ROB | motor | 32,346 | 72% | 3.3 | 15 | \$2,843 | 88% | 5.3 |
| PPL | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Education | Space Heating | Existing | building | 32,239 | 3.6% | 0.04 | 15 | \$6,377 | 26% | 0.1 |
| PPL | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Education | Space Heating | New | building | 32,239 | 0.1% | 0.00 | 15 | \$4,891 | 94% | 0.0 |
| PPL | Green LED Traffic Light | Green Incandescent Traffic Light | Education | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 0% | 1.2 |
| PPL | Green LED Traffic Light | Green Incandescent Traffic Light | Education | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| PPL | Green LED Traffic Light | Green Incandescent Traffic Light | Education | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| PPL | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Education | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 0% | 3.0 |
| PPL | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Education | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| PPL | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Education | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| PPL | Induction Street Lighting | One 100W HPS Street Light Fixture | Education | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 0% | 0.3 |
| PPL | Induction Street Lighting | One 100W HPS Street Light Fixture | Education | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.7 |
| PPL | Induction Street Lighting | One 100W HPS Street Light Fixture | Education | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.7 |
| PPL | LED Street Lighting | One 100W HPS Street Light | Education | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 0% | 0.2 |
| PPL | LED Street Lighting | One 100W HPS Street Light | Education | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| PPL | LED Street Lighting | One 100W HPS Street Light | Education | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| PPL | Red LED Traffic Light | One Red Incandescent Traffic Light | Education | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 0% | 1.6 |
| PPL | Red LED Traffic Light | One Red Incandescent Traffic Light | Education | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| PPL | Red LED Traffic Light | One Red Incandescent Traffic Light | Education | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| PPL | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Education | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 0% | 0.1 |
| PPL | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Education | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| PPL | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Education | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| PPL | Demand controlled Circulating Systems | Constant circulation system | Education | Water Heating | Existing | building | 39,466 | 20% | 0.2 | 15 | \$7,161 | 59% | 0.6 |
| PPL | Demand controlled Circulating Systems | Constant circulation system | Education | Water Heating | New | building | 29,380 | 20% | 0.2 | 15 | \$7,161 | 59% | 0.5 |
| PPL | Drainwater Heat Recovery Water Heater | No heat recovery | Education | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.9 |
| PPL | Drainwater Heat Recovery Water Heater | No heat recovery | Education | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.9 |
| PPL | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Education | Water Heating | Existing | building | 29,380 | 5.9% | 0.06 | 12 | \$210 | 85% | 4.0 |
| PPL | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Education | Water Heating | New | building | 29,380 | 5.9% | 0.06 | 12 | \$60 | 85% | 14.1 |
| PPL | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Education | Water Heating | Early | water heater | 46,899 | 66% | 5.5 | 10 | \$3,611 | 68% | 4.2 |
| PPL | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Education | Water Heating | Early | water heater | 46,899 | 66% | 5.5 | 10 | \$3,611 | 68% | 4.2 |
| PPL | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Education | Water Heating | New | water heater | 46,899 | 66% | 5.5 | 10 | \$2,375 | 68% | 6.3 |
| PPL | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Education | Water Heating | New | water heater | 46,899 | 66% | 5.5 | 10 | \$2,375 | 68% | 6.3 |
| PPL | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Education | Water Heating | ROB | water heater | 45,596 | 65% | 5.3 | 10 | \$2,375 | 68% | 6.1 |
| PPL | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Education | Water Heating | ROB | water heater | 45,596 | 65% | 5.3 | 10 | \$2,375 | 68% | 6.1 |
| PPL | Heat Recovery Unit | Base Water Heating | Education | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.6 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|---|-----------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Heat Recovery Unit | Base Water Heating | Education | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.6 |
| PPL | Heat Trap | No Heat Trap | Education | Water Heating | Existing | building | 29,380 | 22% | 0.2 | 11 | \$200 | 50% | 14.7 |
| PPL | Heat Trap | No Heat Trap | Education | Water Heating | New | building | 29,380 | 22% | 0.2 | 11 | \$30 | 50% | 98.5 |
| PPL | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Education | Water Heating | Early | water heater | 46,899 | 5.9% | 0.5 | 15 | \$1,550 | 79% | 1.2 |
| PPL | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Education | Water Heating | Early | water heater | 46,899 | 5.9% | 0.5 | 15 | \$1,550 | 79% | 1.2 |
| PPL | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Education | Water Heating | New | water heater | 45,596 | 3.2% | 0.3 | 15 | \$614 | 79% | 1.7 |
| PPL | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Education | Water Heating | New | water heater | 45,596 | 3.2% | 0.3 | 15 | \$614 | 79% | 1.7 |
| PPL | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Education | Water Heating | ROB | water heater | 45,596 | 3.2% | 0.3 | 15 | \$614 | 79% | 1.7 |
| PPL | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Education | Water Heating | ROB | water heater | 45,596 | 3.2% | 0.3 | 15 | \$614 | 79% | 1.7 |
| PPL | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Education | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$646 | 81% | 28.2 |
| PPL | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Education | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 20.4 |
| PPL | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Education | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 20.4 |
| PPL | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Education | Water Heating | Existing | building | 29,380 | 0.4% | 0.00 | 13 | \$16 | 68% | 3.9 |
| PPL | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Education | Water Heating | New | building | 29,380 | 0.4% | 0.00 | 13 | \$16 | 0% | 4.0 |
| PPL | Hot Water Circulation Pump Time-Clock | Constant circulation system | Education | Water Heating | Existing | building | 29,380 | 5.3% | 0.05 | 10 | \$119 | 72% | 5.4 |
| PPL | Hot Water Circulation Pump Time-Clock | Constant circulation system | Education | Water Heating | New | building | 29,380 | 5.3% | 0.05 | 10 | \$119 | 72% | 5.4 |
| PPL | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Education | Water Heating | Existing | building | 29,380 | 0.2% | 0.00 | 7 | \$22 | 78% | 0.9 |
| PPL | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Education | Water Heating | New | building | 29,380 | 0.2% | 0.00 | 7 | \$0.5 | 78% | 38.6 |
| PPL | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Education | Water Heating | Existing | building | 29,380 | 0.6% | 0.01 | 5 | \$300 | 20% | 0.1 |
| PPL | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Education | Water Heating | New | building | 29,380 | 0.4% | 0.00 | 5 | \$194 | 20% | 0.1 |
| PPL | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Education | Water Heating | Existing | building | 29,380 | 6.5% | 0.07 | 9 | \$200 | 2% | 3.6 |
| PPL | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Education | Water Heating | New | building | 29,380 | 6.5% | 0.07 | 9 | \$48 | 2% | 14.8 |
| PPL | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Education | Water Heating | Early | water heater | 46,899 | 52% | 2.0 | 15 | \$13,680 | 32% | 1.1 |
| PPL | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Education | Water Heating | New | water heater | 45,596 | 51% | 1.9 | 15 | \$12,444 | 32% | 1.2 |
| PPL | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Education | Water Heating | ROB | water heater | 45,596 | 51% | 1.9 | 15 | \$12,444 | 32% | 1.2 |
| PPL | Ultrasonic Faucet Control | Manual Faucet Control | Education | Water Heating | Existing | building | 29,380 | 3.0% | 0.03 | 10 | \$5,081 | 77% | 0.1 |
| PPL | Ultrasonic Faucet Control | Manual Faucet Control | Education | Water Heating | New | building | 29,380 | 3.0% | 0.03 | 10 | \$5,081 | 77% | 0.1 |
| PPL | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Education | Water Heating | Existing | building | 29,380 | 2.2% | 0.02 | 4 | \$28 | 83% | 4.4 |
| PPL | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Education | Water Heating | New | building | 29,380 | 2.3% | 0.02 | 4 | \$28 | 83% | 4.5 |
| PPL | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Gov't | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.1 |
| PPL | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Gov't | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.1 |
| PPL | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Gov't | Cooking | Early | steamer | 51 | 46% | 0.00 | 12 | \$5,103 | 81% | 0.0 |
| PPL | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Gov't | Cooking | New | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| PPL | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Gov't | Cooking | ROB | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| PPL | Electric combination oven (Energy Star) | Standard Oven | Gov't | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.9 |
| PPL | Electric combination oven (Energy Star) | Standard Oven | Gov't | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.9 |
| PPL | Electric Convection Oven | Conventional convection oven w/ 65% efficiency | Gov't | Cooking | Early | oven | 8,641 | 37% | 0.6 | 12 | \$4,169 | 81% | 0.4 |
| PPL | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Gov't | Cooking | New | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.7 |
| PPL | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Gov't | Cooking | ROB | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.7 |
| PPL | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Gov't | Cooking | Early | fryer | 6,105 | 23% | 0.3 | 12 | \$9,291 | 86% | 0.1 |
| PPL | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Gov't | Cooking | New | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| PPL | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Gov't | Cooking | ROB | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| PPL | High Efficiency Griddle (ENERGY STAR) | Efficiency code minimum griddle (70% eff) | Gov't | Cooking | Early | griddle | 11,317 | 65% | 1.4 | 12 | \$4,992 | 86% | 0.8 |
| PPL | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Gov't | Cooking | New | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.2 |
| PPL | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Gov't | Cooking | ROB | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.2 |
| PPL | High Efficiency Induction Cooking | Standard Cooking | Gov't | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| PPL | High Efficiency Induction Cooking | Standard Cooking | Gov't | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| PPL | Active chilled beam cooling | No Active Chilled beam cooling | Gov't | Cooling Central | New | building | 2,842 | 5.3% | 0.05 | 15 | \$743 | 72% | 0.2 |
| PPL | Adding reflective roof treatment | Std color roof | Gov't | Cooling Central | Existing | building | 2,992 | 7.0% | 0.07 | 6 | \$12,711 | 82% | 0.0 |
| PPL | Adding reflective roof treatment | Std color roof | Gov't | Cooling Central | New | building | 2,992 | 7.0% | 0.07 | 6 | \$12,711 | 82% | 0.0 |
| PPL | Adding window shade film | No shade film | Gov't | Cooling Central | Existing | building | 2,992 | 1.3% | 0.4 | 10 | \$36 | 12% | 5.8 |
| PPL | Adding window shade film | No shade film | Gov't | Cooling Central | New | building | 2,992 | 1.3% | 0.4 | 10 | \$36 | 13% | 5.8 |
| PPL | Adding window shade screen | No shade screen | Gov't | Cooling Central | Existing | building | 2,992 | 1.1% | 0.01 | 10 | \$14 | 13% | 1.2 |
| PPL | Adding window shade screen | No shade screen | Gov't | Cooling Central | New | building | 2,992 | 1.0% | 0.01 | 10 | \$14 | 13% | 1.2 |
| PPL | Automated control system | Manual Controls | Gov't | Cooling Central | Existing | building | 2,992 | 17% | 0.2 | 15 | \$3,275 | 51% | 0.1 |
| PPL | Automated control system | Manual Controls | Gov't | Cooling Central | New | building | 2,992 | 17% | 0.2 | 15 | \$3,275 | 94% | 0.1 |
| PPL | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Gov't | Cooling Central | Existing | building | 2,992 | 3.4% | 0.03 | 15 | \$17,130 | 71% | 0.0 |
| PPL | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Gov't | Cooling Central | New | building | 2,992 | 1.1% | 0.01 | 15 | \$16,283 | 94% | 0.0 |
| PPL | Chilled Water Reset, Optimizer System for Chiller(s) | No Chilled Water Reset | Gov't | Cooling Central | Existing | building | 2,992 | 3.7% | 0.04 | 10 | \$14 | 69% | 4.4 |
| PPL | Chiller Tune Up Diagnostics | No Chiller Tune Up | Gov't | Cooling Central | Existing | building | 2,992 | 2.3% | 0.02 | 10 | \$3.0 | 59% | 12.4 |
| PPL | Chiller Tuneup/Diagnostics | No tuneup | Gov't | Cooling Central | Existing | building | 2,992 | 8.0% | 0.08 | 10 | \$7,639 | 59% | 0.0 |
| PPL | Chiller Tuneup/Diagnostics | No tuneup | Gov't | Cooling Central | New | building | 2,992 | 8.0% | 0.08 | 10 | \$7,639 | 59% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|--|---------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Cooling Tower Optimization | No Cooling Tower Optimization | Gov't | Cooling Central | Existing | building | 2,992 | 4.9% | 0.05 | 10 | \$14 | 73% | 5.9 |
| PPL | Duct Insulation, Add R8 | No Insulation | Gov't | Cooling Central | Existing | building | 2,992 | 1.4% | 0.04 | 15 | \$24 | 20% | 2.1 |
| PPL | Duct Insulation, Add R8 | No Insulation | Gov't | Cooling Central | New | building | 2,992 | 1.4% | 0.04 | 15 | \$24 | 10% | 2.1 |
| PPL | Facility Commissioning | No Facility Commissioning | Gov't | Cooling Central | New | building | 2,992 | 16% | 0.2 | 10 | \$142,780 | 89% | 0.0 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Gov't | Cooling Central | Existing | building | 2,992 | 7.0% | 0.07 | 15 | \$13,270 | 25% | 0.0 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Gov't | Cooling Central | New | building | 2,992 | 7.0% | 0.07 | 15 | \$13,270 | 35% | 0.0 |
| PPL | Hi Eff HVAC System Design | No HVAC Design | Gov't | Cooling Central | New | building | 2,992 | 7.3% | 0.07 | 10 | \$1,051,205 | 51% | 0.0 |
| PPL | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Gov't | Cooling Central | Early | ton | 4,365 | 24% | 0.4 | 15 | \$108,550 | 88% | 0.0 |
| PPL | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Gov't | Cooling Central | New | ton | 3,568 | 6.7% | 0.08 | 15 | \$12,927 | 88% | 0.0 |
| PPL | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Gov't | Cooling Central | ROB | ton | 3,568 | 6.7% | 0.08 | 15 | \$12,927 | 88% | 0.0 |
| PPL | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Gov't | Cooling Central | Early | ton | 6,522 | 23% | 0.5 | 15 | \$140,105 | 88% | 0.0 |
| PPL | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Gov't | Cooling Central | New | ton | 5,247 | 4.9% | 0.09 | 15 | \$9,336 | 88% | 0.0 |
| PPL | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Gov't | Cooling Central | ROB | ton | 5,247 | 4.9% | 0.09 | 15 | \$9,336 | 88% | 0.0 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Gov't | Cooling Central | Early | ton | 53,390 | 26% | 4.8 | 15 | \$105,354 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Gov't | Cooling Central | New | ton | 46,518 | 15% | 2.4 | 15 | \$30,530 | 88% | 0.2 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Gov't | Cooling Central | ROB | ton | 46,518 | 15% | 2.4 | 15 | \$30,530 | 88% | 0.2 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Gov't | Cooling Central | Early | ton | 79,963 | 23% | 6.4 | 15 | \$154,107 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Gov't | Cooling Central | New | ton | 73,456 | 16% | 4.1 | 15 | \$27,646 | 88% | 0.3 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Gov't | Cooling Central | ROB | ton | 79,963 | 23% | 6.4 | 15 | \$27,646 | 88% | 0.5 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Gov't | Cooling Central | Early | ton | 132,804 | 23% | 10.4 | 15 | \$302,924 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Gov't | Cooling Central | New | ton | 120,197 | 14% | 6.0 | 15 | \$115,432 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Gov't | Cooling Central | ROB | ton | 132,804 | 23% | 10.4 | 15 | \$115,432 | 88% | 0.2 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Gov't | Cooling Central | Early | ton | 159,365 | 23% | 12.5 | 15 | \$350,154 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Gov't | Cooling Central | New | ton | 144,236 | 14% | 7.3 | 15 | \$120,406 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Gov't | Cooling Central | ROB | ton | 159,365 | 23% | 12.5 | 15 | \$120,406 | 88% | 0.2 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Gov't | Cooling Central | Early | ton | 35,325 | 29% | 3.6 | 15 | \$83,632 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Gov't | Cooling Central | New | ton | 27,429 | 9.0% | 0.9 | 15 | \$40,211 | 88% | 0.0 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Gov't | Cooling Central | ROB | ton | 35,325 | 29% | 3.6 | 15 | \$40,211 | 88% | 0.2 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Gov't | Cooling Central | Early | ton | 60,696 | 35% | 7.3 | 15 | \$132,173 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Gov't | Cooling Central | New | ton | 45,269 | 13% | 2.0 | 15 | \$39,556 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Gov't | Cooling Central | ROB | ton | 45,269 | 13% | 2.0 | 15 | \$39,556 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Gov't | Cooling Central | Early | ton | 101,337 | 39% | 13.8 | 15 | \$187,029 | 88% | 0.2 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Gov't | Cooling Central | New | ton | 72,252 | 15% | 3.7 | 15 | \$33,554 | 88% | 0.2 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Gov't | Cooling Central | ROB | ton | 101,337 | 39% | 13.8 | 15 | \$33,554 | 88% | 0.9 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Gov't | Cooling Central | Early | ton | 17,733 | 30% | 1.8 | 15 | \$32,398 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Gov't | Cooling Central | New | ton | 14,049 | 11% | 0.5 | 15 | \$7,188 | 88% | 0.2 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Gov't | Cooling Central | ROB | ton | 17,733 | 30% | 1.8 | 15 | \$7,188 | 88% | 0.6 |
| PPL | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Gov't | Cooling Central | Existing | building | 2,992 | 1.0% | 0.01 | 10 | \$41,268 | 81% | 0.0 |
| PPL | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Gov't | Cooling Central | New | building | 2,992 | 1.0% | 0.01 | 10 | \$41,268 | 81% | 0.0 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Gov't | Cooling Central | Existing | building | 2,992 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.1 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Gov't | Cooling Central | New | building | 2,992 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.2 |
| PPL | Re-Commissioning (Existing Construction) | No Re-Commissioning | Gov't | Cooling Central | Existing | building | 2,992 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |
| PPL | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Gov't | Cooling Central | Existing | building | 2,992 | 6.0% | 0.06 | 15 | \$3,285 | 26% | 0.0 |
| PPL | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Gov't | Cooling Central | New | building | 2,992 | 0.2% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| PPL | <65k BTU/hr 14 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Gov't | Cooling Unitary | Early | ton | 2,302 | 16% | 0.3 | 15 | \$1,545 | 29% | 0.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|--|---------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Gov't | Cooling Unitary | New | ton | 2,085 | 7.1% | 0.1 | 15 | \$339 | 29% | 0.5 |
| PPL | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Gov't | Cooling Unitary | ROB | ton | 2,085 | 7.1% | 0.1 | 15 | \$339 | 29% | 0.5 |
| PPL | <65k BTU/hr 15 SEER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Gov't | Cooling Unitary | Early | ton | 2,302 | 22% | 0.2 | 15 | \$1,821 | 30% | 0.2 |
| PPL | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Gov't | Cooling Unitary | New | ton | 2,085 | 13% | 0.3 | 15 | \$714 | 30% | 0.6 |
| PPL | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Gov't | Cooling Unitary | ROB | ton | 2,085 | 13% | 0.3 | 15 | \$714 | 30% | 0.6 |
| PPL | <65k BTU/hr 16 SEER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Gov't | Cooling Unitary | Early | ton | 2,302 | 26% | 0.4 | 15 | \$2,098 | 31% | 0.3 |
| PPL | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Gov't | Cooling Unitary | New | ton | 2,085 | 19% | 0.3 | 15 | \$1,089 | 31% | 0.4 |
| PPL | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Gov't | Cooling Unitary | ROB | ton | 2,085 | 19% | 0.3 | 15 | \$1,089 | 31% | 0.4 |
| PPL | >760k min 10.2 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Gov't | Cooling Unitary | Early | ton | 58,251 | 3.7% | 1.5 | 15 | \$68,066 | 56% | 0.0 |
| PPL | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Gov't | Cooling Unitary | New | ton | 58,998 | 4.9% | 2.0 | 15 | \$6,231 | 56% | 0.5 |
| PPL | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Gov't | Cooling Unitary | ROB | ton | 58,998 | 4.9% | 2.0 | 15 | \$6,231 | 56% | 0.5 |
| PPL | 135-240k min 12 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Gov't | Cooling Unitary | Early | ton | 13,738 | 18% | 1.8 | 15 | \$18,135 | 79% | 0.1 |
| PPL | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Gov't | Cooling Unitary | New | ton | 12,497 | 10.0% | 0.9 | 15 | \$1,948 | 79% | 0.7 |
| PPL | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Gov't | Cooling Unitary | ROB | ton | 12,497 | 10.0% | 0.9 | 15 | \$1,948 | 79% | 0.7 |
| PPL | 240k-760k min 11 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Gov't | Cooling Unitary | Early | ton | 38,323 | 9.0% | 2.4 | 15 | \$44,809 | 66% | 0.1 |
| PPL | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Gov't | Cooling Unitary | New | ton | 38,418 | 9.3% | 2.5 | 15 | \$4,813 | 66% | 0.8 |
| PPL | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Gov't | Cooling Unitary | ROB | ton | 38,418 | 9.3% | 2.5 | 15 | \$4,813 | 66% | 0.8 |
| PPL | 65k-135k BTU/hr 12 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Gov't | Cooling Unitary | Early | ton | 8,449 | 17% | 1.0 | 15 | \$10,946 | 86% | 0.1 |
| PPL | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Gov't | Cooling Unitary | New | ton | 7,530 | 6.7% | 0.4 | 15 | \$1,392 | 86% | 0.4 |
| PPL | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Gov't | Cooling Unitary | ROB | ton | 7,530 | 6.7% | 0.4 | 15 | \$1,392 | 86% | 0.4 |
| PPL | Adding reflective roof treatment | Std color roof | Gov't | Cooling Unitary | Existing | building | 44,410 | 7.1% | 0.07 | 6 | \$12,711 | 82% | 0.1 |
| PPL | Adding reflective roof treatment | Std color roof | Gov't | Cooling Unitary | New | building | 44,410 | 7.1% | 0.07 | 6 | \$12,711 | 82% | 0.1 |
| PPL | Adding window shade film | No shade film | Gov't | Cooling Unitary | Existing | building | 44,410 | 1.3% | 0.4 | 10 | \$540 | 12% | 0.8 |
| PPL | Adding window shade film | No shade film | Gov't | Cooling Unitary | New | building | 44,410 | 1.3% | 0.4 | 10 | \$540 | 13% | 0.8 |
| PPL | Adding window shade screen | No shade screen | Gov't | Cooling Unitary | Existing | building | 44,410 | 1.1% | 0.01 | 10 | \$209 | 12% | 0.9 |
| PPL | Adding window shade screen | No shade screen | Gov't | Cooling Unitary | New | building | 44,410 | 1.1% | 0.01 | 10 | \$209 | 13% | 0.9 |
| PPL | Automated control system | Manual Controls | Gov't | Cooling Unitary | Existing | building | 44,410 | 17% | 0.2 | 15 | \$48,619 | 51% | 0.1 |
| PPL | Automated control system | Manual Controls | Gov't | Cooling Unitary | New | building | 44,410 | 17% | 0.2 | 15 | \$48,619 | 94% | 0.1 |
| PPL | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Gov't | Cooling Unitary | Existing | building | 44,410 | 3.4% | 0.03 | 15 | \$17,130 | 71% | 0.0 |
| PPL | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Gov't | Cooling Unitary | New | building | 44,410 | 1.1% | 0.01 | 15 | \$16,283 | 94% | 0.0 |
| PPL | Duct Insulation, Add R8 | No Insulation | Gov't | Cooling Unitary | Existing | building | 44,410 | 1.4% | 0.04 | 15 | \$353 | 20% | 1.0 |
| PPL | Duct Insulation, Add R8 | No Insulation | Gov't | Cooling Unitary | New | building | 44,410 | 1.4% | 0.04 | 15 | \$353 | 10% | 1.0 |
| PPL | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Gov't | Cooling Unitary | Existing | building | 24,269 | 13% | 0.1 | 1 | \$233 | 73% | 0.7 |
| PPL | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Gov't | Cooling Unitary | New | building | 24,269 | 13% | 0.1 | 1 | \$233 | 73% | 0.7 |
| PPL | ECM Motors for split systems | Std Shaded Pole Motor | Gov't | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.6 |
| PPL | ECM Motors for split systems | Std Shaded Pole Motor | Gov't | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.6 |
| PPL | Facility Commissioning | No Facility Commissioning | Gov't | Cooling Unitary | New | building | 44,410 | 16% | 0.2 | 10 | \$1,317 | 89% | 2.0 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Gov't | Cooling Unitary | Existing | building | 44,410 | 7.1% | 0.07 | 15 | \$196,995 | 25% | 0.0 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Gov't | Cooling Unitary | New | building | 44,410 | 7.1% | 0.07 | 15 | \$196,995 | 35% | 0.0 |
| PPL | Hi Eff HVAC System Design | No HVAC Design | Gov't | Cooling Unitary | New | building | 44,410 | 7.3% | 0.07 | 10 | \$13,270 | 51% | 0.1 |
| PPL | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Gov't | Cooling Unitary | Existing | building | 44,410 | 5.0% | 0.05 | 5 | \$225 | 59% | 2.1 |
| PPL | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Gov't | Cooling Unitary | Existing | building | 44,410 | 1.1% | 0.01 | 10 | \$44,351 | 86% | 0.0 |
| PPL | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Gov't | Cooling Unitary | New | building | 44,410 | 1.1% | 0.01 | 10 | \$44,351 | 86% | 0.0 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) | Gov't | Cooling Unitary | Existing | building | 44,410 | 2.0% | 0.02 | 11 | \$286 | 49% | 1.3 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Gov't | Cooling Unitary | New | building | 44,410 | 1.7% | 0.02 | 11 | \$146 | 49% | 2.2 |
| PPL | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Gov't | Cooling Unitary | Early | unit | 779 | 19% | 0.1 | 15 | \$849 | 85% | 0.2 |
| PPL | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Gov't | Cooling Unitary | New | unit | 787 | 20% | 0.1 | 15 | \$356 | 85% | 0.5 |
| PPL | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Gov't | Cooling Unitary | ROB | unit | 787 | 20% | 0.1 | 15 | \$356 | 85% | 0.5 |
| PPL | Re-Commissioning (Existing Construction) | No Re-Commissioning | Gov't | Cooling Unitary | Existing | building | 44,410 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.2 |
| PPL | Room AC (w/ louvered sides) | Existing efficiency Room AC in Pennsylvania (2000 Federal Standards) | Gov't | Cooling Unitary | Early | ton | 1,087 | 13% | 0.05 | 9 | \$348 | 82% | 0.2 |
| PPL | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Gov't | Cooling Unitary | New | ton | 985 | 4.5% | 0.02 | 9 | \$17 | 82% | 1.3 |
| PPL | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Gov't | Cooling Unitary | ROB | ton | 985 | 4.5% | 0.02 | 9 | \$17 | 82% | 1.3 |
| PPL | Wall Insualtions (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Gov't | Cooling Unitary | Existing | building | 44,411 | 6.0% | 0.06 | 15 | \$3,285 | 26% | 0.5 |
| PPL | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Gov't | Cooling Unitary | New | building | 44,411 | 0.2% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| PPL | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Gov't | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 1.1 |
| PPL | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Gov't | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.5 |
| PPL | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Gov't | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.5 |
| PPL | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Gov't | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 80% | 0.2 |
| PPL | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Gov't | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 80% | 0.2 |
| PPL | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Gov't | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 80% | 0.2 |
| PPL | LED exterior lighting | 250 Watt Incandescent | Gov't | Ext. Lighting | ROB | measure | 282 | 83% | 0.04 | 15 | \$104 | 89% | 1.6 |
| PPL | LED exterior lighting | 250 Watt Incandescent | Gov't | Ext. Lighting | ROB | measure | 282 | 83% | 0.04 | 15 | \$104 | 89% | 1.6 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|---|---------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | LED exterior lighting | 250 Watt Incandescent | Gov't | Ext. Lighting | ROB | measure | 282 | 83% | 0.04 | 15 | \$104 | 89% | 1.6 |
| PPL | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Gov't | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 75% | 0.3 |
| PPL | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Gov't | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 75% | 0.2 |
| PPL | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Gov't | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.8 |
| PPL | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Gov't | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.1 |
| PPL | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Gov't | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.8 |
| PPL | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Gov't | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.1 |
| PPL | Adding reflective roof treatment | Std color roof | Gov't | Heat Pump | Existing | building | 4,614 | 6.9% | 0.07 | 6 | \$12,711 | 82% | 0.0 |
| PPL | Adding reflective roof treatment | Std color roof | Gov't | Heat Pump | New | building | 4,614 | 6.9% | 0.07 | 6 | \$12,711 | 82% | 0.0 |
| PPL | Adding window shade film | No shade film | Gov't | Heat Pump | Existing | building | 4,614 | 3.9% | 0.4 | 10 | \$56 | 12% | 4.7 |
| PPL | Adding window shade film | No shade film | Gov't | Heat Pump | New | building | 4,614 | 3.9% | 0.4 | 10 | \$56 | 12% | 4.7 |
| PPL | Adding window shade screen | No shade screen | Gov't | Heat Pump | Existing | building | 4,614 | 0.3% | 0.01 | 10 | \$22 | 12% | 1.1 |
| PPL | Adding window shade screen | No shade screen | Gov't | Heat Pump | New | building | 4,614 | 0.3% | 0.01 | 10 | \$22 | 12% | 1.1 |
| PPL | Automated control system | Manual Controls | Gov't | Heat Pump | Existing | building | 4,614 | 17% | 0.2 | 15 | \$5,051 | 51% | 0.1 |
| PPL | Automated control system | Manual Controls | Gov't | Heat Pump | New | building | 4,614 | 17% | 0.2 | 15 | \$5,051 | 94% | 0.1 |
| PPL | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Gov't | Heat Pump | Existing | building | 4,614 | 3.4% | 0.03 | 15 | \$17,130 | 71% | 0.0 |
| PPL | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Gov't | Heat Pump | New | building | 4,614 | 1.1% | 0.01 | 15 | \$16,283 | 94% | 0.0 |
| PPL | Duct Insulation, Add R8 | No Insulation | Gov't | Heat Pump | Existing | building | 4,614 | 4.0% | 0.04 | 15 | \$37 | 12% | 3.5 |
| PPL | Duct Insulation, Add R8 | No Insulation | Gov't | Heat Pump | New | building | 4,614 | 4.0% | 0.04 | 15 | \$37 | 6% | 3.5 |
| PPL | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Gov't | Heat Pump | Early | heat pump | 2,538 | 12% | 0.03 | 15 | \$4,070 | 83% | 0.0 |
| PPL | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Gov't | Heat Pump | New | heat pump | 2,438 | 7.9% | 0.02 | 15 | \$1,097 | 83% | 0.1 |
| PPL | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Gov't | Heat Pump | ROB | heat pump | 2,438 | 7.9% | 0.02 | 15 | \$1,097 | 83% | 0.1 |
| PPL | Facility Commissioning | No Facility Commissioning | Gov't | Heat Pump | New | building | 4,614 | 16% | 0.2 | 10 | \$142,780 | 89% | 0.0 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Gov't | Heat Pump | Existing | building | 4,614 | 7.0% | 0.07 | 15 | \$20,465 | 25% | 0.0 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Gov't | Heat Pump | New | building | 4,614 | 7.0% | 0.07 | 15 | \$20,465 | 35% | 0.0 |
| PPL | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Gov't | Heat Pump | Early | heat pump | 25,835 | 15% | 0.3 | 15 | \$91,117 | 19% | 0.0 |
| PPL | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Gov't | Heat Pump | New | heat pump | 25,050 | 12% | 0.3 | 15 | \$33,927 | 19% | 0.1 |
| PPL | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Gov't | Heat Pump | ROB | heat pump | 25,050 | 12% | 0.3 | 15 | \$33,927 | 19% | 0.1 |
| PPL | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Gov't | Heat Pump | Early | heat pump | 25,835 | 15% | 0.3 | 15 | \$58,356 | 19% | 0.0 |
| PPL | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Gov't | Heat Pump | New | heat pump | 25,050 | 12% | 0.3 | 15 | \$1,167 | 19% | 1.5 |
| PPL | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Gov't | Heat Pump | ROB | heat pump | 25,050 | 12% | 0.3 | 15 | \$1,167 | 19% | 1.5 |
| PPL | Hi Eff HVAC System Design | No HVAC Design | Gov't | Heat Pump | New | building | 4,614 | 7.3% | 0.07 | 10 | \$1,051,205 | 51% | 0.0 |
| PPL | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Gov't | Heat Pump | Early | heat pump | 6,769 | 16% | 0.09 | 12 | \$4,298 | 81% | 0.1 |
| PPL | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Gov't | Heat Pump | Early | heat pump | 6,769 | 26% | 0.2 | 12 | \$5,883 | 81% | 0.1 |
| PPL | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Gov't | Heat Pump | New | heat pump | 6,502 | 12% | 0.07 | 12 | \$852 | 81% | 0.5 |
| PPL | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Gov't | Heat Pump | New | heat pump | 6,502 | 23% | 0.1 | 12 | \$2,437 | 81% | 0.3 |
| PPL | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Gov't | Heat Pump | ROB | heat pump | 6,502 | 12% | 0.07 | 12 | \$852 | 81% | 0.5 |
| PPL | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Gov't | Heat Pump | ROB | heat pump | 6,502 | 23% | 0.1 | 12 | \$2,437 | 81% | 0.3 |
| PPL | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Gov't | Heat Pump | Existing | building | 4,614 | 1.0% | 0.01 | 10 | \$39,486 | 81% | 0.0 |
| PPL | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Gov't | Heat Pump | New | building | 4,614 | 1.0% | 0.01 | 10 | \$39,486 | 81% | 0.0 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Gov't | Heat Pump | Existing | building | 4,614 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.2 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Gov't | Heat Pump | New | building | 4,614 | 2.1% | 0.02 | 11 | \$146 | 49% | 0.4 |
| PPL | Re-Commissioning (Existing Construction) | No Re-Commissioning | Gov't | Heat Pump | Existing | building | 4,614 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |
| PPL | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Gov't | Heat Pump | Existing | building | 4,614 | 6.0% | 0.06 | 15 | \$3,285 | 26% | 0.1 |
| PPL | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Gov't | Heat Pump | New | building | 4,614 | 0.2% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| PPL | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Gov't | Heat Pump | Early | heat pump | 11,022 | 37% | 0.4 | 15 | \$35,347 | 28% | 0.1 |
| PPL | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Gov't | Heat Pump | New | heat pump | 10,576 | 34% | 0.3 | 15 | \$15,739 | 28% | 0.1 |
| PPL | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Gov't | Heat Pump | ROB | heat pump | 10,576 | 34% | 0.3 | 15 | \$15,739 | 28% | 0.1 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Gov't | High Bay Lighting | Early | Fixture | 299 | 9.6% | 0.01 | 13 | \$875 | 39% | 0.0 |
| PPL | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Gov't | High Bay Lighting | Early | Fixture | 299 | 9.5% | 0.01 | 13 | \$875 | 28% | 0.0 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Gov't | High Bay Lighting | Early | Fixture | 461 | 41% | 0.04 | 13 | \$875 | 36% | 0.1 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Gov't | High Bay Lighting | New | Fixture | 227 | 9.6% | 0.00 | 13 | \$372 | 39% | 0.0 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Gov't | High Bay Lighting | New | Fixture | 211 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Gov't | High Bay Lighting | New | Fixture | 350 | 41% | 0.03 | 13 | \$397 | 36% | 0.2 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Gov't | High Bay Lighting | ROB | Fixture | 299 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.0 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Gov't | High Bay Lighting | ROB | Fixture | 278 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Gov't | High Bay Lighting | ROB | Fixture | 461 | 41% | 0.04 | 13 | \$397 | 36% | 0.3 |
| PPL | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Gov't | High Bay Lighting | Early | Fixture | 580 | 19% | 0.02 | 13 | \$877 | 38% | 0.1 |
| PPL | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Gov't | High Bay Lighting | Early | Fixture | 587 | 20% | 0.02 | 13 | \$877 | 38% | 0.1 |
| PPL | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | Early | Fixture | 1,708 | 73% | 0.2 | 13 | \$877 | 38% | 0.9 |
| PPL | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Gov't | High Bay Lighting | New | Fixture | 441 | 19% | 0.02 | 13 | \$372 | 38% | 0.1 |
| PPL | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | New | Fixture | 1,298 | 73% | 0.2 | 13 | \$383 | 38% | 1.5 |
| PPL | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Gov't | High Bay Lighting | ROB | Fixture | 580 | 19% | 0.02 | 13 | \$372 | 38% | 0.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|---|---------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | ROB | Fixture | 1,708 | 73% | 0.2 | 13 | \$383 | 38% | 2.0 |
| PPL | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Gov't | High Bay Lighting | Early | Fixture | 580 | 25% | 0.03 | 13 | \$580 | 29% | 0.2 |
| PPL | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Gov't | High Bay Lighting | Early | Fixture | 569 | 23% | 0.03 | 13 | \$580 | 28% | 0.1 |
| PPL | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | Early | Fixture | 1,708 | 74% | 0.2 | 13 | \$580 | 36% | 1.4 |
| PPL | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Gov't | High Bay Lighting | New | Fixture | 441 | 25% | 0.02 | 13 | \$75 | 29% | 0.9 |
| PPL | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | New | Fixture | 1,298 | 74% | 0.2 | 13 | \$86 | 36% | 7.0 |
| PPL | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Gov't | High Bay Lighting | ROB | Fixture | 580 | 25% | 0.03 | 13 | \$75 | 29% | 1.2 |
| PPL | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | ROB | Fixture | 1,708 | 74% | 0.2 | 13 | \$86 | 36% | 9.3 |
| PPL | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Gov't | High Bay Lighting | Early | Fixture | 151 | 0.2% | 0.00 | 13 | \$861 | 38% | 0.0 |
| PPL | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Gov't | High Bay Lighting | Early | Fixture | 326 | 54% | 0.03 | 13 | \$861 | 38% | 0.1 |
| PPL | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Gov't | High Bay Lighting | New | Fixture | 248 | 54% | 0.03 | 13 | \$382 | 38% | 0.2 |
| PPL | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Gov't | High Bay Lighting | ROB | Fixture | 326 | 54% | 0.03 | 13 | \$382 | 38% | 0.3 |
| PPL | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Gov't | High Bay Lighting | Early | Fixture | 739 | 18% | 0.03 | 13 | \$512 | 25% | 0.2 |
| PPL | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Gov't | High Bay Lighting | Early | Fixture | 773 | 22% | 0.03 | 13 | \$512 | 28% | 0.2 |
| PPL | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | Early | Fixture | 1,708 | 65% | 0.2 | 13 | \$512 | 36% | 1.3 |
| PPL | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Gov't | High Bay Lighting | New | Fixture | 562 | 18% | 0.02 | 13 | \$16 | 25% | 3.9 |
| PPL | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | New | Fixture | 1,298 | 65% | 0.2 | 13 | \$18 | 36% | 28.5 |
| PPL | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Gov't | High Bay Lighting | ROB | Fixture | 739 | 18% | 0.03 | 13 | \$16 | 25% | 5.2 |
| PPL | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | ROB | Fixture | 1,708 | 65% | 0.2 | 13 | \$18 | 36% | 37.5 |
| PPL | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Gov't | High Bay Lighting | Early | Fixture | 739 | 1.5% | 0.00 | 13 | \$582 | 19% | 0.0 |
| PPL | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Gov't | High Bay Lighting | Early | Fixture | 761 | 4.3% | 0.01 | 13 | \$582 | 19% | 0.0 |
| PPL | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | Early | Fixture | 1,708 | 57% | 0.2 | 13 | \$582 | 19% | 1.1 |
| PPL | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Gov't | High Bay Lighting | New | Fixture | 562 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| PPL | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | New | Fixture | 1,298 | 57% | 0.1 | 13 | \$88 | 19% | 5.3 |
| PPL | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Gov't | High Bay Lighting | ROB | Fixture | 739 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| PPL | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | ROB | Fixture | 1,708 | 57% | 0.2 | 13 | \$88 | 19% | 6.9 |
| PPL | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Gov't | High Bay Lighting | Early | Fixture | 314 | 29% | 0.01 | 13 | \$517 | 71% | 0.1 |
| PPL | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Gov't | High Bay Lighting | Early | Fixture | 262 | 15% | 0.01 | 13 | \$517 | 95% | 0.0 |
| PPL | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Gov't | High Bay Lighting | Early | Fixture | 390 | 43% | 0.02 | 13 | \$517 | 95% | 0.2 |
| PPL | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Gov't | High Bay Lighting | Early | Fixture | 361 | 38% | 0.02 | 13 | \$517 | 95% | 0.2 |
| PPL | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Gov't | High Bay Lighting | New | Fixture | 199 | 15% | 0.00 | 13 | \$25 | 95% | 0.7 |
| PPL | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Gov't | High Bay Lighting | New | Fixture | 296 | 43% | 0.02 | 13 | \$51 | 95% | 1.4 |
| PPL | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Gov't | High Bay Lighting | ROB | Fixture | 262 | 15% | 0.01 | 13 | \$25 | 95% | 0.9 |
| PPL | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Gov't | High Bay Lighting | ROB | Fixture | 390 | 43% | 0.02 | 13 | \$51 | 95% | 1.9 |
| PPL | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Gov't | High Bay Lighting | Early | lamp | 114 | 16% | 0.00 | 9 | \$8.7 | 99% | 0.9 |
| PPL | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Gov't | High Bay Lighting | New | lamp | 68 | 13% | 0.00 | 9 | \$1.6 | 91% | 2.3 |
| PPL | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Gov't | High Bay Lighting | ROB | lamp | 110 | 13% | 0.00 | 9 | \$1.6 | 91% | 3.8 |
| PPL | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Gov't | High Bay Lighting | Early | Fixture | 1,748 | 23% | 0.08 | 13 | \$639 | 5% | 0.4 |
| PPL | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Gov't | High Bay Lighting | Early | Fixture | 1,373 | 1.6% | 0.00 | 13 | \$639 | 28% | 0.0 |
| PPL | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | Early | Fixture | 3,417 | 60% | 0.4 | 13 | \$639 | 18% | 2.0 |
| PPL | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Gov't | High Bay Lighting | New | Fixture | 1,329 | 23% | 0.06 | 13 | \$96 | 5% | 2.0 |
| PPL | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Gov't | High Bay Lighting | ROB | Fixture | 1,748 | 23% | 0.08 | 13 | \$96 | 5% | 2.6 |
| PPL | Auto Off Time Switch | Lighting w/ No Controls | Gov't | High Bay Lighting | Existing | building | 854 | 24% | 0.2 | 8 | \$1,034 | 13% | 0.2 |
| PPL | Auto Off Time Switch | Lighting w/ No Controls | Gov't | High Bay Lighting | New | building | 854 | 6.9% | 0.07 | 8 | \$1,034 | 0% | 0.0 |
| PPL | Central Lighting Control System | Lighting w/ No Controls | Gov't | High Bay Lighting | Existing | building | 854 | 38% | 0.4 | 8 | \$1,034 | 13% | 0.3 |
| PPL | Central Lighting Control System | Lighting w/ No Controls | Gov't | High Bay Lighting | New | building | 854 | 14% | 0.1 | 8 | \$1,034 | 13% | 0.1 |
| PPL | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Gov't | High Bay Lighting | New | building | 854 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.0 |
| PPL | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Gov't | High Bay Lighting | New | building | 854 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |
| PPL | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Gov't | High Bay Lighting | New | building | 854 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| PPL | Indoor Daylight Sensors | Lighting w/ No Controls | Gov't | High Bay Lighting | Existing | building | 854 | 28% | 0.3 | 8 | \$5,088 | 13% | 0.0 |
| PPL | Indoor Daylight Sensors | Lighting w/ No Controls | Gov't | High Bay Lighting | New | building | 854 | 4.0% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| PPL | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Gov't | High Bay Lighting | Early | Fixture | 1,748 | 92% | 0.3 | 13 | \$1,941 | 95% | 0.5 |
| PPL | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | Early | Fixture | 3,417 | 96% | 0.6 | 13 | \$1,941 | 95% | 1.1 |
| PPL | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Gov't | High Bay Lighting | New | Fixture | 1,329 | 92% | 0.2 | 13 | \$1,468 | 95% | 0.5 |
| PPL | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | New | Fixture | 2,597 | 96% | 0.5 | 13 | \$1,149 | 95% | 1.4 |
| PPL | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Gov't | High Bay Lighting | ROB | Fixture | 1,748 | 92% | 0.3 | 13 | \$1,468 | 95% | 0.7 |
| PPL | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Gov't | High Bay Lighting | ROB | Fixture | 3,417 | 96% | 0.6 | 13 | \$1,149 | 95% | 1.8 |
| PPL | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Gov't | High Bay Lighting | Early | Fixture | 580 | 67% | 0.07 | 13 | \$985 | 95% | 0.2 |
| PPL | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Gov't | High Bay Lighting | Early | Fixture | 1,708 | 89% | 0.3 | 13 | \$985 | 95% | 1.0 |
| PPL | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Gov't | High Bay Lighting | Early | Fixture | 469 | 59% | 0.05 | 13 | \$985 | 95% | 0.2 |
| PPL | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Gov't | High Bay Lighting | New | Fixture | 441 | 67% | 0.06 | 13 | \$480 | 95% | 0.4 |
| PPL | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Gov't | High Bay Lighting | New | Fixture | 1,298 | 89% | 0.2 | 13 | \$491 | 95% | 1.5 |
| PPL | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Gov't | High Bay Lighting | New | Fixture | 356 | 59% | 0.04 | 13 | \$406 | 95% | 0.3 |
| PPL | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Gov't | High Bay Lighting | ROB | Fixture | 580 | 67% | 0.07 | 13 | \$480 | 95% | 0.5 |
| PPL | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Gov't | High Bay Lighting | ROB | Fixture | 1,708 | 89% | 0.3 | 13 | \$491 | 95% | 1.9 |
| PPL | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Gov't | High Bay Lighting | ROB | Fixture | 469 | 59% | 0.05 | 13 | \$406 | 95% | 0.4 |
| PPL | Occupancy Sensor | Lighting w/ No Controls | Gov't | High Bay Lighting | Existing | building | 854 | 24% | 0.2 | 8 | \$1,558 | 11% | 0.1 |
| PPL | Occupancy Sensor | Lighting w/ No Controls | Gov't | High Bay Lighting | New | building | 854 | 6.9% | 0.07 | 8 | \$1,558 | 0% | 0.0 |
| PPL | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Gov't | High Bay Lighting | Existing | building | 854 | 28% | 0.3 | 8 | \$5,088 | 11% | 0.0 |
| PPL | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Gov't | High Bay Lighting | New | building | 854 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| PPL | Time Clock Control | Lighting w/ No Controls | Gov't | High Bay Lighting | Existing | building | 854 | 28% | 0.3 | 8 | \$1,034 | 13% | 0.2 |
| PPL | Time Clock Control | Lighting w/ No Controls | Gov't | High Bay Lighting | New | building | 854 | 4.1% | 0.04 | 8 | \$1,034 | 0% | 0.0 |
| PPL | Auto Off Time Switch | Lighting w/ No Controls | Gov't | Lin. Fluor. Lighting | Existing | building | 15,096 | 24% | 0.2 | 8 | \$1,034 | 13% | 1.2 |
| PPL | Auto Off Time Switch | Lighting w/ No Controls | Gov't | Lin. Fluor. Lighting | New | building | 15,096 | 7.0% | 0.07 | 8 | \$1,034 | 0% | 0.4 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|--|---------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Central Lighting Control System | Lighting w/ No Controls | Gov't | Lin. Fluor. Lighting | Existing | building | 15,096 | 38% | 0.4 | 8 | \$1,034 | 12% | 2.0 |
| PPL | Central Lighting Control System | Lighting w/ No Controls | Gov't | Lin. Fluor. Lighting | New | building | 15,096 | 14% | 0.1 | 8 | \$1,034 | 12% | 0.7 |
| PPL | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Gov't | Lin. Fluor. Lighting | New | building | 15,096 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.0 |
| PPL | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Gov't | Lin. Fluor. Lighting | New | building | 15,096 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |
| PPL | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Gov't | Lin. Fluor. Lighting | New | building | 15,096 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| PPL | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Gov't | Lin. Fluor. Lighting | Early | Lamp | 229 | 38% | 0.01 | 9 | \$8.3 | 94% | 4.5 |
| PPL | Indoor Daylight Sensors | Lighting w/ No Controls | Gov't | Lin. Fluor. Lighting | Existing | building | 15,096 | 28% | 0.3 | 8 | \$5,088 | 13% | 0.3 |
| PPL | Indoor Daylight Sensors | Lighting w/ No Controls | Gov't | Lin. Fluor. Lighting | New | building | 15,096 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | Early | Lamp | 38 | 19% | 0.00 | 15 | \$36 | 94% | 0.1 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 40W T12 Lamp, Magnetic Ballast | Gov't | Lin. Fluor. Lighting | Early | Lamp | 83 | 63% | 0.01 | 15 | \$36 | 94% | 1.0 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | Early | Lamp | 46 | 34% | 0.00 | 15 | \$36 | 94% | 0.3 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | Early | Lamp | 45 | 32% | 0.00 | 15 | \$36 | 94% | 0.3 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | New | Lamp | 29 | 19% | 0.00 | 15 | \$28 | 94% | 0.1 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | New | Lamp | 34 | 32% | 0.00 | 15 | \$29 | 94% | 0.3 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | New | Lamp | 35 | 34% | 0.00 | 15 | \$22 | 94% | 0.4 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | New | Lamp | 34 | 32% | 0.00 | 15 | \$29 | 94% | 0.3 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | ROB | Lamp | 38 | 19% | 0.00 | 15 | \$28 | 94% | 0.2 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | ROB | Lamp | 45 | 32% | 0.00 | 15 | \$29 | 94% | 0.3 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | ROB | Lamp | 46 | 34% | 0.00 | 15 | \$22 | 94% | 0.5 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | ROB | Lamp | 45 | 32% | 0.00 | 15 | \$29 | 94% | 0.3 |
| PPL | Occupancy Sensor | Lighting w/ No Controls | Gov't | Lin. Fluor. Lighting | Existing | building | 15,096 | 24% | 0.2 | 8 | \$1,558 | 12% | 0.8 |
| PPL | Occupancy Sensor | Lighting w/ No Controls | Gov't | Lin. Fluor. Lighting | New | building | 15,096 | 7.0% | 0.07 | 8 | \$1,558 | 0% | 0.2 |
| PPL | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Gov't | Lin. Fluor. Lighting | Existing | building | 15,096 | 28% | 0.3 | 8 | \$5,088 | 11% | 0.3 |
| PPL | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Gov't | Lin. Fluor. Lighting | New | building | 15,096 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 40W T12 w/ Magnetic Ballast | Gov't | Lin. Fluor. Lighting | Early | Lamp | 229 | 54% | 0.02 | 9 | \$9.1 | 94% | 5.9 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | Early | Lamp | 147 | 28% | 0.01 | 9 | \$9.1 | 24% | 2.0 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | Early | Lamp | 142 | 26% | 0.01 | 9 | \$9.1 | 94% | 1.7 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | New | Lamp | 108 | 26% | 0.00 | 9 | \$2.5 | 94% | 4.8 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | New | Lamp | 108 | 26% | 0.00 | 9 | \$2.5 | 94% | 4.8 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | New | Lamp | 112 | 28% | 0.00 | 9 | \$2.5 | 24% | 5.3 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | New | Lamp | 108 | 26% | 0.00 | 9 | \$2.5 | 94% | 4.8 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | ROB | Lamp | 142 | 26% | 0.01 | 9 | \$2.5 | 94% | 6.3 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | ROB | Lamp | 142 | 26% | 0.01 | 9 | \$2.5 | 94% | 6.3 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | ROB | Lamp | 147 | 28% | 0.01 | 9 | \$2.5 | 24% | 7.0 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Gov't | Lin. Fluor. Lighting | ROB | Lamp | 142 | 26% | 0.01 | 9 | \$2.5 | 94% | 6.3 |
| PPL | T8 Lamp (any length) Electronic Ballast | Standard T12 lamp (any length) | Gov't | Lin. Fluor. Lighting | Early | Lamp | 270 | 42% | 0.02 | 9 | \$15 | 94% | 3.3 |
| PPL | Time Clock Control | Lighting w/ No Controls | Gov't | Lin. Fluor. Lighting | Existing | building | 15,096 | 28% | 0.3 | 8 | \$1,034 | 14% | 1.4 |
| PPL | Time Clock Control | Lighting w/ No Controls | Gov't | Lin. Fluor. Lighting | New | building | 15,096 | 4.1% | 0.04 | 8 | \$1,034 | 0% | 0.2 |
| PPL | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | Early | motor | 3,503 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| PPL | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | Early | motor | 3,503 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| PPL | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | Early | motor | 3,503 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| PPL | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | Early | motor | 3,503 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| PPL | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | Early | motor | 3,503 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.2 |
| PPL | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | New | motor | 3,396 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| PPL | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | New | motor | 3,396 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| PPL | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | New | motor | 3,396 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| PPL | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | New | motor | 3,396 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| PPL | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | ROB | motor | 3,396 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| PPL | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | ROB | motor | 3,396 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| PPL | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | ROB | motor | 3,396 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| PPL | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | ROB | motor | 3,396 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| PPL | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | Early | motor | 5,164 | 3.1% | 0.02 | 15 | \$402 | 76% | 0.3 |
| PPL | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | Early | motor | 5,164 | 3.1% | 0.02 | 15 | \$402 | 76% | 0.3 |
| PPL | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | Early | motor | 5,164 | 3.1% | 0.02 | 15 | \$402 | 76% | 0.3 |
| PPL | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | Early | motor | 5,164 | 3.1% | 0.02 | 15 | \$402 | 76% | 0.3 |
| PPL | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | Early | motor | 5,164 | 3.1% | 0.02 | 15 | \$402 | 76% | 0.3 |
| PPL | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | New | motor | 5,035 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.3 |
| PPL | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | New | motor | 5,035 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.3 |
| PPL | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | New | motor | 5,035 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.3 |
| PPL | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | New | motor | 5,035 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|--|---------|---------|---------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | Early | motor | 24,514 | 2.9% | 0.09 | 15 | \$802 | 83% | 0.6 |
| PPL | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | Early | motor | 24,514 | 3.0% | 0.09 | 15 | \$802 | 83% | 0.6 |
| PPL | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | Early | motor | 24,514 | 3.0% | 0.1 | 15 | \$802 | 83% | 0.6 |
| PPL | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | Early | motor | 24,514 | 3.0% | 0.09 | 15 | \$802 | 83% | 0.6 |
| PPL | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | New | motor | 23,928 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.7 |
| PPL | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | New | motor | 23,928 | 0.6% | 0.02 | 15 | \$123 | 83% | 0.7 |
| PPL | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | New | motor | 23,928 | 0.6% | 0.02 | 15 | \$123 | 83% | 0.7 |
| PPL | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | ROB | motor | 23,928 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.7 |
| PPL | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | ROB | motor | 23,928 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.7 |
| PPL | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | ROB | motor | 23,928 | 0.6% | 0.02 | 15 | \$123 | 83% | 0.7 |
| PPL | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | ROB | motor | 23,928 | 0.6% | 0.02 | 15 | \$123 | 83% | 0.7 |
| PPL | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | Early | motor | 231,108 | 1.4% | 0.4 | 15 | \$3,955 | 61% | 0.5 |
| PPL | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | Early | motor | 231,108 | 1.4% | 0.4 | 15 | \$3,955 | 61% | 0.5 |
| PPL | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | Early | motor | 231,108 | 1.4% | 0.5 | 15 | \$3,955 | 61% | 0.5 |
| PPL | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | Early | motor | 231,108 | 1.4% | 0.4 | 15 | \$3,955 | 61% | 0.5 |
| PPL | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | New | motor | 229,204 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.4 |
| PPL | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | New | motor | 229,204 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.4 |
| PPL | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | New | motor | 229,204 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.4 |
| PPL | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | New | motor | 229,204 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.4 |
| PPL | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | ROB | motor | 229,204 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.4 |
| PPL | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | ROB | motor | 229,204 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.4 |
| PPL | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | ROB | motor | 229,204 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.4 |
| PPL | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Gov't | Motors | ROB | motor | 229,204 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.4 |
| PPL | ASD HVAC Fan | Std. HVAC Fan | Gov't | Motors | New | measure | 18,873 | 9.1% | 0.2 | 15 | \$55,530 | 85% | 0.0 |
| PPL | ASD HVAC Fan | Std. HVAC Fan | Gov't | Motors | ROB | measure | 18,873 | 9.1% | 0.2 | 15 | \$55,530 | 85% | 0.0 |
| PPL | CO sensors for parking garage exhaust fans | No CO Sensors | Gov't | Motors | New | building | 3,196 | 28% | 0.3 | 8 | \$276 | 4% | 1.5 |
| PPL | demand controlled ventilation | Absence of Demand Controlled Ventilation | Gov't | Motors | Early | measure | 18,873 | 5.9% | 0.1 | 10 | \$127,693 | 92% | 0.0 |
| PPL | demand controlled ventilation | Office building thermostat | Gov't | Motors | New | measure | 18,873 | 5.9% | 0.1 | 10 | \$95,339 | 92% | 0.0 |
| PPL | demand controlled ventilation | Office building thermostat | Gov't | Motors | ROB | measure | 18,873 | 5.9% | 0.1 | 10 | \$95,339 | 92% | 0.0 |
| PPL | Downsizing motor during retrofit | Larger hp standard motor | Gov't | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 21.4 |
| PPL | Downsizing motor during retrofit | Larger hp standard motor | Gov't | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 21.9 |
| PPL | Downsizing motor during retrofit | Larger hp standard motor | Gov't | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 22.4 |
| PPL | Downsizing motor during retrofit | Larger hp standard motor | Gov't | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 23.7 |
| PPL | Downsizing motor during retrofit | Larger hp standard motor | Gov't | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 23.3 |
| PPL | Downsizing motor during retrofit | Larger hp standard motor | Gov't | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 21.1 |
| PPL | Downsizing motor during retrofit | Larger hp standard motor | Gov't | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 21.6 |
| PPL | Downsizing motor during retrofit | Larger hp standard motor | Gov't | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 22.5 |
| PPL | Downsizing motor during retrofit | Larger hp standard motor | Gov't | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 23.4 |
| PPL | Downsizing motor during retrofit | Larger hp standard motor | Gov't | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 23.4 |
| PPL | Energy Efficient Laboratory Fume Hood | Std. Fume Hood | Gov't | Motors | New | measure | 22,500 | 1.1% | 0.03 | 15 | \$111 | 17% | 1.4 |
| PPL | Energy Efficient Laboratory Fume Hood | Std. Fume Hood | Gov't | Motors | ROB | measure | 22,500 | 1.1% | 0.03 | 15 | \$111 | 17% | 1.4 |
| PPL | Escalator Motor Controller | Constant power control | Gov't | Motors | New | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 45% | 6.0 |
| PPL | Escalator Motor Controller | Constant power control | Gov't | Motors | ROB | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 45% | 6.0 |
| PPL | Fan Motor - correct sizing | Incorrect Fan Motor Sizing | Gov't | Motors | ROB | measure | 18,873 | 2.9% | 0.06 | 15 | \$36,818 | 92% | 0.0 |
| PPL | Variable Speed Drive Control, 15HP | Existing Motors w/out VFD Drive | Gov't | Motors | Early | motor | 16,590 | 72% | 1.7 | 15 | \$791 | 86% | 10.1 |
| PPL | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VFD Drive | Gov't | Motors | New | motor | 16,219 | 72% | 1.7 | 15 | \$731 | 86% | 10.7 |
| PPL | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VFD Drive | Gov't | Motors | ROB | motor | 16,219 | 72% | 1.7 | 15 | \$731 | 86% | 10.7 |
| PPL | Variable Speed Drive Control, 40HP | Existing Motors w/out VSD Drive | Gov't | Motors | Early | motor | 124,871 | 71% | 13.0 | 15 | \$4,726 | 86% | 12.6 |
| PPL | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Gov't | Motors | New | motor | 123,411 | 72% | 13.0 | 15 | \$4,666 | 86% | 12.8 |
| PPL | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Gov't | Motors | ROB | motor | 123,411 | 72% | 13.0 | 15 | \$4,666 | 86% | 12.8 |
| PPL | Variable Speed Drive Control, 5HP | Existing Motors w/out VSD Drive | Gov't | Motors | Early | motor | 47,856 | 70% | 4.9 | 15 | \$2,303 | 86% | 9.8 |
| PPL | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VSD Drive | Gov't | Motors | New | motor | 46,827 | 72% | 4.9 | 15 | \$2,243 | 86% | 10.1 |
| PPL | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VSD Drive | Gov't | Motors | ROB | motor | 46,827 | 72% | 4.9 | 15 | \$2,243 | 86% | 10.1 |
| PPL | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Gov't | Motors | Early | motor | 16,851 | 6.7% | 0.1 | 15 | \$328 | 13% | 2.2 |
| PPL | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Gov't | Motors | New | motor | 16,851 | 6.7% | 0.1 | 15 | \$268 | 13% | 2.7 |
| PPL | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Gov't | Motors | ROB | motor | 16,851 | 6.7% | 0.1 | 15 | \$268 | 13% | 2.7 |
| PPL | VFD on Chilled Water Pump | Motor w/out VFD Drive | Gov't | Motors | Early | motor | 16,452 | 54% | 1.2 | 15 | \$2,903 | 86% | 1.9 |
| PPL | VFD on Chilled Water Pump | Motor w/out VFD Drive | Gov't | Motors | New | motor | 16,144 | 55% | 1.2 | 15 | \$2,843 | 86% | 2.0 |
| PPL | VFD on Chilled Water Pump | Motor w/out VFD Drive | Gov't | Motors | ROB | motor | 16,144 | 55% | 1.2 | 15 | \$2,843 | 86% | 2.0 |
| PPL | VFD on Condenser Water Pump | Motor w/out VFD Drive | Gov't | Motors | Early | motor | 16,379 | 32% | 0.7 | 15 | \$2,903 | 86% | 1.2 |
| PPL | VFD on Condenser Water Pump | Motor w/out VFD Drive | Gov't | Motors | New | motor | 16,072 | 33% | 0.7 | 15 | \$2,843 | 86% | 1.2 |
| PPL | VFD on Condenser Water Pump | Motor w/out VFD Drive | Gov't | Motors | ROB | motor | 16,072 | 33% | 0.7 | 15 | \$2,843 | 86% | 1.2 |
| PPL | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Gov't | Motors | Early | motor | 29,557 | 56% | 2.1 | 15 | \$2,903 | 86% | 3.6 |
| PPL | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Gov't | Motors | New | motor | 29,004 | 57% | 2.1 | 15 | \$2,843 | 86% | 3.7 |
| PPL | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Gov't | Motors | ROB | motor | 29,004 | 57% | 2.1 | 15 | \$2,843 | 86% | 3.7 |
| PPL | VFD on HVAC Fan | Motor w/out VFD | Gov't | Motors | Early | motor | 16,452 | 70% | 1.7 | 15 | \$2,903 | 86% | 2.7 |
| PPL | VFD on HVAC Fan | Motor w/out VFD | Gov't | Motors | New | motor | 16,144 | 72% | 1.7 | 15 | \$2,843 | 86% | 2.7 |
| PPL | VFD on HVAC Fan | Motor w/out VFD | Gov't | Motors | ROB | motor | 16,144 | 72% | 1.7 | 15 | \$2,843 | 86% | 2.7 |
| PPL | Elevators | Std. Eff Elevator | Gov't | Other | ROB | measure | 89,016 | 1.5% | 0.05 | 15 | \$116 | 63% | 6.6 |
| PPL | Variable Speed Drives on Process Equipment | Constant speed control | Gov't | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 10.4 |
| PPL | Variable Speed Drives on Process Equipment | Constant speed control | Gov't | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 10.4 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|--|---------|---------------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Auto Off Time Switch | Lighting w/ No Controls | Gov't | Other Int. Lighting | Existing | building | 4,712 | 24% | 0.2 | 8 | \$1,034 | 13% | 0.5 |
| PPL | Auto Off Time Switch | Lighting w/ No Controls | Gov't | Other Int. Lighting | New | building | 4,712 | 7.0% | 0.07 | 8 | \$1,034 | 0% | 0.1 |
| PPL | Central Lighting Control System | Lighting w/ No Controls | Gov't | Other Int. Lighting | Existing | building | 4,712 | 38% | 0.4 | 8 | \$1,034 | 13% | 0.7 |
| PPL | Central Lighting Control System | Lighting w/ No Controls | Gov't | Other Int. Lighting | New | building | 4,712 | 14% | 0.1 | 8 | \$1,034 | 13% | 0.3 |
| PPL | Cold Cathode Screw-In Bulb | 40W Incandescent Bulb | Gov't | Other Int. Lighting | Early | lamp | 87 | 87% | 0.01 | 15 | \$33 | 14% | 1.6 |
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Gov't | Other Int. Lighting | Early | lamp | 62 | 81% | 0.01 | 15 | \$33 | 11% | 1.1 |
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Gov't | Other Int. Lighting | New | lamp | 47 | 81% | 0.01 | 15 | \$24 | 14% | 1.1 |
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Gov't | Other Int. Lighting | New | lamp | 47 | 81% | 0.01 | 15 | \$25 | 14% | 1.1 |
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Gov't | Other Int. Lighting | ROB | lamp | 62 | 81% | 0.01 | 15 | \$24 | 14% | 1.5 |
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Gov't | Other Int. Lighting | ROB | lamp | 62 | 81% | 0.01 | 15 | \$25 | 14% | 1.4 |
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Gov't | Other Int. Lighting | ROB | lamp | 62 | 81% | 0.01 | 15 | \$24 | 11% | 1.4 |
| PPL | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Gov't | Other Int. Lighting | Early | lamp | 87 | 75% | 0.01 | 7 | \$73 | 39% | 0.3 |
| PPL | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Gov't | Other Int. Lighting | New | lamp | 95 | 65% | 0.01 | 13 | \$29 | 46% | 1.3 |
| PPL | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Gov't | Other Int. Lighting | New | lamp | 47 | 65% | 0.01 | 7 | \$29 | 46% | 0.4 |
| PPL | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Gov't | Other Int. Lighting | ROB | lamp | 125 | 65% | 0.01 | 13 | \$29 | 39% | 1.7 |
| PPL | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Gov't | Other Int. Lighting | ROB | lamp | 62 | 65% | 0.01 | 7 | \$29 | 39% | 0.5 |
| PPL | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Gov't | Other Int. Lighting | Early | lamp | 87 | 75% | 0.01 | 7 | \$3.6 | 24% | 6.5 |
| PPL | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Gov't | Other Int. Lighting | New | lamp | 47 | 65% | 0.01 | 7 | \$1.8 | 24% | 6.3 |
| PPL | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Gov't | Other Int. Lighting | ROB | lamp | 62 | 65% | 0.01 | 7 | \$1.8 | 24% | 8.3 |
| PPL | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Gov't | Other Int. Lighting | ROB | lamp | 62 | 65% | 0.01 | 7 | \$1.8 | 24% | 8.3 |
| PPL | Exit Sign Retrofit: CFL replacing Incandescent | One 23W Single Sided Incandescent Exit Sign | Gov't | Other Int. Lighting | Early | exit sign | 139 | 42% | 0.01 | 15 | \$78 | 22% | 0.5 |
| PPL | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Gov't | Other Int. Lighting | New | building | 4,712 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.0 |
| PPL | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Gov't | Other Int. Lighting | New | building | 4,712 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |
| PPL | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Gov't | Other Int. Lighting | New | building | 4,712 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| PPL | Indoor Daylight Sensors | Lighting w/ No Controls | Gov't | Other Int. Lighting | Existing | building | 4,712 | 28% | 0.3 | 8 | \$5,088 | 13% | 0.1 |
| PPL | Indoor Daylight Sensors | Lighting w/ No Controls | Gov't | Other Int. Lighting | New | building | 4,712 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| PPL | LED Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Gov't | Other Int. Lighting | Early | sign | 153 | 87% | 0.02 | 15 | \$78 | 16% | 1.1 |
| PPL | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Gov't | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 2.0 |
| PPL | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Gov't | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 2.0 |
| PPL | LED Task Lighting/Screw-In | 1 15W CFL bulb | Gov't | Other Int. Lighting | Early | lamp | 22 | 33% | 0.00 | 15 | \$9.6 | 24% | 0.3 |
| PPL | LED Task Lighting/Screw-In | 1 60W Incandescent Bulb | Gov't | Other Int. Lighting | Early | lamp | 89 | 83% | 0.01 | 15 | \$9.6 | 24% | 2.6 |
| PPL | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Gov't | Other Int. Lighting | New | lamp | 49 | 77% | 0.01 | 15 | \$7.9 | 24% | 1.6 |
| PPL | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Gov't | Other Int. Lighting | New | lamp | 49 | 77% | 0.01 | 15 | \$7.9 | 24% | 1.6 |
| PPL | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Gov't | Other Int. Lighting | ROB | lamp | 64 | 77% | 0.01 | 15 | \$7.9 | 24% | 2.1 |
| PPL | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Gov't | Other Int. Lighting | ROB | lamp | 64 | 77% | 0.01 | 15 | \$7.9 | 24% | 2.1 |
| PPL | Occupancy Sensor | Lighting w/ No Controls | Gov't | Other Int. Lighting | Existing | building | 4,712 | 24% | 0.2 | 8 | \$1,558 | 11% | 0.3 |
| PPL | Occupancy Sensor | Lighting w/ No Controls | Gov't | Other Int. Lighting | New | building | 4,712 | 7.0% | 0.07 | 8 | \$1,558 | 0% | 0.1 |
| PPL | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Gov't | Other Int. Lighting | Existing | building | 4,712 | 28% | 0.3 | 8 | \$5,088 | 11% | 0.1 |
| PPL | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Gov't | Other Int. Lighting | New | building | 4,712 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| PPL | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Gov't | Other Int. Lighting | Early | exit sign | 139 | 100% | 0.02 | 15 | \$203 | 26% | 0.5 |
| PPL | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Gov't | Other Int. Lighting | New | exit sign | 80 | 100% | 0.01 | 15 | \$148 | 31% | 0.4 |
| PPL | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Gov't | Other Int. Lighting | ROB | exit sign | 80 | 100% | 0.01 | 15 | \$148 | 26% | 0.4 |
| PPL | Time Clock Control | Lighting w/ No Controls | Gov't | Other Int. Lighting | Existing | building | 4,712 | 28% | 0.3 | 8 | \$1,034 | 13% | 0.5 |
| PPL | Time Clock Control | Lighting w/ No Controls | Gov't | Other Int. Lighting | New | building | 4,712 | 4.1% | 0.04 | 8 | \$1,034 | 0% | 0.1 |
| PPL | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Gov't | Plug Load | Existing | building | 2,913 | 46% | 0.5 | 5 | \$189 | 4% | 2.2 |
| PPL | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Gov't | Plug Load | New | building | 1,422 | 46% | 0.5 | 5 | \$189 | 4% | 1.5 |
| PPL | Data Center - Server/Storage Consolidation | No Consolidation | Gov't | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PPL | Data Center - Server/Storage Consolidation | No Consolidation | Gov't | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PPL | Data Center - Server/Storage Virtualization | No Virtualization | Gov't | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PPL | Data Center - Server/Storage Virtualization | No Virtualization | Gov't | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PPL | Energy Star - Scanners | Std Scanner | Gov't | Plug Load | New | measure | 68 | 3.8% | 0.04 | 4 | \$130 | 7% | 0.1 |
| PPL | Energy Star - Scanners | Std Scanner | Gov't | Plug Load | ROB | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| PPL | Energy Star Battery Charging System (for small cordless products) | Std. Battery Charging System | Gov't | Plug Load | ROB | measure | 593 | 2.3% | 0.5 | 5 | \$65 | 4% | 2.4 |
| PPL | Energy Star Dishwasher | Existing Dishwasher units | Gov't | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,580 | 1% | 1.0 |
| PPL | Energy Star Dishwasher | Standard Dishwasher unit | Gov't | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 1% | 3.3 |
| PPL | Energy Star Dishwasher | Standard Dishwasher unit | Gov't | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 1% | 3.3 |
| PPL | Energy Star External Power Adapter | Std. Power Adapter | Gov't | Plug Load | New | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| PPL | Energy Star External Power Adapter | Std. Power Adapter | Gov't | Plug Load | ROB | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| PPL | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Gov't | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 17% | 0.1 |
| PPL | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Gov't | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 1.6 |
| PPL | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Gov't | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 1.6 |
| PPL | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Gov't | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 9% | 0.8 |
| PPL | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Gov't | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.6 |
| PPL | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Gov't | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.6 |
| PPL | ENERGY STAR® Copiers | 10% Less Efficient Copier | Gov't | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 18% | 0.0 |
| PPL | ENERGY STAR® Copiers | One Conventional Copier | Gov't | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| PPL | ENERGY STAR® Copiers | One Conventional Copier | Gov't | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| PPL | ENERGY STAR® desktop | Standard computer | Gov't | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 69% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|---|---------|---------------|----------|-------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | ENERGY STAR® desktop | Standard computer | Gov't | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.2 |
| PPL | ENERGY STAR® desktop | Standard computer | Gov't | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.2 |
| PPL | ENERGY STAR® Fax | 10% Less Efficient Fax | Gov't | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 15% | 0.0 |
| PPL | ENERGY STAR® Fax | One Conventional Fax | Gov't | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| PPL | ENERGY STAR® Fax | One Conventional Fax | Gov't | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| PPL | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Gov't | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 70% | 0.0 |
| PPL | ENERGY STAR® Monitors | One Conventional Monitor | Gov't | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| PPL | ENERGY STAR® Monitors | One Conventional Monitor | Gov't | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| PPL | ENERGY STAR® Printers | 10% Less Efficient Printer | Gov't | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 44% | 0.0 |
| PPL | ENERGY STAR® Printers | One Conventional Printer | Gov't | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| PPL | ENERGY STAR® Printers | One Conventional Printer | Gov't | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| PPL | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Gov't | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 43% | 0.1 |
| PPL | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Gov't | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.7 |
| PPL | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Gov't | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.8 |
| PPL | ENERGY STAR® Televisions | 10% Less Efficient Television | Gov't | Plug Load | Early | Unit | 111 | 38% | 0.01 | 6 | \$672 | 40% | 0.0 |
| PPL | ENERGY STAR® Televisions | One Conventional Television | Gov't | Plug Load | New | Unit | 101 | 32% | 0.01 | 6 | \$206 | 40% | 0.0 |
| PPL | ENERGY STAR® Televisions | One Conventional Television | Gov't | Plug Load | ROB | Unit | 101 | 32% | 0.01 | 6 | \$206 | 40% | 0.0 |
| PPL | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Gov't | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 24% | 0.3 |
| PPL | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Gov't | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.6 |
| PPL | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Gov't | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.6 |
| PPL | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Gov't | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.2 |
| PPL | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Gov't | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.2 |
| PPL | Network PC Power Management | No PC Power Management | Gov't | Plug Load | Existing | computer | 425 | 33% | 0.01 | 5 | \$30 | 38% | 1.0 |
| PPL | Network PC Power Management | No PC Power Management | Gov't | Plug Load | New | computer | 425 | 33% | 0.01 | 5 | \$30 | 38% | 1.0 |
| PPL | Smart Strip Plug Outlets | Standard plug strip/outlet | Gov't | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.4 |
| PPL | Smart Strip Plug Outlets | Standard plug strip/outlet | Gov't | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.4 |
| PPL | Smart Strip Plug Outlets | Standard plug strip/outlet | Gov't | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PPL | Smart Strip Plug Outlets | Standard plug strip/outlet | Gov't | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PPL | Smart Strip Plug Outlets | Standard plug strip/outlet | Gov't | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PPL | Smart Strip Plug Outlets | Standard plug strip/outlet | Gov't | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PPL | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Gov't | Plug Load | Existing | building | 2,913 | 46% | 0.5 | 5 | \$180 | 3% | 2.3 |
| PPL | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Gov't | Plug Load | New | building | 1,422 | 46% | 0.5 | 5 | \$180 | 3% | 1.5 |
| PPL | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Gov't | Refrigeration | Existing | building | 715 | 1.1% | 0.01 | 12 | \$70 | 11% | 0.1 |
| PPL | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Gov't | Refrigeration | New | building | 715 | 1.1% | 0.01 | 12 | \$70 | 11% | 0.1 |
| PPL | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Gov't | Refrigeration | Existing | building | 715 | 7.0% | 0.07 | 12 | \$70 | 11% | 0.9 |
| PPL | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Gov't | Refrigeration | New | building | 715 | 7.0% | 0.07 | 12 | \$70 | 11% | 0.9 |
| PPL | Auto Closer on Refrigerator Door | Door w/out Autocloser | Gov't | Refrigeration | Existing | building | 3,574 | 27% | 0.3 | 8 | \$747 | 40% | 0.6 |
| PPL | Auto Closer on Refrigerator Door | Door w/out Autocloser | Gov't | Refrigeration | Existing | building | 5,368 | 15% | 0.2 | 8 | \$763 | 40% | 0.4 |
| PPL | Auto Closer on Refrigerator Door | Door w/out Autocloser | Gov't | Refrigeration | New | building | 3,574 | 27% | 0.3 | 8 | \$747 | 40% | 0.6 |
| PPL | Auto Closer on Refrigerator Door | Door w/out Autocloser | Gov't | Refrigeration | New | building | 5,368 | 15% | 0.2 | 8 | \$763 | 40% | 0.4 |
| PPL | Demand Hot Gas Defrost | Base Refrigeration System | Gov't | Refrigeration | Existing | measure | 715 | 3.0% | 0.03 | 10 | \$1,314 | 0% | 0.0 |
| PPL | Demand Hot Gas Defrost | Base Refrigeration System | Gov't | Refrigeration | New | measure | 715 | 3.0% | 0.03 | 10 | \$1,314 | 0% | 0.0 |
| PPL | Door Gasket- Freezer | Door w/out Gasket | Gov't | Refrigeration | Existing | building | 3,574 | 3.7% | 0.1 | 4 | \$19 | 29% | 3.1 |
| PPL | Door Gasket- Freezer | Door w/out Gasket | Gov't | Refrigeration | New | building | 3,574 | 3.7% | 0.1 | 4 | \$0 | 29% | 0.0 |
| PPL | Door Gasket- Refrigerator | Door w/out Gasket | Gov't | Refrigeration | Existing | building | 5,368 | 4.8% | 0.05 | 4 | \$105 | 45% | 0.5 |
| PPL | Door Gasket- Refrigerator | Door w/out Gasket | Gov't | Refrigeration | New | building | 5,368 | 4.8% | 0.05 | 4 | \$105 | 45% | 0.5 |
| PPL | eCube | Refrigeration unit w/out eCube | Gov't | Refrigeration | Existing | building | 5,368 | 15% | 0.2 | 15 | \$504 | 57% | 1.1 |
| PPL | eCube | Refrigeration unit w/out eCube | Gov't | Refrigeration | New | building | 5,368 | 15% | 0.2 | 15 | \$504 | 57% | 1.1 |
| PPL | Efficient compressor motor | Base Refrigeration System - Grocery | Gov't | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| PPL | Efficient compressor motor | Base Refrigeration System - Grocery | Gov't | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| PPL | Efficient compressor motor | Base Refrigeration System - Grocery | Gov't | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| PPL | Efficient compressor motor | Base Refrigeration System - Grocery | Gov't | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| PPL | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Gov't | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.6 |
| PPL | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Gov't | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| PPL | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Gov't | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| PPL | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Gov't | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.3 |
| PPL | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Gov't | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.7 |
| PPL | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Gov't | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.7 |
| PPL | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Gov't | Refrigeration | Existing | building | 5,368 | 1.7% | 0.02 | 10 | \$369 | 77% | 0.1 |
| PPL | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Gov't | Refrigeration | New | building | 5,368 | 1.7% | 0.02 | 10 | \$369 | 77% | 0.1 |
| PPL | Floating head pressure controller | System w/out FHPC | Gov't | Refrigeration | Existing | building | 3,574 | 2.5% | 0.03 | 15 | \$8,682 | 41% | 0.0 |
| PPL | Floating head pressure controller | System w/out FHPC | Gov't | Refrigeration | Existing | building | 715 | 1.1% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| PPL | Floating head pressure controller | System w/out FHPC | Gov't | Refrigeration | Existing | building | 5,368 | 1.0% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| PPL | Floating head pressure controller | System w/out FHPC | Gov't | Refrigeration | New | building | 3,574 | 2.5% | 0.03 | 15 | \$8,682 | 41% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|--|---------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Floating head pressure controller | System w/out FHPC | Gov't | Refrigeration | New | building | 715 | 1.1% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| PPL | Floating head pressure controller | System w/out FHPC | Gov't | Refrigeration | New | building | 5,368 | 1.0% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| PPL | High Efficiency Commercial Freezer | Std. Commercial Freezer | Gov't | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 86% | 0.3 |
| PPL | High Efficiency Commercial Freezer | Std. Commercial Freezer | Gov't | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 3.9 |
| PPL | High Efficiency Commercial Freezer | Std. Commercial Freezer | Gov't | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 3.9 |
| PPL | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Gov't | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 2% | 0.1 |
| PPL | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Gov't | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.9 |
| PPL | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Gov't | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.9 |
| PPL | High Efficiency Ice Maker | Existing Standard Efficiency Ice Maker in Pennsylvania | Gov't | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 73% | 0.2 |
| PPL | High Efficiency Ice Maker | Standard code minimum Ice Maker | Gov't | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| PPL | High Efficiency Ice Maker | Standard code minimum Ice Maker | Gov't | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| PPL | High Efficiency Ice Making Head | Standard Ice Making Head | Gov't | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.7 |
| PPL | High Efficiency Ice Making Head | Standard Ice Making Head | Gov't | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.7 |
| PPL | High R-Value Glass Doors | Base Refrigeration System - Grocery | Gov't | Refrigeration | Existing | building | 715 | 0.7% | 0.01 | 10 | \$15 | 0% | 0.4 |
| PPL | High R-Value Glass Doors | Base Refrigeration System - Grocery | Gov't | Refrigeration | New | building | 715 | 0.7% | 0.01 | 10 | \$15 | 0% | 0.4 |
| PPL | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Gov't | Refrigeration | Early | Fixture | 373 | 56% | 0.01 | 8 | \$448 | 47% | 0.1 |
| PPL | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Gov't | Refrigeration | New | Fixture | 291 | 44% | 0.00 | 8 | \$139 | 47% | 0.3 |
| PPL | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Gov't | Refrigeration | ROB | Fixture | 291 | 44% | 0.00 | 8 | \$139 | 47% | 0.3 |
| PPL | No-heat glass doors | Standard low-temp reach-in | Gov't | Refrigeration | Existing | building | 715 | 20% | 0.2 | 10 | \$1,349 | 8% | 0.1 |
| PPL | No-heat glass doors | Standard low-temp reach-in | Gov't | Refrigeration | New | building | 715 | 20% | 0.2 | 10 | \$1,349 | 8% | 0.1 |
| PPL | Quick acting freezer doors | Std. Freezer Doors | Gov't | Refrigeration | Existing | building | 3,574 | 13% | 0.1 | 10 | \$794 | 56% | 0.3 |
| PPL | Quick acting freezer doors | Std. Freezer Doors | Gov't | Refrigeration | New | building | 3,574 | 13% | 0.1 | 10 | \$794 | 56% | 0.3 |
| PPL | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Gov't | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 30% | 0.4 |
| PPL | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Gov't | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.6 |
| PPL | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Gov't | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.6 |
| PPL | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 30% | 1.6 |
| PPL | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 2.8 |
| PPL | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 2.8 |
| PPL | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 30% | 1.6 |
| PPL | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 3.8 |
| PPL | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 3.8 |
| PPL | Refrigeration Commissioning | Non-commissioned refrigeration system | Gov't | Refrigeration | Existing | building | 10,007 | 9.5% | 0.10 | 3 | \$3,613 | 85% | 0.0 |
| PPL | Refrigeration Commissioning | Non-commissioned refrigeration system | Gov't | Refrigeration | New | building | 10,007 | 9.5% | 0.10 | 3 | \$3,613 | 85% | 0.0 |
| PPL | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Gov't | Refrigeration | Existing | building | 3,574 | 35% | 0.3 | 4 | \$93 | 22% | 3.1 |
| PPL | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Gov't | Refrigeration | Existing | building | 5,368 | 6.8% | 0.07 | 4 | \$128 | 22% | 0.6 |
| PPL | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Gov't | Refrigeration | New | building | 3,574 | 35% | 0.3 | 4 | \$93 | 22% | 3.1 |
| PPL | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Gov't | Refrigeration | New | building | 5,368 | 6.8% | 0.07 | 4 | \$128 | 22% | 0.6 |
| PPL | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Gov't | Refrigeration | Existing | building | 3,574 | 5.9% | 0.06 | 11 | \$119 | 79% | 1.0 |
| PPL | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Gov't | Refrigeration | New | building | 3,574 | 5.9% | 0.06 | 11 | \$119 | 79% | 1.0 |
| PPL | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Gov't | Refrigeration | Existing | building | 5,368 | 4.5% | 0.05 | 11 | \$119 | 79% | 1.0 |
| PPL | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Gov't | Refrigeration | New | building | 5,368 | 4.5% | 0.05 | 11 | \$119 | 79% | 1.0 |
| PPL | Vertical Night Covers | Display cases w/out night covers-High Temperature | Gov't | Refrigeration | Existing | building | 715 | 0.6% | 0.01 | 5 | \$52 | 9% | 0.1 |
| PPL | Vertical Night Covers | Display cases w/out night covers-High Temperature | Gov't | Refrigeration | New | building | 715 | 0.6% | 0.01 | 5 | \$52 | 9% | 0.1 |
| PPL | VSD Controlled Compressor | Compressor w/out VSD | Gov't | Refrigeration | Early | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |
| PPL | VSD Controlled Compressor | Compressor w/out VSD | Gov't | Refrigeration | New | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |
| PPL | VSD Controlled Compressor | Compressor w/out VSD | Gov't | Refrigeration | ROB | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |
| PPL | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Gov't | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$269 | 24% | 0.9 |
| PPL | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Gov't | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$269 | 24% | 0.8 |
| PPL | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Gov't | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 24% | 3.0 |
| PPL | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Gov't | Refrigeration | New | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 24% | 2.9 |
| PPL | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Gov't | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 24% | 3.0 |
| PPL | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Gov't | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 24% | 2.9 |
| PPL | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 24% | 2.3 |
| PPL | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 24% | 2.2 |
| PPL | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$151 | 24% | 4.1 |
| PPL | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$151 | 24% | 3.9 |
| PPL | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$151 | 24% | 4.1 |
| PPL | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Gov't | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$151 | 24% | 3.9 |
| PPL | Adding reflective roof treatment | Std color roof | Gov't | Space Heating | Existing | building | 9,997 | 7.1% | 0.07 | 6 | \$12,711 | 82% | 0.0 |
| PPL | Adding reflective roof treatment | Std color roof | Gov't | Space Heating | New | building | 9,997 | 7.1% | 0.07 | 6 | \$12,711 | 82% | 0.0 |
| PPL | Adding window shade film | No shade film | Gov't | Space Heating | Existing | building | 9,997 | 1.3% | 0.4 | 10 | \$122 | 13% | 2.0 |
| PPL | Adding window shade film | No shade film | Gov't | Space Heating | New | building | 9,997 | 1.3% | 0.4 | 10 | \$122 | 13% | 2.0 |
| PPL | Adding window shade screen | No shade screen | Gov't | Space Heating | Existing | building | 9,997 | 1.1% | 0.01 | 10 | \$47 | 13% | 1.0 |
| PPL | Adding window shade screen | No shade screen | Gov't | Space Heating | New | building | 9,997 | 1.1% | 0.01 | 10 | \$47 | 13% | 1.0 |
| PPL | Automated control system | Manual Controls | Gov't | Space Heating | Existing | building | 9,997 | 17% | 0.2 | 15 | \$10,944 | 51% | 0.1 |
| PPL | Automated control system | Manual Controls | Gov't | Space Heating | New | building | 9,997 | 17% | 0.2 | 15 | \$10,944 | 94% | 0.1 |
| PPL | Ceiling Insulations (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Gov't | Space Heating | Existing | building | 9,997 | 3.4% | 0.03 | 15 | \$17,130 | 71% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|--|---------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Gov't | Space Heating | New | building | 9,997 | 1.1% | 0.01 | 15 | \$16,283 | 94% | 0.0 |
| PPL | Duct Insulation, Add R8 | No Insulation | Gov't | Space Heating | Existing | building | 9,997 | 1.4% | 0.04 | 15 | \$79 | 20% | 1.3 |
| PPL | Duct Insulation, Add R8 | No Insulation | Gov't | Space Heating | New | building | 9,997 | 1.4% | 0.04 | 15 | \$79 | 10% | 1.3 |
| PPL | Efficient Unit Heating System | Existing Unit Heaters in PA | Gov't | Space Heating | Early | heater | 38,902 | 23% | 0.07 | 15 | \$3,289 | 83% | 1.5 |
| PPL | Efficient Unit Heating System | Std. Unit Heater | Gov't | Space Heating | New | heater | 34,525 | 13% | 0.03 | 15 | \$1,985 | 83% | 1.3 |
| PPL | Efficient Unit Heating System | Std. Unit Heater | Gov't | Space Heating | ROB | heater | 34,525 | 13% | 0.03 | 15 | \$1,985 | 83% | 1.3 |
| PPL | Facility Commissioning | No Facility Commissioning | Gov't | Space Heating | New | building | 9,997 | 16% | 0.2 | 10 | \$142,780 | 89% | 0.0 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Gov't | Space Heating | Existing | building | 9,997 | 7.1% | 0.07 | 15 | \$44,345 | 25% | 0.0 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Gov't | Space Heating | New | building | 9,997 | 7.1% | 0.07 | 15 | \$44,345 | 35% | 0.0 |
| PPL | Hi Eff HVAC System Design | No HVAC Design | Gov't | Space Heating | New | building | 9,997 | 7.4% | 0.07 | 10 | \$1,051,205 | 51% | 0.0 |
| PPL | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Gov't | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$77 | 32% | 1.0 |
| PPL | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Gov't | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$77 | 32% | 1.0 |
| PPL | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Gov't | Space Heating | Existing | building | 9,997 | 1.1% | 0.01 | 10 | \$7,735 | 81% | 0.0 |
| PPL | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Gov't | Space Heating | New | building | 9,997 | 1.1% | 0.01 | 10 | \$7,735 | 81% | 0.0 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Gov't | Space Heating | Existing | building | 9,997 | 3.6% | 0.04 | 11 | \$286 | 49% | 0.6 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Gov't | Space Heating | New | building | 9,997 | 3.1% | 0.03 | 11 | \$146 | 49% | 1.0 |
| PPL | Re-Commissioning (Existing Construction) | No Re-Commissioning | Gov't | Space Heating | Existing | building | 9,997 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |
| PPL | VFD on Cooling Tower Fan | Motor w/out VFD | Gov't | Space Heating | Early | motor | 16,452 | 70% | 0.09 | 15 | \$2,843 | 88% | 2.2 |
| PPL | VFD on Cooling Tower Fan | Motor w/out VFD | Gov't | Space Heating | New | motor | 16,144 | 72% | 0.09 | 15 | \$2,843 | 88% | 2.2 |
| PPL | VFD on Cooling Tower Fan | Motor w/out VFD | Gov't | Space Heating | ROB | motor | 16,144 | 72% | 0.09 | 15 | \$2,843 | 88% | 2.2 |
| PPL | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Gov't | Space Heating | Existing | building | 9,997 | 6.0% | 0.06 | 15 | \$3,285 | 26% | 0.1 |
| PPL | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Gov't | Space Heating | New | building | 9,997 | 0.2% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| PPL | Green LED Traffic Light | Green Incandescent Traffic Light | Gov't | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 0% | 1.2 |
| PPL | Green LED Traffic Light | Green Incandescent Traffic Light | Gov't | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| PPL | Green LED Traffic Light | Green Incandescent Traffic Light | Gov't | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| PPL | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Gov't | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 0% | 3.0 |
| PPL | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Gov't | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| PPL | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Gov't | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| PPL | Induction Street Lighting | One 100W HPS Street Light Fixture | Gov't | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 0% | 0.3 |
| PPL | Induction Street Lighting | One 100W HPS Street Light Fixture | Gov't | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.7 |
| PPL | Induction Street Lighting | One 100W HPS Street Light Fixture | Gov't | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.7 |
| PPL | LED Street Lighting | One 100W HPS Street Light | Gov't | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 0% | 0.2 |
| PPL | LED Street Lighting | One 100W HPS Street Light | Gov't | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| PPL | LED Street Lighting | One 100W HPS Street Light | Gov't | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| PPL | Red LED Traffic Light | One Red Incandescent Traffic Light | Gov't | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 0% | 1.6 |
| PPL | Red LED Traffic Light | One Red Incandescent Traffic Light | Gov't | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| PPL | Red LED Traffic Light | One Red Incandescent Traffic Light | Gov't | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| PPL | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Gov't | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 0% | 0.1 |
| PPL | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Gov't | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| PPL | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Gov't | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| PPL | Demand controlled Circulating Systems | Constant circulation system | Gov't | Water Heating | Existing | building | 8,381 | 20% | 0.2 | 15 | \$1,521 | 59% | 0.7 |
| PPL | Demand controlled Circulating Systems | Constant circulation system | Gov't | Water Heating | New | building | 8,381 | 20% | 0.2 | 15 | \$1,521 | 59% | 0.7 |
| PPL | Drainwater Heat Recovery Water Heater | No heat recovery | Gov't | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.9 |
| PPL | Drainwater Heat Recovery Water Heater | No heat recovery | Gov't | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.9 |
| PPL | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Gov't | Water Heating | Existing | building | 8,381 | 5.9% | 0.06 | 12 | \$42 | 85% | 6.4 |
| PPL | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Gov't | Water Heating | New | building | 8,381 | 5.9% | 0.06 | 12 | \$12 | 85% | 22.2 |
| PPL | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Gov't | Water Heating | Early | water heater | 10,645 | 66% | 1.2 | 10 | \$2,045 | 68% | 1.7 |
| PPL | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Gov't | Water Heating | Early | water heater | 10,645 | 66% | 1.2 | 10 | \$2,045 | 68% | 1.7 |
| PPL | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Gov't | Water Heating | New | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 2.9 |
| PPL | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Gov't | Water Heating | New | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 2.9 |
| PPL | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Gov't | Water Heating | ROB | water heater | 10,350 | 65% | 1.2 | 10 | \$1,187 | 68% | 2.8 |
| PPL | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Gov't | Water Heating | ROB | water heater | 10,350 | 65% | 1.2 | 10 | \$1,187 | 68% | 2.8 |
| PPL | Heat Recovery Unit | Base Water Heating | Gov't | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.6 |
| PPL | Heat Recovery Unit | Base Water Heating | Gov't | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.6 |
| PPL | Heat Trap | No Heat Trap | Gov't | Water Heating | Existing | building | 8,381 | 22% | 0.2 | 11 | \$57 | 50% | 16.3 |
| PPL | Heat Trap | No Heat Trap | Gov't | Water Heating | New | building | 8,381 | 22% | 0.2 | 11 | \$8.5 | 50% | 109.2 |
| PPL | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Gov't | Water Heating | Early | water heater | 10,645 | 5.9% | 0.1 | 15 | \$865 | 79% | 0.5 |
| PPL | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Gov't | Water Heating | Early | water heater | 10,645 | 5.9% | 0.1 | 15 | \$865 | 79% | 0.5 |
| PPL | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Gov't | Water Heating | New | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.8 |
| PPL | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Gov't | Water Heating | New | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.8 |
| PPL | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Gov't | Water Heating | ROB | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.8 |
| PPL | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Gov't | Water Heating | ROB | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.8 |
| PPL | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Gov't | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$646 | 81% | 28.2 |
| PPL | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Gov't | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 20.4 |
| PPL | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Gov't | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 20.4 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|--|---------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Gov't | Water Heating | Existing | building | 8,381 | 0.4% | 0.00 | 13 | \$4.9 | 68% | 4.1 |
| PPL | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Gov't | Water Heating | New | building | 8,381 | 0.4% | 0.00 | 13 | \$4.9 | 0% | 4.1 |
| PPL | Hot Water Circulation Pump Time-Clock | Constant circulation system | Gov't | Water Heating | Existing | building | 8,381 | 5.3% | 0.05 | 10 | \$34 | 72% | 6.0 |
| PPL | Hot Water Circulation Pump Time-Clock | Constant circulation system | Gov't | Water Heating | New | building | 8,381 | 5.3% | 0.05 | 10 | \$34 | 72% | 6.0 |
| PPL | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Gov't | Water Heating | Existing | building | 8,381 | 0.9% | 0.01 | 7 | \$22 | 78% | 1.2 |
| PPL | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Gov't | Water Heating | New | building | 8,381 | 0.8% | 0.01 | 7 | \$0.5 | 78% | 45.4 |
| PPL | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Gov't | Water Heating | Existing | building | 8,381 | 2.3% | 0.02 | 5 | \$300 | 20% | 0.2 |
| PPL | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Gov't | Water Heating | New | building | 8,381 | 1.5% | 0.02 | 5 | \$194 | 20% | 0.2 |
| PPL | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Gov't | Water Heating | Existing | building | 8,381 | 6.5% | 0.07 | 9 | \$25 | 2% | 9.1 |
| PPL | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Gov't | Water Heating | New | building | 8,381 | 6.5% | 0.07 | 9 | \$6.0 | 2% | 37.7 |
| PPL | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Gov't | Water Heating | Early | water heater | 10,645 | 52% | 0.4 | 15 | \$7,080 | 32% | 0.5 |
| PPL | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Gov't | Water Heating | New | water heater | 10,350 | 51% | 0.4 | 15 | \$6,222 | 32% | 0.5 |
| PPL | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Gov't | Water Heating | ROB | water heater | 10,350 | 51% | 0.4 | 15 | \$6,222 | 32% | 0.5 |
| PPL | Ultrasonic Faucet Control | Manual Faucet Control | Gov't | Water Heating | Existing | building | 8,381 | 3.0% | 0.03 | 10 | \$1,449 | 77% | 0.1 |
| PPL | Ultrasonic Faucet Control | Manual Faucet Control | Gov't | Water Heating | New | building | 8,381 | 3.1% | 0.03 | 10 | \$1,449 | 77% | 0.1 |
| PPL | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Gov't | Water Heating | Existing | building | 8,381 | 2.2% | 0.02 | 4 | \$28 | 83% | 1.4 |
| PPL | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Gov't | Water Heating | New | building | 8,381 | 2.3% | 0.02 | 4 | \$28 | 83% | 1.5 |
| PPL | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Grocery | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.1 |
| PPL | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Grocery | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.1 |
| PPL | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Grocery | Cooking | Early | steamer | 51 | 46% | 0.00 | 12 | \$5,103 | 81% | 0.0 |
| PPL | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Grocery | Cooking | New | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| PPL | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Grocery | Cooking | ROB | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| PPL | Electric combination oven (Energy Star) | Standard Oven | Grocery | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.9 |
| PPL | Electric combination oven (Energy Star) | Standard Oven | Grocery | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.9 |
| PPL | Electric Convection Oven | Conventional convection oven w/ 65% efficiency | Grocery | Cooking | Early | oven | 8,641 | 37% | 0.6 | 12 | \$4,169 | 81% | 0.4 |
| PPL | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Grocery | Cooking | New | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.7 |
| PPL | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Grocery | Cooking | ROB | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.7 |
| PPL | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Grocery | Cooking | Early | fryer | 6,105 | 23% | 0.3 | 12 | \$9,291 | 86% | 0.1 |
| PPL | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Grocery | Cooking | New | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| PPL | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Grocery | Cooking | ROB | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| PPL | High Efficiency Griddle (ENERGY STAR) | Efficiency code minimum griddle (70% eff) | Grocery | Cooking | Early | griddle | 11,317 | 65% | 1.4 | 12 | \$4,992 | 86% | 0.8 |
| PPL | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Grocery | Cooking | New | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.2 |
| PPL | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Grocery | Cooking | ROB | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.2 |
| PPL | High Efficiency Induction Cooking | Standard Cooking | Grocery | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| PPL | High Efficiency Induction Cooking | Standard Cooking | Grocery | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| PPL | Solid-state temperature controls | No Solid State Controls | Grocery | Cooking | Existing | building | 4,550 | 3.6% | 0.04 | 12 | \$20 | 34% | 4.6 |
| PPL | Adding reflective roof treatment | Std color roof | Grocery | Cooling Central | Existing | building | 3,254 | 7.0% | 0.07 | 6 | \$25,177 | 82% | 0.0 |
| PPL | Adding reflective roof treatment | Std color roof | Grocery | Cooling Central | New | building | 3,254 | 7.0% | 0.07 | 6 | \$25,177 | 82% | 0.0 |
| PPL | Adding window shade film | No shade film | Grocery | Cooling Central | Existing | building | 3,254 | 1.3% | 0.4 | 10 | \$40 | 12% | 5.4 |
| PPL | Adding window shade film | No shade film | Grocery | Cooling Central | New | building | 3,254 | 1.3% | 0.4 | 10 | \$40 | 13% | 5.4 |
| PPL | Adding window shade screen | No shade screen | Grocery | Cooling Central | Existing | building | 3,254 | 1.1% | 0.01 | 10 | \$15 | 13% | 1.2 |
| PPL | Adding window shade screen | No shade screen | Grocery | Cooling Central | New | building | 3,254 | 1.1% | 0.01 | 10 | \$15 | 13% | 1.2 |
| PPL | Automated control system | Manual Controls | Grocery | Cooling Central | Existing | building | 3,254 | 17% | 0.2 | 15 | \$3,562 | 51% | 0.1 |
| PPL | Automated control system | Manual Controls | Grocery | Cooling Central | New | building | 3,254 | 17% | 0.2 | 15 | \$3,562 | 94% | 0.1 |
| PPL | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Grocery | Cooling Central | Existing | building | 3,254 | 9.8% | 0.10 | 15 | \$33,930 | 71% | 0.0 |
| PPL | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Grocery | Cooling Central | New | building | 3,254 | 3.3% | 0.03 | 15 | \$32,251 | 94% | 0.0 |
| PPL | Chiller Tuneup/Diagnostics | No tuneup | Grocery | Cooling Central | Existing | building | 3,254 | 8.0% | 0.08 | 10 | \$8,308 | 59% | 0.0 |
| PPL | Chiller Tuneup/Diagnostics | No tuneup | Grocery | Cooling Central | New | building | 3,254 | 8.0% | 0.08 | 10 | \$8,308 | 59% | 0.0 |
| PPL | Duct Insulation, Add R8 | No Insulation | Grocery | Cooling Central | Existing | building | 3,254 | 1.4% | 0.04 | 15 | \$26 | 20% | 2.0 |
| PPL | Duct Insulation, Add R8 | No Insulation | Grocery | Cooling Central | New | building | 3,254 | 1.4% | 0.04 | 15 | \$26 | 10% | 2.0 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Grocery | Cooling Central | Existing | building | 3,254 | 7.0% | 0.07 | 15 | \$14,432 | 25% | 0.0 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Grocery | Cooling Central | New | building | 3,254 | 7.0% | 0.07 | 15 | \$14,432 | 35% | 0.0 |
| PPL | Hi Eff HVAC System Design | No HVAC Design | Grocery | Cooling Central | New | building | 3,254 | 9.3% | 0.09 | 10 | \$943,864 | 51% | 0.0 |
| PPL | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Grocery | Cooling Central | Early | ton | 4,365 | 24% | 0.4 | 15 | \$108,550 | 88% | 0.0 |
| PPL | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Grocery | Cooling Central | New | ton | 3,568 | 6.7% | 0.08 | 15 | \$12,927 | 88% | 0.0 |
| PPL | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Grocery | Cooling Central | ROB | ton | 3,568 | 6.7% | 0.08 | 15 | \$12,927 | 88% | 0.0 |
| PPL | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Grocery | Cooling Central | Early | ton | 6,522 | 23% | 0.5 | 15 | \$140,105 | 88% | 0.0 |
| PPL | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Grocery | Cooling Central | New | ton | 5,247 | 4.9% | 0.09 | 15 | \$9,336 | 88% | 0.0 |
| PPL | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Grocery | Cooling Central | ROB | ton | 5,247 | 4.9% | 0.09 | 15 | \$9,336 | 88% | 0.0 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Grocery | Cooling Central | Early | ton | 53,390 | 26% | 4.8 | 15 | \$105,354 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Grocery | Cooling Central | New | ton | 46,518 | 15% | 2.4 | 15 | \$30,530 | 88% | 0.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|--|---------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Grocery | Cooling Central | ROB | ton | 46,518 | 15% | 2.4 | 15 | \$30,530 | 88% | 0.2 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Grocery | Cooling Central | Early | ton | 79,963 | 23% | 6.4 | 15 | \$154,107 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Grocery | Cooling Central | New | ton | 73,456 | 16% | 4.1 | 15 | \$27,646 | 88% | 0.3 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Grocery | Cooling Central | ROB | ton | 79,963 | 23% | 6.4 | 15 | \$27,646 | 88% | 0.5 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Grocery | Cooling Central | Early | ton | 132,804 | 23% | 10.4 | 15 | \$302,924 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Grocery | Cooling Central | New | ton | 120,197 | 14% | 6.0 | 15 | \$115,432 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Grocery | Cooling Central | ROB | ton | 132,804 | 23% | 10.4 | 15 | \$115,432 | 88% | 0.2 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Grocery | Cooling Central | Early | ton | 159,365 | 23% | 12.5 | 15 | \$350,154 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Grocery | Cooling Central | New | ton | 144,236 | 14% | 7.3 | 15 | \$120,406 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Grocery | Cooling Central | ROB | ton | 159,365 | 23% | 12.5 | 15 | \$120,406 | 88% | 0.2 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Grocery | Cooling Central | Early | ton | 35,325 | 29% | 3.6 | 15 | \$83,632 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Grocery | Cooling Central | New | ton | 27,429 | 8.9% | 0.9 | 15 | \$40,211 | 88% | 0.0 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Grocery | Cooling Central | ROB | ton | 35,325 | 29% | 3.6 | 15 | \$40,211 | 88% | 0.2 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Grocery | Cooling Central | Early | ton | 60,696 | 35% | 7.3 | 15 | \$132,173 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Grocery | Cooling Central | New | ton | 45,269 | 13% | 2.0 | 15 | \$39,556 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Grocery | Cooling Central | ROB | ton | 45,269 | 13% | 2.0 | 15 | \$39,556 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Grocery | Cooling Central | Early | ton | 101,337 | 39% | 13.8 | 15 | \$187,029 | 88% | 0.2 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Grocery | Cooling Central | New | ton | 72,252 | 15% | 3.7 | 15 | \$33,554 | 88% | 0.2 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Grocery | Cooling Central | ROB | ton | 101,337 | 39% | 13.8 | 15 | \$33,554 | 88% | 0.9 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Grocery | Cooling Central | Early | ton | 17,733 | 30% | 1.8 | 15 | \$32,398 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Grocery | Cooling Central | New | ton | 14,049 | 11% | 0.5 | 15 | \$7,188 | 88% | 0.2 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Grocery | Cooling Central | ROB | ton | 17,733 | 30% | 1.8 | 15 | \$7,188 | 88% | 0.6 |
| PPL | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Grocery | Cooling Central | Existing | building | 3,254 | 1.1% | 0.01 | 10 | \$94,032 | 81% | 0.0 |
| PPL | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Grocery | Cooling Central | New | building | 3,254 | 1.1% | 0.01 | 10 | \$94,032 | 81% | 0.0 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Grocery | Cooling Central | Existing | building | 3,254 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.1 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Grocery | Cooling Central | New | building | 3,254 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.2 |
| PPL | Re-Commissioning (Existing Construction) | No Re-Commissioning | Grocery | Cooling Central | Existing | building | 3,254 | 16% | 0.2 | 5 | \$19,254 | 86% | 0.0 |
| PPL | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Grocery | Cooling Central | Existing | building | 3,254 | 19% | 0.2 | 15 | \$7,224 | 26% | 0.1 |
| PPL | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Grocery | Cooling Central | New | building | 3,254 | 0.5% | 0.01 | 15 | \$5,541 | 94% | 0.0 |
| PPL | <65k BTU/hr 14 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Grocery | Cooling Unitary | Early | ton | 2,000 | 16% | 0.2 | 15 | \$1,545 | 29% | 0.2 |
| PPL | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Grocery | Cooling Unitary | New | ton | 1,811 | 7.1% | 0.07 | 15 | \$339 | 29% | 0.3 |
| PPL | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Grocery | Cooling Unitary | ROB | ton | 1,811 | 7.1% | 0.07 | 15 | \$339 | 29% | 0.3 |
| PPL | <65k BTU/hr 15 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Grocery | Cooling Unitary | Early | ton | 2,000 | 22% | 0.1 | 15 | \$1,821 | 30% | 0.2 |
| PPL | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Grocery | Cooling Unitary | New | ton | 1,811 | 13% | 0.2 | 15 | \$714 | 30% | 0.4 |
| PPL | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Grocery | Cooling Unitary | ROB | ton | 1,811 | 13% | 0.2 | 15 | \$714 | 30% | 0.4 |
| PPL | <65k BTU/hr 16 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Grocery | Cooling Unitary | Early | ton | 2,000 | 26% | 0.3 | 15 | \$2,098 | 31% | 0.2 |
| PPL | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Grocery | Cooling Unitary | New | ton | 1,811 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.3 |
| PPL | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Grocery | Cooling Unitary | ROB | ton | 1,811 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.3 |
| PPL | >760k min 10.2 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Grocery | Cooling Unitary | Early | ton | 50,592 | 3.7% | 0.9 | 15 | \$68,066 | 56% | 0.0 |
| PPL | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Grocery | Cooling Unitary | New | ton | 51,241 | 4.9% | 1.3 | 15 | \$6,231 | 56% | 0.4 |
| PPL | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Grocery | Cooling Unitary | ROB | ton | 51,241 | 4.9% | 1.3 | 15 | \$6,231 | 56% | 0.4 |
| PPL | 135-240k min 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Grocery | Cooling Unitary | Early | ton | 9,436 | 18% | 1.1 | 15 | \$18,135 | 79% | 0.1 |
| PPL | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Grocery | Cooling Unitary | New | ton | 8,584 | 10.0% | 0.6 | 15 | \$1,948 | 79% | 0.4 |
| PPL | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Grocery | Cooling Unitary | ROB | ton | 8,584 | 10.0% | 0.6 | 15 | \$1,948 | 79% | 0.4 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|--|---------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | 240k-760k min 11 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Grocery | Cooling Unitary | Early | ton | 33,284 | 9.0% | 1.5 | 15 | \$44,809 | 66% | 0.1 |
| PPL | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Grocery | Cooling Unitary | New | ton | 33,367 | 9.3% | 1.6 | 15 | \$4,813 | 66% | 0.6 |
| PPL | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Grocery | Cooling Unitary | ROB | ton | 33,367 | 9.3% | 1.6 | 15 | \$4,813 | 66% | 0.6 |
| PPL | 65k-135k BTU/hr 12 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Grocery | Cooling Unitary | Early | ton | 7,338 | 17% | 0.6 | 15 | \$10,946 | 86% | 0.1 |
| PPL | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Grocery | Cooling Unitary | New | ton | 6,540 | 6.7% | 0.2 | 15 | \$1,392 | 86% | 0.3 |
| PPL | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Grocery | Cooling Unitary | ROB | ton | 6,540 | 6.7% | 0.2 | 15 | \$1,392 | 86% | 0.3 |
| PPL | Adding reflective roof treatment | Std color roof | Grocery | Cooling Unitary | Existing | building | 30,186 | 7.0% | 0.07 | 6 | \$25,177 | 82% | 0.0 |
| PPL | Adding reflective roof treatment | Std color roof | Grocery | Cooling Unitary | New | building | 30,186 | 7.0% | 0.07 | 6 | \$25,177 | 82% | 0.0 |
| PPL | Adding window shade film | No shade film | Grocery | Cooling Unitary | Existing | building | 30,186 | 1.3% | 0.4 | 10 | \$367 | 12% | 0.9 |
| PPL | Adding window shade film | No shade film | Grocery | Cooling Unitary | New | building | 30,186 | 1.3% | 0.4 | 10 | \$367 | 13% | 0.9 |
| PPL | Adding window shade screen | No shade screen | Grocery | Cooling Unitary | Existing | building | 30,186 | 1.1% | 0.01 | 10 | \$142 | 12% | 0.9 |
| PPL | Adding window shade screen | No shade screen | Grocery | Cooling Unitary | New | building | 30,186 | 1.1% | 0.01 | 10 | \$142 | 13% | 0.9 |
| PPL | Automated control system | Manual Controls | Grocery | Cooling Unitary | Existing | building | 30,186 | 17% | 0.2 | 15 | \$33,047 | 51% | 0.1 |
| PPL | Automated control system | Manual Controls | Grocery | Cooling Unitary | New | building | 30,186 | 17% | 0.2 | 15 | \$33,047 | 94% | 0.1 |
| PPL | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Grocery | Cooling Unitary | Existing | building | 30,186 | 9.8% | 0.10 | 15 | \$33,930 | 71% | 0.0 |
| PPL | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Grocery | Cooling Unitary | New | building | 30,186 | 3.3% | 0.03 | 15 | \$32,251 | 94% | 0.0 |
| PPL | Duct Insulation, Add R8 | No Insulation | Grocery | Cooling Unitary | Existing | building | 30,186 | 1.4% | 0.04 | 15 | \$240 | 20% | 1.1 |
| PPL | Duct Insulation, Add R8 | No Insulation | Grocery | Cooling Unitary | New | building | 30,186 | 1.4% | 0.04 | 15 | \$240 | 10% | 1.1 |
| PPL | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Grocery | Cooling Unitary | Existing | building | 16,496 | 13% | 0.1 | 1 | \$158 | 73% | 0.8 |
| PPL | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Grocery | Cooling Unitary | New | building | 16,496 | 13% | 0.1 | 1 | \$158 | 73% | 0.8 |
| PPL | ECM Motors for split systems | Std Shaded Pole Motor | Grocery | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.6 |
| PPL | ECM Motors for split systems | Std Shaded Pole Motor | Grocery | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.6 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Grocery | Cooling Unitary | Existing | building | 30,186 | 7.1% | 0.07 | 15 | \$133,899 | 25% | 0.0 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Grocery | Cooling Unitary | New | building | 30,186 | 7.1% | 0.07 | 15 | \$133,899 | 35% | 0.0 |
| PPL | Hi Eff HVAC System Design | No HVAC Design | Grocery | Cooling Unitary | New | building | 30,186 | 9.3% | 0.09 | 10 | \$11,409 | 51% | 0.1 |
| PPL | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Grocery | Cooling Unitary | Existing | building | 30,186 | 5.0% | 0.05 | 5 | \$225 | 59% | 1.5 |
| PPL | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Grocery | Cooling Unitary | Existing | building | 30,186 | 1.1% | 0.01 | 10 | \$101,057 | 86% | 0.0 |
| PPL | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Grocery | Cooling Unitary | New | building | 30,186 | 1.1% | 0.01 | 10 | \$101,057 | 86% | 0.0 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) | Grocery | Cooling Unitary | Existing | building | 30,186 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.9 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Grocery | Cooling Unitary | New | building | 30,186 | 1.7% | 0.02 | 11 | \$146 | 49% | 1.5 |
| PPL | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Grocery | Cooling Unitary | Early | unit | 677 | 19% | 0.07 | 15 | \$849 | 85% | 0.1 |
| PPL | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Grocery | Cooling Unitary | New | unit | 683 | 20% | 0.07 | 15 | \$356 | 85% | 0.3 |
| PPL | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Grocery | Cooling Unitary | ROB | unit | 683 | 20% | 0.07 | 15 | \$356 | 85% | 0.3 |
| PPL | Re-Commissioning (Existing Construction) | No Re-Commissioning | Grocery | Cooling Unitary | Existing | building | 30,186 | 16% | 0.2 | 5 | \$19,254 | 86% | 0.1 |
| PPL | Room AC (w/ louvered sides) | Existing efficiency Room AC in Pennsylvania (2000 Federal Standards) | Grocery | Cooling Unitary | Early | ton | 944 | 13% | 0.04 | 9 | \$348 | 82% | 0.2 |
| PPL | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Grocery | Cooling Unitary | New | ton | 856 | 4.5% | 0.01 | 9 | \$17 | 82% | 1.1 |
| PPL | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Grocery | Cooling Unitary | ROB | ton | 856 | 4.5% | 0.01 | 9 | \$17 | 82% | 1.1 |
| PPL | Wall Insualtions (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Grocery | Cooling Unitary | Existing | building | 30,186 | 19% | 0.2 | 15 | \$7,224 | 26% | 0.5 |
| PPL | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Grocery | Cooling Unitary | New | building | 30,186 | 0.5% | 0.01 | 15 | \$5,541 | 94% | 0.0 |
| PPL | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Grocery | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 1.1 |
| PPL | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Grocery | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.5 |
| PPL | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Grocery | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.5 |
| PPL | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Grocery | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 0% | 0.2 |
| PPL | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Grocery | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| PPL | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Grocery | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| PPL | LED exterior lighting | 250 Watt Incandescent | Grocery | Ext. Lighting | ROB | measure | 1,456 | 83% | 0.2 | 15 | \$104 | 89% | 7.8 |
| PPL | LED exterior lighting | 250 Watt Incandescent | Grocery | Ext. Lighting | ROB | measure | 1,456 | 83% | 0.2 | 15 | \$104 | 89% | 7.9 |
| PPL | LED exterior lighting | 250 Watt Incandescent | Grocery | Ext. Lighting | ROB | measure | 1,456 | 83% | 0.2 | 15 | \$104 | 89% | 7.9 |
| PPL | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Grocery | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 75% | 0.3 |
| PPL | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Grocery | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 75% | 0.2 |
| PPL | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Grocery | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.8 |
| PPL | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Grocery | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.1 |
| PPL | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Grocery | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.8 |
| PPL | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Grocery | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.1 |
| PPL | Photocell Controls (Outdoor) | Lighting w/ No Controls | Grocery | Ext. Lighting | Existing | building | 1,398 | 28% | 0.3 | 8 | \$1,459 | 88% | 0.2 |
| PPL | Photocell Controls (Outdoor) | Lighting w/ No Controls | Grocery | Ext. Lighting | New | building | 1,398 | 28% | 0.3 | 8 | \$1,459 | 0% | 0.2 |
| PPL | Adding reflective roof treatment | Std color roof | Grocery | Heat Pump | Existing | building | 3,105 | 6.9% | 0.07 | 6 | \$25,177 | 82% | 0.0 |
| PPL | Adding reflective roof treatment | Std color roof | Grocery | Heat Pump | New | building | 3,105 | 6.9% | 0.07 | 6 | \$25,177 | 82% | 0.0 |
| PPL | Adding window shade film | No shade film | Grocery | Heat Pump | Existing | building | 3,105 | 3.9% | 0.4 | 10 | \$38 | 12% | 6.4 |
| PPL | Adding window shade film | No shade film | Grocery | Heat Pump | New | building | 3,105 | 3.9% | 0.4 | 10 | \$38 | 12% | 6.4 |
| PPL | Adding window shade screen | No shade screen | Grocery | Heat Pump | Existing | building | 3,105 | 0.3% | 0.01 | 10 | \$15 | 12% | 1.2 |
| PPL | Adding window shade screen | No shade screen | Grocery | Heat Pump | New | building | 3,105 | 0.3% | 0.01 | 10 | \$15 | 12% | 1.2 |
| PPL | Automated control system | Manual Controls | Grocery | Heat Pump | Existing | building | 3,105 | 17% | 0.2 | 15 | \$3,399 | 51% | 0.1 |
| PPL | Automated control system | Manual Controls | Grocery | Heat Pump | New | building | 3,105 | 17% | 0.2 | 15 | \$3,399 | 94% | 0.1 |
| PPL | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Grocery | Heat Pump | Existing | building | 3,105 | 9.8% | 0.10 | 15 | \$33,930 | 71% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|--|---------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Grocery | Heat Pump | New | building | 3,105 | 3.3% | 0.03 | 15 | \$32,251 | 94% | 0.0 |
| PPL | Duct Insulation, Add R8 | No Insulation | Grocery | Heat Pump | Existing | building | 3,105 | 4.0% | 0.04 | 15 | \$25 | 12% | 3.9 |
| PPL | Duct Insulation, Add R8 | No Insulation | Grocery | Heat Pump | New | building | 3,105 | 4.0% | 0.04 | 15 | \$25 | 6% | 3.9 |
| PPL | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Grocery | Heat Pump | Early | heat pump | 1,816 | 12% | 0.02 | 15 | \$4,070 | 83% | 0.0 |
| PPL | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Grocery | Heat Pump | New | heat pump | 1,731 | 7.8% | 0.01 | 15 | \$1,097 | 83% | 0.1 |
| PPL | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Grocery | Heat Pump | ROB | heat pump | 1,731 | 7.8% | 0.01 | 15 | \$1,097 | 83% | 0.1 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Grocery | Heat Pump | Existing | building | 3,105 | 7.0% | 0.07 | 15 | \$13,771 | 25% | 0.0 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Grocery | Heat Pump | New | building | 3,105 | 7.0% | 0.07 | 15 | \$13,771 | 35% | 0.0 |
| PPL | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Grocery | Heat Pump | Early | heat pump | 18,718 | 16% | 0.3 | 15 | \$91,117 | 19% | 0.0 |
| PPL | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Grocery | Heat Pump | New | heat pump | 18,037 | 13% | 0.2 | 15 | \$33,927 | 19% | 0.0 |
| PPL | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Grocery | Heat Pump | ROB | heat pump | 18,037 | 13% | 0.2 | 15 | \$33,927 | 19% | 0.0 |
| PPL | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Grocery | Heat Pump | Early | heat pump | 18,718 | 16% | 0.3 | 15 | \$58,356 | 19% | 0.0 |
| PPL | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Grocery | Heat Pump | New | heat pump | 18,037 | 13% | 0.2 | 15 | \$1,167 | 19% | 1.2 |
| PPL | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Grocery | Heat Pump | ROB | heat pump | 18,037 | 13% | 0.2 | 15 | \$1,167 | 19% | 1.2 |
| PPL | Hi Eff HVAC System Design | No HVAC Design | Grocery | Heat Pump | New | building | 3,105 | 9.3% | 0.09 | 10 | \$943,864 | 51% | 0.0 |
| PPL | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Grocery | Heat Pump | Early | heat pump | 4,842 | 17% | 0.07 | 12 | \$4,298 | 81% | 0.1 |
| PPL | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Grocery | Heat Pump | Early | heat pump | 4,842 | 25% | 0.1 | 12 | \$5,883 | 81% | 0.1 |
| PPL | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Grocery | Heat Pump | New | heat pump | 4,616 | 12% | 0.05 | 12 | \$852 | 81% | 0.3 |
| PPL | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Grocery | Heat Pump | New | heat pump | 4,616 | 22% | 0.09 | 12 | \$2,437 | 81% | 0.2 |
| PPL | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Grocery | Heat Pump | ROB | heat pump | 4,616 | 12% | 0.05 | 12 | \$852 | 81% | 0.3 |
| PPL | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Grocery | Heat Pump | ROB | heat pump | 4,616 | 22% | 0.09 | 12 | \$2,437 | 81% | 0.2 |
| PPL | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Grocery | Heat Pump | Existing | building | 3,105 | 1.1% | 0.01 | 10 | \$89,973 | 81% | 0.0 |
| PPL | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Grocery | Heat Pump | New | building | 3,105 | 1.1% | 0.01 | 10 | \$89,973 | 81% | 0.0 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Grocery | Heat Pump | Existing | building | 3,105 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.2 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Grocery | Heat Pump | New | building | 3,105 | 2.1% | 0.02 | 11 | \$146 | 49% | 0.3 |
| PPL | Re-Commissioning (Existing Construction) | No Re-Commissioning | Grocery | Heat Pump | Existing | building | 3,105 | 16% | 0.2 | 5 | \$19,254 | 86% | 0.0 |
| PPL | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Grocery | Heat Pump | Existing | building | 3,105 | 19% | 0.2 | 15 | \$7,224 | 26% | 0.1 |
| PPL | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Grocery | Heat Pump | New | building | 3,105 | 0.5% | 0.01 | 15 | \$5,541 | 94% | 0.0 |
| PPL | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Grocery | Heat Pump | Early | heat pump | 7,765 | 35% | 0.2 | 15 | \$35,347 | 28% | 0.0 |
| PPL | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Grocery | Heat Pump | New | heat pump | 7,377 | 31% | 0.2 | 15 | \$15,739 | 28% | 0.1 |
| PPL | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Grocery | Heat Pump | ROB | heat pump | 7,377 | 31% | 0.2 | 15 | \$15,739 | 28% | 0.1 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Grocery | High Bay Lighting | Early | Fixture | 1,363 | 9.6% | 0.02 | 13 | \$875 | 39% | 0.1 |
| PPL | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Grocery | High Bay Lighting | Early | Fixture | 1,362 | 9.5% | 0.02 | 13 | \$875 | 28% | 0.1 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Grocery | High Bay Lighting | Early | Fixture | 2,102 | 41% | 0.1 | 13 | \$875 | 36% | 0.6 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Grocery | High Bay Lighting | New | Fixture | 1,036 | 9.6% | 0.02 | 13 | \$372 | 39% | 0.2 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Grocery | High Bay Lighting | New | Fixture | 964 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Grocery | High Bay Lighting | New | Fixture | 1,597 | 41% | 0.1 | 13 | \$397 | 36% | 1.0 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Grocery | High Bay Lighting | ROB | Fixture | 1,363 | 9.6% | 0.02 | 13 | \$372 | 39% | 0.2 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Grocery | High Bay Lighting | ROB | Fixture | 1,268 | 2.9% | 0.01 | 13 | \$338 | 28% | 0.1 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Grocery | High Bay Lighting | ROB | Fixture | 2,102 | 41% | 0.1 | 13 | \$397 | 36% | 1.3 |
| PPL | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Grocery | High Bay Lighting | Early | Fixture | 2,645 | 19% | 0.09 | 13 | \$877 | 38% | 0.4 |
| PPL | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Grocery | High Bay Lighting | Early | Fixture | 2,678 | 20% | 0.09 | 13 | \$877 | 38% | 0.4 |
| PPL | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | Early | Fixture | 7,791 | 73% | 1.0 | 13 | \$877 | 38% | 3.9 |
| PPL | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Grocery | High Bay Lighting | New | Fixture | 2,010 | 19% | 0.07 | 13 | \$372 | 38% | 0.6 |
| PPL | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | New | Fixture | 5,921 | 73% | 0.7 | 13 | \$383 | 38% | 6.8 |
| PPL | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Grocery | High Bay Lighting | ROB | Fixture | 2,645 | 19% | 0.09 | 13 | \$372 | 38% | 0.8 |
| PPL | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | ROB | Fixture | 7,791 | 73% | 1.0 | 13 | \$383 | 38% | 9.0 |
| PPL | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Grocery | High Bay Lighting | Early | Fixture | 2,645 | 25% | 0.1 | 13 | \$580 | 29% | 0.7 |
| PPL | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Grocery | High Bay Lighting | Early | Fixture | 2,597 | 23% | 0.1 | 13 | \$580 | 28% | 0.6 |
| PPL | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | Early | Fixture | 7,791 | 74% | 1.0 | 13 | \$580 | 36% | 6.1 |
| PPL | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Grocery | High Bay Lighting | New | Fixture | 2,010 | 25% | 0.09 | 13 | \$75 | 29% | 4.0 |
| PPL | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | New | Fixture | 5,921 | 74% | 0.8 | 13 | \$86 | 36% | 31.3 |
| PPL | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Grocery | High Bay Lighting | ROB | Fixture | 2,645 | 25% | 0.1 | 13 | \$75 | 29% | 5.3 |
| PPL | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | ROB | Fixture | 7,791 | 74% | 1.0 | 13 | \$86 | 36% | 41.2 |
| PPL | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Grocery | High Bay Lighting | Early | Fixture | 690 | 0.2% | 0.00 | 13 | \$861 | 38% | 0.0 |
| PPL | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Grocery | High Bay Lighting | Early | Fixture | 1,486 | 54% | 0.1 | 13 | \$861 | 38% | 0.6 |
| PPL | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Grocery | High Bay Lighting | New | Fixture | 1,129 | 54% | 0.1 | 13 | \$382 | 38% | 1.0 |
| PPL | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Grocery | High Bay Lighting | ROB | Fixture | 1,486 | 54% | 0.1 | 13 | \$382 | 38% | 1.3 |
| PPL | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Grocery | High Bay Lighting | Early | Fixture | 3,370 | 18% | 0.1 | 13 | \$512 | 25% | 0.7 |
| PPL | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Grocery | High Bay Lighting | Early | Fixture | 3,524 | 22% | 0.1 | 13 | \$512 | 28% | 0.9 |
| PPL | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | Early | Fixture | 7,791 | 65% | 0.9 | 13 | \$512 | 36% | 6.0 |
| PPL | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Grocery | High Bay Lighting | New | Fixture | 2,561 | 18% | 0.08 | 13 | \$16 | 25% | 17.5 |
| PPL | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | New | Fixture | 5,921 | 65% | 0.7 | 13 | \$18 | 36% | 126.9 |
| PPL | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Grocery | High Bay Lighting | ROB | Fixture | 3,370 | 18% | 0.1 | 13 | \$16 | 25% | 23.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|---|---------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | ROB | Fixture | 7,791 | 65% | 0.9 | 13 | \$18 | 36% | 166.9 |
| PPL | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Grocery | High Bay Lighting | Early | Fixture | 3,370 | 1.5% | 0.01 | 13 | \$582 | 19% | 0.1 |
| PPL | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Grocery | High Bay Lighting | Early | Fixture | 3,469 | 4.3% | 0.03 | 13 | \$582 | 19% | 0.2 |
| PPL | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | Early | Fixture | 7,791 | 57% | 0.8 | 13 | \$582 | 19% | 4.7 |
| PPL | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Grocery | High Bay Lighting | New | Fixture | 2,561 | 1.5% | 0.01 | 13 | \$86 | 19% | 0.3 |
| PPL | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | New | Fixture | 5,921 | 57% | 0.6 | 13 | \$88 | 19% | 23.5 |
| PPL | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Grocery | High Bay Lighting | ROB | Fixture | 3,370 | 1.5% | 0.01 | 13 | \$86 | 19% | 0.4 |
| PPL | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | ROB | Fixture | 7,791 | 57% | 0.8 | 13 | \$88 | 19% | 30.9 |
| PPL | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Grocery | High Bay Lighting | Early | Fixture | 1,431 | 29% | 0.05 | 13 | \$517 | 71% | 0.5 |
| PPL | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Grocery | High Bay Lighting | Early | Fixture | 1,197 | 15% | 0.02 | 13 | \$517 | 95% | 0.2 |
| PPL | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Grocery | High Bay Lighting | Early | Fixture | 1,778 | 43% | 0.09 | 13 | \$517 | 95% | 0.9 |
| PPL | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Grocery | High Bay Lighting | Early | Fixture | 1,648 | 38% | 0.08 | 13 | \$517 | 95% | 0.7 |
| PPL | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Grocery | High Bay Lighting | New | Fixture | 909 | 15% | 0.02 | 13 | \$25 | 95% | 3.2 |
| PPL | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Grocery | High Bay Lighting | New | Fixture | 1,351 | 43% | 0.07 | 13 | \$51 | 95% | 6.5 |
| PPL | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Grocery | High Bay Lighting | ROB | Fixture | 1,197 | 15% | 0.02 | 13 | \$25 | 95% | 4.2 |
| PPL | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Grocery | High Bay Lighting | ROB | Fixture | 1,778 | 43% | 0.09 | 13 | \$51 | 95% | 8.5 |
| PPL | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Grocery | High Bay Lighting | Early | lamp | 155 | 16% | 0.00 | 7 | \$8.7 | 99% | 1.0 |
| PPL | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Grocery | High Bay Lighting | New | lamp | 92 | 13% | 0.00 | 7 | \$1.6 | 91% | 2.6 |
| PPL | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Grocery | High Bay Lighting | ROB | lamp | 149 | 13% | 0.00 | 7 | \$1.6 | 91% | 4.2 |
| PPL | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Grocery | High Bay Lighting | Early | Fixture | 7,972 | 23% | 0.3 | 13 | \$639 | 5% | 1.7 |
| PPL | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Grocery | High Bay Lighting | Early | Fixture | 6,263 | 1.6% | 0.02 | 13 | \$639 | 28% | 0.1 |
| PPL | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | Early | Fixture | 15,582 | 60% | 1.6 | 13 | \$639 | 18% | 9.0 |
| PPL | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Grocery | High Bay Lighting | New | Fixture | 6,059 | 23% | 0.2 | 13 | \$96 | 5% | 8.7 |
| PPL | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Grocery | High Bay Lighting | ROB | Fixture | 7,972 | 23% | 0.3 | 13 | \$96 | 5% | 11.5 |
| PPL | Auto Off Time Switch | Lighting w/ No Controls | Grocery | High Bay Lighting | Existing | building | 5,345 | 24% | 0.2 | 8 | \$296 | 13% | 1.8 |
| PPL | Auto Off Time Switch | Lighting w/ No Controls | Grocery | High Bay Lighting | New | building | 5,345 | 6.9% | 0.07 | 8 | \$296 | 0% | 0.5 |
| PPL | Central Lighting Control System | Lighting w/ No Controls | Grocery | High Bay Lighting | Existing | building | 5,345 | 38% | 0.4 | 8 | \$296 | 13% | 2.8 |
| PPL | Central Lighting Control System | Lighting w/ No Controls | Grocery | High Bay Lighting | New | building | 5,345 | 14% | 0.1 | 8 | \$296 | 13% | 1.0 |
| PPL | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Grocery | High Bay Lighting | New | building | 5,345 | 10.0% | 0.1 | 15 | \$69,961 | 32% | 0.0 |
| PPL | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Grocery | High Bay Lighting | New | building | 5,345 | 15% | 0.2 | 15 | \$174,902 | 32% | 0.0 |
| PPL | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Grocery | High Bay Lighting | New | building | 5,345 | 30% | 0.3 | 15 | \$250,693 | 32% | 0.0 |
| PPL | Indoor Daylight Sensors | Lighting w/ No Controls | Grocery | High Bay Lighting | Existing | building | 5,345 | 28% | 0.3 | 8 | \$1,459 | 13% | 0.4 |
| PPL | Indoor Daylight Sensors | Lighting w/ No Controls | Grocery | High Bay Lighting | New | building | 5,345 | 4.0% | 0.04 | 8 | \$1,459 | 0% | 0.1 |
| PPL | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Grocery | High Bay Lighting | Early | Fixture | 7,972 | 92% | 1.3 | 13 | \$1,941 | 95% | 2.3 |
| PPL | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | Early | Fixture | 15,582 | 96% | 2.6 | 13 | \$1,941 | 95% | 4.7 |
| PPL | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Grocery | High Bay Lighting | New | Fixture | 6,059 | 92% | 1.0 | 13 | \$1,468 | 95% | 2.3 |
| PPL | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | New | Fixture | 11,842 | 96% | 2.0 | 13 | \$1,149 | 95% | 6.0 |
| PPL | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Grocery | High Bay Lighting | ROB | Fixture | 7,972 | 92% | 1.3 | 13 | \$1,468 | 95% | 3.1 |
| PPL | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Grocery | High Bay Lighting | ROB | Fixture | 15,582 | 96% | 2.6 | 13 | \$1,149 | 95% | 7.9 |
| PPL | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Grocery | High Bay Lighting | Early | Fixture | 2,645 | 67% | 0.3 | 13 | \$985 | 95% | 1.1 |
| PPL | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Grocery | High Bay Lighting | Early | Fixture | 7,791 | 89% | 1.2 | 13 | \$985 | 95% | 4.3 |
| PPL | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Grocery | High Bay Lighting | Early | Fixture | 2,138 | 59% | 0.2 | 13 | \$985 | 95% | 0.8 |
| PPL | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Grocery | High Bay Lighting | New | Fixture | 2,010 | 67% | 0.2 | 13 | \$480 | 95% | 1.7 |
| PPL | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Grocery | High Bay Lighting | New | Fixture | 5,921 | 89% | 0.9 | 13 | \$491 | 95% | 6.5 |
| PPL | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Grocery | High Bay Lighting | New | Fixture | 1,625 | 59% | 0.2 | 13 | \$406 | 95% | 1.4 |
| PPL | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Grocery | High Bay Lighting | ROB | Fixture | 2,645 | 67% | 0.3 | 13 | \$480 | 95% | 2.2 |
| PPL | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Grocery | High Bay Lighting | ROB | Fixture | 7,791 | 89% | 1.2 | 13 | \$491 | 95% | 8.6 |
| PPL | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Grocery | High Bay Lighting | ROB | Fixture | 2,138 | 59% | 0.2 | 13 | \$406 | 95% | 1.9 |
| PPL | Occupancy Sensor | Lighting w/ No Controls | Grocery | High Bay Lighting | Existing | building | 5,345 | 24% | 0.2 | 8 | \$447 | 12% | 1.2 |
| PPL | Occupancy Sensor | Lighting w/ No Controls | Grocery | High Bay Lighting | New | building | 5,345 | 6.9% | 0.07 | 8 | \$447 | 0% | 0.3 |
| PPL | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Grocery | High Bay Lighting | Existing | building | 5,345 | 28% | 0.3 | 8 | \$1,459 | 12% | 0.4 |
| PPL | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Grocery | High Bay Lighting | New | building | 5,345 | 4.0% | 0.04 | 8 | \$1,459 | 0% | 0.1 |
| PPL | Time Clock Control | Lighting w/ No Controls | Grocery | High Bay Lighting | Existing | building | 5,345 | 28% | 0.3 | 8 | \$296 | 13% | 2.1 |
| PPL | Time Clock Control | Lighting w/ No Controls | Grocery | High Bay Lighting | New | building | 5,345 | 4.0% | 0.04 | 8 | \$296 | 0% | 0.3 |
| PPL | Auto Off Time Switch | Lighting w/ No Controls | Grocery | Lin. Fluor. Lighting | Existing | building | 35,524 | 24% | 0.2 | 8 | \$296 | 13% | 9.7 |
| PPL | Auto Off Time Switch | Lighting w/ No Controls | Grocery | Lin. Fluor. Lighting | New | building | 35,524 | 7.0% | 0.07 | 8 | \$296 | 0% | 2.8 |
| PPL | Central Lighting Control System | Lighting w/ No Controls | Grocery | Lin. Fluor. Lighting | Existing | building | 35,524 | 38% | 0.4 | 8 | \$296 | 12% | 15.3 |
| PPL | Central Lighting Control System | Lighting w/ No Controls | Grocery | Lin. Fluor. Lighting | New | building | 35,524 | 14% | 0.1 | 8 | \$296 | 12% | 5.6 |
| PPL | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Grocery | Lin. Fluor. Lighting | New | building | 35,524 | 10% | 0.1 | 15 | \$69,961 | 32% | 0.0 |
| PPL | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Grocery | Lin. Fluor. Lighting | New | building | 35,524 | 15% | 0.2 | 15 | \$174,902 | 32% | 0.0 |
| PPL | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Grocery | Lin. Fluor. Lighting | New | building | 35,524 | 30% | 0.3 | 15 | \$250,693 | 32% | 0.0 |
| PPL | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Grocery | Lin. Fluor. Lighting | Early | Lamp | 312 | 38% | 0.02 | 7 | \$8.3 | 94% | 5.1 |
| PPL | Indoor Daylight Sensors | Lighting w/ No Controls | Grocery | Lin. Fluor. Lighting | Existing | building | 35,524 | 28% | 0.3 | 8 | \$1,459 | 13% | 2.3 |
| PPL | Indoor Daylight Sensors | Lighting w/ No Controls | Grocery | Lin. Fluor. Lighting | New | building | 35,524 | 4.1% | 0.04 | 8 | \$1,459 | 0% | 0.3 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | Early | Lamp | 165 | 19% | 0.01 | 8 | \$36 | 94% | 0.4 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 40W T12 Lamp, Magnetic Ballast | Grocery | Lin. Fluor. Lighting | Early | Lamp | 363 | 63% | 0.04 | 8 | \$36 | 94% | 2.5 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | Early | Lamp | 204 | 34% | 0.01 | 8 | \$36 | 94% | 0.8 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | Early | Lamp | 197 | 32% | 0.01 | 8 | \$36 | 94% | 0.7 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | New | Lamp | 126 | 19% | 0.00 | 8 | \$28 | 94% | 0.3 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | New | Lamp | 150 | 32% | 0.01 | 8 | \$29 | 94% | 0.7 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | New | Lamp | 155 | 34% | 0.01 | 8 | \$22 | 94% | 1.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|--|---------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | New | Lamp | 150 | 32% | 0.01 | 8 | \$29 | 94% | 0.7 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | ROB | Lamp | 165 | 19% | 0.01 | 8 | \$28 | 94% | 0.5 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | ROB | Lamp | 197 | 32% | 0.01 | 8 | \$29 | 94% | 0.9 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | ROB | Lamp | 204 | 34% | 0.01 | 8 | \$22 | 94% | 1.3 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | ROB | Lamp | 197 | 32% | 0.01 | 8 | \$29 | 94% | 0.9 |
| PPL | Occupancy Sensor | Lighting w/ No Controls | Grocery | Lin. Fluor. Lighting | Existing | building | 35,524 | 24% | 0.2 | 8 | \$447 | 13% | 6.4 |
| PPL | Occupancy Sensor | Lighting w/ No Controls | Grocery | Lin. Fluor. Lighting | New | building | 35,524 | 7.0% | 0.07 | 8 | \$447 | 0% | 1.9 |
| PPL | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Grocery | Lin. Fluor. Lighting | Existing | building | 35,524 | 28% | 0.3 | 8 | \$1,459 | 12% | 2.3 |
| PPL | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Grocery | Lin. Fluor. Lighting | New | building | 35,524 | 4.1% | 0.04 | 8 | \$1,459 | 0% | 0.3 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 40W T12 w/ Magnetic Ballast | Grocery | Lin. Fluor. Lighting | Early | Lamp | 312 | 54% | 0.03 | 7 | \$9.1 | 94% | 6.6 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | Early | Lamp | 200 | 28% | 0.01 | 7 | \$9.1 | 24% | 2.2 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | Early | Lamp | 194 | 26% | 0.01 | 7 | \$9.1 | 94% | 1.9 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | New | Lamp | 147 | 26% | 0.01 | 7 | \$2.5 | 94% | 5.3 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | New | Lamp | 147 | 26% | 0.01 | 7 | \$2.5 | 94% | 5.3 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | New | Lamp | 152 | 28% | 0.01 | 7 | \$2.5 | 24% | 6.0 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | New | Lamp | 147 | 26% | 0.01 | 7 | \$2.5 | 94% | 5.3 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | ROB | Lamp | 194 | 26% | 0.01 | 7 | \$2.5 | 94% | 7.0 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | ROB | Lamp | 194 | 26% | 0.01 | 7 | \$2.5 | 94% | 7.0 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | ROB | Lamp | 200 | 28% | 0.01 | 7 | \$2.5 | 24% | 7.9 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Grocery | Lin. Fluor. Lighting | ROB | Lamp | 194 | 26% | 0.01 | 7 | \$2.5 | 94% | 7.0 |
| PPL | T8 Lamp (any length) Electronic Ballast | Standard T12 lamp (any length) | Grocery | Lin. Fluor. Lighting | Early | Lamp | 367 | 42% | 0.02 | 7 | \$15 | 94% | 3.7 |
| PPL | Time Clock Control | Lighting w/ No Controls | Grocery | Lin. Fluor. Lighting | Existing | building | 35,524 | 28% | 0.3 | 8 | \$296 | 14% | 11.3 |
| PPL | Time Clock Control | Lighting w/ No Controls | Grocery | Lin. Fluor. Lighting | New | building | 35,524 | 4.1% | 0.04 | 8 | \$296 | 0% | 1.6 |
| PPL | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | Early | motor | 4,528 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.3 |
| PPL | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | Early | motor | 4,528 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.3 |
| PPL | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | Early | motor | 4,528 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.3 |
| PPL | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | Early | motor | 4,528 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.3 |
| PPL | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | Early | motor | 4,528 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.3 |
| PPL | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | New | motor | 4,390 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| PPL | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | New | motor | 4,390 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| PPL | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | New | motor | 4,390 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| PPL | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | New | motor | 4,390 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| PPL | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | ROB | motor | 4,390 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| PPL | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | ROB | motor | 4,390 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| PPL | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | ROB | motor | 4,390 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| PPL | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | ROB | motor | 4,390 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| PPL | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | ROB | motor | 4,390 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| PPL | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | ROB | motor | 4,390 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| PPL | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | ROB | motor | 4,390 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| PPL | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | Early | motor | 6,677 | 3.1% | 0.03 | 15 | \$402 | 76% | 0.3 |
| PPL | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | Early | motor | 6,677 | 3.1% | 0.03 | 15 | \$402 | 76% | 0.3 |
| PPL | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | Early | motor | 6,677 | 3.1% | 0.03 | 15 | \$402 | 76% | 0.3 |
| PPL | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | Early | motor | 6,677 | 3.1% | 0.03 | 15 | \$402 | 76% | 0.3 |
| PPL | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | Early | motor | 6,677 | 3.1% | 0.03 | 15 | \$402 | 76% | 0.3 |
| PPL | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | New | motor | 6,509 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.4 |
| PPL | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | New | motor | 6,509 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.4 |
| PPL | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | New | motor | 6,509 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.4 |
| PPL | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | New | motor | 6,509 | 0.6% | 0.01 | 15 | \$60 | 76% | 0.4 |
| PPL | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | New | motor | 6,509 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.4 |
| PPL | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | ROB | motor | 6,509 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.4 |
| PPL | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | ROB | motor | 6,509 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.4 |
| PPL | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | ROB | motor | 6,509 | 0.6% | 0.01 | 15 | \$60 | 76% | 0.4 |
| PPL | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | ROB | motor | 6,509 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.4 |
| PPL | 10 HP Motor, Ultra-PE | 10 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | Early | motor | 41,803 | 2.6% | 0.1 | 15 | \$962 | 85% | 0.7 |
| PPL | 10 HP Motor, Ultra-PE | 10 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | Early | motor | 41,803 | 2.6% | 0.1 | 15 | \$962 | 85% | 0.7 |
| PPL | 10 HP Motor, Ultra-PE | 10 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | Early | motor | 41,803 | 2.6% | 0.1 | 15 | \$962 | 85% | 0.7 |
| PPL | 10 HP Motor, Ultra-PE | 10 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | Early | motor | 41,803 | 2.6% | 0.2 | 15 | \$962 | 85% | 0.8 |
| PPL | 10 HP Motor, Ultra-PE | 10 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | Early | motor | 41,803 | 2.6% | 0.1 | 15 | \$962 | 85% | 0.7 |
| PPL | 10 HP Motor, Ultra-PE | 10 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | New | motor | 40,930 | 0.5% | 0.03 | 15 | \$115 | 85% | 1.2 |
| PPL | 10 HP Motor, Ultra-PE | 10 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | New | motor | 40,930 | 0.5% | 0.03 | 15 | \$115 | 85% | 1.2 |
| PPL | 10 HP Motor, Ultra-PE | 10 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | New | motor | 40,930 | 0.5% | 0.03 | 15 | \$115 | 85% | 1.2 |
| PPL | 10 HP Motor, Ultra-PE | 10 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | New | motor | 40,930 | 0.5% | 0.03 | 15 | \$115 | 85% | 1.2 |
| PPL | 10 HP Motor, Ultra-PE | 10 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | ROB | motor | 40,930 | 0.5% | 0.03 | 15 | \$115 | 85% | 1.2 |
| PPL | 10 HP Motor, Ultra-PE | 10 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | ROB | motor | 40,930 | 0.5% | 0.03 | 15 | \$115 | 85% | 1.2 |
| PPL | 10 HP Motor, Ultra-PE | 10 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | ROB | motor | 40,930 | 0.5% | 0.03 | 15 | \$115 | 85% | 1.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|---|---------|---------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | Early | motor | 298,777 | 1.3% | 0.5 | 15 | \$3,955 | 61% | 0.6 |
| PPL | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | New | motor | 296,314 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.8 |
| PPL | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | New | motor | 296,314 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.8 |
| PPL | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | New | motor | 296,314 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.8 |
| PPL | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | New | motor | 296,314 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.9 |
| PPL | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | ROB | motor | 296,314 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.8 |
| PPL | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | ROB | motor | 296,314 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.8 |
| PPL | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | ROB | motor | 296,314 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.8 |
| PPL | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | ROB | motor | 296,314 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.9 |
| PPL | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Grocery | Motors | ROB | motor | 296,314 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.8 |
| PPL | ASD HVAC Fan | Std. HVAC Fan | Grocery | Motors | New | measure | 2,699 | 9.1% | 0.03 | 15 | \$49,801 | 85% | 0.0 |
| PPL | ASD HVAC Fan | Std. HVAC Fan | Grocery | Motors | ROB | measure | 2,699 | 9.1% | 0.03 | 15 | \$49,801 | 85% | 0.0 |
| PPL | Downsizing motor during retrofit | Larger hp standard motor | Grocery | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 21.3 |
| PPL | Downsizing motor during retrofit | Larger hp standard motor | Grocery | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 21.8 |
| PPL | Downsizing motor during retrofit | Larger hp standard motor | Grocery | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 22.4 |
| PPL | Downsizing motor during retrofit | Larger hp standard motor | Grocery | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 23.8 |
| PPL | Downsizing motor during retrofit | Larger hp standard motor | Grocery | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 23.4 |
| PPL | Downsizing motor during retrofit | Larger hp standard motor | Grocery | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 21.1 |
| PPL | Downsizing motor during retrofit | Larger hp standard motor | Grocery | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 21.9 |
| PPL | Downsizing motor during retrofit | Larger hp standard motor | Grocery | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 22.1 |
| PPL | Downsizing motor during retrofit | Larger hp standard motor | Grocery | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 23.8 |
| PPL | Downsizing motor during retrofit | Larger hp standard motor | Grocery | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 23.3 |
| PPL | Escalator Motor Controller | Constant power control | Grocery | Motors | New | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 22% | 6.0 |
| PPL | Escalator Motor Controller | Constant power control | Grocery | Motors | ROB | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 22% | 6.0 |
| PPL | Variable Speed Drive Control, 15HP | Existing Motors w/out VFD Drive | Grocery | Motors | Early | motor | 21,448 | 72% | 2.3 | 15 | \$791 | 86% | 13.1 |
| PPL | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VFD Drive | Grocery | Motors | New | motor | 20,968 | 72% | 2.2 | 15 | \$731 | 86% | 13.8 |
| PPL | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VFD Drive | Grocery | Motors | ROB | motor | 20,968 | 72% | 2.2 | 15 | \$731 | 86% | 13.8 |
| PPL | Variable Speed Drive Control, 40HP | Existing Motors w/out VSD Drive | Grocery | Motors | Early | motor | 161,433 | 71% | 16.8 | 15 | \$4,726 | 86% | 16.3 |
| PPL | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Grocery | Motors | New | motor | 159,546 | 72% | 16.8 | 15 | \$4,666 | 86% | 16.5 |
| PPL | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Grocery | Motors | ROB | motor | 159,546 | 72% | 16.8 | 15 | \$4,666 | 86% | 16.5 |
| PPL | Variable Speed Drive Control, 5HP | Existing Motors w/out VSD Drive | Grocery | Motors | Early | motor | 61,868 | 70% | 6.4 | 15 | \$2,303 | 86% | 12.7 |
| PPL | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VSD Drive | Grocery | Motors | New | motor | 60,537 | 72% | 6.4 | 15 | \$2,243 | 86% | 13.0 |
| PPL | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VSD Drive | Grocery | Motors | ROB | motor | 60,537 | 72% | 6.4 | 15 | \$2,243 | 86% | 13.0 |
| PPL | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Grocery | Motors | Early | motor | 3,452 | 32% | 0.1 | 15 | \$328 | 86% | 2.2 |
| PPL | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Grocery | Motors | New | motor | 3,452 | 32% | 0.1 | 15 | \$268 | 86% | 2.7 |
| PPL | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Grocery | Motors | ROB | motor | 3,452 | 32% | 0.1 | 15 | \$268 | 86% | 2.7 |
| PPL | VFD on Chilled Water Pump | Motor w/out VFD Drive | Grocery | Motors | Early | motor | 16,452 | 54% | 2.7 | 15 | \$2,903 | 86% | 2.3 |
| PPL | VFD on Chilled Water Pump | Motor w/out VFD Drive | Grocery | Motors | New | motor | 16,144 | 55% | 2.7 | 15 | \$2,843 | 86% | 2.4 |
| PPL | VFD on Chilled Water Pump | Motor w/out VFD Drive | Grocery | Motors | ROB | motor | 16,144 | 55% | 2.7 | 15 | \$2,843 | 86% | 2.4 |
| PPL | VFD on Condenser Water Pump | Motor w/out VFD Drive | Grocery | Motors | Early | motor | 16,379 | 32% | 3.2 | 15 | \$2,903 | 86% | 1.8 |
| PPL | VFD on Condenser Water Pump | Motor w/out VFD Drive | Grocery | Motors | New | motor | 16,072 | 33% | 3.1 | 15 | \$2,843 | 86% | 1.8 |
| PPL | VFD on Condenser Water Pump | Motor w/out VFD Drive | Grocery | Motors | ROB | motor | 16,072 | 33% | 3.1 | 15 | \$2,843 | 86% | 1.8 |
| PPL | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Grocery | Motors | Early | motor | 29,557 | 56% | 0.00 | 15 | \$2,903 | 86% | 3.1 |
| PPL | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Grocery | Motors | New | motor | 29,004 | 57% | 0.00 | 15 | \$2,843 | 86% | 3.2 |
| PPL | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Grocery | Motors | ROB | motor | 29,004 | 57% | 0.00 | 15 | \$2,843 | 86% | 3.2 |
| PPL | VFD on HVAC Fan | Motor w/out VFD | Grocery | Motors | Early | motor | 16,452 | 70% | 3.4 | 15 | \$2,903 | 86% | 3.1 |
| PPL | VFD on HVAC Fan | Motor w/out VFD | Grocery | Motors | New | motor | 16,144 | 72% | 3.3 | 15 | \$2,843 | 86% | 3.1 |
| PPL | VFD on HVAC Fan | Motor w/out VFD | Grocery | Motors | ROB | motor | 16,144 | 72% | 3.3 | 15 | \$2,843 | 86% | 3.1 |
| PPL | Variable Speed Drives on Process Equipment | Constant speed control | Grocery | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 10.4 |
| PPL | Variable Speed Drives on Process Equipment | Constant speed control | Grocery | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 10.4 |
| PPL | Auto Off Time Switch | Lighting w/ No Controls | Grocery | Other Int. Lighting | Existing | building | 12,075 | 24% | 0.2 | 8 | \$296 | 13% | 3.5 |
| PPL | Auto Off Time Switch | Lighting w/ No Controls | Grocery | Other Int. Lighting | New | building | 12,075 | 7.0% | 0.07 | 8 | \$296 | 0% | 1.0 |
| PPL | Central Lighting Control System | Lighting w/ No Controls | Grocery | Other Int. Lighting | Existing | building | 12,075 | 38% | 0.4 | 8 | \$296 | 13% | 5.6 |
| PPL | Central Lighting Control System | Lighting w/ No Controls | Grocery | Other Int. Lighting | New | building | 12,075 | 14% | 0.1 | 8 | \$296 | 13% | 2.1 |
| PPL | Cold Cathode Screw-In Bulb | 40W Incandescent Bulb | Grocery | Other Int. Lighting | Early | lamp | 382 | 87% | 0.06 | 4 | \$33 | 14% | 2.2 |
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Grocery | Other Int. Lighting | Early | lamp | 274 | 81% | 0.04 | 4 | \$33 | 11% | 1.5 |
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Grocery | Other Int. Lighting | New | lamp | 208 | 81% | 0.03 | 4 | \$24 | 14% | 1.5 |
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Grocery | Other Int. Lighting | New | lamp | 208 | 81% | 0.03 | 4 | \$25 | 14% | 1.5 |
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Grocery | Other Int. Lighting | New | lamp | 208 | 81% | 0.03 | 4 | \$24 | 11% | 1.5 |
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Grocery | Other Int. Lighting | ROB | lamp | 274 | 81% | 0.04 | 4 | \$24 | 14% | 2.0 |
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Grocery | Other Int. Lighting | ROB | lamp | 274 | 81% | 0.04 | 4 | \$25 | 14% | 1.9 |
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Grocery | Other Int. Lighting | ROB | lamp | 274 | 81% | 0.04 | 4 | \$24 | 11% | 2.0 |
| PPL | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Grocery | Other Int. Lighting | Early | lamp | 382 | 75% | 0.05 | 2 | \$73 | 39% | 0.4 |
| PPL | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Grocery | Other Int. Lighting | New | lamp | 416 | 65% | 0.05 | 13 | \$29 | 46% | 5.7 |
| PPL | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Grocery | Other Int. Lighting | New | lamp | 208 | 65% | 0.02 | 2 | \$29 | 46% | 0.5 |
| PPL | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Grocery | Other Int. Lighting | ROB | lamp | 547 | 65% | 0.06 | 13 | \$29 | 39% | 7.5 |
| PPL | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Grocery | Other Int. Lighting | ROB | lamp | 274 | 65% | 0.03 | 2 | \$29 | 39% | 0.7 |
| PPL | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Grocery | Other Int. Lighting | Early | lamp | 382 | 75% | 0.05 | 2 | \$3.6 | 24% | 9.0 |
| PPL | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Grocery | Other Int. Lighting | New | lamp | 208 | 65% | 0.02 | 2 | \$1.8 | 24% | 8.7 |
| PPL | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Grocery | Other Int. Lighting | ROB | lamp | 274 | 65% | 0.03 | 2 | \$1.8 | 24% | 11.4 |
| PPL | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Grocery | Other Int. Lighting | ROB | lamp | 274 | 65% | 0.03 | 2 | \$1.8 | 24% | 11.4 |
| PPL | Exit Sign Retrofit: CFL replacing Incandescent | One 23W Single Sided Incandescent Exit Sign | Grocery | Other Int. Lighting | Early | exit sign | 134 | 42% | 0.01 | 15 | \$78 | 22% | 0.5 |
| PPL | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Grocery | Other Int. Lighting | New | building | 12,075 | 10% | 0.1 | 15 | \$69,961 | 32% | 0.0 |
| PPL | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Grocery | Other Int. Lighting | New | building | 12,075 | 15% | 0.2 | 15 | \$174,902 | 32% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|---|---------|---------------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Grocery | Other Int. Lighting | New | building | 12,075 | 30% | 0.3 | 15 | \$250,693 | 32% | 0.0 |
| PPL | Indoor Daylight Sensors | Lighting w/ No Controls | Grocery | Other Int. Lighting | Existing | building | 12,075 | 28% | 0.3 | 8 | \$1,459 | 13% | 0.8 |
| PPL | Indoor Daylight Sensors | Lighting w/ No Controls | Grocery | Other Int. Lighting | New | building | 12,075 | 4.1% | 0.04 | 8 | \$1,459 | 0% | 0.1 |
| PPL | LED Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Grocery | Other Int. Lighting | Early | sign | 153 | 87% | 0.02 | 15 | \$78 | 16% | 1.1 |
| PPL | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Grocery | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 2.0 |
| PPL | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Grocery | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 2.0 |
| PPL | LED Task Lighting/Screw-In | 1 15W CFL bulb | Grocery | Other Int. Lighting | Early | lamp | 115 | 33% | 0.01 | 3 | \$9.6 | 24% | 1.0 |
| PPL | LED Task Lighting/Screw-In | 1 60W Incandescent Bulb | Grocery | Other Int. Lighting | Early | lamp | 460 | 83% | 0.06 | 3 | \$9.6 | 24% | 9.8 |
| PPL | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Grocery | Other Int. Lighting | New | lamp | 251 | 77% | 0.03 | 3 | \$7.9 | 24% | 5.9 |
| PPL | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Grocery | Other Int. Lighting | New | lamp | 251 | 77% | 0.03 | 3 | \$7.9 | 24% | 5.9 |
| PPL | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Grocery | Other Int. Lighting | ROB | lamp | 330 | 77% | 0.04 | 3 | \$7.9 | 24% | 7.8 |
| PPL | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Grocery | Other Int. Lighting | ROB | lamp | 330 | 77% | 0.04 | 3 | \$7.9 | 24% | 7.8 |
| PPL | Occupancy Sensor | Lighting w/ No Controls | Grocery | Other Int. Lighting | Existing | building | 12,075 | 24% | 0.2 | 8 | \$447 | 12% | 2.3 |
| PPL | Occupancy Sensor | Lighting w/ No Controls | Grocery | Other Int. Lighting | New | building | 12,075 | 7.0% | 0.07 | 8 | \$447 | 0% | 0.7 |
| PPL | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Grocery | Other Int. Lighting | Existing | building | 12,075 | 28% | 0.3 | 8 | \$1,459 | 12% | 0.8 |
| PPL | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Grocery | Other Int. Lighting | New | building | 12,075 | 4.1% | 0.04 | 8 | \$1,459 | 0% | 0.1 |
| PPL | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Grocery | Other Int. Lighting | Early | exit sign | 134 | 100% | 0.02 | 15 | \$203 | 26% | 0.4 |
| PPL | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Grocery | Other Int. Lighting | New | exit sign | 77 | 100% | 0.01 | 15 | \$148 | 31% | 0.3 |
| PPL | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Grocery | Other Int. Lighting | ROB | exit sign | 77 | 100% | 0.01 | 15 | \$148 | 26% | 0.3 |
| PPL | Time Clock Control | Lighting w/ No Controls | Grocery | Other Int. Lighting | Existing | building | 12,075 | 28% | 0.3 | 8 | \$296 | 13% | 4.1 |
| PPL | Time Clock Control | Lighting w/ No Controls | Grocery | Other Int. Lighting | New | building | 12,075 | 4.1% | 0.04 | 8 | \$296 | 0% | 0.6 |
| PPL | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Grocery | Plug Load | Existing | building | 2,913 | 46% | 0.5 | 5 | \$189 | 4% | 2.2 |
| PPL | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Grocery | Plug Load | New | building | 1,422 | 46% | 0.5 | 5 | \$189 | 4% | 1.5 |
| PPL | Data Center - Server/Storage Consolidation | No Consolidation | Grocery | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PPL | Data Center - Server/Storage Consolidation | No Consolidation | Grocery | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PPL | Data Center - Server/Storage Virtualization | No Virtualization | Grocery | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PPL | Data Center - Server/Storage Virtualization | No Virtualization | Grocery | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PPL | Energy Star - Scanners | Std Scanner | Grocery | Plug Load | New | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| PPL | Energy Star - Scanners | Std Scanner | Grocery | Plug Load | ROB | measure | 68 | 3.8% | 0.04 | 4 | \$130 | 7% | 0.1 |
| PPL | Energy Star Battery Charging System (for small cordless products) | Std. Battery Charging System | Grocery | Plug Load | ROB | measure | 593 | 2.3% | 0.10 | 5 | \$65 | 4% | 0.5 |
| PPL | Energy Star Dishwasher | Existing Dishwasher units | Grocery | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,580 | 16% | 1.0 |
| PPL | Energy Star Dishwasher | Standard Dishwasher unit | Grocery | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 16% | 3.3 |
| PPL | Energy Star Dishwasher | Standard Dishwasher unit | Grocery | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 16% | 3.2 |
| PPL | Energy Star External Power Adapter | Std. Power Adapter | Grocery | Plug Load | New | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| PPL | Energy Star External Power Adapter | Std. Power Adapter | Grocery | Plug Load | ROB | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| PPL | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Grocery | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 17% | 0.1 |
| PPL | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Grocery | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 1.6 |
| PPL | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Grocery | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 1.6 |
| PPL | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Grocery | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 9% | 0.8 |
| PPL | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Grocery | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.6 |
| PPL | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Grocery | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.6 |
| PPL | ENERGY STAR® Copiers | 10% Less Efficient Copier | Grocery | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 18% | 0.0 |
| PPL | ENERGY STAR® Copiers | One Conventional Copier | Grocery | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| PPL | ENERGY STAR® Copiers | One Conventional Copier | Grocery | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| PPL | ENERGY STAR® desktop | Standard computer | Grocery | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 69% | 0.1 |
| PPL | ENERGY STAR® desktop | Standard computer | Grocery | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.2 |
| PPL | ENERGY STAR® desktop | Standard computer | Grocery | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.2 |
| PPL | ENERGY STAR® Fax | 10% Less Efficient Fax | Grocery | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 15% | 0.0 |
| PPL | ENERGY STAR® Fax | One Conventional Fax | Grocery | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| PPL | ENERGY STAR® Fax | One Conventional Fax | Grocery | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| PPL | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Grocery | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 70% | 0.0 |
| PPL | ENERGY STAR® Monitors | One Conventional Monitor | Grocery | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| PPL | ENERGY STAR® Monitors | One Conventional Monitor | Grocery | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| PPL | ENERGY STAR® Printers | 10% Less Efficient Printer | Grocery | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 44% | 0.0 |
| PPL | ENERGY STAR® Printers | One Conventional Printer | Grocery | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| PPL | ENERGY STAR® Printers | One Conventional Printer | Grocery | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| PPL | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Grocery | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 43% | 0.1 |
| PPL | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Grocery | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.8 |
| PPL | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Grocery | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.8 |
| PPL | ENERGY STAR® Televisions | 10% Less Efficient Television | Grocery | Plug Load | Early | Unit | 505 | 38% | 0.03 | 6 | \$672 | 40% | 0.1 |
| PPL | ENERGY STAR® Televisions | One Conventional Television | Grocery | Plug Load | New | Unit | 459 | 32% | 0.02 | 6 | \$206 | 40% | 0.2 |
| PPL | ENERGY STAR® Televisions | One Conventional Television | Grocery | Plug Load | ROB | Unit | 459 | 32% | 0.02 | 6 | \$206 | 40% | 0.2 |
| PPL | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Grocery | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 24% | 0.3 |
| PPL | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Grocery | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.6 |
| PPL | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Grocery | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.6 |
| PPL | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Grocery | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|--|---------|---------------|----------|-------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Grocery | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.2 |
| PPL | Network PC Power Management | No PC Power Management | Grocery | Plug Load | Existing | computer | 425 | 33% | 0.01 | 5 | \$30 | 38% | 1.0 |
| PPL | Network PC Power Management | No PC Power Management | Grocery | Plug Load | New | computer | 425 | 33% | 0.01 | 5 | \$30 | 38% | 1.0 |
| PPL | Smart Strip Plug Outlets | Standard plug strip/outlet | Grocery | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.4 |
| PPL | Smart Strip Plug Outlets | Standard plug strip/outlet | Grocery | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.4 |
| PPL | Smart Strip Plug Outlets | Standard plug strip/outlet | Grocery | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PPL | Smart Strip Plug Outlets | Standard plug strip/outlet | Grocery | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PPL | Smart Strip Plug Outlets | Standard plug strip/outlet | Grocery | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PPL | Smart Strip Plug Outlets | Standard plug strip/outlet | Grocery | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PPL | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Grocery | Plug Load | Existing | building | 2,913 | 46% | 0.5 | 5 | \$180 | 3% | 2.3 |
| PPL | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Grocery | Plug Load | New | building | 1,422 | 46% | 0.5 | 5 | \$180 | 3% | 1.5 |
| PPL | Air curtain technology | Strip plastic curtain | Grocery | Refrigeration | New | building | 75,236 | 3.1% | 0.03 | 8 | \$132 | 35% | 5.5 |
| PPL | Air curtain technology | Strip plastic curtain | Grocery | Refrigeration | New | building | 40,188 | 3.1% | 0.03 | 8 | \$132 | 35% | 3.0 |
| PPL | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Grocery | Refrigeration | Existing | building | 90,283 | 0.7% | 0.01 | 12 | \$70 | 11% | 4.1 |
| PPL | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Grocery | Refrigeration | New | building | 90,283 | 0.7% | 0.01 | 12 | \$70 | 11% | 4.1 |
| PPL | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Grocery | Refrigeration | Existing | building | 90,283 | 1.5% | 0.02 | 12 | \$70 | 11% | 8.6 |
| PPL | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Grocery | Refrigeration | New | building | 90,283 | 1.5% | 0.02 | 12 | \$70 | 11% | 8.6 |
| PPL | Auto Closer on Refrigerator Door | Door w/out Autocloser | Grocery | Refrigeration | Existing | building | 75,236 | 1.4% | 0.01 | 8 | \$817 | 40% | 0.4 |
| PPL | Auto Closer on Refrigerator Door | Door w/out Autocloser | Grocery | Refrigeration | Existing | building | 40,188 | 1.1% | 0.01 | 8 | \$1,208 | 40% | 0.1 |
| PPL | Auto Closer on Refrigerator Door | Door w/out Autocloser | Grocery | Refrigeration | New | building | 75,236 | 1.4% | 0.01 | 8 | \$817 | 40% | 0.4 |
| PPL | Auto Closer on Refrigerator Door | Door w/out Autocloser | Grocery | Refrigeration | New | building | 40,188 | 1.1% | 0.01 | 8 | \$1,208 | 40% | 0.1 |
| PPL | Demand Hot Gas Defrost | Base Refrigeration System | Grocery | Refrigeration | Existing | measure | 90,283 | 3.0% | 0.03 | 10 | \$1,314 | 83% | 0.8 |
| PPL | Demand Hot Gas Defrost | Base Refrigeration System | Grocery | Refrigeration | New | measure | 90,283 | 3.0% | 0.03 | 10 | \$1,314 | 79% | 0.8 |
| PPL | Door Gasket- Freezer | Door w/out Gasket | Grocery | Refrigeration | Existing | building | 75,236 | 0.9% | 0.01 | 4 | \$84 | 29% | 1.4 |
| PPL | Door Gasket- Freezer | Door w/out Gasket | Grocery | Refrigeration | New | building | 75,236 | 0.9% | 0.01 | 4 | \$84 | 29% | 1.4 |
| PPL | Door Gasket- Refrigerator | Door w/out Gasket | Grocery | Refrigeration | Existing | building | 40,188 | 0.4% | 0.00 | 4 | \$167 | 45% | 0.2 |
| PPL | Door Gasket- Refrigerator | Door w/out Gasket | Grocery | Refrigeration | New | building | 40,188 | 0.4% | 0.00 | 4 | \$167 | 45% | 0.2 |
| PPL | Economizer for Walk-in Coolers | No Economizer | Grocery | Refrigeration | Early | measure | 213,168 | 12% | 3.6 | 10 | \$2,237 | 72% | 5.1 |
| PPL | Economizer for Walk-in Coolers | No Economizer | Grocery | Refrigeration | Early | measure | 213,168 | 12% | 3.6 | 10 | \$2,237 | 72% | 5.1 |
| PPL | Economizer for Walk-in Coolers | No Economizer | Grocery | Refrigeration | Early | measure | 213,168 | 12% | 3.6 | 10 | \$2,237 | 72% | 5.1 |
| PPL | Economizer for Walk-in Coolers | No Economizer | Grocery | Refrigeration | New | measure | 213,168 | 12% | 3.6 | 10 | \$176 | 72% | 64.6 |
| PPL | Economizer for Walk-in Coolers | No Economizer | Grocery | Refrigeration | New | measure | 213,168 | 12% | 3.6 | 10 | \$176 | 72% | 64.6 |
| PPL | Economizer for Walk-in Coolers | No Economizer | Grocery | Refrigeration | New | measure | 213,168 | 12% | 3.6 | 10 | \$176 | 72% | 64.6 |
| PPL | Economizer for Walk-in Coolers | No Economizer | Grocery | Refrigeration | ROB | measure | 213,168 | 12% | 3.6 | 10 | \$176 | 72% | 64.6 |
| PPL | Economizer for Walk-in Coolers | No Economizer | Grocery | Refrigeration | ROB | measure | 213,168 | 12% | 3.6 | 10 | \$176 | 72% | 64.6 |
| PPL | Economizer for Walk-in Coolers | No Economizer | Grocery | Refrigeration | ROB | measure | 213,168 | 12% | 3.6 | 10 | \$176 | 72% | 64.6 |
| PPL | eCube | Refrigeration unit w/out eCube | Grocery | Refrigeration | Existing | building | 40,188 | 15% | 0.2 | 15 | \$637 | 57% | 5.2 |
| PPL | eCube | Refrigeration unit w/out eCube | Grocery | Refrigeration | New | building | 40,188 | 15% | 0.2 | 15 | \$637 | 57% | 5.2 |
| PPL | Efficient compressor motor | Base Refrigeration System - Grocery | Grocery | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 42% | 2.5 |
| PPL | Efficient compressor motor | Base Refrigeration System - Grocery | Grocery | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 42% | 2.5 |
| PPL | Efficient compressor motor | Base Refrigeration System - Grocery | Grocery | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 42% | 2.5 |
| PPL | Efficient compressor motor | Base Refrigeration System - Grocery | Grocery | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 42% | 2.5 |
| PPL | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Grocery | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.6 |
| PPL | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Grocery | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| PPL | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Grocery | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| PPL | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Grocery | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.3 |
| PPL | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Grocery | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.7 |
| PPL | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Grocery | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.7 |
| PPL | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Grocery | Refrigeration | Existing | building | 40,188 | 0.2% | 0.00 | 10 | \$369 | 77% | 0.1 |
| PPL | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Grocery | Refrigeration | New | building | 40,188 | 0.2% | 0.00 | 10 | \$369 | 77% | 0.1 |
| PPL | Floating head pressure controller | System w/out FHPC | Grocery | Refrigeration | Existing | building | 75,236 | 0.7% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| PPL | Floating head pressure controller | System w/out FHPC | Grocery | Refrigeration | Existing | building | 40,188 | 0.3% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| PPL | Floating head pressure controller | System w/out FHPC | Grocery | Refrigeration | Existing | building | 90,283 | 0.3% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| PPL | Floating head pressure controller | System w/out FHPC | Grocery | Refrigeration | New | building | 75,236 | 0.7% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| PPL | Floating head pressure controller | System w/out FHPC | Grocery | Refrigeration | New | building | 40,188 | 0.3% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| PPL | Floating head pressure controller | System w/out FHPC | Grocery | Refrigeration | New | building | 90,283 | 0.3% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| PPL | High Efficiency Commercial Freezer | Std. Commercial Freezer | Grocery | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 79% | 0.3 |
| PPL | High Efficiency Commercial Freezer | Std. Commercial Freezer | Grocery | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 79% | 3.9 |
| PPL | High Efficiency Commercial Freezer | Std. Commercial Freezer | Grocery | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 79% | 3.9 |
| PPL | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Grocery | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 79% | 0.1 |
| PPL | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Grocery | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 79% | 0.9 |
| PPL | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Grocery | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 79% | 0.9 |
| PPL | High Efficiency Ice Maker | Existing Standard Efficiency Ice Maker in Pennsylvania | Grocery | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 69% | 0.2 |
| PPL | High Efficiency Ice Maker | Standard code minimum Ice Maker | Grocery | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 69% | 0.2 |
| PPL | High Efficiency Ice Maker | Standard code minimum Ice Maker | Grocery | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 69% | 0.2 |
| PPL | High Efficiency Ice Making Head | Standard Ice Making Head | Grocery | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.7 |
| PPL | High Efficiency Ice Making Head | Standard Ice Making Head | Grocery | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.7 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|--|---------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | High R-Value Glass Doors | Base Refrigeration System - Grocery | Grocery | Refrigeration | Existing | building | 90,283 | 0.7% | 0.01 | 10 | \$314 | 90% | 0.8 |
| PPL | High R-Value Glass Doors | Base Refrigeration System - Grocery | Grocery | Refrigeration | New | building | 90,283 | 0.7% | 0.01 | 10 | \$314 | 90% | 0.8 |
| PPL | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Grocery | Refrigeration | Early | Fixture | 373 | 56% | 0.03 | 8 | \$448 | 89% | 0.2 |
| PPL | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Grocery | Refrigeration | New | Fixture | 291 | 44% | 0.02 | 8 | \$139 | 89% | 0.3 |
| PPL | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Grocery | Refrigeration | ROB | Fixture | 291 | 44% | 0.02 | 8 | \$139 | 89% | 0.3 |
| PPL | No-heat glass doors | Standard low-temp reach-in | Grocery | Refrigeration | Existing | building | 90,283 | 20% | 0.2 | 10 | \$28,746 | 8% | 0.2 |
| PPL | No-heat glass doors | Standard low-temp reach-in | Grocery | Refrigeration | New | building | 90,283 | 20% | 0.2 | 10 | \$28,746 | 8% | 0.2 |
| PPL | Quick acting freezer doors | Std. Freezer Doors | Grocery | Refrigeration | Existing | building | 75,236 | 13% | 0.1 | 10 | \$16,915 | 56% | 0.2 |
| PPL | Quick acting freezer doors | Std. Freezer Doors | Grocery | Refrigeration | New | building | 75,236 | 13% | 0.1 | 10 | \$16,915 | 56% | 0.2 |
| PPL | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Grocery | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 29% | 0.4 |
| PPL | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Grocery | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 29% | 1.6 |
| PPL | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Grocery | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 29% | 1.6 |
| PPL | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 29% | 1.6 |
| PPL | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 29% | 2.8 |
| PPL | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 29% | 2.8 |
| PPL | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 29% | 1.6 |
| PPL | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 29% | 3.8 |
| PPL | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 29% | 3.8 |
| PPL | Refrigeration Commissioning | Non-commissioned refrigeration system | Grocery | Refrigeration | Existing | building | 213,168 | 9.5% | 0.10 | 3 | \$35,188 | 85% | 0.1 |
| PPL | Refrigeration Commissioning | Non-commissioned refrigeration system | Grocery | Refrigeration | New | building | 213,168 | 9.5% | 0.10 | 3 | \$35,188 | 85% | 0.1 |
| PPL | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Grocery | Refrigeration | Existing | building | 75,236 | 1.8% | 0.02 | 4 | \$102 | 22% | 2.2 |
| PPL | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Grocery | Refrigeration | Existing | building | 40,188 | 0.5% | 0.01 | 4 | \$203 | 22% | 0.2 |
| PPL | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Grocery | Refrigeration | New | building | 75,236 | 1.8% | 0.02 | 4 | \$102 | 22% | 2.2 |
| PPL | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Grocery | Refrigeration | New | building | 40,188 | 0.5% | 0.01 | 4 | \$203 | 22% | 0.2 |
| PPL | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Grocery | Refrigeration | Existing | building | 75,236 | 0.4% | 0.00 | 11 | \$167 | 77% | 0.8 |
| PPL | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Grocery | Refrigeration | New | building | 75,236 | 0.4% | 0.00 | 11 | \$167 | 77% | 0.7 |
| PPL | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Grocery | Refrigeration | Existing | building | 40,188 | 0.3% | 0.00 | 11 | \$167 | 77% | 0.3 |
| PPL | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Grocery | Refrigeration | New | building | 40,188 | 0.3% | 0.00 | 11 | \$167 | 77% | 0.3 |
| PPL | Vendor Miser | No Vendor Miser | Grocery | Refrigeration | Existing | machine | 7,461 | 0.5% | 0.00 | 8 | \$33 | 7% | 0.4 |
| PPL | Vertical Night Covers | Display cases w/out night covers-High Temperature | Grocery | Refrigeration | Existing | building | 90,283 | 0.1% | 0.00 | 5 | \$242 | 9% | 0.1 |
| PPL | Vertical Night Covers | Display cases w/out night covers-High Temperature | Grocery | Refrigeration | New | building | 90,283 | 0.1% | 0.00 | 5 | \$242 | 9% | 0.1 |
| PPL | VSD Controlled Compressor | Compressor w/out VSD | Grocery | Refrigeration | Early | Refrigerator | 7,487 | 14% | 0.1 | 15 | \$731 | 73% | 0.9 |
| PPL | VSD Controlled Compressor | Compressor w/out VSD | Grocery | Refrigeration | New | Refrigerator | 7,487 | 14% | 0.1 | 15 | \$731 | 73% | 0.9 |
| PPL | VSD Controlled Compressor | Compressor w/out VSD | Grocery | Refrigeration | ROB | Refrigerator | 7,487 | 14% | 0.1 | 15 | \$731 | 73% | 0.9 |
| PPL | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Grocery | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$269 | 23% | 0.9 |
| PPL | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Grocery | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$269 | 23% | 0.8 |
| PPL | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Grocery | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 23% | 3.0 |
| PPL | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Grocery | Refrigeration | New | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 23% | 2.9 |
| PPL | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Grocery | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 23% | 3.0 |
| PPL | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Grocery | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 23% | 2.9 |
| PPL | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 23% | 2.3 |
| PPL | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 23% | 2.2 |
| PPL | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$151 | 23% | 4.1 |
| PPL | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$151 | 23% | 3.9 |
| PPL | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$151 | 23% | 4.1 |
| PPL | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Grocery | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$151 | 23% | 3.9 |
| PPL | Adding reflective roof treatment | Std color roof | Grocery | Space Heating | Existing | building | 16,417 | 7.1% | 0.07 | 6 | \$25,177 | 82% | 0.0 |
| PPL | Adding reflective roof treatment | Std color roof | Grocery | Space Heating | New | building | 16,417 | 7.1% | 0.07 | 6 | \$25,177 | 82% | 0.0 |
| PPL | Adding window shade film | No shade film | Grocery | Space Heating | Existing | building | 16,417 | 1.3% | 0.4 | 10 | \$200 | 13% | 1.4 |
| PPL | Adding window shade film | No shade film | Grocery | Space Heating | New | building | 16,417 | 1.3% | 0.4 | 10 | \$200 | 13% | 1.4 |
| PPL | Adding window shade screen | No shade screen | Grocery | Space Heating | Existing | building | 16,417 | 1.1% | 0.01 | 10 | \$77 | 13% | 1.0 |
| PPL | Adding window shade screen | No shade screen | Grocery | Space Heating | New | building | 16,417 | 1.1% | 0.01 | 10 | \$77 | 13% | 1.0 |
| PPL | Automated control system | Manual Controls | Grocery | Space Heating | Existing | building | 16,417 | 17% | 0.2 | 15 | \$17,972 | 51% | 0.1 |
| PPL | Automated control system | Manual Controls | Grocery | Space Heating | New | building | 16,417 | 17% | 0.2 | 15 | \$17,972 | 94% | 0.1 |
| PPL | Ceiling Insulations (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Grocery | Space Heating | Existing | building | 16,417 | 9.8% | 0.10 | 15 | \$33,930 | 71% | 0.0 |
| PPL | Ceiling Insulations (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Grocery | Space Heating | New | building | 16,417 | 3.3% | 0.03 | 15 | \$32,251 | 94% | 0.0 |
| PPL | Duct Insulation, Add R8 | No Insulation | Grocery | Space Heating | Existing | building | 16,417 | 1.4% | 0.04 | 15 | \$130 | 20% | 1.2 |
| PPL | Duct Insulation, Add R8 | No Insulation | Grocery | Space Heating | New | building | 16,417 | 1.4% | 0.04 | 15 | \$130 | 10% | 1.2 |
| PPL | Efficient Unit Heating System | Existing Unit Heaters in PA | Grocery | Space Heating | Early | heater | 24,206 | 23% | 0.04 | 15 | \$3,289 | 83% | 0.9 |
| PPL | Efficient Unit Heating System | Std. Unit Heater | Grocery | Space Heating | New | heater | 21,483 | 13% | 0.02 | 15 | \$1,985 | 83% | 0.8 |
| PPL | Efficient Unit Heating System | Std. Unit Heater | Grocery | Space Heating | ROB | heater | 21,483 | 13% | 0.02 | 15 | \$1,985 | 83% | 0.8 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Grocery | Space Heating | Existing | building | 16,417 | 7.1% | 0.07 | 15 | \$72,821 | 25% | 0.0 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Grocery | Space Heating | New | building | 16,417 | 7.1% | 0.07 | 15 | \$72,821 | 35% | 0.0 |
| PPL | Hi Eff HVAC System Design | No HVAC Design | Grocery | Space Heating | New | building | 16,417 | 9.3% | 0.09 | 10 | \$943,864 | 51% | 0.0 |
| PPL | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Grocery | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$77 | 32% | 1.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|--|---------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Grocery | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$77 | 32% | 1.0 |
| PPL | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Grocery | Space Heating | Existing | building | 16,417 | 1.1% | 0.01 | 10 | \$7,735 | 81% | 0.0 |
| PPL | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Grocery | Space Heating | New | building | 16,417 | 1.1% | 0.01 | 10 | \$7,735 | 81% | 0.0 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Grocery | Space Heating | Existing | building | 16,417 | 3.6% | 0.04 | 11 | \$286 | 49% | 0.9 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Grocery | Space Heating | New | building | 16,417 | 3.1% | 0.03 | 11 | \$146 | 49% | 1.6 |
| PPL | Re-Commissioning (Existing Construction) | No Re-Commissioning | Grocery | Space Heating | Existing | building | 16,417 | 16% | 0.2 | 5 | \$19,254 | 86% | 0.0 |
| PPL | VFD on Cooling Tower Fan | Motor w/out VFD | Grocery | Space Heating | Early | motor | 16,452 | 70% | 3.4 | 15 | \$2,843 | 88% | 3.1 |
| PPL | VFD on Cooling Tower Fan | Motor w/out VFD | Grocery | Space Heating | New | motor | 16,144 | 72% | 3.3 | 15 | \$2,843 | 88% | 3.1 |
| PPL | VFD on Cooling Tower Fan | Motor w/out VFD | Grocery | Space Heating | ROB | motor | 16,144 | 72% | 3.3 | 15 | \$2,843 | 88% | 3.1 |
| PPL | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Grocery | Space Heating | Existing | building | 16,417 | 19% | 0.2 | 15 | \$7,224 | 26% | 0.3 |
| PPL | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Grocery | Space Heating | New | building | 16,417 | 0.5% | 0.01 | 15 | \$5,541 | 94% | 0.0 |
| PPL | Green LED Traffic Light | Green Incandescent Traffic Light | Grocery | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 0% | 1.2 |
| PPL | Green LED Traffic Light | Green Incandescent Traffic Light | Grocery | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| PPL | Green LED Traffic Light | Green Incandescent Traffic Light | Grocery | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| PPL | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Grocery | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 0% | 3.0 |
| PPL | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Grocery | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| PPL | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Grocery | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| PPL | Induction Street Lighting | One 100W HPS Street Light Fixture | Grocery | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 0% | 0.3 |
| PPL | Induction Street Lighting | One 100W HPS Street Light Fixture | Grocery | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.7 |
| PPL | Induction Street Lighting | One 100W HPS Street Light Fixture | Grocery | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.7 |
| PPL | LED Street Lighting | One 100W HPS Street Light | Grocery | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 0% | 0.2 |
| PPL | LED Street Lighting | One 100W HPS Street Light | Grocery | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| PPL | LED Street Lighting | One 100W HPS Street Light | Grocery | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| PPL | Red LED Traffic Light | One Red Incandescent Traffic Light | Grocery | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 0% | 1.6 |
| PPL | Red LED Traffic Light | One Red Incandescent Traffic Light | Grocery | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| PPL | Red LED Traffic Light | One Red Incandescent Traffic Light | Grocery | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| PPL | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Grocery | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 0% | 0.1 |
| PPL | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Grocery | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| PPL | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Grocery | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| PPL | Demand controlled Circulating Systems | Constant circulation system | Grocery | Water Heating | Existing | building | 1,417 | 20% | 0.2 | 15 | \$257 | 59% | 1.2 |
| PPL | Demand controlled Circulating Systems | Constant circulation system | Grocery | Water Heating | New | building | 1,417 | 20% | 0.2 | 15 | \$257 | 59% | 1.2 |
| PPL | Drainwater Heat Recovery Water Heater | No heat recovery | Grocery | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.9 |
| PPL | Drainwater Heat Recovery Water Heater | No heat recovery | Grocery | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.9 |
| PPL | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Grocery | Water Heating | Existing | building | 1,417 | 5.9% | 0.06 | 12 | \$28 | 85% | 2.7 |
| PPL | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Grocery | Water Heating | New | building | 1,417 | 5.9% | 0.06 | 12 | \$8.0 | 85% | 9.4 |
| PPL | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Grocery | Water Heating | Early | water heater | 86,559 | 66% | 10.1 | 10 | \$5,176 | 68% | 5.4 |
| PPL | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Grocery | Water Heating | Early | water heater | 86,559 | 66% | 10.1 | 10 | \$5,176 | 68% | 5.4 |
| PPL | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Grocery | Water Heating | New | water heater | 86,559 | 66% | 10.1 | 10 | \$3,562 | 68% | 7.8 |
| PPL | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Grocery | Water Heating | New | water heater | 86,559 | 66% | 10.1 | 10 | \$3,562 | 68% | 7.8 |
| PPL | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Grocery | Water Heating | ROB | water heater | 84,155 | 65% | 9.7 | 10 | \$3,562 | 68% | 7.5 |
| PPL | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Grocery | Water Heating | ROB | water heater | 84,155 | 65% | 9.7 | 10 | \$3,562 | 68% | 7.5 |
| PPL | Heat Recovery Unit | Base Water Heating | Grocery | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.6 |
| PPL | Heat Recovery Unit | Base Water Heating | Grocery | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.6 |
| PPL | Heat Trap | No Heat Trap | Grocery | Water Heating | Existing | building | 1,417 | 22% | 0.2 | 11 | \$9.7 | 50% | 27.2 |
| PPL | Heat Trap | No Heat Trap | Grocery | Water Heating | New | building | 1,417 | 22% | 0.2 | 11 | \$1.4 | 50% | 182.5 |
| PPL | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Grocery | Water Heating | Early | water heater | 86,559 | 5.9% | 0.9 | 15 | \$2,235 | 79% | 1.6 |
| PPL | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Grocery | Water Heating | Early | water heater | 86,559 | 5.9% | 0.9 | 15 | \$2,235 | 79% | 1.6 |
| PPL | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Grocery | Water Heating | New | water heater | 84,155 | 3.2% | 0.5 | 15 | \$921 | 79% | 2.1 |
| PPL | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Grocery | Water Heating | New | water heater | 84,155 | 3.2% | 0.5 | 15 | \$921 | 79% | 2.1 |
| PPL | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Grocery | Water Heating | ROB | water heater | 84,155 | 3.2% | 0.5 | 15 | \$921 | 79% | 2.1 |
| PPL | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Grocery | Water Heating | ROB | water heater | 84,155 | 3.2% | 0.5 | 15 | \$921 | 79% | 2.1 |
| PPL | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Grocery | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$646 | 81% | 28.2 |
| PPL | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Grocery | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 20.4 |
| PPL | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Grocery | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 20.4 |
| PPL | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Grocery | Water Heating | Existing | building | 1,417 | 4.3% | 0.04 | 13 | \$9.2 | 68% | 6.3 |
| PPL | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Grocery | Water Heating | New | building | 1,417 | 4.3% | 0.04 | 13 | \$9.2 | 0% | 6.3 |
| PPL | Hot Water Circulation Pump Time-Clock | Constant circulation system | Grocery | Water Heating | Existing | building | 1,417 | 5.3% | 0.05 | 10 | \$5.7 | 72% | 10.1 |
| PPL | Hot Water Circulation Pump Time-Clock | Constant circulation system | Grocery | Water Heating | New | building | 1,417 | 5.3% | 0.05 | 10 | \$5.7 | 72% | 10.1 |
| PPL | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Grocery | Water Heating | Existing | building | 1,302 | 0.1% | 0.00 | 7 | \$22 | 78% | 0.0 |
| PPL | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Grocery | Water Heating | New | building | 1,302 | 0.1% | 0.00 | 7 | \$0.5 | 78% | 1.7 |
| PPL | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Grocery | Water Heating | Existing | building | 1,417 | 13% | 0.1 | 5 | \$300 | 20% | 0.3 |
| PPL | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Grocery | Water Heating | New | building | 1,417 | 8.9% | 0.09 | 5 | \$194 | 20% | 0.3 |
| PPL | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Grocery | Water Heating | Existing | building | 1,417 | 6.5% | 0.07 | 9 | \$25 | 2% | 2.6 |
| PPL | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Grocery | Water Heating | New | building | 1,417 | 6.5% | 0.07 | 9 | \$6.0 | 2% | 10.8 |
| PPL | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Grocery | Water Heating | Early | water heater | 86,559 | 52% | 3.7 | 15 | \$20,280 | 32% | 1.4 |
| PPL | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Grocery | Water Heating | New | water heater | 84,155 | 51% | 3.5 | 15 | \$18,666 | 32% | 1.4 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|---|------------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Grocery | Water Heating | ROB | water heater | 84,155 | 51% | 3.5 | 15 | \$18,666 | 32% | 1.4 |
| PPL | Ultrasonic Faucet Control | Manual Faucet Control | Grocery | Water Heating | Existing | building | 1,417 | 3.0% | 0.03 | 10 | \$245 | 77% | 0.1 |
| PPL | Ultrasonic Faucet Control | Manual Faucet Control | Grocery | Water Heating | New | building | 1,417 | 3.1% | 0.03 | 10 | \$245 | 77% | 0.1 |
| PPL | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Grocery | Water Heating | Existing | building | 1,417 | 2.2% | 0.02 | 4 | \$28 | 83% | 0.4 |
| PPL | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Grocery | Water Heating | New | building | 1,417 | 2.3% | 0.02 | 4 | \$28 | 83% | 0.4 |
| PPL | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Healthcare | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.1 |
| PPL | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Healthcare | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.1 |
| PPL | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Healthcare | Cooking | Early | steamer | 51 | 46% | 0.00 | 12 | \$5,103 | 81% | 0.0 |
| PPL | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Healthcare | Cooking | New | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| PPL | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Healthcare | Cooking | ROB | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| PPL | Electric combination oven (Energy Star) | Standard Oven | Healthcare | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.9 |
| PPL | Electric combination oven (Energy Star) | Standard Oven | Healthcare | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.9 |
| PPL | Electric Convection Oven | Conventional convection oven w/ 65% efficiency | Healthcare | Cooking | Early | oven | 8,641 | 37% | 0.6 | 12 | \$4,169 | 81% | 0.4 |
| PPL | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Healthcare | Cooking | New | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.7 |
| PPL | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Healthcare | Cooking | ROB | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.7 |
| PPL | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Healthcare | Cooking | Early | fryer | 6,105 | 23% | 0.3 | 12 | \$9,291 | 86% | 0.1 |
| PPL | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Healthcare | Cooking | New | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| PPL | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Healthcare | Cooking | ROB | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| PPL | High Efficiency Griddle (ENERGY STAR) | Efficiency code minimum griddle (70% eff) | Healthcare | Cooking | Early | griddle | 11,317 | 65% | 1.4 | 12 | \$4,992 | 86% | 0.8 |
| PPL | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Healthcare | Cooking | New | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.2 |
| PPL | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Healthcare | Cooking | ROB | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.2 |
| PPL | High Efficiency Induction Cooking | Standard Cooking | Healthcare | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| PPL | High Efficiency Induction Cooking | Standard Cooking | Healthcare | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| PPL | Solid-state temperature controls | No Solid State Controls | Healthcare | Cooking | Existing | building | 15,424 | 3.6% | 0.04 | 12 | \$69 | 34% | 3.9 |
| PPL | Active chilled beam cooling | No Active Chilled beam cooling | Healthcare | Cooling Central | New | building | 10,216 | 5.3% | 0.05 | 15 | \$2,671 | 72% | 0.1 |
| PPL | Adding reflective roof treatment | Std color roof | Healthcare | Cooling Central | Existing | building | 10,753 | 7.0% | 0.07 | 6 | \$15,261 | 82% | 0.0 |
| PPL | Adding reflective roof treatment | Std color roof | Healthcare | Cooling Central | New | building | 10,753 | 7.0% | 0.07 | 6 | \$15,261 | 82% | 0.0 |
| PPL | Adding window shade film | No shade film | Healthcare | Cooling Central | Existing | building | 10,753 | 1.3% | 0.4 | 10 | \$131 | 12% | 1.9 |
| PPL | Adding window shade film | No shade film | Healthcare | Cooling Central | New | building | 10,753 | 1.3% | 0.4 | 10 | \$131 | 13% | 1.9 |
| PPL | Adding window shade screen | No shade screen | Healthcare | Cooling Central | Existing | building | 10,753 | 1.0% | 0.01 | 10 | \$51 | 13% | 0.9 |
| PPL | Adding window shade screen | No shade screen | Healthcare | Cooling Central | New | building | 10,753 | 1.1% | 0.01 | 10 | \$51 | 13% | 0.9 |
| PPL | Automated control system | Manual Controls | Healthcare | Cooling Central | Existing | building | 10,753 | 17% | 0.2 | 15 | \$11,773 | 51% | 0.1 |
| PPL | Automated control system | Manual Controls | Healthcare | Cooling Central | New | building | 10,753 | 17% | 0.2 | 15 | \$11,773 | 94% | 0.1 |
| PPL | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Healthcare | Cooling Central | Existing | building | 10,753 | 1.0% | 0.01 | 15 | \$20,566 | 71% | 0.0 |
| PPL | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Healthcare | Cooling Central | New | building | 10,753 | 0.3% | 0.00 | 15 | \$19,549 | 94% | 0.0 |
| PPL | Chilled Water Reset, Optimizer System for Chiller(s) | No Chilled Water Reset | Healthcare | Cooling Central | Existing | building | 10,753 | 3.7% | 0.04 | 10 | \$49 | 69% | 3.4 |
| PPL | Chiller Tune Up Diagnostics | No Chiller Tune Up | Healthcare | Cooling Central | Existing | building | 10,753 | 2.3% | 0.02 | 10 | \$11 | 59% | 9.4 |
| PPL | Chiller Tuneup/Diagnostics | No tuneup | Healthcare | Cooling Central | Existing | building | 10,753 | 8.0% | 0.08 | 10 | \$27,458 | 59% | 0.0 |
| PPL | Chiller Tuneup/Diagnostics | No tuneup | Healthcare | Cooling Central | New | building | 10,753 | 8.0% | 0.08 | 10 | \$27,458 | 59% | 0.0 |
| PPL | Cooling Tower Optimization | No Cooling Tower Optimization | Healthcare | Cooling Central | Existing | building | 10,753 | 4.9% | 0.05 | 10 | \$49 | 73% | 4.5 |
| PPL | Duct Insulation, Add R8 | No Insulation | Healthcare | Cooling Central | Existing | building | 10,753 | 1.4% | 0.04 | 15 | \$85 | 20% | 1.3 |
| PPL | Duct Insulation, Add R8 | No Insulation | Healthcare | Cooling Central | New | building | 10,753 | 1.4% | 0.04 | 15 | \$85 | 10% | 1.3 |
| PPL | Facility Commissioning | No Facility Commissioning | Healthcare | Cooling Central | New | building | 10,753 | 16% | 0.2 | 10 | \$68,571 | 89% | 0.0 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Healthcare | Cooling Central | Existing | building | 10,753 | 7.0% | 0.07 | 15 | \$47,700 | 25% | 0.0 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Healthcare | Cooling Central | New | building | 10,753 | 7.0% | 0.07 | 15 | \$47,700 | 35% | 0.0 |
| PPL | Hi Eff HVAC System Design | No HVAC Design | Healthcare | Cooling Central | New | building | 10,753 | 8.6% | 0.09 | 10 | \$666,890 | 51% | 0.0 |
| PPL | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | Early | ton | 8,313 | 24% | 0.7 | 15 | \$108,550 | 88% | 0.0 |
| PPL | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | New | ton | 6,796 | 6.7% | 0.2 | 15 | \$12,927 | 88% | 0.0 |
| PPL | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | ROB | ton | 6,796 | 6.7% | 0.2 | 15 | \$12,927 | 88% | 0.0 |
| PPL | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | Early | ton | 12,422 | 23% | 1.0 | 15 | \$140,105 | 88% | 0.0 |
| PPL | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | New | ton | 9,994 | 4.9% | 0.2 | 15 | \$9,336 | 88% | 0.0 |
| PPL | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | ROB | ton | 9,994 | 4.9% | 0.2 | 15 | \$9,336 | 88% | 0.0 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | Early | ton | 101,692 | 26% | 9.1 | 15 | \$105,354 | 88% | 0.2 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | New | ton | 88,603 | 15% | 4.6 | 15 | \$30,530 | 88% | 0.3 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | ROB | ton | 88,603 | 15% | 4.6 | 15 | \$30,530 | 88% | 0.3 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | Early | ton | 152,307 | 23% | 12.1 | 15 | \$154,107 | 88% | 0.2 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | New | ton | 139,913 | 16% | 7.8 | 15 | \$27,646 | 88% | 0.6 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | ROB | ton | 152,307 | 23% | 12.1 | 15 | \$27,346 | 88% | 1.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|--|------------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | Early | ton | 252,953 | 23% | 19.9 | 15 | \$302,924 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | New | ton | 228,940 | 14% | 11.5 | 15 | \$115,432 | 88% | 0.2 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | ROB | ton | 252,953 | 23% | 19.9 | 15 | \$115,432 | 88% | 0.4 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | Early | ton | 303,543 | 23% | 23.8 | 15 | \$350,154 | 88% | 0.2 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | New | ton | 274,728 | 14% | 13.8 | 15 | \$120,406 | 88% | 0.3 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | ROB | ton | 303,543 | 23% | 23.8 | 15 | \$120,406 | 88% | 0.4 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | Early | ton | 67,283 | 29% | 6.9 | 15 | \$83,632 | 88% | 0.2 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | New | ton | 52,244 | 9.0% | 1.6 | 15 | \$40,211 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | ROB | ton | 67,283 | 29% | 6.9 | 15 | \$40,211 | 88% | 0.4 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | Early | ton | 115,609 | 35% | 14.0 | 15 | \$132,173 | 88% | 0.2 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | New | ton | 86,224 | 13% | 3.8 | 15 | \$39,556 | 88% | 0.2 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | ROB | ton | 86,224 | 13% | 3.8 | 15 | \$39,556 | 88% | 0.2 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | Early | ton | 193,018 | 39% | 26.3 | 15 | \$187,029 | 88% | 0.3 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | New | ton | 137,619 | 15% | 7.0 | 15 | \$33,554 | 88% | 0.5 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | ROB | ton | 193,018 | 39% | 26.3 | 15 | \$33,554 | 88% | 1.8 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | Early | ton | 33,775 | 30% | 3.5 | 15 | \$32,398 | 88% | 0.2 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | New | ton | 26,759 | 11% | 1.0 | 15 | \$7,188 | 88% | 0.3 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Healthcare | Cooling Central | ROB | ton | 33,775 | 30% | 3.5 | 15 | \$7,188 | 88% | 1.1 |
| PPL | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Healthcare | Cooling Central | Existing | building | 10,753 | 2.1% | 0.02 | 10 | \$22,450 | 81% | 0.0 |
| PPL | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Healthcare | Cooling Central | New | building | 10,753 | 2.1% | 0.02 | 10 | \$22,450 | 81% | 0.0 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Healthcare | Cooling Central | Existing | building | 10,753 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.3 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Healthcare | Cooling Central | New | building | 10,753 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.6 |
| PPL | Re-Commissioning (Existing Construction) | No Re-Commissioning | Healthcare | Cooling Central | Existing | building | 10,753 | 16% | 0.2 | 5 | \$8,847 | 86% | 0.0 |
| PPL | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Healthcare | Cooling Central | Existing | building | 10,754 | 2.6% | 0.03 | 15 | \$5,624 | 26% | 0.0 |
| PPL | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Healthcare | Cooling Central | New | building | 10,754 | 0.1% | 0.00 | 15 | \$4,314 | 94% | 0.0 |
| PPL | <65k BTU/hr 14 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Healthcare | Cooling Unitary | Early | ton | 2,304 | 16% | 0.2 | 15 | \$1,545 | 29% | 0.2 |
| PPL | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Healthcare | Cooling Unitary | New | ton | 2,087 | 7.1% | 0.07 | 15 | \$339 | 29% | 0.4 |
| PPL | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Healthcare | Cooling Unitary | ROB | ton | 2,087 | 7.1% | 0.07 | 15 | \$339 | 29% | 0.4 |
| PPL | <65k BTU/hr 15 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Healthcare | Cooling Unitary | Early | ton | 2,304 | 22% | 0.1 | 15 | \$1,821 | 30% | 0.2 |
| PPL | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Healthcare | Cooling Unitary | New | ton | 2,087 | 13% | 0.2 | 15 | \$714 | 30% | 0.4 |
| PPL | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Healthcare | Cooling Unitary | ROB | ton | 2,087 | 13% | 0.2 | 15 | \$714 | 30% | 0.4 |
| PPL | <65k BTU/hr 16 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Healthcare | Cooling Unitary | Early | ton | 2,304 | 26% | 0.3 | 15 | \$2,098 | 31% | 0.3 |
| PPL | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Healthcare | Cooling Unitary | New | ton | 2,087 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.3 |
| PPL | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Healthcare | Cooling Unitary | ROB | ton | 2,087 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.3 |
| PPL | >760k min 10.2 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Healthcare | Cooling Unitary | Early | ton | 58,290 | 3.7% | 1.0 | 15 | \$68,066 | 56% | 0.0 |
| PPL | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Healthcare | Cooling Unitary | New | ton | 59,037 | 4.9% | 1.3 | 15 | \$6,231 | 56% | 0.4 |
| PPL | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Healthcare | Cooling Unitary | ROB | ton | 59,037 | 4.9% | 1.3 | 15 | \$6,231 | 56% | 0.4 |
| PPL | 135-240k min 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Healthcare | Cooling Unitary | Early | ton | 14,078 | 18% | 1.2 | 15 | \$18,135 | 79% | 0.1 |
| PPL | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Healthcare | Cooling Unitary | New | ton | 12,806 | 10.0% | 0.6 | 15 | \$1,948 | 79% | 0.6 |
| PPL | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Healthcare | Cooling Unitary | ROB | ton | 12,806 | 10.0% | 0.6 | 15 | \$1,948 | 79% | 0.6 |
| PPL | 240k-760k min 11 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Healthcare | Cooling Unitary | Early | ton | 38,348 | 9.0% | 1.6 | 15 | \$44,809 | 66% | 0.1 |
| PPL | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Healthcare | Cooling Unitary | New | ton | 38,444 | 9.3% | 1.6 | 15 | \$4,813 | 66% | 0.6 |
| PPL | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Healthcare | Cooling Unitary | ROB | ton | 38,444 | 9.3% | 1.6 | 15 | \$4,813 | 66% | 0.6 |
| PPL | 65k-135k BTU/hr 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Healthcare | Cooling Unitary | Early | ton | 8,455 | 17% | 0.7 | 15 | \$10,946 | 86% | 0.1 |
| PPL | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Healthcare | Cooling Unitary | New | ton | 7,535 | 6.7% | 0.2 | 15 | \$1,392 | 86% | 0.3 |
| PPL | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Healthcare | Cooling Unitary | ROB | ton | 7,535 | 6.7% | 0.2 | 15 | \$1,392 | 86% | 0.3 |
| PPL | Adding reflective roof treatment | Std color roof | Healthcare | Cooling Unitary | Existing | building | 174,597 | 7.0% | 0.07 | 6 | \$15,261 | 82% | 0.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|---|------------|-----------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Adding reflective roof treatment | Std color roof | Healthcare | Cooling Unitary | New | building | 174,597 | 7.0% | 0.07 | 6 | \$15,261 | 82% | 0.2 |
| PPL | Adding window shade film | No shade film | Healthcare | Cooling Unitary | Existing | building | 174,597 | 1.3% | 0.4 | 10 | \$2,124 | 12% | 0.5 |
| PPL | Adding window shade film | No shade film | Healthcare | Cooling Unitary | New | building | 174,597 | 1.3% | 0.4 | 10 | \$2,124 | 13% | 0.5 |
| PPL | Adding window shade screen | No shade screen | Healthcare | Cooling Unitary | Existing | building | 174,597 | 1.1% | 0.01 | 10 | \$822 | 12% | 0.8 |
| PPL | Adding window shade screen | No shade screen | Healthcare | Cooling Unitary | New | building | 174,597 | 1.1% | 0.01 | 10 | \$822 | 13% | 0.8 |
| PPL | Automated control system | Manual Controls | Healthcare | Cooling Unitary | Existing | building | 174,597 | 17% | 0.2 | 15 | \$191,142 | 51% | 0.1 |
| PPL | Automated control system | Manual Controls | Healthcare | Cooling Unitary | New | building | 174,597 | 17% | 0.2 | 15 | \$191,142 | 94% | 0.1 |
| PPL | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Healthcare | Cooling Unitary | Existing | building | 174,597 | 1.1% | 0.01 | 15 | \$20,566 | 71% | 0.1 |
| PPL | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Healthcare | Cooling Unitary | New | building | 174,597 | 0.3% | 0.00 | 15 | \$19,549 | 94% | 0.0 |
| PPL | Duct Insulation, Add R8 | No Insulation | Healthcare | Cooling Unitary | Existing | building | 174,597 | 1.4% | 0.04 | 15 | \$1,387 | 20% | 1.0 |
| PPL | Duct Insulation, Add R8 | No Insulation | Healthcare | Cooling Unitary | New | building | 174,597 | 1.4% | 0.04 | 15 | \$1,387 | 10% | 1.0 |
| PPL | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Healthcare | Cooling Unitary | Existing | building | 95,413 | 13% | 0.1 | 1 | \$915 | 73% | 0.7 |
| PPL | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Healthcare | Cooling Unitary | New | building | 95,413 | 13% | 0.1 | 1 | \$915 | 73% | 0.7 |
| PPL | ECM Motors for split systems | Std Shaded Pole Motor | Healthcare | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.6 |
| PPL | ECM Motors for split systems | Std Shaded Pole Motor | Healthcare | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.6 |
| PPL | Facility Commissioning | No Facility Commissioning | Healthcare | Cooling Unitary | New | building | 174,597 | 16% | 0.2 | 10 | \$5,178 | 89% | 2.0 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Healthcare | Cooling Unitary | Existing | building | 174,597 | 7.1% | 0.07 | 15 | \$774,472 | 25% | 0.0 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Healthcare | Cooling Unitary | New | building | 174,597 | 7.1% | 0.07 | 15 | \$774,472 | 35% | 0.0 |
| PPL | Hi Eff HVAC System Design | No HVAC Design | Healthcare | Cooling Unitary | New | building | 174,597 | 8.6% | 0.09 | 10 | \$60,777 | 51% | 0.1 |
| PPL | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Healthcare | Cooling Unitary | Existing | building | 174,597 | 5.0% | 0.05 | 5 | \$225 | 59% | 8.1 |
| PPL | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Healthcare | Cooling Unitary | Existing | building | 174,597 | 2.1% | 0.02 | 10 | \$24,127 | 86% | 0.1 |
| PPL | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Healthcare | Cooling Unitary | New | building | 174,597 | 2.1% | 0.02 | 10 | \$24,127 | 86% | 0.1 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) | Healthcare | Cooling Unitary | Existing | building | 174,597 | 2.0% | 0.02 | 11 | \$286 | 49% | 5.0 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Healthcare | Cooling Unitary | New | building | 174,597 | 1.7% | 0.02 | 11 | \$146 | 49% | 8.3 |
| PPL | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Healthcare | Cooling Unitary | Early | unit | 779 | 19% | 0.07 | 15 | \$849 | 85% | 0.2 |
| PPL | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Healthcare | Cooling Unitary | New | unit | 787 | 20% | 0.07 | 15 | \$356 | 85% | 0.4 |
| PPL | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Healthcare | Cooling Unitary | ROB | unit | 787 | 20% | 0.07 | 15 | \$356 | 85% | 0.4 |
| PPL | Re-Commissioning (Existing Construction) | No Re-Commissioning | Healthcare | Cooling Unitary | Existing | building | 174,597 | 16% | 0.2 | 5 | \$8,847 | 86% | 0.7 |
| PPL | Room AC (w/ louvered sides) | Exisiting efficiency Room AC in Pennsylvania (2000 Federal Standards) | Healthcare | Cooling Unitary | Early | ton | 1,088 | 13% | 0.05 | 9 | \$348 | 82% | 0.2 |
| PPL | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Healthcare | Cooling Unitary | New | ton | 986 | 4.5% | 0.02 | 9 | \$17 | 82% | 1.3 |
| PPL | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Healthcare | Cooling Unitary | ROB | ton | 986 | 4.5% | 0.02 | 9 | \$17 | 82% | 1.3 |
| PPL | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Healthcare | Cooling Unitary | Existing | building | 174,597 | 2.6% | 0.03 | 15 | \$5,624 | 26% | 0.4 |
| PPL | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Healthcare | Cooling Unitary | New | building | 174,597 | 0.1% | 0.00 | 15 | \$4,314 | 94% | 0.0 |
| PPL | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Healthcare | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 1.1 |
| PPL | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Healthcare | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.5 |
| PPL | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Healthcare | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.5 |
| PPL | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Healthcare | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 0% | 0.2 |
| PPL | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Healthcare | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| PPL | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Healthcare | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| PPL | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Healthcare | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 75% | 0.3 |
| PPL | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Healthcare | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 75% | 0.2 |
| PPL | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Healthcare | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.8 |
| PPL | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Healthcare | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.1 |
| PPL | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Healthcare | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.8 |
| PPL | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Healthcare | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.1 |
| PPL | Photocell Controls (Outdoor) | Lighting w/ No Controls | Healthcare | Ext. Lighting | Existing | building | 10,108 | 28% | 0.3 | 8 | \$5,444 | 88% | 0.2 |
| PPL | Photocell Controls (Outdoor) | Lighting w/ No Controls | Healthcare | Ext. Lighting | New | building | 10,108 | 28% | 0.3 | 8 | \$5,444 | 0% | 0.2 |
| PPL | Adding reflective roof treatment | Std color roof | Healthcare | Heat Pump | Existing | building | 20,382 | 6.9% | 0.07 | 6 | \$15,261 | 82% | 0.0 |
| PPL | Adding reflective roof treatment | Std color roof | Healthcare | Heat Pump | New | building | 20,382 | 6.9% | 0.07 | 6 | \$15,261 | 82% | 0.0 |
| PPL | Adding window shade film | No shade film | Healthcare | Heat Pump | Existing | building | 20,382 | 3.9% | 0.4 | 10 | \$248 | 12% | 2.0 |
| PPL | Adding window shade film | No shade film | Healthcare | Heat Pump | New | building | 20,382 | 3.9% | 0.4 | 10 | \$248 | 12% | 2.0 |
| PPL | Adding window shade screen | No shade screen | Healthcare | Heat Pump | Existing | building | 20,382 | 0.3% | 0.01 | 10 | \$96 | 12% | 0.9 |
| PPL | Adding window shade screen | No shade screen | Healthcare | Heat Pump | New | building | 20,382 | 0.3% | 0.01 | 10 | \$96 | 12% | 0.9 |
| PPL | Automated control system | Manual Controls | Healthcare | Heat Pump | Existing | building | 20,382 | 17% | 0.2 | 15 | \$22,314 | 51% | 0.1 |
| PPL | Automated control system | Manual Controls | Healthcare | Heat Pump | New | building | 20,382 | 17% | 0.2 | 15 | \$22,314 | 94% | 0.1 |
| PPL | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Healthcare | Heat Pump | Existing | building | 20,382 | 1.0% | 0.01 | 15 | \$20,566 | 71% | 0.0 |
| PPL | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Healthcare | Heat Pump | New | building | 20,382 | 0.3% | 0.00 | 15 | \$19,549 | 94% | 0.0 |
| PPL | Duct Insulation, Add R8 | No Insulation | Healthcare | Heat Pump | Existing | building | 20,382 | 4.0% | 0.04 | 15 | \$162 | 12% | 2.9 |
| PPL | Duct Insulation, Add R8 | No Insulation | Healthcare | Heat Pump | New | building | 20,382 | 4.0% | 0.04 | 15 | \$162 | 6% | 2.9 |
| PPL | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Healthcare | Heat Pump | Early | heat pump | 1,691 | 13% | 0.02 | 15 | \$4,070 | 83% | 0.0 |
| PPL | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Healthcare | Heat Pump | New | heat pump | 1,596 | 7.7% | 0.01 | 15 | \$1,097 | 83% | 0.1 |
| PPL | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Healthcare | Heat Pump | ROB | heat pump | 1,596 | 7.7% | 0.01 | 15 | \$1,097 | 83% | 0.1 |
| PPL | Facility Commissioning | No Facility Commissioning | Healthcare | Heat Pump | New | building | 20,382 | 16% | 0.2 | 10 | \$68,571 | 89% | 0.0 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Healthcare | Heat Pump | Existing | building | 20,382 | 7.0% | 0.07 | 15 | \$90,410 | 25% | 0.0 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Healthcare | Heat Pump | New | building | 20,382 | 7.0% | 0.07 | 15 | \$90,410 | 35% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|--|------------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Healthcare | Heat Pump | Early | heat pump | 17,732 | 18% | 0.3 | 15 | \$91,117 | 19% | 0.0 |
| PPL | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Healthcare | Heat Pump | New | heat pump | 16,947 | 15% | 0.2 | 15 | \$33,927 | 19% | 0.0 |
| PPL | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Healthcare | Heat Pump | ROB | heat pump | 16,947 | 15% | 0.2 | 15 | \$33,927 | 19% | 0.0 |
| PPL | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Healthcare | Heat Pump | Early | heat pump | 17,732 | 18% | 0.3 | 15 | \$58,356 | 19% | 0.0 |
| PPL | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Healthcare | Heat Pump | New | heat pump | 16,947 | 15% | 0.2 | 15 | \$1,167 | 19% | 1.3 |
| PPL | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Healthcare | Heat Pump | ROB | heat pump | 16,947 | 15% | 0.2 | 15 | \$1,167 | 19% | 1.3 |
| PPL | Hi Eff HVAC System Design | No HVAC Design | Healthcare | Heat Pump | New | building | 20,382 | 8.6% | 0.09 | 10 | \$666,890 | 51% | 0.0 |
| PPL | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Healthcare | Heat Pump | Early | heat pump | 4,510 | 18% | 0.07 | 12 | \$4,298 | 81% | 0.1 |
| PPL | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Healthcare | Heat Pump | Early | heat pump | 4,510 | 25% | 0.10 | 12 | \$5,883 | 81% | 0.1 |
| PPL | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Healthcare | Heat Pump | New | heat pump | 4,256 | 13% | 0.05 | 12 | \$852 | 81% | 0.3 |
| PPL | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Healthcare | Heat Pump | New | heat pump | 4,256 | 20% | 0.07 | 12 | \$2,437 | 81% | 0.2 |
| PPL | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Healthcare | Heat Pump | ROB | heat pump | 4,256 | 13% | 0.05 | 12 | \$852 | 81% | 0.3 |
| PPL | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Healthcare | Heat Pump | ROB | heat pump | 4,256 | 20% | 0.07 | 12 | \$2,437 | 81% | 0.2 |
| PPL | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Healthcare | Heat Pump | Existing | building | 20,382 | 2.1% | 0.02 | 10 | \$21,481 | 81% | 0.0 |
| PPL | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Healthcare | Heat Pump | New | building | 20,382 | 2.1% | 0.02 | 10 | \$21,481 | 81% | 0.0 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Healthcare | Heat Pump | Existing | building | 20,382 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.8 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Healthcare | Heat Pump | New | building | 20,382 | 2.1% | 0.02 | 11 | \$146 | 49% | 1.3 |
| PPL | Re-Commissioning (Existing Construction) | No Re-Commissioning | Healthcare | Heat Pump | Existing | building | 20,382 | 16% | 0.2 | 5 | \$8,847 | 86% | 0.1 |
| PPL | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Healthcare | Heat Pump | Existing | building | 20,382 | 2.6% | 0.03 | 15 | \$5,624 | 26% | 0.1 |
| PPL | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Healthcare | Heat Pump | New | building | 1,963 | 0.1% | 0.00 | 15 | \$4,314 | 94% | 0.0 |
| PPL | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Healthcare | Heat Pump | Early | heat pump | 7,082 | 32% | 0.2 | 15 | \$35,347 | 28% | 0.0 |
| PPL | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Healthcare | Heat Pump | New | heat pump | 6,636 | 27% | 0.2 | 15 | \$15,739 | 28% | 0.1 |
| PPL | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Healthcare | Heat Pump | ROB | heat pump | 6,636 | 27% | 0.2 | 15 | \$15,739 | 28% | 0.1 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | Early | Fixture | 620 | 9.6% | 0.01 | 13 | \$875 | 39% | 0.0 |
| PPL | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Healthcare | High Bay Lighting | Early | Fixture | 619 | 9.5% | 0.01 | 13 | \$875 | 28% | 0.0 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Healthcare | High Bay Lighting | Early | Fixture | 956 | 41% | 0.08 | 13 | \$875 | 36% | 0.3 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | New | Fixture | 471 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Healthcare | High Bay Lighting | New | Fixture | 438 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Healthcare | High Bay Lighting | New | Fixture | 726 | 41% | 0.06 | 13 | \$397 | 36% | 0.5 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 620 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 577 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 956 | 41% | 0.08 | 13 | \$397 | 36% | 0.6 |
| PPL | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | Early | Fixture | 1,203 | 19% | 0.05 | 13 | \$877 | 38% | 0.2 |
| PPL | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Healthcare | High Bay Lighting | Early | Fixture | 1,218 | 20% | 0.05 | 13 | \$877 | 38% | 0.2 |
| PPL | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | Early | Fixture | 3,543 | 73% | 0.5 | 13 | \$877 | 38% | 1.9 |
| PPL | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | New | Fixture | 914 | 19% | 0.04 | 13 | \$372 | 38% | 0.3 |
| PPL | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | New | Fixture | 2,693 | 73% | 0.4 | 13 | \$383 | 38% | 3.2 |
| PPL | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 1,203 | 19% | 0.05 | 13 | \$372 | 38% | 0.4 |
| PPL | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 3,543 | 73% | 0.5 | 13 | \$383 | 38% | 4.3 |
| PPL | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | Early | Fixture | 1,203 | 25% | 0.06 | 13 | \$580 | 29% | 0.3 |
| PPL | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Healthcare | High Bay Lighting | Early | Fixture | 1,181 | 23% | 0.06 | 13 | \$580 | 28% | 0.3 |
| PPL | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | Early | Fixture | 3,543 | 74% | 0.6 | 13 | \$580 | 36% | 2.9 |
| PPL | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | New | Fixture | 914 | 25% | 0.05 | 13 | \$75 | 29% | 1.9 |
| PPL | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | New | Fixture | 2,693 | 74% | 0.4 | 13 | \$86 | 36% | 14.8 |
| PPL | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 1,203 | 25% | 0.06 | 13 | \$75 | 29% | 2.5 |
| PPL | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 3,543 | 74% | 0.6 | 13 | \$86 | 36% | 19.5 |
| PPL | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Healthcare | High Bay Lighting | Early | Fixture | 314 | 0.2% | 0.00 | 13 | \$861 | 38% | 0.0 |
| PPL | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Healthcare | High Bay Lighting | Early | Fixture | 676 | 54% | 0.08 | 13 | \$861 | 38% | 0.3 |
| PPL | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Healthcare | High Bay Lighting | New | Fixture | 514 | 54% | 0.06 | 13 | \$382 | 38% | 0.5 |
| PPL | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 676 | 54% | 0.08 | 13 | \$382 | 38% | 0.6 |
| PPL | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | Early | Fixture | 1,533 | 18% | 0.06 | 13 | \$512 | 25% | 0.3 |
| PPL | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Healthcare | High Bay Lighting | Early | Fixture | 1,603 | 22% | 0.07 | 13 | \$512 | 28% | 0.4 |
| PPL | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | Early | Fixture | 3,543 | 65% | 0.5 | 13 | \$512 | 36% | 2.8 |
| PPL | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | New | Fixture | 1,165 | 18% | 0.05 | 13 | \$16 | 25% | 8.3 |
| PPL | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | New | Fixture | 2,693 | 65% | 0.4 | 13 | \$18 | 36% | 60.1 |
| PPL | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 1,533 | 18% | 0.06 | 13 | \$16 | 25% | 10.9 |
| PPL | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 3,543 | 65% | 0.5 | 13 | \$18 | 36% | 79.1 |
| PPL | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | Early | Fixture | 1,533 | 1.5% | 0.00 | 13 | \$582 | 19% | 0.0 |
| PPL | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Healthcare | High Bay Lighting | Early | Fixture | 1,578 | 4.3% | 0.01 | 13 | \$582 | 19% | 0.1 |
| PPL | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | Early | Fixture | 3,543 | 57% | 0.4 | 13 | \$582 | 19% | 2.2 |
| PPL | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | New | Fixture | 1,165 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| PPL | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | New | Fixture | 2,693 | 57% | 0.3 | 13 | \$88 | 19% | 11.1 |
| PPL | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 1,533 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.2 |
| PPL | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 3,543 | 57% | 0.4 | 13 | \$88 | 19% | 14.6 |
| PPL | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Healthcare | High Bay Lighting | Early | Fixture | 651 | 29% | 0.03 | 13 | \$517 | 71% | 0.2 |
| PPL | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | Early | Fixture | 544 | 15% | 0.01 | 13 | \$517 | 95% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|---|------------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Healthcare | High Bay Lighting | Early | Fixture | 808 | 43% | 0.05 | 13 | \$517 | 95% | 0.4 |
| PPL | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Healthcare | High Bay Lighting | Early | Fixture | 749 | 38% | 0.04 | 13 | \$517 | 95% | 0.3 |
| PPL | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | New | Fixture | 414 | 15% | 0.01 | 13 | \$25 | 95% | 1.5 |
| PPL | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Healthcare | High Bay Lighting | New | Fixture | 614 | 43% | 0.04 | 13 | \$51 | 95% | 3.0 |
| PPL | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 544 | 15% | 0.01 | 13 | \$25 | 95% | 2.0 |
| PPL | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 808 | 43% | 0.05 | 13 | \$51 | 95% | 4.0 |
| PPL | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Healthcare | High Bay Lighting | Early | lamp | 107 | 16% | 0.00 | 10 | \$8.7 | 99% | 1.0 |
| PPL | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Healthcare | High Bay Lighting | New | lamp | 64 | 13% | 0.00 | 10 | \$1.6 | 91% | 2.6 |
| PPL | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Healthcare | High Bay Lighting | ROB | lamp | 103 | 13% | 0.00 | 10 | \$1.6 | 91% | 4.1 |
| PPL | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | Early | Fixture | 3,626 | 23% | 0.2 | 13 | \$639 | 5% | 0.8 |
| PPL | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Healthcare | High Bay Lighting | Early | Fixture | 2,849 | 1.6% | 0.01 | 13 | \$639 | 28% | 0.0 |
| PPL | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | Early | Fixture | 7,087 | 60% | 0.9 | 13 | \$639 | 18% | 4.3 |
| PPL | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | New | Fixture | 2,756 | 23% | 0.1 | 13 | \$96 | 5% | 4.1 |
| PPL | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 3,626 | 23% | 0.2 | 13 | \$96 | 5% | 5.4 |
| PPL | Auto Off Time Switch | Lighting w/ No Controls | Healthcare | High Bay Lighting | Existing | building | 12,962 | 24% | 0.2 | 8 | \$1,106 | 13% | 1.0 |
| PPL | Auto Off Time Switch | Lighting w/ No Controls | Healthcare | High Bay Lighting | New | building | 12,962 | 6.9% | 0.07 | 8 | \$1,106 | 0% | 0.3 |
| PPL | Central Lighting Control System | Lighting w/ No Controls | Healthcare | High Bay Lighting | Existing | building | 12,962 | 38% | 0.4 | 8 | \$1,106 | 13% | 1.6 |
| PPL | Central Lighting Control System | Lighting w/ No Controls | Healthcare | High Bay Lighting | New | building | 12,962 | 14% | 0.1 | 8 | \$1,106 | 13% | 0.6 |
| PPL | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Healthcare | High Bay Lighting | New | building | 12,962 | 10% | 0.1 | 15 | \$32,147 | 32% | 0.0 |
| PPL | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Healthcare | High Bay Lighting | New | building | 12,962 | 15% | 0.2 | 15 | \$80,367 | 32% | 0.0 |
| PPL | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Healthcare | High Bay Lighting | New | building | 12,962 | 30% | 0.3 | 15 | \$115,193 | 32% | 0.0 |
| PPL | Indoor Daylight Sensors | Lighting w/ No Controls | Healthcare | High Bay Lighting | Existing | building | 12,962 | 28% | 0.3 | 8 | \$5,444 | 13% | 0.2 |
| PPL | Indoor Daylight Sensors | Lighting w/ No Controls | Healthcare | High Bay Lighting | New | building | 12,962 | 4.0% | 0.04 | 8 | \$5,444 | 0% | 0.0 |
| PPL | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | Early | Fixture | 3,626 | 92% | 0.7 | 13 | \$1,941 | 95% | 1.1 |
| PPL | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | Early | Fixture | 7,087 | 96% | 1.4 | 13 | \$1,941 | 95% | 2.2 |
| PPL | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | New | Fixture | 2,756 | 92% | 0.5 | 13 | \$1,468 | 95% | 1.1 |
| PPL | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | New | Fixture | 5,386 | 96% | 1.1 | 13 | \$1,149 | 95% | 2.9 |
| PPL | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 3,626 | 92% | 0.7 | 13 | \$1,468 | 95% | 1.4 |
| PPL | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 7,087 | 96% | 1.4 | 13 | \$1,149 | 95% | 3.8 |
| PPL | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | Early | Fixture | 1,203 | 67% | 0.2 | 13 | \$985 | 95% | 0.5 |
| PPL | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Healthcare | High Bay Lighting | Early | Fixture | 3,543 | 89% | 0.7 | 13 | \$985 | 95% | 2.0 |
| PPL | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Healthcare | High Bay Lighting | Early | Fixture | 972 | 59% | 0.1 | 13 | \$985 | 95% | 0.4 |
| PPL | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | New | Fixture | 914 | 67% | 0.1 | 13 | \$480 | 95% | 0.8 |
| PPL | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Healthcare | High Bay Lighting | New | Fixture | 2,693 | 89% | 0.5 | 13 | \$491 | 95% | 3.1 |
| PPL | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Healthcare | High Bay Lighting | New | Fixture | 739 | 59% | 0.09 | 13 | \$406 | 95% | 0.7 |
| PPL | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 1,203 | 67% | 0.2 | 13 | \$480 | 95% | 1.1 |
| PPL | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 3,543 | 89% | 0.7 | 13 | \$491 | 95% | 4.1 |
| PPL | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Healthcare | High Bay Lighting | ROB | Fixture | 972 | 59% | 0.1 | 13 | \$406 | 95% | 0.9 |
| PPL | Occupancy Sensor | Lighting w/ No Controls | Healthcare | High Bay Lighting | Existing | building | 12,962 | 24% | 0.2 | 8 | \$1,666 | 11% | 0.7 |
| PPL | Occupancy Sensor | Lighting w/ No Controls | Healthcare | High Bay Lighting | New | building | 12,962 | 6.9% | 0.07 | 8 | \$1,666 | 0% | 0.2 |
| PPL | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Healthcare | High Bay Lighting | Existing | building | 12,962 | 28% | 0.3 | 8 | \$5,444 | 11% | 0.2 |
| PPL | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Healthcare | High Bay Lighting | New | building | 12,962 | 4.0% | 0.04 | 8 | \$5,444 | 0% | 0.0 |
| PPL | Time Clock Control | Lighting w/ No Controls | Healthcare | High Bay Lighting | Existing | building | 12,962 | 28% | 0.3 | 8 | \$1,106 | 13% | 1.2 |
| PPL | Time Clock Control | Lighting w/ No Controls | Healthcare | High Bay Lighting | New | building | 12,962 | 4.0% | 0.04 | 8 | \$1,106 | 0% | 0.2 |
| PPL | Auto Off Time Switch | Lighting w/ No Controls | Healthcare | Lin. Fluor. Lighting | Existing | building | 282,550 | 24% | 0.2 | 8 | \$1,106 | 13% | 19.9 |
| PPL | Auto Off Time Switch | Lighting w/ No Controls | Healthcare | Lin. Fluor. Lighting | New | building | 282,550 | 7.0% | 0.07 | 8 | \$1,106 | 0% | 5.8 |
| PPL | Central Lighting Control System | Lighting w/ No Controls | Healthcare | Lin. Fluor. Lighting | Existing | building | 282,550 | 38% | 0.4 | 8 | \$1,106 | 12% | 31.5 |
| PPL | Central Lighting Control System | Lighting w/ No Controls | Healthcare | Lin. Fluor. Lighting | New | building | 282,550 | 14% | 0.1 | 8 | \$1,106 | 12% | 11.6 |
| PPL | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Healthcare | Lin. Fluor. Lighting | New | building | 282,550 | 10% | 0.1 | 15 | \$32,147 | 32% | 0.5 |
| PPL | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Healthcare | Lin. Fluor. Lighting | New | building | 282,550 | 15% | 0.2 | 15 | \$80,367 | 32% | 0.3 |
| PPL | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Healthcare | Lin. Fluor. Lighting | New | building | 282,550 | 30% | 0.3 | 15 | \$115,193 | 32% | 0.4 |
| PPL | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Healthcare | Lin. Fluor. Lighting | Early | Lamp | 215 | 38% | 0.02 | 10 | \$8.3 | 94% | 4.9 |
| PPL | Indoor Daylight Sensors | Lighting w/ No Controls | Healthcare | Lin. Fluor. Lighting | Existing | building | 282,550 | 28% | 0.3 | 8 | \$5,444 | 13% | 4.7 |
| PPL | Indoor Daylight Sensors | Lighting w/ No Controls | Healthcare | Lin. Fluor. Lighting | New | building | 282,550 | 4.1% | 0.04 | 8 | \$5,444 | 0% | 0.7 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | Early | Lamp | 77 | 19% | 0.00 | 15 | \$36 | 94% | 0.3 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 40W T12 Lamp, Magnetic Ballast | Healthcare | Lin. Fluor. Lighting | Early | Lamp | 169 | 63% | 0.02 | 15 | \$36 | 94% | 2.1 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | Early | Lamp | 95 | 34% | 0.01 | 15 | \$36 | 94% | 0.7 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | Early | Lamp | 92 | 32% | 0.01 | 15 | \$36 | 94% | 0.6 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | New | Lamp | 59 | 19% | 0.00 | 15 | \$28 | 94% | 0.3 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | New | Lamp | 70 | 32% | 0.00 | 15 | \$29 | 94% | 0.6 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | New | Lamp | 72 | 34% | 0.01 | 15 | \$22 | 94% | 0.8 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | New | Lamp | 70 | 32% | 0.00 | 15 | \$29 | 94% | 0.6 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | ROB | Lamp | 77 | 19% | 0.00 | 15 | \$28 | 94% | 0.4 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | ROB | Lamp | 92 | 32% | 0.01 | 15 | \$29 | 94% | 0.7 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | ROB | Lamp | 95 | 34% | 0.01 | 15 | \$22 | 94% | 1.1 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Healthcare | Lin. Fluor. Lighting | ROB | Lamp | 92 | 32% | 0.01 | 15 | \$29 | 94% | 0.7 |
| PPL | Occupancy Sensor | Lighting w/ No Controls | Healthcare | Lin. Fluor. Lighting | Existing | building | 282,550 | 24% | 0.2 | 8 | \$1,666 | 12% | 13.2 |
| PPL | Occupancy Sensor | Lighting w/ No Controls | Healthcare | Lin. Fluor. Lighting | New | building | 282,550 | 7.0% | 0.07 | 8 | \$1,666 | 0% | 3.8 |
| PPL | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Healthcare | Lin. Fluor. Lighting | Existing | building | 282,550 | 28% | 0.3 | 8 | \$5,444 | 11% | 4.7 |
| PPL | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Healthcare | Lin. Fluor. Lighting | New | building | 282,550 | 4.1% | 0.04 | 8 | \$5,444 | 0% | 0.7 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|---|------------|---------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | ROB | motor | 258,856 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.7 |
| PPL | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Healthcare | Motors | ROB | motor | 258,856 | 0.5% | 0.2 | 15 | \$554 | 61% | 1.6 |
| PPL | ASD HVAC Fan | Std. HVAC Fan | Healthcare | Motors | New | measure | 106,370 | 9.1% | 1.1 | 15 | \$38,470 | 85% | 0.2 |
| PPL | ASD HVAC Fan | Std. HVAC Fan | Healthcare | Motors | ROB | measure | 106,370 | 9.1% | 1.1 | 15 | \$38,470 | 85% | 0.2 |
| PPL | CO sensors for parking garage exhaust fans | No CO Sensors | Healthcare | Motors | Existing | building | 19,944 | 19% | 0.2 | 8 | \$1,047 | 4% | 1.2 |
| PPL | CO sensors for parking garage exhaust fans | No CO Sensors | Healthcare | Motors | New | building | 19,944 | 19% | 0.2 | 8 | \$1,047 | 4% | 1.2 |
| PPL | demand controlled ventilation | Absence of Demand Controlled Ventilation | Healthcare | Motors | Early | measure | 106,370 | 5.9% | 0.7 | 10 | \$61,325 | 92% | 0.0 |
| PPL | demand controlled ventilation | Office building thermostat | Healthcare | Motors | New | measure | 106,370 | 5.9% | 0.7 | 10 | \$45,787 | 92% | 0.1 |
| PPL | demand controlled ventilation | Office building thermostat | Healthcare | Motors | ROB | measure | 106,370 | 5.9% | 0.7 | 10 | \$45,787 | 92% | 0.1 |
| PPL | Downsizing motor during retrofit | Larger hp standard motor | Healthcare | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 21.1 |
| PPL | Downsizing motor during retrofit | Larger hp standard motor | Healthcare | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 21.8 |
| PPL | Downsizing motor during retrofit | Larger hp standard motor | Healthcare | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 22.0 |
| PPL | Downsizing motor during retrofit | Larger hp standard motor | Healthcare | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 23.4 |
| PPL | Downsizing motor during retrofit | Larger hp standard motor | Healthcare | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 23.2 |
| PPL | Downsizing motor during retrofit | Larger hp standard motor | Healthcare | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 21.2 |
| PPL | Downsizing motor during retrofit | Larger hp standard motor | Healthcare | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 21.7 |
| PPL | Downsizing motor during retrofit | Larger hp standard motor | Healthcare | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 22.3 |
| PPL | Downsizing motor during retrofit | Larger hp standard motor | Healthcare | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 23.7 |
| PPL | Downsizing motor during retrofit | Larger hp standard motor | Healthcare | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 23.0 |
| PPL | Escalator Motor Controller | Constant power control | Healthcare | Motors | New | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 67% | 6.0 |
| PPL | Escalator Motor Controller | Constant power control | Healthcare | Motors | ROB | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 67% | 6.0 |
| PPL | Fan Motor - correct sizing | Incorrect Fan Motor Sizing | Healthcare | Motors | ROB | measure | 106,370 | 2.9% | 0.4 | 15 | \$50 | 92% | 39.7 |
| PPL | Variable Speed Drive Control, 15HP | Existing Motors w/out VFD Drive | Healthcare | Motors | Early | motor | 18,736 | 72% | 2.0 | 15 | \$791 | 86% | 11.4 |
| PPL | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VFD Drive | Healthcare | Motors | New | motor | 18,318 | 72% | 1.9 | 15 | \$731 | 86% | 12.1 |
| PPL | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VFD Drive | Healthcare | Motors | ROB | motor | 18,318 | 72% | 1.9 | 15 | \$731 | 86% | 12.1 |
| PPL | Variable Speed Drive Control, 40HP | Existing Motors w/out VSD Drive | Healthcare | Motors | Early | motor | 141,025 | 71% | 14.7 | 15 | \$4,726 | 86% | 14.2 |
| PPL | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Healthcare | Motors | New | motor | 139,377 | 72% | 14.7 | 15 | \$4,666 | 86% | 14.4 |
| PPL | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Healthcare | Motors | ROB | motor | 139,377 | 72% | 14.7 | 15 | \$4,666 | 86% | 14.4 |
| PPL | Variable Speed Drive Control, 5HP | Existing Motors w/out VSD Drive | Healthcare | Motors | Early | motor | 54,047 | 70% | 5.6 | 15 | \$2,303 | 86% | 11.1 |
| PPL | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VSD Drive | Healthcare | Motors | New | motor | 52,884 | 72% | 5.6 | 15 | \$2,243 | 86% | 11.4 |
| PPL | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VSD Drive | Healthcare | Motors | ROB | motor | 52,884 | 72% | 5.6 | 15 | \$2,243 | 86% | 11.4 |
| PPL | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Healthcare | Motors | Early | motor | 141,406 | 0.8% | 0.1 | 15 | \$328 | 40% | 2.2 |
| PPL | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Healthcare | Motors | New | motor | 141,406 | 0.8% | 0.1 | 15 | \$268 | 40% | 2.7 |
| PPL | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Healthcare | Motors | ROB | motor | 141,406 | 0.8% | 0.1 | 15 | \$268 | 40% | 2.7 |
| PPL | VFD on Chilled Water Pump | Motor w/out VFD Drive | Healthcare | Motors | Early | motor | 43,590 | 54% | 2.7 | 15 | \$2,903 | 86% | 5.1 |
| PPL | VFD on Chilled Water Pump | Motor w/out VFD Drive | Healthcare | Motors | New | motor | 42,775 | 55% | 2.7 | 15 | \$2,843 | 86% | 5.2 |
| PPL | VFD on Chilled Water Pump | Motor w/out VFD Drive | Healthcare | Motors | ROB | motor | 42,775 | 55% | 2.7 | 15 | \$2,843 | 86% | 5.2 |
| PPL | VFD on Condenser Water Pump | Motor w/out VFD Drive | Healthcare | Motors | Early | motor | 35,061 | 33% | 3.2 | 15 | \$2,903 | 86% | 2.9 |
| PPL | VFD on Condenser Water Pump | Motor w/out VFD Drive | Healthcare | Motors | New | motor | 34,405 | 33% | 3.1 | 15 | \$2,843 | 86% | 2.9 |
| PPL | VFD on Condenser Water Pump | Motor w/out VFD Drive | Healthcare | Motors | ROB | motor | 34,405 | 33% | 3.1 | 15 | \$2,843 | 86% | 2.9 |
| PPL | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Healthcare | Motors | Early | motor | 67,565 | 56% | 0.00 | 15 | \$2,903 | 86% | 7.1 |
| PPL | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Healthcare | Motors | New | motor | 66,301 | 57% | 0.00 | 15 | \$2,843 | 86% | 7.2 |
| PPL | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Healthcare | Motors | ROB | motor | 66,301 | 57% | 0.00 | 15 | \$2,843 | 86% | 7.2 |
| PPL | VFD on HVAC Fan | Motor w/out VFD | Healthcare | Motors | Early | motor | 43,595 | 70% | 3.4 | 15 | \$2,903 | 86% | 6.8 |
| PPL | VFD on HVAC Fan | Motor w/out VFD | Healthcare | Motors | New | motor | 42,779 | 72% | 3.3 | 15 | \$2,843 | 86% | 7.0 |
| PPL | VFD on HVAC Fan | Motor w/out VFD | Healthcare | Motors | ROB | motor | 42,779 | 72% | 3.3 | 15 | \$2,843 | 86% | 7.0 |
| PPL | Elevators | Std. Eff Elevator | Healthcare | Other | ROB | measure | 89,016 | 2.0% | 0.7 | 15 | \$2,110 | 81% | 0.7 |
| PPL | Variable Speed Drives on Process Equipment | Constant speed control | Healthcare | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 10.4 |
| PPL | Variable Speed Drives on Process Equipment | Constant speed control | Healthcare | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 10.4 |
| PPL | Auto Off Time Switch | Lighting w/ No Controls | Healthcare | Other Int. Lighting | Existing | building | 87,311 | 24% | 0.2 | 8 | \$1,106 | 13% | 6.2 |
| PPL | Auto Off Time Switch | Lighting w/ No Controls | Healthcare | Other Int. Lighting | New | building | 87,311 | 7.0% | 0.07 | 8 | \$1,106 | 0% | 1.8 |
| PPL | Central Lighting Control System | Lighting w/ No Controls | Healthcare | Other Int. Lighting | Existing | building | 87,311 | 38% | 0.4 | 8 | \$1,106 | 13% | 9.9 |
| PPL | Central Lighting Control System | Lighting w/ No Controls | Healthcare | Other Int. Lighting | New | building | 87,311 | 14% | 0.1 | 8 | \$1,106 | 13% | 3.6 |
| PPL | Cold Cathode Screw-In Bulb | 40W Incandescent Bulb | Healthcare | Other Int. Lighting | Early | lamp | 178 | 87% | 0.03 | 8 | \$33 | 14% | 2.0 |
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Healthcare | Other Int. Lighting | Early | lamp | 128 | 81% | 0.02 | 8 | \$33 | 11% | 1.3 |
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Healthcare | Other Int. Lighting | New | lamp | 97 | 81% | 0.02 | 8 | \$24 | 14% | 1.4 |
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Healthcare | Other Int. Lighting | New | lamp | 97 | 81% | 0.02 | 8 | \$25 | 14% | 1.3 |
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Healthcare | Other Int. Lighting | New | lamp | 97 | 81% | 0.02 | 8 | \$24 | 11% | 1.3 |
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Healthcare | Other Int. Lighting | ROB | lamp | 128 | 81% | 0.02 | 8 | \$24 | 14% | 1.8 |
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Healthcare | Other Int. Lighting | ROB | lamp | 128 | 81% | 0.02 | 8 | \$25 | 14% | 1.7 |
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Healthcare | Other Int. Lighting | ROB | lamp | 128 | 81% | 0.02 | 8 | \$24 | 11% | 1.8 |
| PPL | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Healthcare | Other Int. Lighting | Early | lamp | 178 | 75% | 0.03 | 3 | \$73 | 39% | 0.3 |
| PPL | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Healthcare | Other Int. Lighting | New | lamp | 194 | 65% | 0.03 | 13 | \$29 | 46% | 2.8 |
| PPL | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Healthcare | Other Int. Lighting | New | lamp | 97 | 65% | 0.01 | 3 | \$29 | 46% | 0.4 |
| PPL | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Healthcare | Other Int. Lighting | ROB | lamp | 255 | 65% | 0.03 | 13 | \$29 | 39% | 3.7 |
| PPL | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Healthcare | Other Int. Lighting | ROB | lamp | 128 | 65% | 0.02 | 3 | \$29 | 39% | 0.5 |
| PPL | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Healthcare | Other Int. Lighting | Early | lamp | 178 | 75% | 0.03 | 3 | \$3.6 | 24% | 6.4 |
| PPL | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Healthcare | Other Int. Lighting | New | lamp | 97 | 65% | 0.01 | 3 | \$1.8 | 24% | 6.1 |
| PPL | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Healthcare | Other Int. Lighting | ROB | lamp | 128 | 65% | 0.02 | 3 | \$1.8 | 24% | 8.1 |
| PPL | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Healthcare | Other Int. Lighting | ROB | lamp | 128 | 65% | 0.02 | 3 | \$1.8 | 24% | 8.1 |
| PPL | Exit Sign Retrofit: CFL replacing Incandescent | One 23W Single Sided Incandescent Exit Sign | Healthcare | Other Int. Lighting | Early | exit sign | 138 | 42% | 0.01 | 15 | \$78 | 22% | 0.5 |
| PPL | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Healthcare | Other Int. Lighting | New | building | 87,311 | 10% | 0.1 | 15 | \$32,147 | 32% | 0.2 |
| PPL | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Healthcare | Other Int. Lighting | New | building | 87,311 | 15% | 0.2 | 15 | \$80,367 | 32% | 0.1 |
| PPL | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Healthcare | Other Int. Lighting | New | building | 87,311 | 30% | 0.3 | 15 | \$115,193 | 32% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|---|------------|---------------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Indoor Daylight Sensors | Lighting w/ No Controls | Healthcare | Other Int. Lighting | Existing | building | 87,311 | 28% | 0.3 | 8 | \$5,444 | 13% | 1.5 |
| PPL | Indoor Daylight Sensors | Lighting w/ No Controls | Healthcare | Other Int. Lighting | New | building | 87,311 | 4.1% | 0.04 | 8 | \$5,444 | 0% | 0.2 |
| PPL | LED Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Healthcare | Other Int. Lighting | Early | sign | 153 | 87% | 0.02 | 15 | \$78 | 16% | 1.1 |
| PPL | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Healthcare | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 2.0 |
| PPL | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Healthcare | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 2.0 |
| PPL | LED Task Lighting/Screw-In | 1 15W CFL bulb | Healthcare | Other Int. Lighting | Early | lamp | 37 | 33% | 0.00 | 10 | \$9.6 | 24% | 0.4 |
| PPL | LED Task Lighting/Screw-In | 1 60W Incandescent Bulb | Healthcare | Other Int. Lighting | Early | lamp | 150 | 83% | 0.03 | 10 | \$9.6 | 24% | 4.1 |
| PPL | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Healthcare | Other Int. Lighting | New | lamp | 82 | 77% | 0.01 | 10 | \$7.9 | 24% | 2.5 |
| PPL | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Healthcare | Other Int. Lighting | New | lamp | 82 | 77% | 0.01 | 10 | \$7.9 | 24% | 2.5 |
| PPL | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Healthcare | Other Int. Lighting | ROB | lamp | 107 | 77% | 0.02 | 10 | \$7.9 | 24% | 3.3 |
| PPL | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Healthcare | Other Int. Lighting | ROB | lamp | 107 | 77% | 0.02 | 10 | \$7.9 | 24% | 3.3 |
| PPL | Occupancy Sensor | Lighting w/ No Controls | Healthcare | Other Int. Lighting | Existing | building | 87,311 | 24% | 0.2 | 8 | \$1,666 | 11% | 4.1 |
| PPL | Occupancy Sensor | Lighting w/ No Controls | Healthcare | Other Int. Lighting | New | building | 87,311 | 7.0% | 0.07 | 8 | \$1,666 | 0% | 1.2 |
| PPL | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Healthcare | Other Int. Lighting | Existing | building | 87,311 | 28% | 0.3 | 8 | \$5,444 | 11% | 1.5 |
| PPL | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Healthcare | Other Int. Lighting | New | building | 87,311 | 4.1% | 0.04 | 8 | \$5,444 | 0% | 0.2 |
| PPL | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Healthcare | Other Int. Lighting | Early | exit sign | 138 | 100% | 0.02 | 15 | \$203 | 26% | 0.4 |
| PPL | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Healthcare | Other Int. Lighting | New | exit sign | 80 | 100% | 0.01 | 15 | \$148 | 31% | 0.4 |
| PPL | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Healthcare | Other Int. Lighting | ROB | exit sign | 80 | 100% | 0.01 | 15 | \$148 | 26% | 0.4 |
| PPL | Time Clock Control | Lighting w/ No Controls | Healthcare | Other Int. Lighting | Existing | building | 87,311 | 28% | 0.3 | 8 | \$1,106 | 13% | 7.3 |
| PPL | Time Clock Control | Lighting w/ No Controls | Healthcare | Other Int. Lighting | New | building | 87,311 | 4.1% | 0.04 | 8 | \$1,106 | 0% | 1.1 |
| PPL | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Healthcare | Plug Load | Existing | building | 2,913 | 46% | 0.5 | 5 | \$189 | 4% | 2.2 |
| PPL | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Healthcare | Plug Load | New | building | 1,422 | 46% | 0.5 | 5 | \$189 | 4% | 1.5 |
| PPL | Data Center - Server/Storage Consolidation | No Consolidation | Healthcare | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PPL | Data Center - Server/Storage Consolidation | No Consolidation | Healthcare | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PPL | Data Center - Server/Storage Virtualization | No Virtualization | Healthcare | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PPL | Data Center - Server/Storage Virtualization | No Virtualization | Healthcare | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PPL | Energy Star - Scanners | Std Scanner | Healthcare | Plug Load | New | measure | 68 | 3.9% | 0.04 | 4 | \$777 | 7% | 0.0 |
| PPL | Energy Star - Scanners | Std Scanner | Healthcare | Plug Load | ROB | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| PPL | Energy Star Battery Charging System (for small cordless products) | Std. Battery Charging System | Healthcare | Plug Load | ROB | measure | 593 | 2.3% | 4.8 | 5 | \$65 | 4% | 22.6 |
| PPL | Energy Star Dishwasher | Existing Dishwasher units | Healthcare | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,580 | 6% | 1.0 |
| PPL | Energy Star Dishwasher | Standard Dishwasher unit | Healthcare | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 6% | 3.2 |
| PPL | Energy Star Dishwasher | Standard Dishwasher unit | Healthcare | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 6% | 3.3 |
| PPL | Energy Star External Power Adapter | Std. Power Adapter | Healthcare | Plug Load | New | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| PPL | Energy Star External Power Adapter | Std. Power Adapter | Healthcare | Plug Load | ROB | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| PPL | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Healthcare | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 17% | 0.1 |
| PPL | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Healthcare | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 1.6 |
| PPL | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Healthcare | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 1.6 |
| PPL | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Healthcare | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 9% | 0.8 |
| PPL | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Healthcare | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.6 |
| PPL | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Healthcare | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.6 |
| PPL | ENERGY STAR® Copiers | 10% Less Efficient Copier | Healthcare | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 80% | 0.0 |
| PPL | ENERGY STAR® Copiers | One Conventional Copier | Healthcare | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 80% | 0.0 |
| PPL | ENERGY STAR® Copiers | One Conventional Copier | Healthcare | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 80% | 0.0 |
| PPL | ENERGY STAR® desktop | Standard computer | Healthcare | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 69% | 0.1 |
| PPL | ENERGY STAR® desktop | Standard computer | Healthcare | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.2 |
| PPL | ENERGY STAR® desktop | Standard computer | Healthcare | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.2 |
| PPL | ENERGY STAR® Fax | 10% Less Efficient Fax | Healthcare | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 15% | 0.0 |
| PPL | ENERGY STAR® Fax | One Conventional Fax | Healthcare | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| PPL | ENERGY STAR® Fax | One Conventional Fax | Healthcare | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| PPL | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Healthcare | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 70% | 0.0 |
| PPL | ENERGY STAR® Monitors | One Conventional Monitor | Healthcare | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| PPL | ENERGY STAR® Monitors | One Conventional Monitor | Healthcare | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| PPL | ENERGY STAR® Printers | 10% Less Efficient Printer | Healthcare | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 44% | 0.0 |
| PPL | ENERGY STAR® Printers | One Conventional Printer | Healthcare | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| PPL | ENERGY STAR® Printers | One Conventional Printer | Healthcare | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| PPL | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Healthcare | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 43% | 0.1 |
| PPL | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Healthcare | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.8 |
| PPL | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Healthcare | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.8 |
| PPL | ENERGY STAR® Televisions | 10% Less Efficient Television | Healthcare | Plug Load | Early | Unit | 230 | 38% | 0.02 | 6 | \$672 | 40% | 0.0 |
| PPL | ENERGY STAR® Televisions | One Conventional Television | Healthcare | Plug Load | New | Unit | 209 | 32% | 0.01 | 6 | \$206 | 40% | 0.1 |
| PPL | ENERGY STAR® Televisions | One Conventional Television | Healthcare | Plug Load | ROB | Unit | 209 | 32% | 0.01 | 6 | \$206 | 40% | 0.1 |
| PPL | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Healthcare | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 24% | 0.3 |
| PPL | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Healthcare | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.6 |
| PPL | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Healthcare | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.6 |
| PPL | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Healthcare | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 73% | 0.2 |
| PPL | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Healthcare | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 73% | 0.2 |
| PPL | Network PC Power Management | No PC Power Management | Healthcare | Plug Load | Existing | computer | 425 | 33% | 0.01 | 5 | \$30 | 38% | 1.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|--|------------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Network PC Power Management | No PC Power Management | Healthcare | Plug Load | New | computer | 425 | 33% | 0.01 | 5 | \$30 | 38% | 1.0 |
| PPL | Smart Strip Plug Outlets | Standard plug strip/outlet | Healthcare | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.4 |
| PPL | Smart Strip Plug Outlets | Standard plug strip/outlet | Healthcare | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.4 |
| PPL | Smart Strip Plug Outlets | Standard plug strip/outlet | Healthcare | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PPL | Smart Strip Plug Outlets | Standard plug strip/outlet | Healthcare | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PPL | Smart Strip Plug Outlets | Standard plug strip/outlet | Healthcare | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PPL | Smart Strip Plug Outlets | Standard plug strip/outlet | Healthcare | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PPL | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Healthcare | Plug Load | Existing | building | 2,913 | 46% | 0.5 | 5 | \$180 | 3% | 2.3 |
| PPL | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Healthcare | Plug Load | New | building | 1,422 | 46% | 0.5 | 5 | \$180 | 3% | 1.5 |
| PPL | Air curtain technology | Strip plastic curtain | Healthcare | Refrigeration | New | building | 1,941 | 6.8% | 0.07 | 8 | \$1,660 | 35% | 0.0 |
| PPL | Air curtain technology | Strip plastic curtain | Healthcare | Refrigeration | New | building | 22,414 | 6.8% | 0.07 | 8 | \$1,660 | 35% | 0.3 |
| PPL | Auto Closer on Refrigerator Door | Door w/out Autocloser | Healthcare | Refrigeration | Existing | building | 1,941 | 11% | 0.1 | 8 | \$749 | 40% | 0.1 |
| PPL | Auto Closer on Refrigerator Door | Door w/out Autocloser | Healthcare | Refrigeration | Existing | building | 22,414 | 6.7% | 0.07 | 8 | \$833 | 40% | 0.6 |
| PPL | Auto Closer on Refrigerator Door | Door w/out Autocloser | Healthcare | Refrigeration | New | building | 1,941 | 11% | 0.1 | 8 | \$749 | 40% | 0.1 |
| PPL | Auto Closer on Refrigerator Door | Door w/out Autocloser | Healthcare | Refrigeration | New | building | 22,414 | 6.7% | 0.07 | 8 | \$833 | 40% | 0.6 |
| PPL | Door Gasket- Freezer | Door w/out Gasket | Healthcare | Refrigeration | Existing | building | 1,941 | 5.8% | 0.06 | 4 | \$77 | 29% | 0.4 |
| PPL | Door Gasket- Freezer | Door w/out Gasket | Healthcare | Refrigeration | New | building | 1,941 | 5.8% | 0.06 | 4 | \$77 | 29% | 0.4 |
| PPL | Door Gasket- Refrigerator | Door w/out Gasket | Healthcare | Refrigeration | Existing | building | 22,414 | 2.1% | 0.02 | 4 | \$115 | 45% | 0.7 |
| PPL | Door Gasket- Refrigerator | Door w/out Gasket | Healthcare | Refrigeration | New | building | 22,414 | 2.1% | 0.02 | 4 | \$115 | 45% | 0.7 |
| PPL | Economizer for Walk-in Coolers | No Economizer | Healthcare | Refrigeration | Early | measure | 25,239 | 6.6% | 0.2 | 10 | \$293 | 72% | 2.5 |
| PPL | Economizer for Walk-in Coolers | No Economizer | Healthcare | Refrigeration | Early | measure | 25,239 | 6.6% | 0.2 | 10 | \$293 | 72% | 2.5 |
| PPL | Economizer for Walk-in Coolers | No Economizer | Healthcare | Refrigeration | Early | measure | 25,239 | 6.6% | 0.2 | 10 | \$293 | 72% | 2.5 |
| PPL | Economizer for Walk-in Coolers | No Economizer | Healthcare | Refrigeration | New | measure | 25,239 | 6.6% | 0.2 | 10 | \$35 | 72% | 21.4 |
| PPL | Economizer for Walk-in Coolers | No Economizer | Healthcare | Refrigeration | New | measure | 25,239 | 6.6% | 0.2 | 10 | \$35 | 72% | 21.4 |
| PPL | Economizer for Walk-in Coolers | No Economizer | Healthcare | Refrigeration | New | measure | 25,239 | 6.6% | 0.2 | 10 | \$35 | 72% | 21.4 |
| PPL | Economizer for Walk-in Coolers | No Economizer | Healthcare | Refrigeration | ROB | measure | 25,239 | 6.6% | 0.2 | 10 | \$35 | 72% | 21.4 |
| PPL | Economizer for Walk-in Coolers | No Economizer | Healthcare | Refrigeration | ROB | measure | 25,239 | 6.6% | 0.2 | 10 | \$35 | 72% | 21.4 |
| PPL | Economizer for Walk-in Coolers | No Economizer | Healthcare | Refrigeration | ROB | measure | 25,239 | 6.6% | 0.2 | 10 | \$35 | 72% | 21.4 |
| PPL | eCube | Refrigeration unit w/out eCube | Healthcare | Refrigeration | Existing | building | 22,414 | 15% | 0.2 | 15 | \$443 | 57% | 4.3 |
| PPL | eCube | Refrigeration unit w/out eCube | Healthcare | Refrigeration | New | building | 22,414 | 15% | 0.2 | 15 | \$443 | 57% | 4.3 |
| PPL | Efficient compressor motor | Base Refrigeration System - Grocery | Healthcare | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| PPL | Efficient compressor motor | Base Refrigeration System - Grocery | Healthcare | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| PPL | Efficient compressor motor | Base Refrigeration System - Grocery | Healthcare | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| PPL | Efficient compressor motor | Base Refrigeration System - Grocery | Healthcare | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| PPL | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Healthcare | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.6 |
| PPL | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Healthcare | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| PPL | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Healthcare | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| PPL | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Healthcare | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.3 |
| PPL | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Healthcare | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.7 |
| PPL | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Healthcare | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.7 |
| PPL | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Healthcare | Refrigeration | Existing | building | 22,414 | 0.7% | 0.01 | 10 | \$369 | 77% | 0.2 |
| PPL | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Healthcare | Refrigeration | New | building | 22,414 | 0.7% | 0.01 | 10 | \$369 | 77% | 0.2 |
| PPL | Floating head pressure controller | System w/out FHPC | Healthcare | Refrigeration | Existing | building | 1,941 | 1.0% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| PPL | Floating head pressure controller | System w/out FHPC | Healthcare | Refrigeration | Existing | building | 22,414 | 0.4% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| PPL | Floating head pressure controller | System w/out FHPC | Healthcare | Refrigeration | New | building | 1,941 | 1.0% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| PPL | Floating head pressure controller | System w/out FHPC | Healthcare | Refrigeration | New | building | 22,414 | 0.4% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| PPL | High Efficiency Commercial Freezer | Std. Commercial Freezer | Healthcare | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 84% | 0.3 |
| PPL | High Efficiency Commercial Freezer | Std. Commercial Freezer | Healthcare | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 84% | 3.9 |
| PPL | High Efficiency Commercial Freezer | Std. Commercial Freezer | Healthcare | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 84% | 3.9 |
| PPL | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Healthcare | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 21% | 0.1 |
| PPL | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Healthcare | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 21% | 0.9 |
| PPL | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Healthcare | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 21% | 0.9 |
| PPL | High Efficiency Ice Maker | Existing Standard Efficiency Ice Maker in Pennsylvania | Healthcare | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 69% | 0.2 |
| PPL | High Efficiency Ice Maker | Standard code minimum Ice Maker | Healthcare | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 69% | 0.2 |
| PPL | High Efficiency Ice Maker | Standard code minimum Ice Maker | Healthcare | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 69% | 0.2 |
| PPL | High Efficiency Ice Making Head | Standard Ice Making Head | Healthcare | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.7 |
| PPL | High Efficiency Ice Making Head | Standard Ice Making Head | Healthcare | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.7 |
| PPL | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Healthcare | Refrigeration | Early | Fixture | 373 | 56% | 0.02 | 8 | \$448 | 86% | 0.2 |
| PPL | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Healthcare | Refrigeration | New | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 86% | 0.3 |
| PPL | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Healthcare | Refrigeration | ROB | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 86% | 0.3 |
| PPL | Quick acting freezer doors | Std. Freezer Doors | Healthcare | Refrigeration | Existing | building | 1,941 | 13% | 0.1 | 10 | \$2,003 | 56% | 0.1 |
| PPL | Quick acting freezer doors | Std. Freezer Doors | Healthcare | Refrigeration | New | building | 1,941 | 13% | 0.1 | 10 | \$2,003 | 56% | 0.1 |
| PPL | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Healthcare | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 29% | 0.4 |
| PPL | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Healthcare | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 29% | 1.6 |
| PPL | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Healthcare | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 29% | 1.6 |
| PPL | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 29% | 1.6 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|--|------------|-----------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 29% | 2.8 |
| PPL | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 29% | 2.8 |
| PPL | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 29% | 1.6 |
| PPL | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 29% | 3.8 |
| PPL | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 29% | 3.8 |
| PPL | Refrigeration Commissioning | Non-commissioned refrigeration system | Healthcare | Refrigeration | Existing | building | 25,239 | 9.5% | 0.10 | 3 | \$1,147 | 85% | 0.3 |
| PPL | Refrigeration Commissioning | Non-commissioned refrigeration system | Healthcare | Refrigeration | New | building | 25,239 | 9.5% | 0.10 | 3 | \$1,147 | 85% | 0.3 |
| PPL | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Healthcare | Refrigeration | Existing | building | 1,941 | 14% | 0.1 | 4 | \$93 | 22% | 0.8 |
| PPL | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Healthcare | Refrigeration | Existing | building | 22,414 | 2.9% | 0.03 | 4 | \$140 | 22% | 0.8 |
| PPL | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Healthcare | Refrigeration | New | building | 1,941 | 14% | 0.1 | 4 | \$93 | 22% | 0.8 |
| PPL | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Healthcare | Refrigeration | New | building | 22,414 | 2.9% | 0.03 | 4 | \$140 | 22% | 0.8 |
| PPL | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Healthcare | Refrigeration | Existing | building | 1,941 | 2.6% | 0.03 | 11 | \$130 | 77% | 0.3 |
| PPL | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Healthcare | Refrigeration | New | building | 1,941 | 2.6% | 0.03 | 11 | \$130 | 77% | 0.3 |
| PPL | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Healthcare | Refrigeration | Existing | building | 22,414 | 2.0% | 0.02 | 11 | \$130 | 77% | 1.5 |
| PPL | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Healthcare | Refrigeration | New | building | 22,414 | 2.0% | 0.02 | 11 | \$130 | 77% | 1.5 |
| PPL | Vendor Miser | No Vendor Miser | Healthcare | Refrigeration | Existing | machine | 883 | 12% | 0.1 | 8 | \$88 | 7% | 1.0 |
| PPL | VSD Controlled Compressor | Compressor w/out VSD | Healthcare | Refrigeration | Early | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 73% | 0.1 |
| PPL | VSD Controlled Compressor | Compressor w/out VSD | Healthcare | Refrigeration | New | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 73% | 0.1 |
| PPL | VSD Controlled Compressor | Compressor w/out VSD | Healthcare | Refrigeration | ROB | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 73% | 0.1 |
| PPL | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Healthcare | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$269 | 23% | 0.9 |
| PPL | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Healthcare | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$269 | 23% | 0.8 |
| PPL | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Healthcare | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 23% | 3.0 |
| PPL | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Healthcare | Refrigeration | New | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 23% | 2.9 |
| PPL | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Healthcare | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 23% | 3.0 |
| PPL | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Healthcare | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 23% | 2.9 |
| PPL | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 23% | 2.3 |
| PPL | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 23% | 2.2 |
| PPL | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$151 | 23% | 4.1 |
| PPL | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$151 | 23% | 3.9 |
| PPL | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$151 | 23% | 4.1 |
| PPL | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Healthcare | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$151 | 23% | 3.9 |
| PPL | Adding reflective roof treatment | Std color roof | Healthcare | Space Heating | Existing | building | 33,999 | 7.1% | 0.07 | 6 | \$15,261 | 82% | 0.0 |
| PPL | Adding reflective roof treatment | Std color roof | Healthcare | Space Heating | New | building | 33,999 | 7.1% | 0.07 | 6 | \$15,261 | 82% | 0.0 |
| PPL | Adding window shade film | No shade film | Healthcare | Space Heating | Existing | building | 33,999 | 1.3% | 0.4 | 10 | \$414 | 13% | 0.9 |
| PPL | Adding window shade film | No shade film | Healthcare | Space Heating | New | building | 33,999 | 1.3% | 0.4 | 10 | \$414 | 13% | 0.9 |
| PPL | Adding window shade screen | No shade screen | Healthcare | Space Heating | Existing | building | 33,999 | 1.1% | 0.01 | 10 | \$160 | 13% | 0.9 |
| PPL | Adding window shade screen | No shade screen | Healthcare | Space Heating | New | building | 33,999 | 1.1% | 0.01 | 10 | \$160 | 13% | 0.9 |
| PPL | Automated control system | Manual Controls | Healthcare | Space Heating | Existing | building | 33,999 | 17% | 0.2 | 15 | \$37,221 | 51% | 0.1 |
| PPL | Automated control system | Manual Controls | Healthcare | Space Heating | New | building | 33,999 | 17% | 0.2 | 15 | \$37,221 | 94% | 0.1 |
| PPL | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Healthcare | Space Heating | Existing | building | 33,999 | 1.1% | 0.01 | 15 | \$20,566 | 71% | 0.0 |
| PPL | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Healthcare | Space Heating | New | building | 33,999 | 0.3% | 0.00 | 15 | \$19,549 | 94% | 0.0 |
| PPL | Duct Insulation, Add R8 | No Insulation | Healthcare | Space Heating | Existing | building | 33,999 | 1.4% | 0.04 | 15 | \$270 | 20% | 1.1 |
| PPL | Duct Insulation, Add R8 | No Insulation | Healthcare | Space Heating | New | building | 33,999 | 1.4% | 0.04 | 15 | \$270 | 10% | 1.1 |
| PPL | Efficient Unit Heating System | Existing Unit Heaters in PA | Healthcare | Space Heating | Early | heater | 18,031 | 23% | 0.03 | 15 | \$3,289 | 83% | 0.7 |
| PPL | Efficient Unit Heating System | Std. Unit Heater | Healthcare | Space Heating | New | heater | 16,002 | 13% | 0.02 | 15 | \$1,985 | 83% | 0.6 |
| PPL | Facility Commissioning | No Facility Commissioning | Healthcare | Space Heating | New | building | 33,999 | 16% | 0.2 | 10 | \$68,571 | 89% | 0.0 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Healthcare | Space Heating | Existing | building | 33,999 | 7.1% | 0.07 | 15 | \$150,812 | 25% | 0.0 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Healthcare | Space Heating | New | building | 33,999 | 7.1% | 0.07 | 15 | \$150,812 | 35% | 0.0 |
| PPL | Hi Eff HVAC System Design | No HVAC Design | Healthcare | Space Heating | New | building | 33,999 | 8.6% | 0.09 | 10 | \$666,890 | 51% | 0.0 |
| PPL | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Healthcare | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$77 | 32% | 1.0 |
| PPL | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Healthcare | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$77 | 32% | 1.0 |
| PPL | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Healthcare | Space Heating | Existing | building | 33,999 | 2.1% | 0.02 | 10 | \$7,735 | 81% | 0.0 |
| PPL | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Healthcare | Space Heating | New | building | 33,999 | 2.1% | 0.02 | 10 | \$7,735 | 81% | 0.0 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Healthcare | Space Heating | Existing | building | 33,999 | 3.6% | 0.04 | 11 | \$286 | 49% | 1.9 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Healthcare | Space Heating | New | building | 33,999 | 3.1% | 0.03 | 11 | \$146 | 49% | 3.1 |
| PPL | Re-Commissioning (Existing Construction) | No Re-Commissioning | Healthcare | Space Heating | Existing | building | 33,999 | 16% | 0.2 | 5 | \$8,847 | 86% | 0.1 |
| PPL | VFD on Cooling Tower Fan | Motor w/out VFD | Healthcare | Space Heating | Early | motor | 43,595 | 70% | 3.4 | 15 | \$2,843 | 88% | 6.7 |
| PPL | VFD on Cooling Tower Fan | Motor w/out VFD | Healthcare | Space Heating | New | motor | 42,779 | 72% | 3.3 | 15 | \$2,843 | 88% | 6.7 |
| PPL | VFD on Cooling Tower Fan | Motor w/out VFD | Healthcare | Space Heating | ROB | motor | 42,779 | 72% | 3.3 | 15 | \$2,843 | 88% | 6.7 |
| PPL | Wall Insualtions (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Healthcare | Space Heating | Existing | building | 33,999 | 2.6% | 0.03 | 15 | \$5,624 | 26% | 0.1 |
| PPL | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Healthcare | Space Heating | New | building | 33,999 | 0.1% | 0.00 | 15 | \$4,314 | 94% | 0.0 |
| PPL | Green LED Traffic Light | Green Incandescent Traffic Light | Healthcare | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 0% | 1.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|---|------------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Green LED Traffic Light | Green Incandescent Traffic Light | Healthcare | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| PPL | Green LED Traffic Light | Green Incandescent Traffic Light | Healthcare | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| PPL | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Healthcare | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 0% | 3.0 |
| PPL | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Healthcare | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| PPL | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Healthcare | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| PPL | Induction Street Lighting | One 100W HPS Street Light Fixture | Healthcare | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 0% | 0.3 |
| PPL | Induction Street Lighting | One 100W HPS Street Light Fixture | Healthcare | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.7 |
| PPL | Induction Street Lighting | One 100W HPS Street Light Fixture | Healthcare | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.7 |
| PPL | LED Street Lighting | One 100W HPS Street Light | Healthcare | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 0% | 0.2 |
| PPL | LED Street Lighting | One 100W HPS Street Light | Healthcare | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| PPL | LED Street Lighting | One 100W HPS Street Light | Healthcare | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| PPL | Red LED Traffic Light | One Red Incandescent Traffic Light | Healthcare | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 0% | 1.6 |
| PPL | Red LED Traffic Light | One Red Incandescent Traffic Light | Healthcare | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| PPL | Red LED Traffic Light | One Red Incandescent Traffic Light | Healthcare | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| PPL | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Healthcare | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 0% | 0.1 |
| PPL | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Healthcare | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| PPL | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Healthcare | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| PPL | Demand controlled Circulating Systems | Constant circulation system | Healthcare | Water Heating | Existing | building | 1,963 | 20% | 0.2 | 15 | \$356 | 59% | 1.0 |
| PPL | Demand controlled Circulating Systems | Constant circulation system | Healthcare | Water Heating | New | building | 1,963 | 20% | 0.2 | 15 | \$356 | 59% | 1.0 |
| PPL | Drainwater Heat Recovery Water Heater | No heat recovery | Healthcare | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.9 |
| PPL | Drainwater Heat Recovery Water Heater | No heat recovery | Healthcare | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.9 |
| PPL | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Healthcare | Water Heating | Existing | building | 1,963 | 5.9% | 0.06 | 12 | \$140 | 85% | 0.6 |
| PPL | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Healthcare | Water Heating | New | building | 1,963 | 5.9% | 0.06 | 12 | \$40 | 85% | 2.2 |
| PPL | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Healthcare | Water Heating | Early | water heater | 96,871 | 66% | 11.3 | 10 | \$5,176 | 68% | 6.0 |
| PPL | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Healthcare | Water Heating | Early | water heater | 96,871 | 66% | 11.3 | 10 | \$5,176 | 68% | 6.0 |
| PPL | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Healthcare | Water Heating | New | water heater | 96,871 | 66% | 11.3 | 10 | \$3,562 | 68% | 8.7 |
| PPL | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Healthcare | Water Heating | New | water heater | 96,871 | 66% | 11.3 | 10 | \$3,562 | 68% | 8.7 |
| PPL | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Healthcare | Water Heating | ROB | water heater | 94,180 | 65% | 10.9 | 10 | \$3,562 | 68% | 8.3 |
| PPL | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Healthcare | Water Heating | ROB | water heater | 94,180 | 65% | 10.9 | 10 | \$3,562 | 68% | 8.3 |
| PPL | Heat Recovery Unit | Base Water Heating | Healthcare | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.6 |
| PPL | Heat Recovery Unit | Base Water Heating | Healthcare | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.6 |
| PPL | Heat Trap | No Heat Trap | Healthcare | Water Heating | Existing | building | 1,963 | 1.0% | 0.01 | 11 | \$0.4 | 50% | 37.9 |
| PPL | Heat Trap | No Heat Trap | Healthcare | Water Heating | New | building | 1,963 | 1.0% | 0.01 | 11 | \$0.1 | 50% | 98.8 |
| PPL | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Healthcare | Water Heating | Early | water heater | 96,871 | 5.9% | 1.0 | 15 | \$2,235 | 79% | 1.8 |
| PPL | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Healthcare | Water Heating | Early | water heater | 96,871 | 5.9% | 1.0 | 15 | \$2,235 | 79% | 1.8 |
| PPL | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Healthcare | Water Heating | New | water heater | 94,180 | 3.2% | 0.5 | 15 | \$921 | 79% | 2.3 |
| PPL | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Healthcare | Water Heating | New | water heater | 94,180 | 3.2% | 0.5 | 15 | \$921 | 79% | 2.3 |
| PPL | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Healthcare | Water Heating | ROB | water heater | 94,180 | 3.2% | 0.5 | 15 | \$921 | 79% | 2.3 |
| PPL | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Healthcare | Water Heating | ROB | water heater | 94,180 | 3.2% | 0.5 | 15 | \$921 | 79% | 2.3 |
| PPL | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Healthcare | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$646 | 81% | 28.2 |
| PPL | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Healthcare | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 20.4 |
| PPL | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Healthcare | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 20.4 |
| PPL | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Healthcare | Water Heating | Existing | building | 1,963 | 3.1% | 0.03 | 13 | \$9.2 | 68% | 5.5 |
| PPL | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Healthcare | Water Heating | New | building | 1,963 | 3.1% | 0.03 | 13 | \$9.2 | 0% | 5.5 |
| PPL | Hot Water Circulation Pump Time-Clock | Constant circulation system | Healthcare | Water Heating | Existing | building | 1,963 | 5.3% | 0.05 | 10 | \$7.9 | 72% | 8.7 |
| PPL | Hot Water Circulation Pump Time-Clock | Constant circulation system | Healthcare | Water Heating | New | building | 1,963 | 5.3% | 0.05 | 10 | \$7.9 | 72% | 8.7 |
| PPL | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Healthcare | Water Heating | Existing | building | 1,744 | 0.1% | 0.00 | 7 | \$22 | 78% | 0.0 |
| PPL | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Healthcare | Water Heating | New | building | 1,744 | 0.1% | 0.00 | 7 | \$0.5 | 78% | 2.0 |
| PPL | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Healthcare | Water Heating | Existing | building | 1,963 | 9.7% | 0.10 | 5 | \$300 | 20% | 0.2 |
| PPL | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Healthcare | Water Heating | New | building | 1,963 | 6.4% | 0.06 | 5 | \$194 | 20% | 0.2 |
| PPL | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Healthcare | Water Heating | Existing | building | 1,963 | 6.5% | 0.07 | 9 | \$250 | 9% | 0.3 |
| PPL | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Healthcare | Water Heating | New | building | 1,963 | 6.5% | 0.07 | 9 | \$60 | 9% | 1.3 |
| PPL | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Healthcare | Water Heating | Early | water heater | 96,871 | 52% | 4.1 | 15 | \$20,280 | 32% | 1.6 |
| PPL | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Healthcare | Water Heating | New | water heater | 94,180 | 51% | 3.9 | 15 | \$18,666 | 32% | 1.6 |
| PPL | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Healthcare | Water Heating | ROB | water heater | 94,180 | 51% | 3.9 | 15 | \$18,666 | 32% | 1.6 |
| PPL | Ultrasonic Faucet Control | Manual Faucet Control | Healthcare | Water Heating | Existing | building | 1,963 | 3.0% | 0.03 | 10 | \$339 | 77% | 0.1 |
| PPL | Ultrasonic Faucet Control | Manual Faucet Control | Healthcare | Water Heating | New | building | 1,963 | 3.1% | 0.03 | 10 | \$339 | 77% | 0.1 |
| PPL | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Healthcare | Water Heating | Existing | building | 1,963 | 2.2% | 0.02 | 4 | \$28 | 83% | 0.5 |
| PPL | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Healthcare | Water Heating | New | building | 1,963 | 2.3% | 0.02 | 4 | \$28 | 83% | 0.5 |
| PPL | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Lodging | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.1 |
| PPL | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Lodging | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.1 |
| PPL | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Lodging | Cooking | Early | steamer | 51 | 46% | 0.00 | 12 | \$5,103 | 81% | 0.0 |
| PPL | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Lodging | Cooking | New | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| PPL | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Lodging | Cooking | ROB | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| PPL | Electric combination oven (Energy Star) | Standard Oven | Lodging | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.9 |
| PPL | Electric combination oven (Energy Star) | Standard Oven | Lodging | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.9 |
| PPL | Electric Convection Oven | Conventional convection oven w/ 65% efficiency | Lodging | Cooking | Early | oven | 8,641 | 37% | 0.6 | 12 | \$4,169 | 81% | 0.4 |
| PPL | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Lodging | Cooking | New | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.7 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|---|---------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Lodging | Cooking | ROB | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.7 |
| PPL | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Lodging | Cooking | Early | fryer | 6,105 | 23% | 0.3 | 12 | \$9,291 | 86% | 0.1 |
| PPL | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Lodging | Cooking | New | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| PPL | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Lodging | Cooking | ROB | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| PPL | High Efficiency Griddle (ENERGY STAR) | Efficiency code minimum griddle (70% eff) | Lodging | Cooking | Early | griddle | 11,317 | 65% | 1.4 | 12 | \$4,992 | 86% | 0.8 |
| PPL | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Lodging | Cooking | New | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.2 |
| PPL | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Lodging | Cooking | ROB | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.2 |
| PPL | High Efficiency Induction Cooking | Standard Cooking | Lodging | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| PPL | High Efficiency Induction Cooking | Standard Cooking | Lodging | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| PPL | Adding reflective roof treatment | Std color roof | Lodging | Cooling Central | Existing | building | 5,023 | 7.0% | 0.07 | 6 | \$17,476 | 82% | 0.0 |
| PPL | Adding reflective roof treatment | Std color roof | Lodging | Cooling Central | New | building | 5,023 | 7.0% | 0.07 | 6 | \$17,476 | 82% | 0.0 |
| PPL | Adding window shade film | No shade film | Lodging | Cooling Central | Existing | building | 5,023 | 1.3% | 0.4 | 10 | \$61 | 12% | 3.6 |
| PPL | Adding window shade film | No shade film | Lodging | Cooling Central | New | building | 5,023 | 1.3% | 0.4 | 10 | \$61 | 13% | 3.6 |
| PPL | Adding window shade screen | No shade screen | Lodging | Cooling Central | Existing | building | 5,023 | 1.1% | 0.01 | 10 | \$24 | 13% | 1.0 |
| PPL | Adding window shade screen | No shade screen | Lodging | Cooling Central | New | building | 5,023 | 1.1% | 0.01 | 10 | \$24 | 13% | 1.0 |
| PPL | Automated control system | Manual Controls | Lodging | Cooling Central | Existing | building | 5,023 | 17% | 0.2 | 15 | \$5,499 | 51% | 0.1 |
| PPL | Automated control system | Manual Controls | Lodging | Cooling Central | New | building | 5,023 | 17% | 0.2 | 15 | \$5,499 | 94% | 0.1 |
| PPL | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Lodging | Cooling Central | Existing | building | 5,023 | 3.3% | 0.03 | 15 | \$23,552 | 71% | 0.0 |
| PPL | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Lodging | Cooling Central | New | building | 5,023 | 1.1% | 0.01 | 15 | \$22,387 | 94% | 0.0 |
| PPL | Chiller Tuneup/Diagnostics | No tuneup | Lodging | Cooling Central | Existing | building | 5,023 | 8.0% | 0.08 | 10 | \$12,825 | 59% | 0.0 |
| PPL | Chiller Tuneup/Diagnostics | No tuneup | Lodging | Cooling Central | New | building | 5,023 | 8.0% | 0.08 | 10 | \$12,825 | 59% | 0.0 |
| PPL | Commercial energy recovery ventilation systems | No Commercial Recovery System | Lodging | Cooling Central | Existing | building | 5,151 | 16% | 0.2 | 14 | \$4,655 | 71% | 0.1 |
| PPL | Cooling Tower Optimization | No Cooling Tower Optimization | Lodging | Cooling Central | Existing | building | 5,151 | 20% | 0.2 | 10 | \$32 | 69% | 14.9 |
| PPL | Duct Insulation, Add R8 | No Insulation | Lodging | Cooling Central | Existing | building | 5,023 | 1.4% | 0.04 | 15 | \$40 | 20% | 1.6 |
| PPL | Duct Insulation, Add R8 | No Insulation | Lodging | Cooling Central | New | building | 5,023 | 1.4% | 0.04 | 15 | \$40 | 10% | 1.6 |
| PPL | Facility Commissioning | No Facility Commissioning | Lodging | Cooling Central | New | building | 5,151 | 16% | 0.2 | 10 | \$2,354 | 89% | 0.2 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Lodging | Cooling Central | Existing | building | 5,023 | 7.0% | 0.07 | 15 | \$22,280 | 25% | 0.0 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Lodging | Cooling Central | New | building | 5,023 | 7.0% | 0.07 | 15 | \$22,280 | 35% | 0.0 |
| PPL | Hi Eff HVAC System Design | No HVAC Design | Lodging | Cooling Central | New | building | 5,151 | 7.3% | 0.07 | 10 | \$67,378 | 51% | 0.0 |
| PPL | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Lodging | Cooling Central | Early | ton | 13,671 | 24% | 1.1 | 15 | \$108,550 | 88% | 0.0 |
| PPL | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Lodging | Cooling Central | New | ton | 11,176 | 6.7% | 0.3 | 15 | \$12,927 | 88% | 0.0 |
| PPL | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Lodging | Cooling Central | ROB | ton | 11,176 | 6.7% | 0.3 | 15 | \$12,927 | 88% | 0.0 |
| PPL | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Lodging | Cooling Central | Early | ton | 20,428 | 23% | 1.7 | 15 | \$140,105 | 88% | 0.0 |
| PPL | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Lodging | Cooling Central | New | ton | 16,435 | 4.9% | 0.3 | 15 | \$9,336 | 88% | 0.1 |
| PPL | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Lodging | Cooling Central | ROB | ton | 16,435 | 4.9% | 0.3 | 15 | \$9,336 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Lodging | Cooling Central | Early | ton | 167,232 | 26% | 15.0 | 15 | \$105,354 | 88% | 0.3 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Lodging | Cooling Central | New | ton | 145,707 | 15% | 7.6 | 15 | \$30,530 | 88% | 0.6 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Lodging | Cooling Central | ROB | ton | 145,707 | 15% | 7.6 | 15 | \$30,530 | 88% | 0.6 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Lodging | Cooling Central | Early | ton | 250,468 | 23% | 19.9 | 15 | \$154,107 | 88% | 0.3 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Lodging | Cooling Central | New | ton | 230,086 | 16% | 12.8 | 15 | \$27,646 | 88% | 1.0 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Lodging | Cooling Central | ROB | ton | 250,468 | 23% | 19.9 | 15 | \$27,646 | 88% | 1.6 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Lodging | Cooling Central | Early | ton | 415,980 | 23% | 32.7 | 15 | \$302,924 | 88% | 0.2 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Lodging | Cooling Central | New | ton | 376,492 | 14% | 18.9 | 15 | \$115,432 | 88% | 0.4 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Lodging | Cooling Central | ROB | ton | 415,980 | 23% | 32.7 | 15 | \$115,432 | 88% | 0.6 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Lodging | Cooling Central | Early | ton | 499,176 | 23% | 39.2 | 15 | \$350,154 | 88% | 0.3 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Lodging | Cooling Central | New | ton | 451,790 | 14% | 22.7 | 15 | \$120,406 | 88% | 0.4 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Lodging | Cooling Central | ROB | ton | 499,176 | 23% | 39.2 | 15 | \$120,406 | 88% | 0.7 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Lodging | Cooling Central | Early | ton | 110,647 | 29% | 11.3 | 15 | \$83,632 | 88% | 0.3 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Lodging | Cooling Central | New | ton | 85,916 | 8.9% | 2.7 | 15 | \$40,211 | 88% | 0.2 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Lodging | Cooling Central | ROB | ton | 110,647 | 29% | 11.3 | 15 | \$40,211 | 88% | 0.6 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Lodging | Cooling Central | Early | ton | 190,118 | 35% | 23.0 | 15 | \$132,173 | 88% | 0.4 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Lodging | Cooling Central | New | ton | 141,796 | 13% | 6.2 | 15 | \$39,556 | 88% | 0.4 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|---|---------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Lodging | Cooling Central | ROB | ton | 141,796 | 13% | 6.2 | 15 | \$39,556 | 88% | 0.4 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Lodging | Cooling Central | Early | ton | 317,418 | 39% | 43.2 | 15 | \$187,029 | 88% | 0.5 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Lodging | Cooling Central | New | ton | 226,314 | 15% | 11.5 | 15 | \$33,554 | 88% | 0.8 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Lodging | Cooling Central | ROB | ton | 317,418 | 39% | 43.2 | 15 | \$33,554 | 88% | 2.9 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Lodging | Cooling Central | Early | ton | 55,543 | 30% | 5.7 | 15 | \$32,398 | 88% | 0.4 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Lodging | Cooling Central | New | ton | 44,006 | 11% | 1.7 | 15 | \$7,188 | 88% | 0.5 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Lodging | Cooling Central | ROB | ton | 55,543 | 30% | 5.7 | 15 | \$7,188 | 88% | 1.8 |
| PPL | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Lodging | Cooling Central | Existing | building | 5,023 | 3.5% | 0.04 | 10 | \$2,396 | 81% | 0.0 |
| PPL | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Lodging | Cooling Central | New | building | 5,023 | 3.5% | 0.04 | 10 | \$2,396 | 81% | 0.0 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Lodging | Cooling Central | Existing | building | 5,023 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.2 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Lodging | Cooling Central | New | building | 5,023 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.3 |
| PPL | Re-Commissioning (Existing Construction) | No Re-Commissioning | Lodging | Cooling Central | Existing | building | 5,023 | 16% | 0.2 | 5 | \$12,530 | 86% | 0.0 |
| PPL | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Lodging | Cooling Central | Existing | building | 5,023 | 8.0% | 0.08 | 15 | \$6,019 | 26% | 0.0 |
| PPL | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Lodging | Cooling Central | New | building | 5,023 | 0.2% | 0.00 | 15 | \$4,617 | 94% | 0.0 |
| PPL | <65k BTU/hr 14 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Lodging | Cooling Unitary | Early | ton | 4,238 | 16% | 0.4 | 15 | \$1,545 | 29% | 0.4 |
| PPL | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Lodging | Cooling Unitary | New | ton | 3,838 | 7.1% | 0.1 | 15 | \$339 | 29% | 0.7 |
| PPL | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Lodging | Cooling Unitary | ROB | ton | 3,838 | 7.1% | 0.1 | 15 | \$339 | 29% | 0.7 |
| PPL | <65k BTU/hr 15 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Lodging | Cooling Unitary | Early | ton | 4,238 | 22% | 0.3 | 15 | \$1,821 | 30% | 0.4 |
| PPL | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Lodging | Cooling Unitary | New | ton | 3,838 | 13% | 0.5 | 15 | \$714 | 30% | 0.9 |
| PPL | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Lodging | Cooling Unitary | ROB | ton | 3,838 | 13% | 0.5 | 15 | \$714 | 30% | 0.9 |
| PPL | <65k BTU/hr 16 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Lodging | Cooling Unitary | Early | ton | 4,238 | 26% | 0.6 | 15 | \$2,098 | 31% | 0.5 |
| PPL | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Lodging | Cooling Unitary | New | ton | 3,838 | 19% | 0.4 | 15 | \$1,089 | 31% | 0.6 |
| PPL | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Lodging | Cooling Unitary | ROB | ton | 3,838 | 19% | 0.4 | 15 | \$1,089 | 31% | 0.6 |
| PPL | >760k min 10.2 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Lodging | Cooling Unitary | Early | ton | 107,219 | 3.7% | 2.1 | 15 | \$68,066 | 56% | 0.1 |
| PPL | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Lodging | Cooling Unitary | New | ton | 108,594 | 4.9% | 2.8 | 15 | \$6,231 | 56% | 0.8 |
| PPL | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Lodging | Cooling Unitary | ROB | ton | 108,594 | 4.9% | 2.8 | 15 | \$6,231 | 56% | 0.8 |
| PPL | 135-240k min 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Lodging | Cooling Unitary | Early | ton | 26,843 | 18% | 2.5 | 15 | \$18,135 | 79% | 0.2 |
| PPL | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Lodging | Cooling Unitary | New | ton | 24,418 | 10.0% | 1.2 | 15 | \$1,948 | 79% | 1.1 |
| PPL | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Lodging | Cooling Unitary | ROB | ton | 24,418 | 10.0% | 1.2 | 15 | \$1,948 | 79% | 1.1 |
| PPL | 240k-760k min 11 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Lodging | Cooling Unitary | Early | ton | 70,539 | 9.0% | 3.3 | 15 | \$44,809 | 66% | 0.1 |
| PPL | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Lodging | Cooling Unitary | New | ton | 70,714 | 9.3% | 3.4 | 15 | \$4,813 | 66% | 1.2 |
| PPL | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Lodging | Cooling Unitary | ROB | ton | 70,714 | 9.3% | 3.4 | 15 | \$4,813 | 66% | 1.2 |
| PPL | 65k-135k BTU/hr 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Lodging | Cooling Unitary | Early | ton | 15,551 | 17% | 1.4 | 15 | \$10,946 | 86% | 0.2 |
| PPL | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Lodging | Cooling Unitary | New | ton | 13,860 | 6.7% | 0.5 | 15 | \$1,392 | 86% | 0.6 |
| PPL | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Lodging | Cooling Unitary | ROB | ton | 13,860 | 6.7% | 0.5 | 15 | \$1,392 | 86% | 0.6 |
| PPL | Adding reflective roof treatment | Std color roof | Lodging | Cooling Unitary | Existing | building | 59,915 | 7.1% | 0.07 | 6 | \$17,476 | 82% | 0.1 |
| PPL | Adding reflective roof treatment | Std color roof | Lodging | Cooling Unitary | New | building | 59,915 | 7.1% | 0.07 | 6 | \$17,476 | 82% | 0.1 |
| PPL | Adding window shade film | No shade film | Lodging | Cooling Unitary | Existing | building | 59,915 | 1.3% | 0.4 | 10 | \$729 | 12% | 0.7 |
| PPL | Adding window shade film | No shade film | Lodging | Cooling Unitary | New | building | 59,915 | 1.3% | 0.4 | 10 | \$729 | 13% | 0.7 |
| PPL | Adding window shade screen | No shade screen | Lodging | Cooling Unitary | Existing | building | 59,915 | 1.1% | 0.01 | 10 | \$282 | 12% | 0.8 |
| PPL | Adding window shade screen | No shade screen | Lodging | Cooling Unitary | New | building | 59,915 | 1.1% | 0.01 | 10 | \$282 | 13% | 0.9 |
| PPL | Automated control system | Manual Controls | Lodging | Cooling Unitary | Existing | building | 59,915 | 17% | 0.2 | 15 | \$65,593 | 51% | 0.1 |
| PPL | Automated control system | Manual Controls | Lodging | Cooling Unitary | New | building | 59,915 | 17% | 0.2 | 15 | \$65,593 | 94% | 0.1 |
| PPL | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Lodging | Cooling Unitary | Existing | building | 59,915 | 3.4% | 0.03 | 15 | \$23,552 | 71% | 0.0 |
| PPL | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Lodging | Cooling Unitary | New | building | 59,915 | 1.1% | 0.01 | 15 | \$22,387 | 94% | 0.0 |
| PPL | Commercial energy recovery ventilation systems | No Commercial Recovery System | Lodging | Cooling Unitary | Existing | building | 61,447 | 16% | 0.2 | 14 | \$55,527 | 71% | 0.1 |
| PPL | Duct Insulation, Add R8 | No Insulation | Lodging | Cooling Unitary | Existing | building | 59,915 | 1.4% | 0.04 | 15 | \$476 | 20% | 1.0 |
| PPL | Duct Insulation, Add R8 | No Insulation | Lodging | Cooling Unitary | New | building | 59,915 | 1.4% | 0.04 | 15 | \$476 | 10% | 1.0 |
| PPL | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Lodging | Cooling Unitary | Existing | building | 32,743 | 13% | 0.1 | 1 | \$314 | 73% | 0.7 |
| PPL | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Lodging | Cooling Unitary | New | building | 32,743 | 13% | 0.1 | 1 | \$314 | 73% | 0.7 |
| PPL | ECM Motors for split systems | Std Shaded Pole Motor | Lodging | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.6 |
| PPL | ECM Motors for split systems | Std Shaded Pole Motor | Lodging | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.6 |
| PPL | Facility Commissioning | No Facility Commissioning | Lodging | Cooling Unitary | New | building | 61,447 | 16% | 0.2 | 10 | \$997 | 89% | 3.7 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Lodging | Cooling Unitary | Existing | building | 59,915 | 7.1% | 0.07 | 15 | \$265,772 | 25% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|---|---------|-----------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Lodging | Cooling Unitary | New | building | 59,915 | 7.1% | 0.07 | 15 | \$265,772 | 35% | 0.0 |
| PPL | Hi Eff HVAC System Design | No HVAC Design | Lodging | Cooling Unitary | New | building | 61,447 | 7.3% | 0.07 | 10 | \$6,876 | 51% | 0.2 |
| PPL | Hotel Occupancy Sensor | HVAC system w/out Occupancy Sensors | Lodging | Cooling Unitary | Existing | building | 59,915 | 3.5% | 0.04 | 15 | \$11,644 | 89% | 0.1 |
| PPL | Hotel Occupancy Sensor | HVAC system w/out Occupancy Sensors | Lodging | Cooling Unitary | New | building | 59,915 | 3.5% | 0.04 | 15 | \$11,644 | 94% | 0.1 |
| PPL | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Lodging | Cooling Unitary | Existing | building | 59,915 | 5.0% | 0.05 | 5 | \$225 | 59% | 2.8 |
| PPL | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Lodging | Cooling Unitary | Existing | building | 59,915 | 3.5% | 0.04 | 10 | \$2,575 | 86% | 0.3 |
| PPL | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Lodging | Cooling Unitary | New | building | 59,915 | 3.5% | 0.04 | 10 | \$2,575 | 86% | 0.3 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) | Lodging | Cooling Unitary | Existing | building | 59,915 | 2.0% | 0.02 | 11 | \$286 | 49% | 1.7 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Lodging | Cooling Unitary | New | building | 59,915 | 1.7% | 0.02 | 11 | \$146 | 49% | 2.9 |
| PPL | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Lodging | Cooling Unitary | Early | unit | 1,434 | 19% | 0.1 | 15 | \$849 | 85% | 0.3 |
| PPL | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Lodging | Cooling Unitary | New | unit | 1,448 | 20% | 0.2 | 15 | \$356 | 85% | 0.7 |
| PPL | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Lodging | Cooling Unitary | ROB | unit | 1,448 | 20% | 0.2 | 15 | \$356 | 85% | 0.7 |
| PPL | Re-Commissioning (Existing Construction) | No Re-Commissioning | Lodging | Cooling Unitary | Existing | building | 59,915 | 16% | 0.2 | 5 | \$12,530 | 86% | 0.2 |
| PPL | Room AC (w/ louvered sides) | Existing efficiency Room AC in Pennsylvania (2000 Federal Standards) | Lodging | Cooling Unitary | Early | ton | 2,000 | 13% | 0.09 | 9 | \$348 | 82% | 0.4 |
| PPL | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Lodging | Cooling Unitary | New | ton | 1,813 | 4.5% | 0.03 | 9 | \$17 | 82% | 2.3 |
| PPL | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Lodging | Cooling Unitary | ROB | ton | 1,813 | 4.5% | 0.03 | 9 | \$17 | 82% | 2.3 |
| PPL | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Lodging | Cooling Unitary | Existing | building | 59,916 | 8.2% | 0.08 | 15 | \$6,019 | 26% | 0.5 |
| PPL | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Lodging | Cooling Unitary | New | building | 59,916 | 0.2% | 0.00 | 15 | \$4,617 | 94% | 0.0 |
| PPL | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Lodging | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 1.1 |
| PPL | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Lodging | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.5 |
| PPL | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Lodging | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.5 |
| PPL | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Lodging | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 0% | 0.2 |
| PPL | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Lodging | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| PPL | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Lodging | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| PPL | LED exterior lighting | 250 Watt Incandescent | Lodging | Ext. Lighting | ROB | measure | 529 | 83% | 0.07 | 15 | \$104 | 89% | 2.9 |
| PPL | LED exterior lighting | 250 Watt Incandescent | Lodging | Ext. Lighting | ROB | measure | 529 | 83% | 0.07 | 15 | \$104 | 89% | 2.9 |
| PPL | LED exterior lighting | 250 Watt Incandescent | Lodging | Ext. Lighting | ROB | measure | 529 | 83% | 0.07 | 15 | \$104 | 89% | 2.9 |
| PPL | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Lodging | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 75% | 0.3 |
| PPL | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Lodging | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 75% | 0.2 |
| PPL | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Lodging | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.8 |
| PPL | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Lodging | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.1 |
| PPL | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Lodging | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.8 |
| PPL | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Lodging | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.1 |
| PPL | Photocell Controls (Outdoor) | Lighting w/ No Controls | Lodging | Ext. Lighting | Existing | building | 922 | 28% | 0.3 | 8 | \$4,117 | 88% | 0.1 |
| PPL | Photocell Controls (Outdoor) | Lighting w/ No Controls | Lodging | Ext. Lighting | New | building | 922 | 28% | 0.3 | 8 | \$4,117 | 0% | 0.1 |
| PPL | Adding reflective roof treatment | Std color roof | Lodging | Heat Pump | Existing | building | 5,406 | 6.9% | 0.07 | 6 | \$17,476 | 82% | 0.0 |
| PPL | Adding reflective roof treatment | Std color roof | Lodging | Heat Pump | New | building | 5,406 | 6.9% | 0.07 | 6 | \$17,476 | 82% | 0.0 |
| PPL | Adding window shade film | No shade film | Lodging | Heat Pump | Existing | building | 5,406 | 3.9% | 0.4 | 10 | \$66 | 12% | 4.2 |
| PPL | Adding window shade film | No shade film | Lodging | Heat Pump | New | building | 5,406 | 3.9% | 0.4 | 10 | \$66 | 12% | 4.2 |
| PPL | Adding window shade screen | No shade screen | Lodging | Heat Pump | Existing | building | 5,406 | 0.3% | 0.01 | 10 | \$25 | 12% | 1.0 |
| PPL | Adding window shade screen | No shade screen | Lodging | Heat Pump | New | building | 5,406 | 0.3% | 0.01 | 10 | \$25 | 12% | 1.0 |
| PPL | Automated control system | Manual Controls | Lodging | Heat Pump | Existing | building | 5,406 | 17% | 0.2 | 15 | \$5,919 | 51% | 0.1 |
| PPL | Automated control system | Manual Controls | Lodging | Heat Pump | New | building | 5,406 | 17% | 0.2 | 15 | \$5,919 | 94% | 0.1 |
| PPL | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Lodging | Heat Pump | Existing | building | 5,406 | 3.3% | 0.03 | 15 | \$23,552 | 71% | 0.0 |
| PPL | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Lodging | Heat Pump | New | building | 5,406 | 1.1% | 0.01 | 15 | \$22,387 | 94% | 0.0 |
| PPL | Commercial energy recovery ventilation systems | No Commercial Recovery System | Lodging | Heat Pump | Existing | building | 5,545 | 16% | 0.2 | 14 | \$341,543 | 71% | 0.0 |
| PPL | Duct Insulation, Add R8 | No Insulation | Lodging | Heat Pump | Existing | building | 5,406 | 4.0% | 0.04 | 15 | \$43 | 12% | 3.4 |
| PPL | Duct Insulation, Add R8 | No Insulation | Lodging | Heat Pump | New | building | 5,406 | 4.0% | 0.04 | 15 | \$43 | 6% | 3.4 |
| PPL | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Lodging | Heat Pump | Early | heat pump | 4,944 | 11% | 0.05 | 15 | \$4,070 | 83% | 0.1 |
| PPL | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Lodging | Heat Pump | New | heat pump | 4,758 | 7.9% | 0.03 | 15 | \$1,097 | 83% | 0.2 |
| PPL | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Lodging | Heat Pump | ROB | heat pump | 4,758 | 7.9% | 0.03 | 15 | \$1,097 | 83% | 0.2 |
| PPL | Facility Commissioning | No Facility Commissioning | Lodging | Heat Pump | New | building | 5,545 | 16% | 0.2 | 10 | \$2,354 | 89% | 0.2 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Lodging | Heat Pump | Existing | building | 5,406 | 7.0% | 0.07 | 15 | \$23,982 | 25% | 0.0 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Lodging | Heat Pump | New | building | 5,406 | 7.0% | 0.07 | 15 | \$23,982 | 35% | 0.0 |
| PPL | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Lodging | Heat Pump | Early | heat pump | 50,153 | 14% | 0.6 | 15 | \$91,117 | 19% | 0.0 |
| PPL | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Lodging | Heat Pump | New | heat pump | 48,708 | 12% | 0.5 | 15 | \$33,927 | 19% | 0.1 |
| PPL | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Lodging | Heat Pump | ROB | heat pump | 48,708 | 12% | 0.5 | 15 | \$33,927 | 19% | 0.1 |
| PPL | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Lodging | Heat Pump | Early | heat pump | 50,153 | 14% | 0.6 | 15 | \$58,356 | 19% | 0.1 |
| PPL | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Lodging | Heat Pump | New | heat pump | 48,708 | 12% | 0.5 | 15 | \$1,167 | 19% | 2.9 |
| PPL | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Lodging | Heat Pump | ROB | heat pump | 48,708 | 12% | 0.5 | 15 | \$1,167 | 19% | 2.9 |
| PPL | Hi Eff HVAC System Design | No HVAC Design | Lodging | Heat Pump | New | building | 5,545 | 7.3% | 0.07 | 10 | \$67,378 | 51% | 0.0 |
| PPL | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Lodging | Heat Pump | Early | heat pump | 13,183 | 16% | 0.2 | 12 | \$4,298 | 81% | 0.2 |
| PPL | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Lodging | Heat Pump | Early | heat pump | 13,183 | 26% | 0.3 | 12 | \$5,883 | 81% | 0.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|--|---------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Lodging | Heat Pump | New | heat pump | 12,688 | 12% | 0.1 | 12 | \$852 | 81% | 0.9 |
| PPL | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Lodging | Heat Pump | New | heat pump | 12,688 | 23% | 0.3 | 12 | \$2,437 | 81% | 0.6 |
| PPL | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Lodging | Heat Pump | ROB | heat pump | 12,688 | 12% | 0.1 | 12 | \$852 | 81% | 0.9 |
| PPL | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Lodging | Heat Pump | ROB | heat pump | 12,688 | 23% | 0.3 | 12 | \$2,437 | 81% | 0.6 |
| PPL | Hotel Occupancy Sensor | HVAC system w/out Occupancy Sensors | Lodging | Heat Pump | Existing | building | 5,406 | 3.5% | 0.04 | 15 | \$11,644 | 89% | 0.0 |
| PPL | Hotel Occupancy Sensor | HVAC system w/out Occupancy Sensors | Lodging | Heat Pump | New | building | 5,406 | 3.5% | 0.04 | 15 | \$11,644 | 94% | 0.0 |
| PPL | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Lodging | Heat Pump | Existing | building | 5,406 | 3.5% | 0.04 | 10 | \$2,292 | 81% | 0.0 |
| PPL | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Lodging | Heat Pump | New | building | 5,406 | 3.5% | 0.04 | 10 | \$2,292 | 81% | 0.0 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Lodging | Heat Pump | Existing | building | 5,406 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.2 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Lodging | Heat Pump | New | building | 5,406 | 2.1% | 0.02 | 11 | \$146 | 49% | 0.4 |
| PPL | Re-Commissioning (Existing Construction) | No Re-Commissioning | Lodging | Heat Pump | Existing | building | 5,406 | 16% | 0.2 | 5 | \$12,530 | 86% | 0.0 |
| PPL | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Lodging | Heat Pump | New | measure | 763,332 | 2.0% | 1.7 | 13 | \$96,095 | 43% | 0.1 |
| PPL | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Lodging | Heat Pump | ROB | measure | 763,332 | 2.0% | 1.7 | 13 | \$96,095 | 43% | 0.1 |
| PPL | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Lodging | Heat Pump | Existing | building | 5,406 | 8.0% | 0.08 | 15 | \$6,019 | 26% | 0.0 |
| PPL | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Lodging | Heat Pump | New | building | 5,406 | 0.2% | 0.00 | 15 | \$4,617 | 94% | 0.0 |
| PPL | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Lodging | Heat Pump | Early | heat pump | 21,552 | 37% | 0.7 | 15 | \$35,347 | 28% | 0.1 |
| PPL | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Lodging | Heat Pump | New | heat pump | 20,731 | 35% | 0.6 | 15 | \$15,739 | 28% | 0.3 |
| PPL | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Lodging | Heat Pump | ROB | heat pump | 20,731 | 35% | 0.6 | 15 | \$15,739 | 28% | 0.3 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Lodging | High Bay Lighting | Early | Fixture | 754 | 9.6% | 0.01 | 13 | \$875 | 39% | 0.0 |
| PPL | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Lodging | High Bay Lighting | Early | Fixture | 753 | 9.5% | 0.01 | 13 | \$875 | 28% | 0.0 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Lodging | High Bay Lighting | Early | Fixture | 1,162 | 41% | 0.07 | 13 | \$875 | 36% | 0.3 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Lodging | High Bay Lighting | New | Fixture | 573 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Lodging | High Bay Lighting | New | Fixture | 533 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Lodging | High Bay Lighting | New | Fixture | 883 | 41% | 0.05 | 13 | \$397 | 36% | 0.5 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Lodging | High Bay Lighting | ROB | Fixture | 754 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Lodging | High Bay Lighting | ROB | Fixture | 701 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Lodging | High Bay Lighting | ROB | Fixture | 1,162 | 41% | 0.07 | 13 | \$397 | 36% | 0.7 |
| PPL | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Lodging | High Bay Lighting | Early | Fixture | 1,463 | 19% | 0.04 | 13 | \$877 | 38% | 0.2 |
| PPL | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Lodging | High Bay Lighting | Early | Fixture | 1,481 | 20% | 0.04 | 13 | \$877 | 38% | 0.2 |
| PPL | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | Early | Fixture | 4,309 | 73% | 0.5 | 13 | \$877 | 38% | 2.1 |
| PPL | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Lodging | High Bay Lighting | New | Fixture | 1,112 | 19% | 0.03 | 13 | \$372 | 38% | 0.3 |
| PPL | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | New | Fixture | 3,275 | 73% | 0.4 | 13 | \$383 | 38% | 3.7 |
| PPL | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Lodging | High Bay Lighting | ROB | Fixture | 1,463 | 19% | 0.04 | 13 | \$372 | 38% | 0.4 |
| PPL | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | ROB | Fixture | 4,309 | 73% | 0.5 | 13 | \$383 | 38% | 4.9 |
| PPL | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Lodging | High Bay Lighting | Early | Fixture | 1,463 | 25% | 0.05 | 13 | \$580 | 29% | 0.4 |
| PPL | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Lodging | High Bay Lighting | Early | Fixture | 1,436 | 23% | 0.05 | 13 | \$580 | 28% | 0.3 |
| PPL | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | Early | Fixture | 4,309 | 74% | 0.5 | 13 | \$580 | 36% | 3.3 |
| PPL | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Lodging | High Bay Lighting | New | Fixture | 1,112 | 25% | 0.04 | 13 | \$75 | 29% | 2.2 |
| PPL | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | New | Fixture | 3,275 | 74% | 0.4 | 13 | \$86 | 36% | 16.9 |
| PPL | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Lodging | High Bay Lighting | ROB | Fixture | 1,463 | 25% | 0.05 | 13 | \$75 | 29% | 2.9 |
| PPL | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | ROB | Fixture | 4,309 | 74% | 0.5 | 13 | \$86 | 36% | 22.3 |
| PPL | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Lodging | High Bay Lighting | Early | Fixture | 381 | 0.2% | 0.00 | 13 | \$861 | 38% | 0.0 |
| PPL | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Lodging | High Bay Lighting | Early | Fixture | 822 | 54% | 0.07 | 13 | \$861 | 38% | 0.3 |
| PPL | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Lodging | High Bay Lighting | New | Fixture | 625 | 54% | 0.05 | 13 | \$382 | 38% | 0.5 |
| PPL | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Lodging | High Bay Lighting | ROB | Fixture | 822 | 54% | 0.07 | 13 | \$382 | 38% | 0.7 |
| PPL | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Lodging | High Bay Lighting | Early | Fixture | 1,864 | 18% | 0.05 | 13 | \$512 | 25% | 0.4 |
| PPL | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Lodging | High Bay Lighting | Early | Fixture | 1,949 | 22% | 0.06 | 13 | \$512 | 28% | 0.5 |
| PPL | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | Early | Fixture | 4,309 | 65% | 0.4 | 13 | \$512 | 36% | 3.2 |
| PPL | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Lodging | High Bay Lighting | New | Fixture | 1,417 | 18% | 0.04 | 13 | \$16 | 25% | 9.5 |
| PPL | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | New | Fixture | 3,275 | 65% | 0.3 | 13 | \$18 | 36% | 68.6 |
| PPL | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Lodging | High Bay Lighting | ROB | Fixture | 1,864 | 18% | 0.05 | 13 | \$16 | 25% | 12.5 |
| PPL | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | ROB | Fixture | 4,309 | 65% | 0.4 | 13 | \$18 | 36% | 90.2 |
| PPL | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Lodging | High Bay Lighting | Early | Fixture | 1,864 | 1.5% | 0.00 | 13 | \$582 | 19% | 0.0 |
| PPL | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Lodging | High Bay Lighting | Early | Fixture | 1,919 | 4.3% | 0.01 | 13 | \$582 | 19% | 0.1 |
| PPL | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | Early | Fixture | 4,309 | 57% | 0.4 | 13 | \$582 | 19% | 2.5 |
| PPL | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Lodging | High Bay Lighting | New | Fixture | 1,417 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| PPL | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | New | Fixture | 3,275 | 57% | 0.3 | 13 | \$88 | 19% | 12.7 |
| PPL | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Lodging | High Bay Lighting | ROB | Fixture | 1,864 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.2 |
| PPL | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | ROB | Fixture | 4,309 | 57% | 0.4 | 13 | \$88 | 19% | 16.7 |
| PPL | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Lodging | High Bay Lighting | Early | Fixture | 791 | 29% | 0.02 | 13 | \$517 | 71% | 0.3 |
| PPL | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Lodging | High Bay Lighting | Early | Fixture | 662 | 15% | 0.01 | 13 | \$517 | 95% | 0.1 |
| PPL | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Lodging | High Bay Lighting | Early | Fixture | 983 | 43% | 0.04 | 13 | \$517 | 95% | 0.5 |
| PPL | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Lodging | High Bay Lighting | Early | Fixture | 911 | 38% | 0.04 | 13 | \$517 | 95% | 0.4 |
| PPL | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Lodging | High Bay Lighting | New | Fixture | 503 | 15% | 0.01 | 13 | \$25 | 95% | 1.7 |
| PPL | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Lodging | High Bay Lighting | New | Fixture | 747 | 43% | 0.03 | 13 | \$51 | 95% | 3.5 |
| PPL | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Lodging | High Bay Lighting | ROB | Fixture | 662 | 15% | 0.01 | 13 | \$25 | 95% | 2.3 |
| PPL | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Lodging | High Bay Lighting | ROB | Fixture | 983 | 43% | 0.04 | 13 | \$51 | 95% | 4.6 |
| PPL | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Lodging | High Bay Lighting | Early | lamp | 147 | 16% | 0.00 | 7 | \$8.7 | 99% | 1.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|--|---------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Lodging | High Bay Lighting | New | lamp | 87 | 13% | 0.00 | 7 | \$1.6 | 91% | 2.5 |
| PPL | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Lodging | High Bay Lighting | ROB | lamp | 141 | 13% | 0.00 | 7 | \$1.6 | 91% | 4.0 |
| PPL | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Lodging | High Bay Lighting | Early | Fixture | 4,409 | 23% | 0.2 | 13 | \$639 | 5% | 0.9 |
| PPL | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Lodging | High Bay Lighting | Early | Fixture | 3,464 | 1.6% | 0.01 | 13 | \$639 | 28% | 0.1 |
| PPL | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | Early | Fixture | 8,618 | 60% | 0.8 | 13 | \$639 | 18% | 4.9 |
| PPL | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Lodging | High Bay Lighting | New | Fixture | 3,351 | 23% | 0.1 | 13 | \$96 | 5% | 4.7 |
| PPL | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Lodging | High Bay Lighting | ROB | Fixture | 4,409 | 23% | 0.2 | 13 | \$96 | 5% | 6.2 |
| PPL | Auto Off Time Switch | Lighting w/ No Controls | Lodging | High Bay Lighting | Existing | building | 1,182 | 24% | 0.2 | 8 | \$837 | 13% | 0.2 |
| PPL | Auto Off Time Switch | Lighting w/ No Controls | Lodging | High Bay Lighting | New | building | 1,182 | 6.9% | 0.07 | 8 | \$837 | 0% | 0.1 |
| PPL | Central Lighting Control System | Lighting w/ No Controls | Lodging | High Bay Lighting | Existing | building | 1,182 | 38% | 0.4 | 8 | \$837 | 13% | 0.4 |
| PPL | Central Lighting Control System | Lighting w/ No Controls | Lodging | High Bay Lighting | New | building | 1,182 | 14% | 0.1 | 8 | \$837 | 13% | 0.1 |
| PPL | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Lodging | High Bay Lighting | New | building | 1,182 | 10% | 0.1 | 15 | \$45,527 | 32% | 0.0 |
| PPL | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Lodging | High Bay Lighting | New | building | 1,182 | 15% | 0.2 | 15 | \$113,817 | 32% | 0.0 |
| PPL | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Lodging | High Bay Lighting | New | building | 1,182 | 30% | 0.3 | 15 | \$163,138 | 32% | 0.0 |
| PPL | Indoor Daylight Sensors | Lighting w/ No Controls | Lodging | High Bay Lighting | Existing | building | 1,182 | 28% | 0.3 | 8 | \$4,117 | 13% | 0.1 |
| PPL | Indoor Daylight Sensors | Lighting w/ No Controls | Lodging | High Bay Lighting | New | building | 1,182 | 4.1% | 0.04 | 8 | \$4,117 | 0% | 0.0 |
| PPL | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Lodging | High Bay Lighting | Early | Fixture | 4,409 | 92% | 0.6 | 13 | \$1,941 | 95% | 1.2 |
| PPL | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | Early | Fixture | 8,618 | 96% | 1.2 | 13 | \$1,941 | 95% | 2.5 |
| PPL | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Lodging | High Bay Lighting | New | Fixture | 3,351 | 92% | 0.5 | 13 | \$1,468 | 95% | 1.3 |
| PPL | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | New | Fixture | 6,550 | 96% | 0.9 | 13 | \$1,149 | 95% | 3.3 |
| PPL | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Lodging | High Bay Lighting | ROB | Fixture | 4,409 | 92% | 0.6 | 13 | \$1,468 | 95% | 1.7 |
| PPL | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Lodging | High Bay Lighting | ROB | Fixture | 8,618 | 96% | 1.2 | 13 | \$1,149 | 95% | 4.3 |
| PPL | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Lodging | High Bay Lighting | Early | Fixture | 1,463 | 67% | 0.1 | 13 | \$985 | 95% | 0.6 |
| PPL | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Lodging | High Bay Lighting | Early | Fixture | 4,309 | 89% | 0.6 | 13 | \$985 | 95% | 2.3 |
| PPL | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Lodging | High Bay Lighting | Early | Fixture | 1,183 | 59% | 0.1 | 13 | \$985 | 95% | 0.4 |
| PPL | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Lodging | High Bay Lighting | New | Fixture | 1,112 | 67% | 0.1 | 13 | \$480 | 95% | 0.9 |
| PPL | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Lodging | High Bay Lighting | New | Fixture | 3,275 | 89% | 0.4 | 13 | \$491 | 95% | 3.5 |
| PPL | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Lodging | High Bay Lighting | New | Fixture | 899 | 59% | 0.08 | 13 | \$406 | 95% | 0.8 |
| PPL | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Lodging | High Bay Lighting | ROB | Fixture | 1,463 | 67% | 0.1 | 13 | \$480 | 95% | 1.2 |
| PPL | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Lodging | High Bay Lighting | ROB | Fixture | 4,309 | 89% | 0.6 | 13 | \$491 | 95% | 4.6 |
| PPL | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Lodging | High Bay Lighting | ROB | Fixture | 1,183 | 59% | 0.1 | 13 | \$406 | 95% | 1.0 |
| PPL | Occupancy Sensor | Lighting w/ No Controls | Lodging | High Bay Lighting | Existing | building | 1,182 | 24% | 0.2 | 8 | \$1,260 | 12% | 0.2 |
| PPL | Occupancy Sensor | Lighting w/ No Controls | Lodging | High Bay Lighting | New | building | 1,182 | 6.9% | 0.07 | 8 | \$1,260 | 0% | 0.0 |
| PPL | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Lodging | High Bay Lighting | Existing | building | 1,182 | 28% | 0.3 | 8 | \$4,117 | 12% | 0.1 |
| PPL | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Lodging | High Bay Lighting | New | building | 1,182 | 4.1% | 0.04 | 8 | \$4,117 | 0% | 0.0 |
| PPL | Time Clock Control | Lighting w/ No Controls | Lodging | High Bay Lighting | Existing | building | 1,182 | 28% | 0.3 | 8 | \$837 | 13% | 0.3 |
| PPL | Time Clock Control | Lighting w/ No Controls | Lodging | High Bay Lighting | New | building | 1,182 | 4.0% | 0.04 | 8 | \$837 | 0% | 0.0 |
| PPL | Auto Off Time Switch | Lighting w/ No Controls | Lodging | Lin. Fluor. Lighting | Existing | building | 25,777 | 24% | 0.2 | 8 | \$837 | 13% | 2.5 |
| PPL | Auto Off Time Switch | Lighting w/ No Controls | Lodging | Lin. Fluor. Lighting | New | building | 25,777 | 7.0% | 0.07 | 8 | \$837 | 0% | 0.7 |
| PPL | Central Lighting Control System | Lighting w/ No Controls | Lodging | Lin. Fluor. Lighting | Existing | building | 25,777 | 38% | 0.4 | 8 | \$837 | 12% | 4.0 |
| PPL | Central Lighting Control System | Lighting w/ No Controls | Lodging | Lin. Fluor. Lighting | New | building | 25,777 | 14% | 0.1 | 8 | \$837 | 12% | 1.5 |
| PPL | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Lodging | Lin. Fluor. Lighting | New | building | 25,777 | 10% | 0.1 | 15 | \$45,527 | 32% | 0.0 |
| PPL | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Lodging | Lin. Fluor. Lighting | New | building | 25,777 | 15% | 0.2 | 15 | \$113,817 | 32% | 0.0 |
| PPL | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Lodging | Lin. Fluor. Lighting | New | building | 25,777 | 30% | 0.3 | 15 | \$163,138 | 32% | 0.0 |
| PPL | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Lodging | Lin. Fluor. Lighting | Early | Lamp | 295 | 38% | 0.02 | 7 | \$8.3 | 94% | 4.9 |
| PPL | Indoor Daylight Sensors | Lighting w/ No Controls | Lodging | Lin. Fluor. Lighting | Existing | building | 25,777 | 28% | 0.3 | 8 | \$4,117 | 13% | 0.6 |
| PPL | Indoor Daylight Sensors | Lighting w/ No Controls | Lodging | Lin. Fluor. Lighting | New | building | 25,777 | 4.1% | 0.04 | 8 | \$4,117 | 0% | 0.1 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | Early | Lamp | 88 | 19% | 0.00 | 14 | \$36 | 94% | 0.3 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 40W T12 Lamp, Magnetic Ballast | Lodging | Lin. Fluor. Lighting | Early | Lamp | 194 | 63% | 0.02 | 14 | \$36 | 94% | 2.2 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | Early | Lamp | 109 | 34% | 0.01 | 14 | \$36 | 94% | 0.7 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | Early | Lamp | 106 | 32% | 0.01 | 14 | \$36 | 94% | 0.6 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | New | Lamp | 67 | 19% | 0.00 | 14 | \$28 | 94% | 0.3 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | New | Lamp | 80 | 32% | 0.00 | 14 | \$29 | 94% | 0.6 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | New | Lamp | 83 | 34% | 0.00 | 14 | \$22 | 94% | 0.8 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | New | Lamp | 80 | 32% | 0.00 | 14 | \$29 | 94% | 0.6 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | ROB | Lamp | 88 | 19% | 0.00 | 14 | \$28 | 94% | 0.4 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | ROB | Lamp | 106 | 32% | 0.01 | 14 | \$29 | 94% | 0.8 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | ROB | Lamp | 109 | 34% | 0.01 | 14 | \$22 | 94% | 1.1 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | ROB | Lamp | 106 | 32% | 0.01 | 14 | \$29 | 94% | 0.8 |
| PPL | Occupancy Sensor | Lighting w/ No Controls | Lodging | Lin. Fluor. Lighting | Existing | building | 25,777 | 24% | 0.2 | 8 | \$1,260 | 13% | 1.7 |
| PPL | Occupancy Sensor | Lighting w/ No Controls | Lodging | Lin. Fluor. Lighting | New | building | 25,777 | 7.0% | 0.07 | 8 | \$1,260 | 0% | 0.5 |
| PPL | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Lodging | Lin. Fluor. Lighting | Existing | building | 25,777 | 28% | 0.3 | 8 | \$4,117 | 12% | 0.6 |
| PPL | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Lodging | Lin. Fluor. Lighting | New | building | 25,777 | 4.1% | 0.04 | 8 | \$4,117 | 0% | 0.1 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 40W T12 w/ Magnetic Ballast | Lodging | Lin. Fluor. Lighting | Early | Lamp | 295 | 54% | 0.03 | 7 | \$9.1 | 94% | 6.3 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | Early | Lamp | 189 | 28% | 0.01 | 7 | \$9.1 | 24% | 2.1 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | Early | Lamp | 183 | 26% | 0.01 | 7 | \$9.1 | 94% | 1.9 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Lodging | Lin. Fluor. Lighting | New | Lamp | 139 | 26% | 0.01 | 7 | \$2.5 | 94% | 5.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|--|---------|---------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Downsizing motor during retrofit | Larger hp standard motor | Lodging | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 21.5 |
| PPL | Downsizing motor during retrofit | Larger hp standard motor | Lodging | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 22.2 |
| PPL | Downsizing motor during retrofit | Larger hp standard motor | Lodging | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 23.4 |
| PPL | Downsizing motor during retrofit | Larger hp standard motor | Lodging | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 23.1 |
| PPL | Downsizing motor during retrofit | Larger hp standard motor | Lodging | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 21.2 |
| PPL | Downsizing motor during retrofit | Larger hp standard motor | Lodging | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 21.6 |
| PPL | Downsizing motor during retrofit | Larger hp standard motor | Lodging | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 22.2 |
| PPL | Downsizing motor during retrofit | Larger hp standard motor | Lodging | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 23.5 |
| PPL | Downsizing motor during retrofit | Larger hp standard motor | Lodging | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 23.1 |
| PPL | Escalator Motor Controller | Constant power control | Lodging | Motors | New | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 36% | 6.0 |
| PPL | Escalator Motor Controller | Constant power control | Lodging | Motors | ROB | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 36% | 6.0 |
| PPL | Fan Motor - correct sizing | Incorrect Fan Motor Sizing | Lodging | Motors | ROB | measure | 10,530 | 1.6% | 0.02 | 15 | \$50 | 92% | 2.3 |
| PPL | Variable Speed Drive Control, 15HP | Existing Motors w/out VFD Drive | Lodging | Motors | Early | motor | 20,692 | 72% | 2.2 | 15 | \$791 | 86% | 12.6 |
| PPL | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VFD Drive | Lodging | Motors | New | motor | 20,230 | 72% | 2.1 | 15 | \$731 | 86% | 13.3 |
| PPL | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VFD Drive | Lodging | Motors | ROB | motor | 20,230 | 72% | 2.1 | 15 | \$731 | 86% | 13.3 |
| PPL | Variable Speed Drive Control, 40HP | Existing Motors w/out VSD Drive | Lodging | Motors | Early | motor | 155,749 | 71% | 16.2 | 15 | \$4,726 | 86% | 15.7 |
| PPL | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Lodging | Motors | New | motor | 153,928 | 72% | 16.2 | 15 | \$4,666 | 86% | 15.9 |
| PPL | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Lodging | Motors | ROB | motor | 153,928 | 72% | 16.2 | 15 | \$4,666 | 86% | 15.9 |
| PPL | Variable Speed Drive Control, 5HP | Existing Motors w/out VSD Drive | Lodging | Motors | Early | motor | 59,689 | 70% | 6.2 | 15 | \$2,303 | 86% | 12.2 |
| PPL | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VSD Drive | Lodging | Motors | New | motor | 58,406 | 72% | 6.2 | 15 | \$2,243 | 86% | 12.6 |
| PPL | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VSD Drive | Lodging | Motors | ROB | motor | 58,406 | 72% | 6.2 | 15 | \$2,243 | 86% | 12.6 |
| PPL | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Lodging | Motors | Early | motor | 24,832 | 4.5% | 0.1 | 15 | \$328 | 40% | 2.2 |
| PPL | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Lodging | Motors | New | motor | 24,832 | 4.5% | 0.1 | 15 | \$268 | 40% | 2.7 |
| PPL | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Lodging | Motors | ROB | motor | 24,832 | 4.5% | 0.1 | 15 | \$268 | 40% | 2.7 |
| PPL | VFD on Chilled Water Pump | Motor w/out VFD Drive | Lodging | Motors | Early | motor | 53,752 | 54% | 2.7 | 15 | \$2,903 | 86% | 6.1 |
| PPL | VFD on Chilled Water Pump | Motor w/out VFD Drive | Lodging | Motors | New | motor | 52,746 | 55% | 2.7 | 15 | \$2,843 | 86% | 6.2 |
| PPL | VFD on Chilled Water Pump | Motor w/out VFD Drive | Lodging | Motors | ROB | motor | 52,746 | 55% | 2.7 | 15 | \$2,843 | 86% | 6.2 |
| PPL | VFD on Condenser Water Pump | Motor w/out VFD Drive | Lodging | Motors | Early | motor | 50,984 | 32% | 3.2 | 15 | \$2,903 | 86% | 3.9 |
| PPL | VFD on Condenser Water Pump | Motor w/out VFD Drive | Lodging | Motors | New | motor | 50,030 | 33% | 3.1 | 15 | \$2,843 | 86% | 3.9 |
| PPL | VFD on Condenser Water Pump | Motor w/out VFD Drive | Lodging | Motors | ROB | motor | 50,030 | 33% | 3.1 | 15 | \$2,843 | 86% | 3.9 |
| PPL | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Lodging | Motors | Early | motor | 59,491 | 56% | 0.00 | 15 | \$2,903 | 86% | 6.2 |
| PPL | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Lodging | Motors | New | motor | 58,378 | 57% | 0.00 | 15 | \$2,843 | 86% | 6.4 |
| PPL | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Lodging | Motors | ROB | motor | 58,378 | 57% | 0.00 | 15 | \$2,843 | 86% | 6.4 |
| PPL | VFD on HVAC Fan | Motor w/out VFD | Lodging | Motors | Early | motor | 53,743 | 70% | 3.4 | 15 | \$2,903 | 86% | 8.2 |
| PPL | VFD on HVAC Fan | Motor w/out VFD | Lodging | Motors | New | motor | 52,737 | 72% | 3.3 | 15 | \$2,843 | 86% | 8.4 |
| PPL | VFD on HVAC Fan | Motor w/out VFD | Lodging | Motors | ROB | motor | 52,737 | 72% | 3.3 | 15 | \$2,843 | 86% | 8.4 |
| PPL | Elevators | Std. Eff Elevator | Lodging | Other | ROB | measure | 89,016 | 18% | 1.1 | 15 | \$3,382 | 81% | 2.8 |
| PPL | Variable Speed Drives on Process Equipment | Constant speed control | Lodging | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 10.4 |
| PPL | Variable Speed Drives on Process Equipment | Constant speed control | Lodging | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 10.4 |
| PPL | Auto Off Time Switch | Lighting w/ No Controls | Lodging | Other Int. Lighting | Existing | building | 7,965 | 24% | 0.2 | 8 | \$837 | 13% | 0.9 |
| PPL | Auto Off Time Switch | Lighting w/ No Controls | Lodging | Other Int. Lighting | New | building | 7,965 | 7.0% | 0.07 | 8 | \$837 | 0% | 0.3 |
| PPL | Central Lighting Control System | Lighting w/ No Controls | Lodging | Other Int. Lighting | Existing | building | 7,965 | 38% | 0.4 | 8 | \$837 | 13% | 1.4 |
| PPL | Central Lighting Control System | Lighting w/ No Controls | Lodging | Other Int. Lighting | New | building | 7,965 | 14% | 0.1 | 8 | \$837 | 13% | 0.5 |
| PPL | Cold Cathode Screw-In Bulb | 40W Incandescent Bulb | Lodging | Other Int. Lighting | Early | lamp | 204 | 87% | 0.03 | 7 | \$33 | 14% | 1.9 |
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Lodging | Other Int. Lighting | Early | lamp | 146 | 81% | 0.02 | 7 | \$33 | 11% | 1.3 |
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Lodging | Other Int. Lighting | New | lamp | 111 | 81% | 0.01 | 7 | \$24 | 14% | 1.3 |
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Lodging | Other Int. Lighting | New | lamp | 111 | 81% | 0.01 | 7 | \$25 | 14% | 1.3 |
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Lodging | Other Int. Lighting | New | lamp | 111 | 81% | 0.01 | 7 | \$24 | 11% | 1.3 |
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Lodging | Other Int. Lighting | ROB | lamp | 146 | 81% | 0.02 | 7 | \$24 | 14% | 1.8 |
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Lodging | Other Int. Lighting | ROB | lamp | 146 | 81% | 0.02 | 7 | \$25 | 14% | 1.7 |
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Lodging | Other Int. Lighting | ROB | lamp | 146 | 81% | 0.02 | 7 | \$24 | 11% | 1.7 |
| PPL | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Lodging | Other Int. Lighting | Early | lamp | 204 | 75% | 0.02 | 3 | \$73 | 39% | 0.3 |
| PPL | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Lodging | Other Int. Lighting | New | lamp | 222 | 65% | 0.02 | 13 | \$29 | 46% | 3.0 |
| PPL | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Lodging | Other Int. Lighting | New | lamp | 111 | 65% | 0.01 | 3 | \$29 | 46% | 0.4 |
| PPL | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Lodging | Other Int. Lighting | ROB | lamp | 293 | 65% | 0.03 | 13 | \$29 | 39% | 4.0 |
| PPL | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Lodging | Other Int. Lighting | ROB | lamp | 146 | 65% | 0.01 | 3 | \$29 | 39% | 0.5 |
| PPL | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Lodging | Other Int. Lighting | Early | lamp | 204 | 75% | 0.02 | 3 | \$3.6 | 24% | 6.9 |
| PPL | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Lodging | Other Int. Lighting | New | lamp | 111 | 65% | 0.01 | 3 | \$1.8 | 24% | 6.6 |
| PPL | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Lodging | Other Int. Lighting | ROB | lamp | 146 | 65% | 0.01 | 3 | \$1.8 | 24% | 8.7 |
| PPL | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Lodging | Other Int. Lighting | ROB | lamp | 146 | 65% | 0.01 | 3 | \$1.8 | 24% | 8.7 |
| PPL | Exit Sign Retrofit: CFL replacing Incandescent | One 23W Single Sided Incandescent Exit Sign | Lodging | Other Int. Lighting | Early | exit sign | 130 | 42% | 0.01 | 15 | \$78 | 22% | 0.5 |
| PPL | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Lodging | Other Int. Lighting | New | building | 7,965 | 10% | 0.1 | 15 | \$45,527 | 32% | 0.0 |
| PPL | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Lodging | Other Int. Lighting | New | building | 7,965 | 15% | 0.2 | 15 | \$113,817 | 32% | 0.0 |
| PPL | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Lodging | Other Int. Lighting | New | building | 7,965 | 30% | 0.3 | 15 | \$163,138 | 32% | 0.0 |
| PPL | Indoor Daylight Sensors | Lighting w/ No Controls | Lodging | Other Int. Lighting | Existing | building | 7,965 | 28% | 0.3 | 8 | \$4,117 | 13% | 0.2 |
| PPL | Indoor Daylight Sensors | Lighting w/ No Controls | Lodging | Other Int. Lighting | New | building | 7,965 | 4.1% | 0.04 | 8 | \$4,117 | 0% | 0.0 |
| PPL | LED Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Lodging | Other Int. Lighting | Early | sign | 153 | 87% | 0.02 | 15 | \$78 | 16% | 1.1 |
| PPL | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Lodging | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 2.0 |
| PPL | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Lodging | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 2.0 |
| PPL | LED Task Lighting/Screw-In | 1 15W CFL bulb | Lodging | Other Int. Lighting | Early | lamp | 42 | 33% | 0.00 | 9 | \$9.6 | 24% | 0.4 |
| PPL | LED Task Lighting/Screw-In | 1 60W Incandescent Bulb | Lodging | Other Int. Lighting | Early | lamp | 167 | 83% | 0.02 | 9 | \$9.6 | 24% | 4.2 |
| PPL | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Lodging | Other Int. Lighting | New | lamp | 91 | 77% | 0.01 | 9 | \$7.9 | 24% | 2.5 |
| PPL | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Lodging | Other Int. Lighting | New | lamp | 91 | 77% | 0.01 | 9 | \$7.9 | 24% | 2.5 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|---|---------|---------------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Lodging | Other Int. Lighting | ROB | lamp | 120 | 77% | 0.01 | 9 | \$7.9 | 24% | 3.3 |
| PPL | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Lodging | Other Int. Lighting | ROB | lamp | 120 | 77% | 0.01 | 9 | \$7.9 | 24% | 3.3 |
| PPL | Occupancy Sensor | Lighting w/ No Controls | Lodging | Other Int. Lighting | Existing | building | 7,965 | 24% | 0.2 | 8 | \$1,260 | 12% | 0.6 |
| PPL | Occupancy Sensor | Lighting w/ No Controls | Lodging | Other Int. Lighting | New | building | 7,965 | 7.0% | 0.07 | 8 | \$1,260 | 0% | 0.2 |
| PPL | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Lodging | Other Int. Lighting | Existing | building | 7,965 | 28% | 0.3 | 8 | \$4,117 | 12% | 0.2 |
| PPL | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Lodging | Other Int. Lighting | New | building | 7,965 | 4.1% | 0.04 | 8 | \$4,117 | 0% | 0.0 |
| PPL | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Lodging | Other Int. Lighting | Early | exit sign | 130 | 100% | 0.02 | 15 | \$203 | 26% | 0.4 |
| PPL | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Lodging | Other Int. Lighting | New | exit sign | 75 | 100% | 0.01 | 15 | \$148 | 31% | 0.3 |
| PPL | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Lodging | Other Int. Lighting | ROB | exit sign | 75 | 100% | 0.01 | 15 | \$148 | 26% | 0.3 |
| PPL | Time Clock Control | Lighting w/ No Controls | Lodging | Other Int. Lighting | Existing | building | 7,965 | 28% | 0.3 | 8 | \$837 | 13% | 1.0 |
| PPL | Time Clock Control | Lighting w/ No Controls | Lodging | Other Int. Lighting | New | building | 7,965 | 4.1% | 0.04 | 8 | \$837 | 0% | 0.1 |
| PPL | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Lodging | Plug Load | Existing | building | 2,913 | 46% | 0.5 | 5 | \$189 | 4% | 2.2 |
| PPL | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Lodging | Plug Load | New | building | 1,422 | 46% | 0.5 | 5 | \$189 | 4% | 1.5 |
| PPL | Data Center - Server/Storage Consolidation | No Consolidation | Lodging | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PPL | Data Center - Server/Storage Consolidation | No Consolidation | Lodging | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PPL | Data Center - Server/Storage Virtualization | No Virtualization | Lodging | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PPL | Data Center - Server/Storage Virtualization | No Virtualization | Lodging | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PPL | Energy Star - Scanners | Std Scanner | Lodging | Plug Load | New | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| PPL | Energy Star - Scanners | Std Scanner | Lodging | Plug Load | ROB | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| PPL | Energy Star Battery Charging System (for small cordless products) | Std. Battery Charging System | Lodging | Plug Load | ROB | measure | 593 | 2.3% | 0.2 | 5 | \$65 | 4% | 1.0 |
| PPL | Energy Star Dishwasher | Existing Dishwasher units | Lodging | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,580 | 23% | 1.0 |
| PPL | Energy Star Dishwasher | Standard Dishwasher unit | Lodging | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 23% | 3.3 |
| PPL | Energy Star Dishwasher | Standard Dishwasher unit | Lodging | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 23% | 3.3 |
| PPL | Energy Star External Power Adapter | Std. Power Adapter | Lodging | Plug Load | New | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| PPL | Energy Star External Power Adapter | Std. Power Adapter | Lodging | Plug Load | ROB | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| PPL | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Lodging | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 17% | 0.1 |
| PPL | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Lodging | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 1.6 |
| PPL | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Lodging | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 1.6 |
| PPL | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Lodging | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 64% | 0.8 |
| PPL | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Lodging | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 64% | 1.6 |
| PPL | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Lodging | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 64% | 1.6 |
| PPL | ENERGY STAR® Copiers | 10% Less Efficient Copier | Lodging | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 18% | 0.0 |
| PPL | ENERGY STAR® Copiers | One Conventional Copier | Lodging | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| PPL | ENERGY STAR® Copiers | One Conventional Copier | Lodging | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| PPL | ENERGY STAR® desktop | Standard computer | Lodging | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 69% | 0.1 |
| PPL | ENERGY STAR® desktop | Standard computer | Lodging | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.2 |
| PPL | ENERGY STAR® desktop | Standard computer | Lodging | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.2 |
| PPL | ENERGY STAR® Fax | 10% Less Efficient Fax | Lodging | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 15% | 0.0 |
| PPL | ENERGY STAR® Fax | One Conventional Fax | Lodging | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| PPL | ENERGY STAR® Fax | One Conventional Fax | Lodging | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| PPL | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Lodging | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 70% | 0.0 |
| PPL | ENERGY STAR® Monitors | One Conventional Monitor | Lodging | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| PPL | ENERGY STAR® Monitors | One Conventional Monitor | Lodging | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| PPL | ENERGY STAR® Printers | 10% Less Efficient Printer | Lodging | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 44% | 0.0 |
| PPL | ENERGY STAR® Printers | One Conventional Printer | Lodging | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| PPL | ENERGY STAR® Printers | One Conventional Printer | Lodging | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| PPL | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Lodging | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 43% | 0.1 |
| PPL | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Lodging | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.7 |
| PPL | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Lodging | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.7 |
| PPL | ENERGY STAR® Televisions | 10% Less Efficient Television | Lodging | Plug Load | Early | Unit | 280 | 38% | 0.01 | 6 | \$672 | 40% | 0.0 |
| PPL | ENERGY STAR® Televisions | One Conventional Television | Lodging | Plug Load | New | Unit | 254 | 32% | 0.01 | 6 | \$206 | 40% | 0.1 |
| PPL | ENERGY STAR® Televisions | One Conventional Television | Lodging | Plug Load | ROB | Unit | 254 | 32% | 0.01 | 6 | \$206 | 40% | 0.1 |
| PPL | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Lodging | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 24% | 0.3 |
| PPL | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Lodging | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.6 |
| PPL | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Lodging | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.6 |
| PPL | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Lodging | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 73% | 0.2 |
| PPL | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Lodging | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 73% | 0.2 |
| PPL | Network PC Power Management | No PC Power Management | Lodging | Plug Load | Existing | computer | 425 | 33% | 0.01 | 5 | \$30 | 38% | 1.0 |
| PPL | Network PC Power Management | No PC Power Management | Lodging | Plug Load | New | computer | 425 | 33% | 0.01 | 5 | \$30 | 38% | 1.0 |
| PPL | Smart Strip Plug Outlets | Standard plug strip/outlet | Lodging | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.4 |
| PPL | Smart Strip Plug Outlets | Standard plug strip/outlet | Lodging | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.4 |
| PPL | Smart Strip Plug Outlets | Standard plug strip/outlet | Lodging | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PPL | Smart Strip Plug Outlets | Standard plug strip/outlet | Lodging | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PPL | Smart Strip Plug Outlets | Standard plug strip/outlet | Lodging | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PPL | Smart Strip Plug Outlets | Standard plug strip/outlet | Lodging | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PPL | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Lodging | Plug Load | Existing | building | 2,913 | 46% | 0.5 | 5 | \$180 | 3% | 2.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|--|---------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Lodging | Plug Load | New | building | 1,422 | 46% | 0.5 | 5 | \$180 | 3% | 1.5 |
| PPL | Air curtain technology | Strip plastic curtain | Lodging | Refrigeration | New | building | 7,273 | 6.8% | 0.07 | 8 | \$1,062 | 35% | 0.2 |
| PPL | Air curtain technology | Strip plastic curtain | Lodging | Refrigeration | New | building | 7,327 | 6.8% | 0.07 | 8 | \$1,062 | 35% | 0.2 |
| PPL | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Lodging | Refrigeration | Existing | building | 606 | 2.3% | 0.02 | 12 | \$70 | 11% | 0.3 |
| PPL | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Lodging | Refrigeration | New | building | 606 | 2.3% | 0.02 | 12 | \$70 | 11% | 0.3 |
| PPL | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Lodging | Refrigeration | Existing | building | 606 | 0.9% | 0.01 | 12 | \$70 | 11% | 0.1 |
| PPL | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Lodging | Refrigeration | New | building | 606 | 0.9% | 0.01 | 12 | \$70 | 11% | 0.1 |
| PPL | Auto Closer on Refrigerator Door | Door w/out Autocloser | Lodging | Refrigeration | Existing | building | 7,273 | 18% | 0.2 | 8 | \$803 | 40% | 0.6 |
| PPL | Auto Closer on Refrigerator Door | Door w/out Autocloser | Lodging | Refrigeration | Existing | building | 7,327 | 9.1% | 0.09 | 8 | \$714 | 40% | 0.3 |
| PPL | Auto Closer on Refrigerator Door | Door w/out Autocloser | Lodging | Refrigeration | New | building | 7,273 | 18% | 0.2 | 8 | \$803 | 40% | 0.6 |
| PPL | Auto Closer on Refrigerator Door | Door w/out Autocloser | Lodging | Refrigeration | New | building | 7,327 | 9.1% | 0.09 | 8 | \$714 | 40% | 0.3 |
| PPL | Demand Hot Gas Defrost | Base Refrigeration System | Lodging | Refrigeration | Existing | measure | 606 | 3.0% | 0.03 | 10 | \$1,314 | 0% | 0.0 |
| PPL | Demand Hot Gas Defrost | Base Refrigeration System | Lodging | Refrigeration | New | measure | 606 | 3.0% | 0.03 | 10 | \$1,314 | 0% | 0.0 |
| PPL | Door Gasket- Freezer | Door w/out Gasket | Lodging | Refrigeration | Existing | building | 7,273 | 2.5% | 0.1 | 4 | \$27 | 29% | 2.1 |
| PPL | Door Gasket- Freezer | Door w/out Gasket | Lodging | Refrigeration | New | building | 7,273 | 9.3% | 0.09 | 4 | \$82 | 29% | 1.6 |
| PPL | Door Gasket- Refrigerator | Door w/out Gasket | Lodging | Refrigeration | Existing | building | 7,327 | 2.9% | 0.03 | 4 | \$99 | 45% | 0.4 |
| PPL | Door Gasket- Refrigerator | Door w/out Gasket | Lodging | Refrigeration | New | building | 7,327 | 2.9% | 0.03 | 4 | \$99 | 45% | 0.4 |
| PPL | Economizer for Walk-in Coolers | No Economizer | Lodging | Refrigeration | Early | measure | 16,150 | 6.6% | 0.1 | 10 | \$188 | 72% | 2.5 |
| PPL | Economizer for Walk-in Coolers | No Economizer | Lodging | Refrigeration | Early | measure | 16,150 | 6.6% | 0.1 | 10 | \$188 | 72% | 2.5 |
| PPL | Economizer for Walk-in Coolers | No Economizer | Lodging | Refrigeration | Early | measure | 16,150 | 6.6% | 0.1 | 10 | \$188 | 72% | 2.5 |
| PPL | Economizer for Walk-in Coolers | No Economizer | Lodging | Refrigeration | New | measure | 16,150 | 6.6% | 0.1 | 10 | \$22 | 72% | 21.3 |
| PPL | Economizer for Walk-in Coolers | No Economizer | Lodging | Refrigeration | New | measure | 16,150 | 6.6% | 0.1 | 10 | \$22 | 72% | 21.3 |
| PPL | Economizer for Walk-in Coolers | No Economizer | Lodging | Refrigeration | New | measure | 16,150 | 6.6% | 0.1 | 10 | \$22 | 72% | 21.3 |
| PPL | Economizer for Walk-in Coolers | No Economizer | Lodging | Refrigeration | ROB | measure | 16,150 | 6.6% | 0.1 | 10 | \$22 | 72% | 21.3 |
| PPL | Economizer for Walk-in Coolers | No Economizer | Lodging | Refrigeration | ROB | measure | 16,150 | 6.6% | 0.1 | 10 | \$22 | 72% | 21.3 |
| PPL | eCube | Refrigeration unit w/out eCube | Lodging | Refrigeration | Existing | building | 7,327 | 15% | 0.2 | 15 | \$601 | 57% | 1.2 |
| PPL | eCube | Refrigeration unit w/out eCube | Lodging | Refrigeration | New | building | 7,327 | 15% | 0.2 | 15 | \$601 | 57% | 1.2 |
| PPL | Efficient compressor motor | Base Refrigeration System - Grocery | Lodging | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| PPL | Efficient compressor motor | Base Refrigeration System - Grocery | Lodging | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| PPL | Efficient compressor motor | Base Refrigeration System - Grocery | Lodging | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| PPL | Efficient compressor motor | Base Refrigeration System - Grocery | Lodging | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| PPL | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Lodging | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.6 |
| PPL | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Lodging | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| PPL | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Lodging | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| PPL | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Lodging | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.3 |
| PPL | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Lodging | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.7 |
| PPL | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Lodging | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.7 |
| PPL | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Lodging | Refrigeration | Existing | building | 7,327 | 1.1% | 0.01 | 10 | \$369 | 77% | 0.1 |
| PPL | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Lodging | Refrigeration | New | building | 7,327 | 1.1% | 0.01 | 10 | \$369 | 77% | 0.1 |
| PPL | Floating head pressure controller | System w/out FHPC | Lodging | Refrigeration | Existing | building | 7,273 | 1.6% | 0.02 | 15 | \$8,682 | 41% | 0.0 |
| PPL | Floating head pressure controller | System w/out FHPC | Lodging | Refrigeration | Existing | building | 606 | 0.7% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| PPL | Floating head pressure controller | System w/out FHPC | Lodging | Refrigeration | Existing | building | 7,327 | 0.6% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| PPL | Floating head pressure controller | System w/out FHPC | Lodging | Refrigeration | New | building | 7,273 | 1.6% | 0.02 | 15 | \$8,682 | 41% | 0.0 |
| PPL | Floating head pressure controller | System w/out FHPC | Lodging | Refrigeration | New | building | 606 | 0.7% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| PPL | Floating head pressure controller | System w/out FHPC | Lodging | Refrigeration | New | building | 7,327 | 0.6% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| PPL | High Efficiency Commercial Freezer | Std. Commercial Freezer | Lodging | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 84% | 0.3 |
| PPL | High Efficiency Commercial Freezer | Std. Commercial Freezer | Lodging | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 84% | 3.9 |
| PPL | High Efficiency Commercial Freezer | Std. Commercial Freezer | Lodging | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 84% | 3.9 |
| PPL | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Lodging | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 21% | 0.1 |
| PPL | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Lodging | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 21% | 0.9 |
| PPL | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Lodging | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 21% | 0.9 |
| PPL | High Efficiency Ice Maker | Existing Standard Efficiency Ice Maker in Pennsylvania | Lodging | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 69% | 0.2 |
| PPL | High Efficiency Ice Maker | Standard code minimum Ice Maker | Lodging | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| PPL | High Efficiency Ice Maker | Standard code minimum Ice Maker | Lodging | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 69% | 0.2 |
| PPL | High Efficiency Ice Making Head | Standard Ice Making Head | Lodging | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.7 |
| PPL | High Efficiency Ice Making Head | Standard Ice Making Head | Lodging | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.7 |
| PPL | High R-Value Glass Doors | Base Refrigeration System - Grocery | Lodging | Refrigeration | Existing | building | 606 | 0.7% | 0.01 | 10 | \$23 | 0% | 0.2 |
| PPL | High R-Value Glass Doors | Base Refrigeration System - Grocery | Lodging | Refrigeration | New | building | 606 | 0.7% | 0.01 | 10 | \$23 | 0% | 0.2 |
| PPL | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Lodging | Refrigeration | Early | Fixture | 373 | 56% | 0.02 | 8 | \$448 | 86% | 0.2 |
| PPL | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Lodging | Refrigeration | New | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 86% | 0.3 |
| PPL | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Lodging | Refrigeration | ROB | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 86% | 0.3 |
| PPL | No-heat glass doors | Standard low-temp reach-in | Lodging | Refrigeration | Existing | building | 606 | 20% | 0.2 | 10 | \$2,125 | 8% | 0.1 |
| PPL | No-heat glass doors | Standard low-temp reach-in | Lodging | Refrigeration | New | building | 606 | 20% | 0.2 | 10 | \$2,125 | 8% | 0.1 |
| PPL | Quick acting freezer doors | Std. Freezer Doors | Lodging | Refrigeration | Existing | building | 7,273 | 13% | 0.1 | 10 | \$1,250 | 56% | 0.3 |
| PPL | Quick acting freezer doors | Std. Freezer Doors | Lodging | Refrigeration | New | building | 7,273 | 13% | 0.1 | 10 | \$1,250 | 56% | 0.3 |
| PPL | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Lodging | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 29% | 0.4 |
| PPL | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Lodging | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 29% | 1.6 |
| PPL | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Lodging | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 29% | 1.6 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|--|---------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 29% | 1.6 |
| PPL | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 29% | 2.8 |
| PPL | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 29% | 2.8 |
| PPL | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 29% | 1.6 |
| PPL | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 29% | 3.8 |
| PPL | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 29% | 3.8 |
| PPL | Refrigeration Commissioning | Non-commissioned refrigeration system | Lodging | Refrigeration | Existing | building | 15,758 | 9.5% | 0.10 | 3 | \$4,029 | 85% | 0.1 |
| PPL | Refrigeration Commissioning | Non-commissioned refrigeration system | Lodging | Refrigeration | New | building | 15,758 | 9.5% | 0.10 | 3 | \$4,029 | 85% | 0.1 |
| PPL | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Lodging | Refrigeration | Existing | building | 7,273 | 24% | 0.2 | 4 | \$100 | 22% | 3.4 |
| PPL | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Lodging | Refrigeration | Existing | building | 7,327 | 4.1% | 0.04 | 4 | \$120 | 22% | 0.5 |
| PPL | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Lodging | Refrigeration | New | building | 7,273 | 24% | 0.2 | 4 | \$100 | 22% | 3.4 |
| PPL | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Lodging | Refrigeration | New | building | 7,327 | 4.1% | 0.04 | 4 | \$120 | 22% | 0.5 |
| PPL | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Lodging | Refrigeration | Existing | building | 7,273 | 4.4% | 0.04 | 11 | \$140 | 79% | 1.1 |
| PPL | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Lodging | Refrigeration | New | building | 7,273 | 4.4% | 0.04 | 11 | \$140 | 79% | 1.1 |
| PPL | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Lodging | Refrigeration | Existing | building | 7,327 | 3.3% | 0.03 | 11 | \$140 | 79% | 0.8 |
| PPL | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Lodging | Refrigeration | New | building | 7,327 | 3.3% | 0.03 | 11 | \$140 | 79% | 0.8 |
| PPL | Vendor Miser | No Vendor Miser | Lodging | Refrigeration | Existing | machine | 552 | 12% | 0.1 | 8 | \$56 | 7% | 1.4 |
| PPL | Vertical Night Covers | Display cases w/out night covers-High Temperature | Lodging | Refrigeration | Existing | building | 606 | 0.4% | 0.00 | 5 | \$52 | 9% | 0.0 |
| PPL | Vertical Night Covers | Display cases w/out night covers-High Temperature | Lodging | Refrigeration | New | building | 606 | 0.4% | 0.00 | 5 | \$52 | 9% | 0.0 |
| PPL | VSD Controlled Compressor | Compressor w/out VSD | Lodging | Refrigeration | Early | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 73% | 0.1 |
| PPL | VSD Controlled Compressor | Compressor w/out VSD | Lodging | Refrigeration | New | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 73% | 0.1 |
| PPL | VSD Controlled Compressor | Compressor w/out VSD | Lodging | Refrigeration | ROB | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 73% | 0.1 |
| PPL | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Lodging | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$269 | 23% | 0.9 |
| PPL | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Lodging | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$269 | 23% | 0.8 |
| PPL | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Lodging | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 23% | 3.0 |
| PPL | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Lodging | Refrigeration | New | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 23% | 2.9 |
| PPL | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Lodging | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 23% | 3.0 |
| PPL | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Lodging | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 23% | 2.9 |
| PPL | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 23% | 2.3 |
| PPL | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 23% | 2.2 |
| PPL | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$151 | 23% | 4.1 |
| PPL | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$151 | 23% | 3.9 |
| PPL | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$151 | 23% | 4.1 |
| PPL | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Lodging | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$151 | 23% | 3.9 |
| PPL | Adding reflective roof treatment | Std color roof | Lodging | Space Heating | Existing | building | 11,005 | 7.1% | 0.07 | 6 | \$17,476 | 82% | 0.0 |
| PPL | Adding reflective roof treatment | Std color roof | Lodging | Space Heating | New | building | 11,005 | 7.1% | 0.07 | 6 | \$17,476 | 82% | 0.0 |
| PPL | Adding window shade film | No shade film | Lodging | Space Heating | Existing | building | 11,005 | 1.3% | 0.4 | 10 | \$134 | 13% | 1.9 |
| PPL | Adding window shade film | No shade film | Lodging | Space Heating | New | building | 11,005 | 1.3% | 0.4 | 10 | \$134 | 13% | 1.9 |
| PPL | Adding window shade screen | No shade screen | Lodging | Space Heating | Existing | building | 11,005 | 1.1% | 0.01 | 10 | \$52 | 13% | 1.0 |
| PPL | Adding window shade screen | No shade screen | Lodging | Space Heating | New | building | 11,005 | 1.1% | 0.01 | 10 | \$52 | 13% | 1.0 |
| PPL | Automated control system | Manual Controls | Lodging | Space Heating | Existing | building | 11,005 | 17% | 0.2 | 15 | \$12,048 | 51% | 0.1 |
| PPL | Automated control system | Manual Controls | Lodging | Space Heating | New | building | 11,005 | 17% | 0.2 | 15 | \$12,048 | 94% | 0.1 |
| PPL | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Lodging | Space Heating | Existing | building | 11,005 | 3.3% | 0.03 | 15 | \$23,552 | 71% | 0.0 |
| PPL | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Lodging | Space Heating | New | building | 11,005 | 1.1% | 0.01 | 15 | \$22,387 | 94% | 0.0 |
| PPL | Duct Insulation, Add R8 | No Insulation | Lodging | Space Heating | Existing | building | 11,005 | 1.4% | 0.04 | 15 | \$87 | 20% | 1.3 |
| PPL | Duct Insulation, Add R8 | No Insulation | Lodging | Space Heating | New | building | 11,005 | 1.4% | 0.04 | 15 | \$87 | 10% | 1.3 |
| PPL | Efficient Unit Heating System | Existing Unit Heaters in PA | Lodging | Space Heating | Early | heater | 78,299 | 23% | 0.1 | 15 | \$3,289 | 83% | 3.0 |
| PPL | Efficient Unit Heating System | Std. Unit Heater | Lodging | Space Heating | New | heater | 69,490 | 13% | 0.07 | 15 | \$1,985 | 83% | 2.5 |
| PPL | Efficient Unit Heating System | Std. Unit Heater | Lodging | Space Heating | ROB | heater | 69,490 | 13% | 0.07 | 15 | \$1,985 | 83% | 2.5 |
| PPL | Facility Commissioning | No Facility Commissioning | Lodging | Space Heating | New | building | 11,286 | 16% | 0.2 | 10 | \$2,354 | 89% | 0.3 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Lodging | Space Heating | Existing | building | 11,005 | 7.1% | 0.07 | 15 | \$48,816 | 25% | 0.0 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Lodging | Space Heating | New | building | 11,005 | 7.1% | 0.07 | 15 | \$48,816 | 35% | 0.0 |
| PPL | Hi Eff HVAC System Design | No HVAC Design | Lodging | Space Heating | New | building | 11,286 | 7.3% | 0.07 | 10 | \$67,378 | 51% | 0.0 |
| PPL | Hotel Occupancy Sensor | HVAC system w/out Occupancy Sensors | Lodging | Space Heating | Existing | building | 11,005 | 3.5% | 0.04 | 15 | \$11,644 | 89% | 0.0 |
| PPL | Hotel Occupancy Sensor | HVAC system w/out Occupancy Sensors | Lodging | Space Heating | New | building | 11,005 | 3.5% | 0.04 | 15 | \$11,644 | 94% | 0.0 |
| PPL | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Lodging | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$77 | 32% | 1.0 |
| PPL | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Lodging | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$77 | 32% | 1.0 |
| PPL | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Lodging | Space Heating | Existing | building | 11,005 | 3.5% | 0.04 | 10 | \$7,735 | 81% | 0.0 |
| PPL | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Lodging | Space Heating | New | building | 11,005 | 3.5% | 0.04 | 10 | \$7,735 | 81% | 0.0 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Lodging | Space Heating | Existing | building | 11,005 | 3.6% | 0.04 | 11 | \$286 | 49% | 0.7 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|---|---------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Lodging | Space Heating | New | building | 11,005 | 3.1% | 0.03 | 11 | \$146 | 49% | 1.1 |
| PPL | Re-Commissioning (Existing Construction) | No Re-Commissioning | Lodging | Space Heating | Existing | building | 11,005 | 16% | 0.2 | 5 | \$12,530 | 86% | 0.0 |
| PPL | VFD on Cooling Tower Fan | Motor w/out VFD | Lodging | Space Heating | Early | motor | 53,743 | 70% | 3.4 | 15 | \$2,843 | 88% | 8.1 |
| PPL | VFD on Cooling Tower Fan | Motor w/out VFD | Lodging | Space Heating | New | motor | 52,737 | 72% | 3.3 | 15 | \$2,843 | 88% | 8.1 |
| PPL | VFD on Cooling Tower Fan | Motor w/out VFD | Lodging | Space Heating | ROB | motor | 52,737 | 72% | 3.3 | 15 | \$2,843 | 88% | 8.1 |
| PPL | Wall Insualtions (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Lodging | Space Heating | Existing | building | 11,005 | 8.0% | 0.08 | 15 | \$6,019 | 26% | 0.1 |
| PPL | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Lodging | Space Heating | New | building | 11,005 | 0.2% | 0.00 | 15 | \$4,617 | 94% | 0.0 |
| PPL | Green LED Traffic Light | Green Incandescent Traffic Light | Lodging | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 0% | 1.2 |
| PPL | Green LED Traffic Light | Green Incandescent Traffic Light | Lodging | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| PPL | Green LED Traffic Light | Green Incandescent Traffic Light | Lodging | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| PPL | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Lodging | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 0% | 3.0 |
| PPL | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Lodging | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| PPL | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Lodging | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| PPL | Induction Street Lighting | One 100W HPS Street Light Fixture | Lodging | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 0% | 0.3 |
| PPL | Induction Street Lighting | One 100W HPS Street Light Fixture | Lodging | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.7 |
| PPL | Induction Street Lighting | One 100W HPS Street Light Fixture | Lodging | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.7 |
| PPL | LED Street Lighting | One 100W HPS Street Light | Lodging | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 0% | 0.2 |
| PPL | LED Street Lighting | One 100W HPS Street Light | Lodging | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| PPL | LED Street Lighting | One 100W HPS Street Light | Lodging | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| PPL | Red LED Traffic Light | One Red Incandescent Traffic Light | Lodging | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 0% | 1.6 |
| PPL | Red LED Traffic Light | One Red Incandescent Traffic Light | Lodging | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| PPL | Red LED Traffic Light | One Red Incandescent Traffic Light | Lodging | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| PPL | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Lodging | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 0% | 0.1 |
| PPL | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Lodging | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| PPL | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Lodging | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| PPL | Demand controlled Circulating Systems | Constant circulation system | Lodging | Water Heating | Existing | building | 4,479 | 20% | 0.2 | 15 | \$813 | 59% | 0.8 |
| PPL | Demand controlled Circulating Systems | Constant circulation system | Lodging | Water Heating | New | building | 4,479 | 20% | 0.2 | 15 | \$813 | 59% | 0.8 |
| PPL | Drainwater Heat Recovery Water Heater | No heat recovery | Lodging | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.9 |
| PPL | Drainwater Heat Recovery Water Heater | No heat recovery | Lodging | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.9 |
| PPL | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Lodging | Water Heating | Existing | building | 4,479 | 5.9% | 0.06 | 12 | \$182 | 85% | 0.9 |
| PPL | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Lodging | Water Heating | New | building | 4,479 | 5.9% | 0.06 | 12 | \$52 | 85% | 3.1 |
| PPL | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Lodging | Water Heating | Early | water heater | 48,207 | 66% | 5.6 | 10 | \$3,611 | 68% | 4.3 |
| PPL | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Lodging | Water Heating | Early | water heater | 48,207 | 66% | 5.6 | 10 | \$3,611 | 68% | 4.3 |
| PPL | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Lodging | Water Heating | New | water heater | 48,207 | 66% | 5.6 | 10 | \$2,375 | 68% | 6.5 |
| PPL | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Lodging | Water Heating | New | water heater | 48,207 | 66% | 5.6 | 10 | \$2,375 | 68% | 6.5 |
| PPL | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Lodging | Water Heating | ROB | water heater | 46,868 | 65% | 5.4 | 10 | \$2,375 | 68% | 6.2 |
| PPL | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Lodging | Water Heating | ROB | water heater | 46,868 | 65% | 5.4 | 10 | \$2,375 | 68% | 6.2 |
| PPL | Heat Recovery Unit | Base Water Heating | Lodging | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.6 |
| PPL | Heat Recovery Unit | Base Water Heating | Lodging | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.6 |
| PPL | Heat Trap | No Heat Trap | Lodging | Water Heating | Existing | building | 459 | 21% | 0.2 | 11 | \$2.7 | 50% | 58.3 |
| PPL | Heat Trap | No Heat Trap | Lodging | Water Heating | New | building | 459 | 21% | 0.2 | 11 | \$0.8 | 50% | 189.4 |
| PPL | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Lodging | Water Heating | Early | water heater | 48,207 | 5.9% | 0.5 | 15 | \$1,550 | 79% | 1.3 |
| PPL | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Lodging | Water Heating | Early | water heater | 48,207 | 5.9% | 0.5 | 15 | \$1,550 | 79% | 1.3 |
| PPL | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Lodging | Water Heating | New | water heater | 46,868 | 3.2% | 0.3 | 15 | \$614 | 79% | 1.7 |
| PPL | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Lodging | Water Heating | New | water heater | 46,868 | 3.2% | 0.3 | 15 | \$614 | 79% | 1.7 |
| PPL | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Lodging | Water Heating | ROB | water heater | 46,868 | 3.2% | 0.3 | 15 | \$614 | 79% | 1.7 |
| PPL | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Lodging | Water Heating | ROB | water heater | 46,868 | 3.2% | 0.3 | 15 | \$614 | 79% | 1.7 |
| PPL | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Lodging | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$646 | 81% | 28.2 |
| PPL | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Lodging | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 20.4 |
| PPL | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Lodging | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 20.4 |
| PPL | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Lodging | Water Heating | Existing | building | 4,479 | 1.3% | 0.01 | 13 | \$8.7 | 68% | 4.3 |
| PPL | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Lodging | Water Heating | New | building | 4,479 | 1.3% | 0.01 | 13 | \$8.7 | 0% | 4.3 |
| PPL | Hot Water Circulation Pump Time-Clock | Constant circulation system | Lodging | Water Heating | Existing | building | 4,479 | 5.3% | 0.05 | 10 | \$18 | 72% | 6.7 |
| PPL | Hot Water Circulation Pump Time-Clock | Constant circulation system | Lodging | Water Heating | New | building | 4,479 | 5.3% | 0.05 | 10 | \$18 | 72% | 6.7 |
| PPL | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Lodging | Water Heating | Existing | building | 4,479 | 0.2% | 0.00 | 7 | \$22 | 78% | 0.2 |
| PPL | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Lodging | Water Heating | New | building | 4,479 | 0.2% | 0.00 | 7 | \$0.5 | 78% | 7.2 |
| PPL | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Lodging | Water Heating | Existing | building | 4,479 | 4.2% | 0.04 | 5 | \$300 | 20% | 0.2 |
| PPL | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Lodging | Water Heating | New | building | 4,479 | 2.8% | 0.03 | 5 | \$194 | 20% | 0.2 |
| PPL | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Lodging | Water Heating | Existing | building | 4,479 | 6.5% | 0.07 | 9 | \$625 | 85% | 0.2 |
| PPL | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Lodging | Water Heating | New | building | 4,479 | 6.5% | 0.07 | 9 | \$150 | 85% | 0.9 |
| PPL | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Lodging | Water Heating | Early | water heater | 48,207 | 52% | 2.0 | 15 | \$13,680 | 32% | 1.2 |
| PPL | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Lodging | Water Heating | New | water heater | 46,868 | 51% | 1.9 | 15 | \$12,444 | 32% | 1.2 |
| PPL | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Lodging | Water Heating | ROB | water heater | 46,868 | 51% | 1.9 | 15 | \$12,444 | 32% | 1.2 |
| PPL | Ultrasonic Faucet Control | Manual Faucet Control | Lodging | Water Heating | Existing | building | 4,479 | 3.0% | 0.03 | 10 | \$775 | 77% | 0.1 |
| PPL | Ultrasonic Faucet Control | Manual Faucet Control | Lodging | Water Heating | New | building | 4,479 | 3.0% | 0.03 | 10 | \$775 | 77% | 0.1 |
| PPL | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Lodging | Water Heating | Existing | building | 4,479 | 2.2% | 0.02 | 4 | \$28 | 83% | 0.8 |
| PPL | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Lodging | Water Heating | New | building | 4,479 | 2.3% | 0.02 | 4 | \$28 | 83% | 0.9 |
| PPL | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Misc. | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|--|---------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Misc. | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.1 |
| PPL | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Misc. | Cooking | Early | steamer | 51 | 46% | 0.00 | 12 | \$5,103 | 81% | 0.0 |
| PPL | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Misc. | Cooking | New | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| PPL | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Misc. | Cooking | ROB | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| PPL | Electric combination oven (Energy Star) | Standard Oven | Misc. | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.9 |
| PPL | Electric combination oven (Energy Star) | Standard Oven | Misc. | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.9 |
| PPL | Electric Convection Oven | Conventional convection oven w/ 65% efficiency | Misc. | Cooking | Early | oven | 8,641 | 37% | 0.6 | 12 | \$4,169 | 81% | 0.4 |
| PPL | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Misc. | Cooking | New | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.7 |
| PPL | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Misc. | Cooking | ROB | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.7 |
| PPL | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Misc. | Cooking | Early | fryer | 6,105 | 23% | 0.3 | 12 | \$9,291 | 86% | 0.1 |
| PPL | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Misc. | Cooking | New | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| PPL | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Misc. | Cooking | ROB | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| PPL | High Efficiency Griddle (ENERGY STAR) | Efficiency code minimum griddle (70% eff) | Misc. | Cooking | Early | griddle | 11,317 | 65% | 1.4 | 12 | \$4,992 | 86% | 0.8 |
| PPL | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Misc. | Cooking | New | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.2 |
| PPL | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Misc. | Cooking | ROB | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.2 |
| PPL | High Efficiency Induction Cooking | Standard Cooking | Misc. | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| PPL | High Efficiency Induction Cooking | Standard Cooking | Misc. | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| PPL | Adding reflective roof treatment | Std color roof | Misc. | Cooling Central | Existing | building | 2,538 | 7.0% | 0.07 | 6 | \$12,711 | 82% | 0.0 |
| PPL | Adding reflective roof treatment | Std color roof | Misc. | Cooling Central | New | building | 2,538 | 7.0% | 0.07 | 6 | \$12,711 | 82% | 0.0 |
| PPL | Adding window shade film | No shade film | Misc. | Cooling Central | Existing | building | 2,538 | 1.3% | 0.4 | 10 | \$31 | 13% | 6.8 |
| PPL | Adding window shade film | No shade film | Misc. | Cooling Central | New | building | 2,538 | 1.3% | 0.4 | 10 | \$31 | 13% | 6.8 |
| PPL | Adding window shade screen | No shade screen | Misc. | Cooling Central | Existing | building | 2,538 | 1.1% | 0.01 | 10 | \$12 | 13% | 1.3 |
| PPL | Adding window shade screen | No shade screen | Misc. | Cooling Central | New | building | 2,538 | 1.0% | 0.01 | 10 | \$12 | 13% | 1.3 |
| PPL | Automated control system | Manual Controls | Misc. | Cooling Central | Existing | building | 2,538 | 17% | 0.2 | 15 | \$2,778 | 51% | 0.1 |
| PPL | Automated control system | Manual Controls | Misc. | Cooling Central | New | building | 2,538 | 17% | 0.2 | 15 | \$2,778 | 94% | 0.1 |
| PPL | Ceiling Insulations (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Misc. | Cooling Central | Existing | building | 2,538 | 4.9% | 0.05 | 15 | \$17,130 | 71% | 0.0 |
| PPL | Ceiling Insulations (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Misc. | Cooling Central | New | building | 2,538 | 1.7% | 0.02 | 15 | \$16,283 | 94% | 0.0 |
| PPL | Chiller Tuneup/Diagnostics | No tuneup | Misc. | Cooling Central | Existing | building | 2,538 | 8.0% | 0.08 | 10 | \$6,480 | 59% | 0.0 |
| PPL | Chiller Tuneup/Diagnostics | No tuneup | Misc. | Cooling Central | New | building | 2,538 | 8.0% | 0.08 | 10 | \$6,480 | 59% | 0.0 |
| PPL | Duct Insulation, Add R8 | No Insulation | Misc. | Cooling Central | Existing | building | 2,538 | 1.4% | 0.04 | 15 | \$20 | 20% | 2.3 |
| PPL | Duct Insulation, Add R8 | No Insulation | Misc. | Cooling Central | New | building | 2,538 | 1.4% | 0.04 | 15 | \$20 | 10% | 2.3 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Misc. | Cooling Central | Existing | building | 2,538 | 7.0% | 0.07 | 15 | \$11,257 | 25% | 0.0 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Misc. | Cooling Central | New | building | 2,538 | 7.0% | 0.07 | 15 | \$11,257 | 35% | 0.0 |
| PPL | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Misc. | Cooling Central | Early | ton | 4,365 | 24% | 0.4 | 15 | \$108,550 | 88% | 0.0 |
| PPL | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Misc. | Cooling Central | New | ton | 3,568 | 6.7% | 0.08 | 15 | \$12,927 | 88% | 0.0 |
| PPL | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Misc. | Cooling Central | ROB | ton | 3,568 | 6.7% | 0.08 | 15 | \$12,927 | 88% | 0.0 |
| PPL | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Misc. | Cooling Central | Early | ton | 6,522 | 23% | 0.5 | 15 | \$140,105 | 88% | 0.0 |
| PPL | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Misc. | Cooling Central | New | ton | 5,247 | 4.9% | 0.09 | 15 | \$9,336 | 88% | 0.0 |
| PPL | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Misc. | Cooling Central | ROB | ton | 5,247 | 4.9% | 0.09 | 15 | \$9,336 | 88% | 0.0 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Misc. | Cooling Central | Early | ton | 53,390 | 26% | 4.8 | 15 | \$105,354 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Misc. | Cooling Central | New | ton | 46,518 | 15% | 2.4 | 15 | \$30,530 | 88% | 0.2 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Misc. | Cooling Central | ROB | ton | 46,518 | 15% | 2.4 | 15 | \$30,530 | 88% | 0.2 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Misc. | Cooling Central | Early | ton | 79,963 | 23% | 6.4 | 15 | \$154,107 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Misc. | Cooling Central | New | ton | 73,456 | 16% | 4.1 | 15 | \$27,646 | 88% | 0.3 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Misc. | Cooling Central | ROB | ton | 79,963 | 23% | 6.4 | 15 | \$27,646 | 88% | 0.5 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Misc. | Cooling Central | Early | ton | 132,804 | 23% | 10.4 | 15 | \$302,924 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Misc. | Cooling Central | New | ton | 120,197 | 14% | 6.0 | 15 | \$115,432 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Misc. | Cooling Central | ROB | ton | 132,804 | 23% | 10.4 | 15 | \$115,432 | 88% | 0.2 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Misc. | Cooling Central | Early | ton | 159,365 | 23% | 12.5 | 15 | \$350,154 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Misc. | Cooling Central | New | ton | 144,236 | 14% | 7.3 | 15 | \$120,406 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Misc. | Cooling Central | ROB | ton | 159,365 | 23% | 12.5 | 15 | \$120,406 | 88% | 0.2 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Misc. | Cooling Central | Early | ton | 35,325 | 29% | 3.6 | 15 | \$83,632 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Misc. | Cooling Central | New | ton | 27,429 | 8.9% | 0.9 | 15 | \$40,211 | 88% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|---|---------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Misc. | Cooling Central | ROB | ton | 35,325 | 29% | 3.6 | 15 | \$40,211 | 88% | 0.2 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Misc. | Cooling Central | Early | ton | 60,696 | 35% | 7.3 | 15 | \$132,173 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Misc. | Cooling Central | New | ton | 45,269 | 13% | 2.0 | 15 | \$39,556 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Misc. | Cooling Central | ROB | ton | 45,269 | 13% | 2.0 | 15 | \$39,556 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Misc. | Cooling Central | Early | ton | 101,337 | 39% | 13.8 | 15 | \$187,029 | 88% | 0.2 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Misc. | Cooling Central | New | ton | 72,252 | 15% | 3.7 | 15 | \$33,554 | 88% | 0.2 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Misc. | Cooling Central | ROB | ton | 101,337 | 39% | 13.8 | 15 | \$33,554 | 88% | 0.9 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Misc. | Cooling Central | Early | ton | 17,733 | 30% | 1.8 | 15 | \$32,398 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Misc. | Cooling Central | New | ton | 14,049 | 11% | 0.5 | 15 | \$7,188 | 88% | 0.2 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Misc. | Cooling Central | ROB | ton | 17,733 | 30% | 1.8 | 15 | \$7,188 | 88% | 0.6 |
| PPL | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Misc. | Cooling Central | Existing | building | 2,538 | 2.2% | 0.02 | 10 | \$41,718 | 81% | 0.0 |
| PPL | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Misc. | Cooling Central | New | building | 2,538 | 2.2% | 0.02 | 10 | \$41,718 | 81% | 0.0 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Misc. | Cooling Central | Existing | building | 2,538 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.1 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Misc. | Cooling Central | New | building | 2,538 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.2 |
| PPL | Re-Commissioning (Existing Construction) | No Re-Commissioning | Misc. | Cooling Central | Existing | building | 2,538 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |
| PPL | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Misc. | Cooling Central | Existing | building | 2,538 | 14% | 0.1 | 15 | \$5,133 | 26% | 0.1 |
| PPL | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Misc. | Cooling Central | New | building | 2,538 | 0.4% | 0.00 | 15 | \$3,937 | 94% | 0.0 |
| PPL | <65k BTU/hr 14 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Misc. | Cooling Unitary | Early | ton | 2,499 | 16% | 0.2 | 15 | \$1,545 | 29% | 0.2 |
| PPL | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Misc. | Cooling Unitary | New | ton | 2,264 | 7.1% | 0.08 | 15 | \$339 | 29% | 0.4 |
| PPL | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Misc. | Cooling Unitary | ROB | ton | 2,264 | 7.1% | 0.08 | 15 | \$339 | 29% | 0.4 |
| PPL | <65k BTU/hr 15 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Misc. | Cooling Unitary | Early | ton | 2,499 | 22% | 0.2 | 15 | \$1,821 | 30% | 0.2 |
| PPL | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Misc. | Cooling Unitary | New | ton | 2,264 | 13% | 0.3 | 15 | \$714 | 30% | 0.5 |
| PPL | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Misc. | Cooling Unitary | ROB | ton | 2,264 | 13% | 0.3 | 15 | \$714 | 30% | 0.5 |
| PPL | <65k BTU/hr 16 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Misc. | Cooling Unitary | Early | ton | 2,499 | 26% | 0.3 | 15 | \$2,098 | 31% | 0.3 |
| PPL | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Misc. | Cooling Unitary | New | ton | 2,264 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.4 |
| PPL | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Misc. | Cooling Unitary | ROB | ton | 2,264 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.4 |
| PPL | >760k min 10.2 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Misc. | Cooling Unitary | Early | ton | 63,236 | 3.7% | 1.2 | 15 | \$68,066 | 56% | 0.0 |
| PPL | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Misc. | Cooling Unitary | New | ton | 64,047 | 4.9% | 1.6 | 15 | \$6,231 | 56% | 0.5 |
| PPL | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Misc. | Cooling Unitary | ROB | ton | 64,047 | 4.9% | 1.6 | 15 | \$6,231 | 56% | 0.5 |
| PPL | 135-240k min 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Misc. | Cooling Unitary | Early | ton | 15,148 | 18% | 1.4 | 15 | \$18,135 | 79% | 0.1 |
| PPL | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Misc. | Cooling Unitary | New | ton | 13,779 | 10.0% | 0.7 | 15 | \$1,948 | 65% | 0.6 |
| PPL | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Misc. | Cooling Unitary | ROB | ton | 13,779 | 10.0% | 0.7 | 15 | \$1,948 | 79% | 0.6 |
| PPL | 240k-760k min 11 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Misc. | Cooling Unitary | Early | ton | 41,706 | 9.3% | 1.9 | 15 | \$44,809 | 66% | 0.1 |
| PPL | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Misc. | Cooling Unitary | New | ton | 41,706 | 9.3% | 2.0 | 15 | \$4,813 | 66% | 0.7 |
| PPL | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Misc. | Cooling Unitary | ROB | ton | 41,706 | 9.3% | 2.0 | 15 | \$4,813 | 66% | 0.7 |
| PPL | 65k-135k BTU/hr 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Misc. | Cooling Unitary | Early | ton | 9,172 | 17% | 0.8 | 15 | \$10,946 | 86% | 0.1 |
| PPL | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Misc. | Cooling Unitary | New | ton | 8,174 | 6.7% | 0.3 | 15 | \$1,392 | 86% | 0.4 |
| PPL | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Misc. | Cooling Unitary | ROB | ton | 8,174 | 6.7% | 0.3 | 15 | \$1,392 | 86% | 0.4 |
| PPL | Adding reflective roof treatment | Std color roof | Misc. | Cooling Unitary | Existing | building | 30,272 | 7.0% | 0.07 | 6 | \$12,711 | 82% | 0.0 |
| PPL | Adding reflective roof treatment | Std color roof | Misc. | Cooling Unitary | New | building | 30,272 | 7.0% | 0.07 | 6 | \$12,711 | 82% | 0.0 |
| PPL | Adding window shade film | No shade film | Misc. | Cooling Unitary | Existing | building | 30,272 | 1.3% | 0.4 | 10 | \$368 | 12% | 0.9 |
| PPL | Adding window shade film | No shade film | Misc. | Cooling Unitary | New | building | 30,272 | 1.3% | 0.4 | 10 | \$368 | 13% | 0.9 |
| PPL | Adding window shade screen | No shade screen | Misc. | Cooling Unitary | Existing | building | 30,272 | 1.1% | 0.01 | 10 | \$142 | 12% | 0.9 |
| PPL | Adding window shade screen | No shade screen | Misc. | Cooling Unitary | New | building | 30,272 | 1.1% | 0.01 | 10 | \$142 | 13% | 0.9 |
| PPL | Automated control system | Manual Controls | Misc. | Cooling Unitary | Existing | building | 30,272 | 17% | 0.2 | 15 | \$33,141 | 51% | 0.1 |
| PPL | Automated control system | Manual Controls | Misc. | Cooling Unitary | New | building | 30,272 | 17% | 0.2 | 15 | \$33,141 | 94% | 0.1 |
| PPL | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Misc. | Cooling Unitary | Existing | building | 30,272 | 4.9% | 0.05 | 15 | \$17,130 | 71% | 0.0 |
| PPL | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Misc. | Cooling Unitary | New | building | 30,272 | 1.7% | 0.02 | 15 | \$16,283 | 94% | 0.0 |
| PPL | Duct Insulation, Add R8 | No Insulation | Misc. | Cooling Unitary | Existing | building | 30,272 | 1.4% | 0.04 | 15 | \$240 | 20% | 1.1 |
| PPL | Duct Insulation, Add R8 | No Insulation | Misc. | Cooling Unitary | New | building | 30,272 | 1.4% | 0.04 | 15 | \$240 | 10% | 1.1 |
| PPL | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Misc. | Cooling Unitary | Existing | building | 16,543 | 13% | 0.1 | 1 | \$159 | 73% | 0.7 |
| PPL | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Misc. | Cooling Unitary | New | building | 16,543 | 13% | 0.1 | 1 | \$159 | 73% | 0.7 |
| PPL | ECM Motors for split systems | Std Shaded Pole Motor | Misc. | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.6 |
| PPL | ECM Motors for split systems | Std Shaded Pole Motor | Misc. | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.6 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|---|---------|-----------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Misc. | Cooling Unitary | Existing | building | 30,272 | 7.1% | 0.07 | 15 | \$134,279 | 25% | 0.0 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Misc. | Cooling Unitary | New | building | 30,272 | 7.1% | 0.07 | 15 | \$134,279 | 35% | 0.0 |
| PPL | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Misc. | Cooling Unitary | Existing | building | 30,272 | 5.0% | 0.05 | 5 | \$225 | 59% | 1.5 |
| PPL | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Misc. | Cooling Unitary | Existing | building | 30,272 | 2.2% | 0.02 | 10 | \$44,835 | 86% | 0.0 |
| PPL | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Misc. | Cooling Unitary | New | building | 30,272 | 2.2% | 0.02 | 10 | \$44,835 | 86% | 0.0 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) | Misc. | Cooling Unitary | Existing | building | 30,272 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.9 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Misc. | Cooling Unitary | New | building | 30,272 | 1.7% | 0.02 | 11 | \$146 | 49% | 1.5 |
| PPL | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Misc. | Cooling Unitary | Early | unit | 180 | 19% | 0.08 | 15 | \$849 | 85% | 0.1 |
| PPL | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Misc. | Cooling Unitary | New | unit | 182 | 20% | 0.09 | 15 | \$356 | 85% | 0.2 |
| PPL | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Misc. | Cooling Unitary | ROB | unit | 182 | 20% | 0.09 | 15 | \$356 | 85% | 0.2 |
| PPL | Re-Commissioning (Existing Construction) | No Re-Commissioning | Misc. | Cooling Unitary | Existing | building | 30,272 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.1 |
| PPL | Room AC (w/ louvered sides) | Existing efficiency Room AC in Pennsylvania (2000 Federal Standards) | Misc. | Cooling Unitary | Early | ton | 1,180 | 13% | 0.05 | 9 | \$348 | 82% | 0.2 |
| PPL | Room AC (w/ louvered sides) | Std Room AC (Code Min. Federal Standards) | Misc. | Cooling Unitary | New | ton | 1,070 | 4.5% | 0.02 | 9 | \$17 | 82% | 1.4 |
| PPL | Room AC (w/ louvered sides) | Std Room AC (Code Min. Federal Standards) | Misc. | Cooling Unitary | ROB | ton | 1,070 | 4.5% | 0.02 | 9 | \$17 | 82% | 1.4 |
| PPL | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Misc. | Cooling Unitary | Existing | building | 30,272 | 14% | 0.1 | 15 | \$5,133 | 26% | 0.5 |
| PPL | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Misc. | Cooling Unitary | New | building | 30,272 | 0.4% | 0.00 | 15 | \$3,937 | 94% | 0.0 |
| PPL | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Misc. | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 1.1 |
| PPL | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Misc. | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.5 |
| PPL | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Misc. | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.5 |
| PPL | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Misc. | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 0% | 0.2 |
| PPL | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Misc. | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| PPL | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Misc. | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| PPL | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Misc. | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 53% | 0.3 |
| PPL | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Misc. | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 53% | 0.2 |
| PPL | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Misc. | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 53% | 2.8 |
| PPL | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Misc. | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 53% | 2.1 |
| PPL | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Misc. | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 53% | 2.8 |
| PPL | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Misc. | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 53% | 2.1 |
| PPL | Photocell Controls (Outdoor) | Lighting w/ No Controls | Misc. | Ext. Lighting | Existing | building | 876 | 28% | 0.3 | 8 | \$4,908 | 88% | 0.0 |
| PPL | Photocell Controls (Outdoor) | Lighting w/ No Controls | Misc. | Ext. Lighting | New | building | 876 | 28% | 0.3 | 8 | \$4,908 | 0% | 0.0 |
| PPL | Adding reflective roof treatment | Std color roof | Misc. | Heat Pump | Existing | building | 2,581 | 6.9% | 0.07 | 6 | \$12,711 | 82% | 0.0 |
| PPL | Adding reflective roof treatment | Std color roof | Misc. | Heat Pump | New | building | 2,581 | 6.9% | 0.07 | 6 | \$12,711 | 82% | 0.0 |
| PPL | Adding window shade film | No shade film | Misc. | Heat Pump | Existing | building | 2,581 | 3.9% | 0.4 | 10 | \$31 | 12% | 7.5 |
| PPL | Adding window shade film | No shade film | Misc. | Heat Pump | New | building | 2,581 | 3.9% | 0.4 | 10 | \$31 | 12% | 7.5 |
| PPL | Adding window shade screen | No shade screen | Misc. | Heat Pump | Existing | building | 2,581 | 0.3% | 0.01 | 10 | \$12 | 12% | 1.2 |
| PPL | Adding window shade screen | No shade screen | Misc. | Heat Pump | New | building | 2,581 | 0.3% | 0.01 | 10 | \$12 | 12% | 1.2 |
| PPL | Automated control system | Manual Controls | Misc. | Heat Pump | Existing | building | 2,581 | 17% | 0.2 | 15 | \$2,825 | 51% | 0.1 |
| PPL | Automated control system | Manual Controls | Misc. | Heat Pump | New | building | 2,581 | 17% | 0.2 | 15 | \$2,825 | 94% | 0.1 |
| PPL | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Misc. | Heat Pump | Existing | building | 2,581 | 4.9% | 0.05 | 15 | \$17,130 | 71% | 0.0 |
| PPL | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Misc. | Heat Pump | New | building | 2,581 | 1.7% | 0.02 | 15 | \$16,283 | 94% | 0.0 |
| PPL | Duct Insulation, Add R8 | No Insulation | Misc. | Heat Pump | Existing | building | 2,581 | 4.0% | 0.04 | 15 | \$21 | 12% | 4.1 |
| PPL | Duct Insulation, Add R8 | No Insulation | Misc. | Heat Pump | New | building | 2,581 | 4.0% | 0.04 | 15 | \$21 | 6% | 4.1 |
| PPL | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Misc. | Heat Pump | Early | heat pump | 2,293 | 12% | 0.02 | 15 | \$4,070 | 83% | 0.0 |
| PPL | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Misc. | Heat Pump | New | heat pump | 2,195 | 7.8% | 0.01 | 15 | \$1,097 | 83% | 0.1 |
| PPL | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Misc. | Heat Pump | ROB | heat pump | 2,195 | 7.8% | 0.01 | 15 | \$1,097 | 83% | 0.1 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Misc. | Heat Pump | Existing | building | 2,581 | 7.0% | 0.07 | 15 | \$11,448 | 25% | 0.0 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Misc. | Heat Pump | New | building | 2,581 | 7.0% | 0.07 | 15 | \$11,448 | 35% | 0.0 |
| PPL | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Misc. | Heat Pump | Early | heat pump | 23,700 | 16% | 0.3 | 15 | \$91,117 | 19% | 0.0 |
| PPL | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Misc. | Heat Pump | New | heat pump | 22,847 | 13% | 0.3 | 15 | \$33,927 | 19% | 0.1 |
| PPL | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Misc. | Heat Pump | ROB | heat pump | 22,847 | 13% | 0.3 | 15 | \$33,927 | 19% | 0.1 |
| PPL | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Misc. | Heat Pump | Early | heat pump | 23,700 | 16% | 0.3 | 15 | \$58,356 | 19% | 0.0 |
| PPL | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Misc. | Heat Pump | New | heat pump | 22,847 | 13% | 0.3 | 15 | \$1,167 | 19% | 1.5 |
| PPL | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Misc. | Heat Pump | ROB | heat pump | 22,847 | 13% | 0.3 | 15 | \$1,167 | 19% | 1.5 |
| PPL | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Misc. | Heat Pump | Early | heat pump | 6,136 | 16% | 0.09 | 12 | \$4,298 | 81% | 0.1 |
| PPL | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Misc. | Heat Pump | Early | heat pump | 6,136 | 25% | 0.1 | 12 | \$5,883 | 81% | 0.1 |
| PPL | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Misc. | Heat Pump | New | heat pump | 5,854 | 12% | 0.06 | 12 | \$852 | 81% | 0.4 |
| PPL | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Misc. | Heat Pump | New | heat pump | 5,854 | 22% | 0.1 | 12 | \$2,437 | 81% | 0.3 |
| PPL | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Misc. | Heat Pump | ROB | heat pump | 5,854 | 12% | 0.06 | 12 | \$852 | 81% | 0.4 |
| PPL | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Misc. | Heat Pump | ROB | heat pump | 5,854 | 22% | 0.1 | 12 | \$2,437 | 81% | 0.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|--|---------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Misc. | Heat Pump | Existing | building | 2,581 | 2.2% | 0.02 | 10 | \$39,918 | 81% | 0.0 |
| PPL | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Misc. | Heat Pump | New | building | 2,581 | 2.2% | 0.02 | 10 | \$39,918 | 81% | 0.0 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Misc. | Heat Pump | Existing | building | 2,581 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.1 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Misc. | Heat Pump | New | building | 2,581 | 2.1% | 0.02 | 11 | \$146 | 49% | 0.2 |
| PPL | Re-Commissioning (Existing Construction) | No Re-Commissioning | Misc. | Heat Pump | Existing | building | 2,581 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |
| PPL | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Misc. | Heat Pump | Existing | building | 2,581 | 14% | 0.1 | 15 | \$5,133 | 26% | 0.1 |
| PPL | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Misc. | Heat Pump | New | building | 2,581 | 0.4% | 0.00 | 15 | \$3,937 | 94% | 0.0 |
| PPL | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Misc. | Heat Pump | Early | heat pump | 9,853 | 35% | 0.3 | 15 | \$35,347 | 28% | 0.1 |
| PPL | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Misc. | Heat Pump | New | heat pump | 9,368 | 31% | 0.3 | 15 | \$15,739 | 28% | 0.1 |
| PPL | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Misc. | Heat Pump | ROB | heat pump | 9,368 | 31% | 0.3 | 15 | \$15,739 | 28% | 0.1 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Misc. | High Bay Lighting | Early | Fixture | 596 | 9.6% | 0.01 | 13 | \$875 | 39% | 0.0 |
| PPL | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Misc. | High Bay Lighting | Early | Fixture | 595 | 9.5% | 0.01 | 13 | \$875 | 28% | 0.0 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Misc. | High Bay Lighting | Early | Fixture | 919 | 41% | 0.09 | 13 | \$875 | 36% | 0.3 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Misc. | High Bay Lighting | New | Fixture | 453 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Misc. | High Bay Lighting | New | Fixture | 422 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Misc. | High Bay Lighting | New | Fixture | 699 | 41% | 0.07 | 13 | \$397 | 36% | 0.5 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Misc. | High Bay Lighting | ROB | Fixture | 596 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Misc. | High Bay Lighting | ROB | Fixture | 555 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Misc. | High Bay Lighting | ROB | Fixture | 919 | 41% | 0.09 | 13 | \$397 | 36% | 0.6 |
| PPL | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Misc. | High Bay Lighting | Early | Fixture | 1,157 | 19% | 0.05 | 13 | \$877 | 38% | 0.2 |
| PPL | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Misc. | High Bay Lighting | Early | Fixture | 1,171 | 20% | 0.06 | 13 | \$877 | 38% | 0.2 |
| PPL | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | Early | Fixture | 3,407 | 73% | 0.6 | 13 | \$877 | 38% | 1.9 |
| PPL | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Misc. | High Bay Lighting | New | Fixture | 879 | 19% | 0.04 | 13 | \$372 | 38% | 0.3 |
| PPL | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | New | Fixture | 2,590 | 73% | 0.5 | 13 | \$383 | 38% | 3.2 |
| PPL | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Misc. | High Bay Lighting | ROB | Fixture | 1,157 | 19% | 0.05 | 13 | \$372 | 38% | 0.4 |
| PPL | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | ROB | Fixture | 3,407 | 73% | 0.6 | 13 | \$383 | 38% | 4.2 |
| PPL | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Misc. | High Bay Lighting | Early | Fixture | 1,157 | 25% | 0.07 | 13 | \$580 | 29% | 0.3 |
| PPL | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Misc. | High Bay Lighting | Early | Fixture | 1,136 | 23% | 0.06 | 13 | \$580 | 28% | 0.3 |
| PPL | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | Early | Fixture | 3,407 | 74% | 0.6 | 13 | \$580 | 36% | 2.9 |
| PPL | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Misc. | High Bay Lighting | New | Fixture | 879 | 25% | 0.05 | 13 | \$75 | 29% | 1.9 |
| PPL | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | New | Fixture | 2,590 | 74% | 0.5 | 13 | \$86 | 36% | 14.8 |
| PPL | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Misc. | High Bay Lighting | ROB | Fixture | 1,157 | 25% | 0.07 | 13 | \$75 | 29% | 2.5 |
| PPL | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | ROB | Fixture | 3,407 | 74% | 0.6 | 13 | \$86 | 36% | 19.4 |
| PPL | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Misc. | High Bay Lighting | Early | Fixture | 302 | 0.2% | 0.00 | 13 | \$861 | 38% | 0.0 |
| PPL | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Misc. | High Bay Lighting | Early | Fixture | 650 | 54% | 0.09 | 13 | \$861 | 38% | 0.3 |
| PPL | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Misc. | High Bay Lighting | New | Fixture | 494 | 54% | 0.06 | 13 | \$382 | 38% | 0.5 |
| PPL | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Misc. | High Bay Lighting | ROB | Fixture | 650 | 54% | 0.09 | 13 | \$382 | 38% | 0.6 |
| PPL | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Misc. | High Bay Lighting | Early | Fixture | 1,474 | 18% | 0.07 | 13 | \$512 | 25% | 0.3 |
| PPL | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Misc. | High Bay Lighting | Early | Fixture | 1,541 | 22% | 0.08 | 13 | \$512 | 28% | 0.4 |
| PPL | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | Early | Fixture | 3,407 | 65% | 0.5 | 13 | \$512 | 36% | 2.8 |
| PPL | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Misc. | High Bay Lighting | New | Fixture | 1,120 | 18% | 0.05 | 13 | \$16 | 25% | 8.3 |
| PPL | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | New | Fixture | 2,590 | 65% | 0.4 | 13 | \$18 | 36% | 59.8 |
| PPL | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Misc. | High Bay Lighting | ROB | Fixture | 1,474 | 18% | 0.07 | 13 | \$16 | 25% | 10.9 |
| PPL | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | ROB | Fixture | 3,407 | 65% | 0.5 | 13 | \$18 | 36% | 78.6 |
| PPL | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Misc. | High Bay Lighting | Early | Fixture | 1,474 | 1.5% | 0.01 | 13 | \$582 | 19% | 0.0 |
| PPL | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Misc. | High Bay Lighting | Early | Fixture | 1,517 | 4.3% | 0.02 | 13 | \$582 | 19% | 0.1 |
| PPL | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | Early | Fixture | 3,407 | 57% | 0.5 | 13 | \$582 | 19% | 2.2 |
| PPL | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Misc. | High Bay Lighting | New | Fixture | 1,120 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| PPL | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | New | Fixture | 2,590 | 57% | 0.4 | 13 | \$88 | 19% | 11.1 |
| PPL | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Misc. | High Bay Lighting | ROB | Fixture | 1,474 | 1.5% | 0.01 | 13 | \$86 | 19% | 0.2 |
| PPL | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | ROB | Fixture | 3,407 | 57% | 0.5 | 13 | \$88 | 19% | 14.6 |
| PPL | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Misc. | High Bay Lighting | Early | Fixture | 626 | 29% | 0.03 | 13 | \$517 | 71% | 0.2 |
| PPL | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Misc. | High Bay Lighting | Early | Fixture | 523 | 15% | 0.01 | 13 | \$517 | 95% | 0.1 |
| PPL | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Misc. | High Bay Lighting | Early | Fixture | 777 | 43% | 0.06 | 13 | \$517 | 95% | 0.4 |
| PPL | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Misc. | High Bay Lighting | Early | Fixture | 721 | 38% | 0.05 | 13 | \$517 | 95% | 0.3 |
| PPL | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Misc. | High Bay Lighting | New | Fixture | 398 | 15% | 0.01 | 13 | \$25 | 95% | 1.5 |
| PPL | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Misc. | High Bay Lighting | New | Fixture | 591 | 43% | 0.04 | 13 | \$51 | 95% | 3.0 |
| PPL | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Misc. | High Bay Lighting | ROB | Fixture | 523 | 15% | 0.01 | 13 | \$25 | 95% | 1.9 |
| PPL | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Misc. | High Bay Lighting | ROB | Fixture | 777 | 43% | 0.06 | 13 | \$51 | 95% | 4.0 |
| PPL | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Misc. | High Bay Lighting | Early | lamp | 104 | 16% | 0.00 | 10 | \$8.7 | 99% | 1.0 |
| PPL | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Misc. | High Bay Lighting | New | lamp | 62 | 13% | 0.00 | 10 | \$1.6 | 91% | 2.4 |
| PPL | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Misc. | High Bay Lighting | ROB | lamp | 99 | 13% | 0.00 | 10 | \$1.6 | 91% | 3.8 |
| PPL | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Misc. | High Bay Lighting | Early | Fixture | 3,487 | 23% | 0.2 | 13 | \$639 | 5% | 0.8 |
| PPL | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Misc. | High Bay Lighting | Early | Fixture | 2,739 | 1.6% | 0.01 | 13 | \$639 | 28% | 0.0 |
| PPL | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | Early | Fixture | 6,815 | 60% | 1.0 | 13 | \$639 | 18% | 4.2 |
| PPL | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Misc. | High Bay Lighting | New | Fixture | 2,650 | 23% | 0.1 | 13 | \$96 | 5% | 4.1 |
| PPL | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Misc. | High Bay Lighting | ROB | Fixture | 3,487 | 23% | 0.2 | 13 | \$96 | 5% | 5.4 |
| PPL | Auto Off Time Switch | Lighting w/ No Controls | Misc. | High Bay Lighting | Existing | building | 1,618 | 24% | 0.2 | 8 | \$997 | 13% | 0.2 |
| PPL | Auto Off Time Switch | Lighting w/ No Controls | Misc. | High Bay Lighting | New | building | 1,618 | 6.9% | 0.07 | 8 | \$997 | 0% | 0.1 |
| PPL | Central Lighting Control System | Lighting w/ No Controls | Misc. | High Bay Lighting | Existing | building | 1,618 | 38% | 0.4 | 8 | \$997 | 13% | 0.4 |
| PPL | Central Lighting Control System | Lighting w/ No Controls | Misc. | High Bay Lighting | New | building | 1,618 | 14% | 0.1 | 8 | \$997 | 13% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|--|---------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Misc. | High Bay Lighting | New | building | 1,618 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.0 |
| PPL | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Misc. | High Bay Lighting | New | building | 1,618 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |
| PPL | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Misc. | High Bay Lighting | New | building | 1,618 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| PPL | Indoor Daylight Sensors | Lighting w/ No Controls | Misc. | High Bay Lighting | Existing | building | 1,618 | 28% | 0.3 | 8 | \$4,908 | 13% | 0.1 |
| PPL | Indoor Daylight Sensors | Lighting w/ No Controls | Misc. | High Bay Lighting | New | building | 1,618 | 4.0% | 0.04 | 8 | \$4,908 | 0% | 0.0 |
| PPL | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Misc. | High Bay Lighting | Early | Fixture | 3,487 | 92% | 0.8 | 13 | \$1,941 | 95% | 1.1 |
| PPL | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | Early | Fixture | 6,815 | 96% | 1.6 | 13 | \$1,941 | 95% | 2.2 |
| PPL | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Misc. | High Bay Lighting | New | Fixture | 2,650 | 92% | 0.6 | 13 | \$1,468 | 95% | 1.1 |
| PPL | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | New | Fixture | 5,179 | 96% | 1.2 | 13 | \$1,149 | 95% | 2.8 |
| PPL | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Misc. | High Bay Lighting | ROB | Fixture | 3,487 | 92% | 0.8 | 13 | \$1,468 | 95% | 1.4 |
| PPL | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Misc. | High Bay Lighting | ROB | Fixture | 6,815 | 96% | 1.6 | 13 | \$1,149 | 95% | 3.7 |
| PPL | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Misc. | High Bay Lighting | Early | Fixture | 1,157 | 67% | 0.2 | 13 | \$985 | 95% | 0.5 |
| PPL | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Misc. | High Bay Lighting | Early | Fixture | 3,407 | 89% | 0.7 | 13 | \$985 | 95% | 2.0 |
| PPL | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Misc. | High Bay Lighting | Early | Fixture | 935 | 59% | 0.1 | 13 | \$985 | 95% | 0.4 |
| PPL | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Misc. | High Bay Lighting | New | Fixture | 879 | 67% | 0.1 | 13 | \$480 | 95% | 0.8 |
| PPL | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Misc. | High Bay Lighting | New | Fixture | 2,590 | 89% | 0.6 | 13 | \$491 | 95% | 3.1 |
| PPL | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Misc. | High Bay Lighting | New | Fixture | 711 | 59% | 0.1 | 13 | \$406 | 95% | 0.7 |
| PPL | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Misc. | High Bay Lighting | ROB | Fixture | 1,157 | 67% | 0.2 | 13 | \$480 | 95% | 1.1 |
| PPL | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Misc. | High Bay Lighting | ROB | Fixture | 3,407 | 89% | 0.7 | 13 | \$491 | 95% | 4.0 |
| PPL | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Misc. | High Bay Lighting | ROB | Fixture | 935 | 59% | 0.1 | 13 | \$406 | 95% | 0.9 |
| PPL | Occupancy Sensor | Lighting w/ No Controls | Misc. | High Bay Lighting | Existing | building | 1,618 | 24% | 0.2 | 8 | \$1,503 | 12% | 0.2 |
| PPL | Occupancy Sensor | Lighting w/ No Controls | Misc. | High Bay Lighting | New | building | 1,618 | 6.9% | 0.07 | 8 | \$1,503 | 0% | 0.0 |
| PPL | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Misc. | High Bay Lighting | Existing | building | 1,618 | 28% | 0.3 | 8 | \$4,908 | 12% | 0.1 |
| PPL | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Misc. | High Bay Lighting | New | building | 1,618 | 4.0% | 0.04 | 8 | \$4,908 | 0% | 0.0 |
| PPL | Time Clock Control | Lighting w/ No Controls | Misc. | High Bay Lighting | Existing | building | 1,618 | 28% | 0.3 | 8 | \$997 | 13% | 0.3 |
| PPL | Time Clock Control | Lighting w/ No Controls | Misc. | High Bay Lighting | New | building | 1,618 | 4.0% | 0.04 | 8 | \$997 | 0% | 0.0 |
| PPL | Auto Off Time Switch | Lighting w/ No Controls | Misc. | Lin. Fluor. Lighting | Existing | building | 23,990 | 24% | 0.2 | 8 | \$997 | 13% | 2.0 |
| PPL | Auto Off Time Switch | Lighting w/ No Controls | Misc. | Lin. Fluor. Lighting | New | building | 23,990 | 7.0% | 0.07 | 8 | \$997 | 0% | 0.6 |
| PPL | Central Lighting Control System | Lighting w/ No Controls | Misc. | Lin. Fluor. Lighting | Existing | building | 23,990 | 38% | 0.4 | 8 | \$997 | 12% | 3.1 |
| PPL | Central Lighting Control System | Lighting w/ No Controls | Misc. | Lin. Fluor. Lighting | New | building | 23,990 | 14% | 0.1 | 8 | \$997 | 12% | 1.2 |
| PPL | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Misc. | Lin. Fluor. Lighting | New | building | 23,990 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.0 |
| PPL | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Misc. | Lin. Fluor. Lighting | New | building | 23,990 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |
| PPL | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Misc. | Lin. Fluor. Lighting | New | building | 23,990 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| PPL | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Misc. | Lin. Fluor. Lighting | Early | Lamp | 208 | 38% | 0.01 | 10 | \$8.3 | 94% | 4.6 |
| PPL | Indoor Daylight Sensors | Lighting w/ No Controls | Misc. | Lin. Fluor. Lighting | Existing | building | 23,990 | 28% | 0.3 | 8 | \$4,908 | 13% | 0.5 |
| PPL | Indoor Daylight Sensors | Lighting w/ No Controls | Misc. | Lin. Fluor. Lighting | New | building | 23,990 | 4.1% | 0.04 | 8 | \$4,908 | 0% | 0.1 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | Early | Lamp | 73 | 19% | 0.00 | 15 | \$36 | 94% | 0.3 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 40W T12 Lamp, Magnetic Ballast | Misc. | Lin. Fluor. Lighting | Early | Lamp | 161 | 63% | 0.03 | 15 | \$36 | 94% | 2.1 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | Early | Lamp | 90 | 34% | 0.01 | 15 | \$36 | 94% | 0.6 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | Early | Lamp | 87 | 32% | 0.01 | 15 | \$36 | 94% | 0.6 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | New | Lamp | 56 | 19% | 0.00 | 15 | \$28 | 94% | 0.3 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | New | Lamp | 66 | 32% | 0.01 | 15 | \$29 | 94% | 0.5 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | New | Lamp | 68 | 34% | 0.01 | 15 | \$22 | 94% | 0.8 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | New | Lamp | 66 | 32% | 0.01 | 15 | \$29 | 94% | 0.5 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | ROB | Lamp | 73 | 19% | 0.00 | 15 | \$28 | 94% | 0.4 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | ROB | Lamp | 87 | 32% | 0.01 | 15 | \$29 | 94% | 0.7 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | ROB | Lamp | 90 | 34% | 0.01 | 15 | \$22 | 94% | 1.1 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | ROB | Lamp | 87 | 32% | 0.01 | 15 | \$29 | 94% | 0.7 |
| PPL | Occupancy Sensor | Lighting w/ No Controls | Misc. | Lin. Fluor. Lighting | Existing | building | 23,990 | 24% | 0.2 | 8 | \$1,503 | 13% | 1.3 |
| PPL | Occupancy Sensor | Lighting w/ No Controls | Misc. | Lin. Fluor. Lighting | New | building | 23,990 | 7.0% | 0.07 | 8 | \$1,503 | 0% | 0.4 |
| PPL | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Misc. | Lin. Fluor. Lighting | Existing | building | 23,990 | 28% | 0.3 | 8 | \$4,908 | 12% | 0.5 |
| PPL | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Misc. | Lin. Fluor. Lighting | New | building | 23,990 | 4.1% | 0.04 | 8 | \$4,908 | 0% | 0.1 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 40W T12 w/ Magnetic Ballast | Misc. | Lin. Fluor. Lighting | Early | Lamp | 208 | 54% | 0.02 | 10 | \$9.1 | 94% | 6.0 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | Early | Lamp | 133 | 28% | 0.01 | 10 | \$9.1 | 24% | 2.0 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | Early | Lamp | 129 | 26% | 0.01 | 10 | \$9.1 | 94% | 1.8 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | New | Lamp | 98 | 26% | 0.00 | 10 | \$2.5 | 94% | 4.8 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | New | Lamp | 98 | 26% | 0.00 | 10 | \$2.5 | 94% | 4.8 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | New | Lamp | 101 | 28% | 0.00 | 10 | \$2.5 | 24% | 5.4 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | New | Lamp | 98 | 26% | 0.00 | 10 | \$2.5 | 94% | 4.8 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | ROB | Lamp | 129 | 26% | 0.01 | 10 | \$2.5 | 94% | 6.4 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Misc. | Lin. Fluor. Lighting | ROB | Lamp | 129 | 26% | 0.01 | 10 | \$2.5 | 94% | 6.4 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|--|---------|---------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Misc. | Motors | New | motor | 120,541 | 72% | 12.7 | 15 | \$4,666 | 86% | 12.5 |
| PPL | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Misc. | Motors | ROB | motor | 120,541 | 72% | 12.7 | 15 | \$4,666 | 86% | 12.5 |
| PPL | Variable Speed Drive Control, 5HP | Existing Motors w/out VSD Drive | Misc. | Motors | Early | motor | 46,743 | 70% | 4.8 | 15 | \$2,303 | 86% | 9.6 |
| PPL | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VSD Drive | Misc. | Motors | New | motor | 45,738 | 72% | 4.8 | 15 | \$2,243 | 86% | 9.8 |
| PPL | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VSD Drive | Misc. | Motors | ROB | motor | 45,738 | 72% | 4.8 | 15 | \$2,243 | 86% | 9.8 |
| PPL | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Misc. | Motors | Early | motor | 4,943 | 23% | 0.1 | 15 | \$328 | 13% | 2.2 |
| PPL | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Misc. | Motors | New | motor | 4,943 | 23% | 0.1 | 15 | \$268 | 13% | 2.7 |
| PPL | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Misc. | Motors | ROB | motor | 4,943 | 23% | 0.1 | 15 | \$268 | 13% | 2.7 |
| PPL | VFD on Chilled Water Pump | Motor w/out VFD Drive | Misc. | Motors | Early | motor | 16,452 | 54% | 1.2 | 15 | \$2,903 | 86% | 1.9 |
| PPL | VFD on Chilled Water Pump | Motor w/out VFD Drive | Misc. | Motors | New | motor | 16,144 | 55% | 1.2 | 15 | \$2,843 | 86% | 2.0 |
| PPL | VFD on Chilled Water Pump | Motor w/out VFD Drive | Misc. | Motors | ROB | motor | 16,144 | 55% | 1.2 | 15 | \$2,843 | 86% | 2.0 |
| PPL | VFD on Condenser Water Pump | Motor w/out VFD Drive | Misc. | Motors | Early | motor | 16,379 | 32% | 0.7 | 15 | \$2,903 | 86% | 1.2 |
| PPL | VFD on Condenser Water Pump | Motor w/out VFD Drive | Misc. | Motors | New | motor | 16,072 | 33% | 0.7 | 15 | \$2,843 | 86% | 1.2 |
| PPL | VFD on Condenser Water Pump | Motor w/out VFD Drive | Misc. | Motors | ROB | motor | 16,072 | 33% | 0.7 | 15 | \$2,843 | 86% | 1.2 |
| PPL | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Misc. | Motors | Early | motor | 29,557 | 56% | 2.1 | 15 | \$2,903 | 86% | 3.6 |
| PPL | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Misc. | Motors | New | motor | 29,004 | 57% | 2.1 | 15 | \$2,843 | 86% | 3.7 |
| PPL | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Misc. | Motors | ROB | motor | 29,004 | 57% | 2.1 | 15 | \$2,843 | 86% | 3.7 |
| PPL | VFD on HVAC Fan | Motor w/out VFD | Misc. | Motors | Early | motor | 16,452 | 70% | 1.7 | 15 | \$2,903 | 86% | 2.7 |
| PPL | VFD on HVAC Fan | Motor w/out VFD | Misc. | Motors | New | motor | 16,144 | 72% | 1.7 | 15 | \$2,843 | 86% | 2.7 |
| PPL | VFD on HVAC Fan | Motor w/out VFD | Misc. | Motors | ROB | motor | 16,144 | 72% | 1.7 | 15 | \$2,843 | 86% | 2.7 |
| PPL | Variable Speed Drives on Process Equipment | Constant speed control | Misc. | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 9% | 10.4 |
| PPL | Variable Speed Drives on Process Equipment | Constant speed control | Misc. | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 9% | 10.4 |
| PPL | Auto Off Time Switch | Lighting w/ No Controls | Misc. | Other Int. Lighting | Existing | building | 7,566 | 24% | 0.2 | 8 | \$997 | 13% | 0.7 |
| PPL | Auto Off Time Switch | Lighting w/ No Controls | Misc. | Other Int. Lighting | New | building | 7,566 | 7.0% | 0.07 | 8 | \$997 | 0% | 0.2 |
| PPL | Central Lighting Control System | Lighting w/ No Controls | Misc. | Other Int. Lighting | Existing | building | 7,566 | 38% | 0.4 | 8 | \$997 | 13% | 1.1 |
| PPL | Central Lighting Control System | Lighting w/ No Controls | Misc. | Other Int. Lighting | New | building | 7,566 | 14% | 0.1 | 8 | \$997 | 13% | 0.4 |
| PPL | Cold Cathode Screw-In Bulb | 40W Incandescent Bulb | Misc. | Other Int. Lighting | Early | lamp | 169 | 87% | 0.04 | 9 | \$33 | 14% | 2.1 |
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Misc. | Other Int. Lighting | Early | lamp | 121 | 81% | 0.02 | 9 | \$33 | 11% | 1.4 |
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Misc. | Other Int. Lighting | New | lamp | 92 | 81% | 0.02 | 9 | \$24 | 14% | 1.5 |
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Misc. | Other Int. Lighting | New | lamp | 92 | 81% | 0.02 | 9 | \$25 | 14% | 1.4 |
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Misc. | Other Int. Lighting | New | lamp | 92 | 81% | 0.02 | 9 | \$24 | 11% | 1.5 |
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Misc. | Other Int. Lighting | ROB | lamp | 121 | 81% | 0.02 | 9 | \$24 | 14% | 2.0 |
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Misc. | Other Int. Lighting | ROB | lamp | 121 | 81% | 0.02 | 9 | \$25 | 14% | 1.9 |
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Misc. | Other Int. Lighting | ROB | lamp | 121 | 81% | 0.02 | 9 | \$24 | 11% | 1.9 |
| PPL | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Misc. | Other Int. Lighting | Early | lamp | 169 | 75% | 0.03 | 4 | \$73 | 39% | 0.4 |
| PPL | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Misc. | Other Int. Lighting | New | lamp | 184 | 65% | 0.03 | 13 | \$29 | 46% | 2.7 |
| PPL | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Misc. | Other Int. Lighting | New | lamp | 92 | 65% | 0.01 | 4 | \$29 | 46% | 0.5 |
| PPL | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Misc. | Other Int. Lighting | ROB | lamp | 242 | 65% | 0.04 | 13 | \$29 | 39% | 3.6 |
| PPL | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Misc. | Other Int. Lighting | ROB | lamp | 121 | 65% | 0.02 | 4 | \$29 | 39% | 0.7 |
| PPL | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Misc. | Other Int. Lighting | Early | lamp | 169 | 75% | 0.03 | 4 | \$3.6 | 24% | 8.3 |
| PPL | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Misc. | Other Int. Lighting | New | lamp | 92 | 65% | 0.01 | 4 | \$1.8 | 24% | 8.0 |
| PPL | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Misc. | Other Int. Lighting | ROB | lamp | 121 | 65% | 0.02 | 4 | \$1.8 | 24% | 10.5 |
| PPL | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Misc. | Other Int. Lighting | ROB | lamp | 121 | 65% | 0.02 | 4 | \$1.8 | 24% | 10.5 |
| PPL | Exit Sign Retrofit: CFL replacing Incandescent | One 23W Single Sided Incandescent Exit Sign | Misc. | Other Int. Lighting | Early | exit sign | 136 | 42% | 0.01 | 15 | \$78 | 22% | 0.5 |
| PPL | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Misc. | Other Int. Lighting | New | building | 7,566 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.0 |
| PPL | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Misc. | Other Int. Lighting | New | building | 7,566 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |
| PPL | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Misc. | Other Int. Lighting | New | building | 7,566 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| PPL | Indoor Daylight Sensors | Lighting w/ No Controls | Misc. | Other Int. Lighting | Existing | building | 7,566 | 28% | 0.3 | 8 | \$4,908 | 13% | 0.2 |
| PPL | Indoor Daylight Sensors | Lighting w/ No Controls | Misc. | Other Int. Lighting | New | building | 7,566 | 4.1% | 0.04 | 8 | \$4,908 | 0% | 0.0 |
| PPL | LED Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Misc. | Other Int. Lighting | Early | sign | 88 | 78% | 0.01 | 15 | \$78 | 16% | 0.6 |
| PPL | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Misc. | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 2.0 |
| PPL | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Misc. | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 2.0 |
| PPL | LED Task Lighting/Screw-In | 1 15W CFL bulb | Misc. | Other Int. Lighting | Early | lamp | 30 | 33% | 0.00 | 12 | \$9.6 | 24% | 0.3 |
| PPL | LED Task Lighting/Screw-In | 1 60W Incandescent Bulb | Misc. | Other Int. Lighting | Early | lamp | 119 | 83% | 0.02 | 12 | \$9.6 | 24% | 3.3 |
| PPL | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Misc. | Other Int. Lighting | New | lamp | 65 | 77% | 0.01 | 12 | \$7.9 | 24% | 2.0 |
| PPL | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Misc. | Other Int. Lighting | New | lamp | 65 | 77% | 0.01 | 12 | \$7.9 | 24% | 2.0 |
| PPL | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Misc. | Other Int. Lighting | ROB | lamp | 86 | 77% | 0.01 | 12 | \$7.9 | 24% | 2.7 |
| PPL | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Misc. | Other Int. Lighting | ROB | lamp | 86 | 77% | 0.01 | 12 | \$7.9 | 24% | 2.7 |
| PPL | Occupancy Sensor | Lighting w/ No Controls | Misc. | Other Int. Lighting | Existing | building | 7,566 | 24% | 0.2 | 8 | \$1,503 | 12% | 0.5 |
| PPL | Occupancy Sensor | Lighting w/ No Controls | Misc. | Other Int. Lighting | New | building | 7,566 | 7.0% | 0.07 | 8 | \$1,503 | 0% | 0.1 |
| PPL | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Misc. | Other Int. Lighting | Existing | building | 7,566 | 28% | 0.3 | 8 | \$4,908 | 12% | 0.2 |
| PPL | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Misc. | Other Int. Lighting | New | building | 7,566 | 4.1% | 0.04 | 8 | \$4,908 | 0% | 0.0 |
| PPL | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Misc. | Other Int. Lighting | Early | exit sign | 136 | 100% | 0.02 | 15 | \$203 | 26% | 0.4 |
| PPL | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Misc. | Other Int. Lighting | New | exit sign | 78 | 100% | 0.01 | 15 | \$148 | 31% | 0.4 |
| PPL | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Misc. | Other Int. Lighting | ROB | exit sign | 78 | 100% | 0.01 | 15 | \$148 | 26% | 0.4 |
| PPL | Time Clock Control | Lighting w/ No Controls | Misc. | Other Int. Lighting | Existing | building | 7,566 | 28% | 0.3 | 8 | \$997 | 13% | 0.8 |
| PPL | Time Clock Control | Lighting w/ No Controls | Misc. | Other Int. Lighting | New | building | 7,566 | 4.1% | 0.04 | 8 | \$997 | 0% | 0.1 |
| PPL | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Misc. | Plug Load | Existing | building | 2,913 | 46% | 0.5 | 5 | \$189 | 4% | 2.2 |
| PPL | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Misc. | Plug Load | New | building | 1,422 | 46% | 0.5 | 5 | \$189 | 4% | 1.5 |
| PPL | Data Center - Server/Storage Consolidation | No Consolidation | Misc. | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|---|---------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Data Center - Server/Storage Consolidation | No Consolidation | Misc. | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PPL | Data Center - Server/Storage Virtualization | No Virtualization | Misc. | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PPL | Data Center - Server/Storage Virtualization | No Virtualization | Misc. | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PPL | Energy Star - Scanners | Std Scanner | Misc. | Plug Load | New | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| PPL | Energy Star - Scanners | Std Scanner | Misc. | Plug Load | ROB | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| PPL | Energy Star Dishwasher | Existing Dishwasher units | Misc. | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,580 | 6% | 1.0 |
| PPL | Energy Star Dishwasher | Standard Dishwasher unit | Misc. | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 6% | 3.3 |
| PPL | Energy Star Dishwasher | Standard Dishwasher unit | Misc. | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 6% | 3.3 |
| PPL | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Misc. | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 17% | 0.1 |
| PPL | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Misc. | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 1.6 |
| PPL | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Misc. | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 1.6 |
| PPL | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Misc. | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 64% | 0.8 |
| PPL | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Misc. | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 64% | 1.6 |
| PPL | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Misc. | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 64% | 1.6 |
| PPL | ENERGY STAR® Copiers | 10% Less Efficient Copier | Misc. | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 18% | 0.0 |
| PPL | ENERGY STAR® Copiers | One Conventional Copier | Misc. | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| PPL | ENERGY STAR® Copiers | One Conventional Copier | Misc. | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| PPL | ENERGY STAR® desktop | Standard computer | Misc. | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 69% | 0.1 |
| PPL | ENERGY STAR® desktop | Standard computer | Misc. | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.2 |
| PPL | ENERGY STAR® desktop | Standard computer | Misc. | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.2 |
| PPL | ENERGY STAR® Fax | 10% Less Efficient Fax | Misc. | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 15% | 0.0 |
| PPL | ENERGY STAR® Fax | One Conventional Fax | Misc. | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| PPL | ENERGY STAR® Fax | One Conventional Fax | Misc. | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| PPL | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Misc. | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 70% | 0.0 |
| PPL | ENERGY STAR® Monitors | One Conventional Monitor | Misc. | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| PPL | ENERGY STAR® Monitors | One Conventional Monitor | Misc. | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| PPL | ENERGY STAR® Printers | 10% Less Efficient Printer | Misc. | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 44% | 0.0 |
| PPL | ENERGY STAR® Printers | One Conventional Printer | Misc. | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| PPL | ENERGY STAR® Printers | One Conventional Printer | Misc. | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| PPL | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Misc. | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 43% | 0.1 |
| PPL | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Misc. | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.8 |
| PPL | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Misc. | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.8 |
| PPL | ENERGY STAR® Televisions | 10% Less Efficient Television | Misc. | Plug Load | Early | Unit | 221 | 38% | 0.02 | 6 | \$672 | 40% | 0.0 |
| PPL | ENERGY STAR® Televisions | One Conventional Television | Misc. | Plug Load | New | Unit | 201 | 32% | 0.01 | 6 | \$206 | 40% | 0.1 |
| PPL | ENERGY STAR® Televisions | One Conventional Television | Misc. | Plug Load | ROB | Unit | 201 | 32% | 0.01 | 6 | \$206 | 40% | 0.1 |
| PPL | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Misc. | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 24% | 0.3 |
| PPL | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Misc. | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.6 |
| PPL | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Misc. | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.6 |
| PPL | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Misc. | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.2 |
| PPL | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Misc. | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.2 |
| PPL | Network PC Power Management | No PC Power Management | Misc. | Plug Load | Existing | computer | 425 | 33% | 0.01 | 5 | \$30 | 38% | 1.0 |
| PPL | Network PC Power Management | No PC Power Management | Misc. | Plug Load | New | computer | 425 | 33% | 0.01 | 5 | \$30 | 38% | 1.0 |
| PPL | Smart Strip Plug Outlets | Standard plug strip/outlet | Misc. | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.4 |
| PPL | Smart Strip Plug Outlets | Standard plug strip/outlet | Misc. | Plug Load | Early | Smart Strip | 378 | 26% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PPL | Smart Strip Plug Outlets | Standard plug strip/outlet | Misc. | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PPL | Smart Strip Plug Outlets | Standard plug strip/outlet | Misc. | Plug Load | New | Smart Strip | 296 | 42% | 0.01 | 5 | \$21 | 85% | 1.3 |
| PPL | Smart Strip Plug Outlets | Standard plug strip/outlet | Misc. | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PPL | Smart Strip Plug Outlets | Standard plug strip/outlet | Misc. | Plug Load | ROB | Smart Strip | 296 | 42% | 0.01 | 5 | \$21 | 85% | 1.3 |
| PPL | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Misc. | Plug Load | Existing | building | 2,913 | 46% | 0.5 | 5 | \$180 | 3% | 2.3 |
| PPL | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Misc. | Plug Load | New | building | 1,422 | 46% | 0.5 | 5 | \$180 | 3% | 1.5 |
| PPL | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Misc. | Refrigeration | Existing | building | 864 | 3.6% | 0.04 | 12 | \$70 | 11% | 0.5 |
| PPL | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Misc. | Refrigeration | New | building | 864 | 3.6% | 0.04 | 12 | \$70 | 11% | 0.5 |
| PPL | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Misc. | Refrigeration | Existing | building | 864 | 1.4% | 0.01 | 12 | \$70 | 11% | 0.2 |
| PPL | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Misc. | Refrigeration | New | building | 864 | 1.4% | 0.01 | 12 | \$70 | 11% | 0.2 |
| PPL | Auto Closer on Refrigerator Door | Door w/out Autocloser | Misc. | Refrigeration | Existing | building | 3,456 | 23% | 0.2 | 8 | \$642 | 40% | 0.5 |
| PPL | Auto Closer on Refrigerator Door | Door w/out Autocloser | Misc. | Refrigeration | Existing | building | 5,760 | 14% | 0.1 | 8 | \$700 | 40% | 0.4 |
| PPL | Auto Closer on Refrigerator Door | Door w/out Autocloser | Misc. | Refrigeration | New | building | 3,456 | 23% | 0.2 | 8 | \$642 | 40% | 0.5 |
| PPL | Auto Closer on Refrigerator Door | Door w/out Autocloser | Misc. | Refrigeration | New | building | 5,760 | 14% | 0.1 | 8 | \$700 | 40% | 0.4 |
| PPL | Demand Hot Gas Defrost | Base Refrigeration System | Misc. | Refrigeration | Existing | measure | 864 | 3.0% | 0.03 | 10 | \$1,314 | 0% | 0.0 |
| PPL | Demand Hot Gas Defrost | Base Refrigeration System | Misc. | Refrigeration | New | measure | 864 | 3.0% | 0.03 | 10 | \$1,314 | 0% | 0.0 |
| PPL | Door Gasket- Freezer | Door w/out Gasket | Misc. | Refrigeration | Existing | building | 3,456 | 3.4% | 0.1 | 4 | \$17 | 29% | 3.1 |
| PPL | Door Gasket- Freezer | Door w/out Gasket | Misc. | Refrigeration | New | building | 3,456 | 7.0% | 0.07 | 4 | \$66 | 29% | 0.9 |
| PPL | Door Gasket- Refrigerator | Door w/out Gasket | Misc. | Refrigeration | Existing | building | 5,760 | 4.4% | 0.04 | 4 | \$97 | 45% | 0.5 |
| PPL | Door Gasket- Refrigerator | Door w/out Gasket | Misc. | Refrigeration | New | building | 5,760 | 4.4% | 0.04 | 4 | \$97 | 45% | 0.5 |
| PPL | eCube | Refrigeration unit w/out eCube | Misc. | Refrigeration | Existing | building | 5,760 | 15% | 0.2 | 15 | \$601 | 57% | 0.9 |
| PPL | eCube | Refrigeration unit w/out eCube | Misc. | Refrigeration | New | building | 5,760 | 15% | 0.2 | 15 | \$601 | 57% | 0.9 |
| PPL | Efficient compressor motor | Base Refrigeration System - Grocery | Misc. | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| PPL | Efficient compressor motor | Base Refrigeration System - Grocery | Misc. | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| PPL | Efficient compressor motor | Base Refrigeration System - Grocery | Misc. | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| PPL | Efficient compressor motor | Base Refrigeration System - Grocery | Misc. | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|--|---------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Misc. | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.6 |
| PPL | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Misc. | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| PPL | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Misc. | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| PPL | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Misc. | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.3 |
| PPL | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Misc. | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.7 |
| PPL | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Misc. | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.7 |
| PPL | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Misc. | Refrigeration | Existing | building | 5,760 | 1.7% | 0.02 | 10 | \$369 | 77% | 0.1 |
| PPL | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Misc. | Refrigeration | New | building | 5,760 | 1.7% | 0.02 | 10 | \$369 | 77% | 0.1 |
| PPL | Floating head pressure controller | System w/out FHPC | Misc. | Refrigeration | Existing | building | 3,456 | 2.5% | 0.03 | 15 | \$8,682 | 41% | 0.0 |
| PPL | Floating head pressure controller | System w/out FHPC | Misc. | Refrigeration | Existing | building | 864 | 1.1% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| PPL | Floating head pressure controller | System w/out FHPC | Misc. | Refrigeration | Existing | building | 5,760 | 1.0% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| PPL | Floating head pressure controller | System w/out FHPC | Misc. | Refrigeration | New | building | 3,456 | 2.5% | 0.03 | 15 | \$8,682 | 41% | 0.0 |
| PPL | Floating head pressure controller | System w/out FHPC | Misc. | Refrigeration | New | building | 864 | 1.1% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| PPL | Floating head pressure controller | System w/out FHPC | Misc. | Refrigeration | New | building | 5,760 | 1.0% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| PPL | High Efficiency Commercial Freezer | Std. Commercial Freezer | Misc. | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 86% | 0.3 |
| PPL | High Efficiency Commercial Freezer | Std. Commercial Freezer | Misc. | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 3.9 |
| PPL | High Efficiency Commercial Freezer | Std. Commercial Freezer | Misc. | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 3.9 |
| PPL | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Misc. | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 2% | 0.1 |
| PPL | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Misc. | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.9 |
| PPL | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Misc. | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.9 |
| PPL | High Efficiency Ice Maker | Existing Standard Efficiency Ice Maker in Pennsylvania | Misc. | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 73% | 0.2 |
| PPL | High Efficiency Ice Maker | Standard code minimum Ice Maker | Misc. | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| PPL | High Efficiency Ice Maker | Standard code minimum Ice Maker | Misc. | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| PPL | High Efficiency Ice Making Head | Standard Ice Making Head | Misc. | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.7 |
| PPL | High Efficiency Ice Making Head | Standard Ice Making Head | Misc. | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.7 |
| PPL | High R-Value Glass Doors | Base Refrigeration System - Grocery | Misc. | Refrigeration | Existing | building | 864 | 0.7% | 0.01 | 10 | \$15 | 0% | 0.4 |
| PPL | High R-Value Glass Doors | Base Refrigeration System - Grocery | Misc. | Refrigeration | New | building | 864 | 0.7% | 0.01 | 10 | \$15 | 0% | 0.4 |
| PPL | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Misc. | Refrigeration | Early | Fixture | 373 | 56% | 0.02 | 8 | \$448 | 47% | 0.2 |
| PPL | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Misc. | Refrigeration | New | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 47% | 0.3 |
| PPL | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Misc. | Refrigeration | ROB | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 47% | 0.3 |
| PPL | No-heat glass doors | Standard low-temp reach-in | Misc. | Refrigeration | Existing | building | 864 | 20% | 0.2 | 10 | \$1,359 | 8% | 0.1 |
| PPL | No-heat glass doors | Standard low-temp reach-in | Misc. | Refrigeration | New | building | 864 | 20% | 0.2 | 10 | \$1,359 | 8% | 0.1 |
| PPL | Quick acting freezer doors | Std. Freezer Doors | Misc. | Refrigeration | Existing | building | 3,456 | 13% | 0.1 | 10 | \$800 | 56% | 0.3 |
| PPL | Quick acting freezer doors | Std. Freezer Doors | Misc. | Refrigeration | New | building | 3,456 | 13% | 0.1 | 10 | \$800 | 56% | 0.3 |
| PPL | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Misc. | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 30% | 0.4 |
| PPL | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Misc. | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.6 |
| PPL | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Misc. | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.6 |
| PPL | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 30% | 1.6 |
| PPL | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 2.8 |
| PPL | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 2.8 |
| PPL | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 30% | 1.6 |
| PPL | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 3.8 |
| PPL | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 3.8 |
| PPL | Refrigeration Commissioning | Non-commissioned refrigeration system | Misc. | Refrigeration | Existing | building | 10,080 | 9.5% | 0.10 | 3 | \$3,556 | 85% | 0.0 |
| PPL | Refrigeration Commissioning | Non-commissioned refrigeration system | Misc. | Refrigeration | New | building | 10,080 | 9.5% | 0.10 | 3 | \$3,556 | 85% | 0.0 |
| PPL | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Misc. | Refrigeration | Existing | building | 3,456 | 30% | 0.3 | 4 | \$80 | 22% | 3.0 |
| PPL | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Misc. | Refrigeration | Existing | building | 5,760 | 6.2% | 0.06 | 4 | \$117 | 22% | 0.6 |
| PPL | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Misc. | Refrigeration | New | building | 3,456 | 30% | 0.3 | 4 | \$80 | 22% | 3.0 |
| PPL | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Misc. | Refrigeration | New | building | 5,760 | 6.2% | 0.06 | 4 | \$117 | 22% | 0.6 |
| PPL | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Misc. | Refrigeration | Existing | building | 3,456 | 5.8% | 0.06 | 11 | \$119 | 79% | 1.0 |
| PPL | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Misc. | Refrigeration | New | building | 3,456 | 5.8% | 0.06 | 11 | \$119 | 79% | 1.0 |
| PPL | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Misc. | Refrigeration | Existing | building | 5,760 | 4.5% | 0.05 | 11 | \$119 | 79% | 1.1 |
| PPL | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Misc. | Refrigeration | New | building | 5,760 | 4.5% | 0.05 | 11 | \$119 | 79% | 1.1 |
| PPL | Vertical Night Covers | Display cases w/out night covers-High Temperature | Misc. | Refrigeration | Existing | building | 864 | 0.6% | 0.01 | 5 | \$50 | 9% | 0.1 |
| PPL | Vertical Night Covers | Display cases w/out night covers-High Temperature | Misc. | Refrigeration | New | building | 864 | 0.6% | 0.01 | 5 | \$50 | 9% | 0.1 |
| PPL | VSD Controlled Compressor | Compressor w/out VSD | Misc. | Refrigeration | Early | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |
| PPL | VSD Controlled Compressor | Compressor w/out VSD | Misc. | Refrigeration | New | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |
| PPL | VSD Controlled Compressor | Compressor w/out VSD | Misc. | Refrigeration | ROB | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |
| PPL | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Misc. | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$269 | 24% | 0.9 |
| PPL | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Misc. | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$269 | 24% | 0.8 |
| PPL | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Misc. | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 24% | 3.0 |
| PPL | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Misc. | Refrigeration | New | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 24% | 2.9 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|---|---------|-----------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Misc. | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 24% | 3.0 |
| PPL | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Misc. | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 24% | 2.9 |
| PPL | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 24% | 2.3 |
| PPL | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 24% | 2.2 |
| PPL | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$151 | 24% | 4.1 |
| PPL | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$151 | 24% | 3.9 |
| PPL | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$151 | 24% | 4.1 |
| PPL | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Misc. | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$151 | 24% | 3.9 |
| PPL | Adding reflective roof treatment | Std color roof | Misc. | Space Heating | Existing | building | 2,597 | 7.1% | 0.07 | 6 | \$12,711 | 82% | 0.0 |
| PPL | Adding reflective roof treatment | Std color roof | Misc. | Space Heating | New | building | 2,597 | 7.1% | 0.07 | 6 | \$12,711 | 82% | 0.0 |
| PPL | Adding window shade film | No shade film | Misc. | Space Heating | Existing | building | 2,597 | 1.3% | 0.4 | 10 | \$32 | 13% | 6.6 |
| PPL | Adding window shade film | No shade film | Misc. | Space Heating | New | building | 2,597 | 1.3% | 0.4 | 10 | \$32 | 13% | 6.6 |
| PPL | Adding window shade screen | No shade screen | Misc. | Space Heating | Existing | building | 2,597 | 1.1% | 0.01 | 10 | \$12 | 13% | 1.3 |
| PPL | Adding window shade screen | No shade screen | Misc. | Space Heating | New | building | 2,597 | 1.1% | 0.01 | 10 | \$12 | 13% | 1.3 |
| PPL | Automated control system | Manual Controls | Misc. | Space Heating | Existing | building | 2,597 | 17% | 0.2 | 15 | \$2,844 | 51% | 0.1 |
| PPL | Automated control system | Manual Controls | Misc. | Space Heating | New | building | 2,597 | 17% | 0.2 | 15 | \$2,844 | 94% | 0.1 |
| PPL | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Misc. | Space Heating | Existing | building | 2,597 | 4.9% | 0.05 | 15 | \$17,130 | 71% | 0.0 |
| PPL | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Misc. | Space Heating | New | building | 2,597 | 1.7% | 0.02 | 15 | \$16,283 | 94% | 0.0 |
| PPL | Duct Insulation, Add R8 | No Insulation | Misc. | Space Heating | Existing | building | 2,597 | 1.4% | 0.04 | 15 | \$21 | 20% | 2.3 |
| PPL | Duct Insulation, Add R8 | No Insulation | Misc. | Space Heating | New | building | 2,597 | 1.4% | 0.04 | 15 | \$21 | 10% | 2.3 |
| PPL | Efficient Unit Heating System | Existing Unit Heaters in PA | Misc. | Space Heating | Early | heater | 31,042 | 23% | 0.05 | 15 | \$3,289 | 83% | 1.2 |
| PPL | Efficient Unit Heating System | Std. Unit Heater | Misc. | Space Heating | New | heater | 27,550 | 13% | 0.03 | 15 | \$1,985 | 83% | 1.0 |
| PPL | Efficient Unit Heating System | Std. Unit Heater | Misc. | Space Heating | ROB | heater | 27,550 | 13% | 0.03 | 15 | \$1,985 | 83% | 1.0 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Misc. | Space Heating | Existing | building | 2,597 | 7.1% | 0.07 | 15 | \$11,521 | 25% | 0.0 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Misc. | Space Heating | New | building | 2,597 | 7.1% | 0.07 | 15 | \$11,521 | 35% | 0.0 |
| PPL | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Misc. | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$77 | 32% | 1.0 |
| PPL | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Misc. | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$77 | 32% | 1.0 |
| PPL | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Misc. | Space Heating | Existing | building | 2,597 | 2.2% | 0.02 | 10 | \$7,735 | 81% | 0.0 |
| PPL | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Misc. | Space Heating | New | building | 2,597 | 2.2% | 0.02 | 10 | \$7,735 | 81% | 0.0 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Misc. | Space Heating | Existing | building | 2,597 | 3.6% | 0.04 | 11 | \$286 | 49% | 0.2 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Misc. | Space Heating | New | building | 2,597 | 3.1% | 0.03 | 11 | \$146 | 49% | 0.4 |
| PPL | Re-Commissioning (Existing Construction) | No Re-Commissioning | Misc. | Space Heating | Existing | building | 2,597 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |
| PPL | VFD on Cooling Tower Fan | Motor w/out VFD | Misc. | Space Heating | Early | motor | 16,452 | 70% | 0.09 | 15 | \$2,843 | 88% | 2.2 |
| PPL | VFD on Cooling Tower Fan | Motor w/out VFD | Misc. | Space Heating | New | motor | 16,144 | 72% | 0.09 | 15 | \$2,843 | 88% | 2.2 |
| PPL | VFD on Cooling Tower Fan | Motor w/out VFD | Misc. | Space Heating | ROB | motor | 16,144 | 72% | 0.09 | 15 | \$2,843 | 88% | 2.2 |
| PPL | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Misc. | Space Heating | Existing | building | 2,597 | 14% | 0.1 | 15 | \$5,133 | 26% | 0.1 |
| PPL | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Misc. | Space Heating | New | building | 2,597 | 0.4% | 0.00 | 15 | \$3,937 | 94% | 0.0 |
| PPL | Green LED Traffic Light | Green Incandescent Traffic Light | Misc. | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 0% | 1.2 |
| PPL | Green LED Traffic Light | Green Incandescent Traffic Light | Misc. | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| PPL | Green LED Traffic Light | Green Incandescent Traffic Light | Misc. | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| PPL | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Misc. | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 0% | 3.0 |
| PPL | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Misc. | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| PPL | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Misc. | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| PPL | Induction Street Lighting | One 100W HPS Street Light Fixture | Misc. | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 0% | 0.3 |
| PPL | Induction Street Lighting | One 100W HPS Street Light Fixture | Misc. | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.7 |
| PPL | Induction Street Lighting | One 100W HPS Street Light Fixture | Misc. | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.7 |
| PPL | LED Street Lighting | One 100W HPS Street Light | Misc. | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 0% | 0.2 |
| PPL | LED Street Lighting | One 100W HPS Street Light | Misc. | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| PPL | LED Street Lighting | One 100W HPS Street Light | Misc. | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| PPL | Red LED Traffic Light | One Red Incandescent Traffic Light | Misc. | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 0% | 1.6 |
| PPL | Red LED Traffic Light | One Red Incandescent Traffic Light | Misc. | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| PPL | Red LED Traffic Light | One Red Incandescent Traffic Light | Misc. | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| PPL | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Misc. | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 0% | 0.1 |
| PPL | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Misc. | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| PPL | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Misc. | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| PPL | Demand controlled Circulating Systems | Constant circulation system | Misc. | Water Heating | Existing | building | 1,351 | 20% | 0.2 | 15 | \$245 | 59% | 1.2 |
| PPL | Demand controlled Circulating Systems | Constant circulation system | Misc. | Water Heating | New | building | 1,351 | 20% | 0.2 | 15 | \$245 | 59% | 1.2 |
| PPL | Drainwater Heat Recovery Water Heater | No heat recovery | Misc. | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.9 |
| PPL | Drainwater Heat Recovery Water Heater | No heat recovery | Misc. | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.9 |
| PPL | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Misc. | Water Heating | Existing | building | 1,351 | 5.9% | 0.06 | 12 | \$14 | 85% | 5.2 |
| PPL | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Misc. | Water Heating | New | building | 1,351 | 5.9% | 0.06 | 12 | \$4.0 | 85% | 18.2 |
| PPL | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Misc. | Water Heating | Early | water heater | 10,645 | 66% | 1.2 | 10 | \$2,045 | 68% | 1.7 |
| PPL | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Misc. | Water Heating | Early | water heater | 10,645 | 66% | 1.2 | 10 | \$2,045 | 68% | 1.7 |
| PPL | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Misc. | Water Heating | New | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 2.9 |
| PPL | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Misc. | Water Heating | New | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 2.9 |
| PPL | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Misc. | Water Heating | ROB | water heater | 10,350 | 65% | 1.2 | 10 | \$1,187 | 68% | 2.8 |
| PPL | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Misc. | Water Heating | ROB | water heater | 10,350 | 65% | 1.2 | 10 | \$1,187 | 68% | 2.8 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|---|---------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Heat Recovery Unit | Base Water Heating | Misc. | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.6 |
| PPL | Heat Recovery Unit | Base Water Heating | Misc. | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.6 |
| PPL | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Misc. | Water Heating | Early | water heater | 3,246 | 5.9% | 0.03 | 15 | \$865 | 79% | 0.2 |
| PPL | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Misc. | Water Heating | Early | water heater | 3,246 | 5.9% | 0.03 | 15 | \$865 | 79% | 0.2 |
| PPL | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Misc. | Water Heating | New | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.8 |
| PPL | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Misc. | Water Heating | New | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.8 |
| PPL | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Misc. | Water Heating | ROB | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.8 |
| PPL | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Misc. | Water Heating | ROB | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.8 |
| PPL | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Misc. | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$646 | 81% | 28.2 |
| PPL | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Misc. | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 20.4 |
| PPL | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Misc. | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 20.4 |
| PPL | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Misc. | Water Heating | Existing | building | 1,351 | 2.7% | 0.03 | 13 | \$5.4 | 68% | 6.6 |
| PPL | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Misc. | Water Heating | New | building | 1,351 | 2.7% | 0.03 | 13 | \$5.4 | 0% | 6.6 |
| PPL | Hot Water Circulation Pump Time-Clock | Constant circulation system | Misc. | Water Heating | Existing | building | 1,351 | 5.3% | 0.05 | 10 | \$5.5 | 72% | 10.3 |
| PPL | Hot Water Circulation Pump Time-Clock | Constant circulation system | Misc. | Water Heating | New | building | 1,351 | 5.3% | 0.05 | 10 | \$5.5 | 72% | 10.3 |
| PPL | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Misc. | Water Heating | Existing | building | 1,242 | 2.9% | 0.03 | 7 | \$22 | 78% | 1.0 |
| PPL | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Misc. | Water Heating | New | building | 1,351 | 0.8% | 0.01 | 7 | \$0.5 | 78% | 12.8 |
| PPL | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Misc. | Water Heating | Existing | building | 1,351 | 13% | 0.1 | 5 | \$300 | 0% | 0.3 |
| PPL | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Misc. | Water Heating | New | building | 1,351 | 9.3% | 0.09 | 5 | \$194 | 0% | 0.3 |
| PPL | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Misc. | Water Heating | Existing | building | 1,351 | 6.5% | 0.07 | 9 | \$25 | 2% | 2.5 |
| PPL | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Misc. | Water Heating | New | building | 1,351 | 6.5% | 0.07 | 9 | \$6.0 | 2% | 10.6 |
| PPL | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Misc. | Water Heating | Early | water heater | 10,645 | 52% | 0.4 | 15 | \$7,080 | 32% | 0.5 |
| PPL | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Misc. | Water Heating | New | water heater | 10,350 | 51% | 0.4 | 15 | \$6,222 | 32% | 0.5 |
| PPL | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Misc. | Water Heating | ROB | water heater | 10,350 | 51% | 0.4 | 15 | \$6,222 | 32% | 0.5 |
| PPL | Ultrasonic Faucet Control | Manual Faucet Control | Misc. | Water Heating | Existing | building | 1,351 | 3.0% | 0.03 | 10 | \$234 | 77% | 0.1 |
| PPL | Ultrasonic Faucet Control | Manual Faucet Control | Misc. | Water Heating | New | building | 1,351 | 3.0% | 0.03 | 10 | \$234 | 77% | 0.1 |
| PPL | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Misc. | Water Heating | Existing | building | 1,351 | 2.2% | 0.02 | 4 | \$28 | 83% | 0.4 |
| PPL | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Misc. | Water Heating | New | building | 1,351 | 2.3% | 0.02 | 4 | \$28 | 83% | 0.4 |
| PPL | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Office | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.1 |
| PPL | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Office | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.1 |
| PPL | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Office | Cooking | Early | steamer | 51 | 46% | 0.00 | 12 | \$5,103 | 81% | 0.0 |
| PPL | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Office | Cooking | New | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| PPL | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Office | Cooking | ROB | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| PPL | Electric combination oven (Energy Star) | Standard Oven | Office | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.9 |
| PPL | Electric combination oven (Energy Star) | Standard Oven | Office | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.9 |
| PPL | Electric Convection Oven | Conventional convection oven w/ 65% efficiency | Office | Cooking | Early | oven | 8,641 | 37% | 0.6 | 12 | \$4,169 | 81% | 0.4 |
| PPL | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Office | Cooking | New | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.7 |
| PPL | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Office | Cooking | ROB | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.7 |
| PPL | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Office | Cooking | Early | fryer | 6,105 | 23% | 0.3 | 12 | \$9,291 | 86% | 0.1 |
| PPL | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Office | Cooking | New | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| PPL | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Office | Cooking | ROB | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| PPL | High Efficiency Griddle (ENERGY STAR) | Efficiency code minimum griddle (70% eff) | Office | Cooking | Early | griddle | 11,317 | 65% | 1.4 | 12 | \$4,992 | 86% | 0.8 |
| PPL | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Office | Cooking | New | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.2 |
| PPL | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Office | Cooking | ROB | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.2 |
| PPL | High Efficiency Induction Cooking | Standard Cooking | Office | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| PPL | High Efficiency Induction Cooking | Standard Cooking | Office | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| PPL | Active chilled beam cooling | No Active Chilled beam cooling | Office | Cooling Central | New | building | 1,184 | 5.3% | 0.05 | 15 | \$309 | 72% | 0.2 |
| PPL | Adding reflective roof treatment | Std color roof | Office | Cooling Central | Existing | building | 1,246 | 7.0% | 0.07 | 6 | \$12,197 | 82% | 0.0 |
| PPL | Adding reflective roof treatment | Std color roof | Office | Cooling Central | New | building | 1,246 | 7.0% | 0.07 | 6 | \$12,197 | 82% | 0.0 |
| PPL | Adding window shade film | No shade film | Office | Cooling Central | Existing | building | 1,246 | 1.3% | 0.4 | 10 | \$15 | 12% | 13.4 |
| PPL | Adding window shade film | No shade film | Office | Cooling Central | New | building | 1,246 | 1.3% | 0.4 | 10 | \$15 | 13% | 13.4 |
| PPL | Adding window shade screen | No shade screen | Office | Cooling Central | Existing | building | 1,246 | 1.1% | 0.01 | 10 | \$5.9 | 13% | 1.7 |
| PPL | Adding window shade screen | No shade screen | Office | Cooling Central | New | building | 1,246 | 1.0% | 0.01 | 10 | \$5.9 | 13% | 1.7 |
| PPL | Automated control system | Manual Controls | Office | Cooling Central | Existing | building | 1,246 | 17% | 0.2 | 15 | \$1,364 | 51% | 0.2 |
| PPL | Automated control system | Manual Controls | Office | Cooling Central | New | building | 1,246 | 17% | 0.2 | 15 | \$1,364 | 94% | 0.2 |
| PPL | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Office | Cooling Central | Existing | building | 1,246 | 4.9% | 0.05 | 15 | \$16,437 | 71% | 0.0 |
| PPL | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Office | Cooling Central | New | building | 1,246 | 2.3% | 0.02 | 15 | \$15,624 | 94% | 0.0 |
| PPL | Chilled Water Reset, Optimizer System for Chiller(s) | No Chilled Water Reset | Office | Cooling Central | Existing | building | 1,246 | 3.7% | 0.04 | 10 | \$5.7 | 69% | 6.5 |
| PPL | Chiller Tune Up Diagnostics | No Chiller Tune Up | Office | Cooling Central | Existing | building | 1,246 | 2.3% | 0.02 | 10 | \$1.2 | 59% | 18.1 |
| PPL | Chiller Tuneup/Diagnostics | No tuneup | Office | Cooling Central | Existing | building | 1,246 | 8.0% | 0.08 | 10 | \$3,182 | 59% | 0.0 |
| PPL | Chiller Tuneup/Diagnostics | No tuneup | Office | Cooling Central | New | building | 1,246 | 8.0% | 0.08 | 10 | \$3,182 | 59% | 0.0 |
| PPL | Cooling Tower Optimization | No Cooling Tower Optimization | Office | Cooling Central | Existing | building | 1,246 | 15% | 0.1 | 10 | \$17 | 73% | 8.6 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|---|---------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Duct Insulation, Add R8 | No Insulation | Office | Cooling Central | Existing | building | 1,246 | 1.4% | 0.04 | 15 | \$9.9 | 20% | 3.8 |
| PPL | Duct Insulation, Add R8 | No Insulation | Office | Cooling Central | New | building | 1,246 | 1.4% | 0.04 | 15 | \$9.9 | 10% | 3.8 |
| PPL | Facility Commissioning | No Facility Commissioning | Office | Cooling Central | New | building | 1,246 | 16% | 0.2 | 10 | \$46,875 | 89% | 0.0 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Office | Cooling Central | Existing | building | 1,246 | 7.0% | 0.07 | 15 | \$5,528 | 25% | 0.0 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Office | Cooling Central | New | building | 1,246 | 7.0% | 0.07 | 15 | \$5,528 | 35% | 0.0 |
| PPL | Hi Eff HVAC System Design | No HVAC Design | Office | Cooling Central | New | building | 1,246 | 0.8% | 0.01 | 10 | \$1,062 | 51% | 0.0 |
| PPL | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Office | Cooling Central | Early | ton | 4,365 | 24% | 0.4 | 15 | \$108,550 | 88% | 0.0 |
| PPL | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Office | Cooling Central | New | ton | 3,568 | 6.7% | 0.08 | 15 | \$12,927 | 88% | 0.0 |
| PPL | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Office | Cooling Central | ROB | ton | 3,568 | 6.7% | 0.08 | 15 | \$12,927 | 88% | 0.0 |
| PPL | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Office | Cooling Central | Early | ton | 6,522 | 23% | 0.5 | 15 | \$140,105 | 88% | 0.0 |
| PPL | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Office | Cooling Central | New | ton | 5,247 | 4.9% | 0.09 | 15 | \$9,336 | 88% | 0.0 |
| PPL | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Office | Cooling Central | ROB | ton | 5,247 | 4.9% | 0.09 | 15 | \$9,336 | 88% | 0.0 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Office | Cooling Central | Early | ton | 53,390 | 26% | 4.8 | 15 | \$105,354 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Office | Cooling Central | New | ton | 46,518 | 15% | 2.4 | 15 | \$30,530 | 88% | 0.2 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Office | Cooling Central | ROB | ton | 46,518 | 15% | 2.4 | 15 | \$30,530 | 88% | 0.2 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Office | Cooling Central | Early | ton | 79,963 | 23% | 6.4 | 15 | \$154,107 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Office | Cooling Central | New | ton | 73,456 | 16% | 4.1 | 15 | \$27,646 | 88% | 0.3 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Office | Cooling Central | ROB | ton | 79,963 | 23% | 6.4 | 15 | \$27,646 | 88% | 0.5 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Office | Cooling Central | Early | ton | 132,804 | 23% | 10.4 | 15 | \$302,924 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Office | Cooling Central | New | ton | 120,197 | 14% | 6.0 | 15 | \$115,432 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Office | Cooling Central | ROB | ton | 132,804 | 23% | 10.4 | 15 | \$115,432 | 88% | 0.2 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Office | Cooling Central | Early | ton | 159,365 | 23% | 12.5 | 15 | \$350,154 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Office | Cooling Central | New | ton | 144,236 | 14% | 7.3 | 15 | \$120,406 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Office | Cooling Central | ROB | ton | 159,365 | 23% | 12.5 | 15 | \$120,406 | 88% | 0.2 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Office | Cooling Central | Early | ton | 35,325 | 29% | 3.6 | 15 | \$83,632 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Office | Cooling Central | New | ton | 27,429 | 8.9% | 0.9 | 15 | \$40,211 | 88% | 0.0 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Office | Cooling Central | ROB | ton | 35,325 | 29% | 3.6 | 15 | \$40,211 | 88% | 0.2 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Office | Cooling Central | Early | ton | 60,696 | 35% | 7.3 | 15 | \$132,173 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Office | Cooling Central | New | ton | 45,269 | 13% | 2.0 | 15 | \$39,556 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Office | Cooling Central | ROB | ton | 45,269 | 13% | 2.0 | 15 | \$39,556 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Office | Cooling Central | Early | ton | 101,337 | 39% | 13.8 | 15 | \$187,029 | 88% | 0.2 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Office | Cooling Central | New | ton | 72,252 | 15% | 3.7 | 15 | \$33,554 | 88% | 0.2 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Office | Cooling Central | ROB | ton | 101,337 | 39% | 13.8 | 15 | \$33,554 | 88% | 0.9 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Office | Cooling Central | Early | ton | 17,733 | 30% | 1.8 | 15 | \$32,398 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Office | Cooling Central | New | ton | 14,049 | 11% | 0.5 | 15 | \$7,188 | 88% | 0.2 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Office | Cooling Central | ROB | ton | 17,733 | 30% | 1.8 | 15 | \$7,188 | 88% | 0.6 |
| PPL | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Office | Cooling Central | Existing | building | 1,246 | 2.8% | 0.03 | 10 | \$5,350 | 81% | 0.0 |
| PPL | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Office | Cooling Central | New | building | 1,246 | 2.8% | 0.03 | 10 | \$5,350 | 81% | 0.0 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Office | Cooling Central | Existing | building | 1,246 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.1 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Office | Cooling Central | New | building | 1,246 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.1 |
| PPL | Re-Commissioning (Existing Construction) | No Re-Commissioning | Office | Cooling Central | Existing | building | 1,246 | 16% | 0.2 | 5 | \$7,777 | 86% | 0.0 |
| PPL | Wall Insulations (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Office | Cooling Central | Existing | building | 1,246 | 15% | 0.2 | 15 | \$5,028 | 26% | 0.0 |
| PPL | Wall Insulations (Going upto R 21) | Code minimum Wall Insulations | Office | Cooling Central | New | building | 1,246 | 0.5% | 0.01 | 15 | \$3,857 | 94% | 0.0 |
| PPL | <65k BTU/hr 14 SEER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Office | Cooling Unitary | Early | ton | 1,399 | 16% | 0.2 | 15 | \$1,545 | 29% | 0.1 |
| PPL | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Office | Cooling Unitary | New | ton | 1,267 | 7.1% | 0.06 | 15 | \$339 | 29% | 0.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|--|---------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Office | Cooling Unitary | ROB | ton | 1,267 | 7.1% | 0.06 | 15 | \$339 | 29% | 0.3 |
| PPL | <65k BTU/hr 15 SEER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Office | Cooling Unitary | Early | ton | 1,399 | 22% | 0.1 | 15 | \$1,821 | 30% | 0.1 |
| PPL | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Office | Cooling Unitary | New | ton | 1,267 | 13% | 0.2 | 15 | \$714 | 30% | 0.3 |
| PPL | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Office | Cooling Unitary | ROB | ton | 1,267 | 13% | 0.2 | 15 | \$714 | 30% | 0.3 |
| PPL | <65k BTU/hr 16 SEER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Office | Cooling Unitary | Early | ton | 1,399 | 26% | 0.3 | 15 | \$2,098 | 31% | 0.2 |
| PPL | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Office | Cooling Unitary | New | ton | 1,267 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.2 |
| PPL | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Office | Cooling Unitary | ROB | ton | 1,267 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.2 |
| PPL | >760k min 10.2 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Office | Cooling Unitary | Early | ton | 35,391 | 3.7% | 0.9 | 15 | \$68,066 | 56% | 0.0 |
| PPL | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Office | Cooling Unitary | New | ton | 35,845 | 4.9% | 1.2 | 15 | \$6,231 | 56% | 0.3 |
| PPL | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Office | Cooling Unitary | ROB | ton | 35,845 | 4.9% | 1.2 | 15 | \$6,231 | 56% | 0.3 |
| PPL | 135-240k min 12 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Office | Cooling Unitary | Early | ton | 9,460 | 18% | 1.1 | 15 | \$18,135 | 79% | 0.1 |
| PPL | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Office | Cooling Unitary | New | ton | 8,605 | 10.0% | 0.6 | 15 | \$1,948 | 79% | 0.4 |
| PPL | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Office | Cooling Unitary | ROB | ton | 8,605 | 10.0% | 0.6 | 15 | \$1,948 | 79% | 0.4 |
| PPL | 240k-760k min 11 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Office | Cooling Unitary | Early | ton | 23,284 | 9.0% | 1.5 | 15 | \$44,809 | 66% | 0.0 |
| PPL | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Office | Cooling Unitary | New | ton | 23,342 | 9.3% | 1.5 | 15 | \$4,813 | 66% | 0.5 |
| PPL | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Office | Cooling Unitary | ROB | ton | 23,342 | 9.3% | 1.5 | 15 | \$4,813 | 66% | 0.5 |
| PPL | 65k-135k BTU/hr 12 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Office | Cooling Unitary | Early | ton | 5,133 | 17% | 0.6 | 15 | \$10,946 | 86% | 0.1 |
| PPL | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Office | Cooling Unitary | New | ton | 4,575 | 6.7% | 0.2 | 15 | \$1,392 | 86% | 0.2 |
| PPL | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Office | Cooling Unitary | ROB | ton | 4,575 | 6.7% | 0.2 | 15 | \$1,392 | 86% | 0.2 |
| PPL | Adding reflective roof treatment | Std color roof | Office | Cooling Unitary | Existing | building | 20,813 | 7.0% | 0.07 | 6 | \$12,197 | 82% | 0.0 |
| PPL | Adding reflective roof treatment | Std color roof | Office | Cooling Unitary | New | building | 20,813 | 7.0% | 0.07 | 6 | \$12,197 | 82% | 0.0 |
| PPL | Adding window shade film | No shade film | Office | Cooling Unitary | Existing | building | 20,813 | 1.3% | 0.4 | 10 | \$253 | 12% | 1.2 |
| PPL | Adding window shade film | No shade film | Office | Cooling Unitary | New | building | 20,813 | 1.3% | 0.4 | 10 | \$253 | 13% | 1.2 |
| PPL | Adding window shade screen | No shade screen | Office | Cooling Unitary | Existing | building | 20,813 | 1.1% | 0.01 | 10 | \$98 | 12% | 0.9 |
| PPL | Adding window shade screen | No shade screen | Office | Cooling Unitary | New | building | 20,813 | 1.1% | 0.01 | 10 | \$98 | 13% | 0.9 |
| PPL | Automated control system | Manual Controls | Office | Cooling Unitary | Existing | building | 20,813 | 17% | 0.2 | 15 | \$22,785 | 51% | 0.1 |
| PPL | Automated control system | Manual Controls | Office | Cooling Unitary | New | building | 20,813 | 17% | 0.2 | 15 | \$22,785 | 94% | 0.1 |
| PPL | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Office | Cooling Unitary | Existing | building | 20,813 | 4.9% | 0.05 | 15 | \$16,437 | 71% | 0.0 |
| PPL | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Office | Cooling Unitary | New | building | 20,813 | 2.3% | 0.02 | 15 | \$15,624 | 94% | 0.0 |
| PPL | Duct Insulation, Add R8 | No Insulation | Office | Cooling Unitary | Existing | building | 20,813 | 1.4% | 0.04 | 15 | \$165 | 20% | 1.1 |
| PPL | Duct Insulation, Add R8 | No Insulation | Office | Cooling Unitary | New | building | 20,813 | 1.4% | 0.04 | 15 | \$165 | 10% | 1.1 |
| PPL | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Office | Cooling Unitary | Existing | building | 11,374 | 13% | 0.1 | 1 | \$109 | 73% | 0.8 |
| PPL | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Office | Cooling Unitary | New | building | 11,374 | 13% | 0.1 | 1 | \$109 | 73% | 0.8 |
| PPL | ECM Motors for split systems | Std Shaded Pole Motor | Office | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.6 |
| PPL | ECM Motors for split systems | Std Shaded Pole Motor | Office | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.6 |
| PPL | Facility Commissioning | No Facility Commissioning | Office | Cooling Unitary | New | building | 20,813 | 16% | 0.2 | 10 | \$617 | 89% | 2.1 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Office | Cooling Unitary | Existing | building | 20,813 | 7.1% | 0.07 | 15 | \$92,320 | 25% | 0.0 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Office | Cooling Unitary | New | building | 20,813 | 7.0% | 0.07 | 15 | \$92,320 | 35% | 0.0 |
| PPL | Hi Eff HVAC System Design | No HVAC Design | Office | Cooling Unitary | New | building | 20,813 | 0.8% | 0.01 | 10 | \$107 | 51% | 0.6 |
| PPL | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Office | Cooling Unitary | Existing | building | 20,813 | 5.0% | 0.05 | 5 | \$225 | 59% | 1.0 |
| PPL | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Office | Cooling Unitary | Existing | building | 20,813 | 2.8% | 0.03 | 10 | \$5,750 | 86% | 0.0 |
| PPL | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Office | Cooling Unitary | New | building | 20,813 | 2.8% | 0.03 | 10 | \$5,750 | 86% | 0.0 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) | Office | Cooling Unitary | Existing | building | 20,813 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.6 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Office | Cooling Unitary | New | building | 20,813 | 1.7% | 0.02 | 11 | \$146 | 49% | 1.1 |
| PPL | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Office | Cooling Unitary | Early | unit | 473 | 19% | 0.06 | 15 | \$849 | 85% | 0.1 |
| PPL | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Office | Cooling Unitary | New | unit | 478 | 20% | 0.07 | 15 | \$356 | 85% | 0.3 |
| PPL | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Office | Cooling Unitary | ROB | unit | 478 | 20% | 0.07 | 15 | \$356 | 85% | 0.3 |
| PPL | Re-Commissioning (Existing Construction) | No Re-Commissioning | Office | Cooling Unitary | Existing | building | 20,813 | 16% | 0.2 | 5 | \$7,777 | 86% | 0.1 |
| PPL | Room AC (w/ louvered sides) | Existing efficiency Room AC in Pennsylvania (2000 Federal Standards) | Office | Cooling Unitary | Early | ton | 660 | 13% | 0.03 | 9 | \$348 | 82% | 0.1 |
| PPL | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Office | Cooling Unitary | New | ton | 599 | 4.5% | 0.01 | 9 | \$17 | 82% | 0.8 |
| PPL | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Office | Cooling Unitary | ROB | ton | 599 | 4.5% | 0.01 | 9 | \$17 | 82% | 0.8 |
| PPL | Wall Insualtions (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Office | Cooling Unitary | Existing | building | 20,813 | 15% | 0.2 | 15 | \$5,028 | 26% | 0.4 |
| PPL | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Office | Cooling Unitary | New | building | 20,813 | 0.5% | 0.01 | 15 | \$3,857 | 94% | 0.0 |
| PPL | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Office | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 1.1 |
| PPL | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Office | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.5 |
| PPL | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Office | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.5 |
| PPL | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Office | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 0% | 0.2 |
| PPL | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Office | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| PPL | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Office | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| PPL | LED exterior lighting | 250 Watt Incandescent | Office | Ext. Lighting | ROB | measure | 262 | 83% | 0.05 | 15 | \$104 | 89% | 1.5 |
| PPL | LED exterior lighting | 250 Watt Incandescent | Office | Ext. Lighting | ROB | measure | 277 | 83% | 0.05 | 15 | \$104 | 89% | 1.6 |
| PPL | LED exterior lighting | 250 Watt Incandescent | Office | Ext. Lighting | ROB | measure | 277 | 83% | 0.05 | 15 | \$104 | 89% | 1.6 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|---|---------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Office | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 53% | 0.3 |
| PPL | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Office | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 53% | 0.2 |
| PPL | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Office | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 53% | 2.8 |
| PPL | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Office | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 53% | 2.1 |
| PPL | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Office | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 53% | 2.8 |
| PPL | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Office | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 53% | 2.1 |
| PPL | Photocell Controls (Outdoor) | Lighting w/ No Controls | Office | Ext. Lighting | Existing | building | 421 | 28% | 0.3 | 8 | \$3,091 | 88% | 0.1 |
| PPL | Photocell Controls (Outdoor) | Lighting w/ No Controls | Office | Ext. Lighting | New | building | 421 | 28% | 0.3 | 8 | \$3,091 | 0% | 0.1 |
| PPL | Adding reflective roof treatment | Std color roof | Office | Heat Pump | Existing | building | 2,340 | 6.9% | 0.07 | 6 | \$12,197 | 82% | 0.0 |
| PPL | Adding reflective roof treatment | Std color roof | Office | Heat Pump | New | building | 2,340 | 6.9% | 0.07 | 6 | \$12,197 | 82% | 0.0 |
| PPL | Adding window shade film | No shade film | Office | Heat Pump | Existing | building | 2,340 | 3.9% | 0.4 | 10 | \$28 | 12% | 8.1 |
| PPL | Adding window shade film | No shade film | Office | Heat Pump | New | building | 2,340 | 3.9% | 0.4 | 10 | \$28 | 12% | 8.1 |
| PPL | Adding window shade screen | No shade screen | Office | Heat Pump | Existing | building | 2,340 | 0.3% | 0.01 | 10 | \$11 | 12% | 1.3 |
| PPL | Adding window shade screen | No shade screen | Office | Heat Pump | New | building | 2,340 | 0.3% | 0.01 | 10 | \$11 | 12% | 1.3 |
| PPL | Automated control system | Manual Controls | Office | Heat Pump | Existing | building | 2,340 | 17% | 0.2 | 15 | \$2,562 | 51% | 0.1 |
| PPL | Automated control system | Manual Controls | Office | Heat Pump | New | building | 2,340 | 17% | 0.2 | 15 | \$2,562 | 94% | 0.1 |
| PPL | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Office | Heat Pump | Existing | building | 2,340 | 4.9% | 0.05 | 15 | \$16,437 | 71% | 0.0 |
| PPL | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Office | Heat Pump | New | building | 2,340 | 2.3% | 0.02 | 15 | \$15,624 | 94% | 0.0 |
| PPL | Duct Insulation, Add R8 | No Insulation | Office | Heat Pump | Existing | building | 2,340 | 4.0% | 0.04 | 15 | \$19 | 12% | 4.3 |
| PPL | Duct Insulation, Add R8 | No Insulation | Office | Heat Pump | New | building | 2,340 | 4.0% | 0.04 | 15 | \$19 | 6% | 4.3 |
| PPL | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Office | Heat Pump | Early | heat pump | 1,012 | 13% | 0.01 | 15 | \$4,070 | 83% | 0.0 |
| PPL | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Office | Heat Pump | New | heat pump | 955 | 7.7% | 0.01 | 15 | \$1,097 | 83% | 0.0 |
| PPL | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Office | Heat Pump | ROB | heat pump | 955 | 7.7% | 0.01 | 15 | \$1,097 | 83% | 0.0 |
| PPL | Facility Commissioning | No Facility Commissioning | Office | Heat Pump | New | building | 2,340 | 16% | 0.2 | 10 | \$46,875 | 89% | 0.0 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Office | Heat Pump | Existing | building | 2,340 | 7.0% | 0.07 | 15 | \$10,380 | 25% | 0.0 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Office | Heat Pump | New | building | 2,340 | 7.0% | 0.07 | 15 | \$10,380 | 35% | 0.0 |
| PPL | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Office | Heat Pump | Early | heat pump | 10,629 | 19% | 0.2 | 15 | \$91,117 | 19% | 0.0 |
| PPL | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Office | Heat Pump | New | heat pump | 10,152 | 15% | 0.1 | 15 | \$33,927 | 19% | 0.0 |
| PPL | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Office | Heat Pump | ROB | heat pump | 10,152 | 15% | 0.1 | 15 | \$33,927 | 19% | 0.0 |
| PPL | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Office | Heat Pump | Early | heat pump | 10,629 | 19% | 0.2 | 15 | \$58,356 | 19% | 0.0 |
| PPL | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Office | Heat Pump | New | heat pump | 10,152 | 15% | 0.1 | 15 | \$1,167 | 19% | 0.8 |
| PPL | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Office | Heat Pump | ROB | heat pump | 10,152 | 15% | 0.1 | 15 | \$1,167 | 19% | 0.8 |
| PPL | Hi Eff HVAC System Design | No HVAC Design | Office | Heat Pump | New | building | 2,340 | 0.7% | 0.01 | 10 | \$1,062 | 51% | 0.0 |
| PPL | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Office | Heat Pump | Early | heat pump | 2,700 | 18% | 0.04 | 12 | \$4,298 | 81% | 0.1 |
| PPL | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Office | Heat Pump | Early | heat pump | 2,700 | 25% | 0.06 | 12 | \$5,883 | 81% | 0.1 |
| PPL | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Office | Heat Pump | New | heat pump | 2,546 | 13% | 0.03 | 12 | \$852 | 81% | 0.2 |
| PPL | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Office | Heat Pump | New | heat pump | 2,546 | 20% | 0.04 | 12 | \$2,437 | 81% | 0.1 |
| PPL | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Office | Heat Pump | ROB | heat pump | 2,546 | 13% | 0.03 | 12 | \$852 | 81% | 0.2 |
| PPL | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Office | Heat Pump | ROB | heat pump | 2,546 | 20% | 0.04 | 12 | \$2,437 | 81% | 0.1 |
| PPL | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Office | Heat Pump | Existing | building | 2,340 | 2.8% | 0.03 | 10 | \$5,119 | 81% | 0.0 |
| PPL | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Office | Heat Pump | New | building | 2,340 | 2.8% | 0.03 | 10 | \$5,119 | 81% | 0.0 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Office | Heat Pump | Existing | building | 2,340 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.1 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Office | Heat Pump | New | building | 2,340 | 2.1% | 0.02 | 11 | \$146 | 49% | 0.2 |
| PPL | Re-Commissioning (Existing Construction) | No Re-Commissioning | Office | Heat Pump | Existing | building | 2,340 | 16% | 0.2 | 5 | \$7,777 | 86% | 0.0 |
| PPL | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Office | Heat Pump | New | measure | 1,496,631 | 2.0% | 3.4 | 13 | \$188,409 | 43% | 0.1 |
| PPL | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Office | Heat Pump | ROB | measure | 1,496,631 | 2.0% | 3.4 | 13 | \$188,409 | 43% | 0.1 |
| PPL | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Office | Heat Pump | Existing | building | 2,340 | 15% | 0.2 | 15 | \$5,028 | 26% | 0.1 |
| PPL | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Office | Heat Pump | New | building | 2,340 | 0.5% | 0.01 | 15 | \$3,857 | 94% | 0.0 |
| PPL | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Office | Heat Pump | Early | heat pump | 4,233 | 31% | 0.1 | 15 | \$35,347 | 28% | 0.0 |
| PPL | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Office | Heat Pump | New | heat pump | 3,962 | 27% | 0.09 | 15 | \$15,739 | 28% | 0.0 |
| PPL | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Office | Heat Pump | ROB | heat pump | 3,962 | 27% | 0.09 | 15 | \$15,739 | 28% | 0.0 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Office | High Bay Lighting | Early | Fixture | 483 | 9.6% | 0.01 | 13 | \$875 | 39% | 0.0 |
| PPL | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Office | High Bay Lighting | Early | Fixture | 483 | 9.5% | 0.01 | 13 | \$875 | 28% | 0.0 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Office | High Bay Lighting | Early | Fixture | 745 | 41% | 0.08 | 13 | \$875 | 36% | 0.2 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Office | High Bay Lighting | New | Fixture | 367 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Office | High Bay Lighting | New | Fixture | 342 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Office | High Bay Lighting | New | Fixture | 566 | 41% | 0.06 | 13 | \$397 | 36% | 0.4 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Office | High Bay Lighting | ROB | Fixture | 483 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Office | High Bay Lighting | ROB | Fixture | 450 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Office | High Bay Lighting | ROB | Fixture | 745 | 41% | 0.08 | 13 | \$397 | 36% | 0.5 |
| PPL | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Office | High Bay Lighting | Early | Fixture | 938 | 19% | 0.05 | 13 | \$877 | 38% | 0.1 |
| PPL | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Office | High Bay Lighting | Early | Fixture | 950 | 20% | 0.05 | 13 | \$877 | 38% | 0.1 |
| PPL | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | Early | Fixture | 2,762 | 73% | 0.5 | 13 | \$877 | 38% | 1.5 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|---|---------|-------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Office | High Bay Lighting | New | Fixture | 713 | 19% | 0.03 | 13 | \$372 | 38% | 0.2 |
| PPL | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | New | Fixture | 2,099 | 73% | 0.4 | 13 | \$383 | 38% | 2.6 |
| PPL | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Office | High Bay Lighting | ROB | Fixture | 938 | 19% | 0.05 | 13 | \$372 | 38% | 0.3 |
| PPL | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | ROB | Fixture | 2,762 | 73% | 0.5 | 13 | \$383 | 38% | 3.5 |
| PPL | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Office | High Bay Lighting | Early | Fixture | 938 | 25% | 0.06 | 13 | \$580 | 29% | 0.3 |
| PPL | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Office | High Bay Lighting | Early | Fixture | 920 | 23% | 0.05 | 13 | \$580 | 28% | 0.2 |
| PPL | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | Early | Fixture | 2,762 | 74% | 0.5 | 13 | \$580 | 36% | 2.3 |
| PPL | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Office | High Bay Lighting | New | Fixture | 713 | 25% | 0.04 | 13 | \$75 | 29% | 1.6 |
| PPL | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | New | Fixture | 2,099 | 74% | 0.4 | 13 | \$86 | 36% | 12.0 |
| PPL | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Office | High Bay Lighting | ROB | Fixture | 938 | 25% | 0.06 | 13 | \$75 | 29% | 2.0 |
| PPL | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | ROB | Fixture | 2,762 | 74% | 0.5 | 13 | \$86 | 36% | 15.8 |
| PPL | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Office | High Bay Lighting | Early | Fixture | 245 | 0.2% | 0.00 | 13 | \$861 | 38% | 0.0 |
| PPL | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Office | High Bay Lighting | Early | Fixture | 527 | 54% | 0.07 | 13 | \$861 | 38% | 0.2 |
| PPL | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Office | High Bay Lighting | New | Fixture | 400 | 54% | 0.05 | 13 | \$382 | 38% | 0.4 |
| PPL | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Office | High Bay Lighting | ROB | Fixture | 527 | 54% | 0.07 | 13 | \$382 | 38% | 0.5 |
| PPL | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Office | High Bay Lighting | Early | Fixture | 1,195 | 18% | 0.05 | 13 | \$512 | 25% | 0.3 |
| PPL | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Office | High Bay Lighting | Early | Fixture | 1,249 | 22% | 0.07 | 13 | \$512 | 28% | 0.4 |
| PPL | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | Early | Fixture | 2,762 | 65% | 0.4 | 13 | \$512 | 36% | 2.3 |
| PPL | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Office | High Bay Lighting | New | Fixture | 908 | 18% | 0.04 | 13 | \$16 | 25% | 6.7 |
| PPL | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | New | Fixture | 2,099 | 65% | 0.3 | 13 | \$18 | 36% | 48.7 |
| PPL | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Office | High Bay Lighting | ROB | Fixture | 1,195 | 18% | 0.05 | 13 | \$16 | 25% | 8.8 |
| PPL | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | ROB | Fixture | 2,762 | 65% | 0.4 | 13 | \$18 | 36% | 64.0 |
| PPL | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Office | High Bay Lighting | Early | Fixture | 1,195 | 1.5% | 0.00 | 13 | \$582 | 19% | 0.0 |
| PPL | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Office | High Bay Lighting | Early | Fixture | 1,230 | 4.3% | 0.01 | 13 | \$582 | 19% | 0.1 |
| PPL | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | Early | Fixture | 2,762 | 57% | 0.4 | 13 | \$582 | 19% | 1.8 |
| PPL | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Office | High Bay Lighting | New | Fixture | 908 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| PPL | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | New | Fixture | 2,099 | 57% | 0.3 | 13 | \$88 | 19% | 9.0 |
| PPL | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Office | High Bay Lighting | ROB | Fixture | 1,195 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| PPL | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | ROB | Fixture | 2,762 | 57% | 0.4 | 13 | \$88 | 19% | 11.9 |
| PPL | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Office | High Bay Lighting | Early | Fixture | 507 | 29% | 0.03 | 13 | \$517 | 71% | 0.2 |
| PPL | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Office | High Bay Lighting | Early | Fixture | 424 | 15% | 0.01 | 13 | \$517 | 95% | 0.1 |
| PPL | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Office | High Bay Lighting | Early | Fixture | 630 | 43% | 0.05 | 13 | \$517 | 95% | 0.3 |
| PPL | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Office | High Bay Lighting | Early | Fixture | 584 | 38% | 0.04 | 13 | \$517 | 95% | 0.3 |
| PPL | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Office | High Bay Lighting | New | Fixture | 322 | 15% | 0.01 | 13 | \$25 | 95% | 1.2 |
| PPL | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Office | High Bay Lighting | New | Fixture | 479 | 43% | 0.04 | 13 | \$51 | 95% | 2.4 |
| PPL | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Office | High Bay Lighting | ROB | Fixture | 424 | 15% | 0.01 | 13 | \$25 | 95% | 1.6 |
| PPL | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Office | High Bay Lighting | ROB | Fixture | 630 | 43% | 0.05 | 13 | \$51 | 95% | 3.2 |
| PPL | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Office | High Bay Lighting | Early | lamp | 86 | 16% | 0.00 | 12 | \$8.7 | 99% | 1.0 |
| PPL | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Office | High Bay Lighting | New | lamp | 51 | 13% | 0.00 | 12 | \$1.6 | 91% | 2.4 |
| PPL | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Office | High Bay Lighting | ROB | lamp | 82 | 13% | 0.00 | 12 | \$1.6 | 91% | 3.9 |
| PPL | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Office | High Bay Lighting | Early | Fixture | 2,826 | 23% | 0.2 | 13 | \$639 | 5% | 0.7 |
| PPL | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Office | High Bay Lighting | Early | Fixture | 2,220 | 1.6% | 0.01 | 13 | \$639 | 28% | 0.0 |
| PPL | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Office | High Bay Lighting | Early | Fixture | 5,524 | 60% | 0.8 | 13 | \$639 | 18% | 3.4 |
| PPL | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Office | High Bay Lighting | New | Fixture | 2,148 | 23% | 0.1 | 13 | \$96 | 5% | 3.3 |
| PPL | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Office | High Bay Lighting | ROB | Fixture | 2,826 | 23% | 0.2 | 13 | \$96 | 5% | 4.4 |
| PPL | Auto Off Time Switch | Lighting w/ No Controls | Office | High Bay Lighting | Existing | building | 481 | 24% | 0.2 | 8 | \$628 | 13% | 0.2 |
| PPL | Auto Off Time Switch | Lighting w/ No Controls | Office | High Bay Lighting | New | building | 481 | 6.9% | 0.07 | 8 | \$628 | 0% | 0.1 |
| PPL | Central Lighting Control System | Lighting w/ No Controls | Office | High Bay Lighting | Existing | building | 481 | 38% | 0.4 | 8 | \$628 | 13% | 0.4 |
| PPL | Central Lighting Control System | Lighting w/ No Controls | Office | High Bay Lighting | New | building | 481 | 14% | 0.1 | 8 | \$628 | 13% | 0.1 |
| PPL | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Office | High Bay Lighting | New | building | 481 | 10% | 0.1 | 15 | \$28,258 | 32% | 0.0 |
| PPL | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Office | High Bay Lighting | New | building | 481 | 15% | 0.2 | 15 | \$70,645 | 32% | 0.0 |
| PPL | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Office | High Bay Lighting | New | building | 481 | 30% | 0.3 | 15 | \$101,258 | 32% | 0.0 |
| PPL | Indoor Daylight Sensors | Lighting w/ No Controls | Office | High Bay Lighting | Existing | building | 481 | 28% | 0.3 | 8 | \$3,091 | 13% | 0.1 |
| PPL | Indoor Daylight Sensors | Lighting w/ No Controls | Office | High Bay Lighting | New | building | 481 | 4.1% | 0.04 | 8 | \$3,091 | 0% | 0.0 |
| PPL | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Office | High Bay Lighting | Early | Fixture | 2,826 | 92% | 0.7 | 13 | \$1,941 | 95% | 0.9 |
| PPL | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | Early | Fixture | 5,524 | 96% | 1.3 | 13 | \$1,941 | 95% | 1.8 |
| PPL | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Office | High Bay Lighting | New | Fixture | 2,148 | 92% | 0.5 | 13 | \$1,468 | 95% | 0.9 |
| PPL | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | New | Fixture | 4,198 | 96% | 1.0 | 13 | \$1,149 | 95% | 2.3 |
| PPL | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Office | High Bay Lighting | ROB | Fixture | 2,826 | 92% | 0.7 | 13 | \$1,468 | 95% | 1.2 |
| PPL | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Office | High Bay Lighting | ROB | Fixture | 5,524 | 96% | 1.3 | 13 | \$1,149 | 95% | 3.0 |
| PPL | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Office | High Bay Lighting | Early | Fixture | 938 | 67% | 0.2 | 13 | \$985 | 95% | 0.4 |
| PPL | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Office | High Bay Lighting | Early | Fixture | 2,762 | 89% | 0.6 | 13 | \$985 | 95% | 1.6 |
| PPL | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Office | High Bay Lighting | Early | Fixture | 758 | 59% | 0.1 | 13 | \$985 | 95% | 0.3 |
| PPL | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Office | High Bay Lighting | New | Fixture | 713 | 67% | 0.1 | 13 | \$480 | 95% | 0.7 |
| PPL | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Office | High Bay Lighting | New | Fixture | 2,099 | 89% | 0.5 | 13 | \$491 | 95% | 2.5 |
| PPL | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Office | High Bay Lighting | New | Fixture | 576 | 59% | 0.08 | 13 | \$406 | 95% | 0.5 |
| PPL | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Office | High Bay Lighting | ROB | Fixture | 938 | 67% | 0.2 | 13 | \$480 | 95% | 0.9 |
| PPL | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Office | High Bay Lighting | ROB | Fixture | 2,762 | 89% | 0.6 | 13 | \$491 | 95% | 3.3 |
| PPL | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Office | High Bay Lighting | ROB | Fixture | 758 | 59% | 0.1 | 13 | \$406 | 95% | 0.7 |
| PPL | Occupancy Sensor | Lighting w/ No Controls | Office | High Bay Lighting | Existing | building | 481 | 24% | 0.2 | 8 | \$946 | 12% | 0.2 |
| PPL | Occupancy Sensor | Lighting w/ No Controls | Office | High Bay Lighting | New | building | 481 | 6.9% | 0.07 | 8 | \$946 | 0% | 0.0 |
| PPL | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Office | High Bay Lighting | Existing | building | 481 | 28% | 0.3 | 8 | \$3,091 | 12% | 0.1 |
| PPL | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Office | High Bay Lighting | New | building | 481 | 4.0% | 0.04 | 8 | \$3,091 | 0% | 0.0 |
| PPL | Time Clock Control | Lighting w/ No Controls | Office | High Bay Lighting | Existing | building | 481 | 28% | 0.3 | 8 | \$628 | 13% | 0.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|--|---------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Time Clock Control | Lighting w/ No Controls | Office | High Bay Lighting | New | building | 481 | 4.1% | 0.04 | 8 | \$628 | 0% | 0.0 |
| PPL | Auto Off Time Switch | Lighting w/ No Controls | Office | Lin. Fluor. Lighting | Existing | building | 11,832 | 24% | 0.2 | 8 | \$628 | 13% | 1.6 |
| PPL | Auto Off Time Switch | Lighting w/ No Controls | Office | Lin. Fluor. Lighting | New | building | 11,832 | 6.9% | 0.07 | 8 | \$628 | 0% | 0.5 |
| PPL | Central Lighting Control System | Lighting w/ No Controls | Office | Lin. Fluor. Lighting | Existing | building | 11,832 | 38% | 0.4 | 8 | \$628 | 12% | 2.6 |
| PPL | Central Lighting Control System | Lighting w/ No Controls | Office | Lin. Fluor. Lighting | New | building | 11,832 | 14% | 0.1 | 8 | \$628 | 12% | 1.0 |
| PPL | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Office | Lin. Fluor. Lighting | New | building | 11,832 | 10% | 0.1 | 15 | \$28,258 | 32% | 0.0 |
| PPL | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Office | Lin. Fluor. Lighting | New | building | 11,832 | 15% | 0.2 | 15 | \$70,645 | 32% | 0.0 |
| PPL | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Office | Lin. Fluor. Lighting | New | building | 11,832 | 30% | 0.3 | 15 | \$101,258 | 32% | 0.0 |
| PPL | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Office | Lin. Fluor. Lighting | Early | Lamp | 172 | 38% | 0.01 | 12 | \$8.3 | 94% | 4.6 |
| PPL | Indoor Daylight Sensors | Lighting w/ No Controls | Office | Lin. Fluor. Lighting | Existing | building | 11,832 | 28% | 0.3 | 8 | \$3,091 | 13% | 0.4 |
| PPL | Indoor Daylight Sensors | Lighting w/ No Controls | Office | Lin. Fluor. Lighting | New | building | 11,832 | 4.1% | 0.04 | 8 | \$3,091 | 0% | 0.1 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Office | Lin. Fluor. Lighting | Early | Lamp | 61 | 19% | 0.00 | 15 | \$36 | 94% | 0.2 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 40W T12 Lamp, Magnetic Ballast | Office | Lin. Fluor. Lighting | Early | Lamp | 134 | 63% | 0.02 | 15 | \$36 | 94% | 1.8 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Office | Lin. Fluor. Lighting | Early | Lamp | 75 | 34% | 0.01 | 15 | \$36 | 94% | 0.5 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Office | Lin. Fluor. Lighting | Early | Lamp | 73 | 32% | 0.01 | 15 | \$36 | 94% | 0.5 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Office | Lin. Fluor. Lighting | New | Lamp | 47 | 19% | 0.00 | 15 | \$28 | 94% | 0.2 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Office | Lin. Fluor. Lighting | New | Lamp | 56 | 32% | 0.00 | 15 | \$29 | 94% | 0.5 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Office | Lin. Fluor. Lighting | New | Lamp | 57 | 34% | 0.00 | 15 | \$22 | 94% | 0.7 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Office | Lin. Fluor. Lighting | New | Lamp | 56 | 32% | 0.00 | 15 | \$29 | 94% | 0.5 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Office | Lin. Fluor. Lighting | ROB | Lamp | 61 | 19% | 0.00 | 15 | \$28 | 94% | 0.3 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Office | Lin. Fluor. Lighting | ROB | Lamp | 73 | 32% | 0.01 | 15 | \$29 | 94% | 0.6 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Office | Lin. Fluor. Lighting | ROB | Lamp | 75 | 34% | 0.01 | 15 | \$22 | 94% | 0.9 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Office | Lin. Fluor. Lighting | ROB | Lamp | 73 | 32% | 0.01 | 15 | \$29 | 94% | 0.6 |
| PPL | Occupancy Sensor | Lighting w/ No Controls | Office | Lin. Fluor. Lighting | Existing | building | 11,832 | 24% | 0.2 | 8 | \$946 | 13% | 1.1 |
| PPL | Occupancy Sensor | Lighting w/ No Controls | Office | Lin. Fluor. Lighting | New | building | 11,832 | 7.0% | 0.07 | 8 | \$946 | 0% | 0.3 |
| PPL | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Office | Lin. Fluor. Lighting | Existing | building | 11,832 | 28% | 0.3 | 8 | \$3,091 | 12% | 0.4 |
| PPL | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Office | Lin. Fluor. Lighting | New | building | 11,832 | 4.1% | 0.04 | 8 | \$3,091 | 0% | 0.1 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 40W T12 w/ Magnetic Ballast | Office | Lin. Fluor. Lighting | Early | Lamp | 172 | 54% | 0.02 | 12 | \$9.1 | 94% | 6.0 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Office | Lin. Fluor. Lighting | Early | Lamp | 110 | 28% | 0.01 | 12 | \$9.1 | 24% | 2.0 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Office | Lin. Fluor. Lighting | Early | Lamp | 107 | 26% | 0.01 | 12 | \$9.1 | 94% | 1.8 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Office | Lin. Fluor. Lighting | New | Lamp | 81 | 26% | 0.00 | 12 | \$2.5 | 94% | 4.9 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Office | Lin. Fluor. Lighting | New | Lamp | 81 | 26% | 0.00 | 12 | \$2.5 | 94% | 4.9 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Office | Lin. Fluor. Lighting | New | Lamp | 84 | 28% | 0.00 | 12 | \$2.5 | 24% | 5.5 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Office | Lin. Fluor. Lighting | New | Lamp | 81 | 26% | 0.00 | 12 | \$2.5 | 94% | 4.9 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Office | Lin. Fluor. Lighting | ROB | Lamp | 107 | 26% | 0.01 | 12 | \$2.5 | 94% | 6.4 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Office | Lin. Fluor. Lighting | ROB | Lamp | 107 | 26% | 0.01 | 12 | \$2.5 | 94% | 6.4 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Office | Lin. Fluor. Lighting | ROB | Lamp | 110 | 28% | 0.01 | 12 | \$2.5 | 24% | 7.2 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Office | Lin. Fluor. Lighting | ROB | Lamp | 107 | 26% | 0.01 | 12 | \$2.5 | 94% | 6.4 |
| PPL | T8 Lamp (any length) Electronic Ballast | Standard T12 lamp (any length) | Office | Lin. Fluor. Lighting | Early | Lamp | 202 | 42% | 0.02 | 13 | \$15 | 94% | 3.6 |
| PPL | Time Clock Control | Lighting w/ No Controls | Office | Lin. Fluor. Lighting | Existing | building | 11,832 | 28% | 0.3 | 8 | \$628 | 14% | 1.9 |
| PPL | Time Clock Control | Lighting w/ No Controls | Office | Lin. Fluor. Lighting | New | building | 11,832 | 4.1% | 0.04 | 8 | \$628 | 0% | 0.3 |
| PPL | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Office | Motors | Early | motor | 1,698 | 3.7% | 0.01 | 15 | \$374 | 76% | 0.1 |
| PPL | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Office | Motors | Early | motor | 1,698 | 3.7% | 0.01 | 15 | \$374 | 76% | 0.1 |
| PPL | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Office | Motors | Early | motor | 1,698 | 3.7% | 0.01 | 15 | \$374 | 76% | 0.1 |
| PPL | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Office | Motors | Early | motor | 1,698 | 3.7% | 0.01 | 15 | \$374 | 76% | 0.1 |
| PPL | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Office | Motors | New | motor | 1,646 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.1 |
| PPL | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Office | Motors | New | motor | 1,646 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.1 |
| PPL | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Office | Motors | New | motor | 1,646 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.1 |
| PPL | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Office | Motors | New | motor | 1,646 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.1 |
| PPL | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Office | Motors | ROB | motor | 1,646 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.1 |
| PPL | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Office | Motors | ROB | motor | 1,646 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.1 |
| PPL | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Office | Motors | ROB | motor | 1,646 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.1 |
| PPL | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Office | Motors | ROB | motor | 1,646 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.1 |
| PPL | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Office | Motors | Early | motor | 2,504 | 3.1% | 0.01 | 15 | \$402 | 76% | 0.1 |
| PPL | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Office | Motors | Early | motor | 2,504 | 3.1% | 0.01 | 15 | \$402 | 76% | 0.1 |
| PPL | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Office | Motors | Early | motor | 2,504 | 3.1% | 0.01 | 15 | \$402 | 76% | 0.1 |
| PPL | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Office | Motors | Early | motor | 2,504 | 3.1% | 0.01 | 15 | \$402 | 76% | 0.1 |
| PPL | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Office | Motors | New | motor | 2,441 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.1 |
| PPL | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Office | Motors | New | motor | 2,441 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|--|---------|---------------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Auto Off Time Switch | Lighting w/ No Controls | Office | Other Int. Lighting | Existing | building | 3,638 | 24% | 0.2 | 8 | \$628 | 13% | 0.6 |
| PPL | Auto Off Time Switch | Lighting w/ No Controls | Office | Other Int. Lighting | New | building | 3,638 | 7.0% | 0.07 | 8 | \$628 | 0% | 0.2 |
| PPL | Central Lighting Control System | Lighting w/ No Controls | Office | Other Int. Lighting | Existing | building | 3,638 | 38% | 0.4 | 8 | \$628 | 13% | 1.0 |
| PPL | Central Lighting Control System | Lighting w/ No Controls | Office | Other Int. Lighting | New | building | 3,638 | 14% | 0.1 | 8 | \$628 | 13% | 0.4 |
| PPL | Cold Cathode Screw-In Bulb | 40W Incandescent Bulb | Office | Other Int. Lighting | Early | lamp | 141 | 87% | 0.03 | 11 | \$33 | 14% | 2.1 |
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Office | Other Int. Lighting | Early | lamp | 101 | 81% | 0.02 | 11 | \$33 | 11% | 1.4 |
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Office | Other Int. Lighting | New | lamp | 77 | 81% | 0.02 | 11 | \$24 | 14% | 1.5 |
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Office | Other Int. Lighting | New | lamp | 77 | 81% | 0.02 | 11 | \$25 | 14% | 1.4 |
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Office | Other Int. Lighting | New | lamp | 77 | 81% | 0.02 | 11 | \$24 | 11% | 1.5 |
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Office | Other Int. Lighting | ROB | lamp | 101 | 81% | 0.02 | 11 | \$24 | 14% | 2.0 |
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Office | Other Int. Lighting | ROB | lamp | 101 | 81% | 0.02 | 11 | \$25 | 14% | 1.9 |
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Office | Other Int. Lighting | ROB | lamp | 101 | 81% | 0.02 | 11 | \$24 | 11% | 1.9 |
| PPL | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Office | Other Int. Lighting | Early | lamp | 141 | 75% | 0.03 | 4 | \$73 | 39% | 0.3 |
| PPL | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Office | Other Int. Lighting | New | lamp | 154 | 65% | 0.02 | 13 | \$29 | 46% | 2.3 |
| PPL | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Office | Other Int. Lighting | New | lamp | 77 | 65% | 0.01 | 4 | \$29 | 46% | 0.4 |
| PPL | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Office | Other Int. Lighting | ROB | lamp | 203 | 65% | 0.03 | 13 | \$29 | 39% | 3.0 |
| PPL | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Office | Other Int. Lighting | ROB | lamp | 101 | 65% | 0.02 | 4 | \$29 | 39% | 0.5 |
| PPL | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Office | Other Int. Lighting | Early | lamp | 141 | 75% | 0.03 | 4 | \$3.6 | 24% | 7.0 |
| PPL | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Office | Other Int. Lighting | New | lamp | 77 | 65% | 0.01 | 4 | \$1.8 | 24% | 6.7 |
| PPL | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Office | Other Int. Lighting | ROB | lamp | 101 | 65% | 0.02 | 4 | \$1.8 | 24% | 8.8 |
| PPL | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Office | Other Int. Lighting | ROB | lamp | 101 | 65% | 0.02 | 4 | \$1.8 | 24% | 8.8 |
| PPL | Exit Sign Retrofit: CFL replacing Incandescent | One 23W Single Sided Incandescent Exit Sign | Office | Other Int. Lighting | Early | exit sign | 140 | 42% | 0.01 | 15 | \$78 | 22% | 0.5 |
| PPL | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Office | Other Int. Lighting | New | building | 3,638 | 10% | 0.1 | 15 | \$28,258 | 32% | 0.0 |
| PPL | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Office | Other Int. Lighting | New | building | 3,638 | 15% | 0.2 | 15 | \$70,645 | 32% | 0.0 |
| PPL | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Office | Other Int. Lighting | New | building | 3,638 | 30% | 0.3 | 15 | \$101,258 | 32% | 0.0 |
| PPL | Indoor Daylight Sensors | Lighting w/ No Controls | Office | Other Int. Lighting | Existing | building | 3,638 | 28% | 0.3 | 8 | \$3,091 | 13% | 0.1 |
| PPL | Indoor Daylight Sensors | Lighting w/ No Controls | Office | Other Int. Lighting | New | building | 3,638 | 4.1% | 0.04 | 8 | \$3,091 | 0% | 0.0 |
| PPL | LED Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Office | Other Int. Lighting | Early | sign | 153 | 87% | 0.02 | 15 | \$78 | 16% | 1.1 |
| PPL | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Office | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 2.0 |
| PPL | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Office | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 2.0 |
| PPL | LED Task Lighting/Screw-In | 1 15W CFL bulb | Office | Other Int. Lighting | Early | lamp | 22 | 33% | 0.00 | 15 | \$9.6 | 24% | 0.3 |
| PPL | LED Task Lighting/Screw-In | 1 60W Incandescent Bulb | Office | Other Int. Lighting | Early | lamp | 88 | 83% | 0.02 | 15 | \$9.6 | 24% | 2.6 |
| PPL | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Office | Other Int. Lighting | New | lamp | 48 | 77% | 0.01 | 15 | \$7.9 | 24% | 1.6 |
| PPL | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Office | Other Int. Lighting | New | lamp | 48 | 77% | 0.01 | 15 | \$7.9 | 24% | 1.6 |
| PPL | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Office | Other Int. Lighting | ROB | lamp | 63 | 77% | 0.01 | 15 | \$7.9 | 24% | 2.1 |
| PPL | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Office | Other Int. Lighting | ROB | lamp | 63 | 77% | 0.01 | 15 | \$7.9 | 24% | 2.1 |
| PPL | Occupancy Sensor | Lighting w/ No Controls | Office | Other Int. Lighting | Existing | building | 3,638 | 24% | 0.2 | 8 | \$946 | 12% | 0.4 |
| PPL | Occupancy Sensor | Lighting w/ No Controls | Office | Other Int. Lighting | New | building | 3,638 | 7.0% | 0.07 | 8 | \$946 | 0% | 0.1 |
| PPL | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Office | Other Int. Lighting | Existing | building | 3,638 | 28% | 0.3 | 8 | \$3,091 | 12% | 0.1 |
| PPL | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Office | Other Int. Lighting | New | building | 3,638 | 4.1% | 0.04 | 8 | \$3,091 | 0% | 0.0 |
| PPL | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Office | Other Int. Lighting | Early | exit sign | 140 | 100% | 0.02 | 15 | \$203 | 26% | 0.5 |
| PPL | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Office | Other Int. Lighting | New | exit sign | 81 | 100% | 0.01 | 15 | \$148 | 31% | 0.4 |
| PPL | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Office | Other Int. Lighting | ROB | exit sign | 81 | 100% | 0.01 | 15 | \$148 | 26% | 0.4 |
| PPL | Time Clock Control | Lighting w/ No Controls | Office | Other Int. Lighting | Existing | building | 3,638 | 28% | 0.3 | 8 | \$628 | 13% | 0.7 |
| PPL | Time Clock Control | Lighting w/ No Controls | Office | Other Int. Lighting | New | building | 3,638 | 4.1% | 0.04 | 8 | \$628 | 0% | 0.1 |
| PPL | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Office | Plug Load | Existing | building | 2,913 | 46% | 0.5 | 5 | \$189 | 4% | 2.2 |
| PPL | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Office | Plug Load | New | building | 1,422 | 46% | 0.5 | 5 | \$189 | 4% | 1.5 |
| PPL | Data Center - Server/Storage Consolidation | No Consolidation | Office | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 36% | 0.0 |
| PPL | Data Center - Server/Storage Consolidation | No Consolidation | Office | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 36% | 0.0 |
| PPL | Data Center - Server/Storage Virtualization | No Virtualization | Office | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 36% | 0.0 |
| PPL | Data Center - Server/Storage Virtualization | No Virtualization | Office | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 36% | 0.0 |
| PPL | Energy Star - Scanners | Std Scanner | Office | Plug Load | New | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 88% | 0.1 |
| PPL | Energy Star - Scanners | Std Scanner | Office | Plug Load | ROB | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 88% | 0.1 |
| PPL | Energy Star Battery Charging System (for small cordless products) | Std. Battery Charging System | Office | Plug Load | ROB | measure | 593 | 2.3% | 1.3 | 5 | \$65 | 4% | 6.0 |
| PPL | Energy Star Dishwasher | Existing Dishwasher units | Office | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,580 | 1% | 1.0 |
| PPL | Energy Star Dishwasher | Standard Dishwasher unit | Office | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 1% | 3.3 |
| PPL | Energy Star Dishwasher | Standard Dishwasher unit | Office | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 1% | 3.3 |
| PPL | Energy Star External Power Adapter | Std. Power Adapter | Office | Plug Load | New | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| PPL | Energy Star External Power Adapter | Std. Power Adapter | Office | Plug Load | ROB | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| PPL | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Office | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 17% | 0.1 |
| PPL | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Office | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 1.6 |
| PPL | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Office | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 1.6 |
| PPL | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Office | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 9% | 0.8 |
| PPL | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Office | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.6 |
| PPL | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Office | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.6 |
| PPL | ENERGY STAR® Copiers | 10% Less Efficient Copier | Office | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 80% | 0.0 |
| PPL | ENERGY STAR® Copiers | One Conventional Copier | Office | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 80% | 0.0 |
| PPL | ENERGY STAR® Copiers | One Conventional Copier | Office | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 80% | 0.0 |
| PPL | ENERGY STAR® desktop | Standard computer | Office | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 87% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|---|---------|---------------|----------|-------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | ENERGY STAR® desktop | Standard computer | Office | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 87% | 2.2 |
| PPL | ENERGY STAR® desktop | Standard computer | Office | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 87% | 2.2 |
| PPL | ENERGY STAR® Fax | 10% Less Efficient Fax | Office | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 89% | 0.0 |
| PPL | ENERGY STAR® Fax | One Conventional Fax | Office | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 89% | 0.2 |
| PPL | ENERGY STAR® Fax | One Conventional Fax | Office | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 89% | 0.2 |
| PPL | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Office | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 89% | 0.0 |
| PPL | ENERGY STAR® Monitors | One Conventional Monitor | Office | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 89% | 0.0 |
| PPL | ENERGY STAR® Monitors | One Conventional Monitor | Office | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 89% | 0.0 |
| PPL | ENERGY STAR® Printers | 10% Less Efficient Printer | Office | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 89% | 0.0 |
| PPL | ENERGY STAR® Printers | One Conventional Printer | Office | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 89% | 0.3 |
| PPL | ENERGY STAR® Printers | One Conventional Printer | Office | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$130 | 89% | 0.3 |
| PPL | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Office | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 87% | 0.1 |
| PPL | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Office | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 87% | 0.8 |
| PPL | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Office | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 87% | 0.8 |
| PPL | ENERGY STAR® Televisions | 10% Less Efficient Television | Office | Plug Load | Early | Unit | 179 | 38% | 0.01 | 6 | \$672 | 85% | 0.0 |
| PPL | ENERGY STAR® Televisions | One Conventional Television | Office | Plug Load | New | Unit | 163 | 32% | 0.01 | 6 | \$206 | 85% | 0.1 |
| PPL | ENERGY STAR® Televisions | One Conventional Television | Office | Plug Load | ROB | Unit | 163 | 32% | 0.01 | 6 | \$206 | 85% | 0.1 |
| PPL | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Office | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 81% | 0.3 |
| PPL | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Office | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 81% | 0.6 |
| PPL | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Office | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 81% | 0.6 |
| PPL | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Office | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 51% | 0.2 |
| PPL | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Office | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 51% | 0.2 |
| PPL | Network PC Power Management | No PC Power Management | Office | Plug Load | Existing | computer | 425 | 33% | 0.01 | 5 | \$30 | 38% | 1.0 |
| PPL | Network PC Power Management | No PC Power Management | Office | Plug Load | New | computer | 425 | 33% | 0.01 | 5 | \$30 | 38% | 1.0 |
| PPL | Smart Strip Plug Outlets | Standard plug strip/outlet | Office | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.4 |
| PPL | Smart Strip Plug Outlets | Standard plug strip/outlet | Office | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.4 |
| PPL | Smart Strip Plug Outlets | Standard plug strip/outlet | Office | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PPL | Smart Strip Plug Outlets | Standard plug strip/outlet | Office | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PPL | Smart Strip Plug Outlets | Standard plug strip/outlet | Office | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PPL | Smart Strip Plug Outlets | Standard plug strip/outlet | Office | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PPL | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Office | Plug Load | Existing | building | 2,913 | 46% | 0.5 | 5 | \$180 | 3% | 2.3 |
| PPL | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Office | Plug Load | New | building | 1,422 | 46% | 0.5 | 5 | \$180 | 3% | 1.5 |
| PPL | Auto Closer on Refrigerator Door | Door w/out Autocloser | Office | Refrigeration | Existing | building | 1,237 | 55% | 0.5 | 8 | \$747 | 40% | 0.6 |
| PPL | Auto Closer on Refrigerator Door | Door w/out Autocloser | Office | Refrigeration | Existing | building | 3,537 | 19% | 0.2 | 8 | \$476 | 40% | 0.6 |
| PPL | Auto Closer on Refrigerator Door | Door w/out Autocloser | Office | Refrigeration | New | building | 1,237 | 55% | 0.5 | 8 | \$747 | 40% | 0.6 |
| PPL | Auto Closer on Refrigerator Door | Door w/out Autocloser | Office | Refrigeration | New | building | 3,537 | 19% | 0.2 | 8 | \$476 | 40% | 0.6 |
| PPL | Door Gasket- Freezer | Door w/out Gasket | Office | Refrigeration | Existing | building | 1,237 | 7.4% | 0.3 | 4 | \$13 | 29% | 6.7 |
| PPL | Door Gasket- Freezer | Door w/out Gasket | Office | Refrigeration | New | building | 1,237 | 7.7% | 0.3 | 4 | \$14 | 29% | 6.7 |
| PPL | Door Gasket- Refrigerator | Door w/out Gasket | Office | Refrigeration | Existing | building | 3,537 | 6.1% | 0.06 | 4 | \$66 | 45% | 0.8 |
| PPL | Door Gasket- Refrigerator | Door w/out Gasket | Office | Refrigeration | New | building | 3,537 | 6.1% | 0.06 | 4 | \$66 | 45% | 0.8 |
| PPL | eCube | Refrigeration unit w/out eCube | Office | Refrigeration | Existing | building | 3,537 | 15% | 0.2 | 15 | \$38 | 57% | 10.2 |
| PPL | eCube | Refrigeration unit w/out eCube | Office | Refrigeration | New | building | 3,537 | 15% | 0.2 | 15 | \$38 | 57% | 10.2 |
| PPL | Efficient compressor motor | Base Refrigeration System - Grocery | Office | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| PPL | Efficient compressor motor | Base Refrigeration System - Grocery | Office | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| PPL | Efficient compressor motor | Base Refrigeration System - Grocery | Office | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| PPL | Efficient compressor motor | Base Refrigeration System - Grocery | Office | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| PPL | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Office | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.6 |
| PPL | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Office | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| PPL | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Office | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| PPL | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Office | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.3 |
| PPL | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Office | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.7 |
| PPL | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Office | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.7 |
| PPL | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Office | Refrigeration | Existing | building | 3,537 | 3.5% | 0.04 | 10 | \$369 | 77% | 0.2 |
| PPL | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Office | Refrigeration | New | building | 3,537 | 3.5% | 0.04 | 10 | \$369 | 77% | 0.2 |
| PPL | Floating head pressure controller | System w/out FHPC | Office | Refrigeration | Existing | building | 1,237 | 5.0% | 0.05 | 15 | \$8,682 | 41% | 0.0 |
| PPL | Floating head pressure controller | System w/out FHPC | Office | Refrigeration | Existing | building | 3,537 | 2.0% | 0.02 | 15 | \$8,682 | 41% | 0.0 |
| PPL | Floating head pressure controller | System w/out FHPC | Office | Refrigeration | New | building | 1,237 | 5.0% | 0.05 | 15 | \$8,682 | 41% | 0.0 |
| PPL | Floating head pressure controller | System w/out FHPC | Office | Refrigeration | New | building | 3,537 | 2.0% | 0.02 | 15 | \$8,682 | 41% | 0.0 |
| PPL | High Efficiency Commercial Freezer | Std. Commercial Freezer | Office | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 86% | 0.3 |
| PPL | High Efficiency Commercial Freezer | Std. Commercial Freezer | Office | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 3.9 |
| PPL | High Efficiency Commercial Freezer | Std. Commercial Freezer | Office | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 3.9 |
| PPL | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Office | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 2% | 0.1 |
| PPL | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Office | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.9 |
| PPL | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Office | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.9 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|--|---------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | High Efficiency Ice Maker | Existing Standard Efficiency Ice Maker in Pennsylvania | Office | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 73% | 0.2 |
| PPL | High Efficiency Ice Maker | Standard code minimum Ice Maker | Office | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| PPL | High Efficiency Ice Maker | Standard code minimum Ice Maker | Office | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| PPL | High Efficiency Ice Making Head | Standard Ice Making Head | Office | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.7 |
| PPL | High Efficiency Ice Making Head | Standard Ice Making Head | Office | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.7 |
| PPL | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Office | Refrigeration | Early | Fixture | 373 | 56% | 0.02 | 8 | \$448 | 47% | 0.2 |
| PPL | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Office | Refrigeration | New | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 47% | 0.3 |
| PPL | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Office | Refrigeration | ROB | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 47% | 0.3 |
| PPL | Quick acting freezer doors | Std. Freezer Doors | Office | Refrigeration | Existing | building | 1,237 | 13% | 0.1 | 10 | \$392 | 56% | 0.3 |
| PPL | Quick acting freezer doors | Std. Freezer Doors | Office | Refrigeration | New | building | 1,237 | 13% | 0.1 | 10 | \$392 | 56% | 0.3 |
| PPL | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Office | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 30% | 0.4 |
| PPL | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Office | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.6 |
| PPL | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Office | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.6 |
| PPL | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 30% | 1.6 |
| PPL | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 2.8 |
| PPL | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 2.8 |
| PPL | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 30% | 1.6 |
| PPL | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 3.8 |
| PPL | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 3.8 |
| PPL | Refrigeration Commissioning | Non-commissioned refrigeration system | Office | Refrigeration | Existing | building | 4,946 | 9.5% | 0.10 | 3 | \$1,086 | 85% | 0.1 |
| PPL | Refrigeration Commissioning | Non-commissioned refrigeration system | Office | Refrigeration | New | building | 4,946 | 9.5% | 0.10 | 3 | \$1,086 | 85% | 0.1 |
| PPL | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Office | Refrigeration | Existing | building | 1,237 | 70% | 0.7 | 4 | \$93 | 22% | 3.4 |
| PPL | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Office | Refrigeration | Existing | building | 3,537 | 8.5% | 0.09 | 4 | \$80 | 22% | 0.9 |
| PPL | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Office | Refrigeration | New | building | 1,237 | 70% | 0.7 | 4 | \$93 | 22% | 3.4 |
| PPL | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Office | Refrigeration | New | building | 3,537 | 8.5% | 0.09 | 4 | \$80 | 22% | 0.9 |
| PPL | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Office | Refrigeration | Existing | building | 1,237 | 12% | 0.1 | 11 | \$117 | 79% | 1.1 |
| PPL | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Office | Refrigeration | New | building | 1,237 | 12% | 0.1 | 11 | \$117 | 79% | 1.1 |
| PPL | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Office | Refrigeration | Existing | building | 3,537 | 8.9% | 0.09 | 11 | \$117 | 79% | 1.5 |
| PPL | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Office | Refrigeration | New | building | 3,537 | 8.9% | 0.09 | 11 | \$117 | 79% | 1.5 |
| PPL | VSD Controlled Compressor | Compressor w/out VSD | Office | Refrigeration | Early | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |
| PPL | VSD Controlled Compressor | Compressor w/out VSD | Office | Refrigeration | New | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |
| PPL | VSD Controlled Compressor | Compressor w/out VSD | Office | Refrigeration | ROB | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |
| PPL | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Office | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$269 | 24% | 0.9 |
| PPL | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Office | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$269 | 24% | 0.8 |
| PPL | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Office | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 24% | 3.0 |
| PPL | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Office | Refrigeration | New | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 24% | 2.9 |
| PPL | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Office | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 24% | 3.0 |
| PPL | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Office | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 24% | 2.9 |
| PPL | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 24% | 2.3 |
| PPL | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 24% | 2.2 |
| PPL | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$151 | 24% | 4.1 |
| PPL | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$151 | 24% | 3.9 |
| PPL | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$151 | 24% | 4.1 |
| PPL | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Office | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$151 | 24% | 3.9 |
| PPL | Adding reflective roof treatment | Std color roof | Office | Space Heating | Existing | building | 12,904 | 7.1% | 0.07 | 6 | \$12,197 | 82% | 0.0 |
| PPL | Adding reflective roof treatment | Std color roof | Office | Space Heating | New | building | 12,904 | 7.1% | 0.07 | 6 | \$12,197 | 82% | 0.0 |
| PPL | Adding window shade film | No shade film | Office | Space Heating | Existing | building | 12,904 | 1.3% | 0.4 | 10 | \$157 | 13% | 1.7 |
| PPL | Adding window shade film | No shade film | Office | Space Heating | New | building | 12,904 | 1.3% | 0.4 | 10 | \$157 | 13% | 1.7 |
| PPL | Adding window shade screen | No shade screen | Office | Space Heating | Existing | building | 12,904 | 1.1% | 0.01 | 10 | \$61 | 13% | 1.0 |
| PPL | Adding window shade screen | No shade screen | Office | Space Heating | New | building | 12,904 | 1.1% | 0.01 | 10 | \$61 | 13% | 1.0 |
| PPL | Automated control system | Manual Controls | Office | Space Heating | Existing | building | 12,904 | 17% | 0.2 | 15 | \$14,127 | 51% | 0.1 |
| PPL | Automated control system | Manual Controls | Office | Space Heating | New | building | 12,904 | 17% | 0.2 | 15 | \$14,127 | 94% | 0.1 |
| PPL | Ceiling Insulations (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Office | Space Heating | Existing | building | 12,904 | 4.9% | 0.05 | 15 | \$16,437 | 71% | 0.0 |
| PPL | Ceiling Insulations (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Office | Space Heating | New | building | 12,904 | 2.3% | 0.02 | 15 | \$15,624 | 94% | 0.0 |
| PPL | Duct Insulation, Add R8 | No Insulation | Office | Space Heating | Existing | building | 12,904 | 1.4% | 0.04 | 15 | \$103 | 20% | 1.2 |
| PPL | Duct Insulation, Add R8 | No Insulation | Office | Space Heating | New | building | 12,904 | 1.4% | 0.04 | 15 | \$103 | 10% | 1.2 |
| PPL | Efficient Unit Heating System | Existing Unit Heaters in PA | Office | Space Heating | Early | heater | 10,601 | 23% | 0.02 | 15 | \$3,289 | 83% | 0.4 |
| PPL | Efficient Unit Heating System | Std. Unit Heater | Office | Space Heating | New | heater | 9,408 | 13% | 0.01 | 15 | \$1,985 | 83% | 0.3 |
| PPL | Efficient Unit Heating System | Std. Unit Heater | Office | Space Heating | ROB | heater | 9,408 | 13% | 0.01 | 15 | \$1,985 | 83% | 0.3 |
| PPL | Facility Commissioning | No Facility Commissioning | Office | Space Heating | New | building | 12,904 | 16% | 0.2 | 10 | \$46,875 | 89% | 0.0 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Office | Space Heating | Existing | building | 12,904 | 7.1% | 0.07 | 15 | \$57,238 | 25% | 0.0 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Office | Space Heating | New | building | 12,904 | 7.1% | 0.07 | 15 | \$57,238 | 35% | 0.0 |
| PPL | Hi Eff HVAC System Design | No HVAC Design | Office | Space Heating | New | building | 12,904 | 0.8% | 0.01 | 10 | \$1,062 | 51% | 0.0 |
| PPL | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Office | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$77 | 32% | 1.0 |
| PPL | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Office | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$77 | 32% | 1.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|---|---------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Office | Space Heating | Existing | building | 12,904 | 2.8% | 0.03 | 10 | \$7,735 | 81% | 0.0 |
| PPL | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Office | Space Heating | New | building | 12,904 | 2.8% | 0.03 | 10 | \$7,735 | 81% | 0.0 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Office | Space Heating | Existing | building | 12,904 | 3.6% | 0.04 | 11 | \$286 | 49% | 0.8 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Office | Space Heating | New | building | 12,904 | 3.1% | 0.03 | 11 | \$146 | 49% | 1.3 |
| PPL | Re-Commissioning (Existing Construction) | No Re-Commissioning | Office | Space Heating | Existing | building | 12,904 | 16% | 0.2 | 5 | \$7,777 | 86% | 0.1 |
| PPL | VFD on Cooling Tower Fan | Motor w/out VFD | Office | Space Heating | Early | motor | 16,452 | 70% | 3.4 | 15 | \$2,843 | 88% | 3.1 |
| PPL | VFD on Cooling Tower Fan | Motor w/out VFD | Office | Space Heating | New | motor | 16,144 | 72% | 3.3 | 15 | \$2,843 | 88% | 3.1 |
| PPL | VFD on Cooling Tower Fan | Motor w/out VFD | Office | Space Heating | ROB | motor | 16,144 | 72% | 3.3 | 15 | \$2,843 | 88% | 3.1 |
| PPL | Wall Insualtions (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Office | Space Heating | Existing | building | 12,904 | 15% | 0.2 | 15 | \$5,028 | 26% | 0.2 |
| PPL | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Office | Space Heating | New | building | 12,904 | 0.5% | 0.01 | 15 | \$3,857 | 94% | 0.0 |
| PPL | Green LED Traffic Light | Green Incandescent Traffic Light | Office | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 0% | 1.2 |
| PPL | Green LED Traffic Light | Green Incandescent Traffic Light | Office | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| PPL | Green LED Traffic Light | Green Incandescent Traffic Light | Office | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| PPL | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Office | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 0% | 3.0 |
| PPL | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Office | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| PPL | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Office | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| PPL | Induction Street Lighting | One 100W HPS Street Light Fixture | Office | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 0% | 0.3 |
| PPL | Induction Street Lighting | One 100W HPS Street Light Fixture | Office | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.7 |
| PPL | Induction Street Lighting | One 100W HPS Street Light Fixture | Office | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.7 |
| PPL | LED Street Lighting | One 100W HPS Street Light | Office | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 0% | 0.2 |
| PPL | LED Street Lighting | One 100W HPS Street Light | Office | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| PPL | LED Street Lighting | One 100W HPS Street Light | Office | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| PPL | Red LED Traffic Light | One Red Incandescent Traffic Light | Office | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 0% | 1.6 |
| PPL | Red LED Traffic Light | One Red Incandescent Traffic Light | Office | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| PPL | Red LED Traffic Light | One Red Incandescent Traffic Light | Office | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| PPL | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Office | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 0% | 0.1 |
| PPL | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Office | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| PPL | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Office | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| PPL | Demand controlled Circulating Systems | Constant circulation system | Office | Water Heating | Existing | building | 859 | 20% | 0.2 | 15 | \$156 | 59% | 1.5 |
| PPL | Demand controlled Circulating Systems | Constant circulation system | Office | Water Heating | New | building | 859 | 20% | 0.2 | 15 | \$156 | 59% | 1.5 |
| PPL | Drainwater Heat Recovery Water Heater | No heat recovery | Office | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.9 |
| PPL | Drainwater Heat Recovery Water Heater | No heat recovery | Office | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.9 |
| PPL | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Office | Water Heating | Existing | building | 859 | 5.9% | 0.06 | 12 | \$70 | 85% | 0.8 |
| PPL | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Office | Water Heating | New | building | 859 | 5.9% | 0.06 | 12 | \$20 | 85% | 3.0 |
| PPL | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Office | Water Heating | Early | water heater | 9,692 | 66% | 1.1 | 10 | \$2,045 | 68% | 1.5 |
| PPL | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Office | Water Heating | Early | water heater | 9,692 | 66% | 1.1 | 10 | \$2,045 | 68% | 1.5 |
| PPL | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Office | Water Heating | New | water heater | 9,692 | 66% | 1.1 | 10 | \$1,187 | 68% | 2.6 |
| PPL | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Office | Water Heating | New | water heater | 9,692 | 66% | 1.1 | 10 | \$1,187 | 68% | 2.6 |
| PPL | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Office | Water Heating | ROB | water heater | 9,423 | 65% | 1.1 | 10 | \$1,187 | 68% | 2.5 |
| PPL | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Office | Water Heating | ROB | water heater | 9,423 | 65% | 1.1 | 10 | \$1,187 | 68% | 2.5 |
| PPL | Heat Recovery Unit | Base Water Heating | Office | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.6 |
| PPL | Heat Recovery Unit | Base Water Heating | Office | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.6 |
| PPL | Heat Trap | No Heat Trap | Office | Water Heating | Existing | building | 859 | 22% | 0.2 | 11 | \$5.9 | 50% | 35.7 |
| PPL | Heat Trap | No Heat Trap | Office | Water Heating | New | building | 859 | 22% | 0.2 | 11 | \$0.9 | 50% | 239.9 |
| PPL | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Office | Water Heating | Early | water heater | 9,692 | 5.9% | 0.1 | 15 | \$865 | 79% | 0.5 |
| PPL | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Office | Water Heating | Early | water heater | 9,692 | 5.9% | 0.1 | 15 | \$865 | 79% | 0.5 |
| PPL | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Office | Water Heating | New | water heater | 9,423 | 3.2% | 0.05 | 15 | \$307 | 79% | 0.7 |
| PPL | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Office | Water Heating | New | water heater | 9,423 | 3.2% | 0.05 | 15 | \$307 | 79% | 0.7 |
| PPL | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Office | Water Heating | ROB | water heater | 9,423 | 3.2% | 0.05 | 15 | \$307 | 79% | 0.7 |
| PPL | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Office | Water Heating | ROB | water heater | 9,423 | 3.2% | 0.05 | 15 | \$307 | 79% | 0.7 |
| PPL | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Office | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$646 | 81% | 28.2 |
| PPL | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Office | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 20.4 |
| PPL | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Office | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 20.4 |
| PPL | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Office | Water Heating | Existing | building | 859 | 3.9% | 0.04 | 13 | \$5.1 | 68% | 8.2 |
| PPL | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Office | Water Heating | New | building | 859 | 3.9% | 0.04 | 13 | \$5.1 | 0% | 8.2 |
| PPL | Hot Water Circulation Pump Time-Clock | Constant circulation system | Office | Water Heating | Existing | building | 859 | 5.3% | 0.05 | 10 | \$3.5 | 72% | 13.3 |
| PPL | Hot Water Circulation Pump Time-Clock | Constant circulation system | Office | Water Heating | New | building | 859 | 5.3% | 0.05 | 10 | \$3.5 | 72% | 13.3 |
| PPL | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Office | Water Heating | Existing | building | 859 | 1.1% | 0.01 | 7 | \$22 | 78% | 0.3 |
| PPL | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Office | Water Heating | New | building | 859 | 0.9% | 0.01 | 7 | \$0.5 | 78% | 11.8 |
| PPL | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Office | Water Heating | Existing | building | 859 | 13% | 0.1 | 5 | \$300 | 0% | 0.2 |
| PPL | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Office | Water Heating | New | building | 859 | 13% | 0.1 | 5 | \$194 | 0% | 0.3 |
| PPL | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Office | Water Heating | Existing | building | 859 | 6.5% | 0.07 | 9 | \$25 | 2% | 2.1 |
| PPL | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Office | Water Heating | New | building | 859 | 6.5% | 0.07 | 9 | \$6.0 | 2% | 8.7 |
| PPL | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Office | Water Heating | Early | water heater | 9,692 | 52% | 0.4 | 15 | \$7,080 | 32% | 0.4 |
| PPL | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Office | Water Heating | New | water heater | 9,423 | 51% | 0.4 | 15 | \$6,222 | 32% | 0.5 |
| PPL | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Office | Water Heating | ROB | water heater | 9,423 | 51% | 0.4 | 15 | \$6,222 | 32% | 0.5 |
| PPL | Ultrasonic Faucet Control | Manual Faucet Control | Office | Water Heating | Existing | building | 859 | 3.0% | 0.03 | 10 | \$149 | 77% | 0.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|--|--------------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Ultrasonic Faucet Control | Manual Faucet Control | Office | Water Heating | New | building | 859 | 3.1% | 0.03 | 10 | \$149 | 77% | 0.2 |
| PPL | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Office | Water Heating | Existing | building | 859 | 2.2% | 0.02 | 4 | \$28 | 83% | 0.3 |
| PPL | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Office | Water Heating | New | building | 859 | 2.3% | 0.02 | 4 | \$28 | 83% | 0.3 |
| PPL | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Other Inst'l | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.1 |
| PPL | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Other Inst'l | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.1 |
| PPL | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Other Inst'l | Cooking | Early | steamer | 51 | 46% | 0.00 | 12 | \$5,103 | 81% | 0.0 |
| PPL | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Other Inst'l | Cooking | New | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| PPL | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Other Inst'l | Cooking | ROB | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| PPL | Electric combination oven (Energy Star) | Standard Oven | Other Inst'l | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.9 |
| PPL | Electric combination oven (Energy Star) | Standard Oven | Other Inst'l | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.9 |
| PPL | Electric Convection Oven | Conventional convection oven w/ 65% efficiency | Other Inst'l | Cooking | Early | oven | 8,641 | 37% | 0.6 | 12 | \$4,169 | 81% | 0.4 |
| PPL | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Other Inst'l | Cooking | New | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.7 |
| PPL | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Other Inst'l | Cooking | ROB | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.7 |
| PPL | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Other Inst'l | Cooking | Early | fryer | 6,105 | 23% | 0.3 | 12 | \$9,291 | 86% | 0.1 |
| PPL | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Other Inst'l | Cooking | New | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| PPL | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Other Inst'l | Cooking | ROB | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| PPL | High Efficiency Griddle (ENERGY STAR) | Efficiency code minimum griddle (70% eff) | Other Inst'l | Cooking | Early | griddle | 11,317 | 65% | 1.4 | 12 | \$4,992 | 86% | 0.8 |
| PPL | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Other Inst'l | Cooking | New | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.2 |
| PPL | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Other Inst'l | Cooking | ROB | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.2 |
| PPL | High Efficiency Induction Cooking | Standard Cooking | Other Inst'l | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| PPL | High Efficiency Induction Cooking | Standard Cooking | Other Inst'l | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| PPL | Adding reflective roof treatment | Std color roof | Other Inst'l | Cooling Central | Existing | building | 1,732 | 7.0% | 0.07 | 6 | \$12,711 | 82% | 0.0 |
| PPL | Adding reflective roof treatment | Std color roof | Other Inst'l | Cooling Central | New | building | 1,732 | 7.0% | 0.07 | 6 | \$12,711 | 82% | 0.0 |
| PPL | Adding window shade film | No shade film | Other Inst'l | Cooling Central | Existing | building | 1,732 | 1.3% | 0.4 | 10 | \$21 | 12% | 9.7 |
| PPL | Adding window shade film | No shade film | Other Inst'l | Cooling Central | New | building | 1,732 | 1.3% | 0.4 | 10 | \$21 | 13% | 9.7 |
| PPL | Adding window shade screen | No shade screen | Other Inst'l | Cooling Central | Existing | building | 1,732 | 1.1% | 0.01 | 10 | \$8.2 | 13% | 1.5 |
| PPL | Adding window shade screen | No shade screen | Other Inst'l | Cooling Central | New | building | 1,732 | 1.1% | 0.01 | 10 | \$8.2 | 13% | 1.5 |
| PPL | Automated control system | Manual Controls | Other Inst'l | Cooling Central | Existing | building | 1,732 | 17% | 0.2 | 15 | \$1,896 | 51% | 0.1 |
| PPL | Automated control system | Manual Controls | Other Inst'l | Cooling Central | New | building | 1,732 | 17% | 0.2 | 15 | \$1,896 | 94% | 0.1 |
| PPL | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Other Inst'l | Cooling Central | Existing | building | 1,732 | 7.2% | 0.07 | 15 | \$17,130 | 71% | 0.0 |
| PPL | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Other Inst'l | Cooling Central | New | building | 1,732 | 2.4% | 0.02 | 15 | \$16,283 | 94% | 0.0 |
| PPL | Chiller Tuneup/Diagnostics | No tuneup | Other Inst'l | Cooling Central | Existing | building | 1,732 | 8.0% | 0.08 | 10 | \$4,423 | 59% | 0.0 |
| PPL | Chiller Tuneup/Diagnostics | No tuneup | Other Inst'l | Cooling Central | New | building | 1,732 | 8.0% | 0.08 | 10 | \$4,423 | 59% | 0.0 |
| PPL | Duct Insulation, Add R8 | No Insulation | Other Inst'l | Cooling Central | Existing | building | 1,732 | 1.4% | 0.04 | 15 | \$14 | 20% | 3.0 |
| PPL | Duct Insulation, Add R8 | No Insulation | Other Inst'l | Cooling Central | New | building | 1,732 | 1.4% | 0.04 | 15 | \$14 | 10% | 3.0 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Other Inst'l | Cooling Central | Existing | building | 1,732 | 7.0% | 0.07 | 15 | \$7,683 | 25% | 0.0 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Other Inst'l | Cooling Central | New | building | 1,732 | 7.0% | 0.07 | 15 | \$7,683 | 35% | 0.0 |
| PPL | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | Early | ton | 4,365 | 24% | 0.4 | 15 | \$108,550 | 88% | 0.0 |
| PPL | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | New | ton | 3,568 | 6.7% | 0.08 | 15 | \$12,927 | 88% | 0.0 |
| PPL | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | ROB | ton | 3,568 | 6.7% | 0.08 | 15 | \$12,927 | 88% | 0.0 |
| PPL | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | Early | ton | 6,522 | 23% | 0.5 | 15 | \$140,105 | 88% | 0.0 |
| PPL | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | New | ton | 5,247 | 4.9% | 0.09 | 15 | \$9,336 | 88% | 0.0 |
| PPL | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | ROB | ton | 5,247 | 4.9% | 0.09 | 15 | \$9,336 | 88% | 0.0 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | Early | ton | 53,390 | 26% | 4.8 | 15 | \$105,354 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | New | ton | 46,518 | 15% | 2.4 | 15 | \$30,530 | 88% | 0.2 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | ROB | ton | 46,518 | 15% | 2.4 | 15 | \$30,530 | 88% | 0.2 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | Early | ton | 79,963 | 23% | 6.4 | 15 | \$154,107 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | New | ton | 73,456 | 16% | 4.1 | 15 | \$27,646 | 88% | 0.3 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | ROB | ton | 79,963 | 23% | 6.4 | 15 | \$27,646 | 88% | 0.5 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | Early | ton | 132,804 | 23% | 10.4 | 15 | \$302,924 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | New | ton | 120,197 | 14% | 6.0 | 15 | \$115,432 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | ROB | ton | 132,804 | 23% | 10.4 | 15 | \$115,432 | 88% | 0.2 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | Early | ton | 159,365 | 23% | 12.5 | 15 | \$350,154 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | New | ton | 144,236 | 14% | 7.3 | 15 | \$120,406 | 88% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|---|--------------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | ROB | ton | 159,365 | 23% | 12.5 | 15 | \$120,406 | 88% | 0.2 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | Early | ton | 35,325 | 29% | 3.6 | 15 | \$83,632 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | New | ton | 27,429 | 8.9% | 0.9 | 15 | \$40,211 | 88% | 0.0 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | ROB | ton | 35,325 | 29% | 3.6 | 15 | \$40,211 | 88% | 0.2 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | Early | ton | 60,696 | 35% | 7.3 | 15 | \$132,173 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | New | ton | 45,269 | 13% | 2.0 | 15 | \$39,556 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | ROB | ton | 45,269 | 13% | 2.0 | 15 | \$39,556 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | Early | ton | 101,337 | 39% | 13.8 | 15 | \$187,029 | 88% | 0.2 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | New | ton | 72,252 | 15% | 3.7 | 15 | \$33,554 | 88% | 0.2 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | ROB | ton | 101,337 | 39% | 13.8 | 15 | \$33,554 | 88% | 0.9 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | Early | ton | 17,733 | 30% | 1.8 | 15 | \$32,398 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | New | ton | 14,049 | 11% | 0.5 | 15 | \$7,188 | 88% | 0.2 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Other Inst'l | Cooling Central | ROB | ton | 17,733 | 30% | 1.8 | 15 | \$7,188 | 88% | 0.6 |
| PPL | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Other Inst'l | Cooling Central | Existing | building | 1,732 | 1.0% | 0.01 | 10 | \$41,718 | 81% | 0.0 |
| PPL | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Other Inst'l | Cooling Central | New | building | 1,732 | 1.1% | 0.01 | 10 | \$41,718 | 81% | 0.0 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Other Inst'l | Cooling Central | Existing | building | 1,732 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.1 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Other Inst'l | Cooling Central | New | building | 1,732 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.1 |
| PPL | Re-Commissioning (Existing Construction) | No Re-Commissioning | Other Inst'l | Cooling Central | Existing | building | 1,732 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |
| PPL | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Other Inst'l | Cooling Central | Existing | building | 1,732 | 13% | 0.1 | 15 | \$3,285 | 26% | 0.1 |
| PPL | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Other Inst'l | Cooling Central | New | building | 1,732 | 0.3% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| PPL | <65k BTU/hr 14 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Other Inst'l | Cooling Unitary | Early | ton | 2,499 | 16% | 0.2 | 15 | \$1,545 | 29% | 0.2 |
| PPL | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Other Inst'l | Cooling Unitary | New | ton | 2,264 | 7.1% | 0.08 | 15 | \$339 | 29% | 0.4 |
| PPL | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Other Inst'l | Cooling Unitary | ROB | ton | 2,264 | 7.1% | 0.08 | 15 | \$339 | 29% | 0.4 |
| PPL | <65k BTU/hr 15 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Other Inst'l | Cooling Unitary | Early | ton | 2,499 | 22% | 0.2 | 15 | \$1,821 | 30% | 0.2 |
| PPL | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Other Inst'l | Cooling Unitary | New | ton | 2,264 | 13% | 0.3 | 15 | \$714 | 30% | 0.5 |
| PPL | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Other Inst'l | Cooling Unitary | ROB | ton | 2,264 | 13% | 0.3 | 15 | \$714 | 30% | 0.5 |
| PPL | <65k BTU/hr 16 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Other Inst'l | Cooling Unitary | Early | ton | 2,499 | 26% | 0.3 | 15 | \$2,098 | 31% | 0.3 |
| PPL | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Other Inst'l | Cooling Unitary | New | ton | 2,264 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.4 |
| PPL | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Other Inst'l | Cooling Unitary | ROB | ton | 2,264 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.4 |
| PPL | >760k min 10.2 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Other Inst'l | Cooling Unitary | Early | ton | 63,236 | 3.7% | 1.2 | 15 | \$68,066 | 56% | 0.0 |
| PPL | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Other Inst'l | Cooling Unitary | New | ton | 64,047 | 4.9% | 1.6 | 15 | \$6,231 | 56% | 0.5 |
| PPL | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Other Inst'l | Cooling Unitary | ROB | ton | 64,047 | 4.9% | 1.6 | 15 | \$6,231 | 56% | 0.5 |
| PPL | 135-240k min 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Other Inst'l | Cooling Unitary | Early | ton | 15,148 | 18% | 1.4 | 15 | \$18,135 | 79% | 0.1 |
| PPL | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Other Inst'l | Cooling Unitary | New | ton | 13,779 | 10.0% | 0.7 | 15 | \$1,948 | 79% | 0.6 |
| PPL | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Other Inst'l | Cooling Unitary | ROB | ton | 13,779 | 10.0% | 0.7 | 15 | \$1,948 | 79% | 0.6 |
| PPL | 240k-760k min 11 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Other Inst'l | Cooling Unitary | Early | ton | 41,603 | 9.0% | 1.9 | 15 | \$44,809 | 66% | 0.1 |
| PPL | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Other Inst'l | Cooling Unitary | New | ton | 41,706 | 9.3% | 2.0 | 15 | \$4,813 | 66% | 0.7 |
| PPL | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Other Inst'l | Cooling Unitary | ROB | ton | 41,706 | 9.3% | 2.0 | 15 | \$4,813 | 66% | 0.7 |
| PPL | 65k-135k BTU/hr 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Other Inst'l | Cooling Unitary | Early | ton | 9,172 | 17% | 0.8 | 15 | \$10,946 | 86% | 0.1 |
| PPL | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Other Inst'l | Cooling Unitary | New | ton | 8,174 | 6.7% | 0.3 | 15 | \$1,392 | 86% | 0.4 |
| PPL | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Other Inst'l | Cooling Unitary | ROB | ton | 8,174 | 6.7% | 0.3 | 15 | \$1,392 | 86% | 0.4 |
| PPL | Adding reflective roof treatment | Std color roof | Other Inst'l | Cooling Unitary | Existing | building | 20,661 | 7.1% | 0.07 | 6 | \$12,711 | 82% | 0.0 |
| PPL | Adding reflective roof treatment | Std color roof | Other Inst'l | Cooling Unitary | New | building | 20,661 | 7.0% | 0.07 | 6 | \$12,711 | 82% | 0.0 |
| PPL | Adding window shade film | No shade film | Other Inst'l | Cooling Unitary | Existing | building | 20,661 | 1.3% | 0.4 | 10 | \$251 | 12% | 1.2 |
| PPL | Adding window shade film | No shade film | Other Inst'l | Cooling Unitary | New | building | 20,661 | 1.3% | 0.4 | 10 | \$251 | 13% | 1.2 |
| PPL | Adding window shade screen | No shade screen | Other Inst'l | Cooling Unitary | Existing | building | 20,661 | 1.1% | 0.01 | 10 | \$97 | 12% | 0.9 |
| PPL | Adding window shade screen | No shade screen | Other Inst'l | Cooling Unitary | New | building | 20,661 | 1.1% | 0.01 | 10 | \$97 | 13% | 0.9 |
| PPL | Automated control system | Manual Controls | Other Inst'l | Cooling Unitary | Existing | building | 20,661 | 17% | 0.2 | 15 | \$22,618 | 51% | 0.1 |
| PPL | Automated control system | Manual Controls | Other Inst'l | Cooling Unitary | New | building | 20,661 | 17% | 0.2 | 15 | \$22,618 | 94% | 0.1 |
| PPL | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Other Inst'l | Cooling Unitary | Existing | building | 20,661 | 7.2% | 0.07 | 15 | \$17,130 | 71% | 0.1 |
| PPL | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Other Inst'l | Cooling Unitary | New | building | 20,661 | 2.4% | 0.02 | 15 | \$16,283 | 94% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|--|--------------|-----------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Duct Insulation, Add R8 | No Insulation | Other Inst'l | Cooling Unitary | Existing | building | 20,661 | 1.4% | 0.04 | 15 | \$164 | 20% | 1.1 |
| PPL | Duct Insulation, Add R8 | No Insulation | Other Inst'l | Cooling Unitary | New | building | 20,661 | 1.4% | 0.04 | 15 | \$164 | 10% | 1.1 |
| PPL | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Other Inst'l | Cooling Unitary | Existing | building | 11,291 | 13% | 0.1 | 1 | \$108 | 73% | 0.8 |
| PPL | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Other Inst'l | Cooling Unitary | New | building | 11,291 | 13% | 0.1 | 1 | \$108 | 73% | 0.8 |
| PPL | ECM Motors for split systems | Std Shaded Pole Motor | Other Inst'l | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.6 |
| PPL | ECM Motors for split systems | Std Shaded Pole Motor | Other Inst'l | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.6 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Other Inst'l | Cooling Unitary | Existing | building | 20,661 | 7.1% | 0.07 | 15 | \$91,646 | 25% | 0.0 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Other Inst'l | Cooling Unitary | New | building | 20,661 | 7.1% | 0.07 | 15 | \$91,646 | 35% | 0.0 |
| PPL | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Other Inst'l | Cooling Unitary | Existing | building | 20,661 | 5.0% | 0.05 | 5 | \$225 | 59% | 1.0 |
| PPL | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Other Inst'l | Cooling Unitary | Existing | building | 20,661 | 1.1% | 0.01 | 10 | \$44,835 | 86% | 0.0 |
| PPL | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Other Inst'l | Cooling Unitary | New | building | 20,661 | 1.1% | 0.01 | 10 | \$44,835 | 86% | 0.0 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) | Other Inst'l | Cooling Unitary | Existing | building | 20,661 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.6 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Other Inst'l | Cooling Unitary | New | building | 20,661 | 1.7% | 0.02 | 11 | \$146 | 49% | 1.0 |
| PPL | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Other Inst'l | Cooling Unitary | Early | unit | 180 | 19% | 0.08 | 15 | \$849 | 85% | 0.1 |
| PPL | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Other Inst'l | Cooling Unitary | New | unit | 182 | 20% | 0.09 | 15 | \$356 | 85% | 0.2 |
| PPL | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Other Inst'l | Cooling Unitary | ROB | unit | 182 | 20% | 0.09 | 15 | \$356 | 85% | 0.2 |
| PPL | Re-Commissioning (Existing Construction) | No Re-Commissioning | Other Inst'l | Cooling Unitary | Existing | building | 20,661 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.1 |
| PPL | Room AC (w/ louvered sides) | Existing efficiency Room AC in Pennsylvania (2000 Federal Standards) | Other Inst'l | Cooling Unitary | Early | ton | 1,180 | 13% | 0.05 | 9 | \$348 | 82% | 0.2 |
| PPL | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Other Inst'l | Cooling Unitary | New | ton | 1,070 | 4.5% | 0.02 | 9 | \$17 | 82% | 1.4 |
| PPL | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Other Inst'l | Cooling Unitary | ROB | ton | 1,070 | 4.5% | 0.02 | 9 | \$17 | 82% | 1.4 |
| PPL | Wall Insualtions (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Other Inst'l | Cooling Unitary | Existing | building | 20,661 | 13% | 0.1 | 15 | \$3,285 | 26% | 0.5 |
| PPL | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Other Inst'l | Cooling Unitary | New | building | 20,661 | 0.3% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| PPL | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Other Inst'l | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 1.1 |
| PPL | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Other Inst'l | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.5 |
| PPL | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Other Inst'l | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.5 |
| PPL | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Other Inst'l | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 0% | 0.2 |
| PPL | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Other Inst'l | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| PPL | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Other Inst'l | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| PPL | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Other Inst'l | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 75% | 0.3 |
| PPL | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Other Inst'l | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 75% | 0.2 |
| PPL | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Other Inst'l | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.8 |
| PPL | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Other Inst'l | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.1 |
| PPL | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Other Inst'l | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.8 |
| PPL | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Other Inst'l | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.1 |
| PPL | Photocell Controls (Outdoor) | Lighting w/ No Controls | Other Inst'l | Ext. Lighting | Existing | building | 635 | 28% | 0.3 | 8 | \$5,088 | 88% | 0.0 |
| PPL | Photocell Controls (Outdoor) | Lighting w/ No Controls | Other Inst'l | Ext. Lighting | New | building | 635 | 28% | 0.3 | 8 | \$5,088 | 0% | 0.0 |
| PPL | Adding reflective roof treatment | Std color roof | Other Inst'l | Heat Pump | Existing | building | 1,908 | 6.9% | 0.07 | 6 | \$12,711 | 82% | 0.0 |
| PPL | Adding reflective roof treatment | Std color roof | Other Inst'l | Heat Pump | New | building | 1,908 | 6.9% | 0.07 | 6 | \$12,711 | 82% | 0.0 |
| PPL | Adding window shade film | No shade film | Other Inst'l | Heat Pump | Existing | building | 1,908 | 3.9% | 0.4 | 10 | \$23 | 12% | 9.7 |
| PPL | Adding window shade film | No shade film | Other Inst'l | Heat Pump | New | building | 1,908 | 3.9% | 0.4 | 10 | \$23 | 12% | 9.7 |
| PPL | Adding window shade screen | No shade screen | Other Inst'l | Heat Pump | Existing | building | 1,908 | 0.3% | 0.01 | 10 | \$9.0 | 12% | 1.4 |
| PPL | Adding window shade screen | No shade screen | Other Inst'l | Heat Pump | New | building | 1,908 | 0.3% | 0.01 | 10 | \$9.0 | 12% | 1.4 |
| PPL | Automated control system | Manual Controls | Other Inst'l | Heat Pump | Existing | building | 1,908 | 17% | 0.2 | 15 | \$2,089 | 51% | 0.1 |
| PPL | Automated control system | Manual Controls | Other Inst'l | Heat Pump | New | building | 1,908 | 17% | 0.2 | 15 | \$2,089 | 94% | 0.1 |
| PPL | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Other Inst'l | Heat Pump | Existing | building | 1,908 | 7.2% | 0.07 | 15 | \$17,130 | 71% | 0.0 |
| PPL | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Other Inst'l | Heat Pump | New | building | 1,908 | 2.4% | 0.02 | 15 | \$16,283 | 94% | 0.0 |
| PPL | Duct Insulation, Add R8 | No Insulation | Other Inst'l | Heat Pump | Existing | building | 1,908 | 4.0% | 0.04 | 15 | \$15 | 12% | 4.6 |
| PPL | Duct Insulation, Add R8 | No Insulation | Other Inst'l | Heat Pump | New | building | 1,908 | 4.0% | 0.04 | 15 | \$15 | 6% | 4.6 |
| PPL | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Other Inst'l | Heat Pump | Early | heat pump | 2,301 | 12% | 0.02 | 15 | \$4,070 | 83% | 0.0 |
| PPL | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Other Inst'l | Heat Pump | New | heat pump | 2,195 | 7.8% | 0.01 | 15 | \$1,097 | 83% | 0.1 |
| PPL | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Other Inst'l | Heat Pump | ROB | heat pump | 2,195 | 7.8% | 0.01 | 15 | \$1,097 | 83% | 0.1 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Other Inst'l | Heat Pump | Existing | building | 1,908 | 7.0% | 0.07 | 15 | \$8,463 | 25% | 0.0 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Other Inst'l | Heat Pump | New | building | 1,908 | 7.0% | 0.07 | 15 | \$8,463 | 35% | 0.0 |
| PPL | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Other Inst'l | Heat Pump | Early | heat pump | 23,700 | 16% | 0.3 | 15 | \$91,117 | 19% | 0.0 |
| PPL | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Other Inst'l | Heat Pump | New | heat pump | 22,847 | 13% | 0.3 | 15 | \$33,927 | 19% | 0.1 |
| PPL | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Other Inst'l | Heat Pump | ROB | heat pump | 22,847 | 13% | 0.3 | 15 | \$33,927 | 19% | 0.1 |
| PPL | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Other Inst'l | Heat Pump | Early | heat pump | 23,700 | 16% | 0.3 | 15 | \$58,356 | 19% | 0.0 |
| PPL | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Other Inst'l | Heat Pump | New | heat pump | 22,847 | 13% | 0.3 | 15 | \$1,167 | 19% | 1.5 |
| PPL | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Other Inst'l | Heat Pump | ROB | heat pump | 22,847 | 13% | 0.3 | 15 | \$1,167 | 19% | 1.5 |
| PPL | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Other Inst'l | Heat Pump | Early | heat pump | 6,136 | 16% | 0.09 | 12 | \$4,298 | 81% | 0.1 |
| PPL | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Other Inst'l | Heat Pump | Early | heat pump | 6,136 | 25% | 0.1 | 12 | \$5,883 | 81% | 0.1 |
| PPL | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Other Inst'l | Heat Pump | New | heat pump | 5,854 | 12% | 0.06 | 12 | \$852 | 81% | 0.4 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|--|--------------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Other Inst'l | Heat Pump | New | heat pump | 5,854 | 22% | 0.1 | 12 | \$2,437 | 81% | 0.3 |
| PPL | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Other Inst'l | Heat Pump | ROB | heat pump | 5,854 | 12% | 0.06 | 12 | \$852 | 81% | 0.4 |
| PPL | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Other Inst'l | Heat Pump | ROB | heat pump | 5,854 | 22% | 0.1 | 12 | \$2,437 | 81% | 0.3 |
| PPL | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Other Inst'l | Heat Pump | Existing | building | 1,908 | 1.0% | 0.01 | 10 | \$39,918 | 81% | 0.0 |
| PPL | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Other Inst'l | Heat Pump | New | building | 1,908 | 1.0% | 0.01 | 10 | \$39,918 | 81% | 0.0 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Other Inst'l | Heat Pump | Existing | building | 1,908 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.1 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Other Inst'l | Heat Pump | New | building | 1,908 | 2.1% | 0.02 | 11 | \$146 | 49% | 0.2 |
| PPL | Re-Commissioning (Existing Construction) | No Re-Commissioning | Other Inst'l | Heat Pump | Existing | building | 1,908 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |
| PPL | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Other Inst'l | Heat Pump | Existing | building | 1,908 | 13% | 0.1 | 15 | \$3,285 | 26% | 0.1 |
| PPL | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Other Inst'l | Heat Pump | New | building | 1,908 | 0.3% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| PPL | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Other Inst'l | Heat Pump | Early | heat pump | 9,853 | 35% | 0.3 | 15 | \$35,347 | 28% | 0.1 |
| PPL | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Other Inst'l | Heat Pump | New | heat pump | 9,368 | 31% | 0.3 | 15 | \$15,739 | 28% | 0.1 |
| PPL | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Other Inst'l | Heat Pump | ROB | heat pump | 9,368 | 31% | 0.3 | 15 | \$15,739 | 28% | 0.1 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 299 | 9.6% | 0.01 | 13 | \$875 | 39% | 0.0 |
| PPL | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Other Inst'l | High Bay Lighting | Early | Fixture | 299 | 9.5% | 0.01 | 13 | \$875 | 28% | 0.0 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 461 | 41% | 0.04 | 13 | \$875 | 36% | 0.1 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 227 | 9.6% | 0.00 | 13 | \$372 | 39% | 0.0 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 211 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 350 | 41% | 0.03 | 13 | \$397 | 36% | 0.2 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 299 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.0 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 278 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 461 | 41% | 0.04 | 13 | \$397 | 36% | 0.3 |
| PPL | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 580 | 19% | 0.02 | 13 | \$877 | 38% | 0.1 |
| PPL | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Other Inst'l | High Bay Lighting | Early | Fixture | 587 | 20% | 0.02 | 13 | \$877 | 38% | 0.1 |
| PPL | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 1,708 | 73% | 0.2 | 13 | \$877 | 38% | 0.9 |
| PPL | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 441 | 19% | 0.02 | 13 | \$372 | 38% | 0.1 |
| PPL | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 1,298 | 73% | 0.2 | 13 | \$383 | 38% | 1.5 |
| PPL | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 580 | 19% | 0.02 | 13 | \$372 | 38% | 0.2 |
| PPL | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 1,708 | 73% | 0.2 | 13 | \$383 | 38% | 2.0 |
| PPL | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 580 | 25% | 0.03 | 13 | \$580 | 29% | 0.2 |
| PPL | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Other Inst'l | High Bay Lighting | Early | Fixture | 569 | 23% | 0.03 | 13 | \$580 | 28% | 0.1 |
| PPL | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 1,708 | 74% | 0.2 | 13 | \$580 | 36% | 1.4 |
| PPL | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 441 | 25% | 0.02 | 13 | \$75 | 29% | 0.9 |
| PPL | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 1,298 | 74% | 0.2 | 13 | \$86 | 36% | 7.0 |
| PPL | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 580 | 25% | 0.03 | 13 | \$75 | 29% | 1.2 |
| PPL | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 1,708 | 74% | 0.2 | 13 | \$86 | 36% | 9.3 |
| PPL | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Other Inst'l | High Bay Lighting | Early | Fixture | 151 | 0.2% | 0.00 | 13 | \$861 | 38% | 0.0 |
| PPL | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 326 | 54% | 0.03 | 13 | \$861 | 38% | 0.1 |
| PPL | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 248 | 54% | 0.03 | 13 | \$382 | 38% | 0.2 |
| PPL | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 326 | 54% | 0.03 | 13 | \$382 | 38% | 0.3 |
| PPL | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 739 | 18% | 0.03 | 13 | \$512 | 25% | 0.2 |
| PPL | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Other Inst'l | High Bay Lighting | Early | Fixture | 773 | 22% | 0.03 | 13 | \$512 | 28% | 0.2 |
| PPL | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 1,708 | 65% | 0.2 | 13 | \$512 | 36% | 1.3 |
| PPL | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 562 | 18% | 0.02 | 13 | \$16 | 25% | 3.9 |
| PPL | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 1,298 | 65% | 0.2 | 13 | \$18 | 36% | 28.5 |
| PPL | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 739 | 18% | 0.03 | 13 | \$16 | 25% | 5.2 |
| PPL | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 1,708 | 65% | 0.2 | 13 | \$18 | 36% | 37.5 |
| PPL | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 739 | 1.5% | 0.00 | 13 | \$582 | 19% | 0.0 |
| PPL | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Other Inst'l | High Bay Lighting | Early | Fixture | 761 | 4.3% | 0.01 | 13 | \$582 | 19% | 0.0 |
| PPL | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 1,708 | 57% | 0.2 | 13 | \$582 | 19% | 1.1 |
| PPL | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 562 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| PPL | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 1,298 | 57% | 0.1 | 13 | \$88 | 19% | 5.3 |
| PPL | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 739 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| PPL | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 1,708 | 57% | 0.2 | 13 | \$88 | 19% | 6.9 |
| PPL | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 314 | 29% | 0.01 | 13 | \$517 | 71% | 0.1 |
| PPL | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 262 | 15% | 0.01 | 13 | \$517 | 95% | 0.0 |
| PPL | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 390 | 43% | 0.02 | 13 | \$517 | 95% | 0.2 |
| PPL | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 361 | 38% | 0.02 | 13 | \$517 | 95% | 0.2 |
| PPL | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 199 | 15% | 0.00 | 13 | \$25 | 95% | 0.7 |
| PPL | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 296 | 43% | 0.02 | 13 | \$51 | 95% | 1.4 |
| PPL | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 262 | 15% | 0.01 | 13 | \$25 | 95% | 0.9 |
| PPL | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 390 | 43% | 0.02 | 13 | \$51 | 95% | 1.9 |
| PPL | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Other Inst'l | High Bay Lighting | Early | lamp | 86 | 16% | 0.00 | 12 | \$8.7 | 99% | 1.0 |
| PPL | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Other Inst'l | High Bay Lighting | New | lamp | 51 | 13% | 0.00 | 12 | \$1.6 | 91% | 2.4 |
| PPL | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Other Inst'l | High Bay Lighting | ROB | lamp | 82 | 13% | 0.00 | 12 | \$1.6 | 91% | 3.9 |
| PPL | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 1,748 | 23% | 0.08 | 13 | \$639 | 5% | 0.4 |
| PPL | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Other Inst'l | High Bay Lighting | Early | Fixture | 1,373 | 1.6% | 0.00 | 13 | \$639 | 28% | 0.0 |
| PPL | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 3,417 | 60% | 0.4 | 13 | \$639 | 18% | 2.0 |
| PPL | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 1,329 | 23% | 0.06 | 13 | \$96 | 5% | 2.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|--|--------------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 1,748 | 23% | 0.08 | 13 | \$96 | 5% | 2.6 |
| PPL | Auto Off Time Switch | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | Existing | building | 993 | 24% | 0.2 | 8 | \$1,034 | 13% | 0.2 |
| PPL | Auto Off Time Switch | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | New | building | 993 | 6.9% | 0.07 | 8 | \$1,034 | 0% | 0.1 |
| PPL | Central Lighting Control System | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | Existing | building | 993 | 38% | 0.4 | 8 | \$1,034 | 13% | 0.3 |
| PPL | Central Lighting Control System | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | New | building | 993 | 14% | 0.1 | 8 | \$1,034 | 13% | 0.1 |
| PPL | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Other Inst'l | High Bay Lighting | New | building | 993 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.0 |
| PPL | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Other Inst'l | High Bay Lighting | New | building | 993 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |
| PPL | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Other Inst'l | High Bay Lighting | New | building | 993 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| PPL | Indoor Daylight Sensors | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | Existing | building | 993 | 28% | 0.3 | 8 | \$5,088 | 13% | 0.0 |
| PPL | Indoor Daylight Sensors | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | New | building | 993 | 4.0% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| PPL | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 1,748 | 92% | 0.3 | 13 | \$1,941 | 95% | 0.5 |
| PPL | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 3,417 | 96% | 0.6 | 13 | \$1,941 | 95% | 1.1 |
| PPL | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 1,329 | 92% | 0.2 | 13 | \$1,468 | 95% | 0.5 |
| PPL | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 2,597 | 96% | 0.5 | 13 | \$1,149 | 95% | 1.4 |
| PPL | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 1,748 | 92% | 0.3 | 13 | \$1,468 | 95% | 0.7 |
| PPL | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 3,417 | 96% | 0.6 | 13 | \$1,149 | 95% | 1.8 |
| PPL | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 580 | 67% | 0.07 | 13 | \$985 | 95% | 0.2 |
| PPL | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 1,708 | 89% | 0.3 | 13 | \$985 | 95% | 1.0 |
| PPL | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Other Inst'l | High Bay Lighting | Early | Fixture | 469 | 59% | 0.05 | 13 | \$985 | 95% | 0.2 |
| PPL | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 441 | 67% | 0.06 | 13 | \$480 | 95% | 0.4 |
| PPL | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 1,298 | 89% | 0.2 | 13 | \$491 | 95% | 1.5 |
| PPL | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Other Inst'l | High Bay Lighting | New | Fixture | 356 | 59% | 0.04 | 13 | \$406 | 95% | 0.3 |
| PPL | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 580 | 67% | 0.07 | 13 | \$480 | 95% | 0.5 |
| PPL | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 1,708 | 89% | 0.3 | 13 | \$491 | 95% | 1.9 |
| PPL | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Other Inst'l | High Bay Lighting | ROB | Fixture | 469 | 59% | 0.05 | 13 | \$406 | 95% | 0.4 |
| PPL | Occupancy Sensor | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | Existing | building | 993 | 24% | 0.2 | 8 | \$1,558 | 11% | 0.1 |
| PPL | Occupancy Sensor | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | New | building | 993 | 6.9% | 0.07 | 8 | \$1,558 | 0% | 0.0 |
| PPL | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | Existing | building | 993 | 28% | 0.3 | 8 | \$5,088 | 11% | 0.0 |
| PPL | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | New | building | 993 | 4.0% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| PPL | Time Clock Control | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | Existing | building | 993 | 28% | 0.3 | 8 | \$1,034 | 13% | 0.2 |
| PPL | Time Clock Control | Lighting w/ No Controls | Other Inst'l | High Bay Lighting | New | building | 993 | 4.0% | 0.04 | 8 | \$1,034 | 0% | 0.0 |
| PPL | Auto Off Time Switch | Lighting w/ No Controls | Other Inst'l | Lin. Fluor. Lighting | Existing | building | 17,570 | 24% | 0.2 | 8 | \$1,034 | 13% | 1.4 |
| PPL | Auto Off Time Switch | Lighting w/ No Controls | Other Inst'l | Lin. Fluor. Lighting | New | building | 17,570 | 7.0% | 0.07 | 8 | \$1,034 | 0% | 0.4 |
| PPL | Central Lighting Control System | Lighting w/ No Controls | Other Inst'l | Lin. Fluor. Lighting | Existing | building | 17,570 | 38% | 0.4 | 8 | \$1,034 | 12% | 2.3 |
| PPL | Central Lighting Control System | Lighting w/ No Controls | Other Inst'l | Lin. Fluor. Lighting | New | building | 17,570 | 14% | 0.1 | 8 | \$1,034 | 12% | 0.8 |
| PPL | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Other Inst'l | Lin. Fluor. Lighting | New | building | 17,570 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.0 |
| PPL | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Other Inst'l | Lin. Fluor. Lighting | New | building | 17,570 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |
| PPL | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Other Inst'l | Lin. Fluor. Lighting | New | building | 17,570 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| PPL | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Other Inst'l | Lin. Fluor. Lighting | Early | Lamp | 172 | 38% | 0.01 | 12 | \$8.3 | 94% | 4.6 |
| PPL | Indoor Daylight Sensors | Lighting w/ No Controls | Other Inst'l | Lin. Fluor. Lighting | Existing | building | 17,570 | 28% | 0.3 | 8 | \$5,088 | 13% | 0.3 |
| PPL | Indoor Daylight Sensors | Lighting w/ No Controls | Other Inst'l | Lin. Fluor. Lighting | New | building | 17,570 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | Early | Lamp | 38 | 19% | 0.00 | 15 | \$36 | 94% | 0.1 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 40W T12 Lamp, Magnetic Ballast | Other Inst'l | Lin. Fluor. Lighting | Early | Lamp | 83 | 63% | 0.01 | 15 | \$36 | 94% | 1.0 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | Early | Lamp | 46 | 34% | 0.00 | 15 | \$36 | 94% | 0.3 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | Early | Lamp | 45 | 32% | 0.00 | 15 | \$36 | 94% | 0.3 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | New | Lamp | 29 | 19% | 0.00 | 15 | \$28 | 94% | 0.1 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | New | Lamp | 34 | 32% | 0.00 | 15 | \$29 | 94% | 0.3 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | New | Lamp | 35 | 34% | 0.00 | 15 | \$22 | 94% | 0.4 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | New | Lamp | 34 | 32% | 0.00 | 15 | \$29 | 94% | 0.3 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | ROB | Lamp | 38 | 19% | 0.00 | 15 | \$28 | 94% | 0.2 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | ROB | Lamp | 45 | 32% | 0.00 | 15 | \$29 | 94% | 0.3 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | ROB | Lamp | 46 | 34% | 0.00 | 15 | \$22 | 94% | 0.5 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | ROB | Lamp | 45 | 32% | 0.00 | 15 | \$29 | 94% | 0.3 |
| PPL | Occupancy Sensor | Lighting w/ No Controls | Other Inst'l | Lin. Fluor. Lighting | Existing | building | 17,570 | 24% | 0.2 | 8 | \$1,558 | 12% | 0.9 |
| PPL | Occupancy Sensor | Lighting w/ No Controls | Other Inst'l | Lin. Fluor. Lighting | New | building | 17,570 | 7.0% | 0.07 | 8 | \$1,558 | 0% | 0.3 |
| PPL | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Other Inst'l | Lin. Fluor. Lighting | Existing | building | 17,570 | 28% | 0.3 | 8 | \$5,088 | 11% | 0.3 |
| PPL | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Other Inst'l | Lin. Fluor. Lighting | New | building | 17,570 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 40W T12 w/ Magnetic Ballast | Other Inst'l | Lin. Fluor. Lighting | Early | Lamp | 172 | 54% | 0.02 | 12 | \$9.1 | 94% | 6.0 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | Early | Lamp | 110 | 28% | 0.01 | 12 | \$9.1 | 24% | 2.0 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | Early | Lamp | 107 | 26% | 0.01 | 12 | \$9.1 | 94% | 1.8 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | New | Lamp | 81 | 26% | 0.00 | 12 | \$2.5 | 94% | 4.9 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | New | Lamp | 81 | 26% | 0.00 | 12 | \$2.5 | 94% | 4.9 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | New | Lamp | 84 | 28% | 0.00 | 12 | \$2.5 | 24% | 5.5 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Other Inst'l | Lin. Fluor. Lighting | New | Lamp | 81 | 26% | 0.00 | 12 | \$2.5 | 94% | 4.9 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|--|--------------|---------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Variable Speed Drive Control, 15HP | Existing Motors w/out VFD Drive | Other Inst'l | Motors | Early | motor | 16,204 | 72% | 1.7 | 15 | \$791 | 86% | 9.9 |
| PPL | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VFD Drive | Other Inst'l | Motors | New | motor | 15,842 | 72% | 1.7 | 15 | \$731 | 86% | 10.5 |
| PPL | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VFD Drive | Other Inst'l | Motors | ROB | motor | 15,842 | 72% | 1.7 | 15 | \$731 | 86% | 10.5 |
| PPL | Variable Speed Drive Control, 40HP | Existing Motors w/out VSD Drive | Other Inst'l | Motors | Early | motor | 121,967 | 71% | 12.7 | 15 | \$4,726 | 86% | 12.3 |
| PPL | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Other Inst'l | Motors | New | motor | 120,541 | 72% | 12.7 | 15 | \$4,666 | 86% | 12.5 |
| PPL | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Other Inst'l | Motors | ROB | motor | 120,541 | 72% | 12.7 | 15 | \$4,666 | 86% | 12.5 |
| PPL | Variable Speed Drive Control, 5HP | Existing Motors w/out VSD Drive | Other Inst'l | Motors | Early | motor | 46,743 | 70% | 4.8 | 15 | \$2,303 | 86% | 9.6 |
| PPL | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VSD Drive | Other Inst'l | Motors | New | motor | 45,738 | 72% | 4.8 | 15 | \$2,243 | 86% | 9.8 |
| PPL | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VSD Drive | Other Inst'l | Motors | ROB | motor | 45,738 | 72% | 4.8 | 15 | \$2,243 | 86% | 9.8 |
| PPL | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Other Inst'l | Motors | Early | motor | 5,707 | 20% | 0.1 | 15 | \$328 | 13% | 2.2 |
| PPL | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Other Inst'l | Motors | New | motor | 5,707 | 20% | 0.1 | 15 | \$268 | 13% | 2.7 |
| PPL | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Other Inst'l | Motors | ROB | motor | 5,707 | 20% | 0.1 | 15 | \$268 | 13% | 2.7 |
| PPL | VFD on Chilled Water Pump | Motor w/out VFD Drive | Other Inst'l | Motors | Early | motor | 16,452 | 54% | 2.7 | 15 | \$2,903 | 86% | 2.3 |
| PPL | VFD on Chilled Water Pump | Motor w/out VFD Drive | Other Inst'l | Motors | New | motor | 16,144 | 55% | 2.7 | 15 | \$2,843 | 86% | 2.4 |
| PPL | VFD on Chilled Water Pump | Motor w/out VFD Drive | Other Inst'l | Motors | ROB | motor | 16,144 | 55% | 2.7 | 15 | \$2,843 | 86% | 2.4 |
| PPL | VFD on Condenser Water Pump | Motor w/out VFD Drive | Other Inst'l | Motors | Early | motor | 16,379 | 32% | 3.2 | 15 | \$2,903 | 86% | 1.8 |
| PPL | VFD on Condenser Water Pump | Motor w/out VFD Drive | Other Inst'l | Motors | New | motor | 16,072 | 33% | 3.1 | 15 | \$2,843 | 86% | 1.8 |
| PPL | VFD on Condenser Water Pump | Motor w/out VFD Drive | Other Inst'l | Motors | ROB | motor | 16,072 | 33% | 3.1 | 15 | \$2,843 | 86% | 1.8 |
| PPL | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Other Inst'l | Motors | Early | motor | 29,557 | 56% | 0.00 | 15 | \$2,903 | 86% | 3.1 |
| PPL | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Other Inst'l | Motors | New | motor | 29,004 | 57% | 0.00 | 15 | \$2,843 | 86% | 3.2 |
| PPL | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Other Inst'l | Motors | ROB | motor | 29,004 | 57% | 0.00 | 15 | \$2,843 | 86% | 3.2 |
| PPL | VFD on HVAC Fan | Motor w/out VFD | Other Inst'l | Motors | Early | motor | 16,452 | 70% | 3.4 | 15 | \$2,903 | 86% | 3.1 |
| PPL | VFD on HVAC Fan | Motor w/out VFD | Other Inst'l | Motors | New | motor | 16,144 | 72% | 3.3 | 15 | \$2,843 | 86% | 3.1 |
| PPL | VFD on HVAC Fan | Motor w/out VFD | Other Inst'l | Motors | ROB | motor | 16,144 | 72% | 3.3 | 15 | \$2,843 | 86% | 3.1 |
| PPL | Variable Speed Drives on Process Equipment | Constant speed control | Other Inst'l | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 10.4 |
| PPL | Variable Speed Drives on Process Equipment | Constant speed control | Other Inst'l | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 10.4 |
| PPL | Auto Off Time Switch | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | Existing | building | 5,485 | 24% | 0.2 | 8 | \$1,034 | 13% | 0.5 |
| PPL | Auto Off Time Switch | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | New | building | 5,485 | 7.0% | 0.07 | 8 | \$1,034 | 0% | 0.1 |
| PPL | Central Lighting Control System | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | Existing | building | 5,485 | 38% | 0.4 | 8 | \$1,034 | 13% | 0.8 |
| PPL | Central Lighting Control System | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | New | building | 5,485 | 14% | 0.1 | 8 | \$1,034 | 13% | 0.3 |
| PPL | Cold Cathode Screw-In Bulb | 40W Incandescent Bulb | Other Inst'l | Other Int. Lighting | Early | lamp | 87 | 87% | 0.01 | 15 | \$33 | 14% | 1.6 |
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | Early | lamp | 62 | 81% | 0.01 | 15 | \$33 | 11% | 1.1 |
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | New | lamp | 47 | 81% | 0.01 | 15 | \$24 | 14% | 1.1 |
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | New | lamp | 47 | 81% | 0.01 | 15 | \$25 | 14% | 1.1 |
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | New | lamp | 47 | 81% | 0.01 | 15 | \$24 | 11% | 1.1 |
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | ROB | lamp | 62 | 81% | 0.01 | 15 | \$24 | 14% | 1.5 |
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | ROB | lamp | 62 | 81% | 0.01 | 15 | \$25 | 14% | 1.4 |
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | ROB | lamp | 62 | 81% | 0.01 | 15 | \$24 | 11% | 1.4 |
| PPL | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Other Inst'l | Other Int. Lighting | Early | lamp | 87 | 75% | 0.01 | 7 | \$73 | 39% | 0.3 |
| PPL | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Other Inst'l | Other Int. Lighting | New | lamp | 95 | 65% | 0.01 | 13 | \$29 | 46% | 1.3 |
| PPL | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | New | lamp | 47 | 65% | 0.01 | 7 | \$29 | 46% | 0.4 |
| PPL | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Other Inst'l | Other Int. Lighting | ROB | lamp | 125 | 65% | 0.01 | 13 | \$29 | 39% | 1.7 |
| PPL | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | ROB | lamp | 62 | 65% | 0.01 | 7 | \$29 | 39% | 0.5 |
| PPL | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Other Inst'l | Other Int. Lighting | Early | lamp | 87 | 75% | 0.01 | 7 | \$3.6 | 24% | 6.5 |
| PPL | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | New | lamp | 47 | 65% | 0.01 | 7 | \$1.8 | 24% | 6.3 |
| PPL | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | ROB | lamp | 62 | 65% | 0.01 | 7 | \$1.8 | 24% | 8.3 |
| PPL | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Other Inst'l | Other Int. Lighting | ROB | lamp | 62 | 65% | 0.01 | 7 | \$1.8 | 24% | 8.3 |
| PPL | Exit Sign Retrofit: CFL replacing Incandescent | One 23W Single Sided Incandescent Exit Sign | Other Inst'l | Other Int. Lighting | Early | exit sign | 139 | 42% | 0.01 | 15 | \$78 | 22% | 0.5 |
| PPL | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Other Inst'l | Other Int. Lighting | New | building | 5,485 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.0 |
| PPL | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Other Inst'l | Other Int. Lighting | New | building | 5,485 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |
| PPL | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Other Inst'l | Other Int. Lighting | New | building | 5,485 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| PPL | Indoor Daylight Sensors | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | Existing | building | 5,485 | 28% | 0.3 | 8 | \$5,088 | 13% | 0.1 |
| PPL | Indoor Daylight Sensors | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | New | building | 5,485 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| PPL | LED Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Other Inst'l | Other Int. Lighting | Early | sign | 153 | 87% | 0.02 | 15 | \$78 | 16% | 1.1 |
| PPL | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Other Inst'l | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 2.0 |
| PPL | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Other Inst'l | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 2.0 |
| PPL | LED Task Lighting/Screw-In | 1 15W CFL bulb | Other Inst'l | Other Int. Lighting | Early | lamp | 22 | 33% | 0.00 | 15 | \$9.6 | 24% | 0.3 |
| PPL | LED Task Lighting/Screw-In | 1 60W Incandescent Bulb | Other Inst'l | Other Int. Lighting | Early | lamp | 89 | 83% | 0.01 | 15 | \$9.6 | 24% | 2.6 |
| PPL | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Other Inst'l | Other Int. Lighting | New | lamp | 49 | 77% | 0.01 | 15 | \$7.9 | 24% | 1.6 |
| PPL | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Other Inst'l | Other Int. Lighting | New | lamp | 49 | 77% | 0.01 | 15 | \$7.9 | 24% | 1.6 |
| PPL | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Other Inst'l | Other Int. Lighting | ROB | lamp | 64 | 77% | 0.01 | 15 | \$7.9 | 24% | 2.1 |
| PPL | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Other Inst'l | Other Int. Lighting | ROB | lamp | 64 | 77% | 0.01 | 15 | \$7.9 | 24% | 2.1 |
| PPL | Occupancy Sensor | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | Existing | building | 5,485 | 24% | 0.2 | 8 | \$1,558 | 11% | 0.3 |
| PPL | Occupancy Sensor | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | New | building | 5,485 | 7.0% | 0.07 | 8 | \$1,558 | 0% | 0.1 |
| PPL | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | Existing | building | 5,485 | 28% | 0.3 | 8 | \$5,088 | 11% | 0.1 |
| PPL | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | New | building | 5,485 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| PPL | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Other Inst'l | Other Int. Lighting | Early | exit sign | 139 | 100% | 0.02 | 15 | \$203 | 26% | 0.5 |
| PPL | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Other Inst'l | Other Int. Lighting | New | exit sign | 80 | 100% | 0.01 | 15 | \$148 | 31% | 0.4 |
| PPL | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Other Inst'l | Other Int. Lighting | ROB | exit sign | 80 | 100% | 0.01 | 15 | \$148 | 26% | 0.4 |
| PPL | Time Clock Control | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | Existing | building | 5,485 | 28% | 0.3 | 8 | \$1,034 | 13% | 0.6 |
| PPL | Time Clock Control | Lighting w/ No Controls | Other Inst'l | Other Int. Lighting | New | building | 5,485 | 4.1% | 0.04 | 8 | \$1,034 | 0% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|---|--------------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Other Inst'l | Plug Load | Existing | building | 2,913 | 46% | 0.5 | 5 | \$189 | 4% | 2.2 |
| PPL | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Other Inst'l | Plug Load | New | building | 1,422 | 46% | 0.5 | 5 | \$189 | 4% | 1.5 |
| PPL | Data Center - Server/Storage Consolidation | No Consolidation | Other Inst'l | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PPL | Data Center - Server/Storage Consolidation | No Consolidation | Other Inst'l | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PPL | Data Center - Server/Storage Virtualization | No Virtualization | Other Inst'l | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PPL | Data Center - Server/Storage Virtualization | No Virtualization | Other Inst'l | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PPL | Energy Star - Scanners | Std Scanner | Other Inst'l | Plug Load | New | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| PPL | Energy Star - Scanners | Std Scanner | Other Inst'l | Plug Load | ROB | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| PPL | Energy Star Dishwasher | Existing Dishwasher units | Other Inst'l | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,580 | 1% | 1.0 |
| PPL | Energy Star Dishwasher | Standard Dishwasher unit | Other Inst'l | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 1% | 3.3 |
| PPL | Energy Star Dishwasher | Standard Dishwasher unit | Other Inst'l | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 1% | 3.3 |
| PPL | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Other Inst'l | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 17% | 0.1 |
| PPL | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Other Inst'l | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 1.6 |
| PPL | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Other Inst'l | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 1.6 |
| PPL | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Other Inst'l | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 9% | 0.8 |
| PPL | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Other Inst'l | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.6 |
| PPL | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Other Inst'l | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.6 |
| PPL | ENERGY STAR® Copiers | 10% Less Efficient Copier | Other Inst'l | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 18% | 0.0 |
| PPL | ENERGY STAR® Copiers | One Conventional Copier | Other Inst'l | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| PPL | ENERGY STAR® Copiers | One Conventional Copier | Other Inst'l | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| PPL | ENERGY STAR® desktop | Standard computer | Other Inst'l | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 69% | 0.1 |
| PPL | ENERGY STAR® desktop | Standard computer | Other Inst'l | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.2 |
| PPL | ENERGY STAR® desktop | Standard computer | Other Inst'l | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.2 |
| PPL | ENERGY STAR® Fax | 10% Less Efficient Fax | Other Inst'l | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 15% | 0.0 |
| PPL | ENERGY STAR® Fax | One Conventional Fax | Other Inst'l | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| PPL | ENERGY STAR® Fax | One Conventional Fax | Other Inst'l | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| PPL | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Other Inst'l | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 70% | 0.0 |
| PPL | ENERGY STAR® Monitors | One Conventional Monitor | Other Inst'l | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| PPL | ENERGY STAR® Monitors | One Conventional Monitor | Other Inst'l | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| PPL | ENERGY STAR® Printers | 10% Less Efficient Printer | Other Inst'l | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 44% | 0.0 |
| PPL | ENERGY STAR® Printers | One Conventional Printer | Other Inst'l | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| PPL | ENERGY STAR® Printers | One Conventional Printer | Other Inst'l | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| PPL | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Other Inst'l | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 43% | 0.1 |
| PPL | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Other Inst'l | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.7 |
| PPL | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Other Inst'l | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.7 |
| PPL | ENERGY STAR® Televisions | 10% Less Efficient Television | Other Inst'l | Plug Load | Early | Unit | 111 | 38% | 0.01 | 6 | \$672 | 40% | 0.0 |
| PPL | ENERGY STAR® Televisions | One Conventional Television | Other Inst'l | Plug Load | New | Unit | 101 | 32% | 0.01 | 6 | \$206 | 40% | 0.0 |
| PPL | ENERGY STAR® Televisions | One Conventional Television | Other Inst'l | Plug Load | ROB | Unit | 101 | 32% | 0.01 | 6 | \$206 | 40% | 0.0 |
| PPL | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Other Inst'l | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 24% | 0.3 |
| PPL | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Other Inst'l | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.6 |
| PPL | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Other Inst'l | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.6 |
| PPL | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Other Inst'l | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.2 |
| PPL | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Other Inst'l | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.2 |
| PPL | Network PC Power Management | No PC Power Management | Other Inst'l | Plug Load | Existing | computer | 425 | 33% | 0.01 | 5 | \$30 | 38% | 1.0 |
| PPL | Network PC Power Management | No PC Power Management | Other Inst'l | Plug Load | New | computer | 425 | 33% | 0.01 | 5 | \$30 | 38% | 1.0 |
| PPL | Smart Strip Plug Outlets | Standard plug strip/outlet | Other Inst'l | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.4 |
| PPL | Smart Strip Plug Outlets | Standard plug strip/outlet | Other Inst'l | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.4 |
| PPL | Smart Strip Plug Outlets | Standard plug strip/outlet | Other Inst'l | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PPL | Smart Strip Plug Outlets | Standard plug strip/outlet | Other Inst'l | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PPL | Smart Strip Plug Outlets | Standard plug strip/outlet | Other Inst'l | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PPL | Smart Strip Plug Outlets | Standard plug strip/outlet | Other Inst'l | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PPL | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Other Inst'l | Plug Load | Existing | building | 2,913 | 46% | 0.5 | 5 | \$180 | 3% | 2.3 |
| PPL | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Other Inst'l | Plug Load | New | building | 1,422 | 46% | 0.5 | 5 | \$180 | 3% | 1.5 |
| PPL | Auto Closer on Refrigerator Door | Door w/out Autocloser | Other Inst'l | Refrigeration | Existing | building | 2,526 | 53% | 0.5 | 8 | \$747 | 40% | 0.9 |
| PPL | Auto Closer on Refrigerator Door | Door w/out Autocloser | Other Inst'l | Refrigeration | Existing | building | 2,349 | 31% | 0.3 | 8 | \$763 | 40% | 0.5 |
| PPL | Auto Closer on Refrigerator Door | Door w/out Autocloser | Other Inst'l | Refrigeration | New | building | 2,526 | 53% | 0.5 | 8 | \$747 | 40% | 0.9 |
| PPL | Auto Closer on Refrigerator Door | Door w/out Autocloser | Other Inst'l | Refrigeration | New | building | 2,349 | 31% | 0.3 | 8 | \$763 | 40% | 0.5 |
| PPL | Door Gasket- Freezer | Door w/out Gasket | Other Inst'l | Refrigeration | Existing | building | 2,526 | 7.3% | 0.3 | 4 | \$27 | 29% | 3.9 |
| PPL | Door Gasket- Freezer | Door w/out Gasket | Other Inst'l | Refrigeration | New | building | 2,526 | 7.9% | 0.3 | 4 | \$29 | 29% | 3.9 |
| PPL | Door Gasket- Refrigerator | Door w/out Gasket | Other Inst'l | Refrigeration | Existing | building | 2,349 | 9.5% | 0.10 | 4 | \$105 | 45% | 0.6 |
| PPL | Door Gasket- Refrigerator | Door w/out Gasket | Other Inst'l | Refrigeration | New | building | 2,349 | 9.5% | 0.10 | 4 | \$105 | 45% | 0.6 |
| PPL | eCube | Refrigeration unit w/out eCube | Other Inst'l | Refrigeration | Existing | building | 2,349 | 15% | 0.2 | 15 | \$700 | 57% | 0.4 |
| PPL | eCube | Refrigeration unit w/out eCube | Other Inst'l | Refrigeration | New | building | 2,349 | 15% | 0.2 | 15 | \$700 | 57% | 0.4 |
| PPL | Efficient compressor motor | Base Refrigeration System - Grocery | Other Inst'l | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| PPL | Efficient compressor motor | Base Refrigeration System - Grocery | Other Inst'l | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| PPL | Efficient compressor motor | Base Refrigeration System - Grocery | Other Inst'l | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| PPL | Efficient compressor motor | Base Refrigeration System - Grocery | Other Inst'l | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|---|--------------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Other Inst'l | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.6 |
| PPL | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Other Inst'l | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| PPL | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Other Inst'l | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| PPL | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Other Inst'l | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.3 |
| PPL | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Other Inst'l | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.7 |
| PPL | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Other Inst'l | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.7 |
| PPL | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Other Inst'l | Refrigeration | Existing | building | 2,349 | 3.4% | 0.03 | 10 | \$369 | 77% | 0.1 |
| PPL | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Other Inst'l | Refrigeration | New | building | 2,349 | 3.4% | 0.03 | 10 | \$369 | 77% | 0.1 |
| PPL | Floating head pressure controller | System w/out FHPC | Other Inst'l | Refrigeration | Existing | building | 2,526 | 4.9% | 0.05 | 15 | \$8,682 | 41% | 0.0 |
| PPL | Floating head pressure controller | System w/out FHPC | Other Inst'l | Refrigeration | Existing | building | 2,349 | 2.0% | 0.02 | 15 | \$8,682 | 41% | 0.0 |
| PPL | Floating head pressure controller | System w/out FHPC | Other Inst'l | Refrigeration | New | building | 2,526 | 4.9% | 0.05 | 15 | \$8,682 | 41% | 0.0 |
| PPL | Floating head pressure controller | System w/out FHPC | Other Inst'l | Refrigeration | New | building | 2,349 | 2.0% | 0.02 | 15 | \$8,682 | 41% | 0.0 |
| PPL | High Efficiency Commercial Freezer | Std. Commercial Freezer | Other Inst'l | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 86% | 0.3 |
| PPL | High Efficiency Commercial Freezer | Std. Commercial Freezer | Other Inst'l | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 3.9 |
| PPL | High Efficiency Commercial Freezer | Std. Commercial Freezer | Other Inst'l | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 3.9 |
| PPL | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Other Inst'l | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 2% | 0.1 |
| PPL | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Other Inst'l | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.9 |
| PPL | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Other Inst'l | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.9 |
| PPL | High Efficiency Ice Maker | Exisiting Standard Efficiency Ice Maker in Pennsylvania | Other Inst'l | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 73% | 0.2 |
| PPL | High Efficiency Ice Maker | Standard code minimum Ice Maker | Other Inst'l | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| PPL | High Efficiency Ice Maker | Standard code minimum Ice Maker | Other Inst'l | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| PPL | High Efficiency Ice Making Head | Standard Ice Making Head | Other Inst'l | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.7 |
| PPL | High Efficiency Ice Making Head | Standard Ice Making Head | Other Inst'l | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.7 |
| PPL | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Other Inst'l | Refrigeration | Early | Fixture | 373 | 56% | 0.01 | 8 | \$448 | 47% | 0.1 |
| PPL | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Other Inst'l | Refrigeration | New | Fixture | 291 | 44% | 0.00 | 8 | \$139 | 47% | 0.3 |
| PPL | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Other Inst'l | Refrigeration | ROB | Fixture | 291 | 44% | 0.00 | 8 | \$139 | 47% | 0.3 |
| PPL | Quick acting freezer doors | Std. Freezer Doors | Other Inst'l | Refrigeration | Existing | building | 2,526 | 13% | 0.1 | 10 | \$401 | 56% | 0.5 |
| PPL | Quick acting freezer doors | Std. Freezer Doors | Other Inst'l | Refrigeration | New | building | 2,526 | 13% | 0.1 | 10 | \$401 | 56% | 0.5 |
| PPL | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Other Inst'l | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 30% | 0.4 |
| PPL | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Other Inst'l | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.6 |
| PPL | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Other Inst'l | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.6 |
| PPL | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 30% | 1.6 |
| PPL | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 2.8 |
| PPL | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 2.8 |
| PPL | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 30% | 1.6 |
| PPL | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 3.8 |
| PPL | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 3.8 |
| PPL | Refrigeration Commissioning | Non-commissioned refrigeration system | Other Inst'l | Refrigeration | Existing | building | 5,052 | 9.5% | 0.10 | 3 | \$1,204 | 85% | 0.1 |
| PPL | Refrigeration Commissioning | Non-commissioned refrigeration system | Other Inst'l | Refrigeration | New | building | 5,052 | 9.5% | 0.10 | 3 | \$1,204 | 85% | 0.1 |
| PPL | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Other Inst'l | Refrigeration | Existing | building | 2,526 | 59% | 0.6 | 4 | \$80 | 22% | 4.9 |
| PPL | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Other Inst'l | Refrigeration | Existing | building | 2,349 | 12% | 0.1 | 4 | \$117 | 22% | 0.7 |
| PPL | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Other Inst'l | Refrigeration | New | building | 2,526 | 59% | 0.6 | 4 | \$80 | 22% | 4.9 |
| PPL | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Other Inst'l | Refrigeration | New | building | 2,349 | 12% | 0.1 | 4 | \$117 | 22% | 0.7 |
| PPL | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Other Inst'l | Refrigeration | Existing | building | 2,526 | 12% | 0.1 | 11 | \$119 | 79% | 1.6 |
| PPL | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Other Inst'l | Refrigeration | New | building | 2,526 | 12% | 0.1 | 11 | \$119 | 79% | 1.6 |
| PPL | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Other Inst'l | Refrigeration | Existing | building | 2,349 | 8.9% | 0.09 | 11 | \$119 | 79% | 1.1 |
| PPL | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Other Inst'l | Refrigeration | New | building | 2,349 | 8.9% | 0.09 | 11 | \$119 | 79% | 1.1 |
| PPL | VSD Controlled Compressor | Compressor w/out VSD | Other Inst'l | Refrigeration | Early | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |
| PPL | VSD Controlled Compressor | Compressor w/out VSD | Other Inst'l | Refrigeration | New | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |
| PPL | VSD Controlled Compressor | Compressor w/out VSD | Other Inst'l | Refrigeration | ROB | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |
| PPL | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Other Inst'l | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$269 | 24% | 0.9 |
| PPL | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Other Inst'l | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$269 | 24% | 0.8 |
| PPL | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Other Inst'l | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 24% | 3.0 |
| PPL | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Other Inst'l | Refrigeration | New | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 24% | 2.9 |
| PPL | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Other Inst'l | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 24% | 3.0 |
| PPL | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Other Inst'l | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 24% | 2.9 |
| PPL | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 24% | 2.3 |
| PPL | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 24% | 2.2 |
| PPL | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$151 | 24% | 4.1 |
| PPL | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$151 | 24% | 3.9 |
| PPL | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$151 | 24% | 4.1 |
| PPL | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Other Inst'l | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$151 | 24% | 3.9 |
| PPL | Adding reflective roof treatment | Std color roof | Other Inst'l | Space Heating | Existing | building | 4,651 | 7.1% | 0.07 | 6 | \$12,711 | 82% | 0.0 |
| PPL | Adding reflective roof treatment | Std color roof | Other Inst'l | Space Heating | New | building | 4,651 | 7.1% | 0.07 | 6 | \$12,711 | 82% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|--|--------------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Adding window shade film | No shade film | Other Inst'l | Space Heating | Existing | building | 4,651 | 1.3% | 0.4 | 10 | \$57 | 13% | 3.9 |
| PPL | Adding window shade film | No shade film | Other Inst'l | Space Heating | New | building | 4,651 | 1.3% | 0.4 | 10 | \$57 | 13% | 3.9 |
| PPL | Adding window shade screen | No shade screen | Other Inst'l | Space Heating | Existing | building | 4,651 | 1.1% | 0.01 | 10 | \$22 | 13% | 1.2 |
| PPL | Adding window shade screen | No shade screen | Other Inst'l | Space Heating | New | building | 4,651 | 1.1% | 0.01 | 10 | \$22 | 13% | 1.2 |
| PPL | Automated control system | Manual Controls | Other Inst'l | Space Heating | Existing | building | 4,651 | 17% | 0.2 | 15 | \$5,092 | 51% | 0.1 |
| PPL | Automated control system | Manual Controls | Other Inst'l | Space Heating | New | building | 4,651 | 17% | 0.2 | 15 | \$5,092 | 94% | 0.1 |
| PPL | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Other Inst'l | Space Heating | Existing | building | 4,651 | 7.2% | 0.07 | 15 | \$17,130 | 71% | 0.0 |
| PPL | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Other Inst'l | Space Heating | New | building | 4,651 | 2.4% | 0.02 | 15 | \$16,283 | 94% | 0.0 |
| PPL | Duct Insulation, Add R8 | No Insulation | Other Inst'l | Space Heating | Existing | building | 4,651 | 1.4% | 0.04 | 15 | \$37 | 20% | 1.7 |
| PPL | Duct Insulation, Add R8 | No Insulation | Other Inst'l | Space Heating | New | building | 4,651 | 1.4% | 0.04 | 15 | \$37 | 10% | 1.7 |
| PPL | Efficient Unit Heating System | Existing Unit Heaters in PA | Other Inst'l | Space Heating | Early | heater | 31,042 | 23% | 0.05 | 15 | \$3,289 | 83% | 1.2 |
| PPL | Efficient Unit Heating System | Std. Unit Heater | Other Inst'l | Space Heating | New | heater | 27,550 | 13% | 0.03 | 15 | \$1,985 | 83% | 1.0 |
| PPL | Efficient Unit Heating System | Std. Unit Heater | Other Inst'l | Space Heating | ROB | heater | 27,550 | 13% | 0.03 | 15 | \$1,985 | 83% | 1.0 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Other Inst'l | Space Heating | Existing | building | 4,651 | 7.1% | 0.07 | 15 | \$20,630 | 25% | 0.0 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Other Inst'l | Space Heating | New | building | 4,651 | 7.1% | 0.07 | 15 | \$20,630 | 35% | 0.0 |
| PPL | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Other Inst'l | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$77 | 32% | 1.0 |
| PPL | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Other Inst'l | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$77 | 32% | 1.0 |
| PPL | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Other Inst'l | Space Heating | Existing | building | 4,651 | 1.1% | 0.01 | 10 | \$7,735 | 81% | 0.0 |
| PPL | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Other Inst'l | Space Heating | New | building | 4,651 | 1.1% | 0.01 | 10 | \$7,735 | 81% | 0.0 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Other Inst'l | Space Heating | Existing | building | 4,651 | 3.6% | 0.04 | 11 | \$286 | 49% | 0.3 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Other Inst'l | Space Heating | New | building | 4,651 | 3.1% | 0.03 | 11 | \$146 | 49% | 0.5 |
| PPL | Re-Commissioning (Existing Construction) | No Re-Commissioning | Other Inst'l | Space Heating | Existing | building | 4,651 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |
| PPL | VFD on Cooling Tower Fan | Motor w/out VFD | Other Inst'l | Space Heating | Early | motor | 16,452 | 70% | 3.4 | 15 | \$2,843 | 88% | 3.1 |
| PPL | VFD on Cooling Tower Fan | Motor w/out VFD | Other Inst'l | Space Heating | New | motor | 16,144 | 72% | 3.3 | 15 | \$2,843 | 88% | 3.1 |
| PPL | VFD on Cooling Tower Fan | Motor w/out VFD | Other Inst'l | Space Heating | ROB | motor | 16,144 | 72% | 3.3 | 15 | \$2,843 | 88% | 3.1 |
| PPL | Wall Insualtions (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Other Inst'l | Space Heating | Existing | building | 4,651 | 13% | 0.1 | 15 | \$3,285 | 26% | 0.1 |
| PPL | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Other Inst'l | Space Heating | New | building | 4,651 | 0.3% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| PPL | Green LED Traffic Light | Green Incandescent Traffic Light | Other Inst'l | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 0% | 1.2 |
| PPL | Green LED Traffic Light | Green Incandescent Traffic Light | Other Inst'l | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| PPL | Green LED Traffic Light | Green Incandescent Traffic Light | Other Inst'l | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| PPL | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Other Inst'l | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 0% | 3.0 |
| PPL | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Other Inst'l | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| PPL | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Other Inst'l | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| PPL | Induction Street Lighting | One 100W HPS Street Light Fixture | Other Inst'l | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 0% | 0.3 |
| PPL | Induction Street Lighting | One 100W HPS Street Light Fixture | Other Inst'l | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.7 |
| PPL | Induction Street Lighting | One 100W HPS Street Light Fixture | Other Inst'l | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.7 |
| PPL | LED Street Lighting | One 100W HPS Street Light | Other Inst'l | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 0% | 0.2 |
| PPL | LED Street Lighting | One 100W HPS Street Light | Other Inst'l | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| PPL | LED Street Lighting | One 100W HPS Street Light | Other Inst'l | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| PPL | Red LED Traffic Light | One Red Incandescent Traffic Light | Other Inst'l | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 0% | 1.6 |
| PPL | Red LED Traffic Light | One Red Incandescent Traffic Light | Other Inst'l | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| PPL | Red LED Traffic Light | One Red Incandescent Traffic Light | Other Inst'l | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| PPL | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Other Inst'l | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 0% | 0.1 |
| PPL | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Other Inst'l | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| PPL | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Other Inst'l | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| PPL | Demand controlled Circulating Systems | Constant circulation system | Other Inst'l | Water Heating | Existing | building | 4,231 | 20% | 0.2 | 15 | \$768 | 59% | 0.8 |
| PPL | Demand controlled Circulating Systems | Constant circulation system | Other Inst'l | Water Heating | New | building | 4,231 | 20% | 0.2 | 15 | \$768 | 59% | 0.8 |
| PPL | Drainwater Heat Recovery Water Heater | No heat recovery | Other Inst'l | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.9 |
| PPL | Drainwater Heat Recovery Water Heater | No heat recovery | Other Inst'l | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.9 |
| PPL | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Other Inst'l | Water Heating | Existing | building | 4,231 | 5.9% | 0.06 | 12 | \$42 | 85% | 3.6 |
| PPL | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Other Inst'l | Water Heating | New | building | 4,231 | 5.9% | 0.06 | 12 | \$12 | 85% | 12.7 |
| PPL | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Other Inst'l | Water Heating | Early | water heater | 10,645 | 66% | 1.2 | 10 | \$2,045 | 68% | 1.7 |
| PPL | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Other Inst'l | Water Heating | Early | water heater | 10,645 | 66% | 1.2 | 10 | \$2,045 | 68% | 1.7 |
| PPL | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Other Inst'l | Water Heating | New | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 2.9 |
| PPL | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Other Inst'l | Water Heating | New | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 2.9 |
| PPL | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Other Inst'l | Water Heating | ROB | water heater | 10,350 | 65% | 1.2 | 10 | \$1,187 | 68% | 2.8 |
| PPL | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Other Inst'l | Water Heating | ROB | water heater | 10,350 | 65% | 1.2 | 10 | \$1,187 | 68% | 2.8 |
| PPL | Heat Recovery Unit | Base Water Heating | Other Inst'l | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.6 |
| PPL | Heat Recovery Unit | Base Water Heating | Other Inst'l | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.6 |
| PPL | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Other Inst'l | Water Heating | Early | water heater | 10,645 | 5.9% | 0.1 | 15 | \$865 | 79% | 0.5 |
| PPL | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Other Inst'l | Water Heating | Early | water heater | 10,645 | 5.9% | 0.1 | 15 | \$865 | 79% | 0.5 |
| PPL | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Other Inst'l | Water Heating | New | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.8 |
| PPL | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Other Inst'l | Water Heating | New | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.8 |
| PPL | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Other Inst'l | Water Heating | ROB | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.8 |
| PPL | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Other Inst'l | Water Heating | ROB | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.8 |
| PPL | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Other Inst'l | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$646 | 81% | 28.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|---|--------------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Other Inst'l | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 20.4 |
| PPL | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Other Inst'l | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 20.4 |
| PPL | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Other Inst'l | Water Heating | Existing | building | 4,231 | 0.8% | 0.01 | 13 | \$4.9 | 68% | 4.5 |
| PPL | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Other Inst'l | Water Heating | New | building | 4,231 | 0.8% | 0.01 | 13 | \$4.9 | 0% | 4.5 |
| PPL | Hot Water Circulation Pump Time-Clock | Constant circulation system | Other Inst'l | Water Heating | Existing | building | 4,231 | 5.3% | 0.05 | 10 | \$17 | 72% | 6.8 |
| PPL | Hot Water Circulation Pump Time-Clock | Constant circulation system | Other Inst'l | Water Heating | New | building | 4,231 | 5.3% | 0.05 | 10 | \$17 | 72% | 6.8 |
| PPL | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Other Inst'l | Water Heating | Existing | building | 4,231 | 0.9% | 0.01 | 7 | \$22 | 78% | 0.7 |
| PPL | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Other Inst'l | Water Heating | New | building | 4,231 | 0.8% | 0.01 | 7 | \$0.5 | 78% | 26.1 |
| PPL | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Other Inst'l | Water Heating | Existing | building | 4,231 | 4.5% | 0.05 | 5 | \$300 | 0% | 0.2 |
| PPL | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Other Inst'l | Water Heating | New | building | 4,231 | 3.0% | 0.03 | 5 | \$194 | 0% | 0.2 |
| PPL | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Other Inst'l | Water Heating | Existing | building | 4,231 | 6.5% | 0.07 | 9 | \$25 | 2% | 5.2 |
| PPL | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Other Inst'l | Water Heating | New | building | 4,231 | 6.5% | 0.07 | 9 | \$6.0 | 2% | 21.7 |
| PPL | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Other Inst'l | Water Heating | Early | water heater | 10,645 | 52% | 0.4 | 15 | \$7,080 | 32% | 0.5 |
| PPL | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Other Inst'l | Water Heating | New | water heater | 10,350 | 51% | 0.4 | 15 | \$6,222 | 32% | 0.5 |
| PPL | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Other Inst'l | Water Heating | ROB | water heater | 10,350 | 51% | 0.4 | 15 | \$6,222 | 32% | 0.5 |
| PPL | Ultrasonic Faucet Control | Manual Faucet Control | Other Inst'l | Water Heating | Existing | building | 4,231 | 3.0% | 0.03 | 10 | \$732 | 77% | 0.1 |
| PPL | Ultrasonic Faucet Control | Manual Faucet Control | Other Inst'l | Water Heating | New | building | 4,231 | 3.0% | 0.03 | 10 | \$732 | 77% | 0.1 |
| PPL | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Other Inst'l | Water Heating | Existing | building | 4,231 | 2.2% | 0.02 | 4 | \$28 | 83% | 0.8 |
| PPL | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Other Inst'l | Water Heating | New | building | 4,231 | 2.3% | 0.02 | 4 | \$28 | 83% | 0.8 |
| PPL | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Restaurant | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 57% | 1.1 |
| PPL | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Restaurant | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 57% | 1.1 |
| PPL | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Restaurant | Cooking | Early | steamer | 51 | 46% | 0.00 | 12 | \$5,103 | 81% | 0.0 |
| PPL | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Restaurant | Cooking | New | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| PPL | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Restaurant | Cooking | ROB | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| PPL | Electric combination oven (Energy Star) | Standard Oven | Restaurant | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 73% | 2.9 |
| PPL | Electric combination oven (Energy Star) | Standard Oven | Restaurant | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 73% | 2.9 |
| PPL | Electric Convection Oven | Conventional convection oven w/ 65% efficiency | Restaurant | Cooking | Early | oven | 8,641 | 37% | 0.6 | 12 | \$4,169 | 81% | 0.4 |
| PPL | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Restaurant | Cooking | New | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.7 |
| PPL | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Restaurant | Cooking | ROB | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.7 |
| PPL | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Restaurant | Cooking | Early | fryer | 6,105 | 23% | 0.3 | 12 | \$9,291 | 86% | 0.1 |
| PPL | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Restaurant | Cooking | New | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| PPL | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Restaurant | Cooking | ROB | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| PPL | High Efficiency Griddle (ENERGY STAR) | Efficiency code minimum griddle (70% eff) | Restaurant | Cooking | Early | griddle | 11,317 | 65% | 1.4 | 12 | \$4,992 | 86% | 0.8 |
| PPL | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Restaurant | Cooking | New | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.2 |
| PPL | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Restaurant | Cooking | ROB | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.2 |
| PPL | High Efficiency Induction Cooking | Standard Cooking | Restaurant | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 76% | 0.1 |
| PPL | High Efficiency Induction Cooking | Standard Cooking | Restaurant | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 76% | 0.1 |
| PPL | Solid-state temperature controls | No Solid State Controls | Restaurant | Cooking | Existing | building | 35,865 | 3.6% | 0.04 | 12 | \$161 | 32% | 3.7 |
| PPL | Adding reflective roof treatment | Std color roof | Restaurant | Cooling Central | Existing | building | 2,801 | 7.0% | 0.07 | 6 | \$19,783 | 82% | 0.0 |
| PPL | Adding reflective roof treatment | Std color roof | Restaurant | Cooling Central | New | building | 2,801 | 7.0% | 0.07 | 6 | \$19,783 | 82% | 0.0 |
| PPL | Adding window shade film | No shade film | Restaurant | Cooling Central | Existing | building | 2,801 | 1.3% | 0.4 | 10 | \$34 | 12% | 6.2 |
| PPL | Adding window shade film | No shade film | Restaurant | Cooling Central | New | building | 2,801 | 1.3% | 0.4 | 10 | \$34 | 13% | 6.2 |
| PPL | Adding window shade screen | No shade screen | Restaurant | Cooling Central | Existing | building | 2,801 | 1.0% | 0.01 | 10 | \$13 | 13% | 1.2 |
| PPL | Adding window shade screen | No shade screen | Restaurant | Cooling Central | New | building | 2,801 | 1.1% | 0.01 | 10 | \$13 | 13% | 1.2 |
| PPL | Automated control system | Manual Controls | Restaurant | Cooling Central | Existing | building | 2,801 | 17% | 0.2 | 15 | \$3,066 | 51% | 0.1 |
| PPL | Automated control system | Manual Controls | Restaurant | Cooling Central | New | building | 2,801 | 17% | 0.2 | 15 | \$3,066 | 94% | 0.1 |
| PPL | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Restaurant | Cooling Central | Existing | building | 2,801 | 8.9% | 0.09 | 15 | \$26,661 | 71% | 0.0 |
| PPL | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Restaurant | Cooling Central | New | building | 2,801 | 3.0% | 0.03 | 15 | \$25,342 | 94% | 0.0 |
| PPL | Chiller Tuneup/Diagnostics | No tuneup | Restaurant | Cooling Central | Existing | building | 2,801 | 8.0% | 0.08 | 10 | \$7,151 | 59% | 0.0 |
| PPL | Chiller Tuneup/Diagnostics | No tuneup | Restaurant | Cooling Central | New | building | 2,801 | 8.0% | 0.08 | 10 | \$7,151 | 59% | 0.0 |
| PPL | Commercial energy recovery ventilation systems | No Commercial Recovery System | Restaurant | Cooling Central | Existing | building | 2,801 | 16% | 0.2 | 14 | \$2,531 | 71% | 0.1 |
| PPL | Cooling Tower Optimization | No Cooling Tower Optimization | Restaurant | Cooling Central | Existing | building | 2,801 | 20% | 0.2 | 10 | \$17 | 69% | 17.7 |
| PPL | Duct Insulation, Add R8 | No Insulation | Restaurant | Cooling Central | Existing | building | 2,801 | 1.4% | 0.04 | 15 | \$22 | 20% | 2.2 |
| PPL | Duct Insulation, Add R8 | No Insulation | Restaurant | Cooling Central | New | building | 2,801 | 1.4% | 0.04 | 15 | \$22 | 10% | 2.2 |
| PPL | Facility Commissioning | No Facility Commissioning | Restaurant | Cooling Central | New | building | 2,801 | 16% | 0.2 | 10 | \$7,984 | 89% | 0.0 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Restaurant | Cooling Central | Existing | building | 2,801 | 7.0% | 0.07 | 15 | \$12,423 | 25% | 0.0 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Restaurant | Cooling Central | New | building | 2,801 | 7.0% | 0.07 | 15 | \$12,423 | 35% | 0.0 |
| PPL | Hi Eff HVAC System Design | No HVAC Design | Restaurant | Cooling Central | New | building | 2,801 | 12% | 0.1 | 10 | \$112,834 | 51% | 0.0 |
| PPL | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | Early | ton | 4,365 | 24% | 0.4 | 15 | \$108,550 | 88% | 0.0 |
| PPL | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | New | ton | 3,568 | 6.7% | 0.08 | 15 | \$12,927 | 88% | 0.0 |
| PPL | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | ROB | ton | 3,568 | 6.7% | 0.08 | 15 | \$12,927 | 88% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|--|------------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | Early | ton | 6,522 | 23% | 0.5 | 15 | \$140,105 | 88% | 0.0 |
| PPL | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | New | ton | 5,247 | 4.9% | 0.09 | 15 | \$9,336 | 88% | 0.0 |
| PPL | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | ROB | ton | 5,247 | 4.9% | 0.09 | 15 | \$9,336 | 88% | 0.0 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | Early | ton | 53,390 | 26% | 4.8 | 15 | \$105,354 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | New | ton | 46,518 | 15% | 2.4 | 15 | \$30,530 | 88% | 0.2 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | ROB | ton | 46,518 | 15% | 2.4 | 15 | \$30,530 | 88% | 0.2 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | Early | ton | 79,963 | 23% | 6.4 | 15 | \$154,107 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | New | ton | 73,456 | 16% | 4.1 | 15 | \$27,646 | 88% | 0.3 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | ROB | ton | 79,963 | 23% | 6.4 | 15 | \$27,646 | 88% | 0.5 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | Early | ton | 132,804 | 23% | 10.4 | 15 | \$302,924 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | New | ton | 120,197 | 14% | 6.0 | 15 | \$115,432 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | ROB | ton | 132,804 | 23% | 10.4 | 15 | \$115,432 | 88% | 0.2 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | Early | ton | 159,365 | 23% | 12.5 | 15 | \$350,154 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | New | ton | 144,236 | 14% | 7.3 | 15 | \$120,406 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | ROB | ton | 159,365 | 23% | 12.5 | 15 | \$120,406 | 88% | 0.2 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | Early | ton | 35,325 | 29% | 3.6 | 15 | \$83,632 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | New | ton | 27,429 | 9.0% | 0.9 | 15 | \$40,211 | 88% | 0.0 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | ROB | ton | 35,325 | 29% | 3.6 | 15 | \$40,211 | 88% | 0.2 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | Early | ton | 60,696 | 35% | 7.3 | 15 | \$132,173 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | New | ton | 45,269 | 13% | 2.0 | 15 | \$39,556 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | ROB | ton | 45,269 | 13% | 2.0 | 15 | \$39,556 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | Early | ton | 101,337 | 39% | 13.8 | 15 | \$187,029 | 88% | 0.2 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | New | ton | 72,252 | 15% | 3.7 | 15 | \$33,554 | 88% | 0.2 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | ROB | ton | 101,337 | 39% | 13.8 | 15 | \$33,554 | 88% | 0.9 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | Early | ton | 17,733 | 30% | 1.8 | 15 | \$32,398 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | New | ton | 14,049 | 11% | 0.5 | 15 | \$7,188 | 88% | 0.2 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Restaurant | Cooling Central | ROB | ton | 17,733 | 30% | 1.8 | 15 | \$7,188 | 88% | 0.6 |
| PPL | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Restaurant | Cooling Central | Existing | building | 2,801 | 3.5% | 0.04 | 10 | \$2,513 | 81% | 0.0 |
| PPL | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) HVAC system w/ Manual Thermostat (Code Min Eff) | Restaurant | Cooling Central | New | building | 2,801 | 3.5% | 0.04 | 10 | \$2,513 | 81% | 0.0 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Restaurant | Cooling Central | Existing | building | 2,801 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.1 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Restaurant | Cooling Central | New | building | 2,801 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.2 |
| PPL | Re-Commissioning (Existing Construction) | No Re-Commissioning | Restaurant | Cooling Central | Existing | building | 2,801 | 16% | 0.2 | 5 | \$12,732 | 86% | 0.0 |
| PPL | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Restaurant | Cooling Central | Existing | building | 2,801 | 12% | 0.1 | 15 | \$6,404 | 26% | 0.0 |
| PPL | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Restaurant | Cooling Central | New | building | 2,801 | 0.5% | 0.01 | 15 | \$4,912 | 94% | 0.0 |
| PPL | <65k BTU/hr 14 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Restaurant | Cooling Unitary | Early | ton | 1,682 | 16% | 0.2 | 15 | \$1,545 | 29% | 0.2 |
| PPL | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Restaurant | Cooling Unitary | New | ton | 1,523 | 7.1% | 0.07 | 15 | \$339 | 29% | 0.3 |
| PPL | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Restaurant | Cooling Unitary | ROB | ton | 1,523 | 7.1% | 0.07 | 15 | \$339 | 29% | 0.3 |
| PPL | <65k BTU/hr 15 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Restaurant | Cooling Unitary | Early | ton | 1,682 | 22% | 0.1 | 15 | \$1,821 | 30% | 0.2 |
| PPL | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Restaurant | Cooling Unitary | New | ton | 1,523 | 13% | 0.2 | 15 | \$714 | 30% | 0.4 |
| PPL | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Restaurant | Cooling Unitary | ROB | ton | 1,523 | 13% | 0.2 | 15 | \$714 | 30% | 0.4 |
| PPL | <65k BTU/hr 16 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Restaurant | Cooling Unitary | Early | ton | 1,682 | 26% | 0.3 | 15 | \$2,098 | 31% | 0.2 |
| PPL | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Restaurant | Cooling Unitary | New | ton | 1,523 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.3 |
| PPL | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Restaurant | Cooling Unitary | ROB | ton | 1,523 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.3 |
| PPL | >760k min 10.2 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Restaurant | Cooling Unitary | Early | ton | 42,547 | 3.7% | 1.1 | 15 | \$68,066 | 56% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|---|------------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Restaurant | Cooling Unitary | New | ton | 43,093 | 4.9% | 1.4 | 15 | \$6,231 | 56% | 0.3 |
| PPL | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Restaurant | Cooling Unitary | ROB | ton | 43,093 | 4.9% | 1.4 | 15 | \$6,231 | 56% | 0.3 |
| PPL | 135-240k min 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Restaurant | Cooling Unitary | Early | ton | 10,728 | 18% | 1.3 | 15 | \$18,135 | 79% | 0.1 |
| PPL | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Restaurant | Cooling Unitary | New | ton | 9,759 | 10.0% | 0.6 | 15 | \$1,948 | 79% | 0.5 |
| PPL | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Restaurant | Cooling Unitary | ROB | ton | 9,759 | 10.0% | 0.6 | 15 | \$1,948 | 79% | 0.5 |
| PPL | 240k-760k min 11 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Restaurant | Cooling Unitary | Early | ton | 27,992 | 9.0% | 1.7 | 15 | \$44,809 | 66% | 0.1 |
| PPL | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Restaurant | Cooling Unitary | New | ton | 28,061 | 9.3% | 1.8 | 15 | \$4,813 | 66% | 0.6 |
| PPL | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Restaurant | Cooling Unitary | ROB | ton | 28,061 | 9.3% | 1.8 | 15 | \$4,813 | 66% | 0.6 |
| PPL | 65k-135k BTU/hr 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Restaurant | Cooling Unitary | Early | ton | 6,171 | 17% | 0.7 | 15 | \$10,946 | 86% | 0.1 |
| PPL | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Restaurant | Cooling Unitary | New | ton | 5,500 | 6.7% | 0.3 | 15 | \$1,392 | 86% | 0.3 |
| PPL | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Restaurant | Cooling Unitary | ROB | ton | 5,500 | 6.7% | 0.3 | 15 | \$1,392 | 86% | 0.3 |
| PPL | Adding reflective roof treatment | Std color roof | Restaurant | Cooling Unitary | Existing | building | 25,983 | 7.0% | 0.07 | 6 | \$19,783 | 82% | 0.0 |
| PPL | Adding reflective roof treatment | Std color roof | Restaurant | Cooling Unitary | New | building | 25,983 | 7.1% | 0.07 | 6 | \$19,783 | 82% | 0.0 |
| PPL | Adding window shade film | No shade film | Restaurant | Cooling Unitary | Existing | building | 25,983 | 1.3% | 0.4 | 10 | \$316 | 12% | 1.0 |
| PPL | Adding window shade film | No shade film | Restaurant | Cooling Unitary | New | building | 25,983 | 1.3% | 0.4 | 10 | \$316 | 13% | 1.0 |
| PPL | Adding window shade screen | No shade screen | Restaurant | Cooling Unitary | Existing | building | 25,983 | 1.1% | 0.01 | 10 | \$122 | 12% | 0.9 |
| PPL | Adding window shade screen | No shade screen | Restaurant | Cooling Unitary | New | building | 25,983 | 1.1% | 0.01 | 10 | \$122 | 13% | 0.9 |
| PPL | Automated control system | Manual Controls | Restaurant | Cooling Unitary | Existing | building | 25,983 | 17% | 0.2 | 15 | \$28,445 | 51% | 0.1 |
| PPL | Automated control system | Manual Controls | Restaurant | Cooling Unitary | New | building | 25,983 | 17% | 0.2 | 15 | \$28,445 | 94% | 0.1 |
| PPL | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Restaurant | Cooling Unitary | Existing | building | 25,983 | 8.9% | 0.09 | 15 | \$26,661 | 71% | 0.0 |
| PPL | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Restaurant | Cooling Unitary | New | building | 25,983 | 3.0% | 0.03 | 15 | \$25,342 | 94% | 0.0 |
| PPL | Commercial energy recovery ventilation systems | No Commercial Recovery System | Restaurant | Cooling Unitary | Existing | building | 25,983 | 16% | 0.2 | 14 | \$23,480 | 71% | 0.1 |
| PPL | Duct Insulation, Add R8 | No Insulation | Restaurant | Cooling Unitary | Existing | building | 25,983 | 1.4% | 0.04 | 15 | \$206 | 20% | 1.1 |
| PPL | Duct Insulation, Add R8 | No Insulation | Restaurant | Cooling Unitary | New | building | 25,983 | 1.4% | 0.04 | 15 | \$206 | 10% | 1.1 |
| PPL | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Restaurant | Cooling Unitary | Existing | building | 14,199 | 13% | 0.1 | 1 | \$136 | 73% | 0.8 |
| PPL | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Restaurant | Cooling Unitary | New | building | 14,199 | 13% | 0.1 | 1 | \$136 | 73% | 0.8 |
| PPL | ECM Motors for split systems | Std Shaded Pole Motor | Restaurant | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.6 |
| PPL | ECM Motors for split systems | Std Shaded Pole Motor | Restaurant | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.6 |
| PPL | Facility Commissioning | No Facility Commissioning | Restaurant | Cooling Unitary | New | building | 25,983 | 16% | 0.2 | 10 | \$422 | 89% | 3.8 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Restaurant | Cooling Unitary | Existing | building | 25,983 | 7.1% | 0.07 | 15 | \$115,255 | 25% | 0.0 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Restaurant | Cooling Unitary | New | building | 25,983 | 7.0% | 0.07 | 15 | \$115,255 | 35% | 0.0 |
| PPL | Hi Eff HVAC System Design | No HVAC Design | Restaurant | Cooling Unitary | New | building | 25,983 | 12% | 0.1 | 10 | \$1,509 | 51% | 0.8 |
| PPL | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Restaurant | Cooling Unitary | Existing | building | 25,983 | 5.0% | 0.05 | 5 | \$225 | 59% | 1.3 |
| PPL | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Restaurant | Cooling Unitary | Existing | building | 25,983 | 3.5% | 0.04 | 10 | \$2,701 | 86% | 0.1 |
| PPL | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Restaurant | Cooling Unitary | New | building | 25,983 | 3.5% | 0.04 | 10 | \$2,701 | 86% | 0.1 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) | Restaurant | Cooling Unitary | Existing | building | 25,983 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.8 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Restaurant | Cooling Unitary | New | building | 25,983 | 1.7% | 0.02 | 11 | \$146 | 49% | 1.3 |
| PPL | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Restaurant | Cooling Unitary | Early | unit | 569 | 19% | 0.08 | 15 | \$849 | 85% | 0.1 |
| PPL | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Restaurant | Cooling Unitary | New | unit | 575 | 20% | 0.08 | 15 | \$356 | 85% | 0.3 |
| PPL | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Restaurant | Cooling Unitary | ROB | unit | 575 | 20% | 0.08 | 15 | \$356 | 85% | 0.3 |
| PPL | Re-Commissioning (Existing Construction) | No Re-Commissioning | Restaurant | Cooling Unitary | Existing | building | 25,983 | 16% | 0.2 | 5 | \$12,732 | 86% | 0.1 |
| PPL | Room AC (w/ louvered sides) | Exisiting efficiency Room AC in Pennsylvania (2000 Federal Standards) | Restaurant | Cooling Unitary | Early | ton | 794 | 13% | 0.04 | 9 | \$348 | 82% | 0.2 |
| PPL | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Restaurant | Cooling Unitary | New | ton | 720 | 4.5% | 0.01 | 9 | \$17 | 82% | 0.9 |
| PPL | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Restaurant | Cooling Unitary | ROB | ton | 720 | 4.5% | 0.01 | 9 | \$17 | 82% | 0.9 |
| PPL | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Restaurant | Cooling Unitary | Existing | building | 25,983 | 12% | 0.1 | 15 | \$6,404 | 26% | 0.3 |
| PPL | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Restaurant | Cooling Unitary | New | building | 25,983 | 0.5% | 0.01 | 15 | \$4,912 | 94% | 0.0 |
| PPL | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Restaurant | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 1.1 |
| PPL | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Restaurant | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.5 |
| PPL | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Restaurant | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.5 |
| PPL | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Restaurant | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 0% | 0.2 |
| PPL | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Restaurant | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| PPL | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Restaurant | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| PPL | LED exterior lighting | 250 Watt Incandescent | Restaurant | Ext. Lighting | ROB | measure | 515 | 83% | 0.1 | 15 | \$104 | 89% | 3.0 |
| PPL | LED exterior lighting | 250 Watt Incandescent | Restaurant | Ext. Lighting | ROB | measure | 515 | 83% | 0.1 | 15 | \$104 | 89% | 3.0 |
| PPL | LED exterior lighting | 250 Watt Incandescent | Restaurant | Ext. Lighting | ROB | measure | 515 | 83% | 0.1 | 15 | \$104 | 89% | 3.0 |
| PPL | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Restaurant | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 75% | 0.3 |
| PPL | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Restaurant | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 75% | 0.2 |
| PPL | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Restaurant | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.8 |
| PPL | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Restaurant | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.1 |
| PPL | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Restaurant | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.8 |
| PPL | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Restaurant | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.1 |
| PPL | Photocell Controls (Outdoor) | Lighting w/ No Controls | Restaurant | Ext. Lighting | Existing | building | 303 | 28% | 0.3 | 8 | \$891 | 88% | 0.2 |
| PPL | Photocell Controls (Outdoor) | Lighting w/ No Controls | Restaurant | Ext. Lighting | New | building | 303 | 28% | 0.3 | 8 | \$891 | 0% | 0.2 |
| PPL | Adding reflective roof treatment | Std color roof | Restaurant | Heat Pump | Existing | building | 2,003 | 6.9% | 0.07 | 6 | \$19,783 | 82% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|---|------------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Adding reflective roof treatment | Std color roof | Restaurant | Heat Pump | New | building | 2,003 | 6.9% | 0.07 | 6 | \$19,783 | 82% | 0.0 |
| PPL | Adding window shade film | No shade film | Restaurant | Heat Pump | Existing | building | 2,003 | 3.9% | 0.4 | 10 | \$24 | 12% | 9.3 |
| PPL | Adding window shade film | No shade film | Restaurant | Heat Pump | New | building | 2,003 | 3.9% | 0.4 | 10 | \$24 | 12% | 9.3 |
| PPL | Adding window shade screen | No shade screen | Restaurant | Heat Pump | Existing | building | 2,003 | 0.3% | 0.01 | 10 | \$9.4 | 12% | 1.4 |
| PPL | Adding window shade screen | No shade screen | Restaurant | Heat Pump | New | building | 2,003 | 0.3% | 0.01 | 10 | \$9.4 | 12% | 1.4 |
| PPL | Automated control system | Manual Controls | Restaurant | Heat Pump | Existing | building | 2,003 | 17% | 0.2 | 15 | \$2,192 | 51% | 0.1 |
| PPL | Automated control system | Manual Controls | Restaurant | Heat Pump | New | building | 2,003 | 17% | 0.2 | 15 | \$2,192 | 94% | 0.1 |
| PPL | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Restaurant | Heat Pump | Existing | building | 2,003 | 8.9% | 0.09 | 15 | \$26,661 | 71% | 0.0 |
| PPL | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Restaurant | Heat Pump | New | building | 2,003 | 3.0% | 0.03 | 15 | \$25,342 | 94% | 0.0 |
| PPL | Commercial energy recovery ventilation systems | No Commercial Recovery System | Restaurant | Heat Pump | Existing | building | 2,003 | 16% | 0.2 | 14 | \$1,062,660 | 71% | 0.0 |
| PPL | Duct Insulation, Add R8 | No Insulation | Restaurant | Heat Pump | Existing | building | 2,003 | 4.0% | 0.04 | 15 | \$16 | 12% | 4.5 |
| PPL | Duct Insulation, Add R8 | No Insulation | Restaurant | Heat Pump | New | building | 2,003 | 4.0% | 0.04 | 15 | \$16 | 6% | 4.5 |
| PPL | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Restaurant | Heat Pump | Early | heat pump | 2,243 | 11% | 0.02 | 15 | \$4,070 | 83% | 0.0 |
| PPL | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Restaurant | Heat Pump | New | heat pump | 2,167 | 8.0% | 0.02 | 15 | \$1,097 | 83% | 0.1 |
| PPL | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Restaurant | Heat Pump | ROB | heat pump | 2,167 | 8.0% | 0.02 | 15 | \$1,097 | 83% | 0.1 |
| PPL | Facility Commissioning | No Facility Commissioning | Restaurant | Heat Pump | New | building | 2,003 | 16% | 0.2 | 10 | \$7,984 | 89% | 0.0 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Restaurant | Heat Pump | Existing | building | 2,003 | 7.0% | 0.07 | 15 | \$8,883 | 25% | 0.0 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Restaurant | Heat Pump | New | building | 2,003 | 7.0% | 0.07 | 15 | \$8,883 | 35% | 0.0 |
| PPL | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Restaurant | Heat Pump | Early | heat pump | 22,590 | 13% | 0.3 | 15 | \$91,117 | 19% | 0.0 |
| PPL | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Restaurant | Heat Pump | New | heat pump | 22,016 | 11% | 0.2 | 15 | \$33,927 | 19% | 0.0 |
| PPL | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Restaurant | Heat Pump | ROB | heat pump | 22,016 | 11% | 0.2 | 15 | \$33,927 | 19% | 0.0 |
| PPL | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Restaurant | Heat Pump | Early | heat pump | 22,590 | 13% | 0.3 | 15 | \$58,356 | 19% | 0.0 |
| PPL | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Restaurant | Heat Pump | New | heat pump | 22,016 | 11% | 0.2 | 15 | \$1,167 | 19% | 1.2 |
| PPL | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Restaurant | Heat Pump | ROB | heat pump | 22,016 | 11% | 0.2 | 15 | \$1,167 | 19% | 1.2 |
| PPL | Hi Eff HVAC System Design | No HVAC Design | Restaurant | Heat Pump | New | building | 2,003 | 12% | 0.1 | 10 | \$112,834 | 51% | 0.0 |
| PPL | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Restaurant | Heat Pump | Early | heat pump | 5,981 | 15% | 0.08 | 12 | \$4,298 | 81% | 0.1 |
| PPL | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Restaurant | Heat Pump | Early | heat pump | 5,981 | 26% | 0.1 | 12 | \$5,883 | 81% | 0.1 |
| PPL | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Restaurant | Heat Pump | New | heat pump | 5,779 | 12% | 0.06 | 12 | \$852 | 81% | 0.4 |
| PPL | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Restaurant | Heat Pump | New | heat pump | 5,779 | 24% | 0.1 | 12 | \$2,437 | 81% | 0.3 |
| PPL | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Restaurant | Heat Pump | ROB | heat pump | 5,779 | 12% | 0.06 | 12 | \$852 | 81% | 0.4 |
| PPL | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Restaurant | Heat Pump | ROB | heat pump | 5,779 | 24% | 0.1 | 12 | \$2,437 | 81% | 0.3 |
| PPL | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Restaurant | Heat Pump | Existing | building | 2,003 | 3.5% | 0.04 | 10 | \$2,405 | 81% | 0.0 |
| PPL | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Restaurant | Heat Pump | New | building | 2,003 | 3.5% | 0.04 | 10 | \$2,405 | 81% | 0.0 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Restaurant | Heat Pump | Existing | building | 2,003 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.1 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Restaurant | Heat Pump | New | building | 2,003 | 2.1% | 0.02 | 11 | \$146 | 49% | 0.2 |
| PPL | Re-Commissioning (Existing Construction) | No Re-Commissioning | Restaurant | Heat Pump | Existing | building | 2,003 | 16% | 0.2 | 5 | \$12,732 | 86% | 0.0 |
| PPL | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Restaurant | Heat Pump | New | measure | 2,695,700 | 2.0% | 6.2 | 13 | \$339,358 | 43% | 0.1 |
| PPL | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Restaurant | Heat Pump | ROB | measure | 2,695,700 | 2.0% | 6.2 | 13 | \$339,358 | 43% | 0.1 |
| PPL | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Restaurant | Heat Pump | Existing | building | 2,003 | 12% | 0.1 | 15 | \$6,404 | 26% | 0.0 |
| PPL | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Restaurant | Heat Pump | New | building | 2,003 | 0.5% | 0.01 | 15 | \$4,912 | 94% | 0.0 |
| PPL | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Restaurant | Heat Pump | Early | heat pump | 9,859 | 39% | 0.3 | 15 | \$35,347 | 28% | 0.1 |
| PPL | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Restaurant | Heat Pump | New | heat pump | 9,533 | 37% | 0.3 | 15 | \$15,739 | 28% | 0.1 |
| PPL | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Restaurant | Heat Pump | ROB | heat pump | 9,533 | 37% | 0.3 | 15 | \$15,739 | 28% | 0.1 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | Early | Fixture | 1,000 | 9.6% | 0.02 | 13 | \$875 | 39% | 0.1 |
| PPL | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Restaurant | High Bay Lighting | Early | Fixture | 999 | 9.5% | 0.02 | 13 | \$875 | 28% | 0.1 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Restaurant | High Bay Lighting | Early | Fixture | 1,542 | 41% | 0.1 | 13 | \$875 | 36% | 0.5 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | New | Fixture | 760 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Restaurant | High Bay Lighting | New | Fixture | 707 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Restaurant | High Bay Lighting | New | Fixture | 1,172 | 41% | 0.09 | 13 | \$397 | 36% | 0.8 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 1,000 | 9.6% | 0.02 | 13 | \$372 | 39% | 0.2 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 930 | 2.9% | 0.01 | 13 | \$338 | 28% | 0.0 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 1,542 | 41% | 0.1 | 13 | \$397 | 36% | 1.0 |
| PPL | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | Early | Fixture | 1,941 | 19% | 0.07 | 13 | \$877 | 38% | 0.3 |
| PPL | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Restaurant | High Bay Lighting | Early | Fixture | 1,965 | 20% | 0.08 | 13 | \$877 | 38% | 0.3 |
| PPL | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | Early | Fixture | 5,715 | 73% | 0.8 | 13 | \$877 | 38% | 3.0 |
| PPL | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | New | Fixture | 1,475 | 19% | 0.05 | 13 | \$372 | 38% | 0.5 |
| PPL | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | New | Fixture | 4,344 | 73% | 0.6 | 13 | \$383 | 38% | 5.1 |
| PPL | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 1,941 | 19% | 0.07 | 13 | \$372 | 38% | 0.6 |
| PPL | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 5,715 | 73% | 0.8 | 13 | \$383 | 38% | 6.8 |
| PPL | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | Early | Fixture | 1,941 | 25% | 0.09 | 13 | \$580 | 29% | 0.5 |
| PPL | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Restaurant | High Bay Lighting | Early | Fixture | 1,905 | 23% | 0.09 | 13 | \$580 | 28% | 0.5 |
| PPL | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | Early | Fixture | 5,715 | 74% | 0.8 | 13 | \$580 | 36% | 4.6 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|---|------------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | New | Fixture | 1,475 | 25% | 0.07 | 13 | \$75 | 29% | 3.0 |
| PPL | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | New | Fixture | 4,344 | 74% | 0.6 | 13 | \$86 | 36% | 23.5 |
| PPL | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 1,941 | 25% | 0.09 | 13 | \$75 | 29% | 4.0 |
| PPL | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 5,715 | 74% | 0.8 | 13 | \$86 | 36% | 30.9 |
| PPL | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Restaurant | High Bay Lighting | Early | Fixture | 506 | 0.2% | 0.00 | 13 | \$861 | 38% | 0.0 |
| PPL | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Restaurant | High Bay Lighting | Early | Fixture | 1,090 | 54% | 0.1 | 13 | \$861 | 38% | 0.4 |
| PPL | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Restaurant | High Bay Lighting | New | Fixture | 828 | 54% | 0.09 | 13 | \$382 | 38% | 0.7 |
| PPL | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 1,090 | 54% | 0.1 | 13 | \$382 | 38% | 1.0 |
| PPL | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | Early | Fixture | 2,472 | 18% | 0.09 | 13 | \$512 | 25% | 0.6 |
| PPL | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Restaurant | High Bay Lighting | Early | Fixture | 2,585 | 22% | 0.1 | 13 | \$512 | 28% | 0.7 |
| PPL | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | Early | Fixture | 5,715 | 65% | 0.7 | 13 | \$512 | 36% | 4.5 |
| PPL | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | New | Fixture | 1,879 | 18% | 0.07 | 13 | \$16 | 25% | 13.1 |
| PPL | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | New | Fixture | 4,344 | 65% | 0.5 | 13 | \$18 | 36% | 95.2 |
| PPL | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 2,472 | 18% | 0.09 | 13 | \$16 | 25% | 17.3 |
| PPL | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 5,715 | 65% | 0.7 | 13 | \$18 | 36% | 125.3 |
| PPL | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | Early | Fixture | 2,472 | 1.5% | 0.01 | 13 | \$582 | 19% | 0.0 |
| PPL | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Restaurant | High Bay Lighting | Early | Fixture | 2,545 | 4.3% | 0.02 | 13 | \$582 | 19% | 0.1 |
| PPL | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | Early | Fixture | 5,715 | 57% | 0.6 | 13 | \$582 | 19% | 3.5 |
| PPL | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | New | Fixture | 1,879 | 1.5% | 0.01 | 13 | \$86 | 19% | 0.2 |
| PPL | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | New | Fixture | 4,344 | 57% | 0.5 | 13 | \$88 | 19% | 17.6 |
| PPL | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 2,472 | 1.5% | 0.01 | 13 | \$86 | 19% | 0.3 |
| PPL | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 5,715 | 57% | 0.6 | 13 | \$88 | 19% | 23.2 |
| PPL | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Restaurant | High Bay Lighting | Early | Fixture | 1,050 | 29% | 0.04 | 13 | \$517 | 71% | 0.3 |
| PPL | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | Early | Fixture | 878 | 15% | 0.02 | 13 | \$517 | 95% | 0.2 |
| PPL | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Restaurant | High Bay Lighting | Early | Fixture | 1,304 | 43% | 0.08 | 13 | \$517 | 95% | 0.6 |
| PPL | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Restaurant | High Bay Lighting | Early | Fixture | 1,209 | 38% | 0.06 | 13 | \$517 | 95% | 0.5 |
| PPL | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | New | Fixture | 667 | 15% | 0.01 | 13 | \$25 | 95% | 2.4 |
| PPL | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Restaurant | High Bay Lighting | New | Fixture | 991 | 43% | 0.06 | 13 | \$51 | 95% | 4.8 |
| PPL | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 878 | 15% | 0.02 | 13 | \$25 | 95% | 3.1 |
| PPL | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 1,304 | 43% | 0.08 | 13 | \$51 | 95% | 6.4 |
| PPL | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Restaurant | High Bay Lighting | Early | lamp | 120 | 16% | 0.00 | 9 | \$8.7 | 99% | 1.0 |
| PPL | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Restaurant | High Bay Lighting | New | lamp | 72 | 13% | 0.00 | 9 | \$1.6 | 91% | 2.5 |
| PPL | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Restaurant | High Bay Lighting | ROB | lamp | 116 | 13% | 0.00 | 9 | \$1.6 | 91% | 4.0 |
| PPL | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | Early | Fixture | 5,848 | 23% | 0.3 | 13 | \$639 | 5% | 1.3 |
| PPL | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Restaurant | High Bay Lighting | Early | Fixture | 4,595 | 1.6% | 0.01 | 13 | \$639 | 28% | 0.1 |
| PPL | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | Early | Fixture | 11,431 | 60% | 1.3 | 13 | \$639 | 18% | 6.8 |
| PPL | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | New | Fixture | 4,445 | 23% | 0.2 | 13 | \$96 | 5% | 6.5 |
| PPL | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 5,848 | 23% | 0.3 | 13 | \$96 | 5% | 8.6 |
| PPL | Auto Off Time Switch | Lighting w/ No Controls | Restaurant | High Bay Lighting | Existing | building | 346 | 24% | 0.2 | 8 | \$181 | 13% | 0.7 |
| PPL | Auto Off Time Switch | Lighting w/ No Controls | Restaurant | High Bay Lighting | New | building | 346 | 6.9% | 0.07 | 8 | \$181 | 0% | 0.2 |
| PPL | Central Lighting Control System | Lighting w/ No Controls | Restaurant | High Bay Lighting | Existing | building | 346 | 38% | 0.4 | 8 | \$181 | 13% | 1.2 |
| PPL | Central Lighting Control System | Lighting w/ No Controls | Restaurant | High Bay Lighting | New | building | 346 | 14% | 0.1 | 8 | \$181 | 13% | 0.4 |
| PPL | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Restaurant | High Bay Lighting | New | building | 346 | 10% | 0.1 | 15 | \$46,260 | 32% | 0.0 |
| PPL | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Restaurant | High Bay Lighting | New | building | 346 | 15% | 0.2 | 15 | \$115,651 | 32% | 0.0 |
| PPL | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Restaurant | High Bay Lighting | New | building | 346 | 30% | 0.3 | 15 | \$165,766 | 32% | 0.0 |
| PPL | Indoor Daylight Sensors | Lighting w/ No Controls | Restaurant | High Bay Lighting | Existing | building | 346 | 28% | 0.3 | 8 | \$891 | 13% | 0.2 |
| PPL | Indoor Daylight Sensors | Lighting w/ No Controls | Restaurant | High Bay Lighting | New | building | 346 | 4.0% | 0.04 | 8 | \$891 | 0% | 0.0 |
| PPL | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | Early | Fixture | 5,848 | 92% | 1.0 | 13 | \$1,941 | 95% | 1.7 |
| PPL | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | Early | Fixture | 11,431 | 96% | 2.1 | 13 | \$1,941 | 95% | 3.5 |
| PPL | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | New | Fixture | 4,445 | 92% | 0.8 | 13 | \$1,468 | 95% | 1.7 |
| PPL | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | New | Fixture | 8,687 | 96% | 1.6 | 13 | \$1,149 | 95% | 4.5 |
| PPL | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 5,848 | 92% | 1.0 | 13 | \$1,468 | 95% | 2.3 |
| PPL | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 11,431 | 96% | 2.1 | 13 | \$1,149 | 95% | 6.0 |
| PPL | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | Early | Fixture | 1,941 | 67% | 0.3 | 13 | \$985 | 95% | 0.8 |
| PPL | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Restaurant | High Bay Lighting | Early | Fixture | 5,715 | 89% | 1.0 | 13 | \$985 | 95% | 3.2 |
| PPL | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Restaurant | High Bay Lighting | Early | Fixture | 1,568 | 59% | 0.2 | 13 | \$985 | 95% | 0.6 |
| PPL | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | New | Fixture | 1,475 | 67% | 0.2 | 13 | \$480 | 95% | 1.3 |
| PPL | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Restaurant | High Bay Lighting | New | Fixture | 4,344 | 89% | 0.7 | 13 | \$491 | 95% | 4.9 |
| PPL | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Restaurant | High Bay Lighting | New | Fixture | 1,192 | 59% | 0.1 | 13 | \$406 | 95% | 1.1 |
| PPL | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 1,941 | 67% | 0.3 | 13 | \$480 | 95% | 1.7 |
| PPL | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 5,715 | 89% | 1.0 | 13 | \$491 | 95% | 6.4 |
| PPL | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Restaurant | High Bay Lighting | ROB | Fixture | 1,568 | 59% | 0.2 | 13 | \$406 | 95% | 1.4 |
| PPL | Occupancy Sensor | Lighting w/ No Controls | Restaurant | High Bay Lighting | Existing | building | 346 | 24% | 0.2 | 8 | \$273 | 12% | 0.5 |
| PPL | Occupancy Sensor | Lighting w/ No Controls | Restaurant | High Bay Lighting | New | building | 346 | 6.9% | 0.07 | 8 | \$273 | 0% | 0.1 |
| PPL | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Restaurant | High Bay Lighting | Existing | building | 346 | 28% | 0.3 | 8 | \$891 | 12% | 0.2 |
| PPL | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Restaurant | High Bay Lighting | New | building | 346 | 4.0% | 0.04 | 8 | \$891 | 0% | 0.0 |
| PPL | Time Clock Control | Lighting w/ No Controls | Restaurant | High Bay Lighting | Existing | building | 346 | 28% | 0.3 | 8 | \$181 | 13% | 0.9 |
| PPL | Time Clock Control | Lighting w/ No Controls | Restaurant | High Bay Lighting | New | building | 346 | 4.1% | 0.04 | 8 | \$181 | 0% | 0.1 |
| PPL | Auto Off Time Switch | Lighting w/ No Controls | Restaurant | Lin. Fluor. Lighting | Existing | building | 8,514 | 24% | 0.2 | 8 | \$181 | 13% | 4.2 |
| PPL | Auto Off Time Switch | Lighting w/ No Controls | Restaurant | Lin. Fluor. Lighting | New | building | 8,514 | 7.0% | 0.07 | 8 | \$181 | 0% | 1.2 |
| PPL | Central Lighting Control System | Lighting w/ No Controls | Restaurant | Lin. Fluor. Lighting | Existing | building | 8,514 | 38% | 0.4 | 8 | \$181 | 12% | 6.7 |
| PPL | Central Lighting Control System | Lighting w/ No Controls | Restaurant | Lin. Fluor. Lighting | New | building | 8,514 | 14% | 0.1 | 8 | \$181 | 12% | 2.5 |
| PPL | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Restaurant | Lin. Fluor. Lighting | New | building | 8,514 | 10% | 0.1 | 15 | \$46,260 | 32% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|--|------------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Restaurant | Lin. Fluor. Lighting | New | building | 8,514 | 15% | 0.2 | 15 | \$115,651 | 32% | 0.0 |
| PPL | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Restaurant | Lin. Fluor. Lighting | New | building | 8,514 | 30% | 0.3 | 15 | \$165,766 | 32% | 0.0 |
| PPL | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Restaurant | Lin. Fluor. Lighting | Early | Lamp | 242 | 38% | 0.01 | 9 | \$8.3 | 94% | 4.8 |
| PPL | Indoor Daylight Sensors | Lighting w/ No Controls | Restaurant | Lin. Fluor. Lighting | Existing | building | 8,514 | 28% | 0.3 | 8 | \$891 | 13% | 1.0 |
| PPL | Indoor Daylight Sensors | Lighting w/ No Controls | Restaurant | Lin. Fluor. Lighting | New | building | 8,514 | 4.1% | 0.04 | 8 | \$891 | 0% | 0.1 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | Early | Lamp | 109 | 19% | 0.00 | 11 | \$36 | 94% | 0.3 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 40W T12 Lamp, Magnetic Ballast | Restaurant | Lin. Fluor. Lighting | Early | Lamp | 240 | 63% | 0.03 | 11 | \$36 | 94% | 2.3 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | Early | Lamp | 135 | 34% | 0.01 | 11 | \$36 | 94% | 0.7 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | Early | Lamp | 131 | 32% | 0.01 | 11 | \$36 | 94% | 0.6 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | New | Lamp | 83 | 19% | 0.00 | 11 | \$28 | 94% | 0.3 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | New | Lamp | 99 | 32% | 0.01 | 11 | \$29 | 94% | 0.6 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | New | Lamp | 102 | 34% | 0.01 | 11 | \$22 | 94% | 0.9 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | New | Lamp | 99 | 32% | 0.01 | 11 | \$29 | 94% | 0.6 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | ROB | Lamp | 109 | 19% | 0.00 | 11 | \$28 | 94% | 0.4 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | ROB | Lamp | 131 | 32% | 0.01 | 11 | \$29 | 94% | 0.8 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | ROB | Lamp | 135 | 34% | 0.01 | 11 | \$22 | 94% | 1.2 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | ROB | Lamp | 131 | 32% | 0.01 | 11 | \$29 | 94% | 0.8 |
| PPL | Occupancy Sensor | Lighting w/ No Controls | Restaurant | Lin. Fluor. Lighting | Existing | building | 8,514 | 24% | 0.2 | 8 | \$273 | 13% | 2.8 |
| PPL | Occupancy Sensor | Lighting w/ No Controls | Restaurant | Lin. Fluor. Lighting | New | building | 8,514 | 7.0% | 0.07 | 8 | \$273 | 0% | 0.8 |
| PPL | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Restaurant | Lin. Fluor. Lighting | Existing | building | 8,514 | 28% | 0.3 | 8 | \$891 | 12% | 1.0 |
| PPL | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Restaurant | Lin. Fluor. Lighting | New | building | 8,514 | 4.1% | 0.04 | 8 | \$891 | 0% | 0.1 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 40W T12 w/ Magnetic Ballast | Restaurant | Lin. Fluor. Lighting | Early | Lamp | 242 | 54% | 0.02 | 9 | \$9.1 | 94% | 6.2 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | Early | Lamp | 155 | 28% | 0.01 | 9 | \$9.1 | 24% | 2.1 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | Early | Lamp | 150 | 26% | 0.01 | 9 | \$9.1 | 94% | 1.8 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | New | Lamp | 114 | 26% | 0.00 | 9 | \$2.5 | 94% | 5.0 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | New | Lamp | 114 | 26% | 0.00 | 9 | \$2.5 | 94% | 5.0 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | New | Lamp | 118 | 28% | 0.00 | 9 | \$2.5 | 24% | 5.6 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | New | Lamp | 114 | 26% | 0.00 | 9 | \$2.5 | 94% | 5.0 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | ROB | Lamp | 150 | 26% | 0.01 | 9 | \$2.5 | 94% | 6.6 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | ROB | Lamp | 150 | 26% | 0.01 | 9 | \$2.5 | 94% | 6.6 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | ROB | Lamp | 155 | 28% | 0.01 | 9 | \$2.5 | 24% | 7.4 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Restaurant | Lin. Fluor. Lighting | ROB | Lamp | 150 | 26% | 0.01 | 9 | \$2.5 | 94% | 6.6 |
| PPL | T8 Lamp (any length) Electronic Ballast | Standard T12 lamp (any length) | Restaurant | Lin. Fluor. Lighting | Early | Lamp | 285 | 42% | 0.02 | 9 | \$15 | 94% | 3.5 |
| PPL | Time Clock Control | Lighting w/ No Controls | Restaurant | Lin. Fluor. Lighting | Existing | building | 8,514 | 28% | 0.3 | 8 | \$181 | 14% | 5.0 |
| PPL | Time Clock Control | Lighting w/ No Controls | Restaurant | Lin. Fluor. Lighting | New | building | 8,514 | 4.1% | 0.04 | 8 | \$181 | 0% | 0.7 |
| PPL | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | Early | motor | 4,241 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.3 |
| PPL | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | Early | motor | 4,241 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.3 |
| PPL | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | Early | motor | 4,241 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.3 |
| PPL | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | Early | motor | 4,241 | 3.6% | 0.02 | 15 | \$374 | 76% | 0.3 |
| PPL | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | New | motor | 4,111 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| PPL | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | New | motor | 4,111 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| PPL | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | New | motor | 4,111 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| PPL | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | New | motor | 4,111 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| PPL | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | ROB | motor | 4,111 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| PPL | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | ROB | motor | 4,111 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| PPL | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | ROB | motor | 4,111 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.3 |
| PPL | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | Early | motor | 6,253 | 3.1% | 0.02 | 15 | \$402 | 76% | 0.3 |
| PPL | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | Early | motor | 6,253 | 3.1% | 0.02 | 15 | \$402 | 76% | 0.3 |
| PPL | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | Early | motor | 6,253 | 3.1% | 0.02 | 15 | \$402 | 76% | 0.3 |
| PPL | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | Early | motor | 6,253 | 3.1% | 0.03 | 15 | \$402 | 76% | 0.3 |
| PPL | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | Early | motor | 6,253 | 3.1% | 0.02 | 15 | \$402 | 76% | 0.3 |
| PPL | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | New | motor | 6,096 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.4 |
| PPL | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | New | motor | 6,096 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.4 |
| PPL | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | New | motor | 6,096 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.4 |
| PPL | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | New | motor | 6,096 | 0.6% | 0.01 | 15 | \$60 | 76% | 0.4 |
| PPL | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | New | motor | 6,096 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.4 |
| PPL | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | ROB | motor | 6,096 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.4 |
| PPL | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | ROB | motor | 6,096 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.4 |
| PPL | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | ROB | motor | 6,096 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.4 |
| PPL | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | ROB | motor | 6,096 | 0.6% | 0.01 | 15 | \$60 | 76% | 0.4 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|--|------------|---------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | New | motor | 28,972 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.8 |
| PPL | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | New | motor | 28,972 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.8 |
| PPL | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | New | motor | 28,972 | 0.6% | 0.02 | 15 | \$123 | 83% | 0.8 |
| PPL | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | New | motor | 28,972 | 0.6% | 0.02 | 15 | \$123 | 83% | 0.9 |
| PPL | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | New | motor | 28,972 | 0.6% | 0.02 | 15 | \$123 | 83% | 0.8 |
| PPL | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | ROB | motor | 28,972 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.8 |
| PPL | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | ROB | motor | 28,972 | 0.5% | 0.02 | 15 | \$123 | 83% | 0.8 |
| PPL | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | ROB | motor | 28,972 | 0.6% | 0.02 | 15 | \$123 | 83% | 0.8 |
| PPL | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | ROB | motor | 28,972 | 0.6% | 0.02 | 15 | \$123 | 83% | 0.9 |
| PPL | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | ROB | motor | 28,972 | 0.6% | 0.02 | 15 | \$123 | 83% | 0.8 |
| PPL | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | Early | motor | 279,826 | 1.4% | 0.5 | 15 | \$3,955 | 61% | 0.6 |
| PPL | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | Early | motor | 279,826 | 1.4% | 0.5 | 15 | \$3,955 | 61% | 0.6 |
| PPL | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | Early | motor | 279,826 | 1.4% | 0.5 | 15 | \$3,955 | 61% | 0.6 |
| PPL | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | Early | motor | 279,826 | 1.4% | 0.6 | 15 | \$3,955 | 61% | 0.6 |
| PPL | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | Early | motor | 279,826 | 1.4% | 0.5 | 15 | \$3,955 | 61% | 0.6 |
| PPL | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | New | motor | 277,519 | 0.6% | 0.2 | 15 | \$554 | 61% | 1.8 |
| PPL | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | New | motor | 277,519 | 0.6% | 0.2 | 15 | \$554 | 61% | 1.8 |
| PPL | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | New | motor | 277,519 | 0.6% | 0.2 | 15 | \$554 | 61% | 1.8 |
| PPL | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | New | motor | 277,519 | 0.6% | 0.2 | 15 | \$554 | 61% | 1.9 |
| PPL | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | New | motor | 277,519 | 0.6% | 0.2 | 15 | \$554 | 61% | 1.8 |
| PPL | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | ROB | motor | 277,519 | 0.6% | 0.2 | 15 | \$554 | 61% | 1.8 |
| PPL | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | ROB | motor | 277,519 | 0.6% | 0.2 | 15 | \$554 | 61% | 1.8 |
| PPL | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | ROB | motor | 277,519 | 0.6% | 0.2 | 15 | \$554 | 61% | 1.8 |
| PPL | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | ROB | motor | 277,519 | 0.6% | 0.2 | 15 | \$554 | 61% | 1.9 |
| PPL | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Restaurant | Motors | ROB | motor | 277,519 | 0.6% | 0.2 | 15 | \$554 | 61% | 1.8 |
| PPL | ASD HVAC Fan | Std. HVAC Fan | Restaurant | Motors | New | measure | 1,593 | 6.0% | 0.01 | 15 | \$6,520 | 85% | 0.0 |
| PPL | ASD HVAC Fan | Std. HVAC Fan | Restaurant | Motors | ROB | measure | 1,593 | 6.0% | 0.01 | 15 | \$6,520 | 85% | 0.0 |
| PPL | demand controlled ventilation | Absence of Demand Controlled Ventilation | Restaurant | Motors | Early | measure | 1,593 | 14% | 0.03 | 10 | \$15,205 | 92% | 0.0 |
| PPL | demand controlled ventilation | Office building thermostat | Restaurant | Motors | New | measure | 1,593 | 14% | 0.03 | 10 | \$11,863 | 92% | 0.0 |
| PPL | demand controlled ventilation | Office building thermostat | Restaurant | Motors | ROB | measure | 1,593 | 14% | 0.03 | 10 | \$11,863 | 92% | 0.0 |
| PPL | Downsizing motor during retrofit | Larger hp standard motor | Restaurant | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 21.3 |
| PPL | Downsizing motor during retrofit | Larger hp standard motor | Restaurant | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 21.6 |
| PPL | Downsizing motor during retrofit | Larger hp standard motor | Restaurant | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 22.3 |
| PPL | Downsizing motor during retrofit | Larger hp standard motor | Restaurant | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 23.6 |
| PPL | Downsizing motor during retrofit | Larger hp standard motor | Restaurant | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 23.2 |
| PPL | Downsizing motor during retrofit | Larger hp standard motor | Restaurant | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 21.5 |
| PPL | Downsizing motor during retrofit | Larger hp standard motor | Restaurant | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 21.5 |
| PPL | Downsizing motor during retrofit | Larger hp standard motor | Restaurant | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 22.2 |
| PPL | Downsizing motor during retrofit | Larger hp standard motor | Restaurant | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 23.5 |
| PPL | Downsizing motor during retrofit | Larger hp standard motor | Restaurant | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 23.3 |
| PPL | Escalator Motor Controller | Constant power control | Restaurant | Motors | New | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 22% | 6.0 |
| PPL | Escalator Motor Controller | Constant power control | Restaurant | Motors | ROB | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 22% | 6.0 |
| PPL | Fan Motor - correct sizing | Incorrect Fan Motor Sizing | Restaurant | Motors | ROB | measure | 1,593 | 1.6% | 0.00 | 15 | \$50 | 92% | 0.3 |
| PPL | Variable Speed Drive Control, 15HP | Existing Motors w/out VFD Drive | Restaurant | Motors | Early | motor | 20,087 | 72% | 2.1 | 15 | \$791 | 86% | 12.3 |
| PPL | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VFD Drive | Restaurant | Motors | New | motor | 19,638 | 72% | 2.1 | 15 | \$731 | 86% | 13.0 |
| PPL | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VFD Drive | Restaurant | Motors | ROB | motor | 19,638 | 72% | 2.1 | 15 | \$731 | 86% | 13.0 |
| PPL | Variable Speed Drive Control, 40HP | Existing Motors w/out VSD Drive | Restaurant | Motors | Early | motor | 151,193 | 71% | 15.7 | 15 | \$4,726 | 86% | 15.2 |
| PPL | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Restaurant | Motors | New | motor | 149,426 | 72% | 15.7 | 15 | \$4,666 | 86% | 15.5 |
| PPL | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Restaurant | Motors | ROB | motor | 149,426 | 72% | 15.7 | 15 | \$4,666 | 86% | 15.5 |
| PPL | Variable Speed Drive Control, 5HP | Existing Motors w/out VSD Drive | Restaurant | Motors | Early | motor | 57,944 | 70% | 6.0 | 15 | \$2,303 | 86% | 11.9 |
| PPL | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VSD Drive | Restaurant | Motors | New | motor | 56,698 | 72% | 6.0 | 15 | \$2,243 | 86% | 12.2 |
| PPL | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VSD Drive | Restaurant | Motors | ROB | motor | 56,698 | 72% | 6.0 | 15 | \$2,243 | 86% | 12.2 |
| PPL | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Restaurant | Motors | Early | motor | 1,863 | 60% | 0.1 | 15 | \$328 | 86% | 2.2 |
| PPL | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Restaurant | Motors | New | motor | 1,863 | 60% | 0.1 | 15 | \$268 | 86% | 2.7 |
| PPL | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Restaurant | Motors | ROB | motor | 1,863 | 60% | 0.1 | 15 | \$268 | 86% | 2.7 |
| PPL | VFD on Chilled Water Pump | Motor w/out VFD Drive | Restaurant | Motors | Early | motor | 16,452 | 54% | 2.7 | 15 | \$2,903 | 86% | 2.3 |
| PPL | VFD on Chilled Water Pump | Motor w/out VFD Drive | Restaurant | Motors | New | motor | 16,144 | 55% | 2.7 | 15 | \$2,843 | 86% | 2.4 |
| PPL | VFD on Chilled Water Pump | Motor w/out VFD Drive | Restaurant | Motors | ROB | motor | 16,144 | 55% | 2.7 | 15 | \$2,843 | 86% | 2.4 |
| PPL | VFD on Condenser Water Pump | Motor w/out VFD Drive | Restaurant | Motors | Early | motor | 16,379 | 32% | 3.2 | 15 | \$2,903 | 86% | 1.8 |
| PPL | VFD on Condenser Water Pump | Motor w/out VFD Drive | Restaurant | Motors | New | motor | 16,072 | 33% | 3.1 | 15 | \$2,843 | 86% | 1.8 |
| PPL | VFD on Condenser Water Pump | Motor w/out VFD Drive | Restaurant | Motors | ROB | motor | 16,072 | 33% | 3.1 | 15 | \$2,843 | 86% | 1.8 |
| PPL | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Restaurant | Motors | Early | motor | 29,557 | 56% | 0.00 | 15 | \$2,903 | 86% | 3.1 |
| PPL | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Restaurant | Motors | New | motor | 29,004 | 57% | 0.00 | 15 | \$2,843 | 86% | 3.2 |
| PPL | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Restaurant | Motors | ROB | motor | 29,004 | 57% | 0.00 | 15 | \$2,843 | 86% | 3.2 |
| PPL | VFD on HVAC Fan | Motor w/out VFD | Restaurant | Motors | Early | motor | 16,452 | 70% | 3.4 | 15 | \$2,903 | 86% | 3.1 |
| PPL | VFD on HVAC Fan | Motor w/out VFD | Restaurant | Motors | New | motor | 16,144 | 72% | 3.3 | 15 | \$2,843 | 86% | 3.1 |
| PPL | VFD on HVAC Fan | Motor w/out VFD | Restaurant | Motors | ROB | motor | 16,144 | 72% | 3.3 | 15 | \$2,843 | 86% | 3.1 |
| PPL | Elevators | Std. Eff Elevator | Restaurant | Other | ROB | measure | 89,016 | 4.7% | 0.2 | 15 | \$443 | 81% | 5.4 |
| PPL | Variable Speed Drives on Process Equipment | Constant speed control | Restaurant | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 10.4 |
| PPL | Variable Speed Drives on Process Equipment | Constant speed control | Restaurant | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 10.4 |
| PPL | Auto Off Time Switch | Lighting w/ No Controls | Restaurant | Other Int. Lighting | Existing | building | 2,618 | 24% | 0.2 | 8 | \$181 | 13% | 1.7 |
| PPL | Auto Off Time Switch | Lighting w/ No Controls | Restaurant | Other Int. Lighting | New | building | 2,618 | 7.0% | 0.07 | 8 | \$181 | 0% | 0.5 |
| PPL | Central Lighting Control System | Lighting w/ No Controls | Restaurant | Other Int. Lighting | Existing | building | 2,618 | 38% | 0.4 | 8 | \$181 | 13% | 2.7 |
| PPL | Central Lighting Control System | Lighting w/ No Controls | Restaurant | Other Int. Lighting | New | building | 2,618 | 14% | 0.1 | 8 | \$181 | 13% | 1.0 |
| PPL | Cold Cathode Screw-In Bulb | 40W Incandescent Bulb | Restaurant | Other Int. Lighting | Early | lamp | 253 | 87% | 0.05 | 5 | \$33 | 14% | 1.9 |
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Restaurant | Other Int. Lighting | Early | lamp | 181 | 81% | 0.03 | 5 | \$33 | 11% | 1.3 |
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Restaurant | Other Int. Lighting | New | lamp | 138 | 81% | 0.02 | 5 | \$24 | 14% | 1.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|--|------------|---------------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Restaurant | Other Int. Lighting | New | lamp | 138 | 81% | 0.02 | 5 | \$25 | 14% | 1.2 |
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Restaurant | Other Int. Lighting | New | lamp | 138 | 81% | 0.02 | 5 | \$24 | 11% | 1.3 |
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Restaurant | Other Int. Lighting | ROB | lamp | 181 | 81% | 0.03 | 5 | \$24 | 14% | 1.7 |
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Restaurant | Other Int. Lighting | ROB | lamp | 181 | 81% | 0.03 | 5 | \$25 | 14% | 1.6 |
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Restaurant | Other Int. Lighting | ROB | lamp | 181 | 81% | 0.03 | 5 | \$24 | 11% | 1.7 |
| PPL | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Restaurant | Other Int. Lighting | Early | lamp | 253 | 75% | 0.04 | 2 | \$73 | 39% | 0.3 |
| PPL | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Restaurant | Other Int. Lighting | New | lamp | 275 | 65% | 0.04 | 13 | \$29 | 46% | 4.0 |
| PPL | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Restaurant | Other Int. Lighting | New | lamp | 138 | 65% | 0.02 | 2 | \$29 | 46% | 0.4 |
| PPL | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Restaurant | Other Int. Lighting | ROB | lamp | 362 | 65% | 0.05 | 13 | \$29 | 39% | 5.2 |
| PPL | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Restaurant | Other Int. Lighting | ROB | lamp | 181 | 65% | 0.03 | 2 | \$29 | 39% | 0.5 |
| PPL | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Restaurant | Other Int. Lighting | Early | lamp | 253 | 75% | 0.04 | 2 | \$3.6 | 24% | 6.3 |
| PPL | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Restaurant | Other Int. Lighting | New | lamp | 138 | 65% | 0.02 | 2 | \$1.8 | 24% | 6.0 |
| PPL | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Restaurant | Other Int. Lighting | ROB | lamp | 181 | 65% | 0.03 | 2 | \$1.8 | 24% | 7.9 |
| PPL | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Restaurant | Other Int. Lighting | ROB | lamp | 181 | 65% | 0.03 | 2 | \$1.8 | 24% | 7.9 |
| PPL | Exit Sign Retrofit: CFL replacing Incandescent | One 23W Single Sided Incandescent Exit Sign | Restaurant | Other Int. Lighting | Early | exit sign | 121 | 42% | 0.01 | 15 | \$78 | 22% | 0.4 |
| PPL | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Restaurant | Other Int. Lighting | New | building | 2,618 | 10% | 0.1 | 15 | \$46,260 | 32% | 0.0 |
| PPL | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Restaurant | Other Int. Lighting | New | building | 2,618 | 15% | 0.2 | 15 | \$115,651 | 32% | 0.0 |
| PPL | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Restaurant | Other Int. Lighting | New | building | 2,618 | 30% | 0.3 | 15 | \$165,766 | 32% | 0.0 |
| PPL | Indoor Daylight Sensors | Lighting w/ No Controls | Restaurant | Other Int. Lighting | Existing | building | 2,618 | 28% | 0.3 | 8 | \$891 | 13% | 0.4 |
| PPL | Indoor Daylight Sensors | Lighting w/ No Controls | Restaurant | Other Int. Lighting | New | building | 2,618 | 4.1% | 0.04 | 8 | \$891 | 0% | 0.1 |
| PPL | LED Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Restaurant | Other Int. Lighting | Early | sign | 153 | 87% | 0.02 | 15 | \$78 | 16% | 1.1 |
| PPL | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Restaurant | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 2.0 |
| PPL | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Restaurant | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 2.0 |
| PPL | LED Task Lighting/Screw-In | 1 15W CFL bulb | Restaurant | Other Int. Lighting | Early | lamp | 41 | 33% | 0.00 | 8 | \$9.6 | 24% | 0.4 |
| PPL | LED Task Lighting/Screw-In | 1 60W Incandescent Bulb | Restaurant | Other Int. Lighting | Early | lamp | 163 | 83% | 0.03 | 8 | \$9.6 | 24% | 4.4 |
| PPL | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Restaurant | Other Int. Lighting | New | lamp | 89 | 77% | 0.02 | 8 | \$7.9 | 24% | 2.6 |
| PPL | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Restaurant | Other Int. Lighting | New | lamp | 89 | 77% | 0.02 | 8 | \$7.9 | 24% | 2.6 |
| PPL | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Restaurant | Other Int. Lighting | ROB | lamp | 116 | 77% | 0.02 | 8 | \$7.9 | 24% | 3.5 |
| PPL | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Restaurant | Other Int. Lighting | ROB | lamp | 116 | 77% | 0.02 | 8 | \$7.9 | 24% | 3.5 |
| PPL | Occupancy Sensor | Lighting w/ No Controls | Restaurant | Other Int. Lighting | Existing | building | 2,618 | 24% | 0.2 | 8 | \$273 | 12% | 1.1 |
| PPL | Occupancy Sensor | Lighting w/ No Controls | Restaurant | Other Int. Lighting | New | building | 2,618 | 7.0% | 0.07 | 8 | \$273 | 0% | 0.3 |
| PPL | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Restaurant | Other Int. Lighting | Existing | building | 2,618 | 28% | 0.3 | 8 | \$891 | 12% | 0.4 |
| PPL | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Restaurant | Other Int. Lighting | New | building | 2,618 | 4.1% | 0.04 | 8 | \$891 | 0% | 0.1 |
| PPL | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Restaurant | Other Int. Lighting | Early | exit sign | 121 | 100% | 0.02 | 15 | \$203 | 26% | 0.4 |
| PPL | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Restaurant | Other Int. Lighting | New | exit sign | 70 | 100% | 0.01 | 15 | \$148 | 31% | 0.3 |
| PPL | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Restaurant | Other Int. Lighting | ROB | exit sign | 70 | 100% | 0.01 | 15 | \$148 | 26% | 0.3 |
| PPL | Time Clock Control | Lighting w/ No Controls | Restaurant | Other Int. Lighting | Existing | building | 2,618 | 28% | 0.3 | 8 | \$181 | 13% | 2.0 |
| PPL | Time Clock Control | Lighting w/ No Controls | Restaurant | Other Int. Lighting | New | building | 2,618 | 4.1% | 0.04 | 8 | \$181 | 0% | 0.3 |
| PPL | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Restaurant | Plug Load | Existing | building | 2,913 | 46% | 0.5 | 5 | \$189 | 4% | 2.2 |
| PPL | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Restaurant | Plug Load | New | building | 1,422 | 46% | 0.5 | 5 | \$189 | 4% | 1.5 |
| PPL | Data Center - Server/Storage Consolidation | No Consolidation | Restaurant | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PPL | Data Center - Server/Storage Consolidation | No Consolidation | Restaurant | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PPL | Data Center - Server/Storage Virtualization | No Virtualization | Restaurant | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PPL | Data Center - Server/Storage Virtualization | No Virtualization | Restaurant | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PPL | Energy Star - Scanners | Std Scanner | Restaurant | Plug Load | New | measure | 68 | 3.8% | 0.04 | 4 | \$130 | 7% | 0.1 |
| PPL | Energy Star - Scanners | Std Scanner | Restaurant | Plug Load | ROB | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| PPL | Energy Star Dishwasher | Existing Dishwasher units | Restaurant | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,580 | 23% | 1.0 |
| PPL | Energy Star Dishwasher | Standard Dishwasher unit | Restaurant | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 23% | 3.3 |
| PPL | Energy Star Dishwasher | Standard Dishwasher unit | Restaurant | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 23% | 3.3 |
| PPL | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Restaurant | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 17% | 0.1 |
| PPL | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Restaurant | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 1.6 |
| PPL | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Restaurant | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 1.6 |
| PPL | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Restaurant | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 9% | 0.8 |
| PPL | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Restaurant | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.6 |
| PPL | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Restaurant | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.6 |
| PPL | ENERGY STAR® Copiers | 10% Less Efficient Copier | Restaurant | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 18% | 0.0 |
| PPL | ENERGY STAR® Copiers | One Conventional Copier | Restaurant | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| PPL | ENERGY STAR® Copiers | One Conventional Copier | Restaurant | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| PPL | ENERGY STAR® desktop | Standard computer | Restaurant | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 69% | 0.1 |
| PPL | ENERGY STAR® desktop | Standard computer | Restaurant | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.2 |
| PPL | ENERGY STAR® desktop | Standard computer | Restaurant | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.2 |
| PPL | ENERGY STAR® Fax | 10% Less Efficient Fax | Restaurant | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 15% | 0.0 |
| PPL | ENERGY STAR® Fax | One Conventional Fax | Restaurant | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| PPL | ENERGY STAR® Fax | One Conventional Fax | Restaurant | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| PPL | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Restaurant | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 70% | 0.0 |
| PPL | ENERGY STAR® Monitors | One Conventional Monitor | Restaurant | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| PPL | ENERGY STAR® Monitors | One Conventional Monitor | Restaurant | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| PPL | ENERGY STAR® Printers | 10% Less Efficient Printer | Restaurant | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 44% | 0.0 |
| PPL | ENERGY STAR® Printers | One Conventional Printer | Restaurant | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| PPL | ENERGY STAR® Printers | One Conventional Printer | Restaurant | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|---|------------|---------------|----------|-------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Restaurant | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 43% | 0.1 |
| PPL | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Restaurant | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.8 |
| PPL | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Restaurant | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.8 |
| PPL | ENERGY STAR® Televisions | 10% Less Efficient Television | Restaurant | Plug Load | Early | Unit | 371 | 38% | 0.02 | 6 | \$672 | 40% | 0.1 |
| PPL | ENERGY STAR® Televisions | One Conventional Television | Restaurant | Plug Load | New | Unit | 337 | 32% | 0.02 | 6 | \$206 | 40% | 0.2 |
| PPL | ENERGY STAR® Televisions | One Conventional Television | Restaurant | Plug Load | ROB | Unit | 337 | 32% | 0.02 | 6 | \$206 | 40% | 0.2 |
| PPL | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Restaurant | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 24% | 0.3 |
| PPL | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Restaurant | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.6 |
| PPL | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Restaurant | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.6 |
| PPL | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Restaurant | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 51% | 0.2 |
| PPL | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Restaurant | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 51% | 0.2 |
| PPL | Network PC Power Management | No PC Power Management | Restaurant | Plug Load | Existing | computer | 425 | 33% | 0.01 | 5 | \$30 | 38% | 1.0 |
| PPL | Network PC Power Management | No PC Power Management | Restaurant | Plug Load | New | computer | 425 | 33% | 0.01 | 5 | \$30 | 38% | 1.0 |
| PPL | Smart Strip Plug Outlets | Standard plug strip/outlet | Restaurant | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.4 |
| PPL | Smart Strip Plug Outlets | Standard plug strip/outlet | Restaurant | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.4 |
| PPL | Smart Strip Plug Outlets | Standard plug strip/outlet | Restaurant | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PPL | Smart Strip Plug Outlets | Standard plug strip/outlet | Restaurant | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PPL | Smart Strip Plug Outlets | Standard plug strip/outlet | Restaurant | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PPL | Smart Strip Plug Outlets | Standard plug strip/outlet | Restaurant | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PPL | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Restaurant | Plug Load | Existing | building | 2,913 | 46% | 0.5 | 5 | \$180 | 3% | 2.3 |
| PPL | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Restaurant | Plug Load | New | building | 1,422 | 46% | 0.5 | 5 | \$180 | 3% | 1.5 |
| PPL | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Restaurant | Refrigeration | Existing | building | 2,924 | 6.1% | 0.06 | 12 | \$70 | 11% | 1.6 |
| PPL | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Restaurant | Refrigeration | New | building | 2,924 | 6.1% | 0.06 | 12 | \$70 | 11% | 1.6 |
| PPL | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Restaurant | Refrigeration | Existing | building | 2,924 | 0.9% | 0.01 | 12 | \$70 | 11% | 0.2 |
| PPL | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Restaurant | Refrigeration | New | building | 2,924 | 0.9% | 0.01 | 12 | \$70 | 11% | 0.2 |
| PPL | Auto Closer on Refrigerator Door | Door w/out Autocloser | Restaurant | Refrigeration | Existing | building | 8,771 | 8.2% | 0.08 | 8 | \$770 | 40% | 0.3 |
| PPL | Auto Closer on Refrigerator Door | Door w/out Autocloser | Restaurant | Refrigeration | Existing | building | 21,221 | 4.5% | 0.05 | 8 | \$766 | 40% | 0.4 |
| PPL | Auto Closer on Refrigerator Door | Door w/out Autocloser | Restaurant | Refrigeration | New | building | 8,771 | 8.2% | 0.08 | 8 | \$770 | 40% | 0.3 |
| PPL | Auto Closer on Refrigerator Door | Door w/out Autocloser | Restaurant | Refrigeration | New | building | 21,221 | 4.5% | 0.05 | 8 | \$766 | 40% | 0.4 |
| PPL | Demand Hot Gas Defrost | Base Refrigeration System | Restaurant | Refrigeration | Existing | measure | 2,924 | 3.0% | 0.03 | 10 | \$1,314 | 0% | 0.0 |
| PPL | Demand Hot Gas Defrost | Base Refrigeration System | Restaurant | Refrigeration | New | measure | 2,924 | 3.0% | 0.03 | 10 | \$1,314 | 0% | 0.0 |
| PPL | Door Gasket- Freezer | Door w/out Gasket | Restaurant | Refrigeration | Existing | building | 8,771 | 4.4% | 0.04 | 4 | \$79 | 29% | 0.9 |
| PPL | Door Gasket- Freezer | Door w/out Gasket | Restaurant | Refrigeration | New | building | 8,771 | 5.5% | 0.06 | 4 | \$79 | 29% | 1.2 |
| PPL | Door Gasket- Refrigerator | Door w/out Gasket | Restaurant | Refrigeration | Existing | building | 21,221 | 1.7% | 0.02 | 4 | \$106 | 45% | 0.6 |
| PPL | Door Gasket- Refrigerator | Door w/out Gasket | Restaurant | Refrigeration | New | building | 21,221 | 1.7% | 0.02 | 4 | \$106 | 45% | 0.6 |
| PPL | eCube | Refrigeration unit w/out eCube | Restaurant | Refrigeration | Existing | building | 21,221 | 15% | 0.2 | 15 | \$1,946 | 57% | 0.9 |
| PPL | eCube | Refrigeration unit w/out eCube | Restaurant | Refrigeration | New | building | 21,221 | 15% | 0.2 | 15 | \$1,946 | 57% | 0.9 |
| PPL | Efficient compressor motor | Base Refrigeration System - Grocery | Restaurant | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| PPL | Efficient compressor motor | Base Refrigeration System - Grocery | Restaurant | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| PPL | Efficient compressor motor | Base Refrigeration System - Grocery | Restaurant | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| PPL | Efficient compressor motor | Base Refrigeration System - Grocery | Restaurant | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| PPL | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Restaurant | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.6 |
| PPL | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Restaurant | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| PPL | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Restaurant | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| PPL | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Restaurant | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.3 |
| PPL | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Restaurant | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.7 |
| PPL | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Restaurant | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.7 |
| PPL | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Restaurant | Refrigeration | Existing | building | 21,221 | 1.5% | 0.02 | 10 | \$369 | 77% | 0.3 |
| PPL | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Restaurant | Refrigeration | New | building | 21,221 | 1.5% | 0.02 | 10 | \$369 | 77% | 0.3 |
| PPL | Floating head pressure controller | System w/out FHPC | Restaurant | Refrigeration | Existing | building | 8,771 | 0.7% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| PPL | Floating head pressure controller | System w/out FHPC | Restaurant | Refrigeration | Existing | building | 2,924 | 0.3% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| PPL | Floating head pressure controller | System w/out FHPC | Restaurant | Refrigeration | Existing | building | 21,221 | 0.3% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| PPL | Floating head pressure controller | System w/out FHPC | Restaurant | Refrigeration | New | building | 8,771 | 0.7% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| PPL | Floating head pressure controller | System w/out FHPC | Restaurant | Refrigeration | New | building | 21,221 | 0.3% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| PPL | Floating head pressure controller | System w/out FHPC | Restaurant | Refrigeration | New | building | 2,924 | 0.3% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| PPL | High Efficiency Commercial Freezer | Std. Commercial Freezer | Restaurant | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 79% | 0.3 |
| PPL | High Efficiency Commercial Freezer | Std. Commercial Freezer | Restaurant | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 79% | 3.9 |
| PPL | High Efficiency Commercial Freezer | Std. Commercial Freezer | Restaurant | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 79% | 3.9 |
| PPL | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Restaurant | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 79% | 0.1 |
| PPL | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Restaurant | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 79% | 0.9 |
| PPL | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Restaurant | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 79% | 0.9 |
| PPL | High Efficiency Ice Maker | Existing Standard Efficiency Ice Maker in Pennsylvania | Restaurant | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 69% | 0.2 |
| PPL | High Efficiency Ice Maker | Standard code minimum Ice Maker | Restaurant | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|--|------------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | High Efficiency Ice Maker | Standard code minimum Ice Maker | Restaurant | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 69% | 0.2 |
| PPL | High Efficiency Ice Making Head | Standard Ice Making Head | Restaurant | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.7 |
| PPL | High Efficiency Ice Making Head | Standard Ice Making Head | Restaurant | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.7 |
| PPL | High R-Value Glass Doors | Base Refrigeration System - Grocery | Restaurant | Refrigeration | Existing | building | 2,924 | 0.7% | 0.01 | 10 | \$50 | 0% | 0.2 |
| PPL | High R-Value Glass Doors | Base Refrigeration System - Grocery | Restaurant | Refrigeration | New | building | 2,924 | 0.7% | 0.01 | 10 | \$50 | 0% | 0.2 |
| PPL | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Restaurant | Refrigeration | Early | Fixture | 373 | 56% | 0.03 | 8 | \$448 | 89% | 0.2 |
| PPL | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Restaurant | Refrigeration | New | Fixture | 291 | 44% | 0.02 | 8 | \$139 | 89% | 0.3 |
| PPL | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Restaurant | Refrigeration | ROB | Fixture | 291 | 44% | 0.02 | 8 | \$139 | 89% | 0.3 |
| PPL | No-heat glass doors | Standard low-temp reach-in | Restaurant | Refrigeration | Existing | building | 2,924 | 20% | 0.2 | 10 | \$4,600 | 8% | 0.1 |
| PPL | No-heat glass doors | Standard low-temp reach-in | Restaurant | Refrigeration | New | building | 2,924 | 20% | 0.2 | 10 | \$4,600 | 8% | 0.1 |
| PPL | Quick acting freezer doors | Std. Freezer Doors | Restaurant | Refrigeration | Existing | building | 8,771 | 13% | 0.1 | 10 | \$2,707 | 56% | 0.2 |
| PPL | Quick acting freezer doors | Std. Freezer Doors | Restaurant | Refrigeration | New | building | 8,771 | 13% | 0.1 | 10 | \$2,707 | 56% | 0.2 |
| PPL | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Restaurant | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 29% | 0.4 |
| PPL | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Restaurant | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 29% | 1.6 |
| PPL | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Restaurant | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 29% | 1.6 |
| PPL | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 29% | 1.6 |
| PPL | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 29% | 2.8 |
| PPL | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 29% | 2.8 |
| PPL | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 29% | 1.6 |
| PPL | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 29% | 3.8 |
| PPL | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 29% | 3.8 |
| PPL | Refrigeration Commissioning | Non-commissioned refrigeration system | Restaurant | Refrigeration | Existing | building | 34,109 | 9.5% | 0.10 | 3 | \$4,759 | 85% | 0.1 |
| PPL | Refrigeration Commissioning | Non-commissioned refrigeration system | Restaurant | Refrigeration | New | building | 34,109 | 9.5% | 0.10 | 3 | \$4,759 | 85% | 0.1 |
| PPL | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Restaurant | Refrigeration | Existing | building | 8,771 | 11% | 0.1 | 4 | \$96 | 22% | 1.9 |
| PPL | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Restaurant | Refrigeration | Existing | building | 21,221 | 2.0% | 0.02 | 4 | \$128 | 22% | 0.6 |
| PPL | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Restaurant | Refrigeration | New | building | 8,771 | 11% | 0.1 | 4 | \$96 | 22% | 1.9 |
| PPL | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Restaurant | Refrigeration | New | building | 21,221 | 2.0% | 0.02 | 4 | \$128 | 22% | 0.6 |
| PPL | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Restaurant | Refrigeration | Existing | building | 8,771 | 2.2% | 0.02 | 11 | \$148 | 77% | 0.6 |
| PPL | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Restaurant | Refrigeration | New | building | 8,771 | 2.2% | 0.02 | 11 | \$148 | 77% | 0.6 |
| PPL | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Restaurant | Refrigeration | Existing | building | 21,221 | 1.6% | 0.02 | 11 | \$148 | 77% | 1.0 |
| PPL | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Restaurant | Refrigeration | New | building | 21,221 | 1.6% | 0.02 | 11 | \$148 | 77% | 1.0 |
| PPL | Vertical Night Covers | Display cases w/out night covers-High Temperature | Restaurant | Refrigeration | Existing | building | 2,924 | 0.1% | 0.00 | 5 | \$38 | 9% | 0.0 |
| PPL | Vertical Night Covers | Display cases w/out night covers-High Temperature | Restaurant | Refrigeration | New | building | 2,924 | 0.1% | 0.00 | 5 | \$38 | 9% | 0.0 |
| PPL | VSD Controlled Compressor | Compressor w/out VSD | Restaurant | Refrigeration | Early | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 73% | 0.1 |
| PPL | VSD Controlled Compressor | Compressor w/out VSD | Restaurant | Refrigeration | New | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 73% | 0.1 |
| PPL | VSD Controlled Compressor | Compressor w/out VSD | Restaurant | Refrigeration | ROB | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 73% | 0.1 |
| PPL | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Restaurant | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$269 | 23% | 0.9 |
| PPL | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Restaurant | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$269 | 23% | 0.8 |
| PPL | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Restaurant | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 23% | 3.0 |
| PPL | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Restaurant | Refrigeration | New | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 23% | 2.9 |
| PPL | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Restaurant | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 23% | 3.0 |
| PPL | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Restaurant | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 23% | 2.9 |
| PPL | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 23% | 2.3 |
| PPL | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 23% | 2.2 |
| PPL | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$151 | 23% | 4.1 |
| PPL | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$151 | 23% | 3.9 |
| PPL | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$151 | 23% | 4.1 |
| PPL | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Restaurant | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$151 | 23% | 3.9 |
| PPL | Adding reflective roof treatment | Std color roof | Restaurant | Space Heating | Existing | building | 240 | 7.1% | 0.07 | 6 | \$19,783 | 82% | 0.0 |
| PPL | Adding reflective roof treatment | Std color roof | Restaurant | Space Heating | New | building | 240 | 7.1% | 0.07 | 6 | \$19,783 | 82% | 0.0 |
| PPL | Adding window shade film | No shade film | Restaurant | Space Heating | Existing | building | 240 | 1.3% | 0.4 | 10 | \$2.9 | 13% | 68.0 |
| PPL | Adding window shade film | No shade film | Restaurant | Space Heating | New | building | 240 | 1.3% | 0.4 | 10 | \$2.9 | 13% | 68.0 |
| PPL | Adding window shade screen | No shade screen | Restaurant | Space Heating | Existing | building | 240 | 1.1% | 0.01 | 10 | \$1.1 | 13% | 5.6 |
| PPL | Adding window shade screen | No shade screen | Restaurant | Space Heating | New | building | 240 | 1.1% | 0.01 | 10 | \$1.1 | 13% | 5.6 |
| PPL | Automated control system | Manual Controls | Restaurant | Space Heating | Existing | building | 240 | 17% | 0.2 | 15 | \$262 | 51% | 0.5 |
| PPL | Automated control system | Manual Controls | Restaurant | Space Heating | New | building | 240 | 17% | 0.2 | 15 | \$262 | 94% | 0.5 |
| PPL | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Restaurant | Space Heating | Existing | building | 240 | 8.9% | 0.09 | 15 | \$26,661 | 71% | 0.0 |
| PPL | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Restaurant | Space Heating | New | building | 240 | 3.0% | 0.03 | 15 | \$25,342 | 94% | 0.0 |
| PPL | Duct Insulation, Add R8 | No Insulation | Restaurant | Space Heating | Existing | building | 240 | 1.4% | 0.04 | 15 | \$1.9 | 20% | 15.7 |
| PPL | Duct Insulation, Add R8 | No Insulation | Restaurant | Space Heating | New | building | 240 | 1.4% | 0.04 | 15 | \$1.9 | 10% | 15.7 |
| PPL | Efficient Unit Heating System | Existing Unit Heaters in PA | Restaurant | Space Heating | Early | heater | 38,010 | 23% | 0.06 | 15 | \$3,289 | 83% | 1.5 |
| PPL | Efficient Unit Heating System | Std. Unit Heater | Restaurant | Space Heating | New | heater | 33,734 | 13% | 0.03 | 15 | \$1,985 | 83% | 1.2 |
| PPL | Efficient Unit Heating System | Std. Unit Heater | Restaurant | Space Heating | ROB | heater | 33,734 | 13% | 0.03 | 15 | \$1,985 | 83% | 1.2 |
| PPL | Facility Commissioning | No Facility Commissioning | Restaurant | Space Heating | New | building | 240 | 16% | 0.2 | 10 | \$7,984 | 89% | 0.0 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Restaurant | Space Heating | Existing | building | 240 | 7.1% | 0.07 | 15 | \$1,063 | 25% | 0.1 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Restaurant | Space Heating | New | building | 240 | 7.1% | 0.07 | 15 | \$1,063 | 35% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|---|------------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Hi Eff HVAC System Design | No HVAC Design | Restaurant | Space Heating | New | building | 240 | 12% | 0.1 | 10 | \$112,834 | 51% | 0.0 |
| PPL | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Restaurant | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$77 | 32% | 1.0 |
| PPL | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Restaurant | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$77 | 32% | 1.0 |
| PPL | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Restaurant | Space Heating | Existing | building | 240 | 3.5% | 0.04 | 10 | \$7,735 | 81% | 0.0 |
| PPL | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Restaurant | Space Heating | New | building | 240 | 3.5% | 0.04 | 10 | \$7,735 | 81% | 0.0 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Restaurant | Space Heating | Existing | building | 240 | 3.6% | 0.04 | 11 | \$286 | 49% | 0.1 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Restaurant | Space Heating | New | building | 240 | 3.1% | 0.03 | 11 | \$146 | 49% | 0.1 |
| PPL | Re-Commissioning (Existing Construction) | No Re-Commissioning | Restaurant | Space Heating | Existing | building | 240 | 16% | 0.2 | 5 | \$12,732 | 86% | 0.0 |
| PPL | VFD on Cooling Tower Fan | Motor w/out VFD | Restaurant | Space Heating | Early | motor | 16,452 | 70% | 3.4 | 15 | \$2,843 | 88% | 3.1 |
| PPL | VFD on Cooling Tower Fan | Motor w/out VFD | Restaurant | Space Heating | New | motor | 16,144 | 72% | 3.3 | 15 | \$2,843 | 88% | 3.1 |
| PPL | VFD on Cooling Tower Fan | Motor w/out VFD | Restaurant | Space Heating | ROB | motor | 16,144 | 72% | 3.3 | 15 | \$2,843 | 88% | 3.1 |
| PPL | Wall Insualtions (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Restaurant | Space Heating | Existing | building | 240 | 12% | 0.1 | 15 | \$6,404 | 26% | 0.0 |
| PPL | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Restaurant | Space Heating | New | building | 240 | 0.5% | 0.01 | 15 | \$4,912 | 94% | 0.0 |
| PPL | Green LED Traffic Light | Green Incandescent Traffic Light | Restaurant | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 0% | 1.2 |
| PPL | Green LED Traffic Light | Green Incandescent Traffic Light | Restaurant | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| PPL | Green LED Traffic Light | Green Incandescent Traffic Light | Restaurant | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| PPL | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Restaurant | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 0% | 3.0 |
| PPL | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Restaurant | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| PPL | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Restaurant | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| PPL | Induction Street Lighting | One 100W HPS Street Light Fixture | Restaurant | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 0% | 0.3 |
| PPL | Induction Street Lighting | One 100W HPS Street Light Fixture | Restaurant | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.7 |
| PPL | Induction Street Lighting | One 100W HPS Street Light Fixture | Restaurant | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.7 |
| PPL | LED Street Lighting | One 100W HPS Street Light | Restaurant | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 0% | 0.2 |
| PPL | LED Street Lighting | One 100W HPS Street Light | Restaurant | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| PPL | LED Street Lighting | One 100W HPS Street Light | Restaurant | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| PPL | Red LED Traffic Light | One Red Incandescent Traffic Light | Restaurant | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 0% | 1.6 |
| PPL | Red LED Traffic Light | One Red Incandescent Traffic Light | Restaurant | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| PPL | Red LED Traffic Light | One Red Incandescent Traffic Light | Restaurant | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| PPL | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Restaurant | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 0% | 0.1 |
| PPL | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Restaurant | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| PPL | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Restaurant | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| PPL | Demand controlled Circulating Systems | Constant circulation system | Restaurant | Water Heating | Existing | building | 1,243 | 20% | 0.2 | 15 | \$225 | 59% | 1.3 |
| PPL | Demand controlled Circulating Systems | Constant circulation system | Restaurant | Water Heating | New | building | 1,243 | 20% | 0.2 | 15 | \$225 | 59% | 1.3 |
| PPL | Drainwater Heat Recovery Water Heater | No heat recovery | Restaurant | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.9 |
| PPL | Drainwater Heat Recovery Water Heater | No heat recovery | Restaurant | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.9 |
| PPL | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Restaurant | Water Heating | Existing | building | 1,243 | 5.9% | 0.06 | 12 | \$14 | 85% | 5.0 |
| PPL | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Restaurant | Water Heating | New | building | 1,243 | 5.9% | 0.06 | 12 | \$4.0 | 85% | 17.5 |
| PPL | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Restaurant | Water Heating | Early | water heater | 179,161 | 66% | 21.0 | 10 | \$9,872 | 68% | 5.8 |
| PPL | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Restaurant | Water Heating | Early | water heater | 179,161 | 66% | 21.0 | 10 | \$9,872 | 68% | 5.8 |
| PPL | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Restaurant | Water Heating | New | water heater | 179,161 | 66% | 21.0 | 10 | \$7,124 | 68% | 8.1 |
| PPL | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Restaurant | Water Heating | New | water heater | 179,161 | 66% | 21.0 | 10 | \$7,124 | 68% | 8.1 |
| PPL | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Restaurant | Water Heating | ROB | water heater | 174,184 | 65% | 20.1 | 10 | \$7,124 | 68% | 7.7 |
| PPL | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Restaurant | Water Heating | ROB | water heater | 174,184 | 65% | 20.1 | 10 | \$7,124 | 68% | 7.7 |
| PPL | Heat Recovery Unit | Base Water Heating | Restaurant | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.6 |
| PPL | Heat Recovery Unit | Base Water Heating | Restaurant | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.6 |
| PPL | Heat Trap | No Heat Trap | Restaurant | Water Heating | Existing | building | 1,243 | 1.0% | 0.01 | 11 | \$0.2 | 50% | 46.7 |
| PPL | Heat Trap | No Heat Trap | Restaurant | Water Heating | New | building | 1,243 | 1.0% | 0.01 | 11 | \$0.1 | 50% | 121.8 |
| PPL | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Restaurant | Water Heating | Early | water heater | 179,161 | 5.9% | 1.9 | 15 | \$4,290 | 79% | 1.7 |
| PPL | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Restaurant | Water Heating | Early | water heater | 179,161 | 5.9% | 1.9 | 15 | \$4,290 | 79% | 1.7 |
| PPL | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Restaurant | Water Heating | New | water heater | 174,184 | 3.2% | 1.0 | 15 | \$1,842 | 79% | 2.1 |
| PPL | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Restaurant | Water Heating | New | water heater | 174,184 | 3.2% | 1.0 | 15 | \$1,842 | 79% | 2.1 |
| PPL | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Restaurant | Water Heating | ROB | water heater | 174,184 | 3.2% | 1.0 | 15 | \$1,842 | 79% | 2.1 |
| PPL | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Restaurant | Water Heating | ROB | water heater | 174,184 | 3.2% | 1.0 | 15 | \$1,842 | 79% | 2.1 |
| PPL | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Restaurant | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$646 | 81% | 28.2 |
| PPL | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Restaurant | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 20.4 |
| PPL | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Restaurant | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 20.4 |
| PPL | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Restaurant | Water Heating | Existing | building | 1,243 | 3.0% | 0.03 | 13 | \$5.5 | 68% | 6.9 |
| PPL | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Restaurant | Water Heating | New | building | 1,243 | 3.0% | 0.03 | 13 | \$5.5 | 0% | 6.9 |
| PPL | Hot Water Circulation Pump Time-Clock | Constant circulation system | Restaurant | Water Heating | Existing | building | 1,243 | 5.3% | 0.05 | 10 | \$5.0 | 72% | 10.8 |
| PPL | Hot Water Circulation Pump Time-Clock | Constant circulation system | Restaurant | Water Heating | New | building | 1,243 | 5.3% | 0.05 | 10 | \$5.0 | 72% | 10.8 |
| PPL | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Restaurant | Water Heating | Existing | building | 1,142 | 0.1% | 0.00 | 7 | \$22 | 78% | 0.0 |
| PPL | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Restaurant | Water Heating | New | building | 1,142 | 6.6% | 0.07 | 7 | \$0.5 | 78% | 97.2 |
| PPL | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Restaurant | Water Heating | Existing | building | 1,243 | 13% | 0.1 | 5 | \$300 | 80% | 0.2 |
| PPL | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Restaurant | Water Heating | New | building | 1,243 | 13% | 0.1 | 5 | \$194 | 80% | 0.4 |
| PPL | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Restaurant | Water Heating | Existing | building | 1,243 | 6.5% | 0.07 | 9 | \$25 | 2% | 2.4 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|--|------------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Restaurant | Water Heating | New | building | 1,243 | 6.5% | 0.07 | 9 | \$6.0 | 2% | 10.1 |
| PPL | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Restaurant | Water Heating | Early | water heater | 179,161 | 52% | 7.6 | 15 | \$40,080 | 32% | 1.5 |
| PPL | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Restaurant | Water Heating | New | water heater | 174,184 | 51% | 7.2 | 15 | \$37,332 | 32% | 1.5 |
| PPL | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Restaurant | Water Heating | ROB | water heater | 174,184 | 51% | 7.2 | 15 | \$37,332 | 32% | 1.5 |
| PPL | Ultrasonic Faucet Control | Manual Faucet Control | Restaurant | Water Heating | Existing | building | 1,243 | 3.0% | 0.03 | 10 | \$215 | 77% | 0.1 |
| PPL | Ultrasonic Faucet Control | Manual Faucet Control | Restaurant | Water Heating | New | building | 1,243 | 3.0% | 0.03 | 10 | \$215 | 77% | 0.1 |
| PPL | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Restaurant | Water Heating | Existing | building | 1,243 | 2.2% | 0.02 | 4 | \$28 | 83% | 0.4 |
| PPL | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Restaurant | Water Heating | New | building | 1,243 | 2.3% | 0.02 | 4 | \$28 | 83% | 0.4 |
| PPL | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Retail | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.1 |
| PPL | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Retail | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.1 |
| PPL | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Retail | Cooking | Early | steamer | 51 | 46% | 0.00 | 12 | \$5,103 | 81% | 0.0 |
| PPL | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Retail | Cooking | New | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| PPL | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Retail | Cooking | ROB | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| PPL | Electric combination oven (Energy Star) | Standard Oven | Retail | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.9 |
| PPL | Electric combination oven (Energy Star) | Standard Oven | Retail | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.9 |
| PPL | Electric Convection Oven | Conventional convection oven w/ 65% efficiency | Retail | Cooking | Early | oven | 8,641 | 37% | 0.6 | 12 | \$4,169 | 81% | 0.4 |
| PPL | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Retail | Cooking | New | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.7 |
| PPL | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Retail | Cooking | ROB | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.7 |
| PPL | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Retail | Cooking | Early | fryer | 6,105 | 23% | 0.3 | 12 | \$9,291 | 86% | 0.1 |
| PPL | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Retail | Cooking | New | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| PPL | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Retail | Cooking | ROB | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| PPL | High Efficiency Griddle (ENERGY STAR) | Efficiency code minimum griddle (70% eff) | Retail | Cooking | Early | griddle | 11,317 | 65% | 1.4 | 12 | \$4,992 | 86% | 0.8 |
| PPL | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Retail | Cooking | New | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.2 |
| PPL | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Retail | Cooking | ROB | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.2 |
| PPL | High Efficiency Induction Cooking | Standard Cooking | Retail | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| PPL | High Efficiency Induction Cooking | Standard Cooking | Retail | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| PPL | Adding reflective roof treatment | Std color roof | Retail | Cooling Central | Existing | building | 3,768 | 7.0% | 0.07 | 6 | \$14,590 | 82% | 0.0 |
| PPL | Adding reflective roof treatment | Std color roof | Retail | Cooling Central | New | building | 3,768 | 7.0% | 0.07 | 6 | \$14,590 | 82% | 0.0 |
| PPL | Adding window shade film | No shade film | Retail | Cooling Central | Existing | building | 3,768 | 1.3% | 0.4 | 10 | \$46 | 13% | 4.7 |
| PPL | Adding window shade film | No shade film | Retail | Cooling Central | New | building | 3,768 | 1.3% | 0.4 | 10 | \$46 | 13% | 4.7 |
| PPL | Adding window shade screen | No shade screen | Retail | Cooling Central | Existing | building | 3,768 | 1.1% | 0.01 | 10 | \$18 | 13% | 1.1 |
| PPL | Adding window shade screen | No shade screen | Retail | Cooling Central | New | building | 3,768 | 1.0% | 0.01 | 10 | \$18 | 13% | 1.1 |
| PPL | Automated control system | Manual Controls | Retail | Cooling Central | Existing | building | 3,768 | 17% | 0.2 | 15 | \$4,125 | 51% | 0.1 |
| PPL | Automated control system | Manual Controls | Retail | Cooling Central | New | building | 3,768 | 17% | 0.2 | 15 | \$4,125 | 94% | 0.1 |
| PPL | Ceiling Insulations (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Retail | Cooling Central | Existing | building | 3,768 | 4.9% | 0.05 | 15 | \$19,662 | 71% | 0.0 |
| PPL | Ceiling Insulations (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Retail | Cooling Central | New | building | 3,768 | 1.6% | 0.02 | 15 | \$18,689 | 94% | 0.0 |
| PPL | Chiller Tuneup/Diagnostics | No tuneup | Retail | Cooling Central | Existing | building | 3,768 | 8.0% | 0.08 | 10 | \$9,620 | 59% | 0.0 |
| PPL | Chiller Tuneup/Diagnostics | No tuneup | Retail | Cooling Central | New | building | 3,768 | 8.0% | 0.08 | 10 | \$9,620 | 59% | 0.0 |
| PPL | Cooling Tower Optimization | No Cooling Tower Optimization | Retail | Cooling Central | Existing | building | 3,768 | 20% | 0.2 | 10 | \$23 | 69% | 16.1 |
| PPL | Duct Insulation, Add R8 | No Insulation | Retail | Cooling Central | Existing | building | 3,768 | 1.4% | 0.04 | 15 | \$30 | 20% | 1.9 |
| PPL | Duct Insulation, Add R8 | No Insulation | Retail | Cooling Central | New | building | 3,768 | 1.4% | 0.04 | 15 | \$30 | 10% | 1.9 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Retail | Cooling Central | Existing | building | 3,768 | 7.0% | 0.07 | 15 | \$16,712 | 25% | 0.0 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Retail | Cooling Central | New | building | 3,768 | 7.0% | 0.07 | 15 | \$16,712 | 35% | 0.0 |
| PPL | Hi Eff HVAC System Design | No HVAC Design | Retail | Cooling Central | New | building | 3,768 | 11% | 0.1 | 10 | \$179,491 | 51% | 0.0 |
| PPL | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Retail | Cooling Central | Early | ton | 7,330 | 24% | 0.6 | 15 | \$108,550 | 88% | 0.0 |
| PPL | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Retail | Cooling Central | New | ton | 5,992 | 6.7% | 0.1 | 15 | \$12,927 | 88% | 0.0 |
| PPL | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Retail | Cooling Central | ROB | ton | 5,992 | 6.7% | 0.1 | 15 | \$12,927 | 88% | 0.0 |
| PPL | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Retail | Cooling Central | Early | ton | 10,953 | 23% | 0.9 | 15 | \$140,105 | 88% | 0.0 |
| PPL | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Retail | Cooling Central | New | ton | 8,812 | 4.9% | 0.1 | 15 | \$9,336 | 88% | 0.0 |
| PPL | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Retail | Cooling Central | ROB | ton | 8,812 | 4.9% | 0.1 | 15 | \$9,336 | 88% | 0.0 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Retail | Cooling Central | Early | ton | 89,661 | 26% | 8.1 | 15 | \$105,354 | 88% | 0.2 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Retail | Cooling Central | New | ton | 78,121 | 15% | 4.1 | 15 | \$30,530 | 88% | 0.3 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Retail | Cooling Central | ROB | ton | 78,121 | 15% | 4.1 | 15 | \$30,530 | 88% | 0.3 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Retail | Cooling Central | Early | ton | 134,288 | 23% | 10.7 | 15 | \$154,107 | 88% | 0.2 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Retail | Cooling Central | New | ton | 123,360 | 16% | 6.9 | 15 | \$27,646 | 88% | 0.6 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Retail | Cooling Central | ROB | ton | 134,288 | 23% | 10.7 | 15 | \$27,646 | 88% | 0.9 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Retail | Cooling Central | Early | ton | 223,027 | 23% | 17.5 | 15 | \$302,924 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Retail | Cooling Central | New | ton | 201,856 | 14% | 10.2 | 15 | \$115,432 | 88% | 0.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|--|---------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Retail | Cooling Central | ROB | ton | 223,027 | 23% | 17.5 | 15 | \$115,432 | 88% | 0.3 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Retail | Cooling Central | Early | ton | 267,633 | 23% | 21.0 | 15 | \$350,154 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Retail | Cooling Central | New | ton | 242,227 | 14% | 12.2 | 15 | \$120,406 | 88% | 0.2 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Retail | Cooling Central | ROB | ton | 267,633 | 23% | 21.0 | 15 | \$120,406 | 88% | 0.4 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Retail | Cooling Central | Early | ton | 59,323 | 29% | 6.0 | 15 | \$83,632 | 88% | 0.2 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Retail | Cooling Central | New | ton | 46,064 | 8.9% | 1.4 | 15 | \$40,211 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Retail | Cooling Central | ROB | ton | 59,323 | 29% | 6.0 | 15 | \$40,211 | 88% | 0.3 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Retail | Cooling Central | Early | ton | 101,932 | 35% | 12.3 | 15 | \$132,173 | 88% | 0.2 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Retail | Cooling Central | New | ton | 76,024 | 13% | 3.3 | 15 | \$39,556 | 88% | 0.2 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Retail | Cooling Central | ROB | ton | 76,024 | 13% | 3.3 | 15 | \$39,556 | 88% | 0.2 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Retail | Cooling Central | Early | ton | 170,183 | 39% | 23.1 | 15 | \$187,029 | 88% | 0.3 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Retail | Cooling Central | New | ton | 121,338 | 15% | 6.2 | 15 | \$33,554 | 88% | 0.4 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Retail | Cooling Central | ROB | ton | 170,183 | 39% | 23.1 | 15 | \$33,554 | 88% | 1.6 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Retail | Cooling Central | Early | ton | 29,779 | 30% | 3.1 | 15 | \$32,398 | 88% | 0.2 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Retail | Cooling Central | New | ton | 23,594 | 11% | 0.9 | 15 | \$7,188 | 88% | 0.3 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Retail | Cooling Central | ROB | ton | 29,779 | 30% | 3.1 | 15 | \$6,888 | 88% | 1.0 |
| PPL | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Retail | Cooling Central | Existing | building | 3,768 | 2.3% | 0.02 | 10 | \$1,539 | 81% | 0.0 |
| PPL | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Retail | Cooling Central | New | building | 3,768 | 2.3% | 0.02 | 10 | \$1,539 | 81% | 0.0 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Retail | Cooling Central | Existing | building | 3,768 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.1 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Retail | Cooling Central | New | building | 3,768 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.2 |
| PPL | Re-Commissioning (Existing Construction) | No Re-Commissioning | Retail | Cooling Central | Existing | building | 3,768 | 16% | 0.2 | 5 | \$8,051 | 86% | 0.0 |
| PPL | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Retail | Cooling Central | Existing | building | 3,768 | 8.1% | 0.08 | 15 | \$5,499 | 26% | 0.0 |
| PPL | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Retail | Cooling Central | New | building | 3,768 | 0.3% | 0.00 | 15 | \$4,218 | 94% | 0.0 |
| PPL | <65k BTU/hr 14 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Retail | Cooling Unitary | Early | ton | 2,247 | 16% | 0.3 | 15 | \$1,545 | 29% | 0.2 |
| PPL | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Retail | Cooling Unitary | New | ton | 2,035 | 7.1% | 0.1 | 15 | \$339 | 29% | 0.4 |
| PPL | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Retail | Cooling Unitary | ROB | ton | 2,035 | 7.1% | 0.1 | 15 | \$339 | 29% | 0.4 |
| PPL | <65k BTU/hr 15 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Retail | Cooling Unitary | Early | ton | 2,247 | 22% | 0.2 | 15 | \$1,821 | 30% | 0.2 |
| PPL | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Retail | Cooling Unitary | New | ton | 2,035 | 13% | 0.3 | 15 | \$714 | 30% | 0.5 |
| PPL | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Retail | Cooling Unitary | ROB | ton | 2,035 | 13% | 0.3 | 15 | \$714 | 30% | 0.5 |
| PPL | <65k BTU/hr 16 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Retail | Cooling Unitary | Early | ton | 2,247 | 26% | 0.4 | 15 | \$2,098 | 31% | 0.3 |
| PPL | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Retail | Cooling Unitary | New | ton | 2,035 | 19% | 0.3 | 15 | \$1,089 | 31% | 0.4 |
| PPL | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Retail | Cooling Unitary | ROB | ton | 2,035 | 19% | 0.3 | 15 | \$1,089 | 31% | 0.4 |
| PPL | >760k min 10.2 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Retail | Cooling Unitary | Early | ton | 56,858 | 3.7% | 1.5 | 15 | \$68,066 | 56% | 0.0 |
| PPL | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Retail | Cooling Unitary | New | ton | 57,588 | 4.9% | 2.0 | 15 | \$6,231 | 56% | 0.5 |
| PPL | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Retail | Cooling Unitary | ROB | ton | 57,588 | 4.9% | 2.0 | 15 | \$6,231 | 56% | 0.5 |
| PPL | 135-240k min 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Retail | Cooling Unitary | Early | ton | 12,983 | 18% | 1.8 | 15 | \$18,135 | 79% | 0.1 |
| PPL | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Retail | Cooling Unitary | New | ton | 11,810 | 10.0% | 0.9 | 15 | \$1,948 | 79% | 0.7 |
| PPL | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Retail | Cooling Unitary | ROB | ton | 11,810 | 10.0% | 0.9 | 15 | \$1,948 | 79% | 0.7 |
| PPL | 240k-760k min 11 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Retail | Cooling Unitary | Early | ton | 37,407 | 9.0% | 2.4 | 15 | \$44,809 | 66% | 0.1 |
| PPL | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Retail | Cooling Unitary | New | ton | 37,500 | 9.3% | 2.4 | 15 | \$4,813 | 66% | 0.7 |
| PPL | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Retail | Cooling Unitary | ROB | ton | 37,500 | 9.3% | 2.4 | 15 | \$4,813 | 66% | 0.7 |
| PPL | 65k-135k BTU/hr 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Retail | Cooling Unitary | Early | ton | 8,247 | 17% | 1.0 | 15 | \$10,946 | 86% | 0.1 |
| PPL | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Retail | Cooling Unitary | New | ton | 7,350 | 6.7% | 0.3 | 15 | \$1,392 | 86% | 0.4 |
| PPL | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Retail | Cooling Unitary | ROB | ton | 7,350 | 6.7% | 0.3 | 15 | \$1,392 | 86% | 0.4 |
| PPL | Adding reflective roof treatment | Std color roof | Retail | Cooling Unitary | Existing | building | 34,956 | 7.0% | 0.07 | 6 | \$14,590 | 82% | 0.0 |
| PPL | Adding reflective roof treatment | Std color roof | Retail | Cooling Unitary | New | building | 34,956 | 7.1% | 0.07 | 6 | \$14,590 | 82% | 0.0 |
| PPL | Adding window shade film | No shade film | Retail | Cooling Unitary | Existing | building | 34,956 | 1.3% | 0.4 | 10 | \$425 | 12% | 0.9 |
| PPL | Adding window shade film | No shade film | Retail | Cooling Unitary | New | building | 34,956 | 1.3% | 0.4 | 10 | \$425 | 13% | 0.9 |
| PPL | Adding window shade screen | No shade screen | Retail | Cooling Unitary | Existing | building | 34,956 | 1.1% | 0.01 | 10 | \$165 | 12% | 0.9 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|---|---------|-----------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Adding window shade screen | No shade screen | Retail | Cooling Unitary | New | building | 34,956 | 1.1% | 0.01 | 10 | \$165 | 13% | 0.9 |
| PPL | Automated control system | Manual Controls | Retail | Cooling Unitary | Existing | building | 34,956 | 17% | 0.2 | 15 | \$38,268 | 51% | 0.1 |
| PPL | Automated control system | Manual Controls | Retail | Cooling Unitary | New | building | 34,956 | 17% | 0.2 | 15 | \$38,268 | 94% | 0.1 |
| PPL | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Retail | Cooling Unitary | Existing | building | 34,956 | 4.9% | 0.05 | 15 | \$19,662 | 71% | 0.0 |
| PPL | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Retail | Cooling Unitary | New | building | 34,956 | 1.6% | 0.02 | 15 | \$18,689 | 94% | 0.0 |
| PPL | Duct Insulation, Add R8 | No Insulation | Retail | Cooling Unitary | Existing | building | 34,956 | 1.4% | 0.04 | 15 | \$278 | 20% | 1.1 |
| PPL | Duct Insulation, Add R8 | No Insulation | Retail | Cooling Unitary | New | building | 34,956 | 1.4% | 0.04 | 15 | \$278 | 10% | 1.0 |
| PPL | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Retail | Cooling Unitary | Existing | building | 19,103 | 13% | 0.1 | 1 | \$183 | 73% | 0.7 |
| PPL | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Retail | Cooling Unitary | New | building | 19,103 | 13% | 0.1 | 1 | \$183 | 73% | 0.7 |
| PPL | ECM Motors for split systems | Std Shaded Pole Motor | Retail | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.6 |
| PPL | ECM Motors for split systems | Std Shaded Pole Motor | Retail | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.6 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Retail | Cooling Unitary | Existing | building | 34,956 | 7.1% | 0.07 | 15 | \$155,056 | 25% | 0.0 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Retail | Cooling Unitary | New | building | 34,956 | 7.0% | 0.07 | 15 | \$155,056 | 35% | 0.0 |
| PPL | Hi Eff HVAC System Design | No HVAC Design | Retail | Cooling Unitary | New | building | 34,956 | 11% | 0.1 | 10 | \$15,641 | 51% | 0.1 |
| PPL | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Retail | Cooling Unitary | Existing | building | 34,956 | 5.0% | 0.05 | 5 | \$225 | 59% | 1.7 |
| PPL | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Retail | Cooling Unitary | Existing | building | 34,956 | 2.3% | 0.02 | 10 | \$1,654 | 86% | 0.2 |
| PPL | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Retail | Cooling Unitary | New | building | 34,956 | 2.3% | 0.02 | 10 | \$1,654 | 86% | 0.2 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) | Retail | Cooling Unitary | Existing | building | 34,956 | 2.0% | 0.02 | 11 | \$286 | 49% | 1.0 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Retail | Cooling Unitary | New | building | 34,956 | 1.7% | 0.02 | 11 | \$146 | 49% | 1.7 |
| PPL | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Retail | Cooling Unitary | Early | unit | 760 | 19% | 0.1 | 15 | \$849 | 85% | 0.2 |
| PPL | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Retail | Cooling Unitary | New | unit | 768 | 20% | 0.1 | 15 | \$356 | 85% | 0.5 |
| PPL | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Retail | Cooling Unitary | ROB | unit | 768 | 20% | 0.1 | 15 | \$356 | 85% | 0.5 |
| PPL | Re-Commissioning (Existing Construction) | No Re-Commissioning | Retail | Cooling Unitary | Existing | building | 34,956 | 16% | 0.2 | 5 | \$8,051 | 86% | 0.2 |
| PPL | Room AC (w/ louvered sides) | Exisiting efficiency Room AC in Pennsylvania (2000 Federal Standards) | Retail | Cooling Unitary | Early | ton | 1,061 | 13% | 0.05 | 9 | \$348 | 82% | 0.2 |
| PPL | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Retail | Cooling Unitary | New | ton | 962 | 4.5% | 0.01 | 9 | \$17 | 82% | 1.2 |
| PPL | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Retail | Cooling Unitary | ROB | ton | 962 | 4.5% | 0.01 | 9 | \$17 | 82% | 1.2 |
| PPL | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Retail | Cooling Unitary | Existing | building | 34,956 | 8.1% | 0.08 | 15 | \$5,499 | 26% | 0.3 |
| PPL | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Retail | Cooling Unitary | New | building | 34,956 | 0.3% | 0.00 | 15 | \$4,218 | 94% | 0.0 |
| PPL | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Retail | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 1.1 |
| PPL | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Retail | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.5 |
| PPL | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Retail | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.5 |
| PPL | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Retail | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 0% | 0.2 |
| PPL | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Retail | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| PPL | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Retail | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| PPL | LED exterior lighting | 250 Watt Incandescent | Retail | Ext. Lighting | ROB | measure | 475 | 83% | 0.1 | 15 | \$104 | 89% | 2.9 |
| PPL | LED exterior lighting | 250 Watt Incandescent | Retail | Ext. Lighting | ROB | measure | 431 | 83% | 0.1 | 15 | \$104 | 89% | 2.7 |
| PPL | LED exterior lighting | 250 Watt Incandescent | Retail | Ext. Lighting | ROB | measure | 431 | 83% | 0.1 | 15 | \$104 | 89% | 2.7 |
| PPL | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Retail | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 75% | 0.3 |
| PPL | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Retail | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 75% | 0.2 |
| PPL | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Retail | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.8 |
| PPL | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Retail | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.1 |
| PPL | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Retail | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 75% | 2.8 |
| PPL | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Retail | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 75% | 2.1 |
| PPL | Photocell Controls (Outdoor) | Lighting w/ No Controls | Retail | Ext. Lighting | Existing | building | 651 | 28% | 0.3 | 8 | \$1,459 | 88% | 0.1 |
| PPL | Photocell Controls (Outdoor) | Lighting w/ No Controls | Retail | Ext. Lighting | New | building | 651 | 28% | 0.3 | 8 | \$1,459 | 0% | 0.1 |
| PPL | Adding reflective roof treatment | Std color roof | Retail | Heat Pump | Existing | building | 3,556 | 6.9% | 0.07 | 6 | \$14,590 | 82% | 0.0 |
| PPL | Adding reflective roof treatment | Std color roof | Retail | Heat Pump | New | building | 3,556 | 6.9% | 0.07 | 6 | \$14,590 | 82% | 0.0 |
| PPL | Adding window shade film | No shade film | Retail | Heat Pump | Existing | building | 3,556 | 3.9% | 0.4 | 10 | \$43 | 12% | 5.8 |
| PPL | Adding window shade film | No shade film | Retail | Heat Pump | New | building | 3,556 | 3.9% | 0.4 | 10 | \$43 | 12% | 5.8 |
| PPL | Adding window shade screen | No shade screen | Retail | Heat Pump | Existing | building | 3,556 | 0.3% | 0.01 | 10 | \$17 | 12% | 1.1 |
| PPL | Adding window shade screen | No shade screen | Retail | Heat Pump | New | building | 3,556 | 0.3% | 0.01 | 10 | \$17 | 12% | 1.1 |
| PPL | Automated control system | Manual Controls | Retail | Heat Pump | Existing | building | 3,556 | 17% | 0.2 | 15 | \$3,892 | 51% | 0.1 |
| PPL | Automated control system | Manual Controls | Retail | Heat Pump | New | building | 3,556 | 17% | 0.2 | 15 | \$3,892 | 94% | 0.1 |
| PPL | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Retail | Heat Pump | Existing | building | 3,556 | 4.9% | 0.05 | 15 | \$19,662 | 71% | 0.0 |
| PPL | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Retail | Heat Pump | New | building | 3,556 | 1.6% | 0.02 | 15 | \$18,689 | 94% | 0.0 |
| PPL | Duct Insulation, Add R8 | No Insulation | Retail | Heat Pump | Existing | building | 3,556 | 4.0% | 0.04 | 15 | \$28 | 12% | 3.7 |
| PPL | Duct Insulation, Add R8 | No Insulation | Retail | Heat Pump | New | building | 3,556 | 4.0% | 0.04 | 15 | \$28 | 6% | 3.7 |
| PPL | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Retail | Heat Pump | Early | heat pump | 2,021 | 12% | 0.02 | 15 | \$4,070 | 83% | 0.0 |
| PPL | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Retail | Heat Pump | New | heat pump | 1,926 | 7.8% | 0.01 | 15 | \$1,097 | 83% | 0.1 |
| PPL | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Retail | Heat Pump | ROB | heat pump | 1,926 | 7.8% | 0.01 | 15 | \$1,097 | 83% | 0.1 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Retail | Heat Pump | Existing | building | 3,556 | 7.0% | 0.07 | 15 | \$15,772 | 25% | 0.0 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Retail | Heat Pump | New | building | 3,556 | 7.0% | 0.07 | 15 | \$15,772 | 35% | 0.0 |
| PPL | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Retail | Heat Pump | Early | heat pump | 20,847 | 16% | 0.3 | 15 | \$91,117 | 19% | 0.0 |
| PPL | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Retail | Heat Pump | New | heat pump | 20,081 | 13% | 0.2 | 15 | \$33,927 | 19% | 0.0 |
| PPL | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Retail | Heat Pump | ROB | heat pump | 20,081 | 13% | 0.2 | 15 | \$33,927 | 19% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|--|---------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Retail | Heat Pump | Early | heat pump | 20,847 | 16% | 0.3 | 15 | \$58,356 | 19% | 0.0 |
| PPL | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Retail | Heat Pump | New | heat pump | 20,081 | 13% | 0.2 | 15 | \$1,167 | 19% | 1.4 |
| PPL | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Retail | Heat Pump | ROB | heat pump | 20,081 | 13% | 0.2 | 15 | \$1,167 | 19% | 1.4 |
| PPL | Hi Eff HVAC System Design | No HVAC Design | Retail | Heat Pump | New | building | 3,556 | 11% | 0.1 | 10 | \$179,491 | 51% | 0.0 |
| PPL | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Retail | Heat Pump | Early | heat pump | 5,389 | 17% | 0.08 | 12 | \$4,298 | 81% | 0.1 |
| PPL | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Retail | Heat Pump | Early | heat pump | 5,389 | 25% | 0.1 | 12 | \$5,883 | 81% | 0.1 |
| PPL | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Retail | Heat Pump | New | heat pump | 5,136 | 12% | 0.06 | 12 | \$852 | 81% | 0.4 |
| PPL | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Retail | Heat Pump | New | heat pump | 5,136 | 22% | 0.10 | 12 | \$2,437 | 81% | 0.2 |
| PPL | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Retail | Heat Pump | ROB | heat pump | 5,136 | 12% | 0.06 | 12 | \$852 | 81% | 0.4 |
| PPL | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Retail | Heat Pump | ROB | heat pump | 5,136 | 22% | 0.10 | 12 | \$2,437 | 81% | 0.2 |
| PPL | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Retail | Heat Pump | Existing | building | 3,556 | 2.3% | 0.02 | 10 | \$1,473 | 81% | 0.0 |
| PPL | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Retail | Heat Pump | New | building | 3,556 | 2.3% | 0.02 | 10 | \$1,473 | 81% | 0.0 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Retail | Heat Pump | Existing | building | 3,556 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.2 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Retail | Heat Pump | New | building | 3,556 | 2.1% | 0.02 | 11 | \$146 | 49% | 0.3 |
| PPL | Re-Commissioning (Existing Construction) | No Re-Commissioning | Retail | Heat Pump | Existing | building | 3,556 | 16% | 0.2 | 5 | \$8,051 | 86% | 0.0 |
| PPL | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Retail | Heat Pump | New | measure | 679,680 | 2.0% | 1.6 | 13 | \$85,564 | 43% | 0.1 |
| PPL | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Retail | Heat Pump | ROB | measure | 679,680 | 2.0% | 1.6 | 13 | \$85,564 | 43% | 0.1 |
| PPL | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Retail | Heat Pump | Existing | building | 3,556 | 8.1% | 0.08 | 15 | \$5,499 | 26% | 0.0 |
| PPL | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Retail | Heat Pump | New | building | 3,556 | 0.3% | 0.00 | 15 | \$4,218 | 94% | 0.0 |
| PPL | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Retail | Heat Pump | Early | heat pump | 8,634 | 35% | 0.3 | 15 | \$35,347 | 28% | 0.1 |
| PPL | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Retail | Heat Pump | New | heat pump | 8,199 | 31% | 0.2 | 15 | \$15,739 | 28% | 0.1 |
| PPL | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Retail | Heat Pump | ROB | heat pump | 8,199 | 31% | 0.2 | 15 | \$15,739 | 28% | 0.1 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Retail | High Bay Lighting | Early | Fixture | 614 | 9.6% | 0.02 | 13 | \$875 | 39% | 0.0 |
| PPL | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Retail | High Bay Lighting | Early | Fixture | 613 | 9.5% | 0.02 | 13 | \$875 | 28% | 0.0 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Retail | High Bay Lighting | Early | Fixture | 947 | 41% | 0.1 | 13 | \$875 | 36% | 0.3 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Retail | High Bay Lighting | New | Fixture | 466 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Retail | High Bay Lighting | New | Fixture | 434 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Retail | High Bay Lighting | New | Fixture | 720 | 41% | 0.08 | 13 | \$397 | 36% | 0.5 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Retail | High Bay Lighting | ROB | Fixture | 614 | 9.6% | 0.02 | 13 | \$372 | 39% | 0.1 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Retail | High Bay Lighting | ROB | Fixture | 571 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Retail | High Bay Lighting | ROB | Fixture | 947 | 41% | 0.1 | 13 | \$397 | 36% | 0.7 |
| PPL | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Retail | High Bay Lighting | Early | Fixture | 1,192 | 19% | 0.06 | 13 | \$877 | 38% | 0.2 |
| PPL | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Retail | High Bay Lighting | Early | Fixture | 1,207 | 20% | 0.07 | 13 | \$877 | 38% | 0.2 |
| PPL | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | Early | Fixture | 3,510 | 73% | 0.7 | 13 | \$877 | 38% | 2.0 |
| PPL | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Retail | High Bay Lighting | New | Fixture | 906 | 19% | 0.05 | 13 | \$372 | 38% | 0.3 |
| PPL | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | New | Fixture | 2,667 | 73% | 0.5 | 13 | \$383 | 38% | 3.4 |
| PPL | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Retail | High Bay Lighting | ROB | Fixture | 1,192 | 19% | 0.06 | 13 | \$372 | 38% | 0.4 |
| PPL | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | ROB | Fixture | 3,510 | 73% | 0.7 | 13 | \$383 | 38% | 4.5 |
| PPL | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Retail | High Bay Lighting | Early | Fixture | 1,192 | 25% | 0.08 | 13 | \$580 | 29% | 0.3 |
| PPL | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Retail | High Bay Lighting | Early | Fixture | 1,170 | 23% | 0.07 | 13 | \$580 | 28% | 0.3 |
| PPL | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | Early | Fixture | 3,510 | 74% | 0.7 | 13 | \$580 | 36% | 3.0 |
| PPL | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Retail | High Bay Lighting | New | Fixture | 906 | 25% | 0.06 | 13 | \$75 | 29% | 2.0 |
| PPL | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | New | Fixture | 2,667 | 74% | 0.5 | 13 | \$86 | 36% | 15.6 |
| PPL | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Retail | High Bay Lighting | ROB | Fixture | 1,192 | 25% | 0.08 | 13 | \$75 | 29% | 2.6 |
| PPL | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | ROB | Fixture | 3,510 | 74% | 0.7 | 13 | \$86 | 36% | 20.5 |
| PPL | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Retail | High Bay Lighting | Early | Fixture | 311 | 0.2% | 0.00 | 13 | \$861 | 38% | 0.0 |
| PPL | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Retail | High Bay Lighting | Early | Fixture | 669 | 54% | 0.10 | 13 | \$861 | 38% | 0.3 |
| PPL | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Retail | High Bay Lighting | New | Fixture | 509 | 54% | 0.07 | 13 | \$382 | 38% | 0.5 |
| PPL | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Retail | High Bay Lighting | ROB | Fixture | 669 | 54% | 0.10 | 13 | \$382 | 38% | 0.6 |
| PPL | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Retail | High Bay Lighting | Early | Fixture | 1,518 | 18% | 0.08 | 13 | \$512 | 25% | 0.4 |
| PPL | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Retail | High Bay Lighting | Early | Fixture | 1,587 | 22% | 0.09 | 13 | \$512 | 28% | 0.5 |
| PPL | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | Early | Fixture | 3,510 | 65% | 0.6 | 13 | \$512 | 36% | 3.0 |
| PPL | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Retail | High Bay Lighting | New | Fixture | 1,154 | 18% | 0.06 | 13 | \$16 | 25% | 8.7 |
| PPL | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | New | Fixture | 2,667 | 65% | 0.5 | 13 | \$18 | 36% | 63.1 |
| PPL | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Retail | High Bay Lighting | ROB | Fixture | 1,518 | 18% | 0.08 | 13 | \$16 | 25% | 11.5 |
| PPL | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | ROB | Fixture | 3,510 | 65% | 0.6 | 13 | \$18 | 36% | 83.0 |
| PPL | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Retail | High Bay Lighting | Early | Fixture | 1,518 | 1.5% | 0.01 | 13 | \$582 | 19% | 0.0 |
| PPL | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Retail | High Bay Lighting | Early | Fixture | 1,563 | 4.3% | 0.02 | 13 | \$582 | 19% | 0.1 |
| PPL | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | Early | Fixture | 3,510 | 57% | 0.5 | 13 | \$582 | 19% | 2.3 |
| PPL | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Retail | High Bay Lighting | New | Fixture | 1,154 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| PPL | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | New | Fixture | 2,667 | 57% | 0.4 | 13 | \$88 | 19% | 11.7 |
| PPL | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Retail | High Bay Lighting | ROB | Fixture | 1,518 | 1.5% | 0.01 | 13 | \$86 | 19% | 0.2 |
| PPL | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | ROB | Fixture | 3,510 | 57% | 0.5 | 13 | \$88 | 19% | 15.4 |
| PPL | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Retail | High Bay Lighting | Early | Fixture | 645 | 29% | 0.04 | 13 | \$517 | 71% | 0.2 |
| PPL | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Retail | High Bay Lighting | Early | Fixture | 539 | 15% | 0.02 | 13 | \$517 | 95% | 0.1 |
| PPL | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Retail | High Bay Lighting | Early | Fixture | 801 | 43% | 0.07 | 13 | \$517 | 95% | 0.4 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|---|---------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Retail | High Bay Lighting | Early | Fixture | 742 | 38% | 0.05 | 13 | \$517 | 95% | 0.3 |
| PPL | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Retail | High Bay Lighting | New | Fixture | 410 | 15% | 0.01 | 13 | \$25 | 95% | 1.5 |
| PPL | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Retail | High Bay Lighting | New | Fixture | 609 | 43% | 0.05 | 13 | \$51 | 95% | 3.2 |
| PPL | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Retail | High Bay Lighting | ROB | Fixture | 539 | 15% | 0.02 | 13 | \$25 | 95% | 2.0 |
| PPL | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Retail | High Bay Lighting | ROB | Fixture | 801 | 43% | 0.07 | 13 | \$51 | 95% | 4.1 |
| PPL | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Retail | High Bay Lighting | Early | lamp | 94 | 16% | 0.00 | 11 | \$8.7 | 99% | 1.0 |
| PPL | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Retail | High Bay Lighting | New | lamp | 56 | 13% | 0.00 | 11 | \$1.6 | 91% | 2.5 |
| PPL | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Retail | High Bay Lighting | ROB | lamp | 91 | 13% | 0.00 | 11 | \$1.6 | 91% | 4.0 |
| PPL | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Retail | High Bay Lighting | Early | Fixture | 3,591 | 23% | 0.2 | 13 | \$639 | 5% | 0.9 |
| PPL | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Retail | High Bay Lighting | Early | Fixture | 2,821 | 1.6% | 0.01 | 13 | \$639 | 28% | 0.0 |
| PPL | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | Early | Fixture | 7,019 | 60% | 1.1 | 13 | \$639 | 18% | 4.5 |
| PPL | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Retail | High Bay Lighting | New | Fixture | 2,729 | 23% | 0.2 | 13 | \$96 | 5% | 4.3 |
| PPL | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Retail | High Bay Lighting | ROB | Fixture | 3,591 | 23% | 0.2 | 13 | \$96 | 5% | 5.7 |
| PPL | Auto Off Time Switch | Lighting w/ No Controls | Retail | High Bay Lighting | Existing | building | 6,716 | 24% | 0.2 | 8 | \$296 | 13% | 2.1 |
| PPL | Auto Off Time Switch | Lighting w/ No Controls | Retail | High Bay Lighting | New | building | 6,716 | 6.9% | 0.07 | 8 | \$296 | 0% | 0.6 |
| PPL | Central Lighting Control System | Lighting w/ No Controls | Retail | High Bay Lighting | Existing | building | 6,716 | 38% | 0.4 | 8 | \$296 | 13% | 3.4 |
| PPL | Central Lighting Control System | Lighting w/ No Controls | Retail | High Bay Lighting | New | building | 6,716 | 14% | 0.1 | 8 | \$296 | 13% | 1.2 |
| PPL | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Retail | High Bay Lighting | New | building | 6,716 | 10% | 0.1 | 15 | \$29,254 | 32% | 0.0 |
| PPL | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Retail | High Bay Lighting | New | building | 6,716 | 15% | 0.2 | 15 | \$73,134 | 32% | 0.0 |
| PPL | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Retail | High Bay Lighting | New | building | 6,716 | 30% | 0.3 | 15 | \$104,825 | 32% | 0.0 |
| PPL | Indoor Daylight Sensors | Lighting w/ No Controls | Retail | High Bay Lighting | Existing | building | 6,716 | 28% | 0.3 | 8 | \$1,459 | 13% | 0.5 |
| PPL | Indoor Daylight Sensors | Lighting w/ No Controls | Retail | High Bay Lighting | New | building | 6,716 | 4.0% | 0.04 | 8 | \$1,459 | 0% | 0.1 |
| PPL | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Retail | High Bay Lighting | Early | Fixture | 3,591 | 92% | 0.9 | 13 | \$1,941 | 95% | 1.1 |
| PPL | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | Early | Fixture | 7,019 | 96% | 1.8 | 13 | \$1,941 | 95% | 2.3 |
| PPL | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Retail | High Bay Lighting | New | Fixture | 2,729 | 92% | 0.7 | 13 | \$1,468 | 95% | 1.2 |
| PPL | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | New | Fixture | 5,335 | 96% | 1.4 | 13 | \$1,149 | 95% | 3.0 |
| PPL | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Retail | High Bay Lighting | ROB | Fixture | 3,591 | 92% | 0.9 | 13 | \$1,468 | 95% | 1.5 |
| PPL | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Retail | High Bay Lighting | ROB | Fixture | 7,019 | 96% | 1.8 | 13 | \$1,149 | 95% | 3.9 |
| PPL | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Retail | High Bay Lighting | Early | Fixture | 1,192 | 67% | 0.2 | 13 | \$985 | 95% | 0.5 |
| PPL | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Retail | High Bay Lighting | Early | Fixture | 3,510 | 89% | 0.8 | 13 | \$985 | 95% | 2.1 |
| PPL | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Retail | High Bay Lighting | Early | Fixture | 963 | 59% | 0.2 | 13 | \$985 | 95% | 0.4 |
| PPL | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Retail | High Bay Lighting | New | Fixture | 906 | 67% | 0.2 | 13 | \$480 | 95% | 0.8 |
| PPL | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Retail | High Bay Lighting | New | Fixture | 2,667 | 89% | 0.6 | 13 | \$491 | 95% | 3.2 |
| PPL | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Retail | High Bay Lighting | New | Fixture | 732 | 59% | 0.1 | 13 | \$406 | 95% | 0.7 |
| PPL | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Retail | High Bay Lighting | ROB | Fixture | 1,192 | 67% | 0.2 | 13 | \$480 | 95% | 1.1 |
| PPL | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Retail | High Bay Lighting | ROB | Fixture | 3,510 | 89% | 0.8 | 13 | \$491 | 95% | 4.3 |
| PPL | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Retail | High Bay Lighting | ROB | Fixture | 963 | 59% | 0.2 | 13 | \$406 | 95% | 0.9 |
| PPL | Occupancy Sensor | Lighting w/ No Controls | Retail | High Bay Lighting | Existing | building | 6,716 | 24% | 0.2 | 8 | \$447 | 12% | 1.4 |
| PPL | Occupancy Sensor | Lighting w/ No Controls | Retail | High Bay Lighting | New | building | 6,716 | 6.9% | 0.07 | 8 | \$447 | 0% | 0.4 |
| PPL | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Retail | High Bay Lighting | Existing | building | 6,716 | 28% | 0.3 | 8 | \$1,459 | 12% | 0.5 |
| PPL | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Retail | High Bay Lighting | New | building | 6,716 | 4.0% | 0.04 | 8 | \$1,459 | 0% | 0.1 |
| PPL | Time Clock Control | Lighting w/ No Controls | Retail | High Bay Lighting | Existing | building | 6,716 | 28% | 0.3 | 8 | \$296 | 13% | 2.5 |
| PPL | Time Clock Control | Lighting w/ No Controls | Retail | High Bay Lighting | New | building | 6,716 | 4.0% | 0.04 | 8 | \$296 | 0% | 0.4 |
| PPL | Auto Off Time Switch | Lighting w/ No Controls | Retail | Lin. Fluor. Lighting | Existing | building | 12,314 | 24% | 0.2 | 8 | \$296 | 13% | 3.6 |
| PPL | Auto Off Time Switch | Lighting w/ No Controls | Retail | Lin. Fluor. Lighting | New | building | 12,314 | 7.0% | 0.07 | 8 | \$296 | 0% | 1.0 |
| PPL | Central Lighting Control System | Lighting w/ No Controls | Retail | Lin. Fluor. Lighting | Existing | building | 12,314 | 38% | 0.4 | 8 | \$296 | 12% | 5.7 |
| PPL | Central Lighting Control System | Lighting w/ No Controls | Retail | Lin. Fluor. Lighting | New | building | 12,314 | 14% | 0.1 | 8 | \$296 | 12% | 2.1 |
| PPL | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Retail | Lin. Fluor. Lighting | New | building | 12,314 | 10% | 0.1 | 15 | \$29,254 | 32% | 0.0 |
| PPL | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Retail | Lin. Fluor. Lighting | New | building | 12,314 | 15% | 0.2 | 15 | \$73,134 | 32% | 0.0 |
| PPL | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Retail | Lin. Fluor. Lighting | New | building | 12,314 | 30% | 0.3 | 15 | \$104,825 | 32% | 0.0 |
| PPL | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Retail | Lin. Fluor. Lighting | Early | Lamp | 190 | 38% | 0.02 | 11 | \$8.3 | 94% | 4.8 |
| PPL | Indoor Daylight Sensors | Lighting w/ No Controls | Retail | Lin. Fluor. Lighting | Existing | building | 12,314 | 28% | 0.3 | 8 | \$1,459 | 13% | 0.9 |
| PPL | Indoor Daylight Sensors | Lighting w/ No Controls | Retail | Lin. Fluor. Lighting | New | building | 12,314 | 4.1% | 0.04 | 8 | \$1,459 | 0% | 0.1 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Retail | Lin. Fluor. Lighting | Early | Lamp | 72 | 19% | 0.00 | 15 | \$36 | 94% | 0.3 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 40W T12 Lamp, Magnetic Ballast | Retail | Lin. Fluor. Lighting | Early | Lamp | 158 | 63% | 0.03 | 15 | \$36 | 94% | 2.1 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Retail | Lin. Fluor. Lighting | Early | Lamp | 89 | 34% | 0.01 | 15 | \$36 | 94% | 0.6 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Retail | Lin. Fluor. Lighting | Early | Lamp | 86 | 32% | 0.01 | 15 | \$36 | 94% | 0.6 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Retail | Lin. Fluor. Lighting | New | Lamp | 55 | 19% | 0.00 | 15 | \$28 | 94% | 0.3 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Retail | Lin. Fluor. Lighting | New | Lamp | 65 | 32% | 0.01 | 15 | \$29 | 94% | 0.6 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Retail | Lin. Fluor. Lighting | New | Lamp | 67 | 34% | 0.01 | 15 | \$22 | 94% | 0.8 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Retail | Lin. Fluor. Lighting | New | Lamp | 65 | 32% | 0.01 | 15 | \$29 | 94% | 0.6 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Retail | Lin. Fluor. Lighting | ROB | Lamp | 72 | 19% | 0.00 | 15 | \$28 | 94% | 0.4 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Retail | Lin. Fluor. Lighting | ROB | Lamp | 86 | 32% | 0.01 | 15 | \$29 | 94% | 0.7 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Retail | Lin. Fluor. Lighting | ROB | Lamp | 89 | 34% | 0.01 | 15 | \$22 | 94% | 1.1 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Retail | Lin. Fluor. Lighting | ROB | Lamp | 86 | 32% | 0.01 | 15 | \$29 | 94% | 0.7 |
| PPL | Occupancy Sensor | Lighting w/ No Controls | Retail | Lin. Fluor. Lighting | Existing | building | 12,314 | 24% | 0.2 | 8 | \$447 | 13% | 2.4 |
| PPL | Occupancy Sensor | Lighting w/ No Controls | Retail | Lin. Fluor. Lighting | New | building | 12,314 | 6.9% | 0.07 | 8 | \$447 | 0% | 0.7 |
| PPL | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Retail | Lin. Fluor. Lighting | Existing | building | 12,314 | 28% | 0.3 | 8 | \$1,459 | 12% | 0.9 |
| PPL | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Retail | Lin. Fluor. Lighting | New | building | 12,314 | 4.1% | 0.04 | 8 | \$1,459 | 0% | 0.1 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 40W T12 w/ Magnetic Ballast | Retail | Lin. Fluor. Lighting | Early | Lamp | 190 | 54% | 0.02 | 11 | \$9.1 | 94% | 6.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|--|---------|---------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | ASD HVAC Fan | Std. HVAC Fan | Retail | Motors | New | measure | 3,330 | 9.1% | 0.03 | 15 | \$8,846 | 85% | 0.0 |
| PPL | ASD HVAC Fan | Std. HVAC Fan | Retail | Motors | ROB | measure | 3,330 | 9.1% | 0.03 | 15 | \$8,846 | 85% | 0.0 |
| PPL | CO sensors for parking garage exhaust fans | No CO Sensors | Retail | Motors | Existing | building | 791 | 45% | 0.5 | 8 | \$79 | 4% | 4.0 |
| PPL | Downsizing motor during retrofit | Larger hp standard motor | Retail | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 21.3 |
| PPL | Downsizing motor during retrofit | Larger hp standard motor | Retail | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 21.6 |
| PPL | Downsizing motor during retrofit | Larger hp standard motor | Retail | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 22.2 |
| PPL | Downsizing motor during retrofit | Larger hp standard motor | Retail | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 23.6 |
| PPL | Downsizing motor during retrofit | Larger hp standard motor | Retail | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 23.0 |
| PPL | Downsizing motor during retrofit | Larger hp standard motor | Retail | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 21.0 |
| PPL | Downsizing motor during retrofit | Larger hp standard motor | Retail | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 21.9 |
| PPL | Downsizing motor during retrofit | Larger hp standard motor | Retail | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 22.1 |
| PPL | Downsizing motor during retrofit | Larger hp standard motor | Retail | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 23.7 |
| PPL | Downsizing motor during retrofit | Larger hp standard motor | Retail | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 23.1 |
| PPL | Escalator Motor Controller | Constant power control | Retail | Motors | New | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 67% | 6.0 |
| PPL | Escalator Motor Controller | Constant power control | Retail | Motors | ROB | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 67% | 6.0 |
| PPL | Variable Speed Drive Control, 15HP | Existing Motors w/out VFD Drive | Retail | Motors | Early | motor | 14,670 | 72% | 1.5 | 15 | \$791 | 86% | 9.0 |
| PPL | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VFD Drive | Retail | Motors | New | motor | 14,342 | 72% | 1.5 | 15 | \$731 | 86% | 9.5 |
| PPL | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VFD Drive | Retail | Motors | ROB | motor | 14,342 | 72% | 1.5 | 15 | \$731 | 86% | 9.5 |
| PPL | Variable Speed Drive Control, 40HP | Existing Motors w/out VSD Drive | Retail | Motors | Early | motor | 110,420 | 71% | 11.5 | 15 | \$4,726 | 86% | 11.1 |
| PPL | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Retail | Motors | New | motor | 109,129 | 72% | 11.5 | 15 | \$4,666 | 86% | 11.3 |
| PPL | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Retail | Motors | ROB | motor | 109,129 | 72% | 11.5 | 15 | \$4,666 | 86% | 11.3 |
| PPL | Variable Speed Drive Control, 5HP | Existing Motors w/out VSD Drive | Retail | Motors | Early | motor | 42,317 | 70% | 4.4 | 15 | \$2,303 | 86% | 8.7 |
| PPL | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VSD Drive | Retail | Motors | New | motor | 41,407 | 72% | 4.4 | 15 | \$2,243 | 86% | 8.9 |
| PPL | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VSD Drive | Retail | Motors | ROB | motor | 41,407 | 72% | 4.4 | 15 | \$2,243 | 86% | 8.9 |
| PPL | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Retail | Motors | Early | motor | 3,501 | 32% | 0.1 | 15 | \$328 | 13% | 2.2 |
| PPL | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Retail | Motors | New | motor | 3,501 | 32% | 0.1 | 15 | \$268 | 13% | 2.7 |
| PPL | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Retail | Motors | ROB | motor | 3,501 | 32% | 0.1 | 15 | \$268 | 13% | 2.7 |
| PPL | VFD on Chilled Water Pump | Motor w/out VFD Drive | Retail | Motors | Early | motor | 27,193 | 54% | 2.7 | 15 | \$2,903 | 86% | 3.4 |
| PPL | VFD on Chilled Water Pump | Motor w/out VFD Drive | Retail | Motors | New | motor | 26,685 | 55% | 2.7 | 15 | \$2,843 | 86% | 3.5 |
| PPL | VFD on Chilled Water Pump | Motor w/out VFD Drive | Retail | Motors | ROB | motor | 26,685 | 55% | 2.7 | 15 | \$2,843 | 86% | 3.5 |
| PPL | VFD on Condenser Water Pump | Motor w/out VFD Drive | Retail | Motors | Early | motor | 26,568 | 33% | 3.2 | 15 | \$2,903 | 86% | 2.4 |
| PPL | VFD on Condenser Water Pump | Motor w/out VFD Drive | Retail | Motors | New | motor | 26,071 | 33% | 3.1 | 15 | \$2,843 | 86% | 2.4 |
| PPL | VFD on Condenser Water Pump | Motor w/out VFD Drive | Retail | Motors | ROB | motor | 26,071 | 33% | 3.1 | 15 | \$2,843 | 86% | 2.4 |
| PPL | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Retail | Motors | Early | motor | 24,609 | 56% | 0.00 | 15 | \$2,903 | 86% | 2.6 |
| PPL | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Retail | Motors | New | motor | 24,149 | 57% | 0.00 | 15 | \$2,843 | 86% | 2.6 |
| PPL | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Retail | Motors | ROB | motor | 24,149 | 57% | 0.00 | 15 | \$2,843 | 86% | 2.6 |
| PPL | VFD on HVAC Fan | Motor w/out VFD | Retail | Motors | Early | motor | 27,193 | 70% | 3.4 | 15 | \$2,903 | 86% | 4.6 |
| PPL | VFD on HVAC Fan | Motor w/out VFD | Retail | Motors | New | motor | 26,685 | 72% | 3.3 | 15 | \$2,843 | 86% | 4.7 |
| PPL | VFD on HVAC Fan | Motor w/out VFD | Retail | Motors | ROB | motor | 26,685 | 72% | 3.3 | 15 | \$2,843 | 86% | 4.7 |
| PPL | Elevators | Std. Eff Elevator | Retail | Other | ROB | measure | 89,016 | 0.6% | 0.07 | 15 | \$126 | 63% | 2.7 |
| PPL | Variable Speed Drives on Process Equipment | Constant speed control | Retail | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 10.4 |
| PPL | Variable Speed Drives on Process Equipment | Constant speed control | Retail | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 10.4 |
| PPL | Auto Off Time Switch | Lighting w/ No Controls | Retail | Other Int. Lighting | Existing | building | 5,623 | 24% | 0.2 | 8 | \$296 | 13% | 1.8 |
| PPL | Auto Off Time Switch | Lighting w/ No Controls | Retail | Other Int. Lighting | New | building | 5,623 | 7.0% | 0.07 | 8 | \$296 | 0% | 0.5 |
| PPL | Central Lighting Control System | Lighting w/ No Controls | Retail | Other Int. Lighting | Existing | building | 5,623 | 38% | 0.4 | 8 | \$296 | 13% | 2.9 |
| PPL | Central Lighting Control System | Lighting w/ No Controls | Retail | Other Int. Lighting | New | building | 5,623 | 14% | 0.1 | 8 | \$296 | 13% | 1.1 |
| PPL | Cold Cathode Screw-In Bulb | 40W Incandescent Bulb | Retail | Other Int. Lighting | Early | lamp | 167 | 87% | 0.04 | 9 | \$33 | 14% | 2.2 |
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Retail | Other Int. Lighting | Early | lamp | 119 | 81% | 0.03 | 9 | \$33 | 11% | 1.5 |
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Retail | Other Int. Lighting | New | lamp | 91 | 81% | 0.02 | 9 | \$24 | 14% | 1.5 |
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Retail | Other Int. Lighting | New | lamp | 91 | 81% | 0.02 | 9 | \$25 | 14% | 1.4 |
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Retail | Other Int. Lighting | New | lamp | 91 | 81% | 0.02 | 9 | \$24 | 11% | 1.5 |
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Retail | Other Int. Lighting | ROB | lamp | 119 | 81% | 0.03 | 9 | \$24 | 14% | 2.0 |
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Retail | Other Int. Lighting | ROB | lamp | 119 | 81% | 0.03 | 9 | \$25 | 14% | 1.9 |
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Retail | Other Int. Lighting | ROB | lamp | 119 | 81% | 0.03 | 9 | \$24 | 11% | 2.0 |
| PPL | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Retail | Other Int. Lighting | Early | lamp | 167 | 75% | 0.03 | 3 | \$73 | 39% | 0.3 |
| PPL | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Retail | Other Int. Lighting | New | lamp | 181 | 65% | 0.03 | 13 | \$29 | 46% | 2.8 |
| PPL | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Retail | Other Int. Lighting | New | lamp | 91 | 65% | 0.02 | 3 | \$29 | 46% | 0.4 |
| PPL | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Retail | Other Int. Lighting | ROB | lamp | 239 | 65% | 0.04 | 13 | \$29 | 39% | 3.7 |
| PPL | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Retail | Other Int. Lighting | ROB | lamp | 119 | 65% | 0.02 | 3 | \$29 | 39% | 0.5 |
| PPL | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Retail | Other Int. Lighting | Early | lamp | 167 | 75% | 0.03 | 3 | \$3.6 | 24% | 6.4 |
| PPL | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Retail | Other Int. Lighting | New | lamp | 91 | 65% | 0.02 | 3 | \$1.8 | 24% | 6.2 |
| PPL | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Retail | Other Int. Lighting | ROB | lamp | 119 | 65% | 0.02 | 3 | \$1.8 | 24% | 8.2 |
| PPL | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Retail | Other Int. Lighting | ROB | lamp | 119 | 65% | 0.02 | 3 | \$1.8 | 24% | 8.2 |
| PPL | Exit Sign Retrofit: CFL replacing Incandescent | One 23W Single Sided Incandescent Exit Sign | Retail | Other Int. Lighting | Early | exit sign | 130 | 42% | 0.01 | 15 | \$78 | 22% | 0.5 |
| PPL | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Retail | Other Int. Lighting | New | building | 5,623 | 10% | 0.1 | 15 | \$29,254 | 32% | 0.0 |
| PPL | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Retail | Other Int. Lighting | New | building | 5,623 | 15% | 0.2 | 15 | \$73,134 | 32% | 0.0 |
| PPL | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Retail | Other Int. Lighting | New | building | 5,623 | 30% | 0.3 | 15 | \$104,825 | 32% | 0.0 |
| PPL | Indoor Daylight Sensors | Lighting w/ No Controls | Retail | Other Int. Lighting | Existing | building | 5,623 | 28% | 0.3 | 8 | \$1,459 | 13% | 0.4 |
| PPL | Indoor Daylight Sensors | Lighting w/ No Controls | Retail | Other Int. Lighting | New | building | 5,623 | 4.1% | 0.04 | 8 | \$1,459 | 0% | 0.1 |
| PPL | LED Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Retail | Other Int. Lighting | Early | sign | 153 | 87% | 0.02 | 15 | \$78 | 16% | 1.1 |
| PPL | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Retail | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 2.0 |
| PPL | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Retail | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 2.0 |
| PPL | LED Task Lighting/Screw-In | 1 15W CFL bulb | Retail | Other Int. Lighting | Early | lamp | 34 | 33% | 0.00 | 10 | \$9.6 | 24% | 0.4 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|---|---------|---------------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | LED Task Lighting/Screw-In | 1 60W Incandescent Bulb | Retail | Other Int. Lighting | Early | lamp | 136 | 83% | 0.03 | 10 | \$9.6 | 24% | 4.0 |
| PPL | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Retail | Other Int. Lighting | New | lamp | 74 | 77% | 0.02 | 10 | \$7.9 | 24% | 2.4 |
| PPL | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Retail | Other Int. Lighting | New | lamp | 74 | 77% | 0.02 | 10 | \$7.9 | 24% | 2.4 |
| PPL | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Retail | Other Int. Lighting | ROB | lamp | 98 | 77% | 0.02 | 10 | \$7.9 | 24% | 3.2 |
| PPL | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Retail | Other Int. Lighting | ROB | lamp | 98 | 77% | 0.02 | 10 | \$7.9 | 24% | 3.2 |
| PPL | Occupancy Sensor | Lighting w/ No Controls | Retail | Other Int. Lighting | Existing | building | 5,623 | 24% | 0.2 | 8 | \$447 | 12% | 1.2 |
| PPL | Occupancy Sensor | Lighting w/ No Controls | Retail | Other Int. Lighting | New | building | 5,623 | 7.0% | 0.07 | 8 | \$447 | 0% | 0.4 |
| PPL | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Retail | Other Int. Lighting | Existing | building | 5,623 | 28% | 0.3 | 8 | \$1,459 | 12% | 0.4 |
| PPL | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Retail | Other Int. Lighting | New | building | 5,623 | 4.1% | 0.04 | 8 | \$1,459 | 0% | 0.1 |
| PPL | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Retail | Other Int. Lighting | Early | exit sign | 130 | 100% | 0.02 | 15 | \$203 | 26% | 0.4 |
| PPL | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Retail | Other Int. Lighting | New | exit sign | 75 | 100% | 0.01 | 15 | \$148 | 31% | 0.3 |
| PPL | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Retail | Other Int. Lighting | ROB | exit sign | 75 | 100% | 0.01 | 15 | \$148 | 26% | 0.3 |
| PPL | Time Clock Control | Lighting w/ No Controls | Retail | Other Int. Lighting | Existing | building | 5,623 | 28% | 0.3 | 8 | \$296 | 13% | 2.1 |
| PPL | Time Clock Control | Lighting w/ No Controls | Retail | Other Int. Lighting | New | building | 5,623 | 4.1% | 0.04 | 8 | \$296 | 0% | 0.3 |
| PPL | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Retail | Plug Load | Existing | building | 2,913 | 46% | 0.5 | 5 | \$189 | 4% | 2.2 |
| PPL | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Retail | Plug Load | New | building | 1,422 | 46% | 0.5 | 5 | \$189 | 4% | 1.5 |
| PPL | Data Center - Server/Storage Consolidation | No Consolidation | Retail | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PPL | Data Center - Server/Storage Consolidation | No Consolidation | Retail | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PPL | Data Center - Server/Storage Virtualization | No Virtualization | Retail | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PPL | Data Center - Server/Storage Virtualization | No Virtualization | Retail | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PPL | Energy Star - Scanners | Std Scanner | Retail | Plug Load | New | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| PPL | Energy Star - Scanners | Std Scanner | Retail | Plug Load | ROB | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| PPL | Energy Star Battery Charging System (for small cordless products) | Std. Battery Charging System | Retail | Plug Load | ROB | measure | 593 | 2.3% | 0.1 | 5 | \$65 | 4% | 0.6 |
| PPL | Energy Star Dishwasher | Existing Dishwasher units | Retail | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,580 | 1% | 1.0 |
| PPL | Energy Star Dishwasher | Standard Dishwasher unit | Retail | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 1% | 3.3 |
| PPL | Energy Star Dishwasher | Standard Dishwasher unit | Retail | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 1% | 3.3 |
| PPL | Energy Star External Power Adapter | Std. Power Adapter | Retail | Plug Load | New | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| PPL | Energy Star External Power Adapter | Std. Power Adapter | Retail | Plug Load | ROB | measure | 394 | 3.1% | 0.00 | 5 | \$7.5 | 4% | 0.4 |
| PPL | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Retail | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 17% | 0.1 |
| PPL | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Retail | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 1.6 |
| PPL | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Retail | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 1.6 |
| PPL | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Retail | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 9% | 0.8 |
| PPL | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Retail | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.6 |
| PPL | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Retail | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.6 |
| PPL | ENERGY STAR® Copiers | 10% Less Efficient Copier | Retail | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 18% | 0.0 |
| PPL | ENERGY STAR® Copiers | One Conventional Copier | Retail | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| PPL | ENERGY STAR® Copiers | One Conventional Copier | Retail | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 18% | 0.0 |
| PPL | ENERGY STAR® desktop | Standard computer | Retail | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 69% | 0.1 |
| PPL | ENERGY STAR® desktop | Standard computer | Retail | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.2 |
| PPL | ENERGY STAR® desktop | Standard computer | Retail | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.2 |
| PPL | ENERGY STAR® Fax | 10% Less Efficient Fax | Retail | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 15% | 0.0 |
| PPL | ENERGY STAR® Fax | One Conventional Fax | Retail | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| PPL | ENERGY STAR® Fax | One Conventional Fax | Retail | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| PPL | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Retail | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 70% | 0.0 |
| PPL | ENERGY STAR® Monitors | One Conventional Monitor | Retail | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| PPL | ENERGY STAR® Monitors | One Conventional Monitor | Retail | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 70% | 0.0 |
| PPL | ENERGY STAR® Printers | 10% Less Efficient Printer | Retail | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 44% | 0.0 |
| PPL | ENERGY STAR® Printers | One Conventional Printer | Retail | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| PPL | ENERGY STAR® Printers | One Conventional Printer | Retail | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$130 | 44% | 0.3 |
| PPL | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Retail | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 43% | 0.1 |
| PPL | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Retail | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.8 |
| PPL | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Retail | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.8 |
| PPL | ENERGY STAR® Televisions | 10% Less Efficient Television | Retail | Plug Load | Early | Unit | 228 | 38% | 0.02 | 6 | \$672 | 40% | 0.0 |
| PPL | ENERGY STAR® Televisions | One Conventional Television | Retail | Plug Load | New | Unit | 207 | 32% | 0.02 | 6 | \$206 | 40% | 0.1 |
| PPL | ENERGY STAR® Televisions | One Conventional Television | Retail | Plug Load | ROB | Unit | 207 | 32% | 0.02 | 6 | \$206 | 40% | 0.1 |
| PPL | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Retail | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 24% | 0.3 |
| PPL | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Retail | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.6 |
| PPL | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Retail | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.6 |
| PPL | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Retail | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.2 |
| PPL | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Retail | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.2 |
| PPL | Network PC Power Management | No PC Power Management | Retail | Plug Load | Existing | computer | 425 | 33% | 0.01 | 5 | \$30 | 38% | 1.0 |
| PPL | Network PC Power Management | No PC Power Management | Retail | Plug Load | New | computer | 425 | 33% | 0.01 | 5 | \$30 | 38% | 1.0 |
| PPL | Smart Strip Plug Outlets | Standard plug strip/outlet | Retail | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.4 |
| PPL | Smart Strip Plug Outlets | Standard plug strip/outlet | Retail | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.4 |
| PPL | Smart Strip Plug Outlets | Standard plug strip/outlet | Retail | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PPL | Smart Strip Plug Outlets | Standard plug strip/outlet | Retail | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PPL | Smart Strip Plug Outlets | Standard plug strip/outlet | Retail | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PPL | Smart Strip Plug Outlets | Standard plug strip/outlet | Retail | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|--|---------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Retail | Plug Load | Existing | building | 2,913 | 46% | 0.5 | 5 | \$180 | 3% | 2.3 |
| PPL | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Retail | Plug Load | New | building | 1,422 | 46% | 0.5 | 5 | \$180 | 3% | 1.5 |
| PPL | Air curtain technology | Strip plastic curtain | Retail | Refrigeration | New | building | 6,250 | 6.8% | 0.07 | 8 | \$741 | 35% | 0.2 |
| PPL | Air curtain technology | Strip plastic curtain | Retail | Refrigeration | New | building | 3,611 | 6.8% | 0.07 | 8 | \$741 | 35% | 0.1 |
| PPL | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Retail | Refrigeration | Existing | building | 1,011 | 7.7% | 0.08 | 12 | \$70 | 11% | 1.2 |
| PPL | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Retail | Refrigeration | New | building | 1,011 | 7.7% | 0.08 | 12 | \$70 | 11% | 1.2 |
| PPL | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Retail | Refrigeration | Existing | building | 1,011 | 9.7% | 0.10 | 12 | \$70 | 11% | 1.5 |
| PPL | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Retail | Refrigeration | New | building | 1,011 | 9.7% | 0.10 | 12 | \$70 | 11% | 1.5 |
| PPL | Auto Closer on Refrigerator Door | Door w/out Autocloser | Retail | Refrigeration | Existing | building | 3,611 | 31% | 0.3 | 8 | \$963 | 40% | 0.5 |
| PPL | Auto Closer on Refrigerator Door | Door w/out Autocloser | Retail | Refrigeration | Existing | building | 6,250 | 13% | 0.1 | 8 | \$728 | 40% | 0.4 |
| PPL | Auto Closer on Refrigerator Door | Door w/out Autocloser | Retail | Refrigeration | New | building | 3,611 | 31% | 0.3 | 8 | \$963 | 40% | 0.5 |
| PPL | Auto Closer on Refrigerator Door | Door w/out Autocloser | Retail | Refrigeration | New | building | 6,250 | 13% | 0.1 | 8 | \$728 | 40% | 0.4 |
| PPL | Demand Hot Gas Defrost | Base Refrigeration System | Retail | Refrigeration | Existing | measure | 1,011 | 3.0% | 0.03 | 10 | \$1,314 | 0% | 0.0 |
| PPL | Demand Hot Gas Defrost | Base Refrigeration System | Retail | Refrigeration | New | measure | 1,011 | 3.0% | 0.03 | 10 | \$1,314 | 0% | 0.0 |
| PPL | Door Gasket- Freezer | Door w/out Gasket | Retail | Refrigeration | Existing | building | 3,611 | 4.2% | 0.2 | 4 | \$22 | 29% | 3.0 |
| PPL | Door Gasket- Freezer | Door w/out Gasket | Retail | Refrigeration | New | building | 3,611 | 2.8% | 0.1 | 4 | \$15 | 29% | 3.0 |
| PPL | Door Gasket- Refrigerator | Door w/out Gasket | Retail | Refrigeration | Existing | building | 6,250 | 4.1% | 0.04 | 4 | \$101 | 45% | 0.5 |
| PPL | Door Gasket- Refrigerator | Door w/out Gasket | Retail | Refrigeration | New | building | 6,250 | 4.1% | 0.04 | 4 | \$101 | 45% | 0.5 |
| PPL | Economizer for Walk-in Coolers | No Economizer | Retail | Refrigeration | Early | measure | 11,267 | 6.6% | 0.1 | 10 | \$131 | 72% | 2.5 |
| PPL | Economizer for Walk-in Coolers | No Economizer | Retail | Refrigeration | Early | measure | 11,267 | 6.6% | 0.1 | 10 | \$131 | 72% | 2.5 |
| PPL | Economizer for Walk-in Coolers | No Economizer | Retail | Refrigeration | Early | measure | 11,267 | 6.6% | 0.1 | 10 | \$131 | 72% | 2.5 |
| PPL | Economizer for Walk-in Coolers | No Economizer | Retail | Refrigeration | New | measure | 11,267 | 6.6% | 0.1 | 10 | \$15 | 72% | 21.3 |
| PPL | Economizer for Walk-in Coolers | No Economizer | Retail | Refrigeration | New | measure | 11,267 | 6.6% | 0.1 | 10 | \$15 | 72% | 21.3 |
| PPL | Economizer for Walk-in Coolers | No Economizer | Retail | Refrigeration | New | measure | 11,267 | 6.6% | 0.1 | 10 | \$15 | 72% | 21.3 |
| PPL | Economizer for Walk-in Coolers | No Economizer | Retail | Refrigeration | ROB | measure | 11,267 | 6.6% | 0.1 | 10 | \$15 | 72% | 21.3 |
| PPL | Economizer for Walk-in Coolers | No Economizer | Retail | Refrigeration | ROB | measure | 11,267 | 6.6% | 0.1 | 10 | \$15 | 72% | 21.3 |
| PPL | Economizer for Walk-in Coolers | No Economizer | Retail | Refrigeration | ROB | measure | 11,267 | 6.6% | 0.1 | 10 | \$15 | 72% | 21.3 |
| PPL | eCube | Refrigeration unit w/out eCube | Retail | Refrigeration | Existing | building | 6,250 | 15% | 0.2 | 15 | \$413 | 57% | 1.5 |
| PPL | eCube | Refrigeration unit w/out eCube | Retail | Refrigeration | New | building | 6,250 | 15% | 0.2 | 15 | \$413 | 57% | 1.5 |
| PPL | Efficient compressor motor | Base Refrigeration System - Grocery | Retail | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| PPL | Efficient compressor motor | Base Refrigeration System - Grocery | Retail | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| PPL | Efficient compressor motor | Base Refrigeration System - Grocery | Retail | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| PPL | Efficient compressor motor | Base Refrigeration System - Grocery | Retail | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| PPL | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Retail | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.6 |
| PPL | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Retail | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| PPL | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Retail | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| PPL | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Retail | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.3 |
| PPL | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Retail | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.7 |
| PPL | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Retail | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.7 |
| PPL | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Retail | Refrigeration | Existing | building | 6,250 | 1.5% | 0.02 | 10 | \$369 | 77% | 0.1 |
| PPL | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Retail | Refrigeration | New | building | 6,250 | 1.5% | 0.02 | 10 | \$369 | 77% | 0.1 |
| PPL | Floating head pressure controller | System w/out FHPC | Retail | Refrigeration | Existing | building | 3,611 | 2.2% | 0.02 | 15 | \$8,682 | 41% | 0.0 |
| PPL | Floating head pressure controller | System w/out FHPC | Retail | Refrigeration | Existing | building | 1,011 | 1.0% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| PPL | Floating head pressure controller | System w/out FHPC | Retail | Refrigeration | Existing | building | 6,250 | 0.9% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| PPL | Floating head pressure controller | System w/out FHPC | Retail | Refrigeration | New | building | 3,611 | 2.2% | 0.02 | 15 | \$8,682 | 41% | 0.0 |
| PPL | Floating head pressure controller | System w/out FHPC | Retail | Refrigeration | New | building | 1,011 | 1.0% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| PPL | Floating head pressure controller | System w/out FHPC | Retail | Refrigeration | New | building | 6,250 | 0.9% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| PPL | High Efficiency Commercial Freezer | Std. Commercial Freezer | Retail | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 86% | 0.3 |
| PPL | High Efficiency Commercial Freezer | Std. Commercial Freezer | Retail | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 3.9 |
| PPL | High Efficiency Commercial Freezer | Std. Commercial Freezer | Retail | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 3.9 |
| PPL | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Retail | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 2% | 0.1 |
| PPL | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Retail | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.9 |
| PPL | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Retail | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.9 |
| PPL | High Efficiency Ice Maker | Existing Standard Efficiency Ice Maker in Pennsylvania | Retail | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 73% | 0.2 |
| PPL | High Efficiency Ice Maker | Standard code minimum Ice Maker | Retail | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| PPL | High Efficiency Ice Maker | Standard code minimum Ice Maker | Retail | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| PPL | High Efficiency Ice Making Head | Standard Ice Making Head | Retail | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.7 |
| PPL | High Efficiency Ice Making Head | Standard Ice Making Head | Retail | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.7 |
| PPL | High R-Value Glass Doors | Base Refrigeration System - Grocery | Retail | Refrigeration | Existing | building | 1,011 | 0.7% | 0.01 | 10 | \$17 | 0% | 0.4 |
| PPL | High R-Value Glass Doors | Base Refrigeration System - Grocery | Retail | Refrigeration | New | building | 1,011 | 0.7% | 0.01 | 10 | \$17 | 0% | 0.4 |
| PPL | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Retail | Refrigeration | Early | Fixture | 373 | 56% | 0.02 | 8 | \$448 | 47% | 0.2 |
| PPL | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Retail | Refrigeration | New | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 47% | 0.3 |
| PPL | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Retail | Refrigeration | ROB | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 47% | 0.3 |
| PPL | No-heat glass doors | Standard low-temp reach-in | Retail | Refrigeration | Existing | building | 1,011 | 20% | 0.2 | 10 | \$1,519 | 8% | 0.1 |
| PPL | No-heat glass doors | Standard low-temp reach-in | Retail | Refrigeration | New | building | 1,011 | 20% | 0.2 | 10 | \$1,519 | 8% | 0.1 |
| PPL | Quick acting freezer doors | Std. Freezer Doors | Retail | Refrigeration | Existing | building | 3,611 | 13% | 0.1 | 10 | \$894 | 56% | 0.3 |
| PPL | Quick acting freezer doors | Std. Freezer Doors | Retail | Refrigeration | New | building | 3,611 | 13% | 0.1 | 10 | \$894 | 56% | 0.3 |
| PPL | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Retail | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 30% | 0.4 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|--|---------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Retail | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.6 |
| PPL | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Retail | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.6 |
| PPL | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 30% | 1.6 |
| PPL | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 2.8 |
| PPL | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 2.8 |
| PPL | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 30% | 1.6 |
| PPL | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 3.8 |
| PPL | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 3.8 |
| PPL | Refrigeration Commissioning | Non-commissioned refrigeration system | Retail | Refrigeration | Existing | building | 11,267 | 9.5% | 0.10 | 3 | \$1,199 | 85% | 0.1 |
| PPL | Refrigeration Commissioning | Non-commissioned refrigeration system | Retail | Refrigeration | New | building | 11,267 | 9.5% | 0.10 | 3 | \$1,199 | 85% | 0.1 |
| PPL | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Retail | Refrigeration | Existing | building | 3,611 | 40% | 0.4 | 4 | \$120 | 22% | 2.8 |
| PPL | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Retail | Refrigeration | Existing | building | 6,250 | 5.7% | 0.06 | 4 | \$122 | 22% | 0.6 |
| PPL | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Retail | Refrigeration | New | building | 3,611 | 40% | 0.4 | 4 | \$120 | 22% | 2.8 |
| PPL | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Retail | Refrigeration | New | building | 6,250 | 5.7% | 0.06 | 4 | \$122 | 22% | 0.6 |
| PPL | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Retail | Refrigeration | Existing | building | 3,611 | 5.6% | 0.06 | 11 | \$127 | 79% | 0.9 |
| PPL | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Retail | Refrigeration | New | building | 3,611 | 5.6% | 0.06 | 11 | \$127 | 79% | 0.9 |
| PPL | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Retail | Refrigeration | Existing | building | 6,250 | 4.3% | 0.04 | 11 | \$127 | 79% | 1.0 |
| PPL | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Retail | Refrigeration | New | building | 6,250 | 4.3% | 0.04 | 11 | \$127 | 79% | 1.0 |
| PPL | Vendor Miser | No Vendor Miser | Retail | Refrigeration | Existing | machine | 394 | 12% | 0.1 | 8 | \$39 | 7% | 1.8 |
| PPL | Vertical Night Covers | Display cases w/out night covers-High Temperature | Retail | Refrigeration | Existing | building | 1,011 | 0.6% | 0.01 | 5 | \$56 | 9% | 0.1 |
| PPL | Vertical Night Covers | Display cases w/out night covers-High Temperature | Retail | Refrigeration | New | building | 1,011 | 0.6% | 0.01 | 5 | \$56 | 9% | 0.1 |
| PPL | VSD Controlled Compressor | Compressor w/out VSD | Retail | Refrigeration | Early | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |
| PPL | VSD Controlled Compressor | Compressor w/out VSD | Retail | Refrigeration | New | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |
| PPL | VSD Controlled Compressor | Compressor w/out VSD | Retail | Refrigeration | ROB | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |
| PPL | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Retail | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$269 | 24% | 0.9 |
| PPL | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Retail | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$269 | 24% | 0.8 |
| PPL | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Retail | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 24% | 3.0 |
| PPL | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Retail | Refrigeration | New | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 24% | 2.9 |
| PPL | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Retail | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 24% | 3.0 |
| PPL | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Retail | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 24% | 2.9 |
| PPL | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 24% | 2.3 |
| PPL | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 24% | 2.2 |
| PPL | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$151 | 24% | 4.1 |
| PPL | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$151 | 24% | 3.9 |
| PPL | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$151 | 24% | 4.1 |
| PPL | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Retail | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$151 | 24% | 3.9 |
| PPL | Adding reflective roof treatment | Std color roof | Retail | Space Heating | Existing | building | 18,189 | 7.1% | 0.07 | 6 | \$14,590 | 82% | 0.0 |
| PPL | Adding reflective roof treatment | Std color roof | Retail | Space Heating | New | building | 18,189 | 7.1% | 0.07 | 6 | \$14,590 | 82% | 0.0 |
| PPL | Adding window shade film | No shade film | Retail | Space Heating | Existing | building | 18,189 | 1.3% | 0.4 | 10 | \$221 | 13% | 1.3 |
| PPL | Adding window shade film | No shade film | Retail | Space Heating | New | building | 18,189 | 1.3% | 0.4 | 10 | \$221 | 13% | 1.3 |
| PPL | Adding window shade screen | No shade screen | Retail | Space Heating | Existing | building | 18,189 | 1.1% | 0.01 | 10 | \$86 | 13% | 1.0 |
| PPL | Adding window shade screen | No shade screen | Retail | Space Heating | New | building | 18,189 | 1.1% | 0.01 | 10 | \$86 | 13% | 1.0 |
| PPL | Automated control system | Manual Controls | Retail | Space Heating | Existing | building | 18,189 | 17% | 0.2 | 15 | \$19,913 | 51% | 0.1 |
| PPL | Automated control system | Manual Controls | Retail | Space Heating | New | building | 18,189 | 17% | 0.2 | 15 | \$19,913 | 94% | 0.1 |
| PPL | Ceiling Insulations (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Retail | Space Heating | Existing | building | 18,189 | 4.9% | 0.05 | 15 | \$19,662 | 71% | 0.0 |
| PPL | Ceiling Insulations (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Retail | Space Heating | New | building | 18,189 | 1.6% | 0.02 | 15 | \$18,689 | 94% | 0.0 |
| PPL | Duct Insulation, Add R8 | No Insulation | Retail | Space Heating | Existing | building | 18,189 | 1.4% | 0.04 | 15 | \$144 | 20% | 1.2 |
| PPL | Duct Insulation, Add R8 | No Insulation | Retail | Space Heating | New | building | 18,189 | 1.4% | 0.04 | 15 | \$144 | 10% | 1.2 |
| PPL | Efficient Unit Heating System | Existing Unit Heaters in PA | Retail | Space Heating | Early | heater | 26,716 | 23% | 0.05 | 15 | \$3,289 | 83% | 1.0 |
| PPL | Efficient Unit Heating System | Std. Unit Heater | Retail | Space Heating | New | heater | 23,710 | 13% | 0.02 | 15 | \$1,985 | 83% | 0.9 |
| PPL | Efficient Unit Heating System | Std. Unit Heater | Retail | Space Heating | ROB | heater | 23,710 | 13% | 0.02 | 15 | \$1,985 | 83% | 0.9 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Retail | Space Heating | Existing | building | 18,189 | 7.1% | 0.07 | 15 | \$80,684 | 25% | 0.0 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Retail | Space Heating | New | building | 18,189 | 7.1% | 0.07 | 15 | \$80,684 | 35% | 0.0 |
| PPL | Hi Eff HVAC System Design | No HVAC Design | Retail | Space Heating | New | building | 18,189 | 11% | 0.1 | 10 | \$179,491 | 51% | 0.0 |
| PPL | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Retail | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$77 | 32% | 1.0 |
| PPL | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Retail | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$77 | 32% | 1.0 |
| PPL | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Retail | Space Heating | Existing | building | 18,189 | 2.3% | 0.02 | 10 | \$7,735 | 81% | 0.0 |
| PPL | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Retail | Space Heating | New | building | 18,189 | 2.3% | 0.02 | 10 | \$7,735 | 81% | 0.0 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Retail | Space Heating | Existing | building | 18,189 | 3.6% | 0.04 | 11 | \$286 | 49% | 1.0 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Retail | Space Heating | New | building | 18,189 | 3.1% | 0.03 | 11 | \$146 | 49% | 1.7 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|--|-----------------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Re-Commissioning (Existing Construction) | No Re-Commissioning | Retail | Space Heating | Existing | building | 18,189 | 16% | 0.2 | 5 | \$8,051 | 86% | 0.1 |
| PPL | VFD on Cooling Tower Fan | Motor w/out VFD | Retail | Space Heating | Early | motor | 27,193 | 70% | 3.4 | 15 | \$2,843 | 88% | 4.5 |
| PPL | VFD on Cooling Tower Fan | Motor w/out VFD | Retail | Space Heating | New | motor | 26,685 | 72% | 3.3 | 15 | \$2,843 | 88% | 4.5 |
| PPL | VFD on Cooling Tower Fan | Motor w/out VFD | Retail | Space Heating | ROB | motor | 26,685 | 72% | 3.3 | 15 | \$2,843 | 88% | 4.5 |
| PPL | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Retail | Space Heating | Existing | building | 18,189 | 8.1% | 0.08 | 15 | \$5,499 | 26% | 0.2 |
| PPL | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Retail | Space Heating | New | building | 18,189 | 0.3% | 0.00 | 15 | \$4,218 | 94% | 0.0 |
| PPL | Green LED Traffic Light | Green Incandescent Traffic Light | Retail | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 0% | 1.2 |
| PPL | Green LED Traffic Light | Green Incandescent Traffic Light | Retail | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| PPL | Green LED Traffic Light | Green Incandescent Traffic Light | Retail | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| PPL | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Retail | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 0% | 3.0 |
| PPL | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Retail | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| PPL | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Retail | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| PPL | Induction Street Lighting | One 100W HPS Street Light Fixture | Retail | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 0% | 0.3 |
| PPL | Induction Street Lighting | One 100W HPS Street Light Fixture | Retail | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.7 |
| PPL | Induction Street Lighting | One 100W HPS Street Light Fixture | Retail | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.7 |
| PPL | LED Street Lighting | One 100W HPS Street Light | Retail | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 0% | 0.2 |
| PPL | LED Street Lighting | One 100W HPS Street Light | Retail | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| PPL | LED Street Lighting | One 100W HPS Street Light | Retail | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| PPL | Red LED Traffic Light | One Red Incandescent Traffic Light | Retail | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 0% | 1.6 |
| PPL | Red LED Traffic Light | One Red Incandescent Traffic Light | Retail | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| PPL | Red LED Traffic Light | One Red Incandescent Traffic Light | Retail | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| PPL | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Retail | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 0% | 0.1 |
| PPL | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Retail | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| PPL | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Retail | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| PPL | Demand controlled Circulating Systems | Constant circulation system | Retail | Water Heating | Existing | building | 6,351 | 20% | 0.2 | 15 | \$1,152 | 59% | 0.8 |
| PPL | Demand controlled Circulating Systems | Constant circulation system | Retail | Water Heating | New | building | 6,351 | 20% | 0.2 | 15 | \$1,152 | 59% | 0.8 |
| PPL | Drainwater Heat Recovery Water Heater | No heat recovery | Retail | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.9 |
| PPL | Drainwater Heat Recovery Water Heater | No heat recovery | Retail | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.9 |
| PPL | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Retail | Water Heating | Existing | building | 6,351 | 5.9% | 0.06 | 12 | \$14 | 85% | 15.1 |
| PPL | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Retail | Water Heating | New | building | 6,351 | 5.9% | 0.06 | 12 | \$4.0 | 85% | 52.7 |
| PPL | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Retail | Water Heating | Early | water heater | 4,077 | 66% | 0.5 | 10 | \$2,045 | 68% | 0.6 |
| PPL | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Retail | Water Heating | Early | water heater | 4,077 | 66% | 0.5 | 10 | \$2,045 | 68% | 0.6 |
| PPL | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Retail | Water Heating | New | water heater | 4,077 | 66% | 0.5 | 10 | \$1,187 | 68% | 1.1 |
| PPL | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Retail | Water Heating | New | water heater | 4,077 | 66% | 0.5 | 10 | \$1,187 | 68% | 1.1 |
| PPL | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Retail | Water Heating | ROB | water heater | 3,963 | 65% | 0.5 | 10 | \$1,187 | 68% | 1.1 |
| PPL | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Retail | Water Heating | ROB | water heater | 3,963 | 65% | 0.5 | 10 | \$1,187 | 68% | 1.1 |
| PPL | Heat Recovery Unit | Base Water Heating | Retail | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.6 |
| PPL | Heat Recovery Unit | Base Water Heating | Retail | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.6 |
| PPL | Heat Trap | No Heat Trap | Retail | Water Heating | Existing | building | 6,351 | 22% | 0.2 | 11 | \$43 | 50% | 17.0 |
| PPL | Heat Trap | No Heat Trap | Retail | Water Heating | New | building | 6,351 | 22% | 0.2 | 11 | \$6.4 | 50% | 113.9 |
| PPL | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Retail | Water Heating | Early | water heater | 4,077 | 5.9% | 0.04 | 15 | \$865 | 79% | 0.2 |
| PPL | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Retail | Water Heating | Early | water heater | 4,077 | 5.9% | 0.04 | 15 | \$865 | 79% | 0.2 |
| PPL | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Retail | Water Heating | New | water heater | 3,963 | 3.2% | 0.02 | 15 | \$307 | 79% | 0.3 |
| PPL | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Retail | Water Heating | New | water heater | 3,963 | 3.2% | 0.02 | 15 | \$307 | 79% | 0.3 |
| PPL | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Retail | Water Heating | ROB | water heater | 3,963 | 3.2% | 0.02 | 15 | \$307 | 79% | 0.3 |
| PPL | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Retail | Water Heating | ROB | water heater | 3,963 | 3.2% | 0.02 | 15 | \$307 | 79% | 0.3 |
| PPL | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Retail | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$646 | 81% | 28.2 |
| PPL | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Retail | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 20.4 |
| PPL | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Retail | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 20.4 |
| PPL | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Retail | Water Heating | Existing | building | 6,351 | 0.5% | 0.01 | 13 | \$4.8 | 68% | 4.1 |
| PPL | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Retail | Water Heating | New | building | 6,351 | 0.5% | 0.01 | 13 | \$4.8 | 0% | 4.1 |
| PPL | Hot Water Circulation Pump Time-Clock | Constant circulation system | Retail | Water Heating | Existing | building | 6,351 | 5.3% | 0.05 | 10 | \$26 | 72% | 6.3 |
| PPL | Hot Water Circulation Pump Time-Clock | Constant circulation system | Retail | Water Heating | New | building | 6,351 | 5.3% | 0.05 | 10 | \$26 | 72% | 6.3 |
| PPL | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Retail | Water Heating | Existing | building | 5,837 | 2.3% | 0.02 | 7 | \$22 | 78% | 2.2 |
| PPL | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Retail | Water Heating | New | building | 5,837 | 2.1% | 0.02 | 7 | \$0.5 | 78% | 89.1 |
| PPL | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Retail | Water Heating | Existing | building | 6,351 | 3.0% | 0.03 | 5 | \$300 | 0% | 0.2 |
| PPL | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Retail | Water Heating | New | building | 6,351 | 2.0% | 0.02 | 5 | \$194 | 0% | 0.2 |
| PPL | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Retail | Water Heating | Existing | building | 6,351 | 6.5% | 0.07 | 9 | \$25 | 2% | 7.2 |
| PPL | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Retail | Water Heating | New | building | 6,351 | 6.5% | 0.07 | 9 | \$6.0 | 2% | 29.9 |
| PPL | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Retail | Water Heating | Early | water heater | 4,077 | 52% | 0.2 | 15 | \$7,080 | 32% | 0.2 |
| PPL | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Retail | Water Heating | New | water heater | 3,963 | 51% | 0.2 | 15 | \$6,222 | 32% | 0.2 |
| PPL | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Retail | Water Heating | ROB | water heater | 3,963 | 51% | 0.2 | 15 | \$6,222 | 32% | 0.2 |
| PPL | Ultrasonic Faucet Control | Manual Faucet Control | Retail | Water Heating | Existing | building | 6,351 | 3.0% | 0.03 | 10 | \$1,098 | 77% | 0.1 |
| PPL | Ultrasonic Faucet Control | Manual Faucet Control | Retail | Water Heating | New | building | 6,351 | 3.0% | 0.03 | 10 | \$1,098 | 77% | 0.1 |
| PPL | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Retail | Water Heating | Existing | building | 6,351 | 2.2% | 0.02 | 4 | \$28 | 83% | 1.1 |
| PPL | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Retail | Water Heating | New | building | 6,351 | 2.3% | 0.02 | 4 | \$28 | 83% | 1.1 |
| PPL | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Street Lighting | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.1 |
| PPL | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Street Lighting | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.1 |
| PPL | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Street Lighting | Cooking | Early | steamer | 51 | 46% | 0.00 | 12 | \$5,103 | 81% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|--|-----------------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Street Lighting | Cooking | New | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| PPL | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Street Lighting | Cooking | ROB | steamer | 43 | 35% | 0.00 | 12 | \$601 | 81% | 0.0 |
| PPL | Electric combination oven (Energy Star) | Standard Oven | Street Lighting | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.9 |
| PPL | Electric combination oven (Energy Star) | Standard Oven | Street Lighting | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.9 |
| PPL | Electric Convection Oven | Conventional convection oven w/ 65% efficiency | Street Lighting | Cooking | Early | oven | 8,641 | 37% | 0.6 | 12 | \$4,169 | 81% | 0.4 |
| PPL | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Street Lighting | Cooking | New | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.7 |
| PPL | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Street Lighting | Cooking | ROB | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.7 |
| PPL | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Street Lighting | Cooking | Early | fryer | 6,105 | 23% | 0.3 | 12 | \$9,291 | 86% | 0.1 |
| PPL | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Street Lighting | Cooking | New | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| PPL | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Street Lighting | Cooking | ROB | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| PPL | High Efficiency Griddle (ENERGY STAR) | Efficiency code minimum griddle (70% eff) | Street Lighting | Cooking | Early | griddle | 11,317 | 65% | 1.4 | 12 | \$4,992 | 86% | 0.8 |
| PPL | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Street Lighting | Cooking | New | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.2 |
| PPL | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Street Lighting | Cooking | ROB | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.2 |
| PPL | High Efficiency Induction Cooking | Standard Cooking | Street Lighting | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| PPL | High Efficiency Induction Cooking | Standard Cooking | Street Lighting | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| PPL | Adding reflective roof treatment | Std color roof | Street Lighting | Cooling Central | Existing | building | 1,617 | 7.0% | 0.07 | 6 | \$12,711 | 82% | 0.0 |
| PPL | Adding reflective roof treatment | Std color roof | Street Lighting | Cooling Central | New | building | 1,617 | 7.0% | 0.07 | 6 | \$12,711 | 82% | 0.0 |
| PPL | Adding window shade film | No shade film | Street Lighting | Cooling Central | Existing | building | 1,617 | 1.3% | 0.4 | 10 | \$20 | 12% | 10.4 |
| PPL | Adding window shade film | No shade film | Street Lighting | Cooling Central | New | building | 1,617 | 1.3% | 0.4 | 10 | \$20 | 13% | 10.4 |
| PPL | Adding window shade screen | No shade screen | Street Lighting | Cooling Central | Existing | building | 1,617 | 1.1% | 0.01 | 10 | \$7.6 | 13% | 1.5 |
| PPL | Adding window shade screen | No shade screen | Street Lighting | Cooling Central | New | building | 1,617 | 1.0% | 0.01 | 10 | \$7.6 | 13% | 1.5 |
| PPL | Automated control system | Manual Controls | Street Lighting | Cooling Central | Existing | building | 1,617 | 17% | 0.2 | 15 | \$1,770 | 51% | 0.2 |
| PPL | Automated control system | Manual Controls | Street Lighting | Cooling Central | New | building | 1,617 | 17% | 0.2 | 15 | \$1,770 | 94% | 0.2 |
| PPL | Ceiling Insulations (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Street Lighting | Cooling Central | Existing | building | 1,617 | 6.2% | 0.06 | 15 | \$17,130 | 71% | 0.0 |
| PPL | Ceiling Insulations (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Street Lighting | Cooling Central | New | building | 1,617 | 2.1% | 0.02 | 15 | \$16,283 | 94% | 0.0 |
| PPL | Chiller Tuneup/Diagnostics | No tuneup | Street Lighting | Cooling Central | Existing | building | 1,617 | 8.0% | 0.08 | 10 | \$4,129 | 59% | 0.0 |
| PPL | Chiller Tuneup/Diagnostics | No tuneup | Street Lighting | Cooling Central | New | building | 1,617 | 8.0% | 0.08 | 10 | \$4,129 | 59% | 0.0 |
| PPL | Duct Insulation, Add R8 | No Insulation | Street Lighting | Cooling Central | Existing | building | 1,617 | 1.4% | 0.04 | 15 | \$13 | 20% | 3.1 |
| PPL | Duct Insulation, Add R8 | No Insulation | Street Lighting | Cooling Central | New | building | 1,617 | 1.4% | 0.04 | 15 | \$13 | 10% | 3.1 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Street Lighting | Cooling Central | Existing | building | 1,617 | 7.0% | 0.07 | 15 | \$7,172 | 25% | 0.0 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Street Lighting | Cooling Central | New | building | 1,617 | 7.0% | 0.07 | 15 | \$7,172 | 35% | 0.0 |
| PPL | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | Early | ton | 4,365 | 24% | 0.4 | 15 | \$108,550 | 88% | 0.0 |
| PPL | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | New | ton | 3,568 | 6.7% | 0.08 | 15 | \$12,927 | 88% | 0.0 |
| PPL | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | ROB | ton | 3,568 | 6.7% | 0.08 | 15 | \$12,927 | 88% | 0.0 |
| PPL | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | Early | ton | 6,522 | 23% | 0.5 | 15 | \$140,105 | 88% | 0.0 |
| PPL | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | New | ton | 5,247 | 4.9% | 0.09 | 15 | \$9,336 | 88% | 0.0 |
| PPL | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | ROB | ton | 5,247 | 4.9% | 0.09 | 15 | \$9,336 | 88% | 0.0 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | Early | ton | 53,390 | 26% | 4.8 | 15 | \$105,354 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | New | ton | 46,518 | 15% | 2.4 | 15 | \$30,530 | 88% | 0.2 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | ROB | ton | 46,518 | 15% | 2.4 | 15 | \$30,530 | 88% | 0.2 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | Early | ton | 79,963 | 23% | 6.4 | 15 | \$154,107 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | New | ton | 73,456 | 16% | 4.1 | 15 | \$27,646 | 88% | 0.3 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | ROB | ton | 79,963 | 23% | 6.4 | 15 | \$27,646 | 88% | 0.5 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | Early | ton | 132,804 | 23% | 10.4 | 15 | \$302,924 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | New | ton | 120,197 | 14% | 6.0 | 15 | \$115,432 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | ROB | ton | 132,804 | 23% | 10.4 | 15 | \$115,432 | 88% | 0.2 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | Early | ton | 159,365 | 23% | 12.5 | 15 | \$350,154 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | New | ton | 144,236 | 14% | 7.3 | 15 | \$120,406 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | ROB | ton | 159,365 | 23% | 12.5 | 15 | \$120,406 | 88% | 0.2 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | Early | ton | 35,325 | 29% | 3.6 | 15 | \$83,632 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | New | ton | 27,429 | 8.9% | 0.9 | 15 | \$40,211 | 88% | 0.0 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | ROB | ton | 35,325 | 29% | 3.6 | 15 | \$40,211 | 88% | 0.2 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|---|-----------------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | Early | ton | 60,696 | 35% | 7.3 | 15 | \$132,173 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | New | ton | 45,269 | 13% | 2.0 | 15 | \$39,556 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | ROB | ton | 45,269 | 13% | 2.0 | 15 | \$39,556 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | Early | ton | 101,337 | 39% | 13.8 | 15 | \$187,029 | 88% | 0.2 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | New | ton | 72,252 | 15% | 3.7 | 15 | \$33,554 | 88% | 0.2 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | ROB | ton | 101,337 | 39% | 13.8 | 15 | \$33,554 | 88% | 0.9 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | Early | ton | 17,733 | 30% | 1.8 | 15 | \$32,398 | 88% | 0.1 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | New | ton | 14,049 | 11% | 0.5 | 15 | \$7,188 | 88% | 0.2 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Street Lighting | Cooling Central | ROB | ton | 17,733 | 30% | 1.8 | 15 | \$7,188 | 88% | 0.6 |
| PPL | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Street Lighting | Cooling Central | Existing | building | 1,617 | 2.2% | 0.02 | 10 | \$10,066 | 81% | 0.0 |
| PPL | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Street Lighting | Cooling Central | New | building | 1,617 | 2.2% | 0.02 | 10 | \$10,066 | 81% | 0.0 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Street Lighting | Cooling Central | Existing | building | 1,617 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.1 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Street Lighting | Cooling Central | New | building | 1,617 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.1 |
| PPL | Re-Commissioning (Existing Construction) | No Re-Commissioning | Street Lighting | Cooling Central | Existing | building | 1,617 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |
| PPL | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Street Lighting | Cooling Central | Existing | building | 1,617 | 11% | 0.1 | 15 | \$3,285 | 26% | 0.1 |
| PPL | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Street Lighting | Cooling Central | New | building | 1,617 | 0.3% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| PPL | <65k BTU/hr 14 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Street Lighting | Cooling Unitary | Early | ton | 2,499 | 16% | 0.2 | 15 | \$1,545 | 29% | 0.2 |
| PPL | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Street Lighting | Cooling Unitary | New | ton | 2,264 | 7.1% | 0.08 | 15 | \$339 | 29% | 0.4 |
| PPL | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Street Lighting | Cooling Unitary | ROB | ton | 2,264 | 7.1% | 0.08 | 15 | \$339 | 29% | 0.4 |
| PPL | <65k BTU/hr 15 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Street Lighting | Cooling Unitary | Early | ton | 2,499 | 22% | 0.2 | 15 | \$1,821 | 30% | 0.2 |
| PPL | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Street Lighting | Cooling Unitary | New | ton | 2,264 | 13% | 0.3 | 15 | \$714 | 30% | 0.5 |
| PPL | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Street Lighting | Cooling Unitary | ROB | ton | 2,264 | 13% | 0.3 | 15 | \$714 | 30% | 0.5 |
| PPL | <65k BTU/hr 16 SEER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Street Lighting | Cooling Unitary | Early | ton | 2,499 | 26% | 0.3 | 15 | \$2,098 | 31% | 0.3 |
| PPL | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Street Lighting | Cooling Unitary | New | ton | 2,264 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.4 |
| PPL | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Street Lighting | Cooling Unitary | ROB | ton | 2,264 | 19% | 0.2 | 15 | \$1,089 | 31% | 0.4 |
| PPL | >760k min 10.2 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Street Lighting | Cooling Unitary | Early | ton | 63,236 | 3.7% | 1.2 | 15 | \$68,066 | 56% | 0.0 |
| PPL | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Street Lighting | Cooling Unitary | New | ton | 64,047 | 4.9% | 1.6 | 15 | \$6,231 | 56% | 0.5 |
| PPL | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Street Lighting | Cooling Unitary | ROB | ton | 64,047 | 4.9% | 1.6 | 15 | \$6,231 | 56% | 0.5 |
| PPL | 135-240k min 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Street Lighting | Cooling Unitary | Early | ton | 15,148 | 18% | 1.4 | 15 | \$18,135 | 79% | 0.1 |
| PPL | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Street Lighting | Cooling Unitary | New | ton | 13,779 | 10.0% | 0.7 | 15 | \$1,948 | 79% | 0.6 |
| PPL | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Street Lighting | Cooling Unitary | ROB | ton | 13,779 | 10.0% | 0.7 | 15 | \$1,948 | 79% | 0.6 |
| PPL | 240k-760k min 11 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Street Lighting | Cooling Unitary | Early | ton | 41,603 | 9.0% | 1.9 | 15 | \$44,809 | 66% | 0.1 |
| PPL | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Street Lighting | Cooling Unitary | New | ton | 41,706 | 9.3% | 2.0 | 15 | \$4,813 | 66% | 0.7 |
| PPL | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Street Lighting | Cooling Unitary | ROB | ton | 41,706 | 9.3% | 2.0 | 15 | \$4,813 | 66% | 0.7 |
| PPL | 65k-135k BTU/hr 12 EER Air Conditioner | Exisiting efficiency Unitary HVACs in Pennsylvania | Street Lighting | Cooling Unitary | Early | ton | 9,172 | 17% | 0.8 | 15 | \$10,946 | 86% | 0.1 |
| PPL | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Street Lighting | Cooling Unitary | New | ton | 8,174 | 6.7% | 0.3 | 15 | \$1,392 | 86% | 0.4 |
| PPL | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Street Lighting | Cooling Unitary | ROB | ton | 8,174 | 6.7% | 0.3 | 15 | \$1,392 | 86% | 0.4 |
| PPL | Adding reflective roof treatment | Std color roof | Street Lighting | Cooling Unitary | Existing | building | 24,168 | 7.0% | 0.07 | 6 | \$12,711 | 82% | 0.0 |
| PPL | Adding reflective roof treatment | Std color roof | Street Lighting | Cooling Unitary | New | building | 24,168 | 7.0% | 0.07 | 6 | \$12,711 | 82% | 0.0 |
| PPL | Adding window shade film | No shade film | Street Lighting | Cooling Unitary | Existing | building | 24,168 | 1.3% | 0.4 | 10 | \$294 | 12% | 1.1 |
| PPL | Adding window shade film | No shade film | Street Lighting | Cooling Unitary | New | building | 24,168 | 1.3% | 0.4 | 10 | \$294 | 13% | 1.1 |
| PPL | Adding window shade screen | No shade screen | Street Lighting | Cooling Unitary | Existing | building | 24,168 | 1.1% | 0.01 | 10 | \$114 | 12% | 0.9 |
| PPL | Adding window shade screen | No shade screen | Street Lighting | Cooling Unitary | New | building | 24,168 | 1.1% | 0.01 | 10 | \$114 | 13% | 0.9 |
| PPL | Automated control system | Manual Controls | Street Lighting | Cooling Unitary | Existing | building | 24,168 | 17% | 0.2 | 15 | \$26,458 | 51% | 0.1 |
| PPL | Automated control system | Manual Controls | Street Lighting | Cooling Unitary | New | building | 24,168 | 17% | 0.2 | 15 | \$26,458 | 94% | 0.1 |
| PPL | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Street Lighting | Cooling Unitary | Existing | building | 24,168 | 6.2% | 0.06 | 15 | \$17,130 | 71% | 0.0 |
| PPL | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Street Lighting | Cooling Unitary | New | building | 24,168 | 2.1% | 0.02 | 15 | \$16,283 | 94% | 0.0 |
| PPL | Duct Insulation, Add R8 | No Insulation | Street Lighting | Cooling Unitary | Existing | building | 24,168 | 1.4% | 0.04 | 15 | \$192 | 20% | 1.1 |
| PPL | Duct Insulation, Add R8 | No Insulation | Street Lighting | Cooling Unitary | New | building | 24,168 | 1.4% | 0.04 | 15 | \$192 | 10% | 1.1 |
| PPL | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Street Lighting | Cooling Unitary | Existing | building | 13,207 | 13% | 0.1 | 1 | \$127 | 73% | 0.8 |
| PPL | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Street Lighting | Cooling Unitary | New | building | 13,207 | 13% | 0.1 | 1 | \$127 | 73% | 0.8 |
| PPL | ECM Motors for split systems | Std Shaded Pole Motor | Street Lighting | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.6 |
| PPL | ECM Motors for split systems | Std Shaded Pole Motor | Street Lighting | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 89% | 2.6 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Street Lighting | Cooling Unitary | Existing | building | 24,168 | 7.1% | 0.07 | 15 | \$107,204 | 25% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|---|-----------------|-----------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Street Lighting | Cooling Unitary | New | building | 24,168 | 7.1% | 0.07 | 15 | \$107,204 | 35% | 0.0 |
| PPL | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Street Lighting | Cooling Unitary | Existing | building | 24,168 | 5.0% | 0.05 | 5 | \$225 | 59% | 1.2 |
| PPL | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Street Lighting | Cooling Unitary | Existing | building | 24,168 | 2.2% | 0.02 | 10 | \$10,818 | 86% | 0.0 |
| PPL | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Street Lighting | Cooling Unitary | New | building | 24,168 | 2.2% | 0.02 | 10 | \$10,818 | 86% | 0.0 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) | Street Lighting | Cooling Unitary | Existing | building | 24,168 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.7 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Street Lighting | Cooling Unitary | New | building | 24,168 | 1.7% | 0.02 | 11 | \$146 | 49% | 1.2 |
| PPL | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Street Lighting | Cooling Unitary | Early | unit | 180 | 19% | 0.08 | 15 | \$849 | 85% | 0.1 |
| PPL | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Street Lighting | Cooling Unitary | New | unit | 182 | 20% | 0.09 | 15 | \$356 | 85% | 0.2 |
| PPL | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Street Lighting | Cooling Unitary | ROB | unit | 182 | 20% | 0.09 | 15 | \$356 | 85% | 0.2 |
| PPL | Re-Commissioning (Existing Construction) | No Re-Commissioning | Street Lighting | Cooling Unitary | Existing | building | 24,168 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.1 |
| PPL | Room AC (w/ louvered sides) | Existing efficiency Room AC in Pennsylvania (2000 Federal Standards) | Street Lighting | Cooling Unitary | Early | ton | 1,180 | 13% | 0.05 | 9 | \$348 | 82% | 0.2 |
| PPL | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Street Lighting | Cooling Unitary | New | ton | 1,070 | 4.5% | 0.02 | 9 | \$17 | 82% | 1.4 |
| PPL | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Street Lighting | Cooling Unitary | ROB | ton | 1,070 | 4.5% | 0.02 | 9 | \$17 | 82% | 1.4 |
| PPL | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Street Lighting | Cooling Unitary | Existing | building | 24,168 | 11% | 0.1 | 15 | \$3,285 | 26% | 0.5 |
| PPL | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Street Lighting | Cooling Unitary | New | building | 24,168 | 0.3% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| PPL | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Street Lighting | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 1.1 |
| PPL | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Street Lighting | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.5 |
| PPL | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Street Lighting | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.5 |
| PPL | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Street Lighting | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 0% | 0.2 |
| PPL | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Street Lighting | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| PPL | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Street Lighting | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| PPL | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Street Lighting | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 53% | 0.3 |
| PPL | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Street Lighting | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 53% | 0.2 |
| PPL | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Street Lighting | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 53% | 2.8 |
| PPL | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Street Lighting | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 53% | 2.1 |
| PPL | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Street Lighting | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 53% | 2.8 |
| PPL | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Street Lighting | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 53% | 2.1 |
| PPL | Photocell Controls (Outdoor) | Lighting w/ No Controls | Street Lighting | Ext. Lighting | Existing | building | 770 | 28% | 0.3 | 8 | \$5,088 | 88% | 0.0 |
| PPL | Photocell Controls (Outdoor) | Lighting w/ No Controls | Street Lighting | Ext. Lighting | New | building | 770 | 28% | 0.3 | 8 | \$5,088 | 0% | 0.0 |
| PPL | Adding reflective roof treatment | Std color roof | Street Lighting | Heat Pump | Existing | building | 2,597 | 6.9% | 0.07 | 6 | \$12,711 | 82% | 0.0 |
| PPL | Adding reflective roof treatment | Std color roof | Street Lighting | Heat Pump | New | building | 2,597 | 6.9% | 0.07 | 6 | \$12,711 | 82% | 0.0 |
| PPL | Adding window shade film | No shade film | Street Lighting | Heat Pump | Existing | building | 2,597 | 3.9% | 0.4 | 10 | \$32 | 12% | 7.4 |
| PPL | Adding window shade film | No shade film | Street Lighting | Heat Pump | New | building | 2,597 | 3.9% | 0.4 | 10 | \$32 | 12% | 7.4 |
| PPL | Adding window shade screen | No shade screen | Street Lighting | Heat Pump | Existing | building | 2,597 | 0.3% | 0.01 | 10 | \$12 | 12% | 1.2 |
| PPL | Adding window shade screen | No shade screen | Street Lighting | Heat Pump | New | building | 2,597 | 0.3% | 0.01 | 10 | \$12 | 12% | 1.3 |
| PPL | Automated control system | Manual Controls | Street Lighting | Heat Pump | Existing | building | 2,597 | 17% | 0.2 | 15 | \$2,844 | 51% | 0.1 |
| PPL | Automated control system | Manual Controls | Street Lighting | Heat Pump | New | building | 2,597 | 17% | 0.2 | 15 | \$2,844 | 94% | 0.1 |
| PPL | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Street Lighting | Heat Pump | Existing | building | 2,597 | 6.2% | 0.06 | 15 | \$17,130 | 71% | 0.0 |
| PPL | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Street Lighting | Heat Pump | New | building | 2,597 | 2.1% | 0.02 | 15 | \$16,283 | 94% | 0.0 |
| PPL | Duct Insulation, Add R8 | No Insulation | Street Lighting | Heat Pump | Existing | building | 2,597 | 4.0% | 0.04 | 15 | \$21 | 12% | 4.1 |
| PPL | Duct Insulation, Add R8 | No Insulation | Street Lighting | Heat Pump | New | building | 2,597 | 4.0% | 0.04 | 15 | \$21 | 6% | 4.1 |
| PPL | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Street Lighting | Heat Pump | Early | heat pump | 2,301 | 12% | 0.02 | 15 | \$4,070 | 83% | 0.0 |
| PPL | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Street Lighting | Heat Pump | New | heat pump | 2,195 | 7.8% | 0.01 | 15 | \$1,097 | 83% | 0.1 |
| PPL | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Street Lighting | Heat Pump | ROB | heat pump | 2,195 | 7.8% | 0.01 | 15 | \$1,097 | 83% | 0.1 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Street Lighting | Heat Pump | Existing | building | 2,597 | 7.0% | 0.07 | 15 | \$11,522 | 25% | 0.0 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Street Lighting | Heat Pump | New | building | 2,597 | 7.0% | 0.07 | 15 | \$11,522 | 35% | 0.0 |
| PPL | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Street Lighting | Heat Pump | Early | heat pump | 23,700 | 16% | 0.3 | 15 | \$91,117 | 19% | 0.0 |
| PPL | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Street Lighting | Heat Pump | New | heat pump | 22,847 | 13% | 0.3 | 15 | \$33,927 | 19% | 0.1 |
| PPL | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Street Lighting | Heat Pump | ROB | heat pump | 22,847 | 13% | 0.3 | 15 | \$33,927 | 19% | 0.1 |
| PPL | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Street Lighting | Heat Pump | Early | heat pump | 23,700 | 16% | 0.3 | 15 | \$58,356 | 19% | 0.0 |
| PPL | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Street Lighting | Heat Pump | New | heat pump | 22,847 | 13% | 0.3 | 15 | \$1,167 | 19% | 1.5 |
| PPL | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Street Lighting | Heat Pump | ROB | heat pump | 22,847 | 13% | 0.3 | 15 | \$1,167 | 19% | 1.5 |
| PPL | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Street Lighting | Heat Pump | Early | heat pump | 6,136 | 16% | 0.09 | 12 | \$4,298 | 81% | 0.1 |
| PPL | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Street Lighting | Heat Pump | Early | heat pump | 6,136 | 25% | 0.1 | 12 | \$5,883 | 81% | 0.1 |
| PPL | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Street Lighting | Heat Pump | New | heat pump | 5,854 | 12% | 0.06 | 12 | \$852 | 81% | 0.4 |
| PPL | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Street Lighting | Heat Pump | New | heat pump | 5,854 | 22% | 0.1 | 12 | \$2,437 | 81% | 0.3 |
| PPL | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Street Lighting | Heat Pump | ROB | heat pump | 5,854 | 12% | 0.06 | 12 | \$852 | 81% | 0.4 |
| PPL | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Street Lighting | Heat Pump | ROB | heat pump | 5,854 | 22% | 0.1 | 12 | \$2,437 | 81% | 0.3 |
| PPL | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Street Lighting | Heat Pump | Existing | building | 2,597 | 2.2% | 0.02 | 10 | \$9,632 | 81% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|--|-----------------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Street Lighting | Heat Pump | New | building | 2,597 | 2.2% | 0.02 | 10 | \$9,632 | 81% | 0.0 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Street Lighting | Heat Pump | Existing | building | 2,597 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.1 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Street Lighting | Heat Pump | New | building | 2,597 | 2.1% | 0.02 | 11 | \$146 | 49% | 0.2 |
| PPL | Re-Commissioning (Existing Construction) | No Re-Commissioning | Street Lighting | Heat Pump | Existing | building | 2,597 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |
| PPL | Wall Insultions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Street Lighting | Heat Pump | Existing | building | 2,598 | 11% | 0.1 | 15 | \$3,285 | 26% | 0.1 |
| PPL | Wall Insultions (Going upto R 21) | Code minimum Wall Insulations | Street Lighting | Heat Pump | New | building | 2,598 | 0.3% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| PPL | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Street Lighting | Heat Pump | Early | heat pump | 9,853 | 35% | 0.3 | 15 | \$35,347 | 28% | 0.1 |
| PPL | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Street Lighting | Heat Pump | New | heat pump | 9,368 | 31% | 0.3 | 15 | \$15,739 | 28% | 0.1 |
| PPL | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Street Lighting | Heat Pump | ROB | heat pump | 9,368 | 31% | 0.3 | 15 | \$15,739 | 28% | 0.1 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 299 | 9.6% | 0.01 | 13 | \$875 | 39% | 0.0 |
| PPL | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Street Lighting | High Bay Lighting | Early | Fixture | 299 | 9.5% | 0.01 | 13 | \$875 | 28% | 0.0 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 461 | 41% | 0.04 | 13 | \$875 | 36% | 0.1 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | New | Fixture | 227 | 9.6% | 0.00 | 13 | \$372 | 39% | 0.0 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Street Lighting | High Bay Lighting | New | Fixture | 211 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | New | Fixture | 350 | 41% | 0.03 | 13 | \$397 | 36% | 0.2 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 299 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.0 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 278 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 461 | 41% | 0.04 | 13 | \$397 | 36% | 0.3 |
| PPL | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 580 | 19% | 0.02 | 13 | \$877 | 38% | 0.1 |
| PPL | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Street Lighting | High Bay Lighting | Early | Fixture | 587 | 20% | 0.02 | 13 | \$877 | 38% | 0.1 |
| PPL | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 1,708 | 73% | 0.2 | 13 | \$877 | 38% | 0.9 |
| PPL | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | New | Fixture | 441 | 19% | 0.02 | 13 | \$372 | 38% | 0.1 |
| PPL | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | New | Fixture | 1,298 | 73% | 0.2 | 13 | \$383 | 38% | 1.5 |
| PPL | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 580 | 19% | 0.02 | 13 | \$372 | 38% | 0.2 |
| PPL | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 1,708 | 73% | 0.2 | 13 | \$383 | 38% | 2.0 |
| PPL | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 580 | 25% | 0.03 | 13 | \$580 | 29% | 0.2 |
| PPL | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Street Lighting | High Bay Lighting | Early | Fixture | 569 | 23% | 0.03 | 13 | \$580 | 28% | 0.1 |
| PPL | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 1,708 | 74% | 0.2 | 13 | \$580 | 36% | 1.4 |
| PPL | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | New | Fixture | 441 | 25% | 0.02 | 13 | \$75 | 29% | 0.9 |
| PPL | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | New | Fixture | 1,298 | 74% | 0.2 | 13 | \$86 | 36% | 7.0 |
| PPL | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 580 | 25% | 0.03 | 13 | \$75 | 29% | 1.2 |
| PPL | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 1,708 | 74% | 0.2 | 13 | \$86 | 36% | 9.2 |
| PPL | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Street Lighting | High Bay Lighting | Early | Fixture | 151 | 0.2% | 0.00 | 13 | \$861 | 38% | 0.0 |
| PPL | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 326 | 54% | 0.03 | 13 | \$861 | 38% | 0.1 |
| PPL | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | New | Fixture | 248 | 54% | 0.03 | 13 | \$382 | 38% | 0.2 |
| PPL | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 326 | 54% | 0.03 | 13 | \$382 | 38% | 0.3 |
| PPL | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 739 | 18% | 0.03 | 13 | \$512 | 25% | 0.2 |
| PPL | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Street Lighting | High Bay Lighting | Early | Fixture | 773 | 22% | 0.03 | 13 | \$512 | 28% | 0.2 |
| PPL | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 1,708 | 65% | 0.2 | 13 | \$512 | 36% | 1.3 |
| PPL | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | New | Fixture | 562 | 18% | 0.02 | 13 | \$16 | 25% | 3.9 |
| PPL | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | New | Fixture | 1,298 | 65% | 0.2 | 13 | \$18 | 36% | 28.5 |
| PPL | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 739 | 18% | 0.03 | 13 | \$16 | 25% | 5.2 |
| PPL | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 1,708 | 65% | 0.2 | 13 | \$18 | 36% | 37.5 |
| PPL | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 739 | 1.5% | 0.00 | 13 | \$582 | 19% | 0.0 |
| PPL | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Street Lighting | High Bay Lighting | Early | Fixture | 761 | 4.3% | 0.01 | 13 | \$582 | 19% | 0.0 |
| PPL | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 1,708 | 57% | 0.2 | 13 | \$582 | 19% | 1.1 |
| PPL | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | New | Fixture | 562 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| PPL | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | New | Fixture | 1,298 | 57% | 0.1 | 13 | \$88 | 19% | 5.3 |
| PPL | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 739 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| PPL | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 1,708 | 57% | 0.2 | 13 | \$88 | 19% | 6.9 |
| PPL | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 314 | 29% | 0.01 | 13 | \$517 | 71% | 0.1 |
| PPL | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 262 | 15% | 0.01 | 13 | \$517 | 95% | 0.0 |
| PPL | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 390 | 43% | 0.02 | 13 | \$517 | 95% | 0.2 |
| PPL | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 361 | 38% | 0.02 | 13 | \$517 | 95% | 0.2 |
| PPL | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | New | Fixture | 199 | 15% | 0.00 | 13 | \$25 | 95% | 0.7 |
| PPL | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | New | Fixture | 296 | 43% | 0.02 | 13 | \$51 | 95% | 1.4 |
| PPL | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 262 | 15% | 0.01 | 13 | \$25 | 95% | 0.9 |
| PPL | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 390 | 43% | 0.02 | 13 | \$51 | 95% | 1.9 |
| PPL | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Street Lighting | High Bay Lighting | Early | lamp | 87 | 16% | 0.00 | 12 | \$8.7 | 99% | 1.0 |
| PPL | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Street Lighting | High Bay Lighting | New | lamp | 52 | 13% | 0.00 | 12 | \$1.6 | 91% | 2.4 |
| PPL | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Street Lighting | High Bay Lighting | ROB | lamp | 84 | 13% | 0.00 | 12 | \$1.6 | 91% | 3.9 |
| PPL | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 1,748 | 23% | 0.08 | 13 | \$639 | 5% | 0.4 |
| PPL | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Street Lighting | High Bay Lighting | Early | Fixture | 1,373 | 1.6% | 0.00 | 13 | \$639 | 28% | 0.0 |
| PPL | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 3,417 | 60% | 0.4 | 13 | \$639 | 18% | 2.0 |
| PPL | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | New | Fixture | 1,329 | 23% | 0.06 | 13 | \$96 | 5% | 2.0 |
| PPL | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 1,748 | 23% | 0.08 | 13 | \$96 | 5% | 2.6 |
| PPL | Auto Off Time Switch | Lighting w/ No Controls | Street Lighting | High Bay Lighting | Existing | building | 1,201 | 24% | 0.2 | 8 | \$1,034 | 13% | 0.2 |
| PPL | Auto Off Time Switch | Lighting w/ No Controls | Street Lighting | High Bay Lighting | New | building | 1,201 | 6.9% | 0.07 | 8 | \$1,034 | 0% | 0.1 |
| PPL | Central Lighting Control System | Lighting w/ No Controls | Street Lighting | High Bay Lighting | Existing | building | 1,201 | 38% | 0.4 | 8 | \$1,034 | 13% | 0.3 |
| PPL | Central Lighting Control System | Lighting w/ No Controls | Street Lighting | High Bay Lighting | New | building | 1,201 | 14% | 0.1 | 8 | \$1,034 | 13% | 0.1 |
| PPL | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Street Lighting | High Bay Lighting | New | building | 1,201 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|--|-----------------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Street Lighting | High Bay Lighting | New | building | 1,201 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |
| PPL | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Street Lighting | High Bay Lighting | New | building | 1,201 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| PPL | Indoor Daylight Sensors | Lighting w/ No Controls | Street Lighting | High Bay Lighting | Existing | building | 1,201 | 28% | 0.3 | 8 | \$5,088 | 13% | 0.0 |
| PPL | Indoor Daylight Sensors | Lighting w/ No Controls | Street Lighting | High Bay Lighting | New | building | 1,201 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| PPL | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 1,748 | 92% | 0.3 | 13 | \$1,941 | 95% | 0.5 |
| PPL | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 3,417 | 96% | 0.6 | 13 | \$1,941 | 95% | 1.1 |
| PPL | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | New | Fixture | 1,329 | 92% | 0.2 | 13 | \$1,468 | 95% | 0.5 |
| PPL | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | New | Fixture | 2,597 | 96% | 0.5 | 13 | \$1,149 | 95% | 1.4 |
| PPL | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 1,748 | 92% | 0.3 | 13 | \$1,468 | 95% | 0.7 |
| PPL | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 3,417 | 96% | 0.6 | 13 | \$1,149 | 95% | 1.8 |
| PPL | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 580 | 67% | 0.07 | 13 | \$985 | 95% | 0.2 |
| PPL | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 1,708 | 89% | 0.3 | 13 | \$985 | 95% | 1.0 |
| PPL | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Street Lighting | High Bay Lighting | Early | Fixture | 469 | 59% | 0.05 | 13 | \$985 | 95% | 0.2 |
| PPL | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | New | Fixture | 441 | 67% | 0.06 | 13 | \$480 | 95% | 0.4 |
| PPL | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | New | Fixture | 1,298 | 89% | 0.2 | 13 | \$491 | 95% | 1.5 |
| PPL | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Street Lighting | High Bay Lighting | New | Fixture | 356 | 59% | 0.04 | 13 | \$406 | 95% | 0.3 |
| PPL | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 580 | 67% | 0.07 | 13 | \$480 | 95% | 0.5 |
| PPL | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 1,708 | 89% | 0.3 | 13 | \$491 | 95% | 1.9 |
| PPL | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Street Lighting | High Bay Lighting | ROB | Fixture | 469 | 59% | 0.05 | 13 | \$406 | 95% | 0.4 |
| PPL | Occupancy Sensor | Lighting w/ No Controls | Street Lighting | High Bay Lighting | Existing | building | 1,201 | 24% | 0.2 | 8 | \$1,558 | 11% | 0.1 |
| PPL | Occupancy Sensor | Lighting w/ No Controls | Street Lighting | High Bay Lighting | New | building | 1,201 | 6.9% | 0.07 | 8 | \$1,558 | 0% | 0.0 |
| PPL | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Street Lighting | High Bay Lighting | Existing | building | 1,201 | 28% | 0.3 | 8 | \$5,088 | 11% | 0.0 |
| PPL | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Street Lighting | High Bay Lighting | New | building | 1,201 | 4.0% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| PPL | Time Clock Control | Lighting w/ No Controls | Street Lighting | High Bay Lighting | Existing | building | 1,201 | 28% | 0.3 | 8 | \$1,034 | 13% | 0.2 |
| PPL | Time Clock Control | Lighting w/ No Controls | Street Lighting | High Bay Lighting | New | building | 1,201 | 4.1% | 0.04 | 8 | \$1,034 | 0% | 0.0 |
| PPL | Auto Off Time Switch | Lighting w/ No Controls | Street Lighting | Lin. Fluor. Lighting | Existing | building | 21,415 | 24% | 0.2 | 8 | \$1,034 | 13% | 1.7 |
| PPL | Auto Off Time Switch | Lighting w/ No Controls | Street Lighting | Lin. Fluor. Lighting | New | building | 21,415 | 7.0% | 0.07 | 8 | \$1,034 | 0% | 0.5 |
| PPL | Central Lighting Control System | Lighting w/ No Controls | Street Lighting | Lin. Fluor. Lighting | Existing | building | 21,415 | 38% | 0.4 | 8 | \$1,034 | 12% | 2.7 |
| PPL | Central Lighting Control System | Lighting w/ No Controls | Street Lighting | Lin. Fluor. Lighting | New | building | 21,415 | 14% | 0.1 | 8 | \$1,034 | 12% | 1.0 |
| PPL | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Street Lighting | Lin. Fluor. Lighting | New | building | 21,415 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.0 |
| PPL | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Street Lighting | Lin. Fluor. Lighting | New | building | 21,415 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |
| PPL | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Street Lighting | Lin. Fluor. Lighting | New | building | 21,415 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| PPL | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Street Lighting | Lin. Fluor. Lighting | Early | Lamp | 175 | 38% | 0.01 | 12 | \$8.3 | 94% | 4.7 |
| PPL | Indoor Daylight Sensors | Lighting w/ No Controls | Street Lighting | Lin. Fluor. Lighting | Existing | building | 21,415 | 28% | 0.3 | 8 | \$5,088 | 13% | 0.4 |
| PPL | Indoor Daylight Sensors | Lighting w/ No Controls | Street Lighting | Lin. Fluor. Lighting | New | building | 21,415 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.1 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | Early | Lamp | 38 | 19% | 0.00 | 15 | \$36 | 94% | 0.1 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 40W T12 Lamp, Magnetic Ballast | Street Lighting | Lin. Fluor. Lighting | Early | Lamp | 83 | 63% | 0.01 | 15 | \$36 | 94% | 1.0 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | Early | Lamp | 46 | 34% | 0.00 | 15 | \$36 | 94% | 0.3 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | Early | Lamp | 45 | 32% | 0.00 | 15 | \$36 | 94% | 0.3 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | New | Lamp | 29 | 19% | 0.00 | 15 | \$28 | 94% | 0.1 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | New | Lamp | 34 | 32% | 0.00 | 15 | \$29 | 94% | 0.3 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | New | Lamp | 35 | 34% | 0.00 | 15 | \$22 | 94% | 0.4 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | New | Lamp | 34 | 32% | 0.00 | 15 | \$29 | 94% | 0.3 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | ROB | Lamp | 38 | 19% | 0.00 | 15 | \$28 | 94% | 0.2 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | ROB | Lamp | 45 | 32% | 0.00 | 15 | \$29 | 94% | 0.3 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | ROB | Lamp | 46 | 34% | 0.00 | 15 | \$22 | 94% | 0.5 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | ROB | Lamp | 45 | 32% | 0.00 | 15 | \$29 | 94% | 0.3 |
| PPL | Occupancy Sensor | Lighting w/ No Controls | Street Lighting | Lin. Fluor. Lighting | Existing | building | 21,415 | 24% | 0.2 | 8 | \$1,558 | 12% | 1.1 |
| PPL | Occupancy Sensor | Lighting w/ No Controls | Street Lighting | Lin. Fluor. Lighting | New | building | 21,415 | 7.0% | 0.07 | 8 | \$1,558 | 0% | 0.3 |
| PPL | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Street Lighting | Lin. Fluor. Lighting | Existing | building | 21,415 | 28% | 0.3 | 8 | \$5,088 | 11% | 0.4 |
| PPL | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Street Lighting | Lin. Fluor. Lighting | New | building | 21,415 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.1 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 40W T12 w/ Magnetic Ballast | Street Lighting | Lin. Fluor. Lighting | Early | Lamp | 175 | 54% | 0.02 | 12 | \$9.1 | 94% | 6.1 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | Early | Lamp | 112 | 28% | 0.01 | 12 | \$9.1 | 24% | 2.0 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | Early | Lamp | 108 | 26% | 0.01 | 12 | \$9.1 | 94% | 1.8 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | New | Lamp | 82 | 26% | 0.00 | 12 | \$2.5 | 94% | 4.9 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | New | Lamp | 82 | 26% | 0.00 | 12 | \$2.5 | 94% | 4.9 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | New | Lamp | 85 | 28% | 0.00 | 12 | \$2.5 | 24% | 5.6 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | New | Lamp | 82 | 26% | 0.00 | 12 | \$2.5 | 94% | 4.9 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | ROB | Lamp | 108 | 26% | 0.01 | 12 | \$2.5 | 94% | 6.5 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | ROB | Lamp | 108 | 26% | 0.01 | 12 | \$2.5 | 94% | 6.5 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Street Lighting | Lin. Fluor. Lighting | ROB | Lamp | 112 | 28% | 0.01 | 12 | \$2.5 | 24% | 7.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|--|-----------------|---------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Variable Speed Drive Control, 5HP | Existing Motors w/out VSD Drive | Street Lighting | Motors | Early | motor | 46,743 | 70% | 4.8 | 15 | \$2,303 | 86% | 9.6 |
| PPL | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VSD Drive | Street Lighting | Motors | New | motor | 45,738 | 72% | 4.8 | 15 | \$2,243 | 86% | 9.8 |
| PPL | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VSD Drive | Street Lighting | Motors | ROB | motor | 45,738 | 72% | 4.8 | 15 | \$2,243 | 86% | 9.8 |
| PPL | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Street Lighting | Motors | Early | motor | 4,943 | 23% | 0.1 | 15 | \$328 | 13% | 2.2 |
| PPL | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Street Lighting | Motors | New | motor | 4,943 | 23% | 0.1 | 15 | \$268 | 13% | 2.7 |
| PPL | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Street Lighting | Motors | ROB | motor | 4,943 | 23% | 0.1 | 15 | \$268 | 13% | 2.7 |
| PPL | VFD on Chilled Water Pump | Motor w/out VFD Drive | Street Lighting | Motors | Early | motor | 16,452 | 54% | 1.2 | 15 | \$2,903 | 86% | 1.9 |
| PPL | VFD on Chilled Water Pump | Motor w/out VFD Drive | Street Lighting | Motors | New | motor | 16,144 | 55% | 1.2 | 15 | \$2,843 | 86% | 2.0 |
| PPL | VFD on Chilled Water Pump | Motor w/out VFD Drive | Street Lighting | Motors | ROB | motor | 16,144 | 55% | 1.2 | 15 | \$2,843 | 86% | 2.0 |
| PPL | VFD on Condenser Water Pump | Motor w/out VFD Drive | Street Lighting | Motors | Early | motor | 16,379 | 32% | 0.7 | 15 | \$2,903 | 86% | 1.2 |
| PPL | VFD on Condenser Water Pump | Motor w/out VFD Drive | Street Lighting | Motors | New | motor | 16,072 | 33% | 0.7 | 15 | \$2,843 | 86% | 1.2 |
| PPL | VFD on Condenser Water Pump | Motor w/out VFD Drive | Street Lighting | Motors | ROB | motor | 16,072 | 33% | 0.7 | 15 | \$2,843 | 86% | 1.2 |
| PPL | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Street Lighting | Motors | Early | motor | 29,557 | 56% | 2.1 | 15 | \$2,903 | 86% | 3.6 |
| PPL | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Street Lighting | Motors | New | motor | 29,004 | 57% | 2.1 | 15 | \$2,843 | 86% | 3.7 |
| PPL | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Street Lighting | Motors | ROB | motor | 29,004 | 57% | 2.1 | 15 | \$2,843 | 86% | 3.7 |
| PPL | VFD on HVAC Fan | Motor w/out VFD | Street Lighting | Motors | Early | motor | 16,452 | 70% | 1.7 | 15 | \$2,903 | 86% | 2.7 |
| PPL | VFD on HVAC Fan | Motor w/out VFD | Street Lighting | Motors | New | motor | 16,144 | 72% | 1.7 | 15 | \$2,843 | 86% | 2.7 |
| PPL | VFD on HVAC Fan | Motor w/out VFD | Street Lighting | Motors | ROB | motor | 16,144 | 72% | 1.7 | 15 | \$2,843 | 86% | 2.7 |
| PPL | Variable Speed Drives on Process Equipment | Constant speed control | Street Lighting | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 10.4 |
| PPL | Variable Speed Drives on Process Equipment | Constant speed control | Street Lighting | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 4% | 10.4 |
| PPL | Auto Off Time Switch | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | Existing | building | 6,682 | 24% | 0.2 | 8 | \$1,034 | 13% | 0.6 |
| PPL | Auto Off Time Switch | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | New | building | 6,682 | 7.0% | 0.07 | 8 | \$1,034 | 0% | 0.2 |
| PPL | Central Lighting Control System | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | Existing | building | 6,682 | 38% | 0.4 | 8 | \$1,034 | 13% | 1.0 |
| PPL | Central Lighting Control System | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | New | building | 6,682 | 14% | 0.1 | 8 | \$1,034 | 13% | 0.4 |
| PPL | Cold Cathode Screw-In Bulb | 40W Incandescent Bulb | Street Lighting | Other Int. Lighting | Early | lamp | 87 | 87% | 0.01 | 15 | \$33 | 14% | 1.6 |
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | Early | lamp | 62 | 81% | 0.01 | 15 | \$33 | 11% | 1.1 |
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | New | lamp | 47 | 81% | 0.01 | 15 | \$24 | 14% | 1.1 |
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | New | lamp | 47 | 81% | 0.01 | 15 | \$25 | 14% | 1.1 |
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | New | lamp | 47 | 81% | 0.01 | 15 | \$24 | 11% | 1.1 |
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | ROB | lamp | 62 | 81% | 0.01 | 15 | \$24 | 14% | 1.5 |
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | ROB | lamp | 62 | 81% | 0.01 | 15 | \$25 | 14% | 1.4 |
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | ROB | lamp | 62 | 81% | 0.01 | 15 | \$24 | 11% | 1.4 |
| PPL | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Street Lighting | Other Int. Lighting | Early | lamp | 87 | 75% | 0.01 | 7 | \$73 | 39% | 0.3 |
| PPL | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Street Lighting | Other Int. Lighting | New | lamp | 95 | 65% | 0.01 | 13 | \$29 | 46% | 1.3 |
| PPL | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | New | lamp | 47 | 65% | 0.01 | 7 | \$29 | 46% | 0.4 |
| PPL | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Street Lighting | Other Int. Lighting | ROB | lamp | 125 | 65% | 0.01 | 13 | \$29 | 39% | 1.7 |
| PPL | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | ROB | lamp | 62 | 65% | 0.01 | 7 | \$29 | 39% | 0.5 |
| PPL | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Street Lighting | Other Int. Lighting | Early | lamp | 87 | 75% | 0.01 | 7 | \$3.6 | 24% | 6.5 |
| PPL | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | New | lamp | 47 | 65% | 0.01 | 7 | \$1.8 | 24% | 6.3 |
| PPL | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | ROB | lamp | 62 | 65% | 0.01 | 7 | \$1.8 | 24% | 8.3 |
| PPL | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Street Lighting | Other Int. Lighting | ROB | lamp | 62 | 65% | 0.01 | 7 | \$1.8 | 24% | 8.3 |
| PPL | Exit Sign Retrofit: CFL replacing Incandescent | One 23W Single Sided Incandescent Exit Sign | Street Lighting | Other Int. Lighting | Early | exit sign | 139 | 42% | 0.01 | 15 | \$78 | 22% | 0.5 |
| PPL | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Street Lighting | Other Int. Lighting | New | building | 6,682 | 10% | 0.1 | 15 | \$31,039 | 32% | 0.0 |
| PPL | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Street Lighting | Other Int. Lighting | New | building | 6,682 | 15% | 0.2 | 15 | \$77,597 | 32% | 0.0 |
| PPL | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Street Lighting | Other Int. Lighting | New | building | 6,682 | 30% | 0.3 | 15 | \$111,222 | 32% | 0.0 |
| PPL | Indoor Daylight Sensors | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | Existing | building | 6,682 | 28% | 0.3 | 8 | \$5,088 | 13% | 0.1 |
| PPL | Indoor Daylight Sensors | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | New | building | 6,682 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| PPL | LED Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Street Lighting | Other Int. Lighting | Early | sign | 153 | 87% | 0.02 | 15 | \$78 | 16% | 1.1 |
| PPL | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Street Lighting | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 2.0 |
| PPL | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Street Lighting | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 2.0 |
| PPL | LED Task Lighting/Screw-In | 1 15W CFL bulb | Street Lighting | Other Int. Lighting | Early | lamp | 22 | 33% | 0.00 | 15 | \$9.6 | 24% | 0.3 |
| PPL | LED Task Lighting/Screw-In | 1 60W Incandescent Bulb | Street Lighting | Other Int. Lighting | Early | lamp | 89 | 83% | 0.01 | 15 | \$9.6 | 24% | 2.6 |
| PPL | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Street Lighting | Other Int. Lighting | New | lamp | 49 | 77% | 0.01 | 15 | \$7.9 | 24% | 1.6 |
| PPL | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Street Lighting | Other Int. Lighting | New | lamp | 49 | 77% | 0.01 | 15 | \$7.9 | 24% | 1.6 |
| PPL | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Street Lighting | Other Int. Lighting | ROB | lamp | 64 | 77% | 0.01 | 15 | \$7.9 | 24% | 2.1 |
| PPL | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Street Lighting | Other Int. Lighting | ROB | lamp | 64 | 77% | 0.01 | 15 | \$7.9 | 24% | 2.1 |
| PPL | Occupancy Sensor | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | Existing | building | 6,682 | 24% | 0.2 | 8 | \$1,558 | 11% | 0.4 |
| PPL | Occupancy Sensor | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | New | building | 6,682 | 7.0% | 0.07 | 8 | \$1,558 | 0% | 0.1 |
| PPL | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | Existing | building | 6,682 | 28% | 0.3 | 8 | \$5,088 | 11% | 0.1 |
| PPL | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | New | building | 6,682 | 4.1% | 0.04 | 8 | \$5,088 | 0% | 0.0 |
| PPL | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Street Lighting | Other Int. Lighting | Early | exit sign | 139 | 100% | 0.02 | 15 | \$203 | 26% | 0.5 |
| PPL | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Street Lighting | Other Int. Lighting | New | exit sign | 80 | 100% | 0.01 | 15 | \$148 | 31% | 0.4 |
| PPL | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Street Lighting | Other Int. Lighting | ROB | exit sign | 80 | 100% | 0.01 | 15 | \$148 | 26% | 0.4 |
| PPL | Time Clock Control | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | Existing | building | 6,682 | 28% | 0.3 | 8 | \$1,034 | 13% | 0.7 |
| PPL | Time Clock Control | Lighting w/ No Controls | Street Lighting | Other Int. Lighting | New | building | 6,682 | 4.1% | 0.04 | 8 | \$1,034 | 0% | 0.1 |
| PPL | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Street Lighting | Plug Load | Existing | building | 2,913 | 46% | 0.5 | 5 | \$189 | 4% | 2.2 |
| PPL | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Street Lighting | Plug Load | New | building | 1,422 | 46% | 0.5 | 5 | \$189 | 4% | 1.5 |
| PPL | Data Center - Server/Storage Consolidation | No Consolidation | Street Lighting | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PPL | Data Center - Server/Storage Consolidation | No Consolidation | Street Lighting | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PPL | Data Center - Server/Storage Virtualization | No Virtualization | Street Lighting | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|---|-----------------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Data Center - Server/Storage Virtualization | No Virtualization | Street Lighting | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PPL | Energy Star - Scanners | Std Scanner | Street Lighting | Plug Load | New | measure | 68 | 3.8% | 0.04 | 4 | \$130 | 7% | 0.1 |
| PPL | Energy Star - Scanners | Std Scanner | Street Lighting | Plug Load | ROB | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| PPL | Energy Star Dishwasher | Existing Dishwasher units | Street Lighting | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,580 | 0% | 1.0 |
| PPL | Energy Star Dishwasher | Standard Dishwasher unit | Street Lighting | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 0% | 3.2 |
| PPL | Energy Star Dishwasher | Standard Dishwasher unit | Street Lighting | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 0% | 3.3 |
| PPL | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Street Lighting | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 17% | 0.1 |
| PPL | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Street Lighting | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 1.6 |
| PPL | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Street Lighting | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 17% | 1.6 |
| PPL | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Street Lighting | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 9% | 0.8 |
| PPL | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Street Lighting | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.6 |
| PPL | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Street Lighting | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.6 |
| PPL | ENERGY STAR® Copiers | 10% Less Efficient Copier | Street Lighting | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 80% | 0.0 |
| PPL | ENERGY STAR® Copiers | One Conventional Copier | Street Lighting | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 80% | 0.0 |
| PPL | ENERGY STAR® Copiers | One Conventional Copier | Street Lighting | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 80% | 0.0 |
| PPL | ENERGY STAR® desktop | Standard computer | Street Lighting | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 87% | 0.1 |
| PPL | ENERGY STAR® desktop | Standard computer | Street Lighting | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 87% | 2.2 |
| PPL | ENERGY STAR® desktop | Standard computer | Street Lighting | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 87% | 2.2 |
| PPL | ENERGY STAR® Fax | 10% Less Efficient Fax | Street Lighting | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 89% | 0.0 |
| PPL | ENERGY STAR® Fax | One Conventional Fax | Street Lighting | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 89% | 0.2 |
| PPL | ENERGY STAR® Fax | One Conventional Fax | Street Lighting | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 89% | 0.2 |
| PPL | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Street Lighting | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 89% | 0.0 |
| PPL | ENERGY STAR® Monitors | One Conventional Monitor | Street Lighting | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 89% | 0.0 |
| PPL | ENERGY STAR® Monitors | One Conventional Monitor | Street Lighting | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 89% | 0.0 |
| PPL | ENERGY STAR® Printers | 10% Less Efficient Printer | Street Lighting | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 89% | 0.0 |
| PPL | ENERGY STAR® Printers | One Conventional Printer | Street Lighting | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 89% | 0.3 |
| PPL | ENERGY STAR® Printers | One Conventional Printer | Street Lighting | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$130 | 89% | 0.3 |
| PPL | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Street Lighting | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 87% | 0.1 |
| PPL | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Street Lighting | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 87% | 0.8 |
| PPL | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Street Lighting | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 87% | 0.7 |
| PPL | ENERGY STAR® Televisions | 10% Less Efficient Television | Street Lighting | Plug Load | Early | Unit | 111 | 38% | 0.01 | 6 | \$672 | 85% | 0.0 |
| PPL | ENERGY STAR® Televisions | One Conventional Television | Street Lighting | Plug Load | New | Unit | 101 | 32% | 0.01 | 6 | \$206 | 85% | 0.0 |
| PPL | ENERGY STAR® Televisions | One Conventional Television | Street Lighting | Plug Load | ROB | Unit | 101 | 32% | 0.01 | 6 | \$206 | 85% | 0.0 |
| PPL | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Street Lighting | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 81% | 0.3 |
| PPL | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Street Lighting | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 81% | 0.6 |
| PPL | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Street Lighting | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 81% | 0.6 |
| PPL | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Street Lighting | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.2 |
| PPL | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Street Lighting | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.2 |
| PPL | Network PC Power Management | No PC Power Management | Street Lighting | Plug Load | Existing | computer | 425 | 33% | 0.01 | 5 | \$30 | 38% | 1.0 |
| PPL | Network PC Power Management | No PC Power Management | Street Lighting | Plug Load | New | computer | 425 | 33% | 0.01 | 5 | \$30 | 38% | 1.0 |
| PPL | Smart Strip Plug Outlets | Standard plug strip/outlet | Street Lighting | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.4 |
| PPL | Smart Strip Plug Outlets | Standard plug strip/outlet | Street Lighting | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.4 |
| PPL | Smart Strip Plug Outlets | Standard plug strip/outlet | Street Lighting | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PPL | Smart Strip Plug Outlets | Standard plug strip/outlet | Street Lighting | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PPL | Smart Strip Plug Outlets | Standard plug strip/outlet | Street Lighting | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PPL | Smart Strip Plug Outlets | Standard plug strip/outlet | Street Lighting | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PPL | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Street Lighting | Plug Load | Existing | building | 2,913 | 46% | 0.5 | 5 | \$180 | 3% | 2.3 |
| PPL | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Street Lighting | Plug Load | New | building | 1,422 | 46% | 0.5 | 5 | \$180 | 3% | 1.5 |
| PPL | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Street Lighting | Refrigeration | Existing | building | 211 | 2.1% | 0.02 | 12 | \$70 | 11% | 0.2 |
| PPL | Anti-sweat heat (ASH) controls - Cooler | System w/out ASH Controls | Street Lighting | Refrigeration | New | building | 211 | 2.1% | 0.02 | 12 | \$70 | 11% | 0.2 |
| PPL | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Street Lighting | Refrigeration | Existing | building | 211 | 7.0% | 0.07 | 12 | \$70 | 11% | 0.7 |
| PPL | Anti-sweat heat (ASH) controls - Freezer | System w/out ASH Controls | Street Lighting | Refrigeration | New | building | 211 | 7.0% | 0.07 | 12 | \$70 | 11% | 0.7 |
| PPL | Auto Closer on Refrigerator Door | Door w/out Autocloser | Street Lighting | Refrigeration | Existing | building | 1,179 | 48% | 0.5 | 8 | \$747 | 40% | 0.5 |
| PPL | Auto Closer on Refrigerator Door | Door w/out Autocloser | Street Lighting | Refrigeration | Existing | building | 3,996 | 17% | 0.2 | 8 | \$476 | 40% | 0.6 |
| PPL | Auto Closer on Refrigerator Door | Door w/out Autocloser | Street Lighting | Refrigeration | New | building | 1,179 | 48% | 0.5 | 8 | \$747 | 40% | 0.5 |
| PPL | Auto Closer on Refrigerator Door | Door w/out Autocloser | Street Lighting | Refrigeration | New | building | 3,996 | 17% | 0.2 | 8 | \$476 | 40% | 0.6 |
| PPL | Demand Hot Gas Defrost | Base Refrigeration System | Street Lighting | Refrigeration | Existing | measure | 211 | 3.0% | 0.03 | 10 | \$1,314 | 0% | 0.0 |
| PPL | Demand Hot Gas Defrost | Base Refrigeration System | Street Lighting | Refrigeration | New | measure | 211 | 3.0% | 0.03 | 10 | \$1,314 | 0% | 0.0 |
| PPL | Door Gasket- Freezer | Door w/out Gasket | Street Lighting | Refrigeration | Existing | building | 1,179 | 6.6% | 0.3 | 4 | \$11 | 29% | 7.0 |
| PPL | Door Gasket- Freezer | Door w/out Gasket | Street Lighting | Refrigeration | New | building | 1,179 | 6.6% | 0.3 | 4 | \$11 | 29% | 7.0 |
| PPL | Door Gasket- Refrigerator | Door w/out Gasket | Street Lighting | Refrigeration | Existing | building | 3,996 | 5.4% | 0.05 | 4 | \$66 | 45% | 0.7 |
| PPL | Door Gasket- Refrigerator | Door w/out Gasket | Street Lighting | Refrigeration | New | building | 3,996 | 5.4% | 0.05 | 4 | \$66 | 45% | 0.7 |
| PPL | eCube | Refrigeration unit w/out eCube | Street Lighting | Refrigeration | Existing | building | 3,996 | 15% | 0.2 | 15 | \$504 | 57% | 0.8 |
| PPL | eCube | Refrigeration unit w/out eCube | Street Lighting | Refrigeration | New | building | 3,996 | 15% | 0.2 | 15 | \$504 | 57% | 0.8 |
| PPL | Efficient compressor motor | Base Refrigeration System - Grocery | Street Lighting | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| PPL | Efficient compressor motor | Base Refrigeration System - Grocery | Street Lighting | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| PPL | Efficient compressor motor | Base Refrigeration System - Grocery | Street Lighting | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| PPL | Efficient compressor motor | Base Refrigeration System - Grocery | Street Lighting | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| PPL | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Street Lighting | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.6 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|---|-----------------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Street Lighting | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| PPL | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Street Lighting | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| PPL | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Street Lighting | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.3 |
| PPL | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Street Lighting | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.7 |
| PPL | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Street Lighting | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.7 |
| PPL | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Street Lighting | Refrigeration | Existing | building | 3,996 | 3.1% | 0.03 | 10 | \$369 | 77% | 0.2 |
| PPL | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Street Lighting | Refrigeration | New | building | 3,996 | 3.1% | 0.03 | 10 | \$369 | 77% | 0.2 |
| PPL | Floating head pressure controller | System w/out FHPC | Street Lighting | Refrigeration | Existing | building | 1,179 | 4.5% | 0.05 | 15 | \$8,682 | 41% | 0.0 |
| PPL | Floating head pressure controller | System w/out FHPC | Street Lighting | Refrigeration | Existing | building | 211 | 2.0% | 0.02 | 15 | \$8,682 | 41% | 0.0 |
| PPL | Floating head pressure controller | System w/out FHPC | Street Lighting | Refrigeration | Existing | building | 3,996 | 1.8% | 0.02 | 15 | \$8,682 | 41% | 0.0 |
| PPL | Floating head pressure controller | System w/out FHPC | Street Lighting | Refrigeration | New | building | 1,179 | 4.5% | 0.05 | 15 | \$8,682 | 41% | 0.0 |
| PPL | Floating head pressure controller | System w/out FHPC | Street Lighting | Refrigeration | New | building | 211 | 2.0% | 0.02 | 15 | \$8,682 | 41% | 0.0 |
| PPL | Floating head pressure controller | System w/out FHPC | Street Lighting | Refrigeration | New | building | 3,996 | 1.8% | 0.02 | 15 | \$8,682 | 41% | 0.0 |
| PPL | High Efficiency Commercial Freezer | Std. Commercial Freezer | Street Lighting | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 86% | 0.3 |
| PPL | High Efficiency Commercial Freezer | Std. Commercial Freezer | Street Lighting | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 3.9 |
| PPL | High Efficiency Commercial Freezer | Std. Commercial Freezer | Street Lighting | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 3.9 |
| PPL | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Street Lighting | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 2% | 0.1 |
| PPL | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Street Lighting | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.9 |
| PPL | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Street Lighting | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.9 |
| PPL | High Efficiency Ice Maker | Exisiting Standard Efficiency Ice Maker in Pennsylvania | Street Lighting | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 73% | 0.2 |
| PPL | High Efficiency Ice Maker | Standard code minimum Ice Maker | Street Lighting | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| PPL | High Efficiency Ice Maker | Standard code minimum Ice Maker | Street Lighting | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| PPL | High Efficiency Ice Making Head | Standard Ice Making Head | Street Lighting | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.7 |
| PPL | High Efficiency Ice Making Head | Standard Ice Making Head | Street Lighting | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.7 |
| PPL | High R-Value Glass Doors | Base Refrigeration System - Grocery | Street Lighting | Refrigeration | Existing | building | 211 | 0.7% | 0.01 | 10 | \$8.2 | 0% | 0.5 |
| PPL | High R-Value Glass Doors | Base Refrigeration System - Grocery | Street Lighting | Refrigeration | New | building | 211 | 0.7% | 0.01 | 10 | \$8.2 | 0% | 0.5 |
| PPL | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Street Lighting | Refrigeration | Early | Fixture | 373 | 56% | 0.01 | 8 | \$448 | 47% | 0.1 |
| PPL | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Street Lighting | Refrigeration | New | Fixture | 291 | 44% | 0.00 | 8 | \$139 | 47% | 0.3 |
| PPL | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Street Lighting | Refrigeration | ROB | Fixture | 291 | 44% | 0.00 | 8 | \$139 | 47% | 0.3 |
| PPL | No-heat glass doors | Standard low-temp reach-in | Street Lighting | Refrigeration | Existing | building | 211 | 20% | 0.2 | 10 | \$753 | 8% | 0.2 |
| PPL | No-heat glass doors | Standard low-temp reach-in | Street Lighting | Refrigeration | New | building | 211 | 20% | 0.2 | 10 | \$753 | 8% | 0.2 |
| PPL | Quick acting freezer doors | Std. Freezer Doors | Street Lighting | Refrigeration | Existing | building | 1,179 | 13% | 0.1 | 10 | \$443 | 56% | 0.3 |
| PPL | Quick acting freezer doors | Std. Freezer Doors | Street Lighting | Refrigeration | New | building | 1,179 | 13% | 0.1 | 10 | \$443 | 56% | 0.3 |
| PPL | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Street Lighting | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 30% | 0.4 |
| PPL | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Street Lighting | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.6 |
| PPL | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Street Lighting | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.6 |
| PPL | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 30% | 1.6 |
| PPL | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 2.8 |
| PPL | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 2.8 |
| PPL | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 30% | 1.6 |
| PPL | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 3.8 |
| PPL | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 3.8 |
| PPL | Refrigeration Commissioning | Non-commissioned refrigeration system | Street Lighting | Refrigeration | Existing | building | 5,582 | 9.5% | 0.10 | 3 | \$1,204 | 85% | 0.1 |
| PPL | Refrigeration Commissioning | Non-commissioned refrigeration system | Street Lighting | Refrigeration | New | building | 5,582 | 9.5% | 0.10 | 3 | \$1,204 | 85% | 0.1 |
| PPL | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Street Lighting | Refrigeration | Existing | building | 1,179 | 62% | 0.6 | 4 | \$93 | 22% | 3.0 |
| PPL | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Street Lighting | Refrigeration | Existing | building | 3,996 | 7.6% | 0.08 | 4 | \$80 | 22% | 0.9 |
| PPL | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Street Lighting | Refrigeration | New | building | 1,179 | 62% | 0.6 | 4 | \$93 | 22% | 3.0 |
| PPL | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Street Lighting | Refrigeration | New | building | 3,996 | 7.6% | 0.08 | 4 | \$80 | 22% | 0.9 |
| PPL | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Street Lighting | Refrigeration | Existing | building | 1,179 | 11% | 0.1 | 11 | \$119 | 79% | 0.9 |
| PPL | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Street Lighting | Refrigeration | New | building | 1,179 | 11% | 0.1 | 11 | \$119 | 79% | 0.9 |
| PPL | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Street Lighting | Refrigeration | Existing | building | 3,996 | 8.1% | 0.08 | 11 | \$119 | 79% | 1.5 |
| PPL | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Street Lighting | Refrigeration | New | building | 3,996 | 8.1% | 0.08 | 11 | \$119 | 79% | 1.5 |
| PPL | Vertical Night Covers | Display cases w/out night covers-High Temperature | Street Lighting | Refrigeration | Existing | building | 211 | 1.1% | 0.01 | 5 | \$52 | 9% | 0.1 |
| PPL | Vertical Night Covers | Display cases w/out night covers-High Temperature | Street Lighting | Refrigeration | New | building | 211 | 1.1% | 0.01 | 5 | \$52 | 9% | 0.1 |
| PPL | VSD Controlled Compressor | Compressor w/out VSD | Street Lighting | Refrigeration | Early | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |
| PPL | VSD Controlled Compressor | Compressor w/out VSD | Street Lighting | Refrigeration | New | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |
| PPL | VSD Controlled Compressor | Compressor w/out VSD | Street Lighting | Refrigeration | ROB | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |
| PPL | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Street Lighting | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$269 | 24% | 0.9 |
| PPL | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Street Lighting | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$269 | 24% | 0.8 |
| PPL | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Street Lighting | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 24% | 3.0 |
| PPL | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Street Lighting | Refrigeration | New | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 24% | 2.9 |
| PPL | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Street Lighting | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 24% | 3.0 |
| PPL | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Street Lighting | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 24% | 2.9 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|---|-----------------|-----------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 24% | 2.3 |
| PPL | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 24% | 2.2 |
| PPL | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$151 | 24% | 4.1 |
| PPL | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$151 | 24% | 3.9 |
| PPL | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$151 | 24% | 4.1 |
| PPL | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Street Lighting | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$151 | 24% | 3.9 |
| PPL | Adding reflective roof treatment | Std color roof | Street Lighting | Space Heating | Existing | building | 8,280 | 7.1% | 0.07 | 6 | \$12,711 | 82% | 0.0 |
| PPL | Adding reflective roof treatment | Std color roof | Street Lighting | Space Heating | New | building | 8,280 | 7.1% | 0.07 | 6 | \$12,711 | 82% | 0.0 |
| PPL | Adding window shade film | No shade film | Street Lighting | Space Heating | Existing | building | 8,280 | 1.3% | 0.4 | 10 | \$101 | 13% | 2.4 |
| PPL | Adding window shade film | No shade film | Street Lighting | Space Heating | New | building | 8,280 | 1.3% | 0.4 | 10 | \$101 | 13% | 2.4 |
| PPL | Adding window shade screen | No shade screen | Street Lighting | Space Heating | Existing | building | 8,280 | 1.1% | 0.01 | 10 | \$39 | 13% | 1.0 |
| PPL | Adding window shade screen | No shade screen | Street Lighting | Space Heating | New | building | 8,280 | 1.1% | 0.01 | 10 | \$39 | 13% | 1.0 |
| PPL | Automated control system | Manual Controls | Street Lighting | Space Heating | Existing | building | 8,280 | 17% | 0.2 | 15 | \$9,065 | 51% | 0.1 |
| PPL | Automated control system | Manual Controls | Street Lighting | Space Heating | New | building | 8,280 | 17% | 0.2 | 15 | \$9,065 | 94% | 0.1 |
| PPL | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Street Lighting | Space Heating | Existing | building | 8,280 | 6.2% | 0.06 | 15 | \$17,130 | 71% | 0.0 |
| PPL | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Street Lighting | Space Heating | New | building | 8,280 | 2.1% | 0.02 | 15 | \$16,283 | 94% | 0.0 |
| PPL | Duct Insulation, Add R8 | No Insulation | Street Lighting | Space Heating | Existing | building | 8,280 | 1.4% | 0.04 | 15 | \$66 | 20% | 1.4 |
| PPL | Duct Insulation, Add R8 | No Insulation | Street Lighting | Space Heating | New | building | 8,280 | 1.4% | 0.04 | 15 | \$66 | 10% | 1.4 |
| PPL | Efficient Unit Heating System | Existing Unit Heaters in PA | Street Lighting | Space Heating | Early | heater | 31,042 | 23% | 0.05 | 15 | \$3,289 | 83% | 1.2 |
| PPL | Efficient Unit Heating System | Std. Unit Heater | Street Lighting | Space Heating | New | heater | 27,550 | 13% | 0.03 | 15 | \$1,985 | 83% | 1.0 |
| PPL | Efficient Unit Heating System | Std. Unit Heater | Street Lighting | Space Heating | ROB | heater | 27,550 | 13% | 0.03 | 15 | \$1,985 | 83% | 1.0 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Street Lighting | Space Heating | Existing | building | 8,280 | 7.1% | 0.07 | 15 | \$36,730 | 25% | 0.0 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Street Lighting | Space Heating | New | building | 8,280 | 7.1% | 0.07 | 15 | \$36,730 | 35% | 0.0 |
| PPL | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Street Lighting | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$77 | 0% | 1.0 |
| PPL | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Street Lighting | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$77 | 0% | 1.0 |
| PPL | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Street Lighting | Space Heating | Existing | building | 8,280 | 2.2% | 0.02 | 10 | \$7,735 | 81% | 0.0 |
| PPL | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Street Lighting | Space Heating | New | building | 8,280 | 2.2% | 0.02 | 10 | \$7,735 | 81% | 0.0 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Street Lighting | Space Heating | Existing | building | 8,280 | 3.6% | 0.04 | 11 | \$286 | 49% | 0.5 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Street Lighting | Space Heating | New | building | 8,280 | 3.1% | 0.03 | 11 | \$146 | 49% | 0.9 |
| PPL | Re-Commissioning (Existing Construction) | No Re-Commissioning | Street Lighting | Space Heating | Existing | building | 8,280 | 16% | 0.2 | 5 | \$8,542 | 86% | 0.0 |
| PPL | VFD on Cooling Tower Fan | Motor w/out VFD | Street Lighting | Space Heating | Early | motor | 16,452 | 70% | 0.09 | 15 | \$2,843 | 88% | 2.2 |
| PPL | VFD on Cooling Tower Fan | Motor w/out VFD | Street Lighting | Space Heating | New | motor | 16,144 | 72% | 0.09 | 15 | \$2,843 | 88% | 2.2 |
| PPL | VFD on Cooling Tower Fan | Motor w/out VFD | Street Lighting | Space Heating | ROB | motor | 16,144 | 72% | 0.09 | 15 | \$2,843 | 88% | 2.2 |
| PPL | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Street Lighting | Space Heating | Existing | building | 8,281 | 11% | 0.1 | 15 | \$3,285 | 26% | 0.2 |
| PPL | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Street Lighting | Space Heating | New | building | 8,281 | 0.3% | 0.00 | 15 | \$2,520 | 94% | 0.0 |
| PPL | Green LED Traffic Light | Green Incandescent Traffic Light | Street Lighting | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 67% | 1.2 |
| PPL | Green LED Traffic Light | Green Incandescent Traffic Light | Street Lighting | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 67% | 0.1 |
| PPL | Green LED Traffic Light | Green Incandescent Traffic Light | Street Lighting | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 67% | 0.1 |
| PPL | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Street Lighting | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 4% | 3.0 |
| PPL | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Street Lighting | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 4% | 0.4 |
| PPL | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Street Lighting | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 4% | 0.4 |
| PPL | Induction Street Lighting | One 100W HPS Street Light Fixture | Street Lighting | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 87% | 0.3 |
| PPL | Induction Street Lighting | One 100W HPS Street Light Fixture | Street Lighting | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 87% | 1.7 |
| PPL | Induction Street Lighting | One 100W HPS Street Light Fixture | Street Lighting | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 87% | 1.7 |
| PPL | LED Street Lighting | One 100W HPS Street Light | Street Lighting | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 88% | 0.2 |
| PPL | LED Street Lighting | One 100W HPS Street Light | Street Lighting | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 88% | 0.3 |
| PPL | LED Street Lighting | One 100W HPS Street Light | Street Lighting | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 88% | 0.3 |
| PPL | Red LED Traffic Light | One Red Incandescent Traffic Light | Street Lighting | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 67% | 1.6 |
| PPL | Red LED Traffic Light | One Red Incandescent Traffic Light | Street Lighting | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 67% | 0.3 |
| PPL | Red LED Traffic Light | One Red Incandescent Traffic Light | Street Lighting | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 67% | 0.3 |
| PPL | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Street Lighting | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 67% | 0.1 |
| PPL | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Street Lighting | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 67% | 0.0 |
| PPL | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Street Lighting | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 67% | 0.0 |
| PPL | Demand controlled Circulating Systems | Constant circulation system | Street Lighting | Water Heating | Existing | building | 2,112 | 20% | 0.2 | 15 | \$381 | 59% | 1.0 |
| PPL | Demand controlled Circulating Systems | Constant circulation system | Street Lighting | Water Heating | New | building | 2,112 | 20% | 0.2 | 15 | \$381 | 59% | 1.0 |
| PPL | Drainwater Heat Recovery Water Heater | No heat recovery | Street Lighting | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.9 |
| PPL | Drainwater Heat Recovery Water Heater | No heat recovery | Street Lighting | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.9 |
| PPL | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Street Lighting | Water Heating | Existing | building | 2,112 | 5.9% | 0.06 | 12 | \$14 | 85% | 6.7 |
| PPL | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Street Lighting | Water Heating | New | building | 2,112 | 5.9% | 0.06 | 12 | \$4.0 | 85% | 23.5 |
| PPL | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Street Lighting | Water Heating | Early | water heater | 10,645 | 66% | 1.2 | 10 | \$2,045 | 68% | 1.7 |
| PPL | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Street Lighting | Water Heating | Early | water heater | 10,645 | 66% | 1.2 | 10 | \$2,045 | 68% | 1.7 |
| PPL | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Street Lighting | Water Heating | New | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 2.9 |
| PPL | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Street Lighting | Water Heating | New | water heater | 10,645 | 66% | 1.2 | 10 | \$1,187 | 68% | 2.9 |
| PPL | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Street Lighting | Water Heating | ROB | water heater | 10,350 | 65% | 1.2 | 10 | \$1,187 | 68% | 2.8 |
| PPL | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Street Lighting | Water Heating | ROB | water heater | 10,350 | 65% | 1.2 | 10 | \$1,187 | 68% | 2.8 |
| PPL | Heat Recovery Unit | Base Water Heating | Street Lighting | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.6 |
| PPL | Heat Recovery Unit | Base Water Heating | Street Lighting | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.6 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|---|-----------------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Street Lighting | Water Heating | Early | water heater | 10,645 | 5.9% | 0.1 | 15 | \$865 | 79% | 0.5 |
| PPL | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Street Lighting | Water Heating | Early | water heater | 10,645 | 5.9% | 0.1 | 15 | \$865 | 79% | 0.5 |
| PPL | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Street Lighting | Water Heating | New | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.8 |
| PPL | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Street Lighting | Water Heating | New | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.8 |
| PPL | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Street Lighting | Water Heating | ROB | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.8 |
| PPL | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Street Lighting | Water Heating | ROB | water heater | 10,350 | 3.2% | 0.06 | 15 | \$307 | 79% | 0.8 |
| PPL | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Street Lighting | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$646 | 81% | 28.2 |
| PPL | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Street Lighting | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 20.4 |
| PPL | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Street Lighting | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 20.4 |
| PPL | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Street Lighting | Water Heating | Existing | building | 2,112 | 1.7% | 0.02 | 13 | \$5.4 | 68% | 5.4 |
| PPL | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Street Lighting | Water Heating | New | building | 2,112 | 1.7% | 0.02 | 13 | \$5.4 | 0% | 5.4 |
| PPL | Hot Water Circulation Pump Time-Clock | Constant circulation system | Street Lighting | Water Heating | Existing | building | 2,112 | 5.3% | 0.05 | 10 | \$8.5 | 72% | 8.5 |
| PPL | Hot Water Circulation Pump Time-Clock | Constant circulation system | Street Lighting | Water Heating | New | building | 2,112 | 5.3% | 0.05 | 10 | \$8.5 | 72% | 8.5 |
| PPL | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Street Lighting | Water Heating | Existing | building | 2,112 | 0.9% | 0.01 | 7 | \$22 | 78% | 0.4 |
| PPL | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Street Lighting | Water Heating | New | building | 2,112 | 0.8% | 0.01 | 7 | \$0.5 | 78% | 16.3 |
| PPL | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Street Lighting | Water Heating | Existing | building | 2,112 | 9.0% | 0.09 | 5 | \$300 | 0% | 0.2 |
| PPL | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Street Lighting | Water Heating | New | building | 2,112 | 6.0% | 0.06 | 5 | \$194 | 0% | 0.2 |
| PPL | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Street Lighting | Water Heating | Existing | building | 2,112 | 6.5% | 0.07 | 9 | \$25 | 2% | 3.2 |
| PPL | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Street Lighting | Water Heating | New | building | 2,112 | 6.5% | 0.07 | 9 | \$6.0 | 2% | 13.5 |
| PPL | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Street Lighting | Water Heating | Early | water heater | 10,645 | 52% | 0.4 | 15 | \$7,080 | 32% | 0.5 |
| PPL | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Street Lighting | Water Heating | New | water heater | 10,350 | 51% | 0.4 | 15 | \$6,222 | 32% | 0.5 |
| PPL | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Street Lighting | Water Heating | ROB | water heater | 10,350 | 51% | 0.4 | 15 | \$6,222 | 32% | 0.5 |
| PPL | Ultrasonic Faucet Control | Manual Faucet Control | Street Lighting | Water Heating | Existing | building | 2,112 | 3.0% | 0.03 | 10 | \$365 | 77% | 0.1 |
| PPL | Ultrasonic Faucet Control | Manual Faucet Control | Street Lighting | Water Heating | New | building | 2,112 | 3.0% | 0.03 | 10 | \$365 | 77% | 0.1 |
| PPL | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Street Lighting | Water Heating | Existing | building | 2,112 | 2.2% | 0.02 | 4 | \$28 | 83% | 0.5 |
| PPL | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Street Lighting | Water Heating | New | building | 2,112 | 2.3% | 0.02 | 4 | \$28 | 83% | 0.5 |
| PPL | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Warehouse | Cooking | New | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.1 |
| PPL | Commercial Hot Food Holding Cabinets (Energy Star) | Standard Cabinet | Warehouse | Cooking | ROB | measure | 8,213 | 36% | 0.5 | 12 | \$1,500 | 0% | 1.1 |
| PPL | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Warehouse | Cooking | Early | steamer | 16 | 68% | 0.00 | 12 | \$5,103 | 81% | 0.0 |
| PPL | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Warehouse | Cooking | New | steamer | 7 | 29% | 0.00 | 12 | \$601 | 81% | 0.0 |
| PPL | Efficient Steamer (ENERGY STAR) | 6 pan Steamer non-ENERGY STAR | Warehouse | Cooking | ROB | steamer | 7 | 29% | 0.00 | 12 | \$601 | 81% | 0.0 |
| PPL | Electric combination oven (Energy Star) | Standard Oven | Warehouse | Cooking | New | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.9 |
| PPL | Electric combination oven (Energy Star) | Standard Oven | Warehouse | Cooking | ROB | measure | 39,353 | 38% | 3.5 | 12 | \$3,065 | 0% | 2.9 |
| PPL | Electric Convection Oven | Conventional convection oven w/ 65% efficiency | Warehouse | Cooking | Early | oven | 8,641 | 37% | 0.6 | 12 | \$4,169 | 81% | 0.4 |
| PPL | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Warehouse | Cooking | New | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.7 |
| PPL | Electric Convection Oven | Conventional convection oven w/ 70% efficiency | Warehouse | Cooking | ROB | oven | 6,914 | 21% | 0.3 | 12 | \$1,113 | 81% | 0.7 |
| PPL | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer w/ Heavy Load Efficiency of 75% | Warehouse | Cooking | Early | fryer | 6,105 | 23% | 0.3 | 12 | \$9,291 | 86% | 0.1 |
| PPL | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Warehouse | Cooking | New | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| PPL | High Efficiency Fryer (ENERGY STAR) | Standard Electric Fryer meeting Code Minimum | Warehouse | Cooking | ROB | fryer | 6,105 | 23% | 0.3 | 12 | \$2,366 | 86% | 0.3 |
| PPL | High Efficiency Griddle (ENERGY STAR) | Efficiency code minimum griddle (70% eff) | Warehouse | Cooking | Early | griddle | 11,317 | 65% | 1.4 | 12 | \$4,992 | 86% | 0.8 |
| PPL | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Warehouse | Cooking | New | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.2 |
| PPL | High Efficiency Griddle (ENERGY STAR) | Conventional Griddle w/ 60% efficiency | Warehouse | Cooking | ROB | griddle | 7,456 | 48% | 0.7 | 12 | \$1,700 | 86% | 1.2 |
| PPL | High Efficiency Induction Cooking | Standard Cooking | Warehouse | Cooking | New | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| PPL | High Efficiency Induction Cooking | Standard Cooking | Warehouse | Cooking | ROB | measure | 3,733 | 18% | 0.2 | 11 | \$2,800 | 0% | 0.1 |
| PPL | Adding reflective roof treatment | Std color roof | Warehouse | Cooling Central | Existing | building | 2,353 | 7.0% | 0.07 | 6 | \$20,704 | 82% | 0.0 |
| PPL | Adding reflective roof treatment | Std color roof | Warehouse | Cooling Central | New | building | 2,353 | 7.0% | 0.07 | 6 | \$20,704 | 82% | 0.0 |
| PPL | Adding window shade film | No shade film | Warehouse | Cooling Central | Existing | building | 2,353 | 1.3% | 0.4 | 10 | \$29 | 13% | 7.3 |
| PPL | Adding window shade film | No shade film | Warehouse | Cooling Central | New | building | 2,353 | 1.3% | 0.4 | 10 | \$29 | 13% | 7.3 |
| PPL | Adding window shade screen | No shade screen | Warehouse | Cooling Central | Existing | building | 2,353 | 1.1% | 0.01 | 10 | \$11 | 13% | 1.3 |
| PPL | Adding window shade screen | No shade screen | Warehouse | Cooling Central | New | building | 2,353 | 1.0% | 0.01 | 10 | \$11 | 13% | 1.3 |
| PPL | Automated control system | Manual Controls | Warehouse | Cooling Central | Existing | building | 2,353 | 17% | 0.2 | 15 | \$2,576 | 51% | 0.1 |
| PPL | Automated control system | Manual Controls | Warehouse | Cooling Central | New | building | 2,353 | 17% | 0.2 | 15 | \$2,576 | 94% | 0.1 |
| PPL | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Warehouse | Cooling Central | Existing | building | 2,353 | 5.9% | 0.06 | 15 | \$27,901 | 71% | 0.0 |
| PPL | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Warehouse | Cooling Central | New | building | 2,353 | 3.7% | 0.04 | 15 | \$26,520 | 94% | 0.0 |
| PPL | Chiller Tuneup/Diagnostics | No tuneup | Warehouse | Cooling Central | Existing | building | 2,353 | 8.0% | 0.08 | 10 | \$6,009 | 59% | 0.0 |
| PPL | Chiller Tuneup/Diagnostics | No tuneup | Warehouse | Cooling Central | New | building | 2,353 | 8.0% | 0.08 | 10 | \$6,009 | 59% | 0.0 |
| PPL | Cooling Tower Optimization | No Cooling Tower Optimization | Warehouse | Cooling Central | Existing | building | 2,353 | 20% | 0.2 | 10 | \$14 | 69% | 18.8 |
| PPL | Duct Insulation, Add R8 | No Insulation | Warehouse | Cooling Central | Existing | building | 2,353 | 1.4% | 0.04 | 15 | \$19 | 20% | 2.4 |
| PPL | Duct Insulation, Add R8 | No Insulation | Warehouse | Cooling Central | New | building | 2,353 | 1.4% | 0.04 | 15 | \$19 | 10% | 2.4 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Warehouse | Cooling Central | Existing | building | 2,353 | 7.0% | 0.07 | 15 | \$10,439 | 25% | 0.0 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Warehouse | Cooling Central | New | building | 2,353 | 7.0% | 0.07 | 15 | \$10,439 | 35% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|---|-----------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Hi Eff HVAC System Design | No HVAC Design | Warehouse | Cooling Central | New | building | 2,353 | 12% | 0.1 | 10 | \$129,743 | 51% | 0.0 |
| PPL | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | Early | ton | 4,365 | 24% | 0.4 | 15 | \$108,550 | 89% | 0.0 |
| PPL | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | New | ton | 3,568 | 6.7% | 0.08 | 15 | \$12,927 | 89% | 0.0 |
| PPL | High Efficiency Air Cooled Chiller, 100 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | ROB | ton | 3,568 | 6.7% | 0.08 | 15 | \$12,927 | 89% | 0.0 |
| PPL | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | Early | ton | 6,522 | 23% | 0.5 | 15 | \$140,105 | 89% | 0.0 |
| PPL | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | New | ton | 5,247 | 4.9% | 0.09 | 15 | \$9,336 | 89% | 0.0 |
| PPL | High Efficiency Air Cooled Chiller, 150 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | ROB | ton | 5,247 | 4.9% | 0.09 | 15 | \$9,336 | 89% | 0.0 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | Early | ton | 53,390 | 26% | 4.8 | 15 | \$105,354 | 89% | 0.1 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | New | ton | 46,518 | 15% | 2.4 | 15 | \$30,530 | 89% | 0.2 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 175 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | ROB | ton | 46,518 | 15% | 2.4 | 15 | \$30,530 | 89% | 0.2 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | Early | ton | 79,963 | 23% | 6.4 | 15 | \$154,107 | 89% | 0.1 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | New | ton | 73,456 | 16% | 4.1 | 15 | \$27,646 | 89% | 0.3 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 300 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | ROB | ton | 79,963 | 23% | 6.4 | 15 | \$27,646 | 89% | 0.5 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | Early | ton | 132,804 | 23% | 10.4 | 15 | \$302,924 | 89% | 0.1 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | New | ton | 120,197 | 14% | 6.0 | 15 | \$115,432 | 89% | 0.1 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 500 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | ROB | ton | 132,804 | 23% | 10.4 | 15 | \$115,432 | 89% | 0.2 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | Early | ton | 159,365 | 23% | 12.5 | 15 | \$350,154 | 89% | 0.1 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | New | ton | 144,236 | 14% | 7.3 | 15 | \$120,406 | 89% | 0.1 |
| PPL | High Efficiency Water Cooled Centrifugal Chiller, 600 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | ROB | ton | 159,365 | 23% | 12.5 | 15 | \$120,406 | 89% | 0.2 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | Early | ton | 35,325 | 29% | 3.6 | 15 | \$83,632 | 89% | 0.1 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | New | ton | 27,429 | 9.0% | 0.9 | 15 | \$40,211 | 89% | 0.0 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 100 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | ROB | ton | 35,325 | 29% | 3.6 | 15 | \$40,211 | 89% | 0.2 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | Early | ton | 60,696 | 35% | 7.3 | 15 | \$132,173 | 89% | 0.1 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | New | ton | 45,269 | 13% | 2.0 | 15 | \$39,556 | 89% | 0.1 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 175 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | ROB | ton | 45,269 | 13% | 2.0 | 15 | \$39,556 | 89% | 0.1 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | Early | ton | 101,337 | 39% | 13.8 | 15 | \$187,029 | 89% | 0.2 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | New | ton | 72,252 | 15% | 3.7 | 15 | \$33,554 | 89% | 0.2 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 300 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | ROB | ton | 101,337 | 39% | 13.8 | 15 | \$33,554 | 89% | 0.9 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | Early | ton | 17,733 | 30% | 1.8 | 15 | \$32,398 | 89% | 0.1 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | New | ton | 14,049 | 11% | 0.5 | 15 | \$7,188 | 89% | 0.2 |
| PPL | High Efficiency Water Cooled Reciprocating Chiller, 50 Tons | Standard code minimum Chiller | Warehouse | Cooling Central | ROB | ton | 17,733 | 30% | 1.8 | 15 | \$7,188 | 89% | 0.6 |
| PPL | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Warehouse | Cooling Central | Existing | building | 2,353 | 1.1% | 0.01 | 10 | \$42,091 | 81% | 0.0 |
| PPL | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Warehouse | Cooling Central | New | building | 2,353 | 1.1% | 0.01 | 10 | \$42,091 | 81% | 0.0 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Warehouse | Cooling Central | Existing | building | 2,353 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.1 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Warehouse | Cooling Central | New | building | 2,353 | 1.7% | 0.02 | 11 | \$146 | 49% | 0.2 |
| PPL | Re-Commissioning (Existing Construction) | No Re-Commissioning | Warehouse | Cooling Central | Existing | building | 2,353 | 16% | 0.2 | 5 | \$8,619 | 86% | 0.0 |
| PPL | Wall Insultions (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Warehouse | Cooling Central | Existing | building | 2,353 | 19% | 0.2 | 15 | \$6,551 | 26% | 0.1 |
| PPL | Wall Insultions (Going upto R 21) | Code minimum Wall Insulations | Warehouse | Cooling Central | New | building | 2,353 | 0.6% | 0.01 | 15 | \$5,025 | 94% | 0.0 |
| PPL | <65k BTU/hr 14 SEER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Warehouse | Cooling Unitary | Early | ton | 5,051 | 16% | 0.2 | 15 | \$1,545 | 28% | 0.4 |
| PPL | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Warehouse | Cooling Unitary | New | ton | 4,575 | 7.1% | 0.07 | 15 | \$339 | 28% | 0.7 |
| PPL | <65k BTU/hr 14 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Warehouse | Cooling Unitary | ROB | ton | 4,575 | 7.1% | 0.07 | 15 | \$339 | 28% | 0.7 |
| PPL | <65k BTU/hr 15 SEER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Warehouse | Cooling Unitary | Early | ton | 5,051 | 22% | 0.1 | 15 | \$1,821 | 28% | 0.4 |
| PPL | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Warehouse | Cooling Unitary | New | ton | 4,575 | 13% | 0.2 | 15 | \$714 | 28% | 0.7 |
| PPL | <65k BTU/hr 15 SEER Air Conditioner | 36000 BTU Efficient 13 SEER AC | Warehouse | Cooling Unitary | ROB | ton | 4,575 | 13% | 0.2 | 15 | \$714 | 28% | 0.7 |
| PPL | <65k BTU/hr 16 SEER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Warehouse | Cooling Unitary | Early | ton | 5,051 | 26% | 0.3 | 15 | \$2,098 | 29% | 0.4 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|--|-----------|-----------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Warehouse | Cooling Unitary | New | ton | 4,575 | 19% | 0.2 | 15 | \$1,089 | 29% | 0.5 |
| PPL | <65k BTU/hr 16 SEER Air Conditioner | 36000 BTU Efficient 16 SEER AC | Warehouse | Cooling Unitary | ROB | ton | 4,575 | 19% | 0.2 | 15 | \$1,089 | 29% | 0.5 |
| PPL | >760k min 10.2 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Warehouse | Cooling Unitary | Early | ton | 127,796 | 3.7% | 1.0 | 15 | \$68,066 | 35% | 0.0 |
| PPL | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Warehouse | Cooling Unitary | New | ton | 129,435 | 4.9% | 1.3 | 15 | \$6,231 | 35% | 0.7 |
| PPL | >760k min 10.2 EER Air Conditioner | 760000 BTU Efficient 9.7 EER AC | Warehouse | Cooling Unitary | ROB | ton | 129,435 | 4.9% | 1.3 | 15 | \$6,231 | 35% | 0.7 |
| PPL | 135-240k min 12 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Warehouse | Cooling Unitary | Early | ton | 31,499 | 18% | 1.2 | 15 | \$18,135 | 35% | 0.2 |
| PPL | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Warehouse | Cooling Unitary | New | ton | 28,654 | 10.0% | 0.6 | 15 | \$1,948 | 35% | 1.0 |
| PPL | 135-240k min 12 EER Air Conditioner | 187000 BTU Efficient 10.8 EER AC | Warehouse | Cooling Unitary | ROB | ton | 28,654 | 10.0% | 0.6 | 15 | \$1,948 | 35% | 1.0 |
| PPL | 240k-760k min 11 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Warehouse | Cooling Unitary | Early | ton | 84,076 | 9.0% | 1.6 | 15 | \$44,809 | 35% | 0.1 |
| PPL | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Warehouse | Cooling Unitary | New | ton | 84,286 | 9.3% | 1.6 | 15 | \$4,813 | 35% | 1.1 |
| PPL | 240k-760k min 11 EER Air Conditioner | 500000 BTU Efficient 9.8 EER AC | Warehouse | Cooling Unitary | ROB | ton | 84,286 | 9.3% | 1.6 | 15 | \$4,813 | 35% | 1.1 |
| PPL | 65k-135k BTU/hr 12 EER Air Conditioner | Existing efficiency Unitary HVACs in Pennsylvania | Warehouse | Cooling Unitary | Early | ton | 18,536 | 17% | 0.6 | 15 | \$10,946 | 35% | 0.2 |
| PPL | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Warehouse | Cooling Unitary | New | ton | 16,520 | 6.7% | 0.2 | 15 | \$1,392 | 35% | 0.5 |
| PPL | 65k-135k BTU/hr 12 EER Air Conditioner | 112000 BTU Efficient 11 EER AC | Warehouse | Cooling Unitary | ROB | ton | 16,520 | 6.7% | 0.2 | 15 | \$1,392 | 35% | 0.5 |
| PPL | Adding reflective roof treatment | Std color roof | Warehouse | Cooling Unitary | Existing | building | 21,834 | 7.0% | 0.07 | 6 | \$20,704 | 82% | 0.0 |
| PPL | Adding reflective roof treatment | Std color roof | Warehouse | Cooling Unitary | New | building | 21,834 | 7.0% | 0.07 | 6 | \$20,704 | 82% | 0.0 |
| PPL | Adding window shade film | No shade film | Warehouse | Cooling Unitary | Existing | building | 21,834 | 1.3% | 0.4 | 10 | \$266 | 12% | 1.1 |
| PPL | Adding window shade film | No shade film | Warehouse | Cooling Unitary | New | building | 21,834 | 1.3% | 0.4 | 10 | \$266 | 13% | 1.1 |
| PPL | Adding window shade screen | No shade screen | Warehouse | Cooling Unitary | Existing | building | 21,834 | 1.1% | 0.01 | 10 | \$103 | 12% | 0.9 |
| PPL | Adding window shade screen | No shade screen | Warehouse | Cooling Unitary | New | building | 21,834 | 1.1% | 0.01 | 10 | \$103 | 13% | 0.9 |
| PPL | Automated control system | Manual Controls | Warehouse | Cooling Unitary | Existing | building | 21,834 | 17% | 0.2 | 15 | \$23,903 | 51% | 0.1 |
| PPL | Automated control system | Manual Controls | Warehouse | Cooling Unitary | New | building | 21,834 | 17% | 0.2 | 15 | \$23,903 | 94% | 0.1 |
| PPL | Ceiling Insualtions (Going upto R 20) | Existing Ceiling Insulation is Pennsylvania for all end uses mentioned | Warehouse | Cooling Unitary | Existing | building | 21,834 | 5.9% | 0.06 | 15 | \$27,901 | 71% | 0.0 |
| PPL | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Warehouse | Cooling Unitary | New | building | 21,834 | 3.7% | 0.04 | 15 | \$26,520 | 94% | 0.0 |
| PPL | Duct Insulation, Add R8 | No Insulation | Warehouse | Cooling Unitary | Existing | building | 21,834 | 1.4% | 0.04 | 15 | \$173 | 20% | 1.1 |
| PPL | Duct Insulation, Add R8 | No Insulation | Warehouse | Cooling Unitary | New | building | 21,834 | 1.4% | 0.04 | 15 | \$173 | 10% | 1.1 |
| PPL | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Warehouse | Cooling Unitary | Existing | building | 11,932 | 13% | 0.1 | 1 | \$114 | 73% | 0.8 |
| PPL | DX Coil Cleaning | Base DX Packaged System, EER=10.3, 10 tons | Warehouse | Cooling Unitary | New | building | 11,932 | 13% | 0.1 | 1 | \$114 | 73% | 0.8 |
| PPL | ECM Motors for split systems | Std Shaded Pole Motor | Warehouse | Cooling Unitary | New | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 35% | 2.6 |
| PPL | ECM Motors for split systems | Std Shaded Pole Motor | Warehouse | Cooling Unitary | ROB | measure | 15,589 | 9.0% | 0.9 | 15 | \$535 | 35% | 2.6 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Warehouse | Cooling Unitary | Existing | building | 21,834 | 7.1% | 0.07 | 15 | \$96,850 | 25% | 0.0 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Warehouse | Cooling Unitary | New | building | 21,834 | 7.1% | 0.07 | 15 | \$96,850 | 35% | 0.0 |
| PPL | Hi Eff HVAC System Design | No HVAC Design | Warehouse | Cooling Unitary | New | building | 21,834 | 12% | 0.1 | 10 | \$10,477 | 51% | 0.1 |
| PPL | HVAC Diagnostic/Air Conditioner Tune Up | <65000 BTU Std. Efficiency AC w/out Tune Up | Warehouse | Cooling Unitary | Existing | building | 21,834 | 5.0% | 0.05 | 5 | \$225 | 59% | 1.1 |
| PPL | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Warehouse | Cooling Unitary | Existing | building | 21,834 | 1.1% | 0.01 | 10 | \$45,236 | 86% | 0.0 |
| PPL | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Warehouse | Cooling Unitary | New | building | 21,834 | 1.1% | 0.01 | 10 | \$45,236 | 86% | 0.0 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Existing Eff) | Warehouse | Cooling Unitary | Existing | building | 21,834 | 2.0% | 0.02 | 11 | \$286 | 49% | 0.7 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Warehouse | Cooling Unitary | New | building | 21,834 | 1.7% | 0.02 | 11 | \$146 | 49% | 1.1 |
| PPL | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Warehouse | Cooling Unitary | Early | unit | 3,238 | 19% | 0.07 | 15 | \$849 | 80% | 0.5 |
| PPL | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Warehouse | Cooling Unitary | New | unit | 3,271 | 20% | 0.07 | 15 | \$356 | 80% | 1.2 |
| PPL | PTAC (12 EER/10,000 BTU) | Existing Std. Efficiency PTAC in PA | Warehouse | Cooling Unitary | ROB | unit | 3,271 | 20% | 0.07 | 15 | \$356 | 80% | 1.2 |
| PPL | Re-Commissioning (Existing Construction) | No Re-Commissioning | Warehouse | Cooling Unitary | Existing | building | 21,834 | 16% | 0.2 | 5 | \$8,619 | 86% | 0.1 |
| PPL | Room AC (w/ louvered sides) | Existing efficiency Room AC in Pennsylvania (2000 Federal Standards) | Warehouse | Cooling Unitary | Early | ton | 2,384 | 13% | 0.1 | 9 | \$348 | 78% | 0.5 |
| PPL | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Warehouse | Cooling Unitary | New | ton | 2,161 | 4.5% | 0.03 | 9 | \$17 | 78% | 2.8 |
| PPL | Room AC (w/ louvered sides) | Std Room AC (Code Min. Fedral Standards) | Warehouse | Cooling Unitary | ROB | ton | 2,161 | 4.5% | 0.03 | 9 | \$17 | 78% | 2.8 |
| PPL | Wall Insualtions (Going upto R 21) | Existing Wall Insulation is Pennsylvania for all end uses mentioned | Warehouse | Cooling Unitary | Existing | building | 21,834 | 19% | 0.2 | 15 | \$6,551 | 26% | 0.4 |
| PPL | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Warehouse | Cooling Unitary | New | building | 21,834 | 0.6% | 0.01 | 15 | \$5,025 | 94% | 0.0 |
| PPL | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Warehouse | Ext. Lighting | Early | Fixture | 958 | 62% | 0.09 | 13 | \$320 | 85% | 1.1 |
| PPL | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Warehouse | Ext. Lighting | New | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.5 |
| PPL | Incandescent to HID (Outdoor) | One 250W Exterior Incandescent Fixture | Warehouse | Ext. Lighting | ROB | Fixture | 958 | 62% | 0.09 | 13 | \$143 | 85% | 2.5 |
| PPL | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Warehouse | Ext. Lighting | Early | Fixture | 958 | 34% | 0.04 | 13 | \$1,085 | 0% | 0.2 |
| PPL | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Warehouse | Ext. Lighting | New | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| PPL | Induction Street Lamps (Outdoor) | One 250W Exterior Incandescent Fixture | Warehouse | Ext. Lighting | ROB | Fixture | 958 | 34% | 0.04 | 13 | \$908 | 0% | 0.2 |
| PPL | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Warehouse | Ext. Lighting | Early | Letter | 165 | 88% | 0.02 | 15 | \$330 | 48% | 0.3 |
| PPL | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Warehouse | Ext. Lighting | Early | Letter | 130 | 85% | 0.02 | 15 | \$330 | 48% | 0.2 |
| PPL | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Warehouse | Ext. Lighting | New | Letter | 165 | 88% | 0.02 | 15 | \$35 | 48% | 2.8 |
| PPL | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Warehouse | Ext. Lighting | New | Letter | 130 | 85% | 0.02 | 15 | \$35 | 48% | 2.1 |
| PPL | LED or Equivalent Sign Lighting | One Neon Letter, 2' in height | Warehouse | Ext. Lighting | ROB | Letter | 165 | 88% | 0.02 | 15 | \$35 | 48% | 2.8 |
| PPL | LED or Equivalent Sign Lighting | One Argon-Mercury Letter, 2' in height | Warehouse | Ext. Lighting | ROB | Letter | 130 | 85% | 0.02 | 15 | \$35 | 48% | 2.1 |
| PPL | Photocell Controls (Outdoor) | Lighting w/ No Controls | Warehouse | Ext. Lighting | Existing | building | 542 | 28% | 0.3 | 8 | \$3,718 | 88% | 0.0 |
| PPL | Photocell Controls (Outdoor) | Lighting w/ No Controls | Warehouse | Ext. Lighting | New | building | 542 | 28% | 0.3 | 8 | \$3,718 | 0% | 0.0 |
| PPL | Adding reflective roof treatment | Std color roof | Warehouse | Heat Pump | Existing | building | 2,228 | 6.9% | 0.07 | 6 | \$20,704 | 82% | 0.0 |
| PPL | Adding reflective roof treatment | Std color roof | Warehouse | Heat Pump | New | building | 2,228 | 6.9% | 0.07 | 6 | \$20,704 | 82% | 0.0 |
| PPL | Adding window shade film | No shade film | Warehouse | Heat Pump | Existing | building | 2,228 | 3.9% | 0.4 | 10 | \$27 | 12% | 8.5 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|---|-----------|-------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Adding window shade film | No shade film | Warehouse | Heat Pump | New | building | 2,228 | 3.9% | 0.4 | 10 | \$27 | 12% | 8.5 |
| PPL | Adding window shade screen | No shade screen | Warehouse | Heat Pump | Existing | building | 2,228 | 0.3% | 0.01 | 10 | \$10 | 12% | 1.3 |
| PPL | Adding window shade screen | No shade screen | Warehouse | Heat Pump | New | building | 2,228 | 0.3% | 0.01 | 10 | \$10 | 12% | 1.3 |
| PPL | Automated control system | Manual Controls | Warehouse | Heat Pump | Existing | building | 2,228 | 17% | 0.2 | 15 | \$2,439 | 51% | 0.1 |
| PPL | Automated control system | Manual Controls | Warehouse | Heat Pump | New | building | 2,228 | 17% | 0.2 | 15 | \$2,439 | 94% | 0.1 |
| PPL | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Warehouse | Heat Pump | Existing | building | 2,228 | 5.9% | 0.06 | 15 | \$27,901 | 71% | 0.0 |
| PPL | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Warehouse | Heat Pump | New | building | 2,228 | 3.7% | 0.04 | 15 | \$26,520 | 94% | 0.0 |
| PPL | Duct Insulation, Add R8 | No Insulation | Warehouse | Heat Pump | Existing | building | 2,228 | 4.0% | 0.04 | 15 | \$18 | 12% | 4.3 |
| PPL | Duct Insulation, Add R8 | No Insulation | Warehouse | Heat Pump | New | building | 2,228 | 4.0% | 0.04 | 15 | \$18 | 6% | 4.3 |
| PPL | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Warehouse | Heat Pump | Early | heat pump | 2,916 | 14% | 0.04 | 15 | \$4,070 | 83% | 0.1 |
| PPL | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Warehouse | Heat Pump | New | heat pump | 2,712 | 7.5% | 0.02 | 15 | \$1,097 | 83% | 0.1 |
| PPL | Ductless Heat Pump | <65000 BTU Std. Ducted Heat Pump | Warehouse | Heat Pump | ROB | heat pump | 2,712 | 7.5% | 0.02 | 15 | \$1,097 | 83% | 0.1 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Warehouse | Heat Pump | Existing | building | 2,228 | 7.0% | 0.07 | 15 | \$9,882 | 25% | 0.0 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Warehouse | Heat Pump | New | building | 2,228 | 7.0% | 0.07 | 15 | \$9,882 | 35% | 0.0 |
| PPL | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Warehouse | Heat Pump | Early | heat pump | 31,299 | 22% | 0.6 | 15 | \$91,117 | 19% | 0.0 |
| PPL | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Warehouse | Heat Pump | New | heat pump | 29,576 | 17% | 0.4 | 15 | \$33,927 | 19% | 0.1 |
| PPL | Ground Source Heat Pump (Closed Loop) | Air Source Heat Pump of Similar Size | Warehouse | Heat Pump | ROB | heat pump | 29,576 | 17% | 0.4 | 15 | \$33,927 | 19% | 0.1 |
| PPL | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Warehouse | Heat Pump | Early | heat pump | 31,299 | 22% | 0.6 | 15 | \$58,356 | 19% | 0.1 |
| PPL | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Warehouse | Heat Pump | New | heat pump | 29,576 | 17% | 0.4 | 15 | \$1,167 | 19% | 2.6 |
| PPL | Ground Source Heat Pump (Open Loop) | Air Source Heat Pump of Similar Size | Warehouse | Heat Pump | ROB | heat pump | 29,576 | 17% | 0.4 | 15 | \$1,167 | 19% | 2.6 |
| PPL | Hi Eff HVAC System Design | No HVAC Design | Warehouse | Heat Pump | New | building | 2,228 | 12% | 0.1 | 10 | \$129,743 | 51% | 0.0 |
| PPL | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Warehouse | Heat Pump | Early | heat pump | 7,775 | 19% | 0.1 | 12 | \$4,298 | 81% | 0.2 |
| PPL | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Warehouse | Heat Pump | Early | heat pump | 7,775 | 24% | 0.2 | 12 | \$5,883 | 81% | 0.2 |
| PPL | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Warehouse | Heat Pump | New | heat pump | 7,232 | 13% | 0.08 | 12 | \$852 | 81% | 0.5 |
| PPL | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Warehouse | Heat Pump | New | heat pump | 7,232 | 18% | 0.1 | 12 | \$2,437 | 81% | 0.3 |
| PPL | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Warehouse | Heat Pump | ROB | heat pump | 7,232 | 13% | 0.08 | 12 | \$852 | 81% | 0.5 |
| PPL | High Efficiency Air Source Heat Pump (12 EER, 3.6 COP) | <65000 BTU Std. Efficiency Heat Pump | Warehouse | Heat Pump | ROB | heat pump | 7,232 | 18% | 0.1 | 12 | \$2,437 | 81% | 0.3 |
| PPL | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Warehouse | Heat Pump | Existing | building | 2,228 | 1.1% | 0.01 | 10 | \$40,275 | 81% | 0.0 |
| PPL | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Warehouse | Heat Pump | New | building | 2,228 | 1.1% | 0.01 | 10 | \$40,275 | 81% | 0.0 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Warehouse | Heat Pump | Existing | building | 2,228 | 2.4% | 0.02 | 11 | \$286 | 49% | 0.1 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Warehouse | Heat Pump | New | building | 2,228 | 2.1% | 0.02 | 11 | \$146 | 49% | 0.2 |
| PPL | Re-Commissioning (Existing Construction) | No Re-Commissioning | Warehouse | Heat Pump | Existing | building | 2,228 | 16% | 0.2 | 5 | \$8,619 | 86% | 0.0 |
| PPL | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Warehouse | Heat Pump | New | measure | 290,645 | 2.0% | 0.7 | 13 | \$36,589 | 43% | 0.1 |
| PPL | Variable Refrigerant Flow Heat Pump | Std. Heat Pump | Warehouse | Heat Pump | ROB | measure | 290,645 | 2.0% | 0.7 | 13 | \$36,589 | 43% | 0.1 |
| PPL | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Warehouse | Heat Pump | Existing | building | 2,228 | 19% | 0.2 | 15 | \$6,551 | 26% | 0.1 |
| PPL | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Warehouse | Heat Pump | New | building | 2,228 | 0.6% | 0.01 | 15 | \$5,025 | 94% | 0.0 |
| PPL | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Warehouse | Heat Pump | Early | heat pump | 11,843 | 27% | 0.3 | 15 | \$35,347 | 28% | 0.1 |
| PPL | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Warehouse | Heat Pump | New | heat pump | 10,864 | 21% | 0.2 | 15 | \$15,739 | 28% | 0.1 |
| PPL | Water Source Heat Pump (4 ton) | Air Source Heat Pump of Similar Size | Warehouse | Heat Pump | ROB | heat pump | 10,864 | 21% | 0.2 | 15 | \$15,739 | 28% | 0.1 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | Early | Fixture | 536 | 9.6% | 0.01 | 13 | \$875 | 39% | 0.0 |
| PPL | 120 - 175W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Warehouse | High Bay Lighting | Early | Fixture | 535 | 9.5% | 0.01 | 13 | \$875 | 28% | 0.0 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Warehouse | High Bay Lighting | Early | Fixture | 827 | 41% | 0.08 | 13 | \$875 | 36% | 0.3 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | New | Fixture | 407 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Warehouse | High Bay Lighting | New | Fixture | 379 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Warehouse | High Bay Lighting | New | Fixture | 628 | 41% | 0.06 | 13 | \$397 | 36% | 0.4 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 150W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 536 | 9.6% | 0.01 | 13 | \$372 | 39% | 0.1 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 6-Lamp T8 Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 499 | 2.9% | 0.00 | 13 | \$338 | 28% | 0.0 |
| PPL | 120 - 175W Pulse Start Metal Halide | One 250W Mercury Vapor Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 827 | 41% | 0.08 | 13 | \$397 | 36% | 0.6 |
| PPL | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | Early | Fixture | 1,040 | 19% | 0.05 | 13 | \$877 | 38% | 0.1 |
| PPL | 120 - 320W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Warehouse | High Bay Lighting | Early | Fixture | 1,053 | 20% | 0.05 | 13 | \$877 | 38% | 0.2 |
| PPL | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | Early | Fixture | 3,064 | 73% | 0.5 | 13 | \$877 | 38% | 1.6 |
| PPL | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | New | Fixture | 791 | 19% | 0.03 | 13 | \$372 | 38% | 0.3 |
| PPL | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | New | Fixture | 2,329 | 73% | 0.4 | 13 | \$383 | 38% | 2.8 |
| PPL | 120 - 320W Ceramic Metal Halide | One 310W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 1,040 | 19% | 0.05 | 13 | \$372 | 38% | 0.3 |
| PPL | 120 - 320W Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 3,064 | 73% | 0.5 | 13 | \$383 | 38% | 3.7 |
| PPL | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | Early | Fixture | 1,040 | 25% | 0.06 | 13 | \$580 | 29% | 0.3 |
| PPL | 175 - 320W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Warehouse | High Bay Lighting | Early | Fixture | 1,021 | 23% | 0.05 | 13 | \$580 | 28% | 0.3 |
| PPL | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | Early | Fixture | 3,064 | 74% | 0.5 | 13 | \$580 | 36% | 2.5 |
| PPL | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | New | Fixture | 791 | 25% | 0.04 | 13 | \$75 | 29% | 1.7 |
| PPL | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | New | Fixture | 2,329 | 74% | 0.4 | 13 | \$86 | 36% | 13.0 |
| PPL | 175 - 320W Pulse Start Metal Halide | One 310W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 1,040 | 25% | 0.06 | 13 | \$75 | 29% | 2.2 |
| PPL | 175 - 320W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 3,064 | 74% | 0.5 | 13 | \$86 | 36% | 17.1 |
| PPL | 20 - 100W Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Warehouse | High Bay Lighting | Early | Fixture | 271 | 0.2% | 0.00 | 13 | \$861 | 38% | 0.0 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|---|-----------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Warehouse | High Bay Lighting | Early | Fixture | 584 | 54% | 0.07 | 13 | \$861 | 38% | 0.2 |
| PPL | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Warehouse | High Bay Lighting | New | Fixture | 444 | 54% | 0.05 | 13 | \$382 | 38% | 0.4 |
| PPL | 20 - 100W Ceramic Metal Halide | One 175W Mercury Vapor Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 584 | 54% | 0.07 | 13 | \$382 | 38% | 0.5 |
| PPL | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | Early | Fixture | 1,325 | 18% | 0.05 | 13 | \$512 | 25% | 0.3 |
| PPL | 320 - 400W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Warehouse | High Bay Lighting | Early | Fixture | 1,386 | 22% | 0.07 | 13 | \$512 | 28% | 0.4 |
| PPL | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | Early | Fixture | 3,064 | 65% | 0.4 | 13 | \$512 | 36% | 2.5 |
| PPL | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | New | Fixture | 1,007 | 18% | 0.04 | 13 | \$16 | 25% | 7.3 |
| PPL | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | New | Fixture | 2,329 | 65% | 0.3 | 13 | \$18 | 36% | 52.7 |
| PPL | 320 - 400W Pulse Start Metal Halide | One 400W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 1,325 | 18% | 0.05 | 13 | \$16 | 25% | 9.6 |
| PPL | 320 - 400W Pulse Start Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 3,064 | 65% | 0.4 | 13 | \$18 | 36% | 69.4 |
| PPL | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | Early | Fixture | 1,325 | 1.5% | 0.00 | 13 | \$582 | 19% | 0.0 |
| PPL | 350W+ Ceramic Metal Halide | Weighted Existing Fluorescent Fixtures | Warehouse | High Bay Lighting | Early | Fixture | 1,364 | 4.3% | 0.01 | 13 | \$582 | 19% | 0.1 |
| PPL | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | Early | Fixture | 3,064 | 57% | 0.4 | 13 | \$582 | 19% | 1.9 |
| PPL | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | New | Fixture | 1,007 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| PPL | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | New | Fixture | 2,329 | 57% | 0.3 | 13 | \$88 | 19% | 9.8 |
| PPL | 350W+ Ceramic Metal Halide | One 400W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 1,325 | 1.5% | 0.00 | 13 | \$86 | 19% | 0.1 |
| PPL | 350W+ Ceramic Metal Halide | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 3,064 | 57% | 0.4 | 13 | \$88 | 19% | 12.8 |
| PPL | 4' T5 HO 2 Lamp Fixture | Equipment 5: One 165W Induction Fixture | Warehouse | High Bay Lighting | Early | Fixture | 563 | 29% | 0.03 | 13 | \$517 | 71% | 0.2 |
| PPL | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | Early | Fixture | 471 | 15% | 0.01 | 13 | \$517 | 95% | 0.1 |
| PPL | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Warehouse | High Bay Lighting | Early | Fixture | 699 | 43% | 0.05 | 13 | \$517 | 95% | 0.3 |
| PPL | 4' T5 HO 2 Lamp Fixture | One 150W Metal Halide Fixture | Warehouse | High Bay Lighting | Early | Fixture | 648 | 38% | 0.04 | 13 | \$517 | 95% | 0.3 |
| PPL | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | New | Fixture | 358 | 15% | 0.01 | 13 | \$25 | 95% | 1.3 |
| PPL | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Warehouse | High Bay Lighting | New | Fixture | 531 | 43% | 0.04 | 13 | \$51 | 95% | 2.7 |
| PPL | 4' T5 HO 2 Lamp Fixture | One 100W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 471 | 15% | 0.01 | 13 | \$25 | 95% | 1.7 |
| PPL | 4' T5 HO 2 Lamp Fixture | Equipment 4: One 175W Mercury Vapor Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 699 | 43% | 0.05 | 13 | \$51 | 95% | 3.5 |
| PPL | 4' HPT8 High Bay lamp (28 watt) | Mkt baseline of avg. 33 W lamp | Warehouse | High Bay Lighting | Early | lamp | 77 | 16% | 0.00 | 14 | \$8.7 | 99% | 1.0 |
| PPL | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Warehouse | High Bay Lighting | New | lamp | 46 | 13% | 0.00 | 14 | \$1.6 | 91% | 2.5 |
| PPL | 4' HPT8 High Bay lamp (28 watt) | 32W T8 lamp | Warehouse | High Bay Lighting | ROB | lamp | 74 | 13% | 0.00 | 14 | \$1.6 | 91% | 4.0 |
| PPL | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | Early | Fixture | 3,135 | 23% | 0.2 | 13 | \$639 | 5% | 0.7 |
| PPL | 400 - 750W Pulse Start Metal Halide | Weighted Existing Fluorescent Fixtures | Warehouse | High Bay Lighting | Early | Fixture | 2,463 | 1.6% | 0.01 | 13 | \$639 | 28% | 0.0 |
| PPL | 400 - 750W Pulse Start Metal Halide | Two 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | Early | Fixture | 6,128 | 60% | 0.8 | 13 | \$639 | 18% | 3.7 |
| PPL | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | New | Fixture | 2,383 | 23% | 0.1 | 13 | \$96 | 5% | 3.6 |
| PPL | 400 - 750W Pulse Start Metal Halide | One 1000W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 3,135 | 23% | 0.2 | 13 | \$96 | 5% | 4.8 |
| PPL | Auto Off Time Switch | Lighting w/ No Controls | Warehouse | High Bay Lighting | Existing | building | 10,483 | 24% | 0.2 | 8 | \$755 | 13% | 1.2 |
| PPL | Auto Off Time Switch | Lighting w/ No Controls | Warehouse | High Bay Lighting | New | building | 10,483 | 6.9% | 0.07 | 8 | \$755 | 0% | 0.4 |
| PPL | Central Lighting Control System | Lighting w/ No Controls | Warehouse | High Bay Lighting | Existing | building | 10,483 | 38% | 0.4 | 8 | \$755 | 13% | 1.7 |
| PPL | Central Lighting Control System | Lighting w/ No Controls | Warehouse | High Bay Lighting | New | building | 10,483 | 14% | 0.1 | 8 | \$755 | 13% | 0.7 |
| PPL | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Warehouse | High Bay Lighting | New | building | 10,483 | 10% | 0.1 | 15 | \$31,316 | 32% | 0.0 |
| PPL | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Warehouse | High Bay Lighting | New | building | 10,483 | 15% | 0.2 | 15 | \$78,291 | 32% | 0.0 |
| PPL | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Warehouse | High Bay Lighting | New | building | 10,483 | 30% | 0.3 | 15 | \$112,217 | 32% | 0.0 |
| PPL | Indoor Daylight Sensors | Lighting w/ No Controls | Warehouse | High Bay Lighting | Existing | building | 10,483 | 28% | 0.3 | 8 | \$3,718 | 13% | 0.3 |
| PPL | Indoor Daylight Sensors | Lighting w/ No Controls | Warehouse | High Bay Lighting | New | building | 10,483 | 4.1% | 0.04 | 8 | \$3,718 | 0% | 0.0 |
| PPL | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | Early | Fixture | 3,135 | 92% | 0.7 | 13 | \$1,941 | 95% | 1.0 |
| PPL | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | Early | Fixture | 6,128 | 96% | 1.3 | 13 | \$1,941 | 95% | 2.0 |
| PPL | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | New | Fixture | 2,383 | 92% | 0.5 | 13 | \$1,468 | 95% | 1.0 |
| PPL | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | New | Fixture | 4,658 | 96% | 1.0 | 13 | \$1,149 | 95% | 2.5 |
| PPL | Induction High Bay Lighting | One 400W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 3,135 | 92% | 0.7 | 13 | \$1,468 | 95% | 1.3 |
| PPL | Induction High Bay Lighting | One 1000W Mercury Vapor Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 6,128 | 96% | 1.3 | 13 | \$1,149 | 95% | 3.3 |
| PPL | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | Early | Fixture | 1,040 | 67% | 0.2 | 13 | \$985 | 95% | 0.5 |
| PPL | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Warehouse | High Bay Lighting | Early | Fixture | 3,064 | 89% | 0.6 | 13 | \$985 | 95% | 1.8 |
| PPL | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Warehouse | High Bay Lighting | Early | Fixture | 841 | 59% | 0.1 | 13 | \$985 | 95% | 0.3 |
| PPL | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | New | Fixture | 791 | 67% | 0.1 | 13 | \$480 | 95% | 0.7 |
| PPL | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Warehouse | High Bay Lighting | New | Fixture | 2,329 | 89% | 0.5 | 13 | \$491 | 95% | 2.7 |
| PPL | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Warehouse | High Bay Lighting | New | Fixture | 639 | 59% | 0.08 | 13 | \$406 | 95% | 0.6 |
| PPL | LED Overhead High Bay Lighting Fixture | One 365 W High Pressure Sodium Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 1,040 | 67% | 0.2 | 13 | \$480 | 95% | 0.9 |
| PPL | LED Overhead High Bay Lighting Fixture | One 1075 W Mercury Vapor Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 3,064 | 89% | 0.6 | 13 | \$491 | 95% | 3.6 |
| PPL | LED Overhead High Bay Lighting Fixture | One 295 W Metal Halide Fixture | Warehouse | High Bay Lighting | ROB | Fixture | 841 | 59% | 0.1 | 13 | \$406 | 95% | 0.8 |
| PPL | Occupancy Sensor | Lighting w/ No Controls | Warehouse | High Bay Lighting | Existing | building | 10,483 | 24% | 0.2 | 8 | \$1,138 | 12% | 0.8 |
| PPL | Occupancy Sensor | Lighting w/ No Controls | Warehouse | High Bay Lighting | New | building | 10,483 | 6.9% | 0.07 | 8 | \$1,138 | 0% | 0.2 |
| PPL | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Warehouse | High Bay Lighting | Existing | building | 10,483 | 28% | 0.3 | 8 | \$3,718 | 12% | 0.3 |
| PPL | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Warehouse | High Bay Lighting | New | building | 10,483 | 4.0% | 0.04 | 8 | \$3,718 | 0% | 0.0 |
| PPL | Time Clock Control | Lighting w/ No Controls | Warehouse | High Bay Lighting | Existing | building | 10,483 | 28% | 0.3 | 8 | \$755 | 13% | 1.4 |
| PPL | Time Clock Control | Lighting w/ No Controls | Warehouse | High Bay Lighting | New | building | 10,483 | 4.0% | 0.04 | 8 | \$755 | 0% | 0.2 |
| PPL | Auto Off Time Switch | Lighting w/ No Controls | Warehouse | Lin. Fluor. Lighting | Existing | building | 5,353 | 24% | 0.2 | 8 | \$755 | 13% | 0.7 |
| PPL | Auto Off Time Switch | Lighting w/ No Controls | Warehouse | Lin. Fluor. Lighting | New | building | 5,353 | 6.9% | 0.07 | 8 | \$755 | 0% | 0.2 |
| PPL | Central Lighting Control System | Lighting w/ No Controls | Warehouse | Lin. Fluor. Lighting | Existing | building | 5,353 | 38% | 0.4 | 8 | \$755 | 12% | 1.1 |
| PPL | Central Lighting Control System | Lighting w/ No Controls | Warehouse | Lin. Fluor. Lighting | New | building | 5,353 | 14% | 0.1 | 8 | \$755 | 12% | 0.4 |
| PPL | HE Lighting Fixtures/Design 10% better than code (New Construction) | Lighting Meeting Code Required LPD | Warehouse | Lin. Fluor. Lighting | New | building | 5,353 | 10% | 0.1 | 15 | \$31,316 | 32% | 0.0 |
| PPL | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Warehouse | Lin. Fluor. Lighting | New | building | 5,353 | 15% | 0.2 | 15 | \$78,291 | 32% | 0.0 |
| PPL | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Warehouse | Lin. Fluor. Lighting | New | building | 5,353 | 30% | 0.3 | 15 | \$112,217 | 32% | 0.0 |
| PPL | High Efficiency T8 Lighting Replacement (32W) | One 4' 40W T12 w/ Magnetic Ballast | Warehouse | Lin. Fluor. Lighting | Early | Lamp | 155 | 38% | 0.01 | 14 | \$8.3 | 94% | 4.7 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|--|-----------|----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Indoor Daylight Sensors | Lighting w/ No Controls | Warehouse | Lin. Fluor. Lighting | Existing | building | 5,353 | 28% | 0.3 | 8 | \$3,718 | 13% | 0.2 |
| PPL | Indoor Daylight Sensors | Lighting w/ No Controls | Warehouse | Lin. Fluor. Lighting | New | building | 5,353 | 4.1% | 0.04 | 8 | \$3,718 | 0% | 0.0 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | Early | Lamp | 68 | 19% | 0.00 | 15 | \$36 | 94% | 0.3 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 40W T12 Lamp, Magnetic Ballast | Warehouse | Lin. Fluor. Lighting | Early | Lamp | 149 | 63% | 0.02 | 15 | \$36 | 94% | 1.9 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | Early | Lamp | 84 | 34% | 0.01 | 15 | \$36 | 94% | 0.6 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | Early | Lamp | 81 | 32% | 0.01 | 15 | \$36 | 94% | 0.5 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | New | Lamp | 52 | 19% | 0.00 | 15 | \$28 | 94% | 0.3 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | New | Lamp | 62 | 32% | 0.00 | 15 | \$29 | 94% | 0.5 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | New | Lamp | 64 | 34% | 0.00 | 15 | \$22 | 94% | 0.7 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | New | Lamp | 62 | 32% | 0.00 | 15 | \$29 | 94% | 0.5 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 28W T8 Lamp, Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | ROB | Lamp | 68 | 19% | 0.00 | 15 | \$28 | 94% | 0.3 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | ROB | Lamp | 81 | 32% | 0.01 | 15 | \$29 | 94% | 0.7 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 28W T5 Lamp, Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | ROB | Lamp | 84 | 34% | 0.01 | 15 | \$22 | 94% | 1.0 |
| PPL | LED Retrofit Linear Fluorescent Lamp | One 32W T8 Lamp, Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | ROB | Lamp | 81 | 32% | 0.01 | 15 | \$29 | 94% | 0.7 |
| PPL | Occupancy Sensor | Lighting w/ No Controls | Warehouse | Lin. Fluor. Lighting | Existing | building | 5,353 | 24% | 0.2 | 8 | \$1,138 | 13% | 0.5 |
| PPL | Occupancy Sensor | Lighting w/ No Controls | Warehouse | Lin. Fluor. Lighting | New | building | 5,353 | 7.0% | 0.07 | 8 | \$1,138 | 0% | 0.1 |
| PPL | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Warehouse | Lin. Fluor. Lighting | Existing | building | 5,353 | 28% | 0.3 | 8 | \$3,718 | 12% | 0.2 |
| PPL | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Warehouse | Lin. Fluor. Lighting | New | building | 5,353 | 4.1% | 0.04 | 8 | \$3,718 | 0% | 0.0 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 40W T12 w/ Magnetic Ballast | Warehouse | Lin. Fluor. Lighting | Early | Lamp | 155 | 54% | 0.02 | 14 | \$9.1 | 94% | 6.1 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | Early | Lamp | 99 | 28% | 0.01 | 14 | \$9.1 | 24% | 2.1 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | Early | Lamp | 96 | 26% | 0.00 | 14 | \$9.1 | 94% | 1.8 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | New | Lamp | 73 | 26% | 0.00 | 14 | \$2.5 | 94% | 5.0 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | New | Lamp | 73 | 26% | 0.00 | 14 | \$2.5 | 94% | 5.0 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | New | Lamp | 75 | 28% | 0.00 | 14 | \$2.5 | 24% | 5.6 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | New | Lamp | 73 | 26% | 0.00 | 14 | \$2.5 | 94% | 5.0 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | ROB | Lamp | 96 | 26% | 0.00 | 14 | \$2.5 | 94% | 6.6 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | ROB | Lamp | 96 | 26% | 0.00 | 14 | \$2.5 | 94% | 6.6 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 28W T5 w/ Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | ROB | Lamp | 99 | 28% | 0.01 | 14 | \$2.5 | 24% | 7.4 |
| PPL | Premium Efficiency T8 Lighting Replacements (28W w/ LBF) | One 4' 32W T8 w/ Normal Ballast Factor | Warehouse | Lin. Fluor. Lighting | ROB | Lamp | 96 | 26% | 0.00 | 14 | \$2.5 | 94% | 6.6 |
| PPL | T8 Lamp (any length) Electronic Ballast | Standard T12 lamp (any length) | Warehouse | Lin. Fluor. Lighting | Early | Lamp | 182 | 42% | 0.01 | 14 | \$15 | 94% | 3.4 |
| PPL | Time Clock Control | Lighting w/ No Controls | Warehouse | Lin. Fluor. Lighting | Existing | building | 5,353 | 28% | 0.3 | 8 | \$755 | 14% | 0.8 |
| PPL | Time Clock Control | Lighting w/ No Controls | Warehouse | Lin. Fluor. Lighting | New | building | 5,353 | 4.1% | 0.04 | 8 | \$755 | 0% | 0.1 |
| PPL | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | Early | motor | 2,728 | 3.6% | 0.01 | 15 | \$374 | 76% | 0.2 |
| PPL | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | Early | motor | 2,728 | 3.6% | 0.01 | 15 | \$374 | 76% | 0.2 |
| PPL | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | Early | motor | 2,728 | 3.6% | 0.01 | 15 | \$374 | 76% | 0.2 |
| PPL | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | Early | motor | 2,728 | 3.6% | 0.01 | 15 | \$374 | 76% | 0.2 |
| PPL | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | New | motor | 2,644 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| PPL | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | New | motor | 2,644 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| PPL | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | New | motor | 2,644 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| PPL | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | New | motor | 2,644 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| PPL | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | ROB | motor | 2,644 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| PPL | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | ROB | motor | 2,644 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| PPL | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | ROB | motor | 2,644 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| PPL | 1 HP Motor, Ultra-PE | 1 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | ROB | motor | 2,644 | 0.6% | 0.00 | 15 | \$52 | 76% | 0.2 |
| PPL | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | Early | motor | 4,533 | 3.1% | 0.02 | 15 | \$402 | 76% | 0.2 |
| PPL | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | Early | motor | 4,533 | 3.1% | 0.02 | 15 | \$402 | 76% | 0.2 |
| PPL | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | Early | motor | 4,533 | 3.1% | 0.02 | 15 | \$402 | 76% | 0.2 |
| PPL | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | Early | motor | 4,533 | 3.1% | 0.02 | 15 | \$402 | 76% | 0.2 |
| PPL | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | New | motor | 4,419 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.3 |
| PPL | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | New | motor | 4,419 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.3 |
| PPL | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | New | motor | 4,419 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.3 |
| PPL | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | New | motor | 4,419 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.3 |
| PPL | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | ROB | motor | 4,419 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.3 |
| PPL | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | ROB | motor | 4,419 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.3 |
| PPL | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | ROB | motor | 4,419 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.3 |
| PPL | 1.5 HP Motor, Ultra-PE | 1.5 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | ROB | motor | 4,419 | 0.6% | 0.00 | 15 | \$60 | 76% | 0.3 |
| PPL | 10 HP Motor, Ultra-PE | 10 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | Early | motor | 25,181 | 2.6% | 0.09 | 15 | \$962 | 85% | 0.4 |
| PPL | 10 HP Motor, Ultra-PE | 10 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | Early | motor | 25,181 | 2.6% | 0.09 | 15 | \$962 | 85% | 0.4 |
| PPL | 10 HP Motor, Ultra-PE | 10 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | Early | motor | 25,181 | 2.7% | 0.09 | 15 | \$962 | 85% | 0.4 |
| PPL | 10 HP Motor, Ultra-PE | 10 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | Early | motor | 25,181 | 2.7% | 0.10 | 15 | \$962 | 85% | 0.5 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|--|-----------|---------------------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | ROB | motor | 21,003 | 0.5% | 0.01 | 15 | \$123 | 83% | 0.6 |
| PPL | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | ROB | motor | 21,003 | 0.6% | 0.01 | 15 | \$123 | 83% | 0.6 |
| PPL | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | ROB | motor | 21,003 | 0.6% | 0.01 | 15 | \$123 | 83% | 0.6 |
| PPL | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | ROB | motor | 21,003 | 0.6% | 0.02 | 15 | \$123 | 83% | 0.6 |
| PPL | 7.5 HP Motor, Ultra-PE | 7.5 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | ROB | motor | 21,003 | 0.6% | 0.01 | 15 | \$123 | 83% | 0.6 |
| PPL | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | Early | motor | 179,979 | 1.3% | 0.3 | 15 | \$3,955 | 61% | 0.4 |
| PPL | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | Early | motor | 179,979 | 1.3% | 0.3 | 15 | \$3,955 | 61% | 0.4 |
| PPL | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | Early | motor | 179,979 | 1.3% | 0.3 | 15 | \$3,955 | 61% | 0.4 |
| PPL | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | Early | motor | 179,979 | 1.3% | 0.4 | 15 | \$3,955 | 61% | 0.4 |
| PPL | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | Early | motor | 179,979 | 1.4% | 0.3 | 15 | \$3,955 | 61% | 0.4 |
| PPL | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | New | motor | 178,495 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.1 |
| PPL | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | New | motor | 178,495 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.1 |
| PPL | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | New | motor | 178,495 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.1 |
| PPL | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | New | motor | 178,495 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.2 |
| PPL | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | New | motor | 178,495 | 0.6% | 0.1 | 15 | \$554 | 61% | 1.1 |
| PPL | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | ROB | motor | 178,495 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.1 |
| PPL | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | ROB | motor | 178,495 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.1 |
| PPL | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | ROB | motor | 178,495 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.1 |
| PPL | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | ROB | motor | 178,495 | 0.5% | 0.1 | 15 | \$554 | 61% | 1.1 |
| PPL | 75 HP Motor, Ultra-PE | 75 HP motor w/ baseline efficiency (4 pole) | Warehouse | Motors | ROB | motor | 178,495 | 0.6% | 0.1 | 15 | \$554 | 61% | 1.1 |
| PPL | ASD HVAC Fan | Std. HVAC Fan | Warehouse | Motors | New | measure | 2,003 | 9.1% | 0.02 | 15 | \$3,702 | 85% | 0.0 |
| PPL | ASD HVAC Fan | Std. HVAC Fan | Warehouse | Motors | ROB | measure | 2,003 | 9.1% | 0.02 | 15 | \$3,702 | 85% | 0.0 |
| PPL | Downsizing motor during retrofit | Larger hp standard motor | Warehouse | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 21.2 |
| PPL | Downsizing motor during retrofit | Larger hp standard motor | Warehouse | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 22.0 |
| PPL | Downsizing motor during retrofit | Larger hp standard motor | Warehouse | Motors | New | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 22.0 |
| PPL | Downsizing motor during retrofit | Larger hp standard motor | Warehouse | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 23.3 |
| PPL | Downsizing motor during retrofit | Larger hp standard motor | Warehouse | Motors | New | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 23.4 |
| PPL | Downsizing motor during retrofit | Larger hp standard motor | Warehouse | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 21.4 |
| PPL | Downsizing motor during retrofit | Larger hp standard motor | Warehouse | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 21.9 |
| PPL | Downsizing motor during retrofit | Larger hp standard motor | Warehouse | Motors | ROB | building | 186,404 | 0.8% | 0.4 | 15 | \$50 | 93% | 22.1 |
| PPL | Downsizing motor during retrofit | Larger hp standard motor | Warehouse | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 23.5 |
| PPL | Downsizing motor during retrofit | Larger hp standard motor | Warehouse | Motors | ROB | building | 186,404 | 0.9% | 0.4 | 15 | \$50 | 93% | 23.4 |
| PPL | Escalator Motor Controller | Constant power control | Warehouse | Motors | New | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 67% | 6.0 |
| PPL | Escalator Motor Controller | Constant power control | Warehouse | Motors | ROB | escalator | 53,261 | 34% | 2.1 | 15 | \$1,875 | 67% | 6.0 |
| PPL | Variable Speed Drive Control, 15HP | Existing Motors w/out VFD Drive | Warehouse | Motors | Early | motor | 12,920 | 72% | 1.4 | 15 | \$791 | 86% | 7.9 |
| PPL | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VFD Drive | Warehouse | Motors | New | motor | 12,631 | 72% | 1.3 | 15 | \$731 | 86% | 8.3 |
| PPL | Variable Speed Drive Control, 15HP | Code minimum Motor w/out VFD Drive | Warehouse | Motors | ROB | motor | 12,631 | 72% | 1.3 | 15 | \$731 | 86% | 8.3 |
| PPL | Variable Speed Drive Control, 40HP | Existing Motors w/out VSD Drive | Warehouse | Motors | Early | motor | 97,245 | 71% | 10.1 | 15 | \$4,726 | 86% | 9.8 |
| PPL | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Warehouse | Motors | New | motor | 96,108 | 72% | 10.1 | 15 | \$4,666 | 86% | 9.9 |
| PPL | Variable Speed Drive Control, 40HP | Code minimum Motor w/out VSD Drive | Warehouse | Motors | ROB | motor | 96,108 | 72% | 10.1 | 15 | \$4,666 | 86% | 9.9 |
| PPL | Variable Speed Drive Control, 5HP | Existing Motors w/out VSD Drive | Warehouse | Motors | Early | motor | 37,268 | 70% | 3.8 | 15 | \$2,303 | 86% | 7.6 |
| PPL | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VSD Drive | Warehouse | Motors | New | motor | 36,467 | 72% | 3.8 | 15 | \$2,243 | 86% | 7.8 |
| PPL | Variable Speed Drive Control, 5HP | Code minimum Motor w/out VSD Drive | Warehouse | Motors | ROB | motor | 36,467 | 72% | 3.8 | 15 | \$2,243 | 86% | 7.8 |
| PPL | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Warehouse | Motors | Early | motor | 3,717 | 30% | 0.1 | 15 | \$328 | 13% | 2.2 |
| PPL | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Warehouse | Motors | New | motor | 3,717 | 30% | 0.1 | 15 | \$268 | 13% | 2.7 |
| PPL | Variable Speed Drive on Kitchen Exhaust Fan | Fans w/out VFD Drive | Warehouse | Motors | ROB | motor | 3,717 | 30% | 0.1 | 15 | \$268 | 13% | 2.7 |
| PPL | VFD on Chilled Water Pump | Motor w/out VFD Drive | Warehouse | Motors | Early | motor | 16,452 | 54% | 2.7 | 15 | \$2,903 | 86% | 2.3 |
| PPL | VFD on Chilled Water Pump | Motor w/out VFD Drive | Warehouse | Motors | New | motor | 16,144 | 55% | 2.7 | 15 | \$2,843 | 86% | 2.4 |
| PPL | VFD on Chilled Water Pump | Motor w/out VFD Drive | Warehouse | Motors | ROB | motor | 16,144 | 55% | 2.7 | 15 | \$2,843 | 86% | 2.4 |
| PPL | VFD on Condenser Water Pump | Motor w/out VFD Drive | Warehouse | Motors | Early | motor | 16,379 | 32% | 3.2 | 15 | \$2,903 | 86% | 1.8 |
| PPL | VFD on Condenser Water Pump | Motor w/out VFD Drive | Warehouse | Motors | New | motor | 16,072 | 33% | 3.1 | 15 | \$2,843 | 86% | 1.8 |
| PPL | VFD on Condenser Water Pump | Motor w/out VFD Drive | Warehouse | Motors | ROB | motor | 16,072 | 33% | 3.1 | 15 | \$2,843 | 86% | 1.8 |
| PPL | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Warehouse | Motors | Early | motor | 29,557 | 56% | 0.00 | 15 | \$2,903 | 86% | 3.1 |
| PPL | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Warehouse | Motors | New | motor | 29,004 | 57% | 0.00 | 15 | \$2,843 | 86% | 3.2 |
| PPL | VFD on Hot Water Pump | Code minimum Motor w/out VFD Drive | Warehouse | Motors | ROB | motor | 29,004 | 57% | 0.00 | 15 | \$2,843 | 86% | 3.2 |
| PPL | VFD on HVAC Fan | Motor w/out VFD | Warehouse | Motors | Early | motor | 16,452 | 70% | 3.4 | 15 | \$2,903 | 86% | 3.1 |
| PPL | VFD on HVAC Fan | Motor w/out VFD | Warehouse | Motors | New | motor | 16,144 | 72% | 3.3 | 15 | \$2,843 | 86% | 3.1 |
| PPL | VFD on HVAC Fan | Motor w/out VFD | Warehouse | Motors | ROB | motor | 16,144 | 72% | 3.3 | 15 | \$2,843 | 86% | 3.1 |
| PPL | Elevators | Std. Eff Elevator | Warehouse | Other | ROB | measure | 89,016 | 0.3% | 0.00 | 15 | \$86 | 63% | 1.7 |
| PPL | Variable Speed Drives on Process Equipment | Constant speed control | Warehouse | Other | New | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 9% | 10.4 |
| PPL | Variable Speed Drives on Process Equipment | Constant speed control | Warehouse | Other | ROB | building | 196,176 | 49% | 16.4 | 10 | \$4,300 | 9% | 10.4 |
| PPL | Auto Off Time Switch | Lighting w/ No Controls | Warehouse | Other Int. Lighting | Existing | building | 4,679 | 24% | 0.2 | 8 | \$755 | 13% | 0.6 |
| PPL | Auto Off Time Switch | Lighting w/ No Controls | Warehouse | Other Int. Lighting | New | building | 4,679 | 7.0% | 0.07 | 8 | \$755 | 0% | 0.2 |
| PPL | Central Lighting Control System | Lighting w/ No Controls | Warehouse | Other Int. Lighting | Existing | building | 4,679 | 38% | 0.4 | 8 | \$755 | 13% | 1.0 |
| PPL | Central Lighting Control System | Lighting w/ No Controls | Warehouse | Other Int. Lighting | New | building | 4,679 | 14% | 0.1 | 8 | \$755 | 13% | 0.4 |
| PPL | Cold Cathode Screw-In Bulb | 40W Incandescent Bulb | Warehouse | Other Int. Lighting | Early | lamp | 157 | 87% | 0.03 | 10 | \$33 | 14% | 2.1 |
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Warehouse | Other Int. Lighting | Early | lamp | 112 | 81% | 0.02 | 10 | \$33 | 11% | 1.4 |
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Warehouse | Other Int. Lighting | New | lamp | 85 | 81% | 0.02 | 10 | \$24 | 14% | 1.5 |
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Warehouse | Other Int. Lighting | New | lamp | 85 | 81% | 0.02 | 10 | \$25 | 14% | 1.4 |
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Warehouse | Other Int. Lighting | New | lamp | 85 | 81% | 0.02 | 10 | \$24 | 11% | 1.4 |
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Warehouse | Other Int. Lighting | ROB | lamp | 112 | 81% | 0.02 | 10 | \$24 | 14% | 2.0 |
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Warehouse | Other Int. Lighting | ROB | lamp | 112 | 81% | 0.02 | 10 | \$25 | 14% | 1.8 |
| PPL | Cold Cathode Screw-In Bulb | 43W Incandescent Bulb | Warehouse | Other Int. Lighting | ROB | lamp | 112 | 81% | 0.02 | 10 | \$24 | 11% | 1.9 |
| PPL | Compact Fluorescent Lamp - Hardwire (13W) | One 60W Incandescent Bulb | Warehouse | Other Int. Lighting | Early | lamp | 157 | 75% | 0.03 | 4 | \$73 | 39% | 0.4 |
| PPL | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Warehouse | Other Int. Lighting | New | lamp | 171 | 65% | 0.02 | 13 | \$29 | 46% | 2.5 |
| PPL | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Warehouse | Other Int. Lighting | New | lamp | 85 | 65% | 0.01 | 4 | \$29 | 46% | 0.4 |
| PPL | Compact Fluorescent Lamp - Hardwire (13W) | Two 43W Bulbs (EISA Halogen code minimum) | Warehouse | Other Int. Lighting | ROB | lamp | 225 | 65% | 0.03 | 13 | \$29 | 39% | 3.3 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|---|-----------|---------------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Compact Fluorescent Lamp - Hardwire (13W) | One 43W Incandescent Bulb | Warehouse | Other Int. Lighting | ROB | lamp | 112 | 65% | 0.02 | 4 | \$29 | 39% | 0.6 |
| PPL | Compact Fluorescent Lamp - Screw In (13W) | One 60W Incandescent Bulb | Warehouse | Other Int. Lighting | Early | lamp | 157 | 75% | 0.03 | 4 | \$3.6 | 24% | 7.5 |
| PPL | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Warehouse | Other Int. Lighting | New | lamp | 85 | 65% | 0.01 | 4 | \$1.8 | 24% | 7.2 |
| PPL | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Warehouse | Other Int. Lighting | ROB | lamp | 112 | 65% | 0.02 | 4 | \$1.8 | 24% | 9.5 |
| PPL | Compact Fluorescent Lamp - Screw In (13W) | One 43W Incandescent Bulb | Warehouse | Other Int. Lighting | ROB | lamp | 112 | 65% | 0.02 | 4 | \$1.8 | 24% | 9.5 |
| PPL | Exit Sign Retrofit: CFL replacing Incandescent HE Lighting Fixtures/Design 10% better than code (New Construction) | One 23W Single Sided Incandescent Exit Sign | Warehouse | Other Int. Lighting | Early | exit sign | 140 | 42% | 0.01 | 15 | \$78 | 22% | 0.5 |
| PPL | HE Lighting Fixtures/Design 15% better than code (New Construction) | Lighting Meeting Code Required LPD | Warehouse | Other Int. Lighting | New | building | 4,679 | 10% | 0.1 | 15 | \$31,316 | 32% | 0.0 |
| PPL | HE Lighting Fixtures/Design 30% better than code (New Construction) | Lighting Meeting Code Required LPD | Warehouse | Other Int. Lighting | New | building | 4,679 | 15% | 0.2 | 15 | \$78,291 | 32% | 0.0 |
| PPL | Indoor Daylight Sensors | Lighting w/ No Controls | Warehouse | Other Int. Lighting | Existing | building | 4,679 | 28% | 0.3 | 8 | \$3,718 | 13% | 0.1 |
| PPL | Indoor Daylight Sensors | Lighting w/ No Controls | Warehouse | Other Int. Lighting | New | building | 4,679 | 4.1% | 0.04 | 8 | \$3,718 | 0% | 0.0 |
| PPL | LED Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Warehouse | Other Int. Lighting | Early | sign | 153 | 87% | 0.02 | 15 | \$78 | 16% | 1.1 |
| PPL | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Warehouse | Other Int. Lighting | New | sign | 88 | 78% | 0.01 | 15 | \$23 | 2% | 2.0 |
| PPL | LED Exit Signs | One 9W Single-Sided CFL Exit Sign | Warehouse | Other Int. Lighting | ROB | sign | 88 | 78% | 0.01 | 15 | \$23 | 16% | 2.0 |
| PPL | LED Task Lighting/Screw-In | 1 15W CFL bulb | Warehouse | Other Int. Lighting | Early | lamp | 43 | 33% | 0.00 | 9 | \$9.6 | 24% | 0.5 |
| PPL | LED Task Lighting/Screw-In | 1 60W Incandescent Bulb | Warehouse | Other Int. Lighting | Early | lamp | 173 | 83% | 0.03 | 9 | \$9.6 | 24% | 4.6 |
| PPL | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Warehouse | Other Int. Lighting | New | lamp | 94 | 77% | 0.01 | 9 | \$7.9 | 24% | 2.8 |
| PPL | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Warehouse | Other Int. Lighting | New | lamp | 94 | 77% | 0.01 | 9 | \$7.9 | 24% | 2.8 |
| PPL | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Warehouse | Other Int. Lighting | ROB | lamp | 124 | 77% | 0.02 | 9 | \$7.9 | 24% | 3.7 |
| PPL | LED Task Lighting/Screw-In | 1 43W EISA Compliant bulb | Warehouse | Other Int. Lighting | ROB | lamp | 124 | 77% | 0.02 | 9 | \$7.9 | 24% | 3.7 |
| PPL | Occupancy Sensor | Lighting w/ No Controls | Warehouse | Other Int. Lighting | Existing | building | 4,679 | 24% | 0.2 | 8 | \$1,138 | 12% | 0.4 |
| PPL | Occupancy Sensor | Lighting w/ No Controls | Warehouse | Other Int. Lighting | New | building | 4,679 | 7.0% | 0.07 | 8 | \$1,138 | 0% | 0.1 |
| PPL | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Warehouse | Other Int. Lighting | Existing | building | 4,679 | 28% | 0.3 | 8 | \$3,718 | 12% | 0.1 |
| PPL | Photocell Dimming Control (Interior) | Lighting w/ No Controls | Warehouse | Other Int. Lighting | New | building | 4,679 | 4.1% | 0.04 | 8 | \$3,718 | 0% | 0.0 |
| PPL | Photoluminescent Exit Signs | Existing Single-Sided Exit Signs (Average: 16 W) | Warehouse | Other Int. Lighting | Early | exit sign | 140 | 100% | 0.02 | 15 | \$203 | 26% | 0.5 |
| PPL | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Warehouse | Other Int. Lighting | New | exit sign | 81 | 100% | 0.01 | 15 | \$148 | 31% | 0.4 |
| PPL | Photoluminescent Exit Signs | One 9W Single-Sided CFL Exit Sign | Warehouse | Other Int. Lighting | ROB | exit sign | 81 | 100% | 0.01 | 15 | \$148 | 26% | 0.4 |
| PPL | Time Clock Control | Lighting w/ No Controls | Warehouse | Other Int. Lighting | Existing | building | 4,679 | 28% | 0.3 | 8 | \$755 | 13% | 0.7 |
| PPL | Time Clock Control | Lighting w/ No Controls | Warehouse | Other Int. Lighting | New | building | 4,679 | 4.1% | 0.04 | 8 | \$755 | 0% | 0.1 |
| PPL | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Warehouse | Plug Load | Existing | building | 2,913 | 46% | 0.5 | 5 | \$189 | 4% | 2.2 |
| PPL | Beverage Machine Control | Existing std refrigerated beverage vending machine w/o control systems | Warehouse | Plug Load | New | building | 1,422 | 46% | 0.5 | 5 | \$189 | 4% | 1.5 |
| PPL | Data Center - Server/Storage Consolidation | No Consolidation | Warehouse | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PPL | Data Center - Server/Storage Consolidation | No Consolidation | Warehouse | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PPL | Data Center - Server/Storage Virtualization | No Virtualization | Warehouse | Plug Load | New | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PPL | Data Center - Server/Storage Virtualization | No Virtualization | Warehouse | Plug Load | ROB | measure | 4,818 | 12% | 0.07 | 4 | \$7,434 | 4% | 0.0 |
| PPL | Energy Star - Scanners | Std Scanner | Warehouse | Plug Load | New | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| PPL | Energy Star - Scanners | Std Scanner | Warehouse | Plug Load | ROB | measure | 68 | 3.9% | 0.04 | 4 | \$130 | 7% | 0.1 |
| PPL | Energy Star Dishwasher | Existing Dishwasher units | Warehouse | Plug Load | Early | dishwasher | 27,775 | 38% | 1.2 | 10 | \$4,580 | 1% | 1.0 |
| PPL | Energy Star Dishwasher | Standard Dishwasher unit | Warehouse | Plug Load | New | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 1% | 3.3 |
| PPL | Energy Star Dishwasher | Standard Dishwasher unit | Warehouse | Plug Load | ROB | dishwasher | 25,250 | 32% | 0.9 | 10 | \$1,073 | 1% | 3.3 |
| PPL | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Warehouse | Plug Load | Early | machine | 1,773 | 16% | 0.7 | 14 | \$4,680 | 16% | 0.1 |
| PPL | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Warehouse | Plug Load | New | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 16% | 1.6 |
| PPL | ENERGY STAR Vending Machine | ENERGY STAR Refrigerated Beverage Machine | Warehouse | Plug Load | ROB | machine | 1,612 | 7.8% | 0.3 | 14 | \$180 | 16% | 1.6 |
| PPL | ENERGY STAR® Clothes Washer | One Conventional Clothes Washer | Warehouse | Plug Load | Early | clothes washer | 4,421 | 36% | 0.2 | 7 | \$682 | 9% | 0.8 |
| PPL | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Warehouse | Plug Load | New | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.6 |
| PPL | ENERGY STAR® Clothes Washer | Not Eligible for New Construction / Turnover | Warehouse | Plug Load | ROB | clothes washer | 3,522 | 20% | 0.2 | 7 | \$165 | 9% | 1.6 |
| PPL | ENERGY STAR® Copiers | 10% Less Efficient Copier | Warehouse | Plug Load | Early | Unit | 374 | 43% | 0.02 | 6 | \$17,179 | 17% | 0.0 |
| PPL | ENERGY STAR® Copiers | One Conventional Copier | Warehouse | Plug Load | New | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 17% | 0.0 |
| PPL | ENERGY STAR® Copiers | One Conventional Copier | Warehouse | Plug Load | ROB | Unit | 340 | 38% | 0.01 | 6 | \$15,883 | 17% | 0.0 |
| PPL | ENERGY STAR® desktop | Standard computer | Warehouse | Plug Load | Early | Computer | 452 | 39% | 0.02 | 4 | \$512 | 69% | 0.1 |
| PPL | ENERGY STAR® desktop | Standard computer | Warehouse | Plug Load | New | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.2 |
| PPL | ENERGY STAR® desktop | Standard computer | Warehouse | Plug Load | ROB | Computer | 411 | 32% | 0.02 | 4 | \$12 | 69% | 2.2 |
| PPL | ENERGY STAR® Fax | 10% Less Efficient Fax | Warehouse | Plug Load | Early | Unit | 269 | 36% | 0.01 | 4 | \$1,389 | 15% | 0.0 |
| PPL | ENERGY STAR® Fax | One Conventional Fax | Warehouse | Plug Load | New | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| PPL | ENERGY STAR® Fax | One Conventional Fax | Warehouse | Plug Load | ROB | Unit | 245 | 30% | 0.01 | 4 | \$93 | 15% | 0.2 |
| PPL | ENERGY STAR® Monitors | 10% Less Efficient Monitor | Warehouse | Plug Load | Early | Unit | 45 | 47% | 0.02 | 4 | \$356 | 69% | 0.0 |
| PPL | ENERGY STAR® Monitors | One Conventional Monitor | Warehouse | Plug Load | New | Unit | 41 | 42% | 0.01 | 4 | \$206 | 69% | 0.0 |
| PPL | ENERGY STAR® Monitors | One Conventional Monitor | Warehouse | Plug Load | ROB | Unit | 41 | 42% | 0.01 | 4 | \$206 | 69% | 0.0 |
| PPL | ENERGY STAR® Printers | 10% Less Efficient Printer | Warehouse | Plug Load | Early | Unit | 481 | 36% | 0.06 | 5 | \$1,426 | 43% | 0.0 |
| PPL | ENERGY STAR® Printers | One Conventional Printer | Warehouse | Plug Load | New | Unit | 438 | 30% | 0.05 | 5 | \$130 | 43% | 0.3 |
| PPL | ENERGY STAR® Printers | One Conventional Printer | Warehouse | Plug Load | ROB | Unit | 438 | 30% | 0.05 | 5 | \$130 | 43% | 0.3 |
| PPL | ENERGY STAR® Refrigerators | 10% Less Efficient Refrigerator w/ Top Mounted Freezer (No Ice Service) | Warehouse | Plug Load | Early | Unit | 508 | 17% | 0.01 | 12 | \$689 | 43% | 0.1 |
| PPL | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Warehouse | Plug Load | New | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.8 |
| PPL | ENERGY STAR® Refrigerators | One Conventional Refrigerator w/ Top Mounted Freezer (No Ice Service) | Warehouse | Plug Load | ROB | Unit | 462 | 8.2% | 0.00 | 12 | \$26 | 43% | 0.7 |
| PPL | ENERGY STAR® Televisions | 10% Less Efficient Television | Warehouse | Plug Load | Early | Unit | 199 | 38% | 0.01 | 6 | \$672 | 41% | 0.0 |
| PPL | ENERGY STAR® Televisions | One Conventional Television | Warehouse | Plug Load | New | Unit | 181 | 32% | 0.01 | 6 | \$206 | 41% | 0.1 |
| PPL | ENERGY STAR® Televisions | One Conventional Television | Warehouse | Plug Load | ROB | Unit | 181 | 32% | 0.01 | 6 | \$206 | 41% | 0.1 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|--|-----------|---------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | ENERGY STAR® Water Coolers | 10% Less Efficient Water Cooler | Warehouse | Plug Load | Early | Unit | 498 | 70% | 0.04 | 10 | \$566 | 24% | 0.3 |
| PPL | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Warehouse | Plug Load | New | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.6 |
| PPL | ENERGY STAR® Water Coolers | One Conventional Water Cooler | Warehouse | Plug Load | ROB | Unit | 453 | 67% | 0.03 | 10 | \$216 | 24% | 0.6 |
| PPL | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Warehouse | Plug Load | New | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.2 |
| PPL | High-efficiency coin-op washer w/o Electric Water Heat | Coin-op wash, w/out electric hot water | Warehouse | Plug Load | ROB | washer | 1,180 | 20% | 0.06 | 10 | \$475 | 21% | 0.2 |
| PPL | Network PC Power Management | No PC Power Management | Warehouse | Plug Load | Existing | computer | 425 | 33% | 0.01 | 5 | \$30 | 38% | 1.0 |
| PPL | Network PC Power Management | No PC Power Management | Warehouse | Plug Load | New | computer | 425 | 33% | 0.01 | 5 | \$30 | 38% | 1.0 |
| PPL | Smart Strip Plug Outlets | Standard plug strip/outlet | Warehouse | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.4 |
| PPL | Smart Strip Plug Outlets | Standard plug strip/outlet | Warehouse | Plug Load | Early | Smart Strip | 378 | 33% | 0.01 | 5 | \$21 | 85% | 1.4 |
| PPL | Smart Strip Plug Outlets | Standard plug strip/outlet | Warehouse | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PPL | Smart Strip Plug Outlets | Standard plug strip/outlet | Warehouse | Plug Load | New | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PPL | Smart Strip Plug Outlets | Standard plug strip/outlet | Warehouse | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PPL | Smart Strip Plug Outlets | Standard plug strip/outlet | Warehouse | Plug Load | ROB | Smart Strip | 296 | 33% | 0.01 | 5 | \$21 | 85% | 1.1 |
| PPL | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Warehouse | Plug Load | Existing | building | 2,913 | 46% | 0.5 | 5 | \$180 | 3% | 2.3 |
| PPL | Snack Machine Controls (Non-Refrigerated) | Non-refrigerated Snack Vending Machine w/out Controls | Warehouse | Plug Load | New | building | 1,422 | 46% | 0.5 | 5 | \$180 | 3% | 1.5 |
| PPL | Auto Closer on Refrigerator Door | Door w/out Autocloser | Warehouse | Refrigeration | Existing | building | 5,690 | 8.2% | 0.08 | 8 | \$642 | 40% | 0.3 |
| PPL | Auto Closer on Refrigerator Door | Door w/out Autocloser | Warehouse | Refrigeration | Existing | building | 18,920 | 3.4% | 0.03 | 8 | \$476 | 40% | 0.4 |
| PPL | Auto Closer on Refrigerator Door | Door w/out Autocloser | Warehouse | Refrigeration | New | building | 5,690 | 8.2% | 0.08 | 8 | \$642 | 40% | 0.3 |
| PPL | Auto Closer on Refrigerator Door | Door w/out Autocloser | Warehouse | Refrigeration | New | building | 18,920 | 3.4% | 0.03 | 8 | \$476 | 40% | 0.4 |
| PPL | Door Gasket- Freezer | Door w/out Gasket | Warehouse | Refrigeration | Existing | building | 5,690 | 4.4% | 0.04 | 4 | \$66 | 29% | 0.8 |
| PPL | Door Gasket- Freezer | Door w/out Gasket | Warehouse | Refrigeration | New | building | 5,690 | 4.4% | 0.04 | 4 | \$66 | 29% | 0.8 |
| PPL | Door Gasket- Refrigerator | Door w/out Gasket | Warehouse | Refrigeration | Existing | building | 18,920 | 1.1% | 0.01 | 4 | \$66 | 45% | 0.6 |
| PPL | Door Gasket- Refrigerator | Door w/out Gasket | Warehouse | Refrigeration | New | building | 18,920 | 1.1% | 0.01 | 4 | \$66 | 45% | 0.6 |
| PPL | eCube | Refrigeration unit w/out eCube | Warehouse | Refrigeration | Existing | building | 18,920 | 15% | 0.2 | 15 | \$144 | 57% | 11.3 |
| PPL | eCube | Refrigeration unit w/out eCube | Warehouse | Refrigeration | New | building | 18,920 | 15% | 0.2 | 15 | \$144 | 57% | 11.3 |
| PPL | Efficient compressor motor | Base Refrigeration System - Grocery | Warehouse | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| PPL | Efficient compressor motor | Base Refrigeration System - Grocery | Warehouse | Refrigeration | New | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| PPL | Efficient compressor motor | Base Refrigeration System - Grocery | Warehouse | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| PPL | Efficient compressor motor | Base Refrigeration System - Grocery | Warehouse | Refrigeration | ROB | measure | 15,825 | 4.0% | 0.07 | 5 | \$60 | 0% | 2.5 |
| PPL | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Warehouse | Refrigeration | Early | machine | 2,913 | 54% | 0.2 | 14 | \$1,638 | 15% | 0.6 |
| PPL | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Warehouse | Refrigeration | New | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| PPL | Energy STAR Refrigerated Beverage Vending Machine (Class-A) | Non-Energy STAR Beverage Vending Machine (Class-A) | Warehouse | Refrigeration | ROB | machine | 1,422 | 5.0% | 0.01 | 14 | \$149 | 15% | 0.3 |
| PPL | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Warehouse | Refrigeration | Early | machine | 2,383 | 32% | 0.09 | 14 | \$1,638 | 15% | 0.3 |
| PPL | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Warehouse | Refrigeration | New | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.7 |
| PPL | Energy STAR Refrigerated Beverage Vending Machine (Class-B) | Non-Energy STAR Beverage Vending Machine (Class-B) | Warehouse | Refrigeration | ROB | machine | 1,805 | 10% | 0.02 | 14 | \$149 | 15% | 0.7 |
| PPL | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Warehouse | Refrigeration | Existing | building | 18,920 | 0.6% | 0.01 | 10 | \$369 | 77% | 0.1 |
| PPL | Evaporator Coil Defrost Control (Cooler) | Refrigerator w/out Evaporator Controls | Warehouse | Refrigeration | New | building | 18,920 | 0.6% | 0.01 | 10 | \$369 | 77% | 0.1 |
| PPL | Floating head pressure controller | System w/out FHPC | Warehouse | Refrigeration | Existing | building | 5,690 | 0.9% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| PPL | Floating head pressure controller | System w/out FHPC | Warehouse | Refrigeration | Existing | building | 18,920 | 0.4% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| PPL | Floating head pressure controller | System w/out FHPC | Warehouse | Refrigeration | New | building | 5,690 | 0.9% | 0.01 | 15 | \$8,682 | 41% | 0.0 |
| PPL | Floating head pressure controller | System w/out FHPC | Warehouse | Refrigeration | New | building | 18,920 | 0.4% | 0.00 | 15 | \$8,682 | 41% | 0.0 |
| PPL | High Efficiency Commercial Freezer | Std. Commercial Freezer | Warehouse | Refrigeration | Early | freezer | 7,094 | 36% | 0.2 | 12 | \$3,933 | 86% | 0.3 |
| PPL | High Efficiency Commercial Freezer | Std. Commercial Freezer | Warehouse | Refrigeration | New | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 3.9 |
| PPL | High Efficiency Commercial Freezer | Std. Commercial Freezer | Warehouse | Refrigeration | ROB | freezer | 6,169 | 26% | 0.1 | 12 | \$204 | 86% | 3.9 |
| PPL | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Warehouse | Refrigeration | Early | machine | 2,385 | 44% | 0.09 | 12 | \$4,334 | 2% | 0.1 |
| PPL | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Warehouse | Refrigeration | New | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.9 |
| PPL | High Efficiency Commercial Refrigerator | Std. Commercial Refrigerator | Warehouse | Refrigeration | ROB | machine | 2,074 | 35% | 0.06 | 12 | \$413 | 2% | 0.9 |
| PPL | High Efficiency Ice Maker | Existing Standard Efficiency Ice Maker in Pennsylvania | Warehouse | Refrigeration | Early | ice maker | 7,954 | 17% | 0.05 | 10 | \$3,480 | 73% | 0.2 |
| PPL | High Efficiency Ice Maker | Standard code minimum Ice Maker | Warehouse | Refrigeration | New | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| PPL | High Efficiency Ice Maker | Standard code minimum Ice Maker | Warehouse | Refrigeration | ROB | ice maker | 7,231 | 8.8% | 0.02 | 10 | \$1,485 | 73% | 0.2 |
| PPL | High Efficiency Ice Making Head | Standard Ice Making Head | Warehouse | Refrigeration | New | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.7 |
| PPL | High Efficiency Ice Making Head | Standard Ice Making Head | Warehouse | Refrigeration | ROB | measure | 11,815 | 10% | 0.1 | 10 | \$140 | 75% | 3.7 |
| PPL | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Warehouse | Refrigeration | Early | Fixture | 373 | 56% | 0.02 | 8 | \$448 | 47% | 0.2 |
| PPL | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Warehouse | Refrigeration | New | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 47% | 0.3 |
| PPL | LED Refrigerated Case Door Lighting | One 1-Lamp T8 Fixture | Warehouse | Refrigeration | ROB | Fixture | 291 | 44% | 0.01 | 8 | \$139 | 47% | 0.3 |
| PPL | Quick acting freezer doors | Std. Freezer Doors | Warehouse | Refrigeration | Existing | building | 5,690 | 13% | 0.1 | 10 | \$2,258 | 56% | 0.1 |
| PPL | Quick acting freezer doors | Std. Freezer Doors | Warehouse | Refrigeration | New | building | 5,690 | 13% | 0.1 | 10 | \$2,258 | 56% | 0.1 |
| PPL | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Warehouse | Refrigeration | Early | evap fan motor | 277 | 37% | 0.01 | 15 | \$159 | 30% | 0.4 |
| PPL | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Warehouse | Refrigeration | New | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.6 |
| PPL | Reach-in PSC to ECM Evaporator Fan Motor | PSC Evaporator Fan Motor | Warehouse | Refrigeration | ROB | evap fan motor | 277 | 37% | 0.01 | 15 | \$40 | 30% | 1.6 |
| PPL | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | Early | evap fan motor | 587 | 70% | 0.05 | 15 | \$159 | 30% | 1.6 |
| PPL | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | New | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 2.8 |
| PPL | Reach-in Shaded Pole to ECM Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | ROB | evap fan motor | 587 | 70% | 0.05 | 15 | \$90 | 30% | 2.8 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|---|-----------|-----------------|----------|----------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | Early | evap fan motor | 587 | 53% | 0.04 | 15 | \$119 | 30% | 1.6 |
| PPL | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | New | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 3.8 |
| PPL | Reach-in Shaded Pole to PSC Evaporator Fan Motor | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | ROB | evap fan motor | 587 | 53% | 0.04 | 15 | \$50 | 30% | 3.8 |
| PPL | Refrigeration Commissioning | Non-commissioned refrigeration system | Warehouse | Refrigeration | Existing | building | 28,451 | 9.5% | 0.10 | 3 | \$4,963 | 85% | 0.1 |
| PPL | Refrigeration Commissioning | Non-commissioned refrigeration system | Warehouse | Refrigeration | New | building | 28,451 | 9.5% | 0.10 | 3 | \$4,963 | 85% | 0.1 |
| PPL | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Warehouse | Refrigeration | Existing | building | 5,690 | 11% | 0.1 | 4 | \$80 | 22% | 1.6 |
| PPL | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Warehouse | Refrigeration | Existing | building | 18,920 | 1.5% | 0.02 | 4 | \$80 | 22% | 0.6 |
| PPL | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Warehouse | Refrigeration | New | building | 5,690 | 11% | 0.1 | 4 | \$80 | 22% | 1.6 |
| PPL | Strip Curtains | Walk in Unit Door w/ no Strip Curtain | Warehouse | Refrigeration | New | building | 18,920 | 1.5% | 0.02 | 4 | \$80 | 22% | 0.6 |
| PPL | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Warehouse | Refrigeration | Existing | building | 5,690 | 2.6% | 0.03 | 11 | \$152 | 80% | 0.5 |
| PPL | Suction Pipe Insulation - Freezer | Suction Pipe w/ No Insulation | Warehouse | Refrigeration | New | building | 5,690 | 2.6% | 0.03 | 11 | \$152 | 80% | 0.5 |
| PPL | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Warehouse | Refrigeration | Existing | building | 18,920 | 2.0% | 0.02 | 11 | \$152 | 80% | 1.1 |
| PPL | Suction Pipe Insulation - Refrigerator | Suction Pipe w/ No Insulation | Warehouse | Refrigeration | New | building | 18,920 | 2.0% | 0.02 | 11 | \$152 | 80% | 1.1 |
| PPL | VSD Controlled Compressor | Compressor w/out VSD | Warehouse | Refrigeration | Early | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |
| PPL | VSD Controlled Compressor | Compressor w/out VSD | Warehouse | Refrigeration | New | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |
| PPL | VSD Controlled Compressor | Compressor w/out VSD | Warehouse | Refrigeration | ROB | Refrigerator | 1,248 | 14% | 0.02 | 15 | \$731 | 45% | 0.1 |
| PPL | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Warehouse | Refrigeration | Early | evap fan motor | 996 | 38% | 0.05 | 15 | \$269 | 24% | 0.9 |
| PPL | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Warehouse | Refrigeration | Early | evap fan motor | 945 | 38% | 0.04 | 15 | \$269 | 24% | 0.8 |
| PPL | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Warehouse | Refrigeration | New | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 24% | 3.0 |
| PPL | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Warehouse | Refrigeration | New | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 24% | 2.9 |
| PPL | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Warehouse | Refrigeration | ROB | evap fan motor | 996 | 38% | 0.05 | 15 | \$76 | 24% | 3.0 |
| PPL | Walk-in PSC to ECM | PSC Evaporator Fan Motor | Warehouse | Refrigeration | ROB | evap fan motor | 945 | 38% | 0.04 | 15 | \$76 | 24% | 2.9 |
| PPL | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | Early | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$269 | 24% | 2.3 |
| PPL | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | Early | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$269 | 24% | 2.2 |
| PPL | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | New | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$151 | 24% | 4.1 |
| PPL | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | New | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$151 | 24% | 3.9 |
| PPL | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | ROB | evap fan motor | 1,627 | 62% | 0.1 | 15 | \$151 | 24% | 4.1 |
| PPL | Walk-in Shaded Pole to ECM | Shaded Pole Evaporator Fan Motor | Warehouse | Refrigeration | ROB | evap fan motor | 1,542 | 62% | 0.1 | 15 | \$151 | 24% | 3.9 |
| PPL | Adding reflective roof treatment | Std color roof | Warehouse | Space Heating | Existing | building | 11,506 | 7.1% | 0.07 | 6 | \$20,704 | 82% | 0.0 |
| PPL | Adding reflective roof treatment | Std color roof | Warehouse | Space Heating | New | building | 11,506 | 7.1% | 0.07 | 6 | \$20,704 | 82% | 0.0 |
| PPL | Adding window shade film | No shade film | Warehouse | Space Heating | Existing | building | 11,506 | 1.3% | 0.4 | 10 | \$140 | 13% | 1.8 |
| PPL | Adding window shade film | No shade film | Warehouse | Space Heating | New | building | 11,506 | 1.3% | 0.4 | 10 | \$140 | 13% | 1.8 |
| PPL | Adding window shade screen | No shade screen | Warehouse | Space Heating | Existing | building | 11,506 | 1.1% | 0.01 | 10 | \$54 | 13% | 1.0 |
| PPL | Adding window shade screen | No shade screen | Warehouse | Space Heating | New | building | 11,506 | 1.1% | 0.01 | 10 | \$54 | 13% | 1.0 |
| PPL | Automated control system | Manual Controls | Warehouse | Space Heating | Existing | building | 11,506 | 17% | 0.2 | 15 | \$12,597 | 51% | 0.1 |
| PPL | Automated control system | Manual Controls | Warehouse | Space Heating | New | building | 11,506 | 17% | 0.2 | 15 | \$12,597 | 94% | 0.1 |
| PPL | Ceiling Insualtions (Going upto R 20) | Exisiting Ceiling Insulation is Pennsylvania for all end uses mentioned | Warehouse | Space Heating | Existing | building | 11,506 | 5.9% | 0.06 | 15 | \$27,901 | 71% | 0.0 |
| PPL | Ceiling Insualtions (Going upto R 20) | Code Ceiling Insulation to R-16.8 | Warehouse | Space Heating | New | building | 11,506 | 3.7% | 0.04 | 15 | \$26,520 | 94% | 0.0 |
| PPL | Duct Insulation, Add R8 | No Insulation | Warehouse | Space Heating | Existing | building | 11,506 | 1.4% | 0.04 | 15 | \$91 | 20% | 1.3 |
| PPL | Duct Insulation, Add R8 | No Insulation | Warehouse | Space Heating | New | building | 11,506 | 1.4% | 0.04 | 15 | \$91 | 10% | 1.3 |
| PPL | Efficient Unit Heating System | Existing Unit Heaters in PA | Warehouse | Space Heating | Early | heater | 19,979 | 23% | 0.03 | 15 | \$3,289 | 83% | 0.8 |
| PPL | Efficient Unit Heating System | Std. Unit Heater | Warehouse | Space Heating | New | heater | 17,732 | 13% | 0.02 | 15 | \$1,985 | 83% | 0.6 |
| PPL | Efficient Unit Heating System | Std. Unit Heater | Warehouse | Space Heating | ROB | heater | 17,732 | 13% | 0.02 | 15 | \$1,985 | 83% | 0.6 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Warehouse | Space Heating | Existing | building | 11,506 | 7.1% | 0.07 | 15 | \$51,040 | 25% | 0.0 |
| PPL | Green Roof (New construction or roof replacement) | Std Roof | Warehouse | Space Heating | New | building | 11,506 | 7.1% | 0.07 | 15 | \$51,040 | 35% | 0.0 |
| PPL | Hi Eff HVAC System Design | No HVAC Design | Warehouse | Space Heating | New | building | 11,506 | 12% | 0.1 | 10 | \$129,743 | 51% | 0.0 |
| PPL | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Warehouse | Space Heating | New | measure | 2,794 | 5.5% | 0.04 | 10 | \$77 | 32% | 1.0 |
| PPL | Humidification w/ High pressure, Ultrasonic devices | Electric Resistive Elements | Warehouse | Space Heating | ROB | measure | 2,794 | 5.5% | 0.04 | 10 | \$77 | 32% | 1.0 |
| PPL | Outside Air Economizer | No Economizer (Existing HVAC Efficiencies in PA) | Warehouse | Space Heating | Existing | building | 11,506 | 1.1% | 0.01 | 10 | \$7,735 | 81% | 0.0 |
| PPL | Outside Air Economizer | No Economizer (Code Minimum HVAC Efficiencies) | Warehouse | Space Heating | New | building | 11,506 | 1.1% | 0.01 | 10 | \$7,735 | 81% | 0.0 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Warehouse | Space Heating | Existing | building | 11,506 | 3.6% | 0.04 | 11 | \$286 | 49% | 0.7 |
| PPL | Programmable Thermostat (7 Day, 2 Stage Setback) | HVAC system w/ Manual Thermostat (Code Min Eff) | Warehouse | Space Heating | New | building | 11,506 | 3.1% | 0.03 | 11 | \$146 | 49% | 1.1 |
| PPL | Re-Commissioning (Existing Construction) | No Re-Commissioning | Warehouse | Space Heating | Existing | building | 11,506 | 16% | 0.2 | 5 | \$8,619 | 86% | 0.1 |
| PPL | VFD on Cooling Tower Fan | Motor w/out VFD | Warehouse | Space Heating | Early | motor | 16,452 | 70% | 3.4 | 15 | \$2,843 | 88% | 3.1 |
| PPL | VFD on Cooling Tower Fan | Motor w/out VFD | Warehouse | Space Heating | New | motor | 16,144 | 72% | 3.3 | 15 | \$2,843 | 88% | 3.1 |
| PPL | VFD on Cooling Tower Fan | Motor w/out VFD | Warehouse | Space Heating | ROB | motor | 16,144 | 72% | 3.3 | 15 | \$2,843 | 88% | 3.1 |
| PPL | Wall Insualtions (Going upto R 21) | Exisiting Wall Insulation is Pennsylvania for all end uses mentioned | Warehouse | Space Heating | Existing | building | 11,507 | 19% | 0.2 | 15 | \$6,551 | 26% | 0.2 |
| PPL | Wall Insualtions (Going upto R 21) | Code minimum Wall Insulations | Warehouse | Space Heating | New | building | 11,507 | 0.6% | 0.01 | 15 | \$5,025 | 94% | 0.0 |
| PPL | Green LED Traffic Light | Green Incandescent Traffic Light | Warehouse | Street Lighting | Early | Fixture | 412 | 93% | 0.04 | 10 | \$145 | 0% | 1.2 |
| PPL | Green LED Traffic Light | Green Incandescent Traffic Light | Warehouse | Street Lighting | New | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| PPL | Green LED Traffic Light | Green Incandescent Traffic Light | Warehouse | Street Lighting | ROB | Fixture | 51 | 44% | 0.00 | 10 | \$70 | 0% | 0.1 |
| PPL | Hand/Man LED | Hand/Man Inc. Fixture w/out countdown | Warehouse | Street Lighting | Early | Fixture | 1,016 | 94% | 0.1 | 10 | \$145 | 0% | 3.0 |
| PPL | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Warehouse | Street Lighting | New | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |
| PPL | Hand/Man LED | Hand/Man Std Fixture w/out countdown | Warehouse | Street Lighting | ROB | Fixture | 128 | 50% | 0.01 | 10 | \$71 | 0% | 0.4 |

| EDC | Commercial Measure Name | Commercial Baseline Description | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|---|-----------|-----------------|----------|--------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Induction Street Lighting | One 100W HPS Street Light Fixture | Warehouse | Street Lighting | Early | Fixture | 529 | 42% | 0.03 | 13 | \$418 | 0% | 0.3 |
| PPL | Induction Street Lighting | One 100W HPS Street Light Fixture | Warehouse | Street Lighting | New | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.7 |
| PPL | Induction Street Lighting | One 100W HPS Street Light Fixture | Warehouse | Street Lighting | ROB | Fixture | 529 | 42% | 0.03 | 13 | \$73 | 0% | 1.7 |
| PPL | LED Street Lighting | One 100W HPS Street Light | Warehouse | Street Lighting | Early | Fixture | 529 | 51% | 0.03 | 13 | \$815 | 0% | 0.2 |
| PPL | LED Street Lighting | One 100W HPS Street Light | Warehouse | Street Lighting | New | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| PPL | LED Street Lighting | One 100W HPS Street Light | Warehouse | Street Lighting | ROB | Fixture | 529 | 51% | 0.03 | 13 | \$470 | 0% | 0.3 |
| PPL | Red LED Traffic Light | One Red Incandescent Traffic Light | Warehouse | Street Lighting | Early | Fixture | 528 | 95% | 0.06 | 10 | \$143 | 0% | 1.6 |
| PPL | Red LED Traffic Light | One Red Incandescent Traffic Light | Warehouse | Street Lighting | New | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| PPL | Red LED Traffic Light | One Red Incandescent Traffic Light | Warehouse | Street Lighting | ROB | Fixture | 72 | 60% | 0.00 | 10 | \$69 | 0% | 0.3 |
| PPL | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Warehouse | Street Lighting | Early | Fixture | 19 | 91% | 0.00 | 10 | \$129 | 0% | 0.1 |
| PPL | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Warehouse | Street Lighting | New | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| PPL | Yellow LED Traffic Light | Yellow Incandescent Traffic Light | Warehouse | Street Lighting | ROB | Fixture | 2 | 33% | 0.00 | 10 | \$61 | 0% | 0.0 |
| PPL | Demand controlled Circulating Systems | Constant circulation system | Warehouse | Water Heating | Existing | building | 2,362 | 20% | 0.2 | 15 | \$429 | 59% | 1.0 |
| PPL | Demand controlled Circulating Systems | Constant circulation system | Warehouse | Water Heating | New | building | 2,362 | 20% | 0.2 | 15 | \$429 | 59% | 1.0 |
| PPL | Drainwater Heat Recovery Water Heater | No heat recovery | Warehouse | Water Heating | New | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.9 |
| PPL | Drainwater Heat Recovery Water Heater | No heat recovery | Warehouse | Water Heating | ROB | measure | 21,778 | 40% | 1.8 | 15 | \$3,364 | 75% | 1.9 |
| PPL | Faucet Aerators | Low Flow Aerator (1.5 GPM) | Warehouse | Water Heating | Existing | building | 2,362 | 5.9% | 0.06 | 12 | \$14 | 85% | 7.2 |
| PPL | Faucet Aerators | Low Flow Aerator (2.0 GPM) | Warehouse | Water Heating | New | building | 2,362 | 5.9% | 0.06 | 12 | \$4.0 | 85% | 25.2 |
| PPL | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Warehouse | Water Heating | Early | water heater | 7,897 | 66% | 0.9 | 10 | \$2,045 | 29% | 1.2 |
| PPL | Heat Pump Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Warehouse | Water Heating | Early | water heater | 7,897 | 66% | 0.9 | 10 | \$2,045 | 29% | 1.2 |
| PPL | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Warehouse | Water Heating | New | water heater | 7,897 | 66% | 0.9 | 10 | \$1,187 | 29% | 2.1 |
| PPL | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Warehouse | Water Heating | New | water heater | 7,897 | 66% | 0.9 | 10 | \$1,187 | 29% | 2.1 |
| PPL | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Warehouse | Water Heating | ROB | water heater | 7,678 | 65% | 0.9 | 10 | \$1,187 | 29% | 2.0 |
| PPL | Heat Pump Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Warehouse | Water Heating | ROB | water heater | 7,678 | 65% | 0.9 | 10 | \$1,187 | 29% | 2.0 |
| PPL | Heat Recovery Unit | Base Water Heating | Warehouse | Water Heating | New | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.6 |
| PPL | Heat Recovery Unit | Base Water Heating | Warehouse | Water Heating | ROB | measure | 21,659 | 50% | 2.3 | 15 | \$4,800 | 70% | 1.6 |
| PPL | Heat Trap | No Heat Trap | Warehouse | Water Heating | New | building | 2,362 | 22% | 0.2 | 11 | \$2.4 | 21% | 147.2 |
| PPL | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Warehouse | Water Heating | Early | water heater | 7,897 | 5.9% | 0.08 | 15 | \$865 | 36% | 0.4 |
| PPL | High Efficiency Electric Water Heater (50 Gallon) | Existing std. Water Heater (50 Gallon) | Warehouse | Water Heating | Early | water heater | 7,897 | 5.9% | 0.08 | 15 | \$865 | 36% | 0.4 |
| PPL | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Warehouse | Water Heating | New | water heater | 7,678 | 3.2% | 0.04 | 15 | \$307 | 36% | 0.6 |
| PPL | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Warehouse | Water Heating | New | water heater | 7,678 | 3.2% | 0.04 | 15 | \$307 | 36% | 0.6 |
| PPL | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Warehouse | Water Heating | ROB | water heater | 7,678 | 3.2% | 0.04 | 15 | \$307 | 36% | 0.6 |
| PPL | High Efficiency Electric Water Heater (50 Gallon) | Std. Water heater (50 Gallon) | Warehouse | Water Heating | ROB | water heater | 7,678 | 3.2% | 0.04 | 15 | \$307 | 36% | 0.6 |
| PPL | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Existing std. Water Heater (50 Gallon) | Warehouse | Water Heating | Early | water heater | 96,871 | 27% | 4.7 | 15 | \$646 | 81% | 28.2 |
| PPL | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Warehouse | Water Heating | New | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 20.4 |
| PPL | High Efficiency small Instantaneous Water Heater (30% above the minimum) | Std. Water heater (50 Gallon) | Warehouse | Water Heating | ROB | water heater | 10,350 | 25% | 0.5 | 15 | \$88 | 81% | 20.4 |
| PPL | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | Standard efficiency electric water heater | Warehouse | Water Heating | Existing | building | 2,362 | 0.8% | 0.01 | 13 | \$3.0 | 30% | 4.9 |
| PPL | Hot Water (DHW) Pipe Insulation (Add 3/4" Foam) | N/A - Retrofit Only | Warehouse | Water Heating | New | building | 2,362 | 0.8% | 0.01 | 13 | \$3.0 | 0% | 4.9 |
| PPL | Hot Water Circulation Pump Time-Clock | Constant circulation system | Warehouse | Water Heating | Existing | building | 2,362 | 5.3% | 0.05 | 10 | \$9.5 | 72% | 8.1 |
| PPL | Hot Water Circulation Pump Time-Clock | Constant circulation system | Warehouse | Water Heating | New | building | 2,362 | 5.3% | 0.05 | 10 | \$9.5 | 72% | 8.1 |
| PPL | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Warehouse | Water Heating | Existing | building | 2,362 | 1.2% | 0.01 | 7 | \$22 | 35% | 0.6 |
| PPL | Insulating Tank Wrap on Water Heater (R-11) | Water heater w/out tank wrap (R-8.3) | Warehouse | Water Heating | New | building | 2,362 | 1.1% | 0.01 | 7 | \$0.5 | 35% | 24.5 |
| PPL | Low Flow Pre-Rinse Sprayers | Std Existing Pre-Rinse Sprayers (2.5 GPM) | Warehouse | Water Heating | Existing | building | 2,362 | 8.0% | 0.08 | 5 | \$300 | 0% | 0.2 |
| PPL | Low Flow Pre-Rinse Sprayers | Std Pre-Rinse Sprayers (2.25GPM) | Warehouse | Water Heating | New | building | 2,362 | 5.3% | 0.05 | 5 | \$194 | 0% | 0.2 |
| PPL | Low-Flow Showerhead | Standard Showerhead (2.5 GPM) | Warehouse | Water Heating | Existing | building | 2,362 | 6.5% | 0.07 | 9 | \$25 | 2% | 3.5 |
| PPL | Low-Flow Showerhead | Low-Flow Showerhead (2.0 GPM) | Warehouse | Water Heating | New | building | 2,362 | 6.5% | 0.07 | 9 | \$6.0 | 2% | 14.4 |
| PPL | Solar Electric Water Heater (50 Gallon) | Existing std. Electric Water Heater (50 Gallon) | Warehouse | Water Heating | Early | water heater | 7,897 | 52% | 0.3 | 15 | \$7,080 | 14% | 0.4 |
| PPL | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Warehouse | Water Heating | New | water heater | 7,678 | 51% | 0.3 | 15 | \$6,222 | 14% | 0.4 |
| PPL | Solar Electric Water Heater (50 Gallon) | Std. Electric Water heater (50 Gallon) | Warehouse | Water Heating | ROB | water heater | 7,678 | 51% | 0.3 | 15 | \$6,222 | 14% | 0.4 |
| PPL | Ultrasonic Faucet Control | Manual Faucet Control | Warehouse | Water Heating | Existing | building | 2,362 | 3.1% | 0.03 | 10 | \$408 | 54% | 0.1 |
| PPL | Ultrasonic Faucet Control | Manual Faucet Control | Warehouse | Water Heating | New | building | 2,362 | 3.1% | 0.03 | 10 | \$408 | 54% | 0.1 |
| PPL | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Warehouse | Water Heating | Existing | building | 2,362 | 2.2% | 0.02 | 4 | \$28 | 35% | 0.5 |
| PPL | Water Heater Thermostat Setback | Water Heater w/ constant Setpoint Thermostat | Warehouse | Water Heating | New | building | 2,362 | 2.3% | 0.02 | 4 | \$28 | 35% | 0.6 |

APPENDIX F

INDUSTRIAL SECTOR ASSUMPTIONS BY EDC

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|----------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Circulating Fans | Mfg: Chemicals | Fans | Early | end use | 415,052 | 5.0% | 2.47 | 10 | \$2,527 | 68% | 2.34 |
| DLC | Circulating Fans | Mfg: Chemicals | Fans | New | end use | 415,052 | 5.0% | 2.47 | 10 | \$2,527 | 68% | 2.34 |
| DLC | Circulating Fans | Mfg: Chemicals | Fans | ROB | end use | 415,052 | 5.0% | 2.47 | 10 | \$2,527 | 68% | 2.34 |
| DLC | Facility Energy Management | Mfg: Chemicals | Fans | Existing | end use | 415,052 | 1.8% | 0.91 | 2 | \$160 | 77% | 1.00 |
| DLC | Facility Energy Management | Mfg: Chemicals | Fans | New | end use | 415,052 | 1.8% | 0.91 | 2 | \$160 | 77% | 1.00 |
| DLC | HE Motors | Mfg: Chemicals | Fans | Early | end use | 415,052 | 2.0% | 1.01 | 15 | \$2,471 | 77% | 1.87 |
| DLC | HE Motors | Mfg: Chemicals | Fans | New | end use | 415,052 | 2.0% | 1.01 | 15 | \$2,471 | 77% | 1.87 |
| DLC | HE Motors | Mfg: Chemicals | Fans | ROB | end use | 415,052 | 2.0% | 1.01 | 15 | \$2,471 | 77% | 1.87 |
| DLC | Improved Controls - Fans | Mfg: Chemicals | Fans | Existing | end use | 415,052 | 7.1% | 3.51 | 10 | \$1,609 | 88% | 3.59 |
| DLC | Improved Controls - Fans | Mfg: Chemicals | Fans | New | end use | 415,052 | 7.1% | 3.51 | 10 | \$1,609 | 88% | 3.59 |
| DLC | Properly Sized Fans | Mfg: Chemicals | Fans | Early | end use | 415,052 | 13% | 6.50 | 10 | \$8,501 | 41% | 1.99 |
| DLC | Properly Sized Fans | Mfg: Chemicals | Fans | New | end use | 415,052 | 13% | 6.50 | 10 | \$8,501 | 41% | 1.99 |
| DLC | Properly Sized Fans | Mfg: Chemicals | Fans | ROB | end use | 415,052 | 13% | 6.50 | 10 | \$8,501 | 41% | 1.99 |
| DLC | Synchronous Belts | Mfg: Chemicals | Fans | Early | end use | 415,052 | 1.2% | 0.58 | 10 | \$612 | 41% | 2.28 |
| DLC | Synchronous Belts | Mfg: Chemicals | Fans | New | end use | 415,052 | 1.2% | 0.58 | 10 | \$612 | 41% | 2.28 |
| DLC | Synchronous Belts | Mfg: Chemicals | Fans | ROB | end use | 415,052 | 1.2% | 0.58 | 10 | \$612 | 41% | 2.28 |
| DLC | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Chemicals | HVAC | Early | unit (ton) | 165,984 | 9.2% | 3.95 | 15 | \$30,236 | 28% | 0.39 |
| DLC | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Chemicals | HVAC | New | unit (ton) | 165,984 | 4.1% | 1.77 | 15 | \$7,326 | 28% | 0.70 |
| DLC | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Chemicals | HVAC | ROB | unit (ton) | 165,984 | 4.1% | 1.77 | 15 | \$7,326 | 28% | 0.70 |
| DLC | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Chemicals | HVAC | Early | unit (ton) | 165,984 | 12% | 5.34 | 15 | \$35,645 | 28% | 0.45 |
| DLC | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Chemicals | HVAC | New | unit (ton) | 165,984 | 7.7% | 3.31 | 15 | \$15,429 | 28% | 0.63 |
| DLC | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Chemicals | HVAC | ROB | unit (ton) | 165,984 | 7.7% | 3.31 | 15 | \$15,429 | 28% | 0.63 |
| DLC | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Chemicals | HVAC | Early | unit (ton) | 165,984 | 15% | 6.56 | 15 | \$41,054 | 29% | 0.47 |
| DLC | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Chemicals | HVAC | New | unit (ton) | 165,984 | 11% | 4.66 | 15 | \$23,533 | 29% | 0.58 |
| DLC | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Chemicals | HVAC | ROB | unit (ton) | 165,984 | 11% | 4.66 | 15 | \$23,533 | 29% | 0.58 |
| DLC | >760k min 10.2 EER Air Conditioner | Mfg: Chemicals | HVAC | Early | unit (ton) | 165,984 | 2.1% | 0.91 | 15 | \$52,654 | 35% | 0.05 |
| DLC | >760k min 10.2 EER Air Conditioner | Mfg: Chemicals | HVAC | New | unit (ton) | 165,984 | 2.8% | 1.22 | 15 | \$4,759 | 35% | 0.74 |
| DLC | >760k min 10.2 EER Air Conditioner | Mfg: Chemicals | HVAC | ROB | unit (ton) | 165,984 | 2.8% | 1.22 | 15 | \$4,759 | 35% | 0.74 |
| DLC | 135-240k min 12 EER Air Conditioner | Mfg: Chemicals | HVAC | Early | unit (ton) | 165,984 | 10% | 4.50 | 15 | \$57,016 | 35% | 0.24 |
| DLC | 135-240k min 12 EER Air Conditioner | Mfg: Chemicals | HVAC | New | unit (ton) | 165,984 | 5.8% | 2.48 | 15 | \$6,732 | 35% | 1.04 |
| DLC | 135-240k min 12 EER Air Conditioner | Mfg: Chemicals | HVAC | ROB | unit (ton) | 165,984 | 5.8% | 2.48 | 15 | \$6,732 | 35% | 1.04 |
| DLC | 240k-760k min 11 EER Air Conditioner | Mfg: Chemicals | HVAC | Early | unit (ton) | 165,984 | 5.2% | 2.24 | 15 | \$52,687 | 35% | 0.13 |
| DLC | 240k-760k min 11 EER Air Conditioner | Mfg: Chemicals | HVAC | New | unit (ton) | 165,984 | 5.3% | 2.30 | 15 | \$5,645 | 35% | 1.14 |
| DLC | 240k-760k min 11 EER Air Conditioner | Mfg: Chemicals | HVAC | ROB | unit (ton) | 165,984 | 5.3% | 2.30 | 15 | \$5,645 | 35% | 1.14 |
| DLC | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Chemicals | HVAC | Early | unit (ton) | 165,984 | 9.7% | 4.18 | 15 | \$58,380 | 35% | 0.22 |
| DLC | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Chemicals | HVAC | New | unit (ton) | 165,984 | 3.8% | 1.66 | 15 | \$8,329 | 35% | 0.58 |
| DLC | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Chemicals | HVAC | ROB | unit (ton) | 165,984 | 3.8% | 1.66 | 15 | \$8,329 | 35% | 0.58 |
| DLC | Ceiling Insualtions (Going upto R 20) | Mfg: Chemicals | HVAC | Existing | building | 165,984 | 5.9% | 2.47 | 15 | \$502,905 | 71% | 0.02 |
| DLC | Ceiling Insualtions (Going upto R 20) | Mfg: Chemicals | HVAC | New | building | 165,984 | 3.7% | 1.55 | 15 | \$478,025 | 94% | 0.01 |
| DLC | Chiller Tuneup/Diagnostics | Mfg: Chemicals | HVAC | Existing | building | 165,984 | 8.0% | 4.87 | 10 | \$423,831 | 59% | 0.02 |
| DLC | Chiller Tuneup/Diagnostics | Mfg: Chemicals | HVAC | New | building | 165,984 | 8.0% | 4.88 | 10 | \$423,831 | 59% | 0.02 |
| DLC | Cooling Tower Optimization | Mfg: Chemicals | HVAC | Existing | building | 165,984 | 20% | 11.88 | 10 | \$1,018 | 12% | 6.05 |
| DLC | Duct Insulation, Add R8 | Mfg: Chemicals | HVAC | Existing | building | 165,984 | 1.5% | 0.53 | 15 | \$1,319 | 18% | 1.30 |
| DLC | Duct Insulation, Add R8 | Mfg: Chemicals | HVAC | New | building | 165,984 | 1.5% | 0.53 | 15 | \$1,319 | 9% | 1.30 |
| DLC | Ductless Heat Pump | Mfg: Chemicals | HVAC | Early | heat pump | 165,984 | 0.8% | 0.31 | 15 | \$13,183 | 83% | 0.08 |
| DLC | Ductless Heat Pump | Mfg: Chemicals | HVAC | New | heat pump | 165,984 | 0.4% | 0.16 | 15 | \$3,828 | 83% | 0.15 |
| DLC | Ductless Heat Pump | Mfg: Chemicals | HVAC | ROB | heat pump | 165,984 | 0.4% | 0.16 | 15 | \$3,828 | 83% | 0.15 |
| DLC | DX Coil Cleaning | Mfg: Chemicals | HVAC | Existing | building | 165,984 | 13% | 7.61 | 1 | \$1,591 | 73% | 0.43 |
| DLC | DX Coil Cleaning | Mfg: Chemicals | HVAC | New | building | 165,984 | 13% | 7.61 | 1 | \$1,591 | 73% | 0.43 |
| DLC | Efficient Unit Heating System | Mfg: Chemicals | HVAC | Early | heater | 165,984 | 6.9% | 0.10 | 15 | \$8,941 | 83% | 0.68 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|----------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Efficient Unit Heating System | Mfg: Chemicals | HVAC | New | heater | 165,984 | 4.0% | 0.05 | 15 | \$6,099 | 83% | 0.58 |
| DLC | Efficient Unit Heating System | Mfg: Chemicals | HVAC | ROB | heater | 165,984 | 4.0% | 0.05 | 15 | \$6,099 | 83% | 0.58 |
| DLC | Ground Source Heat Pump (Closed Loop) | Mfg: Chemicals | HVAC | Early | heat pump | 165,984 | 1.3% | 0.48 | 15 | \$27,373 | 19% | 0.06 |
| DLC | Ground Source Heat Pump (Closed Loop) | Mfg: Chemicals | HVAC | New | heat pump | 165,984 | 1.0% | 0.38 | 15 | \$10,808 | 19% | 0.12 |
| DLC | Ground Source Heat Pump (Closed Loop) | Mfg: Chemicals | HVAC | ROB | heat pump | 165,984 | 1.0% | 0.38 | 15 | \$10,808 | 19% | 0.12 |
| DLC | Ground Source Heat Pump (Open Loop) | Mfg: Chemicals | HVAC | Early | heat pump | 165,984 | 1.3% | 0.48 | 15 | \$17,531 | 19% | 0.09 |
| DLC | Ground Source Heat Pump (Open Loop) | Mfg: Chemicals | HVAC | New | heat pump | 165,984 | 1.0% | 0.38 | 15 | \$372 | 19% | 2.67 |
| DLC | Ground Source Heat Pump (Open Loop) | Mfg: Chemicals | HVAC | ROB | heat pump | 165,984 | 1.0% | 0.38 | 15 | \$372 | 19% | 2.67 |
| DLC | HE Air Cooled Chiller, 100 Tons | Mfg: Chemicals | HVAC | Early | unit (ton) | 165,984 | 1.5% | 0.55 | 15 | \$195,140 | 89% | 0.01 |
| DLC | HE Air Cooled Chiller, 100 Tons | Mfg: Chemicals | HVAC | New | unit (ton) | 165,984 | 0.4% | 0.16 | 15 | \$28,428 | 89% | 0.02 |
| DLC | HE Air Cooled Chiller, 100 Tons | Mfg: Chemicals | HVAC | ROB | unit (ton) | 165,984 | 0.4% | 0.16 | 15 | \$28,428 | 89% | 0.02 |
| DLC | HE Air Cooled Chiller, 150 Tons | Mfg: Chemicals | HVAC | Early | unit (ton) | 165,984 | 1.5% | 0.54 | 15 | \$168,557 | 89% | 0.01 |
| DLC | HE Air Cooled Chiller, 150 Tons | Mfg: Chemicals | HVAC | New | unit (ton) | 165,984 | 0.3% | 0.11 | 15 | \$13,961 | 89% | 0.03 |
| DLC | HE Air Cooled Chiller, 150 Tons | Mfg: Chemicals | HVAC | ROB | unit (ton) | 165,984 | 0.3% | 0.11 | 15 | \$13,961 | 89% | 0.03 |
| DLC | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Chemicals | HVAC | Early | heat pump | 165,984 | 1.4% | 0.51 | 12 | \$7,146 | 81% | 0.20 |
| DLC | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Chemicals | HVAC | Early | heat pump | 165,984 | 1.1% | 0.42 | 12 | \$5,221 | 81% | 0.22 |
| DLC | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Chemicals | HVAC | New | heat pump | 165,984 | 1.0% | 0.38 | 12 | \$3,190 | 81% | 0.32 |
| DLC | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Chemicals | HVAC | New | heat pump | 165,984 | 0.8% | 0.28 | 12 | \$1,115 | 81% | 0.66 |
| DLC | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Chemicals | HVAC | ROB | heat pump | 165,984 | 1.0% | 0.38 | 12 | \$3,190 | 81% | 0.32 |
| DLC | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Chemicals | HVAC | ROB | heat pump | 165,984 | 0.8% | 0.28 | 12 | \$1,115 | 81% | 0.66 |
| DLC | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Chemicals | HVAC | Early | unit (ton) | 165,984 | 1.6% | 0.60 | 15 | \$15,483 | 89% | 0.13 |
| DLC | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Chemicals | HVAC | New | unit (ton) | 165,984 | 0.9% | 0.35 | 15 | \$5,150 | 89% | 0.23 |
| DLC | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Chemicals | HVAC | ROB | unit (ton) | 165,984 | 0.9% | 0.35 | 15 | \$5,150 | 89% | 0.23 |
| DLC | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Chemicals | HVAC | Early | unit (ton) | 165,984 | 1.4% | 0.53 | 15 | \$15,122 | 89% | 0.12 |
| DLC | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Chemicals | HVAC | New | unit (ton) | 165,984 | 1.0% | 0.37 | 15 | \$2,953 | 89% | 0.42 |
| DLC | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Chemicals | HVAC | ROB | unit (ton) | 165,984 | 1.4% | 0.53 | 15 | \$2,713 | 89% | 0.63 |
| DLC | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Chemicals | HVAC | Early | unit (ton) | 165,984 | 1.4% | 0.52 | 15 | \$17,897 | 89% | 0.10 |
| DLC | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Chemicals | HVAC | New | unit (ton) | 165,984 | 0.9% | 0.34 | 15 | \$7,535 | 89% | 0.15 |
| DLC | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Chemicals | HVAC | ROB | unit (ton) | 165,984 | 1.4% | 0.52 | 15 | \$6,820 | 89% | 0.26 |
| DLC | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Chemicals | HVAC | Early | unit (ton) | 165,984 | 1.4% | 0.52 | 15 | \$17,240 | 89% | 0.10 |
| DLC | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Chemicals | HVAC | New | unit (ton) | 165,984 | 0.9% | 0.34 | 15 | \$6,550 | 89% | 0.17 |
| DLC | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Chemicals | HVAC | ROB | unit (ton) | 165,984 | 1.4% | 0.52 | 15 | \$5,928 | 89% | 0.30 |
| DLC | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Chemicals | HVAC | Early | unit (ton) | 165,984 | 1.8% | 0.68 | 15 | \$18,576 | 89% | 0.12 |
| DLC | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Chemicals | HVAC | New | unit (ton) | 165,984 | 0.6% | 0.21 | 15 | \$11,503 | 89% | 0.06 |
| DLC | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Chemicals | HVAC | ROB | unit (ton) | 165,984 | 1.8% | 0.68 | 15 | \$8,932 | 89% | 0.26 |
| DLC | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Chemicals | HVAC | Early | unit (ton) | 165,984 | 2.2% | 0.81 | 15 | \$17,086 | 89% | 0.16 |
| DLC | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Chemicals | HVAC | New | unit (ton) | 165,984 | 0.8% | 0.29 | 15 | \$6,856 | 89% | 0.14 |
| DLC | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Chemicals | HVAC | ROB | unit (ton) | 165,984 | 0.8% | 0.29 | 15 | \$6,856 | 89% | 0.14 |
| DLC | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Chemicals | HVAC | Early | unit (ton) | 165,984 | 2.4% | 0.91 | 15 | \$14,481 | 89% | 0.21 |
| DLC | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Chemicals | HVAC | New | unit (ton) | 165,984 | 0.9% | 0.34 | 15 | \$3,644 | 89% | 0.31 |
| DLC | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Chemicals | HVAC | ROB | unit (ton) | 165,984 | 2.4% | 0.91 | 15 | \$2,598 | 89% | 1.08 |
| DLC | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Chemicals | HVAC | Early | unit (ton) | 165,984 | 1.8% | 0.69 | 15 | \$14,336 | 89% | 0.16 |
| DLC | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Chemicals | HVAC | New | unit (ton) | 165,984 | 0.7% | 0.26 | 15 | \$4,014 | 89% | 0.22 |
| DLC | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Chemicals | HVAC | ROB | unit (ton) | 165,984 | 1.8% | 0.69 | 15 | \$3,180 | 89% | 0.69 |
| DLC | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Chemicals | HVAC | Existing | building | 165,984 | 2.9% | 0.98 | 5 | \$1,761 | 55% | 0.55 |
| DLC | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Chemicals | HVAC | New | building | 165,984 | 0.6% | 0.39 | 5 | \$1,057 | 51% | 0.28 |
| DLC | Improved Controls - HVAC | Mfg: Chemicals | HVAC | Existing | end use | 165,984 | 21% | 4.98 | 10 | \$1,745 | 76% | 3.87 |
| DLC | Improved Controls - HVAC | Mfg: Chemicals | HVAC | New | end use | 165,984 | 21% | 4.98 | 10 | \$1,745 | 76% | 3.87 |
| DLC | Outside Air Economizer | Mfg: Chemicals | HVAC | Existing | building | 165,984 | 1.1% | 0.47 | 10 | \$609,856 | 82% | 0.00 |
| DLC | Outside Air Economizer | Mfg: Chemicals | HVAC | New | building | 165,984 | 1.1% | 0.47 | 10 | \$609,856 | 82% | 0.00 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---------------------------------------|----------------|----------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Recommissioning | Mfg: Chemicals | HVAC | Existing | end use | 165,984 | 5.0% | 1.19 | 10 | \$228 | 88% | 4.78 |
| DLC | Recommissioning | Mfg: Chemicals | HVAC | New | end use | 165,984 | 5.0% | 1.19 | 10 | \$228 | 88% | 4.78 |
| DLC | Room AC (with louvered sides) | Mfg: Chemicals | HVAC | Early | unit (ton) | 165,984 | 7.7% | 2.88 | 9 | \$13,010 | 78% | 0.43 |
| DLC | Room AC (with louvered sides) | Mfg: Chemicals | HVAC | New | unit (ton) | 165,984 | 2.6% | 0.96 | 9 | \$712 | 78% | 1.95 |
| DLC | Room AC (with louvered sides) | Mfg: Chemicals | HVAC | ROB | unit (ton) | 165,984 | 2.6% | 0.96 | 9 | \$712 | 78% | 1.95 |
| DLC | Variable Refrigerant Flow Heat Pump | Mfg: Chemicals | HVAC | New | measure | 165,984 | 0.1% | 0.04 | 13 | \$1,228 | 43% | 0.10 |
| DLC | Variable Refrigerant Flow Heat Pump | Mfg: Chemicals | HVAC | ROB | measure | 165,984 | 0.1% | 0.04 | 13 | \$1,228 | 43% | 0.10 |
| DLC | VFD on Cooling Tower Fan | Mfg: Chemicals | HVAC | Early | motor | 165,984 | 21% | 10.44 | 15 | \$7,648 | 15% | 2.92 |
| DLC | VFD on Cooling Tower Fan | Mfg: Chemicals | HVAC | New | motor | 165,984 | 22% | 10.44 | 15 | \$7,794 | 15% | 2.90 |
| DLC | VFD on Cooling Tower Fan | Mfg: Chemicals | HVAC | ROB | motor | 165,984 | 22% | 10.44 | 15 | \$7,794 | 15% | 2.90 |
| DLC | Wall Insualtions (Going upto R 21) | Mfg: Chemicals | HVAC | Existing | building | 165,984 | 19% | 7.94 | 15 | \$118,075 | 26% | 0.21 |
| DLC | Wall Insualtions (Going upto R 21) | Mfg: Chemicals | HVAC | New | building | 165,984 | 0.6% | 0.25 | 15 | \$90,569 | 94% | 0.01 |
| DLC | Water Source Heat Pump (4 ton) | Mfg: Chemicals | HVAC | Early | heat pump | 165,984 | 1.5% | 0.58 | 15 | \$28,346 | 28% | 0.07 |
| DLC | Water Source Heat Pump (4 ton) | Mfg: Chemicals | HVAC | New | heat pump | 165,984 | 1.1% | 0.42 | 15 | \$13,815 | 28% | 0.10 |
| DLC | Water Source Heat Pump (4 ton) | Mfg: Chemicals | HVAC | ROB | heat pump | 165,984 | 1.1% | 0.42 | 15 | \$13,815 | 28% | 0.10 |
| DLC | Efficient Metal Halide (High Bay) | Mfg: Chemicals | Lighting | Early | end use | 97,138 | 42% | 0.00 | 9 | \$15,179 | 53% | 0.73 |
| DLC | Efficient Metal Halide (High Bay) | Mfg: Chemicals | Lighting | New | end use | 97,138 | 41% | 0.00 | 13 | \$405,437 | 61% | 0.05 |
| DLC | Efficient Metal Halide (High Bay) | Mfg: Chemicals | Lighting | ROB | end use | 97,138 | 41% | 0.00 | 13 | \$309,858 | 61% | 0.06 |
| DLC | Induction (High Bay) | Mfg: Chemicals | Lighting | Early | end use | 97,138 | 94% | 0.00 | 13 | \$45,164 | 95% | 0.88 |
| DLC | Induction (High Bay) | Mfg: Chemicals | Lighting | New | end use | 97,138 | 94% | 0.00 | 13 | \$42,285 | 95% | 0.93 |
| DLC | Induction (High Bay) | Mfg: Chemicals | Lighting | ROB | end use | 97,138 | 94% | 0.00 | 13 | \$32,138 | 95% | 1.18 |
| DLC | LED (High Bay) | Mfg: Chemicals | Lighting | Early | end use | 97,138 | 69% | 0.00 | 14 | \$53,165 | 95% | 0.61 |
| DLC | LED (High Bay) | Mfg: Chemicals | Lighting | New | end use | 97,138 | 55% | 0.00 | 14 | \$59,012 | 95% | 0.45 |
| DLC | LED (High Bay) | Mfg: Chemicals | Lighting | ROB | end use | 97,138 | 59% | 0.00 | 14 | \$38,882 | 95% | 0.71 |
| DLC | Lighting Controls | Mfg: Chemicals | Lighting | Existing | end use | 97,138 | 20% | 0.00 | 6 | \$364,161 | 16% | 0.01 |
| DLC | Lighting Controls | Mfg: Chemicals | Lighting | New | end use | 97,138 | 12% | 0.00 | 10 | \$484,453 | 11% | 0.01 |
| DLC | Linear Fluorescent (High Bay) | Mfg: Chemicals | Lighting | Early | end use | 97,138 | 17% | 0.00 | 14 | \$11,115 | 98% | 0.71 |
| DLC | Linear Fluorescent (High Bay) | Mfg: Chemicals | Lighting | New | end use | 97,138 | 13% | 0.00 | 14 | \$3,525 | 91% | 1.50 |
| DLC | Linear Fluorescent (High Bay) | Mfg: Chemicals | Lighting | ROB | end use | 97,138 | 13% | 0.00 | 14 | \$2,257 | 91% | 2.16 |
| DLC | Metal Halide (High Bay) | Mfg: Chemicals | Lighting | Early | end use | 97,138 | 62% | 0.00 | 13 | \$66,776 | 38% | 0.42 |
| DLC | Metal Halide (High Bay) | Mfg: Chemicals | Lighting | New | end use | 97,138 | 73% | 0.00 | 13 | \$15,965 | 38% | 1.67 |
| DLC | Metal Halide (High Bay) | Mfg: Chemicals | Lighting | ROB | end use | 97,138 | 73% | 0.00 | 13 | \$12,134 | 38% | 2.05 |
| DLC | Screw Base CFL | Mfg: Chemicals | Lighting | Early | end use | 97,138 | 80% | 0.00 | 7 | \$26,390 | 17% | 0.54 |
| DLC | Screw Base CFL | Mfg: Chemicals | Lighting | New | end use | 97,138 | 73% | 0.00 | 9 | \$21,567 | 18% | 0.85 |
| DLC | Screw Base CFL | Mfg: Chemicals | Lighting | ROB | end use | 97,138 | 73% | 0.00 | 9 | \$18,052 | 17% | 0.98 |
| DLC | Screw Base LED | Mfg: Chemicals | Lighting | Early | end use | 97,138 | 76% | 0.00 | 9 | \$16,196 | 21% | 1.17 |
| DLC | Screw Base LED | Mfg: Chemicals | Lighting | New | end use | 97,138 | 77% | 0.00 | 9 | \$9,022 | 20% | 1.79 |
| DLC | Screw Base LED | Mfg: Chemicals | Lighting | ROB | end use | 97,138 | 77% | 0.00 | 9 | \$7,162 | 21% | 2.05 |
| DLC | T8 High Performance Linear Florescent | Mfg: Chemicals | Lighting | Early | end use | 97,138 | 36% | 0.00 | 14 | \$9,295 | 71% | 1.59 |
| DLC | T8 High Performance Linear Florescent | Mfg: Chemicals | Lighting | New | end use | 97,138 | 26% | 0.00 | 14 | \$3,326 | 76% | 2.67 |
| DLC | T8 High Performance Linear Florescent | Mfg: Chemicals | Lighting | ROB | end use | 97,138 | 26% | 0.00 | 14 | \$2,528 | 76% | 3.16 |
| DLC | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Chemicals | Motors | Early | end use | 131,038 | 0.9% | 0.17 | 15 | \$2,002 | 81% | 0.40 |
| DLC | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Chemicals | Motors | New | end use | 131,038 | 0.9% | 0.17 | 15 | \$2,002 | 81% | 0.40 |
| DLC | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Chemicals | Motors | ROB | end use | 131,038 | 0.9% | 0.17 | 15 | \$2,002 | 81% | 0.40 |
| DLC | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Chemicals | Motors | Early | end use | 131,038 | 0.8% | 0.14 | 15 | \$1,216 | 73% | 0.54 |
| DLC | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Chemicals | Motors | New | end use | 131,038 | 0.7% | 0.14 | 15 | \$1,216 | 73% | 0.53 |
| DLC | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Chemicals | Motors | ROB | end use | 131,038 | 0.8% | 0.14 | 15 | \$1,216 | 73% | 0.53 |
| DLC | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Chemicals | Motors | Early | end use | 131,038 | 0.4% | 0.08 | 15 | \$466 | 81% | 0.80 |
| DLC | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Chemicals | Motors | New | end use | 131,038 | 0.4% | 0.08 | 15 | \$466 | 81% | 0.81 |
| DLC | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Chemicals | Motors | ROB | end use | 131,038 | 0.4% | 0.08 | 15 | \$466 | 81% | 0.80 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|----------------|------------------------|----------|---------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Chemicals | Motors | Early | end use | 131,038 | 0.4% | 0.07 | 15 | \$154 | 73% | 1.88 |
| DLC | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Chemicals | Motors | New | end use | 131,038 | 0.4% | 0.07 | 15 | \$154 | 73% | 1.94 |
| DLC | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Chemicals | Motors | ROB | end use | 131,038 | 0.4% | 0.07 | 15 | \$154 | 73% | 1.88 |
| DLC | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Chemicals | Motors | Early | end use | 131,038 | 0.9% | 0.17 | 15 | \$230 | 47% | 2.66 |
| DLC | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Chemicals | Motors | New | end use | 131,038 | 0.9% | 0.17 | 15 | \$230 | 47% | 2.67 |
| DLC | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Chemicals | Motors | ROB | end use | 131,038 | 0.9% | 0.17 | 15 | \$230 | 47% | 2.66 |
| DLC | Facility Energy Management | Mfg: Chemicals | Motors | Existing | end use | 131,038 | 1.8% | 0.34 | 2 | \$50 | 77% | 1.02 |
| DLC | Facility Energy Management | Mfg: Chemicals | Motors | New | end use | 131,038 | 1.8% | 0.34 | 2 | \$50 | 77% | 1.02 |
| DLC | HE Motors | Mfg: Chemicals | Motors | Early | end use | 131,038 | 2.0% | 0.38 | 15 | \$780 | 38% | 1.93 |
| DLC | HE Motors | Mfg: Chemicals | Motors | New | end use | 131,038 | 2.0% | 0.38 | 15 | \$780 | 38% | 1.93 |
| DLC | HE Motors | Mfg: Chemicals | Motors | ROB | end use | 131,038 | 2.0% | 0.38 | 15 | \$780 | 38% | 1.93 |
| DLC | High-Efficiency Ventilation System | Mfg: Chemicals | Motors | Early | end use | 131,038 | 5.7% | 1.06 | 10 | \$8,189 | 73% | 0.40 |
| DLC | High-Efficiency Ventilation System | Mfg: Chemicals | Motors | New | end use | 131,038 | 5.7% | 1.06 | 10 | \$8,189 | 73% | 0.40 |
| DLC | High-Efficiency Ventilation System | Mfg: Chemicals | Motors | ROB | end use | 131,038 | 5.7% | 1.06 | 10 | \$8,189 | 73% | 0.39 |
| DLC | Improved Controls - Motors | Mfg: Chemicals | Motors | Existing | end use | 131,038 | 4.0% | 0.74 | 10 | \$570 | 73% | 2.57 |
| DLC | Improved Controls - Motors | Mfg: Chemicals | Motors | New | end use | 131,038 | 4.0% | 0.74 | 10 | \$570 | 73% | 2.57 |
| DLC | Motor Management Plan | Mfg: Chemicals | Motors | Existing | end use | 131,038 | 2.9% | 0.54 | 10 | \$267 | 73% | 3.29 |
| DLC | Motor Management Plan | Mfg: Chemicals | Motors | New | end use | 131,038 | 2.9% | 0.54 | 10 | \$267 | 73% | 3.29 |
| DLC | Motors Other | Mfg: Chemicals | Motors | Existing | end use | 131,038 | 1.1% | 0.20 | 15 | \$26 | 83% | 7.86 |
| DLC | Motors Other | Mfg: Chemicals | Motors | New | end use | 131,038 | 1.1% | 0.20 | 15 | \$26 | 83% | 7.86 |
| DLC | Motors: Rewind 101-200 HP | Mfg: Chemicals | Motors | Existing | end use | 131,038 | 0.6% | 0.10 | 10 | \$166 | 27% | 1.55 |
| DLC | Motors: Rewind 101-200 HP | Mfg: Chemicals | Motors | New | end use | 131,038 | 0.6% | 0.10 | 10 | \$166 | 27% | 1.55 |
| DLC | Motors: Rewind 201-500 HP | Mfg: Chemicals | Motors | Existing | end use | 131,038 | 0.5% | 0.10 | 8 | \$104 | 27% | 1.64 |
| DLC | Motors: Rewind 201-500 HP | Mfg: Chemicals | Motors | New | end use | 131,038 | 0.5% | 0.10 | 8 | \$104 | 27% | 1.64 |
| DLC | Motors: Rewind 20-50 HP | Mfg: Chemicals | Motors | Existing | end use | 131,038 | 1.0% | 0.19 | 11 | \$486 | 42% | 1.22 |
| DLC | Motors: Rewind 20-50 HP | Mfg: Chemicals | Motors | New | end use | 131,038 | 1.0% | 0.19 | 11 | \$486 | 42% | 1.22 |
| DLC | Motors: Rewind 500+ HP | Mfg: Chemicals | Motors | Existing | end use | 131,038 | 0.6% | 0.10 | 8 | \$74 | 11% | 2.06 |
| DLC | Motors: Rewind 500+ HP | Mfg: Chemicals | Motors | New | end use | 131,038 | 0.6% | 0.10 | 8 | \$74 | 11% | 2.06 |
| DLC | Motors: Rewind 51-100 HP | Mfg: Chemicals | Motors | Existing | end use | 131,038 | 0.6% | 0.11 | 9 | \$240 | 42% | 1.09 |
| DLC | Motors: Rewind 51-100 HP | Mfg: Chemicals | Motors | New | end use | 131,038 | 0.6% | 0.11 | 9 | \$240 | 42% | 1.09 |
| DLC | Switch from Belt drive to Direct Drive | Mfg: Chemicals | Motors | Early | end use | 131,038 | 7.5% | 1.40 | 12 | \$2,102 | 30% | 1.98 |
| DLC | Switch from Belt drive to Direct Drive | Mfg: Chemicals | Motors | New | end use | 131,038 | 7.5% | 1.40 | 12 | \$2,102 | 30% | 1.99 |
| DLC | Switch from Belt drive to Direct Drive | Mfg: Chemicals | Motors | ROB | end use | 131,038 | 7.5% | 1.40 | 12 | \$2,102 | 30% | 1.99 |
| DLC | Synchronous Belts | Mfg: Chemicals | Motors | Early | end use | 131,038 | 1.2% | 0.22 | 10 | \$193 | 30% | 2.36 |
| DLC | Synchronous Belts | Mfg: Chemicals | Motors | New | end use | 131,038 | 1.2% | 0.22 | 10 | \$193 | 30% | 2.36 |
| DLC | Synchronous Belts | Mfg: Chemicals | Motors | ROB | end use | 131,038 | 1.2% | 0.22 | 10 | \$193 | 30% | 2.36 |
| DLC | Bldg Improvements | Mfg: Chemicals | Other | Existing | end use | 44,621 | 16% | 0.86 | 15 | \$973 | 72% | 3.29 |
| DLC | Bldg Improvements | Mfg: Chemicals | Other | New | end use | 44,621 | 16% | 0.86 | 15 | \$973 | 72% | 3.29 |
| DLC | Energy Project Management | Mfg: Chemicals | Other | Existing | end use | 44,621 | 29% | 1.54 | 11 | \$1,593 | 63% | 2.57 |
| DLC | Energy Project Management | Mfg: Chemicals | Other | New | end use | 44,621 | 29% | 1.54 | 11 | \$1,593 | 63% | 2.57 |
| DLC | Facility Energy Management | Mfg: Chemicals | Other | Existing | end use | 44,621 | 1.8% | 0.10 | 2 | \$17 | 76% | 0.99 |
| DLC | Facility Energy Management | Mfg: Chemicals | Other | New | end use | 44,621 | 1.8% | 0.10 | 2 | \$17 | 76% | 0.99 |
| DLC | Integrated Plant Energy Management | Mfg: Chemicals | Other | Existing | end use | 44,621 | 50% | 2.66 | 11 | \$4,398 | 48% | 1.86 |
| DLC | Integrated Plant Energy Management | Mfg: Chemicals | Other | New | end use | 44,621 | 50% | 2.66 | 11 | \$4,398 | 48% | 1.86 |
| DLC | Plant Energy Management | Mfg: Chemicals | Other | Existing | end use | 44,621 | 12% | 0.64 | 10 | \$112 | 55% | 4.91 |
| DLC | Plant Energy Management | Mfg: Chemicals | Other | New | end use | 44,621 | 12% | 0.64 | 10 | \$112 | 55% | 4.91 |
| DLC | Transformers | Mfg: Chemicals | Other | Early | end use | 44,621 | 1.6% | 0.08 | 15 | \$143 | 34% | 2.52 |
| DLC | Transformers | Mfg: Chemicals | Other | New | end use | 44,621 | 1.6% | 0.08 | 15 | \$143 | 34% | 2.51 |
| DLC | Transformers | Mfg: Chemicals | Other | ROB | end use | 44,621 | 1.6% | 0.08 | 15 | \$143 | 34% | 2.52 |
| DLC | Air Compressor Demand Reduction | Mfg: Chemicals | Process Air Compressor | Existing | end use | 1,577 | 26% | 0.05 | 10 | \$24 | 52% | 3.54 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---------------------------------------|----------------|------------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Air Compressor Demand Reduction | Mfg: Chemicals | Process Air Compressor | New | end use | 1,577 | 26% | 0.05 | 10 | \$24 | 52% | 3.54 |
| DLC | Facility Energy Management | Mfg: Chemicals | Process Air Compressor | Existing | end use | 1,577 | 1.8% | 0.00 | 2 | \$0.6 | 66% | 1.00 |
| DLC | Facility Energy Management | Mfg: Chemicals | Process Air Compressor | New | end use | 1,577 | 1.8% | 0.00 | 2 | \$0.6 | 66% | 1.00 |
| DLC | HE Compressor motors | Mfg: Chemicals | Process Air Compressor | Early | end use | 1,577 | 1.1% | 0.00 | 15 | \$5.9 | 73% | 1.68 |
| DLC | HE Compressor motors | Mfg: Chemicals | Process Air Compressor | New | end use | 1,577 | 1.1% | 0.00 | 15 | \$5.9 | 73% | 1.66 |
| DLC | HE Compressor motors | Mfg: Chemicals | Process Air Compressor | ROB | end use | 1,577 | 1.1% | 0.00 | 15 | \$5.9 | 73% | 1.66 |
| DLC | Improved Controls - Air Compressor | Mfg: Chemicals | Process Air Compressor | Existing | end use | 1,577 | 41% | 0.08 | 10 | \$28 | 25% | 3.98 |
| DLC | Improved Controls - Air Compressor | Mfg: Chemicals | Process Air Compressor | New | end use | 1,577 | 41% | 0.08 | 10 | \$28 | 25% | 3.98 |
| DLC | Low Pressure-drop Filters | Mfg: Chemicals | Process Air Compressor | Existing | end use | 1,577 | 1.8% | 0.00 | 10 | \$18 | 61% | 0.66 |
| DLC | Low Pressure-drop Filters | Mfg: Chemicals | Process Air Compressor | New | end use | 1,577 | 1.8% | 0.00 | 10 | \$18 | 61% | 0.66 |
| DLC | Outside Air Intake | Mfg: Chemicals | Process Air Compressor | Existing | end use | 1,577 | 1.4% | 0.00 | 10 | \$10 | 48% | 0.86 |
| DLC | Outside Air Intake | Mfg: Chemicals | Process Air Compressor | New | end use | 1,577 | 1.4% | 0.00 | 10 | \$10 | 48% | 0.86 |
| DLC | Receiver Capacity Addition | Mfg: Chemicals | Process Air Compressor | Existing | end use | 1,577 | 5.9% | 0.01 | 10 | \$29 | 36% | 1.19 |
| DLC | Receiver Capacity Addition | Mfg: Chemicals | Process Air Compressor | New | end use | 1,577 | 5.9% | 0.01 | 10 | \$29 | 36% | 1.19 |
| DLC | Refrigerated Cycling Dryers | Mfg: Chemicals | Process Air Compressor | Early | end use | 1,577 | 1.7% | 0.00 | 10 | \$3.6 | 21% | 2.20 |
| DLC | Refrigerated Cycling Dryers | Mfg: Chemicals | Process Air Compressor | New | end use | 1,577 | 1.7% | 0.00 | 10 | \$3.6 | 21% | 2.19 |
| DLC | Refrigerated Cycling Dryers | Mfg: Chemicals | Process Air Compressor | ROB | end use | 1,577 | 1.7% | 0.00 | 10 | \$3.6 | 21% | 2.19 |
| DLC | VFD Controlled Compressor | Mfg: Chemicals | Process Air Compressor | Early | end use | 1,577 | 24% | 0.05 | 10 | \$155 | 28% | 0.94 |
| DLC | VFD Controlled Compressor | Mfg: Chemicals | Process Air Compressor | New | end use | 1,577 | 24% | 0.05 | 10 | \$155 | 28% | 0.94 |
| DLC | VFD Controlled Compressor | Mfg: Chemicals | Process Air Compressor | ROB | end use | 1,577 | 24% | 0.05 | 10 | \$155 | 28% | 0.94 |
| DLC | Zero Loss Condensate Drain | Mfg: Chemicals | Process Air Compressor | Early | end use | 1,577 | 1.9% | 0.00 | 10 | \$9.0 | 36% | 1.20 |
| DLC | Zero Loss Condensate Drain | Mfg: Chemicals | Process Air Compressor | New | end use | 1,577 | 1.9% | 0.00 | 10 | \$9.0 | 36% | 1.20 |
| DLC | Zero Loss Condensate Drain | Mfg: Chemicals | Process Air Compressor | ROB | end use | 1,577 | 1.8% | 0.00 | 10 | \$9.0 | 36% | 1.19 |
| DLC | Clean Room: Change Filter Strategy | Mfg: Chemicals | Process Cooling | Existing | end use | 129,177 | 40% | 10.77 | 1 | \$335 | 13% | 0.70 |
| DLC | Clean Room: Change Filter Strategy | Mfg: Chemicals | Process Cooling | New | end use | 129,177 | 40% | 10.77 | 1 | \$335 | 13% | 0.70 |
| DLC | Clean Room: Chiller Optimize | Mfg: Chemicals | Process Cooling | Existing | end use | 129,177 | 15% | 3.99 | 10 | \$1,559 | 21% | 3.36 |
| DLC | Clean Room: Chiller Optimize | Mfg: Chemicals | Process Cooling | New | end use | 129,177 | 15% | 3.99 | 10 | \$1,559 | 21% | 3.36 |
| DLC | Clean Room: Clean Room HVAC | Mfg: Chemicals | Process Cooling | Existing | end use | 129,177 | 9.0% | 2.42 | 15 | \$1,882 | 31% | 3.27 |
| DLC | Clean Room: Clean Room HVAC | Mfg: Chemicals | Process Cooling | New | end use | 129,177 | 9.0% | 2.42 | 15 | \$1,882 | 31% | 3.27 |
| DLC | Cooling Tower Optimization | Mfg: Chemicals | Process Cooling | Existing | building | 129,177 | 20% | 9.25 | 10 | \$792 | 15% | 6.01 |
| DLC | Equipment: Chillers | Mfg: Chemicals | Process Cooling | Early | end use | 129,177 | 18% | 4.81 | 15 | \$6,063 | 39% | 2.28 |
| DLC | Equipment: Chillers | Mfg: Chemicals | Process Cooling | New | end use | 129,177 | 18% | 4.81 | 15 | \$6,063 | 39% | 2.28 |
| DLC | Equipment: Chillers | Mfg: Chemicals | Process Cooling | ROB | end use | 129,177 | 18% | 4.81 | 15 | \$6,063 | 39% | 2.28 |
| DLC | Facility Energy Management | Mfg: Chemicals | Process Cooling | Existing | end use | 129,177 | 1.8% | 0.50 | 2 | \$50 | 50% | 1.14 |
| DLC | Facility Energy Management | Mfg: Chemicals | Process Cooling | New | end use | 129,177 | 1.8% | 0.50 | 2 | \$50 | 50% | 1.14 |
| DLC | Improved Controls - Process Cooling | Mfg: Chemicals | Process Cooling | Existing | end use | 129,177 | 6.0% | 1.62 | 10 | \$6,821 | 47% | 0.54 |
| DLC | Improved Controls - Process Cooling | Mfg: Chemicals | Process Cooling | New | end use | 129,177 | 6.0% | 1.62 | 10 | \$6,821 | 47% | 0.54 |
| DLC | VFD on Cooling Tower Fan | Mfg: Chemicals | Process Cooling | Early | motor | 129,177 | 21% | 8.13 | 15 | \$5,951 | 20% | 2.91 |
| DLC | VFD on Cooling Tower Fan | Mfg: Chemicals | Process Cooling | New | motor | 129,177 | 22% | 8.13 | 15 | \$6,065 | 20% | 2.89 |
| DLC | VFD on Cooling Tower Fan | Mfg: Chemicals | Process Cooling | ROB | motor | 129,177 | 22% | 8.13 | 15 | \$6,065 | 20% | 2.89 |
| DLC | Improved Controls - Process Heating | Mfg: Chemicals | Process Heating | Existing | end use | 98,155 | 17% | 2.31 | 10 | \$1,128 | 77% | 3.32 |
| DLC | Improved Controls - Process Heating | Mfg: Chemicals | Process Heating | New | end use | 98,155 | 17% | 2.31 | 10 | \$1,128 | 77% | 3.32 |
| DLC | Process Heat O&M | Mfg: Chemicals | Process Heating | Existing | end use | 98,155 | 16% | 2.18 | 2 | \$682 | 77% | 0.80 |
| DLC | Process Heat O&M | Mfg: Chemicals | Process Heating | New | end use | 98,155 | 16% | 2.18 | 2 | \$682 | 77% | 0.80 |
| DLC | Facility Energy Management | Mfg: Chemicals | Process Other | Existing | end use | 398,202 | 1.8% | 1.03 | 2 | \$153 | 73% | 1.02 |
| DLC | Facility Energy Management | Mfg: Chemicals | Process Other | New | end use | 398,202 | 1.8% | 1.03 | 2 | \$153 | 73% | 1.02 |
| DLC | Adjustable speed drive on compressors | Mfg: Chemicals | Process Refrigeration | Early | end use | 66,357 | 12% | 1.14 | 10 | \$1,227 | 77% | 2.03 |
| DLC | Adjustable speed drive on compressors | Mfg: Chemicals | Process Refrigeration | New | end use | 66,357 | 12% | 1.14 | 10 | \$1,227 | 77% | 2.03 |
| DLC | Adjustable speed drive on compressors | Mfg: Chemicals | Process Refrigeration | ROB | end use | 66,357 | 12% | 1.14 | 10 | \$1,227 | 77% | 2.03 |
| DLC | Cooling Tower Optimization | Mfg: Chemicals | Process Refrigeration | Existing | building | 66,357 | 20% | 4.75 | 10 | \$407 | 15% | 6.01 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--------------------------------------|------------------|-----------------------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Optimization of operating parameters | Mfg: Chemicals | Process Refrigeration | Existing | end use | 66,357 | 13% | 1.27 | 3 | \$536 | 69% | 1.03 |
| DLC | Optimization of operating parameters | Mfg: Chemicals | Process Refrigeration | New | end use | 66,357 | 13% | 1.27 | 3 | \$536 | 69% | 1.03 |
| DLC | Synchronous Belts | Mfg: Chemicals | Process Refrigeration | Early | end use | 66,357 | 1.2% | 0.11 | 10 | \$98 | 77% | 2.36 |
| DLC | Synchronous Belts | Mfg: Chemicals | Process Refrigeration | New | end use | 66,357 | 1.2% | 0.11 | 10 | \$98 | 77% | 2.36 |
| DLC | Synchronous Belts | Mfg: Chemicals | Process Refrigeration | ROB | end use | 66,357 | 1.2% | 0.11 | 10 | \$98 | 77% | 2.36 |
| DLC | VFD on Cooling Tower Fan | Mfg: Chemicals | Process Refrigeration | Early | motor | 66,357 | 21% | 4.18 | 15 | \$3,057 | 20% | 2.91 |
| DLC | VFD on Cooling Tower Fan | Mfg: Chemicals | Process Refrigeration | New | motor | 66,357 | 22% | 4.18 | 15 | \$3,116 | 20% | 2.89 |
| DLC | VFD on Cooling Tower Fan | Mfg: Chemicals | Process Refrigeration | ROB | motor | 66,357 | 22% | 4.18 | 15 | \$3,116 | 20% | 2.89 |
| DLC | Facility Energy Management | Mfg: Chemicals | Pumps | Existing | end use | 734,541 | 1.8% | 1.76 | 2 | \$283 | 69% | 1.02 |
| DLC | Facility Energy Management | Mfg: Chemicals | Pumps | New | end use | 734,541 | 1.8% | 1.76 | 2 | \$283 | 69% | 1.02 |
| DLC | HE Motors | Mfg: Chemicals | Pumps | Early | end use | 734,541 | 2.0% | 1.96 | 15 | \$4,373 | 73% | 1.90 |
| DLC | HE Motors | Mfg: Chemicals | Pumps | New | end use | 734,541 | 2.0% | 1.96 | 15 | \$4,373 | 73% | 1.90 |
| DLC | HE Motors | Mfg: Chemicals | Pumps | ROB | end use | 734,541 | 2.0% | 1.96 | 15 | \$4,373 | 73% | 1.90 |
| DLC | Motor rewinds | Mfg: Chemicals | Pumps | Existing | end use | 734,541 | 0.6% | 0.57 | 9 | \$1,045 | 11% | 1.30 |
| DLC | Motor rewinds | Mfg: Chemicals | Pumps | New | end use | 734,541 | 0.6% | 0.57 | 9 | \$1,045 | 11% | 1.30 |
| DLC | Pump Equipment Upgrade | Mfg: Chemicals | Pumps | Early | end use | 734,541 | 20% | 19.11 | 12 | \$18,364 | 81% | 2.84 |
| DLC | Pump Equipment Upgrade | Mfg: Chemicals | Pumps | New | end use | 734,541 | 20% | 19.11 | 12 | \$18,364 | 81% | 2.84 |
| DLC | Pump Equipment Upgrade | Mfg: Chemicals | Pumps | ROB | end use | 734,541 | 20% | 19.11 | 12 | \$18,364 | 81% | 2.84 |
| DLC | Pump System Optimization | Mfg: Chemicals | Pumps | Existing | end use | 734,541 | 8.7% | 8.31 | 12 | \$13,449 | 38% | 1.97 |
| DLC | Pump System Optimization | Mfg: Chemicals | Pumps | New | end use | 734,541 | 8.7% | 8.31 | 12 | \$13,449 | 38% | 1.97 |
| DLC | Synchronous Belts | Mfg: Chemicals | Pumps | Early | end use | 734,541 | 1.2% | 1.11 | 10 | \$1,082 | 61% | 2.32 |
| DLC | Synchronous Belts | Mfg: Chemicals | Pumps | New | end use | 734,541 | 1.2% | 1.11 | 10 | \$1,082 | 61% | 2.32 |
| DLC | Synchronous Belts | Mfg: Chemicals | Pumps | ROB | end use | 734,541 | 1.2% | 1.11 | 10 | \$1,082 | 61% | 2.32 |
| DLC | Circulating Fans | Mfg: Comp & Elec | Fans | Early | end use | 116,037 | 5.0% | 0.69 | 10 | \$706 | 68% | 2.34 |
| DLC | Circulating Fans | Mfg: Comp & Elec | Fans | New | end use | 116,037 | 5.0% | 0.69 | 10 | \$706 | 68% | 2.34 |
| DLC | Circulating Fans | Mfg: Comp & Elec | Fans | ROB | end use | 116,037 | 5.0% | 0.69 | 10 | \$706 | 68% | 2.34 |
| DLC | Facility Energy Management | Mfg: Comp & Elec | Fans | Existing | end use | 116,037 | 1.8% | 0.25 | 2 | \$45 | 77% | 1.00 |
| DLC | Facility Energy Management | Mfg: Comp & Elec | Fans | New | end use | 116,037 | 1.8% | 0.25 | 2 | \$45 | 77% | 1.00 |
| DLC | HE Motors | Mfg: Comp & Elec | Fans | Early | end use | 116,037 | 2.0% | 0.28 | 15 | \$691 | 77% | 1.87 |
| DLC | HE Motors | Mfg: Comp & Elec | Fans | New | end use | 116,037 | 2.0% | 0.28 | 15 | \$691 | 77% | 1.87 |
| DLC | HE Motors | Mfg: Comp & Elec | Fans | ROB | end use | 116,037 | 2.0% | 0.28 | 15 | \$691 | 77% | 1.87 |
| DLC | Improved Controls - Fans | Mfg: Comp & Elec | Fans | Existing | end use | 116,037 | 7.1% | 0.98 | 10 | \$450 | 88% | 3.59 |
| DLC | Improved Controls - Fans | Mfg: Comp & Elec | Fans | New | end use | 116,037 | 7.1% | 0.98 | 10 | \$450 | 88% | 3.59 |
| DLC | Properly Sized Fans | Mfg: Comp & Elec | Fans | Early | end use | 116,037 | 13% | 1.82 | 10 | \$2,377 | 41% | 1.99 |
| DLC | Properly Sized Fans | Mfg: Comp & Elec | Fans | New | end use | 116,037 | 13% | 1.82 | 10 | \$2,377 | 41% | 1.99 |
| DLC | Properly Sized Fans | Mfg: Comp & Elec | Fans | ROB | end use | 116,037 | 13% | 1.82 | 10 | \$2,377 | 41% | 1.99 |
| DLC | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 451,552 | 9.2% | 10.74 | 15 | \$82,256 | 28% | 0.39 |
| DLC | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Comp & Elec | HVAC | New | unit (ton) | 451,552 | 4.1% | 4.83 | 15 | \$19,929 | 28% | 0.70 |
| DLC | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 451,552 | 4.1% | 4.83 | 15 | \$19,929 | 28% | 0.70 |
| DLC | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 451,552 | 12% | 14.53 | 15 | \$96,971 | 28% | 0.45 |
| DLC | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Comp & Elec | HVAC | New | unit (ton) | 451,552 | 7.7% | 9.01 | 15 | \$41,975 | 28% | 0.63 |
| DLC | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 451,552 | 7.7% | 9.01 | 15 | \$41,975 | 28% | 0.63 |
| DLC | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 451,552 | 15% | 17.85 | 15 | \$111,686 | 29% | 0.47 |
| DLC | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Comp & Elec | HVAC | New | unit (ton) | 451,552 | 11% | 12.67 | 15 | \$64,020 | 29% | 0.58 |
| DLC | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 451,552 | 11% | 12.67 | 15 | \$64,020 | 29% | 0.58 |
| DLC | >760k min 10.2 EER Air Conditioner | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 451,552 | 2.1% | 2.49 | 15 | \$143,243 | 35% | 0.05 |
| DLC | >760k min 10.2 EER Air Conditioner | Mfg: Comp & Elec | HVAC | New | unit (ton) | 451,552 | 2.8% | 3.31 | 15 | \$12,946 | 35% | 0.74 |
| DLC | >760k min 10.2 EER Air Conditioner | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 451,552 | 2.8% | 3.31 | 15 | \$12,946 | 35% | 0.74 |
| DLC | 135-240k min 12 EER Air Conditioner | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 451,552 | 10% | 12.25 | 15 | \$155,109 | 35% | 0.24 |
| DLC | 135-240k min 12 EER Air Conditioner | Mfg: Comp & Elec | HVAC | New | unit (ton) | 451,552 | 5.8% | 6.76 | 15 | \$18,315 | 35% | 1.04 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|------------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | 135-240k min 12 EER Air Conditioner | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 451,552 | 5.8% | 6.76 | 15 | \$18,315 | 35% | 1.04 |
| DLC | 240k-760k min 11 EER Air Conditioner | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 451,552 | 5.2% | 6.10 | 15 | \$143,333 | 35% | 0.13 |
| DLC | 240k-760k min 11 EER Air Conditioner | Mfg: Comp & Elec | HVAC | New | unit (ton) | 451,552 | 5.3% | 6.26 | 15 | \$15,356 | 35% | 1.14 |
| DLC | 240k-760k min 11 EER Air Conditioner | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 451,552 | 5.3% | 6.26 | 15 | \$15,356 | 35% | 1.14 |
| DLC | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 451,552 | 9.7% | 11.36 | 15 | \$158,819 | 35% | 0.22 |
| DLC | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Comp & Elec | HVAC | New | unit (ton) | 451,552 | 3.8% | 4.50 | 15 | \$22,659 | 35% | 0.58 |
| DLC | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 451,552 | 3.8% | 4.50 | 15 | \$22,659 | 35% | 0.58 |
| DLC | Ceiling Insualtions (Going upto R 20) | Mfg: Comp & Elec | HVAC | Existing | building | 451,552 | 5.9% | 6.71 | 15 | \$1,368,129 | 71% | 0.02 |
| DLC | Ceiling Insualtions (Going upto R 20) | Mfg: Comp & Elec | HVAC | New | building | 451,552 | 3.7% | 4.21 | 15 | \$1,300,445 | 94% | 0.01 |
| DLC | Chiller Tuneup/Diagnostics | Mfg: Comp & Elec | HVAC | Existing | building | 451,552 | 8.0% | 13.25 | 10 | \$1,153,013 | 59% | 0.02 |
| DLC | Chiller Tuneup/Diagnostics | Mfg: Comp & Elec | HVAC | New | building | 451,552 | 8.0% | 13.27 | 10 | \$1,153,013 | 59% | 0.02 |
| DLC | Cooling Tower Optimization | Mfg: Comp & Elec | HVAC | Existing | building | 451,552 | 20% | 32.32 | 10 | \$2,769 | 12% | 6.05 |
| DLC | Duct Insulation, Add R8 | Mfg: Comp & Elec | HVAC | Existing | building | 451,552 | 1.5% | 1.45 | 15 | \$3,587 | 18% | 1.30 |
| DLC | Duct Insulation, Add R8 | Mfg: Comp & Elec | HVAC | New | building | 451,552 | 1.5% | 1.44 | 15 | \$3,587 | 9% | 1.30 |
| DLC | Ductless Heat Pump | Mfg: Comp & Elec | HVAC | Early | heat pump | 451,552 | 0.8% | 0.85 | 15 | \$35,864 | 83% | 0.08 |
| DLC | Ductless Heat Pump | Mfg: Comp & Elec | HVAC | New | heat pump | 451,552 | 0.4% | 0.45 | 15 | \$10,415 | 83% | 0.15 |
| DLC | Ductless Heat Pump | Mfg: Comp & Elec | HVAC | ROB | heat pump | 451,552 | 0.4% | 0.45 | 15 | \$10,415 | 83% | 0.15 |
| DLC | DX Coil Cleaning | Mfg: Comp & Elec | HVAC | Existing | building | 451,552 | 13% | 20.71 | 1 | \$4,328 | 73% | 0.43 |
| DLC | DX Coil Cleaning | Mfg: Comp & Elec | HVAC | New | building | 451,552 | 13% | 20.71 | 1 | \$4,328 | 73% | 0.43 |
| DLC | Efficient Unit Heating System | Mfg: Comp & Elec | HVAC | Early | heater | 451,552 | 6.9% | 0.26 | 15 | \$24,324 | 83% | 0.68 |
| DLC | Efficient Unit Heating System | Mfg: Comp & Elec | HVAC | New | heater | 451,552 | 4.0% | 0.15 | 15 | \$16,591 | 83% | 0.58 |
| DLC | Efficient Unit Heating System | Mfg: Comp & Elec | HVAC | ROB | heater | 451,552 | 4.0% | 0.15 | 15 | \$16,591 | 83% | 0.58 |
| DLC | Ground Source Heat Pump (Closed Loop) | Mfg: Comp & Elec | HVAC | Early | heat pump | 451,552 | 1.3% | 1.32 | 15 | \$74,468 | 19% | 0.06 |
| DLC | Ground Source Heat Pump (Closed Loop) | Mfg: Comp & Elec | HVAC | New | heat pump | 451,552 | 1.0% | 1.04 | 15 | \$29,403 | 19% | 0.12 |
| DLC | Ground Source Heat Pump (Closed Loop) | Mfg: Comp & Elec | HVAC | ROB | heat pump | 451,552 | 1.0% | 1.04 | 15 | \$29,403 | 19% | 0.12 |
| DLC | Ground Source Heat Pump (Open Loop) | Mfg: Comp & Elec | HVAC | Early | heat pump | 451,552 | 1.3% | 1.32 | 15 | \$47,693 | 19% | 0.09 |
| DLC | Ground Source Heat Pump (Open Loop) | Mfg: Comp & Elec | HVAC | New | heat pump | 451,552 | 1.0% | 1.04 | 15 | \$1,011 | 19% | 2.67 |
| DLC | Ground Source Heat Pump (Open Loop) | Mfg: Comp & Elec | HVAC | ROB | heat pump | 451,552 | 1.0% | 1.04 | 15 | \$1,011 | 19% | 2.67 |
| DLC | HE Air Cooled Chiller, 100 Tons | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 451,552 | 1.5% | 1.50 | 15 | \$530,869 | 89% | 0.01 |
| DLC | HE Air Cooled Chiller, 100 Tons | Mfg: Comp & Elec | HVAC | New | unit (ton) | 451,552 | 0.4% | 0.42 | 15 | \$77,338 | 89% | 0.02 |
| DLC | HE Air Cooled Chiller, 100 Tons | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 451,552 | 0.4% | 0.42 | 15 | \$77,338 | 89% | 0.02 |
| DLC | HE Air Cooled Chiller, 150 Tons | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 451,552 | 1.5% | 1.48 | 15 | \$458,552 | 89% | 0.01 |
| DLC | HE Air Cooled Chiller, 150 Tons | Mfg: Comp & Elec | HVAC | New | unit (ton) | 451,552 | 0.3% | 0.31 | 15 | \$37,980 | 89% | 0.03 |
| DLC | HE Air Cooled Chiller, 150 Tons | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 451,552 | 0.3% | 0.31 | 15 | \$37,980 | 89% | 0.03 |
| DLC | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Comp & Elec | HVAC | Early | heat pump | 451,552 | 1.4% | 1.39 | 12 | \$19,439 | 81% | 0.20 |
| DLC | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Comp & Elec | HVAC | Early | heat pump | 451,552 | 1.1% | 1.15 | 12 | \$14,202 | 81% | 0.22 |
| DLC | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Comp & Elec | HVAC | New | heat pump | 451,552 | 1.0% | 1.03 | 12 | \$8,679 | 81% | 0.32 |
| DLC | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Comp & Elec | HVAC | New | heat pump | 451,552 | 0.8% | 0.77 | 12 | \$3,034 | 81% | 0.66 |
| DLC | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Comp & Elec | HVAC | ROB | heat pump | 451,552 | 1.0% | 1.03 | 12 | \$8,679 | 81% | 0.32 |
| DLC | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Comp & Elec | HVAC | ROB | heat pump | 451,552 | 0.8% | 0.77 | 12 | \$3,034 | 81% | 0.66 |
| DLC | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 451,552 | 1.6% | 1.63 | 15 | \$42,121 | 89% | 0.13 |
| DLC | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Comp & Elec | HVAC | New | unit (ton) | 451,552 | 0.9% | 0.94 | 15 | \$14,009 | 89% | 0.23 |
| DLC | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 451,552 | 0.9% | 0.94 | 15 | \$14,009 | 89% | 0.23 |
| DLC | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 451,552 | 1.4% | 1.44 | 15 | \$41,138 | 89% | 0.12 |
| DLC | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Comp & Elec | HVAC | New | unit (ton) | 451,552 | 1.0% | 1.01 | 15 | \$8,034 | 89% | 0.42 |
| DLC | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 451,552 | 1.4% | 1.44 | 15 | \$7,380 | 89% | 0.63 |
| DLC | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 451,552 | 1.4% | 1.43 | 15 | \$48,689 | 89% | 0.10 |
| DLC | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Comp & Elec | HVAC | New | unit (ton) | 451,552 | 0.9% | 0.91 | 15 | \$20,499 | 89% | 0.15 |
| DLC | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 451,552 | 1.4% | 1.43 | 15 | \$18,553 | 89% | 0.26 |
| DLC | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 451,552 | 1.4% | 1.43 | 15 | \$46,900 | 89% | 0.10 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|------------------|----------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Comp & Elec | HVAC | New | unit (ton) | 451,552 | 0.9% | 0.91 | 15 | \$17,819 | 89% | 0.17 |
| DLC | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 451,552 | 1.4% | 1.43 | 15 | \$16,127 | 89% | 0.30 |
| DLC | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 451,552 | 1.8% | 1.85 | 15 | \$50,536 | 89% | 0.12 |
| DLC | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Comp & Elec | HVAC | New | unit (ton) | 451,552 | 0.6% | 0.56 | 15 | \$31,293 | 89% | 0.06 |
| DLC | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 451,552 | 1.8% | 1.85 | 15 | \$24,298 | 89% | 0.26 |
| DLC | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 451,552 | 2.2% | 2.20 | 15 | \$46,483 | 89% | 0.16 |
| DLC | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Comp & Elec | HVAC | New | unit (ton) | 451,552 | 0.8% | 0.79 | 15 | \$18,652 | 89% | 0.14 |
| DLC | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 451,552 | 0.8% | 0.79 | 15 | \$18,652 | 89% | 0.14 |
| DLC | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 451,552 | 2.4% | 2.47 | 15 | \$39,396 | 89% | 0.21 |
| DLC | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Comp & Elec | HVAC | New | unit (ton) | 451,552 | 0.9% | 0.92 | 15 | \$9,913 | 89% | 0.31 |
| DLC | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 451,552 | 2.4% | 2.47 | 15 | \$7,068 | 89% | 1.08 |
| DLC | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 451,552 | 1.8% | 1.87 | 15 | \$38,999 | 89% | 0.16 |
| DLC | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Comp & Elec | HVAC | New | unit (ton) | 451,552 | 0.7% | 0.70 | 15 | \$10,921 | 89% | 0.22 |
| DLC | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 451,552 | 1.8% | 1.87 | 15 | \$8,652 | 89% | 0.69 |
| DLC | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Comp & Elec | HVAC | Existing | building | 451,552 | 2.9% | 2.66 | 5 | \$4,791 | 55% | 0.55 |
| DLC | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Comp & Elec | HVAC | New | building | 451,552 | 0.6% | 1.05 | 5 | \$2,874 | 51% | 0.28 |
| DLC | Improved Controls - HVAC | Mfg: Comp & Elec | HVAC | Existing | end use | 451,552 | 21% | 13.54 | 10 | \$4,747 | 76% | 3.87 |
| DLC | Improved Controls - HVAC | Mfg: Comp & Elec | HVAC | New | end use | 451,552 | 21% | 13.54 | 10 | \$4,747 | 76% | 3.87 |
| DLC | Outside Air Economizer | Mfg: Comp & Elec | HVAC | Existing | building | 451,552 | 1.1% | 1.27 | 10 | \$1,659,085 | 82% | 0.00 |
| DLC | Outside Air Economizer | Mfg: Comp & Elec | HVAC | New | building | 451,552 | 1.1% | 1.27 | 10 | \$1,659,085 | 82% | 0.00 |
| DLC | Recommissioning | Mfg: Comp & Elec | HVAC | Existing | end use | 451,552 | 5.0% | 3.24 | 10 | \$619 | 88% | 4.78 |
| DLC | Recommissioning | Mfg: Comp & Elec | HVAC | New | end use | 451,552 | 5.0% | 3.24 | 10 | \$619 | 88% | 4.78 |
| DLC | Room AC (with louvered sides) | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 451,552 | 7.7% | 7.84 | 9 | \$35,392 | 78% | 0.43 |
| DLC | Room AC (with louvered sides) | Mfg: Comp & Elec | HVAC | New | unit (ton) | 451,552 | 2.6% | 2.61 | 9 | \$1,938 | 78% | 1.95 |
| DLC | Room AC (with louvered sides) | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 451,552 | 2.6% | 2.61 | 9 | \$1,938 | 78% | 1.95 |
| DLC | Variable Refrigerant Flow Heat Pump | Mfg: Comp & Elec | HVAC | New | measure | 451,552 | 0.1% | 0.12 | 13 | \$3,340 | 43% | 0.10 |
| DLC | Variable Refrigerant Flow Heat Pump | Mfg: Comp & Elec | HVAC | ROB | measure | 451,552 | 0.1% | 0.12 | 13 | \$3,340 | 43% | 0.10 |
| DLC | VFD on Cooling Tower Fan | Mfg: Comp & Elec | HVAC | Early | motor | 451,552 | 21% | 28.41 | 15 | \$20,805 | 15% | 2.92 |
| DLC | VFD on Cooling Tower Fan | Mfg: Comp & Elec | HVAC | New | motor | 451,552 | 22% | 28.41 | 15 | \$21,202 | 15% | 2.90 |
| DLC | VFD on Cooling Tower Fan | Mfg: Comp & Elec | HVAC | ROB | motor | 451,552 | 22% | 28.41 | 15 | \$21,202 | 15% | 2.90 |
| DLC | Wall Insualtions (Going upto R 21) | Mfg: Comp & Elec | HVAC | Existing | building | 451,552 | 19% | 21.59 | 15 | \$321,218 | 26% | 0.21 |
| DLC | Wall Insualtions (Going upto R 21) | Mfg: Comp & Elec | HVAC | New | building | 451,552 | 0.6% | 0.69 | 15 | \$246,390 | 94% | 0.01 |
| DLC | Water Source Heat Pump (4 ton) | Mfg: Comp & Elec | HVAC | Early | heat pump | 451,552 | 1.5% | 1.57 | 15 | \$77,115 | 28% | 0.07 |
| DLC | Water Source Heat Pump (4 ton) | Mfg: Comp & Elec | HVAC | New | heat pump | 451,552 | 1.1% | 1.15 | 15 | \$37,584 | 28% | 0.10 |
| DLC | Water Source Heat Pump (4 ton) | Mfg: Comp & Elec | HVAC | ROB | heat pump | 451,552 | 1.1% | 1.15 | 15 | \$37,584 | 28% | 0.10 |
| DLC | Efficient Metal Halide (High Bay) | Mfg: Comp & Elec | Lighting | Early | end use | 185,090 | 42% | 0.00 | 9 | \$28,923 | 53% | 0.73 |
| DLC | Efficient Metal Halide (High Bay) | Mfg: Comp & Elec | Lighting | New | end use | 185,090 | 41% | 0.00 | 13 | \$772,531 | 61% | 0.05 |
| DLC | Efficient Metal Halide (High Bay) | Mfg: Comp & Elec | Lighting | ROB | end use | 185,090 | 41% | 0.00 | 13 | \$590,411 | 61% | 0.06 |
| DLC | Induction (High Bay) | Mfg: Comp & Elec | Lighting | Early | end use | 185,090 | 94% | 0.00 | 13 | \$86,057 | 95% | 0.88 |
| DLC | Induction (High Bay) | Mfg: Comp & Elec | Lighting | New | end use | 185,090 | 94% | 0.00 | 13 | \$80,571 | 95% | 0.93 |
| DLC | Induction (High Bay) | Mfg: Comp & Elec | Lighting | ROB | end use | 185,090 | 94% | 0.00 | 13 | \$61,237 | 95% | 1.18 |
| DLC | LED (High Bay) | Mfg: Comp & Elec | Lighting | Early | end use | 185,090 | 69% | 0.00 | 14 | \$101,302 | 95% | 0.61 |
| DLC | LED (High Bay) | Mfg: Comp & Elec | Lighting | New | end use | 185,090 | 55% | 0.00 | 14 | \$112,442 | 95% | 0.45 |
| DLC | LED (High Bay) | Mfg: Comp & Elec | Lighting | ROB | end use | 185,090 | 59% | 0.00 | 14 | \$74,086 | 95% | 0.71 |
| DLC | Lighting Controls | Mfg: Comp & Elec | Lighting | Existing | end use | 185,090 | 20% | 0.00 | 6 | \$693,882 | 16% | 0.01 |
| DLC | Lighting Controls | Mfg: Comp & Elec | Lighting | New | end use | 185,090 | 12% | 0.00 | 10 | \$923,089 | 11% | 0.01 |
| DLC | Linear Fluorescent (High Bay) | Mfg: Comp & Elec | Lighting | Early | end use | 185,090 | 17% | 0.00 | 14 | \$21,178 | 98% | 0.71 |
| DLC | Linear Fluorescent (High Bay) | Mfg: Comp & Elec | Lighting | New | end use | 185,090 | 13% | 0.00 | 14 | \$6,716 | 91% | 1.50 |
| DLC | Linear Fluorescent (High Bay) | Mfg: Comp & Elec | Lighting | ROB | end use | 185,090 | 13% | 0.00 | 14 | \$4,300 | 91% | 2.16 |
| DLC | Metal Halide (High Bay) | Mfg: Comp & Elec | Lighting | Early | end use | 185,090 | 62% | 0.00 | 13 | \$127,238 | 38% | 0.42 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---------------------------------------|------------------|----------|----------|---------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Metal Halide (High Bay) | Mfg: Comp & Elec | Lighting | New | end use | 185,090 | 73% | 0.00 | 13 | \$30,421 | 38% | 1.67 |
| DLC | Metal Halide (High Bay) | Mfg: Comp & Elec | Lighting | ROB | end use | 185,090 | 73% | 0.00 | 13 | \$23,120 | 38% | 2.05 |
| DLC | Screw Base CFL | Mfg: Comp & Elec | Lighting | Early | end use | 185,090 | 80% | 0.00 | 7 | \$50,285 | 17% | 0.54 |
| DLC | Screw Base CFL | Mfg: Comp & Elec | Lighting | New | end use | 185,090 | 73% | 0.00 | 9 | \$41,095 | 18% | 0.85 |
| DLC | Screw Base CFL | Mfg: Comp & Elec | Lighting | ROB | end use | 185,090 | 73% | 0.00 | 9 | \$34,396 | 17% | 0.98 |
| DLC | Screw Base LED | Mfg: Comp & Elec | Lighting | Early | end use | 185,090 | 76% | 0.00 | 9 | \$30,860 | 21% | 1.17 |
| DLC | Screw Base LED | Mfg: Comp & Elec | Lighting | New | end use | 185,090 | 77% | 0.00 | 9 | \$17,191 | 20% | 1.79 |
| DLC | Screw Base LED | Mfg: Comp & Elec | Lighting | ROB | end use | 185,090 | 77% | 0.00 | 9 | \$13,647 | 21% | 2.05 |
| DLC | T8 High Performance Linear Florescent | Mfg: Comp & Elec | Lighting | Early | end use | 185,090 | 36% | 0.00 | 14 | \$17,712 | 71% | 1.59 |
| DLC | T8 High Performance Linear Florescent | Mfg: Comp & Elec | Lighting | New | end use | 185,090 | 26% | 0.00 | 14 | \$6,337 | 76% | 2.67 |
| DLC | T8 High Performance Linear Florescent | Mfg: Comp & Elec | Lighting | ROB | end use | 185,090 | 26% | 0.00 | 14 | \$4,816 | 76% | 3.16 |
| DLC | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Comp & Elec | Motors | Early | end use | 36,635 | 0.9% | 0.05 | 15 | \$560 | 81% | 0.40 |
| DLC | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Comp & Elec | Motors | New | end use | 36,635 | 0.9% | 0.05 | 15 | \$560 | 81% | 0.40 |
| DLC | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Comp & Elec | Motors | ROB | end use | 36,635 | 0.9% | 0.05 | 15 | \$560 | 81% | 0.40 |
| DLC | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Comp & Elec | Motors | Early | end use | 36,635 | 0.8% | 0.04 | 15 | \$340 | 73% | 0.53 |
| DLC | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Comp & Elec | Motors | New | end use | 36,635 | 0.8% | 0.04 | 15 | \$340 | 73% | 0.54 |
| DLC | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Comp & Elec | Motors | ROB | end use | 36,635 | 0.7% | 0.04 | 15 | \$340 | 73% | 0.53 |
| DLC | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Comp & Elec | Motors | Early | end use | 36,635 | 0.5% | 0.02 | 15 | \$130 | 81% | 0.83 |
| DLC | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Comp & Elec | Motors | New | end use | 36,635 | 0.5% | 0.02 | 15 | \$130 | 81% | 0.81 |
| DLC | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Comp & Elec | Motors | ROB | end use | 36,635 | 0.5% | 0.02 | 15 | \$130 | 81% | 0.82 |
| DLC | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Comp & Elec | Motors | Early | end use | 36,635 | 0.4% | 0.02 | 15 | \$43 | 73% | 1.92 |
| DLC | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Comp & Elec | Motors | New | end use | 36,635 | 0.4% | 0.02 | 15 | \$43 | 73% | 1.93 |
| DLC | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Comp & Elec | Motors | ROB | end use | 36,635 | 0.4% | 0.02 | 15 | \$43 | 73% | 1.94 |
| DLC | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Comp & Elec | Motors | Early | end use | 36,635 | 0.9% | 0.05 | 15 | \$64 | 47% | 2.67 |
| DLC | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Comp & Elec | Motors | New | end use | 36,635 | 0.9% | 0.05 | 15 | \$64 | 47% | 2.66 |
| DLC | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Comp & Elec | Motors | ROB | end use | 36,635 | 0.9% | 0.05 | 15 | \$64 | 47% | 2.69 |
| DLC | Facility Energy Management | Mfg: Comp & Elec | Motors | Existing | end use | 36,635 | 1.8% | 0.10 | 2 | \$14 | 77% | 1.02 |
| DLC | Facility Energy Management | Mfg: Comp & Elec | Motors | New | end use | 36,635 | 1.8% | 0.10 | 2 | \$14 | 77% | 1.02 |
| DLC | HE Motors | Mfg: Comp & Elec | Motors | Early | end use | 36,635 | 2.0% | 0.11 | 15 | \$218 | 38% | 1.93 |
| DLC | HE Motors | Mfg: Comp & Elec | Motors | New | end use | 36,635 | 2.0% | 0.11 | 15 | \$218 | 38% | 1.93 |
| DLC | HE Motors | Mfg: Comp & Elec | Motors | ROB | end use | 36,635 | 2.0% | 0.11 | 15 | \$218 | 38% | 1.93 |
| DLC | High-Efficiency Ventilation System | Mfg: Comp & Elec | Motors | Early | end use | 36,635 | 5.7% | 0.30 | 10 | \$2,289 | 73% | 0.40 |
| DLC | High-Efficiency Ventilation System | Mfg: Comp & Elec | Motors | New | end use | 36,635 | 5.7% | 0.30 | 10 | \$2,289 | 73% | 0.40 |
| DLC | High-Efficiency Ventilation System | Mfg: Comp & Elec | Motors | ROB | end use | 36,635 | 5.7% | 0.30 | 10 | \$2,289 | 73% | 0.40 |
| DLC | Improved Controls - Motors | Mfg: Comp & Elec | Motors | Existing | end use | 36,635 | 4.0% | 0.21 | 10 | \$159 | 73% | 2.57 |
| DLC | Improved Controls - Motors | Mfg: Comp & Elec | Motors | New | end use | 36,635 | 4.0% | 0.21 | 10 | \$159 | 73% | 2.57 |
| DLC | Motor Management Plan | Mfg: Comp & Elec | Motors | Existing | end use | 36,635 | 2.9% | 0.15 | 10 | \$75 | 73% | 3.29 |
| DLC | Motor Management Plan | Mfg: Comp & Elec | Motors | New | end use | 36,635 | 2.9% | 0.15 | 10 | \$75 | 73% | 3.29 |
| DLC | Motors Other | Mfg: Comp & Elec | Motors | Existing | end use | 36,635 | 1.1% | 0.06 | 15 | \$7.3 | 83% | 7.86 |
| DLC | Motors Other | Mfg: Comp & Elec | Motors | New | end use | 36,635 | 1.1% | 0.06 | 15 | \$7.3 | 83% | 7.86 |
| DLC | Motors: Rewind 101-200 HP | Mfg: Comp & Elec | Motors | Existing | end use | 36,635 | 0.6% | 0.03 | 10 | \$46 | 27% | 1.55 |
| DLC | Motors: Rewind 101-200 HP | Mfg: Comp & Elec | Motors | New | end use | 36,635 | 0.6% | 0.03 | 10 | \$46 | 27% | 1.55 |
| DLC | Motors: Rewind 201-500 HP | Mfg: Comp & Elec | Motors | Existing | end use | 36,635 | 0.5% | 0.03 | 8 | \$29 | 27% | 1.64 |
| DLC | Motors: Rewind 201-500 HP | Mfg: Comp & Elec | Motors | New | end use | 36,635 | 0.5% | 0.03 | 8 | \$29 | 27% | 1.64 |
| DLC | Motors: Rewind 20-50 HP | Mfg: Comp & Elec | Motors | Existing | end use | 36,635 | 1.0% | 0.05 | 11 | \$136 | 42% | 1.22 |
| DLC | Motors: Rewind 20-50 HP | Mfg: Comp & Elec | Motors | New | end use | 36,635 | 1.0% | 0.05 | 11 | \$136 | 42% | 1.22 |
| DLC | Motors: Rewind 500+ HP | Mfg: Comp & Elec | Motors | Existing | end use | 36,635 | 0.6% | 0.03 | 8 | \$21 | 11% | 2.06 |
| DLC | Motors: Rewind 500+ HP | Mfg: Comp & Elec | Motors | New | end use | 36,635 | 0.6% | 0.03 | 8 | \$21 | 11% | 2.06 |
| DLC | Motors: Rewind 51-100 HP | Mfg: Comp & Elec | Motors | Existing | end use | 36,635 | 0.6% | 0.03 | 9 | \$67 | 42% | 1.09 |
| DLC | Motors: Rewind 51-100 HP | Mfg: Comp & Elec | Motors | New | end use | 36,635 | 0.6% | 0.03 | 9 | \$67 | 42% | 1.09 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|------------------|------------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Switch from Belt drive to Direct Drive | Mfg: Comp & Elec | Motors | Early | end use | 36,635 | 7.5% | 0.39 | 12 | \$588 | 30% | 1.98 |
| DLC | Switch from Belt drive to Direct Drive | Mfg: Comp & Elec | Motors | New | end use | 36,635 | 7.5% | 0.39 | 12 | \$588 | 30% | 1.98 |
| DLC | Switch from Belt drive to Direct Drive | Mfg: Comp & Elec | Motors | ROB | end use | 36,635 | 7.5% | 0.39 | 12 | \$588 | 30% | 1.98 |
| DLC | Bldg Improvements | Mfg: Comp & Elec | Other | Existing | end use | 106,932 | 16% | 2.06 | 15 | \$2,331 | 72% | 3.29 |
| DLC | Bldg Improvements | Mfg: Comp & Elec | Other | New | end use | 106,932 | 16% | 2.06 | 15 | \$2,331 | 72% | 3.29 |
| DLC | Energy Project Management | Mfg: Comp & Elec | Other | Existing | end use | 106,932 | 29% | 3.69 | 11 | \$3,817 | 63% | 2.57 |
| DLC | Energy Project Management | Mfg: Comp & Elec | Other | New | end use | 106,932 | 29% | 3.69 | 11 | \$3,817 | 63% | 2.57 |
| DLC | Facility Energy Management | Mfg: Comp & Elec | Other | Existing | end use | 106,932 | 1.8% | 0.23 | 2 | \$41 | 76% | 0.99 |
| DLC | Facility Energy Management | Mfg: Comp & Elec | Other | New | end use | 106,932 | 1.8% | 0.23 | 2 | \$41 | 76% | 0.99 |
| DLC | Integrated Plant Energy Management | Mfg: Comp & Elec | Other | Existing | end use | 106,932 | 50% | 6.36 | 11 | \$10,540 | 48% | 1.86 |
| DLC | Integrated Plant Energy Management | Mfg: Comp & Elec | Other | New | end use | 106,932 | 50% | 6.36 | 11 | \$10,540 | 48% | 1.86 |
| DLC | Plant Energy Management | Mfg: Comp & Elec | Other | Existing | end use | 106,932 | 12% | 1.53 | 10 | \$269 | 55% | 4.91 |
| DLC | Plant Energy Management | Mfg: Comp & Elec | Other | New | end use | 106,932 | 12% | 1.53 | 10 | \$269 | 55% | 4.91 |
| DLC | Transformers | Mfg: Comp & Elec | Other | Early | end use | 106,932 | 1.6% | 0.20 | 15 | \$342 | 34% | 2.51 |
| DLC | Transformers | Mfg: Comp & Elec | Other | New | end use | 106,932 | 1.6% | 0.20 | 15 | \$342 | 34% | 2.50 |
| DLC | Transformers | Mfg: Comp & Elec | Other | ROB | end use | 106,932 | 1.6% | 0.20 | 15 | \$342 | 34% | 2.51 |
| DLC | Air Compressor Demand Reduction | Mfg: Comp & Elec | Process Air Compressor | Existing | end use | 7,192 | 26% | 0.24 | 10 | \$108 | 52% | 3.54 |
| DLC | Air Compressor Demand Reduction | Mfg: Comp & Elec | Process Air Compressor | New | end use | 7,192 | 26% | 0.24 | 10 | \$108 | 52% | 3.54 |
| DLC | Facility Energy Management | Mfg: Comp & Elec | Process Air Compressor | Existing | end use | 7,192 | 1.8% | 0.02 | 2 | \$2.8 | 66% | 1.00 |
| DLC | Facility Energy Management | Mfg: Comp & Elec | Process Air Compressor | New | end use | 7,192 | 1.8% | 0.02 | 2 | \$2.8 | 66% | 1.00 |
| DLC | HE Compressor motors | Mfg: Comp & Elec | Process Air Compressor | Early | end use | 7,192 | 1.1% | 0.01 | 15 | \$27 | 73% | 1.66 |
| DLC | HE Compressor motors | Mfg: Comp & Elec | Process Air Compressor | New | end use | 7,192 | 1.1% | 0.01 | 15 | \$27 | 73% | 1.67 |
| DLC | HE Compressor motors | Mfg: Comp & Elec | Process Air Compressor | ROB | end use | 7,192 | 1.1% | 0.01 | 15 | \$27 | 73% | 1.66 |
| DLC | Improved Controls - Air Compressor | Mfg: Comp & Elec | Process Air Compressor | Existing | end use | 7,192 | 41% | 0.38 | 10 | \$128 | 25% | 3.98 |
| DLC | Improved Controls - Air Compressor | Mfg: Comp & Elec | Process Air Compressor | New | end use | 7,192 | 41% | 0.38 | 10 | \$128 | 25% | 3.98 |
| DLC | Low Pressure-drop Filters | Mfg: Comp & Elec | Process Air Compressor | Existing | end use | 7,192 | 1.8% | 0.02 | 10 | \$82 | 61% | 0.66 |
| DLC | Low Pressure-drop Filters | Mfg: Comp & Elec | Process Air Compressor | New | end use | 7,192 | 1.8% | 0.02 | 10 | \$82 | 61% | 0.66 |
| DLC | Outside Air Intake | Mfg: Comp & Elec | Process Air Compressor | Existing | end use | 7,192 | 1.4% | 0.01 | 10 | \$47 | 48% | 0.86 |
| DLC | Outside Air Intake | Mfg: Comp & Elec | Process Air Compressor | New | end use | 7,192 | 1.4% | 0.01 | 10 | \$47 | 48% | 0.86 |
| DLC | Receiver Capacity Addition | Mfg: Comp & Elec | Process Air Compressor | Existing | end use | 7,192 | 5.9% | 0.06 | 10 | \$134 | 36% | 1.19 |
| DLC | Receiver Capacity Addition | Mfg: Comp & Elec | Process Air Compressor | New | end use | 7,192 | 5.9% | 0.06 | 10 | \$134 | 36% | 1.19 |
| DLC | Refrigerated Cycling Dryers | Mfg: Comp & Elec | Process Air Compressor | Early | end use | 7,192 | 1.7% | 0.02 | 10 | \$17 | 21% | 2.20 |
| DLC | Refrigerated Cycling Dryers | Mfg: Comp & Elec | Process Air Compressor | New | end use | 7,192 | 1.7% | 0.02 | 10 | \$17 | 21% | 2.19 |
| DLC | Refrigerated Cycling Dryers | Mfg: Comp & Elec | Process Air Compressor | ROB | end use | 7,192 | 1.7% | 0.02 | 10 | \$17 | 21% | 2.18 |
| DLC | VFD Controlled Compressor | Mfg: Comp & Elec | Process Air Compressor | Early | end use | 7,192 | 24% | 0.22 | 10 | \$708 | 28% | 0.94 |
| DLC | VFD Controlled Compressor | Mfg: Comp & Elec | Process Air Compressor | New | end use | 7,192 | 24% | 0.22 | 10 | \$708 | 28% | 0.94 |
| DLC | VFD Controlled Compressor | Mfg: Comp & Elec | Process Air Compressor | ROB | end use | 7,192 | 24% | 0.22 | 10 | \$708 | 28% | 0.94 |
| DLC | Zero Loss Condensate Drain | Mfg: Comp & Elec | Process Air Compressor | Early | end use | 7,192 | 1.8% | 0.02 | 10 | \$41 | 36% | 1.20 |
| DLC | Zero Loss Condensate Drain | Mfg: Comp & Elec | Process Air Compressor | New | end use | 7,192 | 1.8% | 0.02 | 10 | \$41 | 36% | 1.20 |
| DLC | Zero Loss Condensate Drain | Mfg: Comp & Elec | Process Air Compressor | ROB | end use | 7,192 | 1.8% | 0.02 | 10 | \$41 | 36% | 1.20 |
| DLC | Clean Room: Change Filter Strategy | Mfg: Comp & Elec | Process Cooling | Existing | end use | 74,678 | 40% | 6.23 | 1 | \$194 | 13% | 0.70 |
| DLC | Clean Room: Change Filter Strategy | Mfg: Comp & Elec | Process Cooling | New | end use | 74,678 | 40% | 6.23 | 1 | \$194 | 13% | 0.70 |
| DLC | Clean Room: Chiller Optimize | Mfg: Comp & Elec | Process Cooling | Existing | end use | 74,678 | 15% | 2.31 | 10 | \$901 | 21% | 3.36 |
| DLC | Clean Room: Chiller Optimize | Mfg: Comp & Elec | Process Cooling | New | end use | 74,678 | 15% | 2.31 | 10 | \$901 | 21% | 3.36 |
| DLC | Clean Room: Clean Room HVAC | Mfg: Comp & Elec | Process Cooling | Existing | end use | 74,678 | 9.0% | 1.40 | 15 | \$1,088 | 31% | 3.27 |
| DLC | Clean Room: Clean Room HVAC | Mfg: Comp & Elec | Process Cooling | New | end use | 74,678 | 9.0% | 1.40 | 15 | \$1,088 | 31% | 3.27 |
| DLC | Cooling Tower Optimization | Mfg: Comp & Elec | Process Cooling | Existing | building | 74,678 | 20% | 5.35 | 10 | \$458 | 15% | 6.01 |
| DLC | Elec Chip Fab: Solidstate Chiller | Mfg: Comp & Elec | Process Cooling | Early | end use | 74,678 | 90% | 14.01 | 10 | \$34,178 | 42% | 0.88 |
| DLC | Elec Chip Fab: Solidstate Chiller | Mfg: Comp & Elec | Process Cooling | New | end use | 74,678 | 90% | 14.01 | 10 | \$34,178 | 42% | 0.88 |
| DLC | Elec Chip Fab: Solidstate Chiller | Mfg: Comp & Elec | Process Cooling | ROB | end use | 74,678 | 90% | 14.01 | 10 | \$34,178 | 42% | 0.88 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---------------------------------------|------------------|-----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Equipment: Chillers | Mfg: Comp & Elec | Process Cooling | Early | end use | 74,678 | 18% | 2.78 | 15 | \$3,505 | 39% | 2.28 |
| DLC | Equipment: Chillers | Mfg: Comp & Elec | Process Cooling | New | end use | 74,678 | 18% | 2.78 | 15 | \$3,505 | 39% | 2.28 |
| DLC | Equipment: Chillers | Mfg: Comp & Elec | Process Cooling | ROB | end use | 74,678 | 18% | 2.78 | 15 | \$3,505 | 39% | 2.28 |
| DLC | Facility Energy Management | Mfg: Comp & Elec | Process Cooling | Existing | end use | 74,678 | 1.8% | 0.29 | 2 | \$29 | 50% | 1.14 |
| DLC | Facility Energy Management | Mfg: Comp & Elec | Process Cooling | New | end use | 74,678 | 1.8% | 0.29 | 2 | \$29 | 50% | 1.14 |
| DLC | Improved Controls - Process Cooling | Mfg: Comp & Elec | Process Cooling | Existing | end use | 74,678 | 6.0% | 0.93 | 10 | \$3,943 | 47% | 0.54 |
| DLC | Improved Controls - Process Cooling | Mfg: Comp & Elec | Process Cooling | New | end use | 74,678 | 6.0% | 0.93 | 10 | \$3,943 | 47% | 0.54 |
| DLC | VFD on Cooling Tower Fan | Mfg: Comp & Elec | Process Cooling | Early | motor | 74,678 | 21% | 4.70 | 15 | \$3,441 | 20% | 2.91 |
| DLC | VFD on Cooling Tower Fan | Mfg: Comp & Elec | Process Cooling | New | motor | 74,678 | 22% | 4.70 | 15 | \$3,506 | 20% | 2.89 |
| DLC | VFD on Cooling Tower Fan | Mfg: Comp & Elec | Process Cooling | ROB | motor | 74,678 | 22% | 4.70 | 15 | \$3,506 | 20% | 2.89 |
| DLC | Improved Controls - Process Heating | Mfg: Comp & Elec | Process Heating | Existing | end use | 189,645 | 17% | 4.46 | 10 | \$2,179 | 77% | 3.32 |
| DLC | Improved Controls - Process Heating | Mfg: Comp & Elec | Process Heating | New | end use | 189,645 | 17% | 4.46 | 10 | \$2,179 | 77% | 3.32 |
| DLC | Process Heat O&M | Mfg: Comp & Elec | Process Heating | Existing | end use | 189,645 | 16% | 4.21 | 2 | \$1,317 | 77% | 0.80 |
| DLC | Process Heat O&M | Mfg: Comp & Elec | Process Heating | New | end use | 189,645 | 16% | 4.21 | 2 | \$1,317 | 77% | 0.80 |
| DLC | Elec Chip Fab: Eliminate Exhaust | Mfg: Comp & Elec | Process Other | Existing | end use | 70,113 | 5.0% | 0.49 | 10 | \$655 | 68% | 1.80 |
| DLC | Elec Chip Fab: Eliminate Exhaust | Mfg: Comp & Elec | Process Other | New | end use | 70,113 | 5.0% | 0.49 | 10 | \$655 | 68% | 1.80 |
| DLC | Elec Chip Fab: Exhaust Injector | Mfg: Comp & Elec | Process Other | Existing | end use | 70,113 | 100% | 9.84 | 10 | \$31,573 | 68% | 0.89 |
| DLC | Elec Chip Fab: Exhaust Injector | Mfg: Comp & Elec | Process Other | New | end use | 70,113 | 100% | 9.84 | 10 | \$31,573 | 68% | 0.89 |
| DLC | Elec Chip Fab: Reduce Gas Pressure | Mfg: Comp & Elec | Process Other | Existing | end use | 70,113 | 10.0% | 0.98 | 10 | \$0.0 | 68% | 6.57 |
| DLC | Elec Chip Fab: Reduce Gas Pressure | Mfg: Comp & Elec | Process Other | New | end use | 70,113 | 10.0% | 0.98 | 10 | \$0.0 | 68% | 6.57 |
| DLC | Facility Energy Management | Mfg: Comp & Elec | Process Other | Existing | end use | 70,113 | 1.8% | 0.18 | 2 | \$27 | 77% | 1.02 |
| DLC | Facility Energy Management | Mfg: Comp & Elec | Process Other | New | end use | 70,113 | 1.8% | 0.18 | 2 | \$27 | 77% | 1.02 |
| DLC | Adjustable speed drive on compressors | Mfg: Comp & Elec | Process Refrigeration | Early | end use | 38,362 | 12% | 0.66 | 10 | \$710 | 30% | 2.03 |
| DLC | Adjustable speed drive on compressors | Mfg: Comp & Elec | Process Refrigeration | New | end use | 38,362 | 12% | 0.66 | 10 | \$710 | 30% | 2.03 |
| DLC | Adjustable speed drive on compressors | Mfg: Comp & Elec | Process Refrigeration | ROB | end use | 38,362 | 12% | 0.66 | 10 | \$710 | 30% | 2.03 |
| DLC | Cooling Tower Optimization | Mfg: Comp & Elec | Process Refrigeration | Existing | building | 38,362 | 20% | 2.75 | 10 | \$235 | 15% | 6.01 |
| DLC | Optimization of operating parameters | Mfg: Comp & Elec | Process Refrigeration | Existing | end use | 38,362 | 13% | 0.73 | 3 | \$310 | 27% | 1.03 |
| DLC | Optimization of operating parameters | Mfg: Comp & Elec | Process Refrigeration | New | end use | 38,362 | 13% | 0.73 | 3 | \$310 | 27% | 1.03 |
| DLC | VFD on Cooling Tower Fan | Mfg: Comp & Elec | Process Refrigeration | Early | motor | 38,362 | 21% | 2.41 | 15 | \$1,767 | 20% | 2.91 |
| DLC | VFD on Cooling Tower Fan | Mfg: Comp & Elec | Process Refrigeration | New | motor | 38,362 | 22% | 2.41 | 15 | \$1,801 | 20% | 2.89 |
| DLC | VFD on Cooling Tower Fan | Mfg: Comp & Elec | Process Refrigeration | ROB | motor | 38,362 | 22% | 2.41 | 15 | \$1,801 | 20% | 2.89 |
| DLC | Facility Energy Management | Mfg: Comp & Elec | Pumps | Existing | end use | 205,357 | 1.8% | 0.49 | 2 | \$79 | 73% | 1.02 |
| DLC | Facility Energy Management | Mfg: Comp & Elec | Pumps | New | end use | 205,357 | 1.8% | 0.49 | 2 | \$79 | 73% | 1.02 |
| DLC | HE Motors | Mfg: Comp & Elec | Pumps | Early | end use | 205,357 | 2.0% | 0.55 | 15 | \$1,223 | 77% | 1.90 |
| DLC | HE Motors | Mfg: Comp & Elec | Pumps | New | end use | 205,357 | 2.0% | 0.55 | 15 | \$1,223 | 77% | 1.90 |
| DLC | HE Motors | Mfg: Comp & Elec | Pumps | ROB | end use | 205,357 | 2.0% | 0.55 | 15 | \$1,223 | 77% | 1.90 |
| DLC | Motor rewinds | Mfg: Comp & Elec | Pumps | Existing | end use | 205,357 | 0.6% | 0.16 | 9 | \$292 | 12% | 1.30 |
| DLC | Motor rewinds | Mfg: Comp & Elec | Pumps | New | end use | 205,357 | 0.6% | 0.16 | 9 | \$292 | 12% | 1.30 |
| DLC | Circulating Fans | Mfg: Food | Fans | Early | end use | 62,070 | 5.0% | 0.37 | 10 | \$378 | 68% | 2.34 |
| DLC | Circulating Fans | Mfg: Food | Fans | New | end use | 62,070 | 5.0% | 0.37 | 10 | \$378 | 68% | 2.34 |
| DLC | Circulating Fans | Mfg: Food | Fans | ROB | end use | 62,070 | 5.0% | 0.37 | 10 | \$378 | 68% | 2.34 |
| DLC | Facility Energy Management | Mfg: Food | Fans | Existing | end use | 62,070 | 1.8% | 0.14 | 2 | \$24 | 77% | 1.00 |
| DLC | Facility Energy Management | Mfg: Food | Fans | New | end use | 62,070 | 1.8% | 0.14 | 2 | \$24 | 77% | 1.00 |
| DLC | Fan System Optimization | Mfg: Food | Fans | Existing | end use | 62,070 | 7.3% | 0.54 | 10 | \$847 | 83% | 1.75 |
| DLC | Fan System Optimization | Mfg: Food | Fans | New | end use | 62,070 | 7.3% | 0.54 | 10 | \$847 | 83% | 1.75 |
| DLC | HE Motors | Mfg: Food | Fans | Early | end use | 62,070 | 2.0% | 0.15 | 15 | \$370 | 77% | 1.87 |
| DLC | HE Motors | Mfg: Food | Fans | New | end use | 62,070 | 2.0% | 0.15 | 15 | \$370 | 77% | 1.87 |
| DLC | HE Motors | Mfg: Food | Fans | ROB | end use | 62,070 | 2.0% | 0.15 | 15 | \$370 | 77% | 1.87 |
| DLC | Improved Controls - Fans | Mfg: Food | Fans | Existing | end use | 62,070 | 7.1% | 0.52 | 10 | \$241 | 60% | 3.59 |
| DLC | Improved Controls - Fans | Mfg: Food | Fans | New | end use | 62,070 | 7.1% | 0.52 | 10 | \$241 | 60% | 3.59 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|-----------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Properly Sized Fans | Mfg: Food | Fans | Early | end use | 62,070 | 13% | 0.97 | 10 | \$1,271 | 41% | 1.99 |
| DLC | Properly Sized Fans | Mfg: Food | Fans | New | end use | 62,070 | 13% | 0.97 | 10 | \$1,271 | 41% | 1.99 |
| DLC | Properly Sized Fans | Mfg: Food | Fans | ROB | end use | 62,070 | 13% | 0.97 | 10 | \$1,271 | 41% | 1.99 |
| DLC | Synchronous Belts | Mfg: Food | Fans | Early | end use | 62,070 | 1.2% | 0.09 | 10 | \$91 | 41% | 2.28 |
| DLC | Synchronous Belts | Mfg: Food | Fans | New | end use | 62,070 | 1.2% | 0.09 | 10 | \$91 | 41% | 2.28 |
| DLC | Synchronous Belts | Mfg: Food | Fans | ROB | end use | 62,070 | 1.2% | 0.09 | 10 | \$91 | 41% | 2.28 |
| DLC | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Food | HVAC | Early | unit (ton) | 38,527 | 9.2% | 0.92 | 15 | \$7,018 | 28% | 0.39 |
| DLC | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Food | HVAC | New | unit (ton) | 38,527 | 4.1% | 0.41 | 15 | \$1,700 | 28% | 0.70 |
| DLC | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Food | HVAC | ROB | unit (ton) | 38,527 | 4.1% | 0.41 | 15 | \$1,700 | 28% | 0.70 |
| DLC | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Food | HVAC | Early | unit (ton) | 38,527 | 12% | 1.24 | 15 | \$8,274 | 28% | 0.45 |
| DLC | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Food | HVAC | New | unit (ton) | 38,527 | 7.7% | 0.77 | 15 | \$3,581 | 28% | 0.63 |
| DLC | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Food | HVAC | ROB | unit (ton) | 38,527 | 7.7% | 0.77 | 15 | \$3,581 | 28% | 0.63 |
| DLC | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Food | HVAC | Early | unit (ton) | 38,527 | 15% | 1.52 | 15 | \$9,529 | 29% | 0.47 |
| DLC | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Food | HVAC | New | unit (ton) | 38,527 | 11% | 1.08 | 15 | \$5,462 | 29% | 0.58 |
| DLC | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Food | HVAC | ROB | unit (ton) | 38,527 | 11% | 1.08 | 15 | \$5,462 | 29% | 0.58 |
| DLC | >760k min 10.2 EER Air Conditioner | Mfg: Food | HVAC | Early | unit (ton) | 38,527 | 2.1% | 0.21 | 15 | \$12,222 | 35% | 0.05 |
| DLC | >760k min 10.2 EER Air Conditioner | Mfg: Food | HVAC | New | unit (ton) | 38,527 | 2.8% | 0.28 | 15 | \$1,105 | 35% | 0.74 |
| DLC | >760k min 10.2 EER Air Conditioner | Mfg: Food | HVAC | ROB | unit (ton) | 38,527 | 2.8% | 0.28 | 15 | \$1,105 | 35% | 0.74 |
| DLC | 135-240k min 12 EER Air Conditioner | Mfg: Food | HVAC | Early | unit (ton) | 38,527 | 10% | 1.05 | 15 | \$13,234 | 35% | 0.24 |
| DLC | 135-240k min 12 EER Air Conditioner | Mfg: Food | HVAC | New | unit (ton) | 38,527 | 5.8% | 0.58 | 15 | \$1,563 | 35% | 1.04 |
| DLC | 135-240k min 12 EER Air Conditioner | Mfg: Food | HVAC | ROB | unit (ton) | 38,527 | 5.8% | 0.58 | 15 | \$1,563 | 35% | 1.04 |
| DLC | 240k-760k min 11 EER Air Conditioner | Mfg: Food | HVAC | Early | unit (ton) | 38,527 | 5.2% | 0.52 | 15 | \$12,229 | 35% | 0.13 |
| DLC | 240k-760k min 11 EER Air Conditioner | Mfg: Food | HVAC | New | unit (ton) | 38,527 | 5.3% | 0.53 | 15 | \$1,310 | 35% | 1.14 |
| DLC | 240k-760k min 11 EER Air Conditioner | Mfg: Food | HVAC | ROB | unit (ton) | 38,527 | 5.3% | 0.53 | 15 | \$1,310 | 35% | 1.14 |
| DLC | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Food | HVAC | Early | unit (ton) | 38,527 | 9.7% | 0.97 | 15 | \$13,551 | 35% | 0.22 |
| DLC | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Food | HVAC | New | unit (ton) | 38,527 | 3.8% | 0.38 | 15 | \$1,933 | 35% | 0.58 |
| DLC | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Food | HVAC | ROB | unit (ton) | 38,527 | 3.8% | 0.38 | 15 | \$1,933 | 35% | 0.58 |
| DLC | Ceiling Insualtions (Going upto R 20) | Mfg: Food | HVAC | Existing | building | 38,527 | 5.9% | 0.57 | 15 | \$116,731 | 71% | 0.02 |
| DLC | Ceiling Insualtions (Going upto R 20) | Mfg: Food | HVAC | New | building | 38,527 | 3.7% | 0.36 | 15 | \$110,956 | 94% | 0.01 |
| DLC | Chiller Tuneup/Diagnostics | Mfg: Food | HVAC | Existing | building | 38,527 | 8.0% | 1.13 | 10 | \$98,377 | 59% | 0.02 |
| DLC | Chiller Tuneup/Diagnostics | Mfg: Food | HVAC | New | building | 38,527 | 8.0% | 1.13 | 10 | \$98,377 | 59% | 0.02 |
| DLC | Cooling Tower Optimization | Mfg: Food | HVAC | Existing | building | 38,527 | 20% | 2.76 | 10 | \$236 | 12% | 6.05 |
| DLC | Duct Insulation, Add R8 | Mfg: Food | HVAC | Existing | building | 38,527 | 1.5% | 0.12 | 15 | \$306 | 18% | 1.30 |
| DLC | Duct Insulation, Add R8 | Mfg: Food | HVAC | New | building | 38,527 | 1.5% | 0.12 | 15 | \$306 | 9% | 1.30 |
| DLC | Ductless Heat Pump | Mfg: Food | HVAC | Early | heat pump | 38,527 | 0.8% | 0.07 | 15 | \$3,060 | 83% | 0.08 |
| DLC | Ductless Heat Pump | Mfg: Food | HVAC | New | heat pump | 38,527 | 0.4% | 0.04 | 15 | \$889 | 83% | 0.15 |
| DLC | Ductless Heat Pump | Mfg: Food | HVAC | ROB | heat pump | 38,527 | 0.4% | 0.04 | 15 | \$889 | 83% | 0.15 |
| DLC | DX Coil Cleaning | Mfg: Food | HVAC | Existing | building | 38,527 | 13% | 1.77 | 1 | \$369 | 73% | 0.43 |
| DLC | DX Coil Cleaning | Mfg: Food | HVAC | New | building | 38,527 | 13% | 1.77 | 1 | \$369 | 73% | 0.43 |
| DLC | Efficient Unit Heating System | Mfg: Food | HVAC | Early | heater | 38,527 | 6.9% | 0.02 | 15 | \$2,075 | 83% | 0.68 |
| DLC | Efficient Unit Heating System | Mfg: Food | HVAC | New | heater | 38,527 | 4.0% | 0.01 | 15 | \$1,416 | 83% | 0.58 |
| DLC | Efficient Unit Heating System | Mfg: Food | HVAC | ROB | heater | 38,527 | 4.0% | 0.01 | 15 | \$1,416 | 83% | 0.58 |
| DLC | Ground Source Heat Pump (Closed Loop) | Mfg: Food | HVAC | Early | heat pump | 38,527 | 1.3% | 0.11 | 15 | \$6,354 | 19% | 0.06 |
| DLC | Ground Source Heat Pump (Closed Loop) | Mfg: Food | HVAC | New | heat pump | 38,527 | 1.0% | 0.09 | 15 | \$2,509 | 19% | 0.12 |
| DLC | Ground Source Heat Pump (Closed Loop) | Mfg: Food | HVAC | ROB | heat pump | 38,527 | 1.0% | 0.09 | 15 | \$2,509 | 19% | 0.12 |
| DLC | Ground Source Heat Pump (Open Loop) | Mfg: Food | HVAC | Early | heat pump | 38,527 | 1.3% | 0.11 | 15 | \$4,069 | 19% | 0.09 |
| DLC | Ground Source Heat Pump (Open Loop) | Mfg: Food | HVAC | New | heat pump | 38,527 | 1.0% | 0.09 | 15 | \$86 | 19% | 2.67 |
| DLC | Ground Source Heat Pump (Open Loop) | Mfg: Food | HVAC | ROB | heat pump | 38,527 | 1.0% | 0.09 | 15 | \$86 | 19% | 2.67 |
| DLC | HE Air Cooled Chiller, 100 Tons | Mfg: Food | HVAC | Early | unit (ton) | 38,527 | 1.5% | 0.13 | 15 | \$45,295 | 89% | 0.01 |
| DLC | HE Air Cooled Chiller, 100 Tons | Mfg: Food | HVAC | New | unit (ton) | 38,527 | 0.4% | 0.04 | 15 | \$6,599 | 89% | 0.02 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|-----------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | HE Air Cooled Chiller, 100 Tons | Mfg: Food | HVAC | ROB | unit (ton) | 38,527 | 0.4% | 0.04 | 15 | \$6,599 | 89% | 0.02 |
| DLC | HE Air Cooled Chiller, 150 Tons | Mfg: Food | HVAC | Early | unit (ton) | 38,527 | 1.5% | 0.13 | 15 | \$39,125 | 89% | 0.01 |
| DLC | HE Air Cooled Chiller, 150 Tons | Mfg: Food | HVAC | New | unit (ton) | 38,527 | 0.3% | 0.03 | 15 | \$3,241 | 89% | 0.03 |
| DLC | HE Air Cooled Chiller, 150 Tons | Mfg: Food | HVAC | ROB | unit (ton) | 38,527 | 0.3% | 0.03 | 15 | \$3,241 | 89% | 0.03 |
| DLC | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Food | HVAC | Early | heat pump | 38,527 | 1.4% | 0.12 | 12 | \$1,659 | 81% | 0.20 |
| DLC | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Food | HVAC | Early | heat pump | 38,527 | 1.1% | 0.10 | 12 | \$1,212 | 81% | 0.22 |
| DLC | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Food | HVAC | New | heat pump | 38,527 | 1.0% | 0.09 | 12 | \$740 | 81% | 0.32 |
| DLC | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Food | HVAC | New | heat pump | 38,527 | 0.8% | 0.07 | 12 | \$259 | 81% | 0.66 |
| DLC | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Food | HVAC | ROB | heat pump | 38,527 | 1.0% | 0.09 | 12 | \$740 | 81% | 0.32 |
| DLC | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Food | HVAC | ROB | heat pump | 38,527 | 0.8% | 0.07 | 12 | \$259 | 81% | 0.66 |
| DLC | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Food | HVAC | Early | unit (ton) | 38,527 | 1.6% | 0.14 | 15 | \$3,594 | 89% | 0.13 |
| DLC | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Food | HVAC | New | unit (ton) | 38,527 | 0.9% | 0.08 | 15 | \$1,195 | 89% | 0.23 |
| DLC | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Food | HVAC | ROB | unit (ton) | 38,527 | 0.9% | 0.08 | 15 | \$1,195 | 89% | 0.23 |
| DLC | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Food | HVAC | Early | unit (ton) | 38,527 | 1.4% | 0.12 | 15 | \$3,510 | 89% | 0.12 |
| DLC | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Food | HVAC | New | unit (ton) | 38,527 | 1.0% | 0.09 | 15 | \$685 | 89% | 0.42 |
| DLC | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Food | HVAC | ROB | unit (ton) | 38,527 | 1.4% | 0.12 | 15 | \$630 | 89% | 0.63 |
| DLC | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Food | HVAC | Early | unit (ton) | 38,527 | 1.4% | 0.12 | 15 | \$4,154 | 89% | 0.10 |
| DLC | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Food | HVAC | New | unit (ton) | 38,527 | 0.9% | 0.08 | 15 | \$1,749 | 89% | 0.15 |
| DLC | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Food | HVAC | ROB | unit (ton) | 38,527 | 1.4% | 0.12 | 15 | \$1,583 | 89% | 0.26 |
| DLC | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Food | HVAC | Early | unit (ton) | 38,527 | 1.4% | 0.12 | 15 | \$4,002 | 89% | 0.10 |
| DLC | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Food | HVAC | New | unit (ton) | 38,527 | 0.9% | 0.08 | 15 | \$1,520 | 89% | 0.17 |
| DLC | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Food | HVAC | ROB | unit (ton) | 38,527 | 1.4% | 0.12 | 15 | \$1,376 | 89% | 0.30 |
| DLC | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Food | HVAC | Early | unit (ton) | 38,527 | 1.8% | 0.16 | 15 | \$4,312 | 89% | 0.12 |
| DLC | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Food | HVAC | New | unit (ton) | 38,527 | 0.6% | 0.05 | 15 | \$2,670 | 89% | 0.06 |
| DLC | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Food | HVAC | ROB | unit (ton) | 38,527 | 1.8% | 0.16 | 15 | \$2,073 | 89% | 0.26 |
| DLC | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Food | HVAC | Early | unit (ton) | 38,527 | 2.2% | 0.19 | 15 | \$3,966 | 89% | 0.16 |
| DLC | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Food | HVAC | New | unit (ton) | 38,527 | 0.8% | 0.07 | 15 | \$1,591 | 89% | 0.14 |
| DLC | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Food | HVAC | ROB | unit (ton) | 38,527 | 0.8% | 0.07 | 15 | \$1,591 | 89% | 0.14 |
| DLC | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Food | HVAC | Early | unit (ton) | 38,527 | 2.4% | 0.21 | 15 | \$3,361 | 89% | 0.21 |
| DLC | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Food | HVAC | New | unit (ton) | 38,527 | 0.9% | 0.08 | 15 | \$846 | 89% | 0.31 |
| DLC | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Food | HVAC | ROB | unit (ton) | 38,527 | 2.4% | 0.21 | 15 | \$603 | 89% | 1.08 |
| DLC | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Food | HVAC | Early | unit (ton) | 38,527 | 1.8% | 0.16 | 15 | \$3,327 | 89% | 0.16 |
| DLC | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Food | HVAC | New | unit (ton) | 38,527 | 0.7% | 0.06 | 15 | \$932 | 89% | 0.22 |
| DLC | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Food | HVAC | ROB | unit (ton) | 38,527 | 1.8% | 0.16 | 15 | \$738 | 89% | 0.69 |
| DLC | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Food | HVAC | Existing | building | 38,527 | 2.9% | 0.23 | 5 | \$409 | 55% | 0.55 |
| DLC | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Food | HVAC | New | building | 38,527 | 0.6% | 0.09 | 5 | \$245 | 51% | 0.28 |
| DLC | Improved Controls - HVAC | Mfg: Food | HVAC | Existing | end use | 38,527 | 21% | 1.16 | 10 | \$405 | 76% | 3.87 |
| DLC | Improved Controls - HVAC | Mfg: Food | HVAC | New | end use | 38,527 | 21% | 1.16 | 10 | \$405 | 76% | 3.87 |
| DLC | Outside Air Economizer | Mfg: Food | HVAC | Existing | building | 38,527 | 1.1% | 0.11 | 10 | \$141,556 | 82% | 0.00 |
| DLC | Outside Air Economizer | Mfg: Food | HVAC | New | building | 38,527 | 1.1% | 0.11 | 10 | \$141,556 | 82% | 0.00 |
| DLC | Recommissioning | Mfg: Food | HVAC | Existing | end use | 38,527 | 5.0% | 0.28 | 10 | \$53 | 88% | 4.78 |
| DLC | Recommissioning | Mfg: Food | HVAC | New | end use | 38,527 | 5.0% | 0.28 | 10 | \$53 | 88% | 4.78 |
| DLC | Room AC (with louvered sides) | Mfg: Food | HVAC | Early | unit (ton) | 38,527 | 7.7% | 0.67 | 9 | \$3,020 | 78% | 0.43 |
| DLC | Room AC (with louvered sides) | Mfg: Food | HVAC | New | unit (ton) | 38,527 | 2.6% | 0.22 | 9 | \$165 | 78% | 1.95 |
| DLC | Room AC (with louvered sides) | Mfg: Food | HVAC | ROB | unit (ton) | 38,527 | 2.6% | 0.22 | 9 | \$165 | 78% | 1.95 |
| DLC | Variable Refrigerant Flow Heat Pump | Mfg: Food | HVAC | New | measure | 38,527 | 0.1% | 0.01 | 13 | \$285 | 43% | 0.10 |
| DLC | Variable Refrigerant Flow Heat Pump | Mfg: Food | HVAC | ROB | measure | 38,527 | 0.1% | 0.01 | 13 | \$285 | 43% | 0.10 |
| DLC | VFD on Cooling Tower Fan | Mfg: Food | HVAC | Early | motor | 38,527 | 21% | 2.42 | 15 | \$1,775 | 15% | 2.92 |
| DLC | VFD on Cooling Tower Fan | Mfg: Food | HVAC | New | motor | 38,527 | 22% | 2.42 | 15 | \$1,809 | 15% | 2.90 |
| DLC | VFD on Cooling Tower Fan | Mfg: Food | HVAC | ROB | motor | 38,527 | 22% | 2.42 | 15 | \$1,809 | 15% | 2.90 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---------------------------------------|-----------|----------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Wall Insualtions (Going upto R 21) | Mfg: Food | HVAC | Existing | building | 38,527 | 19% | 1.84 | 15 | \$27,407 | 26% | 0.21 |
| DLC | Wall Insualtions (Going upto R 21) | Mfg: Food | HVAC | New | building | 38,527 | 0.6% | 0.06 | 15 | \$21,022 | 94% | 0.01 |
| DLC | Water Source Heat Pump (4 ton) | Mfg: Food | HVAC | Early | heat pump | 38,527 | 1.5% | 0.13 | 15 | \$6,580 | 28% | 0.07 |
| DLC | Water Source Heat Pump (4 ton) | Mfg: Food | HVAC | New | heat pump | 38,527 | 1.1% | 0.10 | 15 | \$3,207 | 28% | 0.10 |
| DLC | Water Source Heat Pump (4 ton) | Mfg: Food | HVAC | ROB | heat pump | 38,527 | 1.1% | 0.10 | 15 | \$3,207 | 28% | 0.10 |
| DLC | Efficient Metal Halide (High Bay) | Mfg: Food | Lighting | Early | end use | 39,781 | 42% | 0.00 | 9 | \$6,216 | 53% | 0.73 |
| DLC | Efficient Metal Halide (High Bay) | Mfg: Food | Lighting | New | end use | 39,781 | 41% | 0.00 | 13 | \$166,036 | 61% | 0.05 |
| DLC | Efficient Metal Halide (High Bay) | Mfg: Food | Lighting | ROB | end use | 39,781 | 41% | 0.00 | 13 | \$126,894 | 61% | 0.06 |
| DLC | Induction (High Bay) | Mfg: Food | Lighting | Early | end use | 39,781 | 94% | 0.00 | 13 | \$18,496 | 95% | 0.88 |
| DLC | Induction (High Bay) | Mfg: Food | Lighting | New | end use | 39,781 | 94% | 0.00 | 13 | \$17,317 | 95% | 0.93 |
| DLC | Induction (High Bay) | Mfg: Food | Lighting | ROB | end use | 39,781 | 94% | 0.00 | 13 | \$13,161 | 95% | 1.18 |
| DLC | LED (High Bay) | Mfg: Food | Lighting | Early | end use | 39,781 | 69% | 0.00 | 14 | \$21,772 | 95% | 0.61 |
| DLC | LED (High Bay) | Mfg: Food | Lighting | New | end use | 39,781 | 55% | 0.00 | 14 | \$24,167 | 95% | 0.45 |
| DLC | LED (High Bay) | Mfg: Food | Lighting | ROB | end use | 39,781 | 59% | 0.00 | 14 | \$15,923 | 95% | 0.71 |
| DLC | Lighting Controls | Mfg: Food | Lighting | Existing | end use | 39,781 | 20% | 0.00 | 6 | \$149,132 | 16% | 0.01 |
| DLC | Lighting Controls | Mfg: Food | Lighting | New | end use | 39,781 | 12% | 0.00 | 10 | \$198,395 | 11% | 0.01 |
| DLC | Linear Fluorescent (High Bay) | Mfg: Food | Lighting | Early | end use | 39,781 | 17% | 0.00 | 14 | \$4,552 | 98% | 0.71 |
| DLC | Linear Fluorescent (High Bay) | Mfg: Food | Lighting | New | end use | 39,781 | 13% | 0.00 | 14 | \$1,443 | 91% | 1.50 |
| DLC | Linear Fluorescent (High Bay) | Mfg: Food | Lighting | ROB | end use | 39,781 | 13% | 0.00 | 14 | \$924 | 91% | 2.16 |
| DLC | Metal Halide (High Bay) | Mfg: Food | Lighting | Early | end use | 39,781 | 62% | 0.00 | 13 | \$27,347 | 38% | 0.42 |
| DLC | Metal Halide (High Bay) | Mfg: Food | Lighting | New | end use | 39,781 | 73% | 0.00 | 13 | \$6,538 | 38% | 1.67 |
| DLC | Metal Halide (High Bay) | Mfg: Food | Lighting | ROB | end use | 39,781 | 73% | 0.00 | 13 | \$4,969 | 38% | 2.05 |
| DLC | Screw Base CFL | Mfg: Food | Lighting | Early | end use | 39,781 | 80% | 0.00 | 7 | \$10,807 | 17% | 0.54 |
| DLC | Screw Base CFL | Mfg: Food | Lighting | New | end use | 39,781 | 73% | 0.00 | 9 | \$8,832 | 18% | 0.85 |
| DLC | Screw Base CFL | Mfg: Food | Lighting | ROB | end use | 39,781 | 73% | 0.00 | 9 | \$7,393 | 17% | 0.98 |
| DLC | Screw Base LED | Mfg: Food | Lighting | Early | end use | 39,781 | 76% | 0.00 | 9 | \$6,633 | 21% | 1.17 |
| DLC | Screw Base LED | Mfg: Food | Lighting | New | end use | 39,781 | 77% | 0.00 | 9 | \$3,695 | 20% | 1.79 |
| DLC | Screw Base LED | Mfg: Food | Lighting | ROB | end use | 39,781 | 77% | 0.00 | 9 | \$2,933 | 21% | 2.05 |
| DLC | T8 High Performance Linear Florescent | Mfg: Food | Lighting | Early | end use | 39,781 | 36% | 0.00 | 14 | \$3,807 | 71% | 1.59 |
| DLC | T8 High Performance Linear Florescent | Mfg: Food | Lighting | New | end use | 39,781 | 26% | 0.00 | 14 | \$1,362 | 76% | 2.67 |
| DLC | T8 High Performance Linear Florescent | Mfg: Food | Lighting | ROB | end use | 39,781 | 26% | 0.00 | 14 | \$1,035 | 76% | 3.16 |
| DLC | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Food | Motors | Early | end use | 19,596 | 0.9% | 0.03 | 15 | \$299 | 81% | 0.41 |
| DLC | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Food | Motors | New | end use | 19,596 | 0.9% | 0.03 | 15 | \$299 | 81% | 0.40 |
| DLC | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Food | Motors | ROB | end use | 19,596 | 0.9% | 0.03 | 15 | \$299 | 81% | 0.40 |
| DLC | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Food | Motors | Early | end use | 19,596 | 0.8% | 0.02 | 15 | \$182 | 73% | 0.54 |
| DLC | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Food | Motors | New | end use | 19,596 | 0.8% | 0.02 | 15 | \$182 | 73% | 0.54 |
| DLC | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Food | Motors | ROB | end use | 19,596 | 0.8% | 0.02 | 15 | \$182 | 73% | 0.53 |
| DLC | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Food | Motors | Early | end use | 19,596 | 0.5% | 0.01 | 15 | \$70 | 81% | 0.82 |
| DLC | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Food | Motors | New | end use | 19,596 | 0.5% | 0.01 | 15 | \$70 | 81% | 0.83 |
| DLC | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Food | Motors | ROB | end use | 19,596 | 0.5% | 0.01 | 15 | \$70 | 81% | 0.83 |
| DLC | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Food | Motors | Early | end use | 19,596 | 0.4% | 0.01 | 15 | \$23 | 73% | 1.95 |
| DLC | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Food | Motors | New | end use | 19,596 | 0.4% | 0.01 | 15 | \$23 | 73% | 1.91 |
| DLC | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Food | Motors | ROB | end use | 19,596 | 0.4% | 0.01 | 15 | \$23 | 73% | 1.90 |
| DLC | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Food | Motors | Early | end use | 19,596 | 0.9% | 0.03 | 15 | \$34 | 47% | 2.65 |
| DLC | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Food | Motors | New | end use | 19,596 | 0.9% | 0.03 | 15 | \$34 | 47% | 2.68 |
| DLC | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Food | Motors | ROB | end use | 19,596 | 0.9% | 0.03 | 15 | \$34 | 47% | 2.68 |
| DLC | Facility Energy Management | Mfg: Food | Motors | Existing | end use | 19,596 | 1.8% | 0.05 | 2 | \$7.6 | 77% | 1.02 |
| DLC | Facility Energy Management | Mfg: Food | Motors | New | end use | 19,596 | 1.8% | 0.05 | 2 | \$7.6 | 77% | 1.02 |
| DLC | HE Motors | Mfg: Food | Motors | Early | end use | 19,596 | 2.0% | 0.06 | 15 | \$117 | 38% | 1.93 |
| DLC | HE Motors | Mfg: Food | Motors | New | end use | 19,596 | 2.0% | 0.06 | 15 | \$117 | 38% | 1.93 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|-----------|------------------------|----------|---------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | HE Motors | Mfg: Food | Motors | ROB | end use | 19,596 | 2.0% | 0.06 | 15 | \$117 | 38% | 1.93 |
| DLC | High-Efficiency Ventilation System | Mfg: Food | Motors | Early | end use | 19,596 | 5.7% | 0.16 | 10 | \$1,225 | 73% | 0.40 |
| DLC | High-Efficiency Ventilation System | Mfg: Food | Motors | New | end use | 19,596 | 5.7% | 0.16 | 10 | \$1,225 | 73% | 0.40 |
| DLC | High-Efficiency Ventilation System | Mfg: Food | Motors | ROB | end use | 19,596 | 5.7% | 0.16 | 10 | \$1,225 | 73% | 0.40 |
| DLC | Improved Controls - Motors | Mfg: Food | Motors | Existing | end use | 19,596 | 4.0% | 0.11 | 10 | \$85 | 73% | 2.57 |
| DLC | Improved Controls - Motors | Mfg: Food | Motors | New | end use | 19,596 | 4.0% | 0.11 | 10 | \$85 | 73% | 2.57 |
| DLC | Motor Management Plan | Mfg: Food | Motors | Existing | end use | 19,596 | 2.9% | 0.08 | 10 | \$40 | 73% | 3.29 |
| DLC | Motor Management Plan | Mfg: Food | Motors | New | end use | 19,596 | 2.9% | 0.08 | 10 | \$40 | 73% | 3.29 |
| DLC | Motors Other | Mfg: Food | Motors | Existing | end use | 19,596 | 1.1% | 0.03 | 15 | \$3.9 | 83% | 7.86 |
| DLC | Motors Other | Mfg: Food | Motors | New | end use | 19,596 | 1.1% | 0.03 | 15 | \$3.9 | 83% | 7.86 |
| DLC | Motors: Rewind 101-200 HP | Mfg: Food | Motors | Existing | end use | 19,596 | 0.6% | 0.02 | 10 | \$25 | 27% | 1.55 |
| DLC | Motors: Rewind 101-200 HP | Mfg: Food | Motors | New | end use | 19,596 | 0.6% | 0.02 | 10 | \$25 | 27% | 1.55 |
| DLC | Motors: Rewind 201-500 HP | Mfg: Food | Motors | Existing | end use | 19,596 | 0.5% | 0.02 | 8 | \$16 | 27% | 1.64 |
| DLC | Motors: Rewind 201-500 HP | Mfg: Food | Motors | New | end use | 19,596 | 0.5% | 0.02 | 8 | \$16 | 27% | 1.64 |
| DLC | Motors: Rewind 20-50 HP | Mfg: Food | Motors | Existing | end use | 19,596 | 1.0% | 0.03 | 11 | \$73 | 42% | 1.22 |
| DLC | Motors: Rewind 20-50 HP | Mfg: Food | Motors | New | end use | 19,596 | 1.0% | 0.03 | 11 | \$73 | 42% | 1.22 |
| DLC | Motors: Rewind 500+ HP | Mfg: Food | Motors | Existing | end use | 19,596 | 0.6% | 0.02 | 8 | \$11 | 11% | 2.06 |
| DLC | Motors: Rewind 500+ HP | Mfg: Food | Motors | New | end use | 19,596 | 0.6% | 0.02 | 8 | \$11 | 11% | 2.06 |
| DLC | Motors: Rewind 51-100 HP | Mfg: Food | Motors | Existing | end use | 19,596 | 0.6% | 0.02 | 9 | \$36 | 42% | 1.09 |
| DLC | Motors: Rewind 51-100 HP | Mfg: Food | Motors | New | end use | 19,596 | 0.6% | 0.02 | 9 | \$36 | 42% | 1.09 |
| DLC | Switch from Belt drive to Direct Drive | Mfg: Food | Motors | Early | end use | 19,596 | 7.5% | 0.21 | 12 | \$314 | 30% | 1.98 |
| DLC | Switch from Belt drive to Direct Drive | Mfg: Food | Motors | New | end use | 19,596 | 7.5% | 0.21 | 12 | \$314 | 30% | 1.98 |
| DLC | Switch from Belt drive to Direct Drive | Mfg: Food | Motors | ROB | end use | 19,596 | 7.5% | 0.21 | 12 | \$314 | 30% | 1.98 |
| DLC | Synchronous Belts | Mfg: Food | Motors | Early | end use | 19,596 | 1.2% | 0.03 | 10 | \$29 | 30% | 2.36 |
| DLC | Synchronous Belts | Mfg: Food | Motors | New | end use | 19,596 | 1.2% | 0.03 | 10 | \$29 | 30% | 2.36 |
| DLC | Synchronous Belts | Mfg: Food | Motors | ROB | end use | 19,596 | 1.2% | 0.03 | 10 | \$29 | 30% | 2.36 |
| DLC | Bldg Improvements | Mfg: Food | Other | Existing | end use | 13,433 | 16% | 0.26 | 15 | \$293 | 72% | 3.29 |
| DLC | Bldg Improvements | Mfg: Food | Other | New | end use | 13,433 | 16% | 0.26 | 15 | \$293 | 72% | 3.29 |
| DLC | Energy Project Management | Mfg: Food | Other | Existing | end use | 13,433 | 29% | 0.46 | 11 | \$480 | 63% | 2.57 |
| DLC | Energy Project Management | Mfg: Food | Other | New | end use | 13,433 | 29% | 0.46 | 11 | \$480 | 63% | 2.57 |
| DLC | Facility Energy Management | Mfg: Food | Other | Existing | end use | 13,433 | 1.8% | 0.03 | 2 | \$5.2 | 76% | 0.99 |
| DLC | Facility Energy Management | Mfg: Food | Other | New | end use | 13,433 | 1.8% | 0.03 | 2 | \$5.2 | 76% | 0.99 |
| DLC | Integrated Plant Energy Management | Mfg: Food | Other | Existing | end use | 13,433 | 50% | 0.80 | 11 | \$1,324 | 48% | 1.86 |
| DLC | Integrated Plant Energy Management | Mfg: Food | Other | New | end use | 13,433 | 50% | 0.80 | 11 | \$1,324 | 48% | 1.86 |
| DLC | Plant Energy Management | Mfg: Food | Other | Existing | end use | 13,433 | 12% | 0.19 | 10 | \$34 | 55% | 4.91 |
| DLC | Plant Energy Management | Mfg: Food | Other | New | end use | 13,433 | 12% | 0.19 | 10 | \$34 | 55% | 4.91 |
| DLC | Transformers | Mfg: Food | Other | Early | end use | 13,433 | 1.6% | 0.03 | 15 | \$43 | 34% | 2.50 |
| DLC | Transformers | Mfg: Food | Other | New | end use | 13,433 | 1.6% | 0.03 | 15 | \$43 | 34% | 2.51 |
| DLC | Transformers | Mfg: Food | Other | ROB | end use | 13,433 | 1.6% | 0.03 | 15 | \$43 | 34% | 2.51 |
| DLC | Air Compressor Demand Reduction | Mfg: Food | Process Air Compressor | Existing | end use | 221 | 26% | 0.01 | 10 | \$3.3 | 52% | 3.54 |
| DLC | Air Compressor Demand Reduction | Mfg: Food | Process Air Compressor | New | end use | 221 | 26% | 0.01 | 10 | \$3.3 | 52% | 3.54 |
| DLC | Air Compressor Equipment | Mfg: Food | Process Air Compressor | Early | end use | 221 | 39% | 0.01 | 10 | \$4.0 | 73% | 3.89 |
| DLC | Air Compressor Equipment | Mfg: Food | Process Air Compressor | New | end use | 221 | 39% | 0.01 | 10 | \$4.0 | 73% | 3.89 |
| DLC | Air Compressor Equipment | Mfg: Food | Process Air Compressor | ROB | end use | 221 | 39% | 0.01 | 10 | \$4.0 | 73% | 3.89 |
| DLC | Air Compressor Optimization | Mfg: Food | Process Air Compressor | Existing | end use | 221 | 39% | 0.01 | 10 | \$9.6 | 55% | 2.51 |
| DLC | Air Compressor Optimization | Mfg: Food | Process Air Compressor | New | end use | 221 | 39% | 0.01 | 10 | \$9.6 | 55% | 2.51 |
| DLC | Facility Energy Management | Mfg: Food | Process Air Compressor | Existing | end use | 221 | 1.8% | 0.00 | 2 | \$0.1 | 62% | 1.00 |
| DLC | Facility Energy Management | Mfg: Food | Process Air Compressor | New | end use | 221 | 1.8% | 0.00 | 2 | \$0.1 | 62% | 1.00 |
| DLC | HE Compressor motors | Mfg: Food | Process Air Compressor | Early | end use | 221 | 1.1% | 0.00 | 15 | \$0.8 | 73% | 1.65 |
| DLC | HE Compressor motors | Mfg: Food | Process Air Compressor | New | end use | 221 | 1.1% | 0.00 | 15 | \$0.8 | 73% | 1.67 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---------------------------------------|-----------|------------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | HE Compressor motors | Mfg: Food | Process Air Compressor | ROB | end use | 221 | 1.1% | 0.00 | 15 | \$0.8 | 73% | 1.67 |
| DLC | Improved Controls - Air Compressor | Mfg: Food | Process Air Compressor | Existing | end use | 221 | 41% | 0.01 | 10 | \$3.9 | 25% | 3.98 |
| DLC | Improved Controls - Air Compressor | Mfg: Food | Process Air Compressor | New | end use | 221 | 41% | 0.01 | 10 | \$3.9 | 25% | 3.98 |
| DLC | Low Pressure-drop Filters | Mfg: Food | Process Air Compressor | Existing | end use | 221 | 1.8% | 0.00 | 10 | \$2.5 | 61% | 0.66 |
| DLC | Low Pressure-drop Filters | Mfg: Food | Process Air Compressor | New | end use | 221 | 1.8% | 0.00 | 10 | \$2.5 | 61% | 0.66 |
| DLC | Outside Air Intake | Mfg: Food | Process Air Compressor | Existing | end use | 221 | 1.4% | 0.00 | 10 | \$1.5 | 48% | 0.86 |
| DLC | Outside Air Intake | Mfg: Food | Process Air Compressor | New | end use | 221 | 1.4% | 0.00 | 10 | \$1.5 | 48% | 0.86 |
| DLC | Receiver Capacity Addition | Mfg: Food | Process Air Compressor | Existing | end use | 221 | 5.9% | 0.00 | 10 | \$4.1 | 36% | 1.19 |
| DLC | Receiver Capacity Addition | Mfg: Food | Process Air Compressor | New | end use | 221 | 5.9% | 0.00 | 10 | \$4.1 | 36% | 1.19 |
| DLC | Refrigerated Cycling Dryers | Mfg: Food | Process Air Compressor | Early | end use | 221 | 1.7% | 0.00 | 10 | \$0.5 | 21% | 2.19 |
| DLC | Refrigerated Cycling Dryers | Mfg: Food | Process Air Compressor | New | end use | 221 | 1.7% | 0.00 | 10 | \$0.5 | 21% | 2.19 |
| DLC | Refrigerated Cycling Dryers | Mfg: Food | Process Air Compressor | ROB | end use | 221 | 1.7% | 0.00 | 10 | \$0.5 | 21% | 2.19 |
| DLC | VFD Controlled Compressor | Mfg: Food | Process Air Compressor | Early | end use | 221 | 24% | 0.01 | 10 | \$22 | 28% | 0.94 |
| DLC | VFD Controlled Compressor | Mfg: Food | Process Air Compressor | New | end use | 221 | 24% | 0.01 | 10 | \$22 | 28% | 0.94 |
| DLC | VFD Controlled Compressor | Mfg: Food | Process Air Compressor | ROB | end use | 221 | 24% | 0.01 | 10 | \$22 | 28% | 0.94 |
| DLC | Zero Loss Condensate Drain | Mfg: Food | Process Air Compressor | Early | end use | 221 | 1.9% | 0.00 | 10 | \$1.3 | 36% | 1.20 |
| DLC | Zero Loss Condensate Drain | Mfg: Food | Process Air Compressor | New | end use | 221 | 1.9% | 0.00 | 10 | \$1.3 | 36% | 1.20 |
| DLC | Zero Loss Condensate Drain | Mfg: Food | Process Air Compressor | ROB | end use | 221 | 1.9% | 0.00 | 10 | \$1.3 | 36% | 1.20 |
| DLC | Cooling Tower Optimization | Mfg: Food | Process Cooling | Existing | building | 73,501 | 20% | 5.26 | 10 | \$451 | 15% | 6.01 |
| DLC | Equipment: Chillers | Mfg: Food | Process Cooling | Early | end use | 73,501 | 18% | 2.74 | 15 | \$3,450 | 68% | 2.28 |
| DLC | Equipment: Chillers | Mfg: Food | Process Cooling | New | end use | 73,501 | 18% | 2.74 | 15 | \$3,450 | 68% | 2.28 |
| DLC | Equipment: Chillers | Mfg: Food | Process Cooling | ROB | end use | 73,501 | 18% | 2.74 | 15 | \$3,450 | 68% | 2.28 |
| DLC | Facility Energy Management | Mfg: Food | Process Cooling | Existing | end use | 73,501 | 1.8% | 0.28 | 2 | \$28 | 86% | 1.14 |
| DLC | Facility Energy Management | Mfg: Food | Process Cooling | New | end use | 73,501 | 1.8% | 0.28 | 2 | \$28 | 86% | 1.14 |
| DLC | Food: Refrig Storage Tuneup | Mfg: Food | Process Cooling | Existing | end use | 73,501 | 14% | 2.20 | 3 | \$459 | 47% | 1.34 |
| DLC | Food: Refrig Storage Tuneup | Mfg: Food | Process Cooling | New | end use | 73,501 | 14% | 2.20 | 3 | \$459 | 47% | 1.34 |
| DLC | Fruit Storage Refer Retrofit | Mfg: Food | Process Cooling | Existing | end use | 73,501 | 38% | 5.86 | 10 | \$4,752 | 12% | 2.13 |
| DLC | Fruit Storage Refer Retrofit | Mfg: Food | Process Cooling | New | end use | 73,501 | 38% | 5.86 | 10 | \$4,752 | 12% | 2.13 |
| DLC | Fruit Storage Tuneup | Mfg: Food | Process Cooling | Existing | end use | 73,501 | 16% | 2.39 | 3 | \$498 | 12% | 1.34 |
| DLC | Fruit Storage Tuneup | Mfg: Food | Process Cooling | New | end use | 73,501 | 16% | 2.39 | 3 | \$498 | 12% | 1.34 |
| DLC | Improved Controls - Process Cooling | Mfg: Food | Process Cooling | Existing | end use | 73,501 | 6.0% | 0.92 | 10 | \$3,881 | 81% | 0.54 |
| DLC | Improved Controls - Process Cooling | Mfg: Food | Process Cooling | New | end use | 73,501 | 6.0% | 0.92 | 10 | \$3,881 | 81% | 0.54 |
| DLC | VFD on Cooling Tower Fan | Mfg: Food | Process Cooling | Early | motor | 73,501 | 21% | 4.62 | 15 | \$3,386 | 20% | 2.91 |
| DLC | VFD on Cooling Tower Fan | Mfg: Food | Process Cooling | New | motor | 73,501 | 22% | 4.63 | 15 | \$3,451 | 20% | 2.89 |
| DLC | VFD on Cooling Tower Fan | Mfg: Food | Process Cooling | ROB | motor | 73,501 | 22% | 4.63 | 15 | \$3,451 | 20% | 2.89 |
| DLC | Improved Controls - Process Heating | Mfg: Food | Process Heating | Existing | end use | 19,528 | 17% | 0.46 | 10 | \$224 | 77% | 3.32 |
| DLC | Improved Controls - Process Heating | Mfg: Food | Process Heating | New | end use | 19,528 | 17% | 0.46 | 10 | \$224 | 77% | 3.32 |
| DLC | Process Heat O&M | Mfg: Food | Process Heating | Existing | end use | 19,528 | 16% | 0.43 | 2 | \$136 | 77% | 0.80 |
| DLC | Process Heat O&M | Mfg: Food | Process Heating | New | end use | 19,528 | 16% | 0.43 | 2 | \$136 | 77% | 0.80 |
| DLC | Facility Energy Management | Mfg: Food | Process Other | Existing | end use | 1,882 | 1.8% | 0.00 | 2 | \$0.7 | 73% | 1.02 |
| DLC | Facility Energy Management | Mfg: Food | Process Other | New | end use | 1,882 | 1.8% | 0.00 | 2 | \$0.7 | 73% | 1.02 |
| DLC | Adjustable speed drive on compressors | Mfg: Food | Process Refrigeration | Early | end use | 37,757 | 12% | 0.65 | 10 | \$698 | 81% | 2.03 |
| DLC | Adjustable speed drive on compressors | Mfg: Food | Process Refrigeration | New | end use | 37,757 | 12% | 0.65 | 10 | \$698 | 81% | 2.03 |
| DLC | Adjustable speed drive on compressors | Mfg: Food | Process Refrigeration | ROB | end use | 37,757 | 12% | 0.65 | 10 | \$698 | 81% | 2.03 |
| DLC | Cold Storage Retrofit | Mfg: Food | Process Refrigeration | Existing | end use | 37,757 | 18% | 1.01 | 10 | \$1,177 | 73% | 1.92 |
| DLC | Cold Storage Retrofit | Mfg: Food | Process Refrigeration | New | end use | 37,757 | 18% | 1.01 | 10 | \$1,177 | 73% | 1.92 |
| DLC | Cold Storage Tuneup | Mfg: Food | Process Refrigeration | Existing | end use | 37,757 | 13% | 0.75 | 3 | \$288 | 73% | 1.07 |
| DLC | Cold Storage Tuneup | Mfg: Food | Process Refrigeration | New | end use | 37,757 | 13% | 0.75 | 3 | \$288 | 73% | 1.07 |
| DLC | Cooling Tower Optimization | Mfg: Food | Process Refrigeration | Existing | building | 37,757 | 20% | 2.70 | 10 | \$232 | 15% | 6.01 |
| DLC | Food: Cooling and Storage | Mfg: Food | Process Refrigeration | Existing | end use | 37,757 | 15% | 0.83 | 10 | \$1,699 | 73% | 1.25 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--------------------------------------|-------------|-----------------------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Food: Cooling and Storage | Mfg: Food | Process Refrigeration | New | end use | 37,757 | 15% | 0.83 | 10 | \$1,699 | 73% | 1.25 |
| DLC | Optimization of operating parameters | Mfg: Food | Process Refrigeration | Existing | end use | 37,757 | 13% | 0.72 | 3 | \$305 | 73% | 1.03 |
| DLC | Optimization of operating parameters | Mfg: Food | Process Refrigeration | New | end use | 37,757 | 13% | 0.72 | 3 | \$305 | 73% | 1.03 |
| DLC | Synchronous Belts | Mfg: Food | Process Refrigeration | Early | end use | 37,757 | 1.2% | 0.06 | 10 | \$56 | 81% | 2.36 |
| DLC | Synchronous Belts | Mfg: Food | Process Refrigeration | New | end use | 37,757 | 1.2% | 0.06 | 10 | \$56 | 81% | 2.36 |
| DLC | Synchronous Belts | Mfg: Food | Process Refrigeration | ROB | end use | 37,757 | 1.2% | 0.06 | 10 | \$56 | 81% | 2.36 |
| DLC | VFD on Cooling Tower Fan | Mfg: Food | Process Refrigeration | Early | motor | 37,757 | 21% | 2.38 | 15 | \$1,740 | 20% | 2.91 |
| DLC | VFD on Cooling Tower Fan | Mfg: Food | Process Refrigeration | New | motor | 37,757 | 22% | 2.38 | 15 | \$1,773 | 20% | 2.89 |
| DLC | VFD on Cooling Tower Fan | Mfg: Food | Process Refrigeration | ROB | motor | 37,757 | 22% | 2.38 | 15 | \$1,773 | 20% | 2.89 |
| DLC | Facility Energy Management | Mfg: Food | Pumps | Existing | end use | 109,849 | 1.8% | 0.26 | 2 | \$42 | 65% | 1.02 |
| DLC | Facility Energy Management | Mfg: Food | Pumps | New | end use | 109,849 | 1.8% | 0.26 | 2 | \$42 | 65% | 1.02 |
| DLC | HE Motors | Mfg: Food | Pumps | Early | end use | 109,849 | 2.0% | 0.29 | 15 | \$654 | 69% | 1.90 |
| DLC | HE Motors | Mfg: Food | Pumps | New | end use | 109,849 | 2.0% | 0.29 | 15 | \$654 | 69% | 1.90 |
| DLC | HE Motors | Mfg: Food | Pumps | ROB | end use | 109,849 | 2.0% | 0.29 | 15 | \$654 | 69% | 1.90 |
| DLC | Motor rewinds | Mfg: Food | Pumps | Existing | end use | 109,849 | 0.6% | 0.09 | 9 | \$156 | 11% | 1.30 |
| DLC | Motor rewinds | Mfg: Food | Pumps | New | end use | 109,849 | 0.6% | 0.09 | 9 | \$156 | 11% | 1.30 |
| DLC | Pump Equipment Upgrade | Mfg: Food | Pumps | Early | end use | 109,849 | 20% | 2.86 | 12 | \$2,746 | 77% | 2.84 |
| DLC | Pump Equipment Upgrade | Mfg: Food | Pumps | New | end use | 109,849 | 20% | 2.86 | 12 | \$2,746 | 77% | 2.84 |
| DLC | Pump Equipment Upgrade | Mfg: Food | Pumps | ROB | end use | 109,849 | 20% | 2.86 | 12 | \$2,746 | 77% | 2.84 |
| DLC | Pump System Optimization | Mfg: Food | Pumps | Existing | end use | 109,849 | 8.7% | 1.24 | 12 | \$2,011 | 36% | 1.97 |
| DLC | Pump System Optimization | Mfg: Food | Pumps | New | end use | 109,849 | 8.7% | 1.24 | 12 | \$2,011 | 36% | 1.97 |
| DLC | Synchronous Belts | Mfg: Food | Pumps | Early | end use | 109,849 | 1.2% | 0.17 | 10 | \$162 | 57% | 2.32 |
| DLC | Synchronous Belts | Mfg: Food | Pumps | New | end use | 109,849 | 1.2% | 0.17 | 10 | \$162 | 57% | 2.32 |
| DLC | Synchronous Belts | Mfg: Food | Pumps | ROB | end use | 109,849 | 1.2% | 0.17 | 10 | \$162 | 57% | 2.32 |
| DLC | Circulating Fans | Mfg: Metals | Fans | Early | end use | 247,185 | 5.0% | 1.47 | 10 | \$1,505 | 68% | 2.34 |
| DLC | Circulating Fans | Mfg: Metals | Fans | New | end use | 247,185 | 5.0% | 1.47 | 10 | \$1,505 | 68% | 2.34 |
| DLC | Circulating Fans | Mfg: Metals | Fans | ROB | end use | 247,185 | 5.0% | 1.47 | 10 | \$1,505 | 68% | 2.34 |
| DLC | Facility Energy Management | Mfg: Metals | Fans | Existing | end use | 247,185 | 1.8% | 0.54 | 2 | \$95 | 77% | 1.00 |
| DLC | Facility Energy Management | Mfg: Metals | Fans | New | end use | 247,185 | 1.8% | 0.54 | 2 | \$95 | 77% | 1.00 |
| DLC | HE Motors | Mfg: Metals | Fans | Early | end use | 247,185 | 2.0% | 0.60 | 15 | \$1,472 | 77% | 1.87 |
| DLC | HE Motors | Mfg: Metals | Fans | New | end use | 247,185 | 2.0% | 0.60 | 15 | \$1,472 | 77% | 1.87 |
| DLC | HE Motors | Mfg: Metals | Fans | ROB | end use | 247,185 | 2.0% | 0.60 | 15 | \$1,472 | 77% | 1.87 |
| DLC | Improved Controls - Fans | Mfg: Metals | Fans | Existing | end use | 247,185 | 7.1% | 2.09 | 10 | \$958 | 60% | 3.59 |
| DLC | Improved Controls - Fans | Mfg: Metals | Fans | New | end use | 247,185 | 7.1% | 2.09 | 10 | \$958 | 60% | 3.59 |
| DLC | Properly Sized Fans | Mfg: Metals | Fans | Early | end use | 247,185 | 13% | 3.87 | 10 | \$5,063 | 41% | 1.99 |
| DLC | Properly Sized Fans | Mfg: Metals | Fans | New | end use | 247,185 | 13% | 3.87 | 10 | \$5,063 | 41% | 1.99 |
| DLC | Properly Sized Fans | Mfg: Metals | Fans | ROB | end use | 247,185 | 13% | 3.87 | 10 | \$5,063 | 41% | 1.99 |
| DLC | Synchronous Belts | Mfg: Metals | Fans | Early | end use | 247,185 | 1.2% | 0.34 | 10 | \$364 | 41% | 2.28 |
| DLC | Synchronous Belts | Mfg: Metals | Fans | New | end use | 247,185 | 1.2% | 0.34 | 10 | \$364 | 41% | 2.28 |
| DLC | Synchronous Belts | Mfg: Metals | Fans | ROB | end use | 247,185 | 1.2% | 0.34 | 10 | \$364 | 41% | 2.28 |
| DLC | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Metals | HVAC | Early | unit (ton) | 143,989 | 9.2% | 3.43 | 15 | \$26,229 | 28% | 0.39 |
| DLC | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Metals | HVAC | New | unit (ton) | 143,989 | 4.1% | 1.54 | 15 | \$6,355 | 28% | 0.70 |
| DLC | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Metals | HVAC | ROB | unit (ton) | 143,989 | 4.1% | 1.54 | 15 | \$6,355 | 28% | 0.70 |
| DLC | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Metals | HVAC | Early | unit (ton) | 143,989 | 12% | 4.63 | 15 | \$30,922 | 28% | 0.45 |
| DLC | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Metals | HVAC | New | unit (ton) | 143,989 | 7.7% | 2.87 | 15 | \$13,385 | 28% | 0.63 |
| DLC | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Metals | HVAC | ROB | unit (ton) | 143,989 | 7.7% | 2.87 | 15 | \$13,385 | 28% | 0.63 |
| DLC | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Metals | HVAC | Early | unit (ton) | 143,989 | 15% | 5.69 | 15 | \$35,614 | 29% | 0.47 |
| DLC | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Metals | HVAC | New | unit (ton) | 143,989 | 11% | 4.04 | 15 | \$20,414 | 29% | 0.58 |
| DLC | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Metals | HVAC | ROB | unit (ton) | 143,989 | 11% | 4.04 | 15 | \$20,414 | 29% | 0.58 |
| DLC | >760k min 10.2 EER Air Conditioner | Mfg: Metals | HVAC | Early | unit (ton) | 143,989 | 2.1% | 0.79 | 15 | \$45,677 | 35% | 0.05 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|-------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | >760k min 10.2 EER Air Conditioner | Mfg: Metals | HVAC | New | unit (ton) | 143,989 | 2.8% | 1.06 | 15 | \$4,128 | 35% | 0.74 |
| DLC | >760k min 10.2 EER Air Conditioner | Mfg: Metals | HVAC | ROB | unit (ton) | 143,989 | 2.8% | 1.06 | 15 | \$4,128 | 35% | 0.74 |
| DLC | 135-240k min 12 EER Air Conditioner | Mfg: Metals | HVAC | Early | unit (ton) | 143,989 | 10% | 3.91 | 15 | \$49,461 | 35% | 0.24 |
| DLC | 135-240k min 12 EER Air Conditioner | Mfg: Metals | HVAC | New | unit (ton) | 143,989 | 5.8% | 2.15 | 15 | \$5,840 | 35% | 1.04 |
| DLC | 135-240k min 12 EER Air Conditioner | Mfg: Metals | HVAC | ROB | unit (ton) | 143,989 | 5.8% | 2.15 | 15 | \$5,840 | 35% | 1.04 |
| DLC | 240k-760k min 11 EER Air Conditioner | Mfg: Metals | HVAC | Early | unit (ton) | 143,989 | 5.2% | 1.95 | 15 | \$45,705 | 35% | 0.13 |
| DLC | 240k-760k min 11 EER Air Conditioner | Mfg: Metals | HVAC | New | unit (ton) | 143,989 | 5.3% | 1.99 | 15 | \$4,897 | 35% | 1.14 |
| DLC | 240k-760k min 11 EER Air Conditioner | Mfg: Metals | HVAC | ROB | unit (ton) | 143,989 | 5.3% | 1.99 | 15 | \$4,897 | 35% | 1.14 |
| DLC | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Metals | HVAC | Early | unit (ton) | 143,989 | 9.7% | 3.62 | 15 | \$50,644 | 35% | 0.22 |
| DLC | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Metals | HVAC | New | unit (ton) | 143,989 | 3.8% | 1.44 | 15 | \$7,226 | 35% | 0.58 |
| DLC | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Metals | HVAC | ROB | unit (ton) | 143,989 | 3.8% | 1.44 | 15 | \$7,226 | 35% | 0.58 |
| DLC | Ceiling Insualtions (Going upto R 20) | Mfg: Metals | HVAC | Existing | building | 143,989 | 5.9% | 2.14 | 15 | \$436,264 | 71% | 0.02 |
| DLC | Ceiling Insualtions (Going upto R 20) | Mfg: Metals | HVAC | New | building | 143,989 | 3.7% | 1.34 | 15 | \$414,682 | 94% | 0.01 |
| DLC | Chiller Tuneup/Diagnostics | Mfg: Metals | HVAC | Existing | building | 143,989 | 8.0% | 4.22 | 10 | \$367,669 | 59% | 0.02 |
| DLC | Chiller Tuneup/Diagnostics | Mfg: Metals | HVAC | New | building | 143,989 | 8.0% | 4.23 | 10 | \$367,669 | 59% | 0.02 |
| DLC | Cooling Tower Optimization | Mfg: Metals | HVAC | Existing | building | 143,989 | 20% | 10.31 | 10 | \$883 | 12% | 6.05 |
| DLC | Duct Insulation, Add R8 | Mfg: Metals | HVAC | Existing | building | 143,989 | 1.5% | 0.46 | 15 | \$1,144 | 18% | 1.30 |
| DLC | Duct Insulation, Add R8 | Mfg: Metals | HVAC | New | building | 143,989 | 1.5% | 0.46 | 15 | \$1,144 | 9% | 1.30 |
| DLC | Ductless Heat Pump | Mfg: Metals | HVAC | Early | heat pump | 143,989 | 0.8% | 0.27 | 15 | \$11,436 | 83% | 0.08 |
| DLC | Ductless Heat Pump | Mfg: Metals | HVAC | New | heat pump | 143,989 | 0.4% | 0.14 | 15 | \$3,321 | 83% | 0.15 |
| DLC | Ductless Heat Pump | Mfg: Metals | HVAC | ROB | heat pump | 143,989 | 0.4% | 0.14 | 15 | \$3,321 | 83% | 0.15 |
| DLC | DX Coil Cleaning | Mfg: Metals | HVAC | Existing | building | 143,989 | 13% | 6.61 | 1 | \$1,380 | 73% | 0.43 |
| DLC | DX Coil Cleaning | Mfg: Metals | HVAC | New | building | 143,989 | 13% | 6.60 | 1 | \$1,380 | 73% | 0.43 |
| DLC | Efficient Unit Heating System | Mfg: Metals | HVAC | Early | heater | 143,989 | 6.9% | 0.08 | 15 | \$7,756 | 83% | 0.68 |
| DLC | Efficient Unit Heating System | Mfg: Metals | HVAC | New | heater | 143,989 | 4.0% | 0.05 | 15 | \$5,291 | 83% | 0.58 |
| DLC | Efficient Unit Heating System | Mfg: Metals | HVAC | ROB | heater | 143,989 | 4.0% | 0.05 | 15 | \$5,291 | 83% | 0.58 |
| DLC | Ground Source Heat Pump (Closed Loop) | Mfg: Metals | HVAC | Early | heat pump | 143,989 | 1.3% | 0.42 | 15 | \$23,746 | 19% | 0.06 |
| DLC | Ground Source Heat Pump (Closed Loop) | Mfg: Metals | HVAC | New | heat pump | 143,989 | 1.0% | 0.33 | 15 | \$9,376 | 19% | 0.12 |
| DLC | Ground Source Heat Pump (Closed Loop) | Mfg: Metals | HVAC | ROB | heat pump | 143,989 | 1.0% | 0.33 | 15 | \$9,376 | 19% | 0.12 |
| DLC | Ground Source Heat Pump (Open Loop) | Mfg: Metals | HVAC | Early | heat pump | 143,989 | 1.3% | 0.42 | 15 | \$15,208 | 19% | 0.09 |
| DLC | Ground Source Heat Pump (Open Loop) | Mfg: Metals | HVAC | New | heat pump | 143,989 | 1.0% | 0.33 | 15 | \$322 | 19% | 2.67 |
| DLC | Ground Source Heat Pump (Open Loop) | Mfg: Metals | HVAC | ROB | heat pump | 143,989 | 1.0% | 0.33 | 15 | \$322 | 19% | 2.67 |
| DLC | HE Air Cooled Chiller, 100 Tons | Mfg: Metals | HVAC | Early | unit (ton) | 143,989 | 1.5% | 0.48 | 15 | \$169,282 | 89% | 0.01 |
| DLC | HE Air Cooled Chiller, 100 Tons | Mfg: Metals | HVAC | New | unit (ton) | 143,989 | 0.4% | 0.14 | 15 | \$24,661 | 89% | 0.02 |
| DLC | HE Air Cooled Chiller, 100 Tons | Mfg: Metals | HVAC | ROB | unit (ton) | 143,989 | 0.4% | 0.14 | 15 | \$24,661 | 89% | 0.02 |
| DLC | HE Air Cooled Chiller, 150 Tons | Mfg: Metals | HVAC | Early | unit (ton) | 143,989 | 1.5% | 0.47 | 15 | \$146,221 | 89% | 0.01 |
| DLC | HE Air Cooled Chiller, 150 Tons | Mfg: Metals | HVAC | New | unit (ton) | 143,989 | 0.3% | 0.10 | 15 | \$12,111 | 89% | 0.03 |
| DLC | HE Air Cooled Chiller, 150 Tons | Mfg: Metals | HVAC | ROB | unit (ton) | 143,989 | 0.3% | 0.10 | 15 | \$12,111 | 89% | 0.03 |
| DLC | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Metals | HVAC | Early | heat pump | 143,989 | 1.4% | 0.44 | 12 | \$6,199 | 81% | 0.20 |
| DLC | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Metals | HVAC | Early | heat pump | 143,989 | 1.1% | 0.37 | 12 | \$4,529 | 81% | 0.22 |
| DLC | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Metals | HVAC | New | heat pump | 143,989 | 1.0% | 0.33 | 12 | \$2,767 | 81% | 0.32 |
| DLC | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Metals | HVAC | New | heat pump | 143,989 | 0.8% | 0.25 | 12 | \$967 | 81% | 0.66 |
| DLC | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Metals | HVAC | ROB | heat pump | 143,989 | 1.0% | 0.33 | 12 | \$2,767 | 81% | 0.32 |
| DLC | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Metals | HVAC | ROB | heat pump | 143,989 | 0.8% | 0.25 | 12 | \$967 | 81% | 0.66 |
| DLC | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Metals | HVAC | Early | unit (ton) | 143,989 | 1.6% | 0.52 | 15 | \$13,432 | 89% | 0.13 |
| DLC | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Metals | HVAC | New | unit (ton) | 143,989 | 0.9% | 0.30 | 15 | \$4,467 | 89% | 0.23 |
| DLC | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Metals | HVAC | ROB | unit (ton) | 143,989 | 0.9% | 0.30 | 15 | \$4,467 | 89% | 0.23 |
| DLC | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Metals | HVAC | Early | unit (ton) | 143,989 | 1.4% | 0.46 | 15 | \$13,118 | 89% | 0.12 |
| DLC | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Metals | HVAC | New | unit (ton) | 143,989 | 1.0% | 0.32 | 15 | \$2,562 | 89% | 0.42 |
| DLC | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Metals | HVAC | ROB | unit (ton) | 143,989 | 1.4% | 0.46 | 15 | \$2,353 | 89% | 0.63 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|-------------|----------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Metals | HVAC | Early | unit (ton) | 143,989 | 1.4% | 0.45 | 15 | \$15,526 | 89% | 0.10 |
| DLC | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Metals | HVAC | New | unit (ton) | 143,989 | 0.9% | 0.29 | 15 | \$6,537 | 89% | 0.15 |
| DLC | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Metals | HVAC | ROB | unit (ton) | 143,989 | 1.4% | 0.45 | 15 | \$5,916 | 89% | 0.26 |
| DLC | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Metals | HVAC | Early | unit (ton) | 143,989 | 1.4% | 0.45 | 15 | \$14,955 | 89% | 0.10 |
| DLC | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Metals | HVAC | New | unit (ton) | 143,989 | 0.9% | 0.29 | 15 | \$5,682 | 89% | 0.17 |
| DLC | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Metals | HVAC | ROB | unit (ton) | 143,989 | 1.4% | 0.45 | 15 | \$5,143 | 89% | 0.30 |
| DLC | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Metals | HVAC | Early | unit (ton) | 143,989 | 1.8% | 0.59 | 15 | \$16,115 | 89% | 0.12 |
| DLC | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Metals | HVAC | New | unit (ton) | 143,989 | 0.6% | 0.18 | 15 | \$9,979 | 89% | 0.06 |
| DLC | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Metals | HVAC | ROB | unit (ton) | 143,989 | 1.8% | 0.59 | 15 | \$7,748 | 89% | 0.26 |
| DLC | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Metals | HVAC | Early | unit (ton) | 143,989 | 2.2% | 0.70 | 15 | \$14,822 | 89% | 0.16 |
| DLC | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Metals | HVAC | New | unit (ton) | 143,989 | 0.8% | 0.25 | 15 | \$5,948 | 89% | 0.14 |
| DLC | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Metals | HVAC | ROB | unit (ton) | 143,989 | 0.8% | 0.25 | 15 | \$5,948 | 89% | 0.14 |
| DLC | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Metals | HVAC | Early | unit (ton) | 143,989 | 2.4% | 0.79 | 15 | \$12,562 | 89% | 0.21 |
| DLC | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Metals | HVAC | New | unit (ton) | 143,989 | 0.9% | 0.29 | 15 | \$3,161 | 89% | 0.31 |
| DLC | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Metals | HVAC | ROB | unit (ton) | 143,989 | 2.4% | 0.79 | 15 | \$2,254 | 89% | 1.08 |
| DLC | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Metals | HVAC | Early | unit (ton) | 143,989 | 1.8% | 0.60 | 15 | \$12,436 | 89% | 0.16 |
| DLC | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Metals | HVAC | New | unit (ton) | 143,989 | 0.7% | 0.22 | 15 | \$3,482 | 89% | 0.22 |
| DLC | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Metals | HVAC | ROB | unit (ton) | 143,989 | 1.8% | 0.60 | 15 | \$2,759 | 89% | 0.69 |
| DLC | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Metals | HVAC | Existing | building | 143,989 | 2.9% | 0.85 | 5 | \$1,528 | 55% | 0.55 |
| DLC | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Metals | HVAC | New | building | 143,989 | 0.6% | 0.34 | 5 | \$917 | 51% | 0.28 |
| DLC | Improved Controls - HVAC | Mfg: Metals | HVAC | Existing | end use | 143,989 | 21% | 4.32 | 10 | \$1,514 | 76% | 3.87 |
| DLC | Improved Controls - HVAC | Mfg: Metals | HVAC | New | end use | 143,989 | 21% | 4.32 | 10 | \$1,514 | 76% | 3.87 |
| DLC | Outside Air Economizer | Mfg: Metals | HVAC | Existing | building | 143,989 | 1.1% | 0.40 | 10 | \$529,043 | 82% | 0.00 |
| DLC | Outside Air Economizer | Mfg: Metals | HVAC | New | building | 143,989 | 1.1% | 0.40 | 10 | \$529,043 | 82% | 0.00 |
| DLC | Recommissioning | Mfg: Metals | HVAC | Existing | end use | 143,989 | 5.0% | 1.03 | 10 | \$197 | 88% | 4.78 |
| DLC | Recommissioning | Mfg: Metals | HVAC | New | end use | 143,989 | 5.0% | 1.03 | 10 | \$197 | 88% | 4.78 |
| DLC | Room AC (with louvered sides) | Mfg: Metals | HVAC | Early | unit (ton) | 143,989 | 7.7% | 2.50 | 9 | \$11,286 | 78% | 0.43 |
| DLC | Room AC (with louvered sides) | Mfg: Metals | HVAC | New | unit (ton) | 143,989 | 2.6% | 0.83 | 9 | \$618 | 78% | 1.95 |
| DLC | Room AC (with louvered sides) | Mfg: Metals | HVAC | ROB | unit (ton) | 143,989 | 2.6% | 0.83 | 9 | \$618 | 78% | 1.95 |
| DLC | Variable Refrigerant Flow Heat Pump | Mfg: Metals | HVAC | New | measure | 143,989 | 0.1% | 0.04 | 13 | \$1,065 | 43% | 0.10 |
| DLC | Variable Refrigerant Flow Heat Pump | Mfg: Metals | HVAC | ROB | measure | 143,989 | 0.1% | 0.04 | 13 | \$1,065 | 43% | 0.10 |
| DLC | VFD on Cooling Tower Fan | Mfg: Metals | HVAC | Early | motor | 143,989 | 21% | 9.06 | 15 | \$6,634 | 15% | 2.92 |
| DLC | VFD on Cooling Tower Fan | Mfg: Metals | HVAC | New | motor | 143,989 | 22% | 9.06 | 15 | \$6,761 | 15% | 2.90 |
| DLC | VFD on Cooling Tower Fan | Mfg: Metals | HVAC | ROB | motor | 143,989 | 22% | 9.06 | 15 | \$6,761 | 15% | 2.90 |
| DLC | Wall Insualtions (Going upto R 21) | Mfg: Metals | HVAC | Existing | building | 143,989 | 19% | 6.88 | 15 | \$102,429 | 26% | 0.21 |
| DLC | Wall Insualtions (Going upto R 21) | Mfg: Metals | HVAC | New | building | 143,989 | 0.6% | 0.22 | 15 | \$78,568 | 94% | 0.01 |
| DLC | Water Source Heat Pump (4 ton) | Mfg: Metals | HVAC | Early | heat pump | 143,989 | 1.5% | 0.50 | 15 | \$24,590 | 28% | 0.07 |
| DLC | Water Source Heat Pump (4 ton) | Mfg: Metals | HVAC | New | heat pump | 143,989 | 1.1% | 0.37 | 15 | \$11,985 | 28% | 0.10 |
| DLC | Water Source Heat Pump (4 ton) | Mfg: Metals | HVAC | ROB | heat pump | 143,989 | 1.1% | 0.37 | 15 | \$11,985 | 28% | 0.10 |
| DLC | Efficient Metal Halide (High Bay) | Mfg: Metals | Lighting | Early | end use | 142,694 | 42% | 0.00 | 9 | \$22,298 | 53% | 0.73 |
| DLC | Efficient Metal Halide (High Bay) | Mfg: Metals | Lighting | New | end use | 142,694 | 41% | 0.00 | 13 | \$595,577 | 61% | 0.05 |
| DLC | Efficient Metal Halide (High Bay) | Mfg: Metals | Lighting | ROB | end use | 142,694 | 41% | 0.00 | 13 | \$455,173 | 61% | 0.06 |
| DLC | Induction (High Bay) | Mfg: Metals | Lighting | Early | end use | 142,694 | 94% | 0.00 | 13 | \$66,345 | 95% | 0.88 |
| DLC | Induction (High Bay) | Mfg: Metals | Lighting | New | end use | 142,694 | 94% | 0.00 | 13 | \$62,115 | 95% | 0.93 |
| DLC | Induction (High Bay) | Mfg: Metals | Lighting | ROB | end use | 142,694 | 94% | 0.00 | 13 | \$47,210 | 95% | 1.18 |
| DLC | LED (High Bay) | Mfg: Metals | Lighting | Early | end use | 142,694 | 69% | 0.00 | 14 | \$78,098 | 95% | 0.61 |
| DLC | LED (High Bay) | Mfg: Metals | Lighting | New | end use | 142,694 | 55% | 0.00 | 14 | \$86,686 | 95% | 0.45 |
| DLC | LED (High Bay) | Mfg: Metals | Lighting | ROB | end use | 142,694 | 59% | 0.00 | 14 | \$57,116 | 95% | 0.71 |
| DLC | Lighting Controls | Mfg: Metals | Lighting | Existing | end use | 142,694 | 20% | 0.00 | 6 | \$534,943 | 16% | 0.01 |
| DLC | Lighting Controls | Mfg: Metals | Lighting | New | end use | 142,694 | 12% | 0.00 | 10 | \$711,648 | 11% | 0.01 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---------------------------------------|-------------|----------|----------|---------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Linear Fluorescent (High Bay) | Mfg: Metals | Lighting | Early | end use | 142,694 | 17% | 0.00 | 14 | \$16,327 | 98% | 0.71 |
| DLC | Linear Fluorescent (High Bay) | Mfg: Metals | Lighting | New | end use | 142,694 | 13% | 0.00 | 14 | \$5,178 | 91% | 1.50 |
| DLC | Linear Fluorescent (High Bay) | Mfg: Metals | Lighting | ROB | end use | 142,694 | 13% | 0.00 | 14 | \$3,315 | 91% | 2.16 |
| DLC | Metal Halide (High Bay) | Mfg: Metals | Lighting | Early | end use | 142,694 | 62% | 0.00 | 13 | \$98,093 | 38% | 0.42 |
| DLC | Metal Halide (High Bay) | Mfg: Metals | Lighting | New | end use | 142,694 | 73% | 0.00 | 13 | \$23,453 | 38% | 1.67 |
| DLC | Metal Halide (High Bay) | Mfg: Metals | Lighting | ROB | end use | 142,694 | 73% | 0.00 | 13 | \$17,824 | 38% | 2.05 |
| DLC | Screw Base CFL | Mfg: Metals | Lighting | Early | end use | 142,694 | 80% | 0.00 | 7 | \$38,767 | 17% | 0.54 |
| DLC | Screw Base CFL | Mfg: Metals | Lighting | New | end use | 142,694 | 73% | 0.00 | 9 | \$31,682 | 18% | 0.85 |
| DLC | Screw Base CFL | Mfg: Metals | Lighting | ROB | end use | 142,694 | 73% | 0.00 | 9 | \$26,518 | 17% | 0.98 |
| DLC | Screw Base LED | Mfg: Metals | Lighting | Early | end use | 142,694 | 76% | 0.00 | 9 | \$23,791 | 21% | 1.17 |
| DLC | Screw Base LED | Mfg: Metals | Lighting | New | end use | 142,694 | 77% | 0.00 | 9 | \$13,253 | 20% | 1.79 |
| DLC | Screw Base LED | Mfg: Metals | Lighting | ROB | end use | 142,694 | 77% | 0.00 | 9 | \$10,521 | 21% | 2.05 |
| DLC | T8 High Performance Linear Florescent | Mfg: Metals | Lighting | Early | end use | 142,694 | 36% | 0.00 | 14 | \$13,655 | 71% | 1.59 |
| DLC | T8 High Performance Linear Florescent | Mfg: Metals | Lighting | New | end use | 142,694 | 26% | 0.00 | 14 | \$4,885 | 76% | 2.67 |
| DLC | T8 High Performance Linear Florescent | Mfg: Metals | Lighting | ROB | end use | 142,694 | 26% | 0.00 | 14 | \$3,713 | 76% | 3.16 |
| DLC | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Metals | Motors | Early | end use | 78,040 | 0.9% | 0.10 | 15 | \$1,192 | 81% | 0.40 |
| DLC | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Metals | Motors | New | end use | 78,040 | 0.9% | 0.10 | 15 | \$1,192 | 81% | 0.40 |
| DLC | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Metals | Motors | ROB | end use | 78,040 | 0.9% | 0.10 | 15 | \$1,192 | 81% | 0.40 |
| DLC | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Metals | Motors | Early | end use | 78,040 | 0.8% | 0.08 | 15 | \$724 | 73% | 0.54 |
| DLC | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Metals | Motors | New | end use | 78,040 | 0.8% | 0.08 | 15 | \$724 | 73% | 0.54 |
| DLC | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Metals | Motors | ROB | end use | 78,040 | 0.8% | 0.08 | 15 | \$724 | 73% | 0.54 |
| DLC | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Metals | Motors | Early | end use | 78,040 | 0.5% | 0.05 | 15 | \$278 | 81% | 0.83 |
| DLC | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Metals | Motors | New | end use | 78,040 | 0.5% | 0.05 | 15 | \$278 | 81% | 0.83 |
| DLC | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Metals | Motors | ROB | end use | 78,040 | 0.5% | 0.05 | 15 | \$278 | 81% | 0.82 |
| DLC | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Metals | Motors | Early | end use | 78,040 | 0.4% | 0.04 | 15 | \$92 | 73% | 1.91 |
| DLC | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Metals | Motors | New | end use | 78,040 | 0.4% | 0.04 | 15 | \$92 | 73% | 1.90 |
| DLC | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Metals | Motors | ROB | end use | 78,040 | 0.4% | 0.04 | 15 | \$92 | 73% | 1.90 |
| DLC | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Metals | Motors | Early | end use | 78,040 | 0.9% | 0.10 | 15 | \$137 | 47% | 2.65 |
| DLC | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Metals | Motors | New | end use | 78,040 | 0.9% | 0.10 | 15 | \$137 | 47% | 2.66 |
| DLC | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Metals | Motors | ROB | end use | 78,040 | 0.9% | 0.10 | 15 | \$137 | 47% | 2.67 |
| DLC | Facility Energy Management | Mfg: Metals | Motors | Existing | end use | 78,040 | 1.8% | 0.21 | 2 | \$30 | 77% | 1.02 |
| DLC | Facility Energy Management | Mfg: Metals | Motors | New | end use | 78,040 | 1.8% | 0.21 | 2 | \$30 | 77% | 1.02 |
| DLC | HE Motors | Mfg: Metals | Motors | Early | end use | 78,040 | 2.0% | 0.23 | 15 | \$465 | 38% | 1.93 |
| DLC | HE Motors | Mfg: Metals | Motors | New | end use | 78,040 | 2.0% | 0.23 | 15 | \$465 | 38% | 1.93 |
| DLC | HE Motors | Mfg: Metals | Motors | ROB | end use | 78,040 | 2.0% | 0.23 | 15 | \$465 | 38% | 1.93 |
| DLC | High-Efficiency Ventilation System | Mfg: Metals | Motors | Early | end use | 78,040 | 5.7% | 0.63 | 10 | \$4,877 | 73% | 0.39 |
| DLC | High-Efficiency Ventilation System | Mfg: Metals | Motors | New | end use | 78,040 | 5.7% | 0.63 | 10 | \$4,877 | 73% | 0.40 |
| DLC | High-Efficiency Ventilation System | Mfg: Metals | Motors | ROB | end use | 78,040 | 5.7% | 0.63 | 10 | \$4,877 | 73% | 0.40 |
| DLC | Improved Controls - Motors | Mfg: Metals | Motors | Existing | end use | 78,040 | 4.0% | 0.44 | 10 | \$339 | 73% | 2.57 |
| DLC | Improved Controls - Motors | Mfg: Metals | Motors | New | end use | 78,040 | 4.0% | 0.44 | 10 | \$339 | 73% | 2.57 |
| DLC | Motor Management Plan | Mfg: Metals | Motors | Existing | end use | 78,040 | 2.9% | 0.32 | 10 | \$159 | 73% | 3.29 |
| DLC | Motor Management Plan | Mfg: Metals | Motors | New | end use | 78,040 | 2.9% | 0.32 | 10 | \$159 | 73% | 3.29 |
| DLC | Motors Other | Mfg: Metals | Motors | Existing | end use | 78,040 | 1.1% | 0.12 | 15 | \$16 | 83% | 7.86 |
| DLC | Motors Other | Mfg: Metals | Motors | New | end use | 78,040 | 1.1% | 0.12 | 15 | \$16 | 83% | 7.86 |
| DLC | Motors: Rewind 101-200 HP | Mfg: Metals | Motors | Existing | end use | 78,040 | 0.6% | 0.06 | 10 | \$99 | 27% | 1.55 |
| DLC | Motors: Rewind 101-200 HP | Mfg: Metals | Motors | New | end use | 78,040 | 0.6% | 0.06 | 10 | \$99 | 27% | 1.55 |
| DLC | Motors: Rewind 201-500 HP | Mfg: Metals | Motors | Existing | end use | 78,040 | 0.5% | 0.06 | 8 | \$62 | 27% | 1.64 |
| DLC | Motors: Rewind 201-500 HP | Mfg: Metals | Motors | New | end use | 78,040 | 0.5% | 0.06 | 8 | \$62 | 27% | 1.64 |
| DLC | Motors: Rewind 20-50 HP | Mfg: Metals | Motors | Existing | end use | 78,040 | 1.0% | 0.11 | 11 | \$290 | 42% | 1.22 |
| DLC | Motors: Rewind 20-50 HP | Mfg: Metals | Motors | New | end use | 78,040 | 1.0% | 0.11 | 11 | \$290 | 42% | 1.22 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|-------------|------------------------|----------|---------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Motors: Rewind 500+ HP | Mfg: Metals | Motors | Existing | end use | 78,040 | 0.6% | 0.06 | 8 | \$44 | 11% | 2.06 |
| DLC | Motors: Rewind 500+ HP | Mfg: Metals | Motors | New | end use | 78,040 | 0.6% | 0.06 | 8 | \$44 | 11% | 2.06 |
| DLC | Motors: Rewind 51-100 HP | Mfg: Metals | Motors | Existing | end use | 78,040 | 0.6% | 0.07 | 9 | \$143 | 42% | 1.09 |
| DLC | Motors: Rewind 51-100 HP | Mfg: Metals | Motors | New | end use | 78,040 | 0.6% | 0.07 | 9 | \$143 | 42% | 1.09 |
| DLC | Switch from Belt drive to Direct Drive | Mfg: Metals | Motors | Early | end use | 78,040 | 7.5% | 0.84 | 12 | \$1,252 | 30% | 1.98 |
| DLC | Switch from Belt drive to Direct Drive | Mfg: Metals | Motors | New | end use | 78,040 | 7.5% | 0.84 | 12 | \$1,252 | 30% | 1.98 |
| DLC | Switch from Belt drive to Direct Drive | Mfg: Metals | Motors | ROB | end use | 78,040 | 7.5% | 0.84 | 12 | \$1,252 | 30% | 1.98 |
| DLC | Synchronous Belts | Mfg: Metals | Motors | Early | end use | 78,040 | 1.2% | 0.13 | 10 | \$115 | 30% | 2.36 |
| DLC | Synchronous Belts | Mfg: Metals | Motors | New | end use | 78,040 | 1.2% | 0.13 | 10 | \$115 | 30% | 2.36 |
| DLC | Synchronous Belts | Mfg: Metals | Motors | ROB | end use | 78,040 | 1.2% | 0.13 | 10 | \$115 | 30% | 2.36 |
| DLC | Bldg Improvements | Mfg: Metals | Other | Existing | end use | 50,328 | 16% | 0.97 | 15 | \$1,097 | 72% | 3.29 |
| DLC | Bldg Improvements | Mfg: Metals | Other | New | end use | 50,328 | 16% | 0.97 | 15 | \$1,097 | 72% | 3.29 |
| DLC | Energy Project Management | Mfg: Metals | Other | Existing | end use | 50,328 | 29% | 1.74 | 11 | \$1,796 | 63% | 2.57 |
| DLC | Energy Project Management | Mfg: Metals | Other | New | end use | 50,328 | 29% | 1.74 | 11 | \$1,796 | 63% | 2.57 |
| DLC | Facility Energy Management | Mfg: Metals | Other | Existing | end use | 50,328 | 1.8% | 0.11 | 2 | \$19 | 76% | 0.99 |
| DLC | Facility Energy Management | Mfg: Metals | Other | New | end use | 50,328 | 1.8% | 0.11 | 2 | \$19 | 76% | 0.99 |
| DLC | Integrated Plant Energy Management | Mfg: Metals | Other | Existing | end use | 50,328 | 50% | 3.00 | 11 | \$4,961 | 48% | 1.86 |
| DLC | Integrated Plant Energy Management | Mfg: Metals | Other | New | end use | 50,328 | 50% | 3.00 | 11 | \$4,961 | 48% | 1.86 |
| DLC | Plant Energy Management | Mfg: Metals | Other | Existing | end use | 50,328 | 12% | 0.72 | 10 | \$126 | 55% | 4.91 |
| DLC | Plant Energy Management | Mfg: Metals | Other | New | end use | 50,328 | 12% | 0.72 | 10 | \$126 | 55% | 4.91 |
| DLC | Transformers | Mfg: Metals | Other | Early | end use | 50,328 | 1.6% | 0.10 | 15 | \$161 | 34% | 2.50 |
| DLC | Transformers | Mfg: Metals | Other | New | end use | 50,328 | 1.6% | 0.10 | 15 | \$161 | 34% | 2.51 |
| DLC | Transformers | Mfg: Metals | Other | ROB | end use | 50,328 | 1.6% | 0.10 | 15 | \$161 | 34% | 2.51 |
| DLC | Air Compressor Demand Reduction | Mfg: Metals | Process Air Compressor | Existing | end use | 7,298 | 26% | 0.24 | 10 | \$109 | 40% | 3.54 |
| DLC | Air Compressor Demand Reduction | Mfg: Metals | Process Air Compressor | New | end use | 7,298 | 26% | 0.24 | 10 | \$109 | 40% | 3.54 |
| DLC | Air Compressor Equipment | Mfg: Metals | Process Air Compressor | Early | end use | 7,298 | 39% | 0.37 | 10 | \$132 | 56% | 3.89 |
| DLC | Air Compressor Equipment | Mfg: Metals | Process Air Compressor | New | end use | 7,298 | 39% | 0.37 | 10 | \$132 | 56% | 3.89 |
| DLC | Air Compressor Equipment | Mfg: Metals | Process Air Compressor | ROB | end use | 7,298 | 39% | 0.37 | 10 | \$132 | 56% | 3.89 |
| DLC | Air Compressor Optimization | Mfg: Metals | Process Air Compressor | Existing | end use | 7,298 | 39% | 0.37 | 10 | \$318 | 42% | 2.51 |
| DLC | Air Compressor Optimization | Mfg: Metals | Process Air Compressor | New | end use | 7,298 | 39% | 0.37 | 10 | \$318 | 42% | 2.51 |
| DLC | Facility Energy Management | Mfg: Metals | Process Air Compressor | Existing | end use | 7,298 | 1.8% | 0.02 | 2 | \$2.8 | 50% | 1.00 |
| DLC | Facility Energy Management | Mfg: Metals | Process Air Compressor | New | end use | 7,298 | 1.8% | 0.02 | 2 | \$2.8 | 50% | 1.00 |
| DLC | HE Compressor motors | Mfg: Metals | Process Air Compressor | Early | end use | 7,298 | 1.1% | 0.01 | 15 | \$28 | 56% | 1.67 |
| DLC | HE Compressor motors | Mfg: Metals | Process Air Compressor | New | end use | 7,298 | 1.1% | 0.01 | 15 | \$28 | 56% | 1.67 |
| DLC | HE Compressor motors | Mfg: Metals | Process Air Compressor | ROB | end use | 7,298 | 1.1% | 0.01 | 15 | \$28 | 56% | 1.66 |
| DLC | Improved Controls - Air Compressor | Mfg: Metals | Process Air Compressor | Existing | end use | 7,298 | 41% | 0.39 | 10 | \$130 | 19% | 3.98 |
| DLC | Improved Controls - Air Compressor | Mfg: Metals | Process Air Compressor | New | end use | 7,298 | 41% | 0.39 | 10 | \$130 | 19% | 3.98 |
| DLC | Low Pressure-drop Filters | Mfg: Metals | Process Air Compressor | Existing | end use | 7,298 | 1.8% | 0.02 | 10 | \$83 | 46% | 0.66 |
| DLC | Low Pressure-drop Filters | Mfg: Metals | Process Air Compressor | New | end use | 7,298 | 1.8% | 0.02 | 10 | \$83 | 46% | 0.66 |
| DLC | Outside Air Intake | Mfg: Metals | Process Air Compressor | Existing | end use | 7,298 | 1.4% | 0.01 | 10 | \$48 | 37% | 0.86 |
| DLC | Outside Air Intake | Mfg: Metals | Process Air Compressor | New | end use | 7,298 | 1.4% | 0.01 | 10 | \$48 | 37% | 0.86 |
| DLC | Receiver Capacity Addition | Mfg: Metals | Process Air Compressor | Existing | end use | 7,298 | 5.9% | 0.06 | 10 | \$136 | 28% | 1.19 |
| DLC | Receiver Capacity Addition | Mfg: Metals | Process Air Compressor | New | end use | 7,298 | 5.9% | 0.06 | 10 | \$136 | 28% | 1.19 |
| DLC | Refrigerated Cycling Dryers | Mfg: Metals | Process Air Compressor | Early | end use | 7,298 | 1.7% | 0.02 | 10 | \$17 | 16% | 2.20 |
| DLC | Refrigerated Cycling Dryers | Mfg: Metals | Process Air Compressor | New | end use | 7,298 | 1.7% | 0.02 | 10 | \$17 | 16% | 2.19 |
| DLC | Refrigerated Cycling Dryers | Mfg: Metals | Process Air Compressor | ROB | end use | 7,298 | 1.7% | 0.02 | 10 | \$17 | 16% | 2.19 |
| DLC | VFD Controlled Compressor | Mfg: Metals | Process Air Compressor | Early | end use | 7,298 | 24% | 0.23 | 10 | \$718 | 22% | 0.94 |
| DLC | VFD Controlled Compressor | Mfg: Metals | Process Air Compressor | New | end use | 7,298 | 24% | 0.23 | 10 | \$718 | 22% | 0.94 |
| DLC | VFD Controlled Compressor | Mfg: Metals | Process Air Compressor | ROB | end use | 7,298 | 24% | 0.23 | 10 | \$718 | 22% | 0.94 |
| DLC | Zero Loss Condensate Drain | Mfg: Metals | Process Air Compressor | Early | end use | 7,298 | 1.8% | 0.02 | 10 | \$42 | 28% | 1.19 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---------------------------------------|-------------|------------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Zero Loss Condensate Drain | Mfg: Metals | Process Air Compressor | New | end use | 7,298 | 1.9% | 0.02 | 10 | \$42 | 28% | 1.20 |
| DLC | Zero Loss Condensate Drain | Mfg: Metals | Process Air Compressor | ROB | end use | 7,298 | 1.9% | 0.02 | 10 | \$42 | 28% | 1.20 |
| DLC | Cooling Tower Optimization | Mfg: Metals | Process Cooling | Existing | building | 23,915 | 20% | 1.71 | 10 | \$147 | 15% | 6.01 |
| DLC | Equipment: Chillers | Mfg: Metals | Process Cooling | Early | end use | 23,915 | 18% | 0.89 | 15 | \$1,122 | 39% | 2.28 |
| DLC | Equipment: Chillers | Mfg: Metals | Process Cooling | New | end use | 23,915 | 18% | 0.89 | 15 | \$1,122 | 39% | 2.28 |
| DLC | Equipment: Chillers | Mfg: Metals | Process Cooling | ROB | end use | 23,915 | 18% | 0.89 | 15 | \$1,122 | 39% | 2.28 |
| DLC | Facility Energy Management | Mfg: Metals | Process Cooling | Existing | end use | 23,915 | 1.8% | 0.09 | 2 | \$9.2 | 50% | 1.14 |
| DLC | Facility Energy Management | Mfg: Metals | Process Cooling | New | end use | 23,915 | 1.8% | 0.09 | 2 | \$9.2 | 50% | 1.14 |
| DLC | Improved Controls - Process Cooling | Mfg: Metals | Process Cooling | Existing | end use | 23,915 | 6.0% | 0.30 | 10 | \$1,263 | 47% | 0.54 |
| DLC | Improved Controls - Process Cooling | Mfg: Metals | Process Cooling | New | end use | 23,915 | 6.0% | 0.30 | 10 | \$1,263 | 47% | 0.54 |
| DLC | VFD on Cooling Tower Fan | Mfg: Metals | Process Cooling | Early | motor | 23,915 | 21% | 1.50 | 15 | \$1,102 | 20% | 2.91 |
| DLC | VFD on Cooling Tower Fan | Mfg: Metals | Process Cooling | New | motor | 23,915 | 22% | 1.50 | 15 | \$1,123 | 20% | 2.89 |
| DLC | VFD on Cooling Tower Fan | Mfg: Metals | Process Cooling | ROB | motor | 23,915 | 22% | 1.50 | 15 | \$1,123 | 20% | 2.89 |
| DLC | Improved Controls - Process Heating | Mfg: Metals | Process Heating | Existing | end use | 915,864 | 17% | 21.52 | 10 | \$10,523 | 89% | 3.32 |
| DLC | Improved Controls - Process Heating | Mfg: Metals | Process Heating | New | end use | 915,864 | 17% | 21.52 | 10 | \$10,523 | 89% | 3.32 |
| DLC | Metal: New Arc Furnace | Mfg: Metals | Process Heating | Early | end use | 915,864 | 45% | 56.30 | 10 | \$38,052 | 38% | 2.80 |
| DLC | Metal: New Arc Furnace | Mfg: Metals | Process Heating | New | end use | 915,864 | 45% | 56.30 | 10 | \$38,052 | 38% | 2.80 |
| DLC | Metal: New Arc Furnace | Mfg: Metals | Process Heating | ROB | end use | 915,864 | 45% | 56.30 | 10 | \$38,052 | 38% | 2.80 |
| DLC | Process Heat O&M | Mfg: Metals | Process Heating | Existing | end use | 915,864 | 16% | 20.36 | 2 | \$6,360 | 89% | 0.80 |
| DLC | Process Heat O&M | Mfg: Metals | Process Heating | New | end use | 915,864 | 16% | 20.36 | 2 | \$6,360 | 89% | 0.80 |
| DLC | Facility Energy Management | Mfg: Metals | Process Other | Existing | end use | 439,555 | 1.8% | 1.14 | 2 | \$169 | 73% | 1.02 |
| DLC | Facility Energy Management | Mfg: Metals | Process Other | New | end use | 439,555 | 1.8% | 1.14 | 2 | \$169 | 73% | 1.02 |
| DLC | Adjustable speed drive on compressors | Mfg: Metals | Process Refrigeration | Early | end use | 12,285 | 12% | 0.21 | 10 | \$227 | 30% | 2.03 |
| DLC | Adjustable speed drive on compressors | Mfg: Metals | Process Refrigeration | New | end use | 12,285 | 12% | 0.21 | 10 | \$227 | 30% | 2.03 |
| DLC | Adjustable speed drive on compressors | Mfg: Metals | Process Refrigeration | ROB | end use | 12,285 | 12% | 0.21 | 10 | \$227 | 30% | 2.03 |
| DLC | Cooling Tower Optimization | Mfg: Metals | Process Refrigeration | Existing | building | 12,285 | 20% | 0.88 | 10 | \$75 | 15% | 6.01 |
| DLC | Optimization of operating parameters | Mfg: Metals | Process Refrigeration | Existing | end use | 12,285 | 13% | 0.24 | 3 | \$99 | 27% | 1.03 |
| DLC | Optimization of operating parameters | Mfg: Metals | Process Refrigeration | New | end use | 12,285 | 13% | 0.24 | 3 | \$99 | 27% | 1.03 |
| DLC | Synchronous Belts | Mfg: Metals | Process Refrigeration | Early | end use | 12,285 | 1.2% | 0.02 | 10 | \$18 | 30% | 2.36 |
| DLC | Synchronous Belts | Mfg: Metals | Process Refrigeration | New | end use | 12,285 | 1.2% | 0.02 | 10 | \$18 | 30% | 2.36 |
| DLC | Synchronous Belts | Mfg: Metals | Process Refrigeration | ROB | end use | 12,285 | 1.2% | 0.02 | 10 | \$18 | 30% | 2.36 |
| DLC | VFD on Cooling Tower Fan | Mfg: Metals | Process Refrigeration | Early | motor | 12,285 | 21% | 0.77 | 15 | \$566 | 20% | 2.91 |
| DLC | VFD on Cooling Tower Fan | Mfg: Metals | Process Refrigeration | New | motor | 12,285 | 22% | 0.77 | 15 | \$577 | 20% | 2.89 |
| DLC | VFD on Cooling Tower Fan | Mfg: Metals | Process Refrigeration | ROB | motor | 12,285 | 22% | 0.77 | 15 | \$577 | 20% | 2.89 |
| DLC | Facility Energy Management | Mfg: Metals | Pumps | Existing | end use | 437,457 | 1.8% | 1.05 | 2 | \$169 | 69% | 1.02 |
| DLC | Facility Energy Management | Mfg: Metals | Pumps | New | end use | 437,457 | 1.8% | 1.05 | 2 | \$169 | 69% | 1.02 |
| DLC | HE Motors | Mfg: Metals | Pumps | Early | end use | 437,457 | 2.0% | 1.16 | 15 | \$2,604 | 73% | 1.90 |
| DLC | HE Motors | Mfg: Metals | Pumps | New | end use | 437,457 | 2.0% | 1.16 | 15 | \$2,604 | 73% | 1.90 |
| DLC | HE Motors | Mfg: Metals | Pumps | ROB | end use | 437,457 | 2.0% | 1.16 | 15 | \$2,604 | 73% | 1.90 |
| DLC | Motor rewinds | Mfg: Metals | Pumps | Existing | end use | 437,457 | 0.6% | 0.34 | 9 | \$622 | 11% | 1.30 |
| DLC | Motor rewinds | Mfg: Metals | Pumps | New | end use | 437,457 | 0.6% | 0.34 | 9 | \$622 | 11% | 1.30 |
| DLC | Synchronous Belts | Mfg: Metals | Pumps | Early | end use | 437,457 | 1.2% | 0.66 | 10 | \$645 | 61% | 2.32 |
| DLC | Synchronous Belts | Mfg: Metals | Pumps | New | end use | 437,457 | 1.2% | 0.66 | 10 | \$645 | 61% | 2.32 |
| DLC | Synchronous Belts | Mfg: Metals | Pumps | ROB | end use | 437,457 | 1.2% | 0.66 | 10 | \$645 | 61% | 2.32 |
| DLC | Circulating Fans | Mfg: Other | Fans | Early | end use | 506,838 | 5.0% | 3.02 | 10 | \$3,085 | 68% | 2.34 |
| DLC | Circulating Fans | Mfg: Other | Fans | New | end use | 506,838 | 5.0% | 3.02 | 10 | \$3,085 | 68% | 2.34 |
| DLC | Circulating Fans | Mfg: Other | Fans | ROB | end use | 506,838 | 5.0% | 3.02 | 10 | \$3,085 | 68% | 2.34 |
| DLC | Facility Energy Management | Mfg: Other | Fans | Existing | end use | 506,838 | 1.8% | 1.11 | 2 | \$195 | 77% | 1.00 |
| DLC | Facility Energy Management | Mfg: Other | Fans | New | end use | 506,838 | 1.8% | 1.11 | 2 | \$195 | 77% | 1.00 |
| DLC | Fan Equipment Upgrade | Mfg: Other | Fans | Early | end use | 506,838 | 35% | 21.12 | 10 | \$15,205 | 68% | 2.88 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Fan Equipment Upgrade | Mfg: Other | Fans | New | end use | 506,838 | 35% | 21.12 | 10 | \$15,205 | 68% | 2.88 |
| DLC | Fan Equipment Upgrade | Mfg: Other | Fans | ROB | end use | 506,838 | 35% | 21.12 | 10 | \$15,205 | 68% | 2.88 |
| DLC | Fan System Optimization | Mfg: Other | Fans | Existing | end use | 506,838 | 7.3% | 4.43 | 10 | \$6,913 | 83% | 1.75 |
| DLC | Fan System Optimization | Mfg: Other | Fans | New | end use | 506,838 | 7.3% | 4.43 | 10 | \$6,913 | 83% | 1.75 |
| DLC | HE Motors | Mfg: Other | Fans | Early | end use | 506,838 | 2.0% | 1.23 | 15 | \$3,017 | 77% | 1.87 |
| DLC | HE Motors | Mfg: Other | Fans | New | end use | 506,838 | 2.0% | 1.23 | 15 | \$3,017 | 77% | 1.87 |
| DLC | HE Motors | Mfg: Other | Fans | ROB | end use | 506,838 | 2.0% | 1.23 | 15 | \$3,017 | 77% | 1.87 |
| DLC | Improved Controls - Fans | Mfg: Other | Fans | Existing | end use | 506,838 | 7.1% | 4.29 | 10 | \$1,965 | 88% | 3.59 |
| DLC | Improved Controls - Fans | Mfg: Other | Fans | New | end use | 506,838 | 7.1% | 4.29 | 10 | \$1,965 | 88% | 3.59 |
| DLC | Properly Sized Fans | Mfg: Other | Fans | Early | end use | 506,838 | 13% | 7.94 | 10 | \$10,381 | 41% | 1.99 |
| DLC | Properly Sized Fans | Mfg: Other | Fans | New | end use | 506,838 | 13% | 7.94 | 10 | \$10,381 | 41% | 1.99 |
| DLC | Properly Sized Fans | Mfg: Other | Fans | ROB | end use | 506,838 | 13% | 7.94 | 10 | \$10,381 | 41% | 1.99 |
| DLC | Synchronous Belts | Mfg: Other | Fans | Early | end use | 506,838 | 1.2% | 0.70 | 10 | \$747 | 41% | 2.28 |
| DLC | Synchronous Belts | Mfg: Other | Fans | New | end use | 506,838 | 1.2% | 0.70 | 10 | \$747 | 41% | 2.28 |
| DLC | Synchronous Belts | Mfg: Other | Fans | ROB | end use | 506,838 | 1.2% | 0.70 | 10 | \$747 | 41% | 2.28 |
| DLC | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Other | HVAC | Early | unit (ton) | 1,022,977 | 9.2% | 24.34 | 15 | \$186,348 | 28% | 0.39 |
| DLC | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Other | HVAC | New | unit (ton) | 1,022,977 | 4.1% | 10.93 | 15 | \$45,149 | 28% | 0.70 |
| DLC | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Other | HVAC | ROB | unit (ton) | 1,022,977 | 4.1% | 10.93 | 15 | \$45,149 | 28% | 0.70 |
| DLC | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Other | HVAC | Early | unit (ton) | 1,022,977 | 12% | 32.92 | 15 | \$219,684 | 28% | 0.45 |
| DLC | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Other | HVAC | New | unit (ton) | 1,022,977 | 7.7% | 20.41 | 15 | \$95,092 | 28% | 0.63 |
| DLC | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Other | HVAC | ROB | unit (ton) | 1,022,977 | 7.7% | 20.41 | 15 | \$95,092 | 28% | 0.63 |
| DLC | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Other | HVAC | Early | unit (ton) | 1,022,977 | 15% | 40.43 | 15 | \$253,021 | 29% | 0.47 |
| DLC | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Other | HVAC | New | unit (ton) | 1,022,977 | 11% | 28.70 | 15 | \$145,035 | 29% | 0.58 |
| DLC | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Other | HVAC | ROB | unit (ton) | 1,022,977 | 11% | 28.70 | 15 | \$145,035 | 29% | 0.58 |
| DLC | >760k min 10.2 EER Air Conditioner | Mfg: Other | HVAC | Early | unit (ton) | 1,022,977 | 2.1% | 5.64 | 15 | \$324,512 | 35% | 0.05 |
| DLC | >760k min 10.2 EER Air Conditioner | Mfg: Other | HVAC | New | unit (ton) | 1,022,977 | 2.8% | 7.50 | 15 | \$29,329 | 35% | 0.74 |
| DLC | >760k min 10.2 EER Air Conditioner | Mfg: Other | HVAC | ROB | unit (ton) | 1,022,977 | 2.8% | 7.50 | 15 | \$29,329 | 35% | 0.74 |
| DLC | 135-240k min 12 EER Air Conditioner | Mfg: Other | HVAC | Early | unit (ton) | 1,022,977 | 10% | 27.75 | 15 | \$351,396 | 35% | 0.24 |
| DLC | 135-240k min 12 EER Air Conditioner | Mfg: Other | HVAC | New | unit (ton) | 1,022,977 | 5.8% | 15.31 | 15 | \$41,491 | 35% | 1.04 |
| DLC | 135-240k min 12 EER Air Conditioner | Mfg: Other | HVAC | ROB | unit (ton) | 1,022,977 | 5.8% | 15.31 | 15 | \$41,491 | 35% | 1.04 |
| DLC | 240k-760k min 11 EER Air Conditioner | Mfg: Other | HVAC | Early | unit (ton) | 1,022,977 | 5.2% | 13.83 | 15 | \$324,716 | 35% | 0.13 |
| DLC | 240k-760k min 11 EER Air Conditioner | Mfg: Other | HVAC | New | unit (ton) | 1,022,977 | 5.3% | 14.17 | 15 | \$34,788 | 35% | 1.14 |
| DLC | 240k-760k min 11 EER Air Conditioner | Mfg: Other | HVAC | ROB | unit (ton) | 1,022,977 | 5.3% | 14.17 | 15 | \$34,788 | 35% | 1.14 |
| DLC | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Other | HVAC | Early | unit (ton) | 1,022,977 | 9.7% | 25.74 | 15 | \$359,800 | 35% | 0.22 |
| DLC | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Other | HVAC | New | unit (ton) | 1,022,977 | 3.8% | 10.20 | 15 | \$51,334 | 35% | 0.58 |
| DLC | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Other | HVAC | ROB | unit (ton) | 1,022,977 | 3.8% | 10.20 | 15 | \$51,334 | 35% | 0.58 |
| DLC | Ceiling Insualtions (Going upto R 20) | Mfg: Other | HVAC | Existing | building | 1,022,977 | 5.9% | 15.19 | 15 | \$3,099,459 | 71% | 0.02 |
| DLC | Ceiling Insualtions (Going upto R 20) | Mfg: Other | HVAC | New | building | 1,022,977 | 3.7% | 9.53 | 15 | \$2,946,123 | 94% | 0.01 |
| DLC | Chiller Tuneup/Diagnostics | Mfg: Other | HVAC | Existing | building | 1,022,977 | 8.0% | 30.01 | 10 | \$2,612,119 | 59% | 0.02 |
| DLC | Chiller Tuneup/Diagnostics | Mfg: Other | HVAC | New | building | 1,022,977 | 8.0% | 30.06 | 10 | \$2,612,119 | 59% | 0.02 |
| DLC | Cooling Tower Optimization | Mfg: Other | HVAC | Existing | building | 1,022,977 | 20% | 73.23 | 10 | \$6,273 | 12% | 6.05 |
| DLC | Duct Insulation, Add R8 | Mfg: Other | HVAC | Existing | building | 1,022,977 | 1.5% | 3.27 | 15 | \$8,126 | 18% | 1.30 |
| DLC | Duct Insulation, Add R8 | Mfg: Other | HVAC | New | building | 1,022,977 | 1.5% | 3.27 | 15 | \$8,126 | 9% | 1.30 |
| DLC | Ductless Heat Pump | Mfg: Other | HVAC | Early | heat pump | 1,022,977 | 0.8% | 1.91 | 15 | \$81,248 | 83% | 0.08 |
| DLC | Ductless Heat Pump | Mfg: Other | HVAC | New | heat pump | 1,022,977 | 0.4% | 1.01 | 15 | \$23,595 | 83% | 0.15 |
| DLC | Ductless Heat Pump | Mfg: Other | HVAC | ROB | heat pump | 1,022,977 | 0.4% | 1.01 | 15 | \$23,595 | 83% | 0.15 |
| DLC | DX Coil Cleaning | Mfg: Other | HVAC | Existing | building | 1,022,977 | 13% | 46.93 | 1 | \$9,805 | 73% | 0.43 |
| DLC | DX Coil Cleaning | Mfg: Other | HVAC | New | building | 1,022,977 | 13% | 46.92 | 1 | \$9,805 | 73% | 0.43 |
| DLC | Efficient Unit Heating System | Mfg: Other | HVAC | Early | heater | 1,022,977 | 6.9% | 0.59 | 15 | \$55,105 | 83% | 0.68 |
| DLC | Efficient Unit Heating System | Mfg: Other | HVAC | New | heater | 1,022,977 | 4.0% | 0.34 | 15 | \$37,587 | 83% | 0.58 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Efficient Unit Heating System | Mfg: Other | HVAC | ROB | heater | 1,022,977 | 4.0% | 0.34 | 15 | \$37,587 | 83% | 0.58 |
| DLC | Ground Source Heat Pump (Closed Loop) | Mfg: Other | HVAC | Early | heat pump | 1,022,977 | 1.3% | 2.99 | 15 | \$168,705 | 19% | 0.06 |
| DLC | Ground Source Heat Pump (Closed Loop) | Mfg: Other | HVAC | New | heat pump | 1,022,977 | 1.0% | 2.35 | 15 | \$66,611 | 19% | 0.12 |
| DLC | Ground Source Heat Pump (Closed Loop) | Mfg: Other | HVAC | ROB | heat pump | 1,022,977 | 1.0% | 2.35 | 15 | \$66,611 | 19% | 0.12 |
| DLC | Ground Source Heat Pump (Open Loop) | Mfg: Other | HVAC | Early | heat pump | 1,022,977 | 1.3% | 2.99 | 15 | \$108,048 | 19% | 0.09 |
| DLC | Ground Source Heat Pump (Open Loop) | Mfg: Other | HVAC | New | heat pump | 1,022,977 | 1.0% | 2.35 | 15 | \$2,291 | 19% | 2.67 |
| DLC | Ground Source Heat Pump (Open Loop) | Mfg: Other | HVAC | ROB | heat pump | 1,022,977 | 1.0% | 2.35 | 15 | \$2,291 | 19% | 2.67 |
| DLC | HE Air Cooled Chiller, 100 Tons | Mfg: Other | HVAC | Early | unit (ton) | 1,022,977 | 1.5% | 3.39 | 15 | \$1,202,668 | 89% | 0.01 |
| DLC | HE Air Cooled Chiller, 100 Tons | Mfg: Other | HVAC | New | unit (ton) | 1,022,977 | 0.4% | 0.96 | 15 | \$175,207 | 89% | 0.02 |
| DLC | HE Air Cooled Chiller, 100 Tons | Mfg: Other | HVAC | ROB | unit (ton) | 1,022,977 | 0.4% | 0.96 | 15 | \$175,207 | 89% | 0.02 |
| DLC | HE Air Cooled Chiller, 150 Tons | Mfg: Other | HVAC | Early | unit (ton) | 1,022,977 | 1.5% | 3.35 | 15 | \$1,038,837 | 89% | 0.01 |
| DLC | HE Air Cooled Chiller, 150 Tons | Mfg: Other | HVAC | New | unit (ton) | 1,022,977 | 0.3% | 0.69 | 15 | \$86,043 | 89% | 0.03 |
| DLC | HE Air Cooled Chiller, 150 Tons | Mfg: Other | HVAC | ROB | unit (ton) | 1,022,977 | 0.3% | 0.69 | 15 | \$86,043 | 89% | 0.03 |
| DLC | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Other | HVAC | Early | heat pump | 1,022,977 | 1.4% | 3.15 | 12 | \$44,040 | 81% | 0.20 |
| DLC | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Other | HVAC | Early | heat pump | 1,022,977 | 1.1% | 2.60 | 12 | \$32,175 | 81% | 0.22 |
| DLC | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Other | HVAC | New | heat pump | 1,022,977 | 1.0% | 2.34 | 12 | \$19,662 | 81% | 0.32 |
| DLC | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Other | HVAC | New | heat pump | 1,022,977 | 0.8% | 1.75 | 12 | \$6,873 | 81% | 0.66 |
| DLC | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Other | HVAC | ROB | heat pump | 1,022,977 | 1.0% | 2.34 | 12 | \$19,662 | 81% | 0.32 |
| DLC | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Other | HVAC | ROB | heat pump | 1,022,977 | 0.8% | 1.75 | 12 | \$6,873 | 81% | 0.66 |
| DLC | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Other | HVAC | Early | unit (ton) | 1,022,977 | 1.6% | 3.70 | 15 | \$95,425 | 89% | 0.13 |
| DLC | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Other | HVAC | New | unit (ton) | 1,022,977 | 0.9% | 2.13 | 15 | \$31,738 | 89% | 0.23 |
| DLC | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Other | HVAC | ROB | unit (ton) | 1,022,977 | 0.9% | 2.13 | 15 | \$31,738 | 89% | 0.23 |
| DLC | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Other | HVAC | Early | unit (ton) | 1,022,977 | 1.4% | 3.27 | 15 | \$93,196 | 89% | 0.12 |
| DLC | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Other | HVAC | New | unit (ton) | 1,022,977 | 1.0% | 2.29 | 15 | \$18,200 | 89% | 0.42 |
| DLC | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Other | HVAC | ROB | unit (ton) | 1,022,977 | 1.4% | 3.27 | 15 | \$16,719 | 89% | 0.63 |
| DLC | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Other | HVAC | Early | unit (ton) | 1,022,977 | 1.4% | 3.23 | 15 | \$110,304 | 89% | 0.10 |
| DLC | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Other | HVAC | New | unit (ton) | 1,022,977 | 0.9% | 2.07 | 15 | \$46,441 | 89% | 0.15 |
| DLC | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Other | HVAC | ROB | unit (ton) | 1,022,977 | 1.4% | 3.23 | 15 | \$42,032 | 89% | 0.26 |
| DLC | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Other | HVAC | Early | unit (ton) | 1,022,977 | 1.4% | 3.23 | 15 | \$106,252 | 89% | 0.10 |
| DLC | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Other | HVAC | New | unit (ton) | 1,022,977 | 0.9% | 2.07 | 15 | \$40,368 | 89% | 0.17 |
| DLC | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Other | HVAC | ROB | unit (ton) | 1,022,977 | 1.4% | 3.23 | 15 | \$36,536 | 89% | 0.30 |
| DLC | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Other | HVAC | Early | unit (ton) | 1,022,977 | 1.8% | 4.19 | 15 | \$114,489 | 89% | 0.12 |
| DLC | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Other | HVAC | New | unit (ton) | 1,022,977 | 0.6% | 1.28 | 15 | \$70,893 | 89% | 0.06 |
| DLC | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Other | HVAC | ROB | unit (ton) | 1,022,977 | 1.8% | 4.19 | 15 | \$55,048 | 89% | 0.26 |
| DLC | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Other | HVAC | Early | unit (ton) | 1,022,977 | 2.2% | 4.97 | 15 | \$105,305 | 89% | 0.16 |
| DLC | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Other | HVAC | New | unit (ton) | 1,022,977 | 0.8% | 1.80 | 15 | \$42,256 | 89% | 0.14 |
| DLC | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Other | HVAC | ROB | unit (ton) | 1,022,977 | 0.8% | 1.80 | 15 | \$42,256 | 89% | 0.14 |
| DLC | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Other | HVAC | Early | unit (ton) | 1,022,977 | 2.4% | 5.59 | 15 | \$89,250 | 89% | 0.21 |
| DLC | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Other | HVAC | New | unit (ton) | 1,022,977 | 0.9% | 2.09 | 15 | \$22,458 | 89% | 0.31 |
| DLC | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Other | HVAC | ROB | unit (ton) | 1,022,977 | 2.4% | 5.59 | 15 | \$16,012 | 89% | 1.08 |
| DLC | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Other | HVAC | Early | unit (ton) | 1,022,977 | 1.8% | 4.23 | 15 | \$88,352 | 89% | 0.16 |
| DLC | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Other | HVAC | New | unit (ton) | 1,022,977 | 0.7% | 1.59 | 15 | \$24,741 | 89% | 0.22 |
| DLC | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Other | HVAC | ROB | unit (ton) | 1,022,977 | 1.8% | 4.23 | 15 | \$19,601 | 89% | 0.69 |
| DLC | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Other | HVAC | Existing | building | 1,022,977 | 2.9% | 6.02 | 5 | \$10,853 | 55% | 0.55 |
| DLC | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Other | HVAC | New | building | 1,022,977 | 0.6% | 2.38 | 5 | \$6,512 | 51% | 0.28 |
| DLC | Improved Controls - HVAC | Mfg: Other | HVAC | Existing | end use | 1,022,977 | 21% | 30.68 | 10 | \$10,755 | 76% | 3.87 |
| DLC | Improved Controls - HVAC | Mfg: Other | HVAC | New | end use | 1,022,977 | 21% | 30.68 | 10 | \$10,755 | 76% | 3.87 |
| DLC | Outside Air Economizer | Mfg: Other | HVAC | Existing | building | 1,022,977 | 1.1% | 2.87 | 10 | \$3,758,610 | 82% | 0.00 |
| DLC | Outside Air Economizer | Mfg: Other | HVAC | New | building | 1,022,977 | 1.1% | 2.87 | 10 | \$3,758,610 | 82% | 0.00 |
| DLC | Recommissioning | Mfg: Other | HVAC | Existing | end use | 1,022,977 | 5.0% | 7.34 | 10 | \$1,403 | 88% | 4.78 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---------------------------------------|------------|----------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Recommissioning | Mfg: Other | HVAC | New | end use | 1,022,977 | 5.0% | 7.34 | 10 | \$1,403 | 88% | 4.78 |
| DLC | Room AC (with louvered sides) | Mfg: Other | HVAC | Early | unit (ton) | 1,022,977 | 7.7% | 17.76 | 9 | \$80,179 | 78% | 0.43 |
| DLC | Room AC (with louvered sides) | Mfg: Other | HVAC | New | unit (ton) | 1,022,977 | 2.6% | 5.92 | 9 | \$4,390 | 78% | 1.95 |
| DLC | Room AC (with louvered sides) | Mfg: Other | HVAC | ROB | unit (ton) | 1,022,977 | 2.6% | 5.92 | 9 | \$4,390 | 78% | 1.95 |
| DLC | Variable Refrigerant Flow Heat Pump | Mfg: Other | HVAC | New | measure | 1,022,977 | 0.1% | 0.27 | 13 | \$7,566 | 43% | 0.10 |
| DLC | Variable Refrigerant Flow Heat Pump | Mfg: Other | HVAC | ROB | measure | 1,022,977 | 0.1% | 0.27 | 13 | \$7,566 | 43% | 0.10 |
| DLC | VFD on Cooling Tower Fan | Mfg: Other | HVAC | Early | motor | 1,022,977 | 21% | 64.37 | 15 | \$47,134 | 15% | 2.92 |
| DLC | VFD on Cooling Tower Fan | Mfg: Other | HVAC | New | motor | 1,022,977 | 22% | 64.37 | 15 | \$48,032 | 15% | 2.90 |
| DLC | VFD on Cooling Tower Fan | Mfg: Other | HVAC | ROB | motor | 1,022,977 | 22% | 64.37 | 15 | \$48,032 | 15% | 2.90 |
| DLC | Wall Insualtions (Going upto R 21) | Mfg: Other | HVAC | Existing | building | 1,022,977 | 19% | 48.91 | 15 | \$727,710 | 26% | 0.21 |
| DLC | Wall Insualtions (Going upto R 21) | Mfg: Other | HVAC | New | building | 1,022,977 | 0.6% | 1.56 | 15 | \$558,189 | 94% | 0.01 |
| DLC | Water Source Heat Pump (4 ton) | Mfg: Other | HVAC | Early | heat pump | 1,022,977 | 1.5% | 3.55 | 15 | \$174,702 | 28% | 0.07 |
| DLC | Water Source Heat Pump (4 ton) | Mfg: Other | HVAC | New | heat pump | 1,022,977 | 1.1% | 2.60 | 15 | \$85,146 | 28% | 0.10 |
| DLC | Water Source Heat Pump (4 ton) | Mfg: Other | HVAC | ROB | heat pump | 1,022,977 | 1.1% | 2.60 | 15 | \$85,146 | 28% | 0.10 |
| DLC | Efficient Metal Halide (High Bay) | Mfg: Other | Lighting | Early | end use | 726,120 | 42% | 0.00 | 9 | \$113,465 | 53% | 0.73 |
| DLC | Efficient Metal Halide (High Bay) | Mfg: Other | Lighting | New | end use | 726,120 | 41% | 0.00 | 13 | \$3,030,684 | 61% | 0.05 |
| DLC | Efficient Metal Halide (High Bay) | Mfg: Other | Lighting | ROB | end use | 726,120 | 41% | 0.00 | 13 | \$2,316,218 | 61% | 0.06 |
| DLC | Induction (High Bay) | Mfg: Other | Lighting | Early | end use | 726,120 | 94% | 0.00 | 13 | \$337,607 | 95% | 0.88 |
| DLC | Induction (High Bay) | Mfg: Other | Lighting | New | end use | 726,120 | 94% | 0.00 | 13 | \$316,084 | 95% | 0.93 |
| DLC | Induction (High Bay) | Mfg: Other | Lighting | ROB | end use | 726,120 | 94% | 0.00 | 13 | \$240,235 | 95% | 1.18 |
| DLC | LED (High Bay) | Mfg: Other | Lighting | Early | end use | 726,120 | 69% | 0.00 | 14 | \$397,412 | 95% | 0.61 |
| DLC | LED (High Bay) | Mfg: Other | Lighting | New | end use | 726,120 | 55% | 0.00 | 14 | \$441,117 | 95% | 0.45 |
| DLC | LED (High Bay) | Mfg: Other | Lighting | ROB | end use | 726,120 | 59% | 0.00 | 14 | \$290,645 | 95% | 0.71 |
| DLC | Lighting Controls | Mfg: Other | Lighting | Existing | end use | 726,120 | 20% | 0.00 | 6 | \$2,722,138 | 16% | 0.01 |
| DLC | Lighting Controls | Mfg: Other | Lighting | New | end use | 726,120 | 12% | 0.00 | 10 | \$3,621,333 | 11% | 0.01 |
| DLC | Linear Fluorescent (High Bay) | Mfg: Other | Lighting | Early | end use | 726,120 | 17% | 0.00 | 14 | \$83,084 | 98% | 0.71 |
| DLC | Linear Fluorescent (High Bay) | Mfg: Other | Lighting | New | end use | 726,120 | 13% | 0.00 | 14 | \$26,348 | 91% | 1.50 |
| DLC | Linear Fluorescent (High Bay) | Mfg: Other | Lighting | ROB | end use | 726,120 | 13% | 0.00 | 14 | \$16,869 | 91% | 2.16 |
| DLC | Metal Halide (High Bay) | Mfg: Other | Lighting | Early | end use | 726,120 | 62% | 0.00 | 13 | \$499,161 | 38% | 0.42 |
| DLC | Metal Halide (High Bay) | Mfg: Other | Lighting | New | end use | 726,120 | 73% | 0.00 | 13 | \$119,343 | 38% | 1.67 |
| DLC | Metal Halide (High Bay) | Mfg: Other | Lighting | ROB | end use | 726,120 | 73% | 0.00 | 13 | \$90,700 | 38% | 2.05 |
| DLC | Screw Base CFL | Mfg: Other | Lighting | Early | end use | 726,120 | 80% | 0.00 | 7 | \$197,271 | 17% | 0.54 |
| DLC | Screw Base CFL | Mfg: Other | Lighting | New | end use | 726,120 | 73% | 0.00 | 9 | \$161,218 | 18% | 0.85 |
| DLC | Screw Base CFL | Mfg: Other | Lighting | ROB | end use | 726,120 | 73% | 0.00 | 9 | \$134,939 | 17% | 0.98 |
| DLC | Screw Base LED | Mfg: Other | Lighting | Early | end use | 726,120 | 76% | 0.00 | 9 | \$121,067 | 21% | 1.17 |
| DLC | Screw Base LED | Mfg: Other | Lighting | New | end use | 726,120 | 77% | 0.00 | 9 | \$67,442 | 20% | 1.79 |
| DLC | Screw Base LED | Mfg: Other | Lighting | ROB | end use | 726,120 | 77% | 0.00 | 9 | \$53,539 | 21% | 2.05 |
| DLC | T8 High Performance Linear Florescent | Mfg: Other | Lighting | Early | end use | 726,120 | 36% | 0.00 | 14 | \$69,484 | 71% | 1.59 |
| DLC | T8 High Performance Linear Florescent | Mfg: Other | Lighting | New | end use | 726,120 | 26% | 0.00 | 14 | \$24,860 | 76% | 2.67 |
| DLC | T8 High Performance Linear Florescent | Mfg: Other | Lighting | ROB | end use | 726,120 | 26% | 0.00 | 14 | \$18,895 | 76% | 3.16 |
| DLC | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Other | Motors | Early | end use | 160,016 | 0.9% | 0.21 | 15 | \$2,444 | 81% | 0.40 |
| DLC | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Other | Motors | New | end use | 160,016 | 0.9% | 0.21 | 15 | \$2,444 | 81% | 0.40 |
| DLC | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Other | Motors | ROB | end use | 160,016 | 0.9% | 0.21 | 15 | \$2,444 | 81% | 0.40 |
| DLC | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Other | Motors | Early | end use | 160,016 | 0.8% | 0.17 | 15 | \$1,485 | 73% | 0.54 |
| DLC | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Other | Motors | New | end use | 160,016 | 0.8% | 0.17 | 15 | \$1,485 | 73% | 0.54 |
| DLC | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Other | Motors | ROB | end use | 160,016 | 0.8% | 0.17 | 15 | \$1,485 | 73% | 0.54 |
| DLC | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Other | Motors | Early | end use | 160,016 | 0.5% | 0.10 | 15 | \$569 | 81% | 0.82 |
| DLC | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Other | Motors | New | end use | 160,016 | 0.4% | 0.10 | 15 | \$569 | 81% | 0.80 |
| DLC | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Other | Motors | ROB | end use | 160,016 | 0.5% | 0.10 | 15 | \$569 | 81% | 0.81 |
| DLC | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Other | Motors | Early | end use | 160,016 | 0.4% | 0.09 | 15 | \$188 | 73% | 1.92 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|------------|------------------------|----------|---------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Other | Motors | New | end use | 160,016 | 0.4% | 0.09 | 15 | \$188 | 73% | 1.94 |
| DLC | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Other | Motors | ROB | end use | 160,016 | 0.4% | 0.09 | 15 | \$188 | 73% | 1.89 |
| DLC | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Other | Motors | Early | end use | 160,016 | 0.9% | 0.21 | 15 | \$281 | 47% | 2.67 |
| DLC | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Other | Motors | New | end use | 160,016 | 0.9% | 0.21 | 15 | \$281 | 47% | 2.68 |
| DLC | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Other | Motors | ROB | end use | 160,016 | 0.9% | 0.21 | 15 | \$281 | 47% | 2.69 |
| DLC | Facility Energy Management | Mfg: Other | Motors | Existing | end use | 160,016 | 1.8% | 0.42 | 2 | \$62 | 77% | 1.02 |
| DLC | Facility Energy Management | Mfg: Other | Motors | New | end use | 160,016 | 1.8% | 0.42 | 2 | \$62 | 77% | 1.02 |
| DLC | HE Motors | Mfg: Other | Motors | Early | end use | 160,016 | 2.0% | 0.47 | 15 | \$953 | 38% | 1.93 |
| DLC | HE Motors | Mfg: Other | Motors | New | end use | 160,016 | 2.0% | 0.47 | 15 | \$953 | 38% | 1.93 |
| DLC | HE Motors | Mfg: Other | Motors | ROB | end use | 160,016 | 2.0% | 0.47 | 15 | \$953 | 38% | 1.93 |
| DLC | High-Efficiency Ventilation System | Mfg: Other | Motors | Early | end use | 160,016 | 5.7% | 1.29 | 10 | \$10,000 | 73% | 0.40 |
| DLC | High-Efficiency Ventilation System | Mfg: Other | Motors | New | end use | 160,016 | 5.7% | 1.29 | 10 | \$10,000 | 73% | 0.40 |
| DLC | High-Efficiency Ventilation System | Mfg: Other | Motors | ROB | end use | 160,016 | 5.7% | 1.29 | 10 | \$10,000 | 73% | 0.40 |
| DLC | Improved Controls - Motors | Mfg: Other | Motors | Existing | end use | 160,016 | 4.0% | 0.90 | 10 | \$695 | 73% | 2.57 |
| DLC | Improved Controls - Motors | Mfg: Other | Motors | New | end use | 160,016 | 4.0% | 0.90 | 10 | \$695 | 73% | 2.57 |
| DLC | Motor Management Plan | Mfg: Other | Motors | Existing | end use | 160,016 | 2.9% | 0.66 | 10 | \$326 | 73% | 3.29 |
| DLC | Motor Management Plan | Mfg: Other | Motors | New | end use | 160,016 | 2.9% | 0.66 | 10 | \$326 | 73% | 3.29 |
| DLC | Motors Other | Mfg: Other | Motors | Existing | end use | 160,016 | 1.1% | 0.25 | 15 | \$32 | 83% | 7.86 |
| DLC | Motors Other | Mfg: Other | Motors | New | end use | 160,016 | 1.1% | 0.25 | 15 | \$32 | 83% | 7.86 |
| DLC | Motors: Rewind 101-200 HP | Mfg: Other | Motors | Existing | end use | 160,016 | 0.6% | 0.13 | 10 | \$202 | 27% | 1.55 |
| DLC | Motors: Rewind 101-200 HP | Mfg: Other | Motors | New | end use | 160,016 | 0.6% | 0.13 | 10 | \$202 | 27% | 1.55 |
| DLC | Motors: Rewind 201-500 HP | Mfg: Other | Motors | Existing | end use | 160,016 | 0.5% | 0.13 | 8 | \$127 | 27% | 1.64 |
| DLC | Motors: Rewind 201-500 HP | Mfg: Other | Motors | New | end use | 160,016 | 0.5% | 0.13 | 8 | \$127 | 27% | 1.64 |
| DLC | Motors: Rewind 20-50 HP | Mfg: Other | Motors | Existing | end use | 160,016 | 1.0% | 0.24 | 11 | \$594 | 42% | 1.22 |
| DLC | Motors: Rewind 20-50 HP | Mfg: Other | Motors | New | end use | 160,016 | 1.0% | 0.24 | 11 | \$594 | 42% | 1.22 |
| DLC | Motors: Rewind 500+ HP | Mfg: Other | Motors | Existing | end use | 160,016 | 0.6% | 0.13 | 8 | \$91 | 11% | 2.06 |
| DLC | Motors: Rewind 500+ HP | Mfg: Other | Motors | New | end use | 160,016 | 0.6% | 0.13 | 8 | \$91 | 11% | 2.06 |
| DLC | Motors: Rewind 51-100 HP | Mfg: Other | Motors | Existing | end use | 160,016 | 0.6% | 0.14 | 9 | \$293 | 42% | 1.09 |
| DLC | Motors: Rewind 51-100 HP | Mfg: Other | Motors | New | end use | 160,016 | 0.6% | 0.14 | 9 | \$293 | 42% | 1.09 |
| DLC | Switch from Belt drive to Direct Drive | Mfg: Other | Motors | Early | end use | 160,016 | 7.5% | 1.72 | 12 | \$2,567 | 30% | 1.98 |
| DLC | Switch from Belt drive to Direct Drive | Mfg: Other | Motors | New | end use | 160,016 | 7.5% | 1.72 | 12 | \$2,567 | 30% | 1.98 |
| DLC | Switch from Belt drive to Direct Drive | Mfg: Other | Motors | ROB | end use | 160,016 | 7.5% | 1.72 | 12 | \$2,567 | 30% | 1.98 |
| DLC | Synchronous Belts | Mfg: Other | Motors | Early | end use | 160,016 | 1.2% | 0.27 | 10 | \$236 | 30% | 2.36 |
| DLC | Synchronous Belts | Mfg: Other | Motors | New | end use | 160,016 | 1.2% | 0.27 | 10 | \$236 | 30% | 2.36 |
| DLC | Synchronous Belts | Mfg: Other | Motors | ROB | end use | 160,016 | 1.2% | 0.27 | 10 | \$236 | 30% | 2.36 |
| DLC | Bldg Improvements | Mfg: Other | Other | Existing | end use | 220,661 | 16% | 4.25 | 15 | \$4,811 | 72% | 3.29 |
| DLC | Bldg Improvements | Mfg: Other | Other | New | end use | 220,661 | 16% | 4.25 | 15 | \$4,811 | 72% | 3.29 |
| DLC | Energy Project Management | Mfg: Other | Other | Existing | end use | 220,661 | 29% | 7.62 | 11 | \$7,877 | 63% | 2.57 |
| DLC | Energy Project Management | Mfg: Other | Other | New | end use | 220,661 | 29% | 7.62 | 11 | \$7,877 | 63% | 2.57 |
| DLC | Facility Energy Management | Mfg: Other | Other | Existing | end use | 220,661 | 1.8% | 0.48 | 2 | \$85 | 76% | 0.99 |
| DLC | Facility Energy Management | Mfg: Other | Other | New | end use | 220,661 | 1.8% | 0.48 | 2 | \$85 | 76% | 0.99 |
| DLC | Integrated Plant Energy Management | Mfg: Other | Other | Existing | end use | 220,661 | 50% | 13.13 | 11 | \$21,750 | 48% | 1.86 |
| DLC | Integrated Plant Energy Management | Mfg: Other | Other | New | end use | 220,661 | 50% | 13.13 | 11 | \$21,750 | 48% | 1.86 |
| DLC | Plant Energy Management | Mfg: Other | Other | Existing | end use | 220,661 | 12% | 3.15 | 10 | \$554 | 55% | 4.91 |
| DLC | Plant Energy Management | Mfg: Other | Other | New | end use | 220,661 | 12% | 3.15 | 10 | \$554 | 55% | 4.91 |
| DLC | Transformers | Mfg: Other | Other | Early | end use | 220,661 | 1.6% | 0.42 | 15 | \$705 | 34% | 2.50 |
| DLC | Transformers | Mfg: Other | Other | New | end use | 220,661 | 1.6% | 0.42 | 15 | \$705 | 34% | 2.50 |
| DLC | Transformers | Mfg: Other | Other | ROB | end use | 220,661 | 1.6% | 0.42 | 15 | \$705 | 34% | 2.52 |
| DLC | Air Compressor Demand Reduction | Mfg: Other | Process Air Compressor | Existing | end use | 9,053 | 26% | 0.30 | 10 | \$136 | 52% | 3.54 |
| DLC | Air Compressor Demand Reduction | Mfg: Other | Process Air Compressor | New | end use | 9,053 | 26% | 0.30 | 10 | \$136 | 52% | 3.54 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---------------------------------------|------------|------------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Air Compressor Equipment | Mfg: Other | Process Air Compressor | Early | end use | 9,053 | 39% | 0.46 | 10 | \$164 | 73% | 3.89 |
| DLC | Air Compressor Equipment | Mfg: Other | Process Air Compressor | New | end use | 9,053 | 39% | 0.46 | 10 | \$164 | 73% | 3.89 |
| DLC | Air Compressor Equipment | Mfg: Other | Process Air Compressor | ROB | end use | 9,053 | 39% | 0.46 | 10 | \$164 | 73% | 3.89 |
| DLC | Air Compressor Optimization | Mfg: Other | Process Air Compressor | Existing | end use | 9,053 | 39% | 0.46 | 10 | \$395 | 55% | 2.51 |
| DLC | Air Compressor Optimization | Mfg: Other | Process Air Compressor | New | end use | 9,053 | 39% | 0.46 | 10 | \$395 | 55% | 2.51 |
| DLC | Facility Energy Management | Mfg: Other | Process Air Compressor | Existing | end use | 9,053 | 1.8% | 0.02 | 2 | \$3.5 | 62% | 1.00 |
| DLC | Facility Energy Management | Mfg: Other | Process Air Compressor | New | end use | 9,053 | 1.8% | 0.02 | 2 | \$3.5 | 62% | 1.00 |
| DLC | HE Compressor motors | Mfg: Other | Process Air Compressor | Early | end use | 9,053 | 1.1% | 0.01 | 15 | \$34 | 73% | 1.66 |
| DLC | HE Compressor motors | Mfg: Other | Process Air Compressor | New | end use | 9,053 | 1.1% | 0.01 | 15 | \$34 | 73% | 1.67 |
| DLC | HE Compressor motors | Mfg: Other | Process Air Compressor | ROB | end use | 9,053 | 1.1% | 0.01 | 15 | \$34 | 73% | 1.68 |
| DLC | Improved Controls - Air Compressor | Mfg: Other | Process Air Compressor | Existing | end use | 9,053 | 41% | 0.48 | 10 | \$162 | 25% | 3.98 |
| DLC | Improved Controls - Air Compressor | Mfg: Other | Process Air Compressor | New | end use | 9,053 | 41% | 0.48 | 10 | \$162 | 25% | 3.98 |
| DLC | Low Pressure-drop Filters | Mfg: Other | Process Air Compressor | Existing | end use | 9,053 | 1.8% | 0.02 | 10 | \$103 | 61% | 0.66 |
| DLC | Low Pressure-drop Filters | Mfg: Other | Process Air Compressor | New | end use | 9,053 | 1.8% | 0.02 | 10 | \$103 | 61% | 0.66 |
| DLC | Outside Air Intake | Mfg: Other | Process Air Compressor | Existing | end use | 9,053 | 1.4% | 0.02 | 10 | \$60 | 48% | 0.86 |
| DLC | Outside Air Intake | Mfg: Other | Process Air Compressor | New | end use | 9,053 | 1.4% | 0.02 | 10 | \$60 | 48% | 0.86 |
| DLC | Receiver Capacity Addition | Mfg: Other | Process Air Compressor | Existing | end use | 9,053 | 5.9% | 0.07 | 10 | \$168 | 36% | 1.19 |
| DLC | Receiver Capacity Addition | Mfg: Other | Process Air Compressor | New | end use | 9,053 | 5.9% | 0.07 | 10 | \$168 | 36% | 1.19 |
| DLC | Refrigerated Cycling Dryers | Mfg: Other | Process Air Compressor | Early | end use | 9,053 | 1.7% | 0.02 | 10 | \$21 | 21% | 2.19 |
| DLC | Refrigerated Cycling Dryers | Mfg: Other | Process Air Compressor | New | end use | 9,053 | 1.7% | 0.02 | 10 | \$21 | 21% | 2.20 |
| DLC | Refrigerated Cycling Dryers | Mfg: Other | Process Air Compressor | ROB | end use | 9,053 | 1.7% | 0.02 | 10 | \$21 | 21% | 2.19 |
| DLC | VFD Controlled Compressor | Mfg: Other | Process Air Compressor | Early | end use | 9,053 | 24% | 0.28 | 10 | \$891 | 28% | 0.94 |
| DLC | VFD Controlled Compressor | Mfg: Other | Process Air Compressor | New | end use | 9,053 | 24% | 0.28 | 10 | \$891 | 28% | 0.94 |
| DLC | VFD Controlled Compressor | Mfg: Other | Process Air Compressor | ROB | end use | 9,053 | 24% | 0.28 | 10 | \$891 | 28% | 0.94 |
| DLC | Zero Loss Condensate Drain | Mfg: Other | Process Air Compressor | Early | end use | 9,053 | 1.9% | 0.02 | 10 | \$52 | 36% | 1.20 |
| DLC | Zero Loss Condensate Drain | Mfg: Other | Process Air Compressor | New | end use | 9,053 | 1.9% | 0.02 | 10 | \$52 | 36% | 1.20 |
| DLC | Zero Loss Condensate Drain | Mfg: Other | Process Air Compressor | ROB | end use | 9,053 | 1.8% | 0.02 | 10 | \$52 | 36% | 1.19 |
| DLC | Cooling Tower Optimization | Mfg: Other | Process Cooling | Existing | building | 131,855 | 20% | 9.44 | 10 | \$809 | 15% | 6.01 |
| DLC | Equipment: Chillers | Mfg: Other | Process Cooling | Early | end use | 131,855 | 18% | 4.91 | 15 | \$6,188 | 46% | 2.28 |
| DLC | Equipment: Chillers | Mfg: Other | Process Cooling | New | end use | 131,855 | 18% | 4.91 | 15 | \$6,188 | 46% | 2.28 |
| DLC | Equipment: Chillers | Mfg: Other | Process Cooling | ROB | end use | 131,855 | 18% | 4.91 | 15 | \$6,188 | 46% | 2.28 |
| DLC | Facility Energy Management | Mfg: Other | Process Cooling | Existing | end use | 131,855 | 1.8% | 0.51 | 2 | \$51 | 59% | 1.14 |
| DLC | Facility Energy Management | Mfg: Other | Process Cooling | New | end use | 131,855 | 1.8% | 0.51 | 2 | \$51 | 59% | 1.14 |
| DLC | Improved Controls - Process Cooling | Mfg: Other | Process Cooling | Existing | end use | 131,855 | 6.0% | 1.65 | 10 | \$6,962 | 56% | 0.54 |
| DLC | Improved Controls - Process Cooling | Mfg: Other | Process Cooling | New | end use | 131,855 | 6.0% | 1.65 | 10 | \$6,962 | 56% | 0.54 |
| DLC | VFD on Cooling Tower Fan | Mfg: Other | Process Cooling | Early | motor | 131,855 | 21% | 8.30 | 15 | \$6,075 | 20% | 2.91 |
| DLC | VFD on Cooling Tower Fan | Mfg: Other | Process Cooling | New | motor | 131,855 | 22% | 8.30 | 15 | \$6,191 | 20% | 2.89 |
| DLC | VFD on Cooling Tower Fan | Mfg: Other | Process Cooling | ROB | motor | 131,855 | 22% | 8.30 | 15 | \$6,191 | 20% | 2.89 |
| DLC | Improved Controls - Process Heating | Mfg: Other | Process Heating | Existing | end use | 451,399 | 17% | 10.61 | 10 | \$5,186 | 77% | 3.32 |
| DLC | Improved Controls - Process Heating | Mfg: Other | Process Heating | New | end use | 451,399 | 17% | 10.61 | 10 | \$5,186 | 77% | 3.32 |
| DLC | Process Heat O&M | Mfg: Other | Process Heating | Existing | end use | 451,399 | 16% | 10.03 | 2 | \$3,134 | 77% | 0.80 |
| DLC | Process Heat O&M | Mfg: Other | Process Heating | New | end use | 451,399 | 16% | 10.03 | 2 | \$3,134 | 77% | 0.80 |
| DLC | Facility Energy Management | Mfg: Other | Process Other | Existing | end use | 84,879 | 1.8% | 0.22 | 2 | \$33 | 73% | 1.02 |
| DLC | Facility Energy Management | Mfg: Other | Process Other | New | end use | 84,879 | 1.8% | 0.22 | 2 | \$33 | 73% | 1.02 |
| DLC | Adjustable speed drive on compressors | Mfg: Other | Process Refrigeration | Early | end use | 67,733 | 12% | 1.16 | 10 | \$1,253 | 64% | 2.03 |
| DLC | Adjustable speed drive on compressors | Mfg: Other | Process Refrigeration | New | end use | 67,733 | 12% | 1.16 | 10 | \$1,253 | 64% | 2.03 |
| DLC | Adjustable speed drive on compressors | Mfg: Other | Process Refrigeration | ROB | end use | 67,733 | 12% | 1.16 | 10 | \$1,253 | 64% | 2.03 |
| DLC | Cooling Tower Optimization | Mfg: Other | Process Refrigeration | Existing | building | 67,733 | 20% | 4.85 | 10 | \$415 | 15% | 6.01 |
| DLC | Optimization of operating parameters | Mfg: Other | Process Refrigeration | Existing | end use | 67,733 | 13% | 1.30 | 3 | \$547 | 57% | 1.03 |
| DLC | Optimization of operating parameters | Mfg: Other | Process Refrigeration | New | end use | 67,733 | 13% | 1.30 | 3 | \$547 | 57% | 1.03 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|-------------------------------------|------------|-----------------------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Synchronous Belts | Mfg: Other | Process Refrigeration | Early | end use | 67,733 | 1.2% | 0.12 | 10 | \$100 | 64% | 2.36 |
| DLC | Synchronous Belts | Mfg: Other | Process Refrigeration | New | end use | 67,733 | 1.2% | 0.12 | 10 | \$100 | 64% | 2.36 |
| DLC | Synchronous Belts | Mfg: Other | Process Refrigeration | ROB | end use | 67,733 | 1.2% | 0.12 | 10 | \$100 | 64% | 2.36 |
| DLC | VFD on Cooling Tower Fan | Mfg: Other | Process Refrigeration | Early | motor | 67,733 | 21% | 4.26 | 15 | \$3,121 | 20% | 2.91 |
| DLC | VFD on Cooling Tower Fan | Mfg: Other | Process Refrigeration | New | motor | 67,733 | 22% | 4.26 | 15 | \$3,180 | 20% | 2.89 |
| DLC | VFD on Cooling Tower Fan | Mfg: Other | Process Refrigeration | ROB | motor | 67,733 | 22% | 4.26 | 15 | \$3,180 | 20% | 2.89 |
| DLC | Facility Energy Management | Mfg: Other | Pumps | Existing | end use | 896,980 | 1.8% | 2.15 | 2 | \$346 | 73% | 1.02 |
| DLC | Facility Energy Management | Mfg: Other | Pumps | New | end use | 896,980 | 1.8% | 2.15 | 2 | \$346 | 73% | 1.02 |
| DLC | HE Motors | Mfg: Other | Pumps | Early | end use | 896,980 | 2.0% | 2.39 | 15 | \$5,340 | 77% | 1.90 |
| DLC | HE Motors | Mfg: Other | Pumps | New | end use | 896,980 | 2.0% | 2.39 | 15 | \$5,340 | 77% | 1.90 |
| DLC | HE Motors | Mfg: Other | Pumps | ROB | end use | 896,980 | 2.0% | 2.39 | 15 | \$5,340 | 77% | 1.90 |
| DLC | Motor rewinds | Mfg: Other | Pumps | Existing | end use | 896,980 | 0.6% | 0.69 | 9 | \$1,276 | 12% | 1.30 |
| DLC | Motor rewinds | Mfg: Other | Pumps | New | end use | 896,980 | 0.6% | 0.69 | 9 | \$1,276 | 12% | 1.30 |
| DLC | Pump Equipment Upgrade | Mfg: Other | Pumps | Early | end use | 896,980 | 20% | 23.34 | 12 | \$22,425 | 86% | 2.84 |
| DLC | Pump Equipment Upgrade | Mfg: Other | Pumps | New | end use | 896,980 | 20% | 23.34 | 12 | \$22,425 | 86% | 2.84 |
| DLC | Pump Equipment Upgrade | Mfg: Other | Pumps | ROB | end use | 896,980 | 20% | 23.34 | 12 | \$22,425 | 86% | 2.84 |
| DLC | Pump System Optimization | Mfg: Other | Pumps | Existing | end use | 896,980 | 8.7% | 10.15 | 12 | \$16,423 | 40% | 1.97 |
| DLC | Pump System Optimization | Mfg: Other | Pumps | New | end use | 896,980 | 8.7% | 10.15 | 12 | \$16,423 | 40% | 1.97 |
| DLC | Synchronous Belts | Mfg: Other | Pumps | Early | end use | 896,980 | 1.2% | 1.36 | 10 | \$1,322 | 64% | 2.32 |
| DLC | Synchronous Belts | Mfg: Other | Pumps | New | end use | 896,980 | 1.2% | 1.36 | 10 | \$1,322 | 64% | 2.32 |
| DLC | Synchronous Belts | Mfg: Other | Pumps | ROB | end use | 896,980 | 1.2% | 1.36 | 10 | \$1,322 | 64% | 2.32 |
| DLC | Circulating Fans | Mfg: Paper | Fans | Early | end use | 16,437 | 5.0% | 0.10 | 10 | \$100 | 68% | 2.34 |
| DLC | Circulating Fans | Mfg: Paper | Fans | New | end use | 16,437 | 5.0% | 0.10 | 10 | \$100 | 68% | 2.34 |
| DLC | Circulating Fans | Mfg: Paper | Fans | ROB | end use | 16,437 | 5.0% | 0.10 | 10 | \$100 | 68% | 2.34 |
| DLC | Efficient Centrifugal Fan | Mfg: Paper | Fans | Early | end use | 16,437 | 20% | 0.39 | 10 | \$598 | 68% | 1.78 |
| DLC | Efficient Centrifugal Fan | Mfg: Paper | Fans | New | end use | 16,437 | 20% | 0.39 | 10 | \$598 | 68% | 1.78 |
| DLC | Efficient Centrifugal Fan | Mfg: Paper | Fans | ROB | end use | 16,437 | 20% | 0.39 | 10 | \$598 | 68% | 1.78 |
| DLC | Facility Energy Management | Mfg: Paper | Fans | Existing | end use | 16,437 | 1.8% | 0.04 | 2 | \$6.3 | 77% | 1.00 |
| DLC | Facility Energy Management | Mfg: Paper | Fans | New | end use | 16,437 | 1.8% | 0.04 | 2 | \$6.3 | 77% | 1.00 |
| DLC | Fan Equipment Upgrade | Mfg: Paper | Fans | Early | end use | 16,437 | 35% | 0.68 | 10 | \$493 | 68% | 2.88 |
| DLC | Fan Equipment Upgrade | Mfg: Paper | Fans | New | end use | 16,437 | 35% | 0.68 | 10 | \$493 | 68% | 2.88 |
| DLC | Fan Equipment Upgrade | Mfg: Paper | Fans | ROB | end use | 16,437 | 35% | 0.68 | 10 | \$493 | 68% | 2.88 |
| DLC | Fan System Optimization | Mfg: Paper | Fans | Existing | end use | 16,437 | 7.3% | 0.14 | 10 | \$224 | 83% | 1.75 |
| DLC | Fan System Optimization | Mfg: Paper | Fans | New | end use | 16,437 | 7.3% | 0.14 | 10 | \$224 | 83% | 1.75 |
| DLC | HE Motors | Mfg: Paper | Fans | Early | end use | 16,437 | 2.0% | 0.04 | 15 | \$98 | 77% | 1.87 |
| DLC | HE Motors | Mfg: Paper | Fans | New | end use | 16,437 | 2.0% | 0.04 | 15 | \$98 | 77% | 1.87 |
| DLC | HE Motors | Mfg: Paper | Fans | ROB | end use | 16,437 | 2.0% | 0.04 | 15 | \$98 | 77% | 1.87 |
| DLC | Improved Controls - Fans | Mfg: Paper | Fans | Existing | end use | 16,437 | 7.1% | 0.14 | 10 | \$64 | 88% | 3.59 |
| DLC | Improved Controls - Fans | Mfg: Paper | Fans | New | end use | 16,437 | 7.1% | 0.14 | 10 | \$64 | 88% | 3.59 |
| DLC | Paper: Premium Fan | Mfg: Paper | Fans | Early | end use | 16,437 | 20% | 0.39 | 10 | \$598 | 61% | 1.78 |
| DLC | Paper: Premium Fan | Mfg: Paper | Fans | New | end use | 16,437 | 20% | 0.39 | 10 | \$598 | 61% | 1.78 |
| DLC | Paper: Premium Fan | Mfg: Paper | Fans | ROB | end use | 16,437 | 20% | 0.39 | 10 | \$598 | 61% | 1.78 |
| DLC | Properly Sized Fans | Mfg: Paper | Fans | Early | end use | 16,437 | 13% | 0.26 | 10 | \$337 | 41% | 1.99 |
| DLC | Properly Sized Fans | Mfg: Paper | Fans | New | end use | 16,437 | 13% | 0.26 | 10 | \$337 | 41% | 1.99 |
| DLC | Properly Sized Fans | Mfg: Paper | Fans | ROB | end use | 16,437 | 13% | 0.26 | 10 | \$337 | 41% | 1.99 |
| DLC | Synchronous Belts | Mfg: Paper | Fans | Early | end use | 16,437 | 1.2% | 0.02 | 10 | \$24 | 41% | 2.28 |
| DLC | Synchronous Belts | Mfg: Paper | Fans | New | end use | 16,437 | 1.2% | 0.02 | 10 | \$24 | 41% | 2.28 |
| DLC | Synchronous Belts | Mfg: Paper | Fans | ROB | end use | 16,437 | 1.2% | 0.02 | 10 | \$24 | 41% | 2.28 |
| DLC | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Paper | HVAC | Early | unit (ton) | 3,381 | 9.2% | 0.08 | 15 | \$616 | 28% | 0.39 |
| DLC | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Paper | HVAC | New | unit (ton) | 3,381 | 4.1% | 0.04 | 15 | \$149 | 28% | 0.70 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Paper | HVAC | ROB | unit (ton) | 3,381 | 4.1% | 0.04 | 15 | \$149 | 28% | 0.70 |
| DLC | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Paper | HVAC | Early | unit (ton) | 3,381 | 12% | 0.11 | 15 | \$726 | 28% | 0.45 |
| DLC | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Paper | HVAC | New | unit (ton) | 3,381 | 7.7% | 0.07 | 15 | \$314 | 28% | 0.63 |
| DLC | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Paper | HVAC | ROB | unit (ton) | 3,381 | 7.7% | 0.07 | 15 | \$314 | 28% | 0.63 |
| DLC | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Paper | HVAC | Early | unit (ton) | 3,381 | 15% | 0.13 | 15 | \$836 | 29% | 0.47 |
| DLC | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Paper | HVAC | New | unit (ton) | 3,381 | 11% | 0.09 | 15 | \$479 | 29% | 0.58 |
| DLC | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Paper | HVAC | ROB | unit (ton) | 3,381 | 11% | 0.09 | 15 | \$479 | 29% | 0.58 |
| DLC | >760k min 10.2 EER Air Conditioner | Mfg: Paper | HVAC | Early | unit (ton) | 3,381 | 2.1% | 0.02 | 15 | \$1,073 | 35% | 0.05 |
| DLC | >760k min 10.2 EER Air Conditioner | Mfg: Paper | HVAC | New | unit (ton) | 3,381 | 2.8% | 0.02 | 15 | \$97 | 35% | 0.74 |
| DLC | >760k min 10.2 EER Air Conditioner | Mfg: Paper | HVAC | ROB | unit (ton) | 3,381 | 2.8% | 0.02 | 15 | \$97 | 35% | 0.74 |
| DLC | 135-240k min 12 EER Air Conditioner | Mfg: Paper | HVAC | Early | unit (ton) | 3,381 | 10% | 0.09 | 15 | \$1,161 | 35% | 0.24 |
| DLC | 135-240k min 12 EER Air Conditioner | Mfg: Paper | HVAC | New | unit (ton) | 3,381 | 5.8% | 0.05 | 15 | \$137 | 35% | 1.04 |
| DLC | 135-240k min 12 EER Air Conditioner | Mfg: Paper | HVAC | ROB | unit (ton) | 3,381 | 5.8% | 0.05 | 15 | \$137 | 35% | 1.04 |
| DLC | 240k-760k min 11 EER Air Conditioner | Mfg: Paper | HVAC | Early | unit (ton) | 3,381 | 5.2% | 0.05 | 15 | \$1,073 | 35% | 0.13 |
| DLC | 240k-760k min 11 EER Air Conditioner | Mfg: Paper | HVAC | New | unit (ton) | 3,381 | 5.3% | 0.05 | 15 | \$115 | 35% | 1.14 |
| DLC | 240k-760k min 11 EER Air Conditioner | Mfg: Paper | HVAC | ROB | unit (ton) | 3,381 | 5.3% | 0.05 | 15 | \$115 | 35% | 1.14 |
| DLC | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Paper | HVAC | Early | unit (ton) | 3,381 | 9.7% | 0.09 | 15 | \$1,189 | 35% | 0.22 |
| DLC | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Paper | HVAC | New | unit (ton) | 3,381 | 3.8% | 0.03 | 15 | \$170 | 35% | 0.58 |
| DLC | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Paper | HVAC | ROB | unit (ton) | 3,381 | 3.8% | 0.03 | 15 | \$170 | 35% | 0.58 |
| DLC | Ceiling Insualtions (Going upto R 20) | Mfg: Paper | HVAC | Existing | building | 3,381 | 5.9% | 0.05 | 15 | \$10,245 | 71% | 0.02 |
| DLC | Ceiling Insualtions (Going upto R 20) | Mfg: Paper | HVAC | New | building | 3,381 | 3.7% | 0.03 | 15 | \$9,738 | 94% | 0.01 |
| DLC | Chiller Tuneup/Diagnostics | Mfg: Paper | HVAC | Existing | building | 3,381 | 8.0% | 0.10 | 10 | \$8,634 | 59% | 0.02 |
| DLC | Chiller Tuneup/Diagnostics | Mfg: Paper | HVAC | New | building | 3,381 | 8.0% | 0.10 | 10 | \$8,634 | 59% | 0.02 |
| DLC | Cooling Tower Optimization | Mfg: Paper | HVAC | Existing | building | 3,381 | 20% | 0.24 | 10 | \$21 | 12% | 6.05 |
| DLC | Duct Insulation, Add R8 | Mfg: Paper | HVAC | Existing | building | 3,381 | 1.5% | 0.01 | 15 | \$27 | 18% | 1.30 |
| DLC | Duct Insulation, Add R8 | Mfg: Paper | HVAC | New | building | 3,381 | 1.5% | 0.01 | 15 | \$27 | 9% | 1.30 |
| DLC | Ductless Heat Pump | Mfg: Paper | HVAC | Early | heat pump | 3,381 | 0.8% | 0.01 | 15 | \$269 | 83% | 0.08 |
| DLC | Ductless Heat Pump | Mfg: Paper | HVAC | New | heat pump | 3,381 | 0.4% | 0.00 | 15 | \$78 | 83% | 0.15 |
| DLC | Ductless Heat Pump | Mfg: Paper | HVAC | ROB | heat pump | 3,381 | 0.4% | 0.00 | 15 | \$78 | 83% | 0.15 |
| DLC | DX Coil Cleaning | Mfg: Paper | HVAC | Existing | building | 3,381 | 13% | 0.16 | 1 | \$32 | 73% | 0.43 |
| DLC | DX Coil Cleaning | Mfg: Paper | HVAC | New | building | 3,381 | 13% | 0.16 | 1 | \$32 | 73% | 0.43 |
| DLC | Efficient Unit Heating System | Mfg: Paper | HVAC | Early | heater | 3,381 | 6.9% | 0.00 | 15 | \$182 | 83% | 0.68 |
| DLC | Efficient Unit Heating System | Mfg: Paper | HVAC | New | heater | 3,381 | 4.0% | 0.00 | 15 | \$124 | 83% | 0.58 |
| DLC | Efficient Unit Heating System | Mfg: Paper | HVAC | ROB | heater | 3,381 | 4.0% | 0.00 | 15 | \$124 | 83% | 0.58 |
| DLC | Ground Source Heat Pump (Closed Loop) | Mfg: Paper | HVAC | Early | heat pump | 3,381 | 1.3% | 0.01 | 15 | \$558 | 19% | 0.06 |
| DLC | Ground Source Heat Pump (Closed Loop) | Mfg: Paper | HVAC | New | heat pump | 3,381 | 1.0% | 0.01 | 15 | \$220 | 19% | 0.12 |
| DLC | Ground Source Heat Pump (Closed Loop) | Mfg: Paper | HVAC | ROB | heat pump | 3,381 | 1.0% | 0.01 | 15 | \$220 | 19% | 0.12 |
| DLC | Ground Source Heat Pump (Open Loop) | Mfg: Paper | HVAC | Early | heat pump | 3,381 | 1.3% | 0.01 | 15 | \$357 | 19% | 0.09 |
| DLC | Ground Source Heat Pump (Open Loop) | Mfg: Paper | HVAC | New | heat pump | 3,381 | 1.0% | 0.01 | 15 | \$7.6 | 19% | 2.67 |
| DLC | Ground Source Heat Pump (Open Loop) | Mfg: Paper | HVAC | ROB | heat pump | 3,381 | 1.0% | 0.01 | 15 | \$7.6 | 19% | 2.67 |
| DLC | HE Air Cooled Chiller, 100 Tons | Mfg: Paper | HVAC | Early | unit (ton) | 3,381 | 1.5% | 0.01 | 15 | \$3,975 | 89% | 0.01 |
| DLC | HE Air Cooled Chiller, 100 Tons | Mfg: Paper | HVAC | New | unit (ton) | 3,381 | 0.4% | 0.00 | 15 | \$579 | 89% | 0.02 |
| DLC | HE Air Cooled Chiller, 100 Tons | Mfg: Paper | HVAC | ROB | unit (ton) | 3,381 | 0.4% | 0.00 | 15 | \$579 | 89% | 0.02 |
| DLC | HE Air Cooled Chiller, 150 Tons | Mfg: Paper | HVAC | Early | unit (ton) | 3,381 | 1.5% | 0.01 | 15 | \$3,434 | 89% | 0.01 |
| DLC | HE Air Cooled Chiller, 150 Tons | Mfg: Paper | HVAC | New | unit (ton) | 3,381 | 0.3% | 0.00 | 15 | \$284 | 89% | 0.03 |
| DLC | HE Air Cooled Chiller, 150 Tons | Mfg: Paper | HVAC | ROB | unit (ton) | 3,381 | 0.3% | 0.00 | 15 | \$284 | 89% | 0.03 |
| DLC | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Paper | HVAC | Early | heat pump | 3,381 | 1.4% | 0.01 | 12 | \$146 | 81% | 0.20 |
| DLC | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Paper | HVAC | Early | heat pump | 3,381 | 1.1% | 0.01 | 12 | \$106 | 81% | 0.22 |
| DLC | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Paper | HVAC | New | heat pump | 3,381 | 1.0% | 0.01 | 12 | \$65 | 81% | 0.32 |
| DLC | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Paper | HVAC | New | heat pump | 3,381 | 0.8% | 0.01 | 12 | \$23 | 81% | 0.66 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|------------|----------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Paper | HVAC | ROB | heat pump | 3,381 | 1.0% | 0.01 | 12 | \$65 | 81% | 0.32 |
| DLC | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Paper | HVAC | ROB | heat pump | 3,381 | 0.8% | 0.01 | 12 | \$23 | 81% | 0.66 |
| DLC | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Paper | HVAC | Early | unit (ton) | 3,381 | 1.6% | 0.01 | 15 | \$315 | 89% | 0.13 |
| DLC | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Paper | HVAC | New | unit (ton) | 3,381 | 0.9% | 0.01 | 15 | \$105 | 89% | 0.23 |
| DLC | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Paper | HVAC | ROB | unit (ton) | 3,381 | 0.9% | 0.01 | 15 | \$105 | 89% | 0.23 |
| DLC | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Paper | HVAC | Early | unit (ton) | 3,381 | 1.4% | 0.01 | 15 | \$308 | 89% | 0.12 |
| DLC | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Paper | HVAC | New | unit (ton) | 3,381 | 1.0% | 0.01 | 15 | \$60 | 89% | 0.42 |
| DLC | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Paper | HVAC | ROB | unit (ton) | 3,381 | 1.4% | 0.01 | 15 | \$55 | 89% | 0.63 |
| DLC | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Paper | HVAC | Early | unit (ton) | 3,381 | 1.4% | 0.01 | 15 | \$365 | 89% | 0.10 |
| DLC | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Paper | HVAC | New | unit (ton) | 3,381 | 0.9% | 0.01 | 15 | \$154 | 89% | 0.15 |
| DLC | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Paper | HVAC | ROB | unit (ton) | 3,381 | 1.4% | 0.01 | 15 | \$139 | 89% | 0.26 |
| DLC | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Paper | HVAC | Early | unit (ton) | 3,381 | 1.4% | 0.01 | 15 | \$351 | 89% | 0.10 |
| DLC | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Paper | HVAC | New | unit (ton) | 3,381 | 0.9% | 0.01 | 15 | \$133 | 89% | 0.17 |
| DLC | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Paper | HVAC | ROB | unit (ton) | 3,381 | 1.4% | 0.01 | 15 | \$121 | 89% | 0.30 |
| DLC | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Paper | HVAC | Early | unit (ton) | 3,381 | 1.8% | 0.01 | 15 | \$378 | 89% | 0.12 |
| DLC | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Paper | HVAC | New | unit (ton) | 3,381 | 0.6% | 0.00 | 15 | \$234 | 89% | 0.06 |
| DLC | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Paper | HVAC | ROB | unit (ton) | 3,381 | 1.8% | 0.01 | 15 | \$182 | 89% | 0.26 |
| DLC | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Paper | HVAC | Early | unit (ton) | 3,381 | 2.2% | 0.02 | 15 | \$348 | 89% | 0.16 |
| DLC | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Paper | HVAC | New | unit (ton) | 3,381 | 0.8% | 0.01 | 15 | \$140 | 89% | 0.14 |
| DLC | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Paper | HVAC | ROB | unit (ton) | 3,381 | 0.8% | 0.01 | 15 | \$140 | 89% | 0.14 |
| DLC | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Paper | HVAC | Early | unit (ton) | 3,381 | 2.4% | 0.02 | 15 | \$295 | 89% | 0.21 |
| DLC | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Paper | HVAC | New | unit (ton) | 3,381 | 0.9% | 0.01 | 15 | \$74 | 89% | 0.31 |
| DLC | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Paper | HVAC | ROB | unit (ton) | 3,381 | 2.4% | 0.02 | 15 | \$53 | 89% | 1.08 |
| DLC | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Paper | HVAC | Early | unit (ton) | 3,381 | 1.8% | 0.01 | 15 | \$292 | 89% | 0.16 |
| DLC | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Paper | HVAC | New | unit (ton) | 3,381 | 0.7% | 0.01 | 15 | \$82 | 89% | 0.22 |
| DLC | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Paper | HVAC | ROB | unit (ton) | 3,381 | 1.8% | 0.01 | 15 | \$65 | 89% | 0.69 |
| DLC | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Paper | HVAC | Existing | building | 3,381 | 2.9% | 0.02 | 5 | \$36 | 55% | 0.55 |
| DLC | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Paper | HVAC | New | building | 3,381 | 0.6% | 0.01 | 5 | \$22 | 51% | 0.28 |
| DLC | Improved Controls - HVAC | Mfg: Paper | HVAC | Existing | end use | 3,381 | 21% | 0.10 | 10 | \$36 | 76% | 3.87 |
| DLC | Improved Controls - HVAC | Mfg: Paper | HVAC | New | end use | 3,381 | 21% | 0.10 | 10 | \$36 | 76% | 3.87 |
| DLC | Outside Air Economizer | Mfg: Paper | HVAC | Existing | building | 3,381 | 1.1% | 0.01 | 10 | \$12,423 | 82% | 0.00 |
| DLC | Outside Air Economizer | Mfg: Paper | HVAC | New | building | 3,381 | 1.1% | 0.01 | 10 | \$12,423 | 82% | 0.00 |
| DLC | Recommissioning | Mfg: Paper | HVAC | Existing | end use | 3,381 | 5.0% | 0.02 | 10 | \$4.6 | 88% | 4.78 |
| DLC | Recommissioning | Mfg: Paper | HVAC | New | end use | 3,381 | 5.0% | 0.02 | 10 | \$4.6 | 88% | 4.78 |
| DLC | Room AC (with louvered sides) | Mfg: Paper | HVAC | Early | unit (ton) | 3,381 | 7.7% | 0.06 | 9 | \$265 | 78% | 0.43 |
| DLC | Room AC (with louvered sides) | Mfg: Paper | HVAC | New | unit (ton) | 3,381 | 2.6% | 0.02 | 9 | \$15 | 78% | 1.95 |
| DLC | Room AC (with louvered sides) | Mfg: Paper | HVAC | ROB | unit (ton) | 3,381 | 2.6% | 0.02 | 9 | \$15 | 78% | 1.95 |
| DLC | Variable Refrigerant Flow Heat Pump | Mfg: Paper | HVAC | New | measure | 3,381 | 0.1% | 0.00 | 13 | \$25 | 43% | 0.10 |
| DLC | Variable Refrigerant Flow Heat Pump | Mfg: Paper | HVAC | ROB | measure | 3,381 | 0.1% | 0.00 | 13 | \$25 | 43% | 0.10 |
| DLC | VFD on Cooling Tower Fan | Mfg: Paper | HVAC | Early | motor | 3,381 | 21% | 0.21 | 15 | \$156 | 15% | 2.92 |
| DLC | VFD on Cooling Tower Fan | Mfg: Paper | HVAC | New | motor | 3,381 | 22% | 0.21 | 15 | \$159 | 15% | 2.90 |
| DLC | VFD on Cooling Tower Fan | Mfg: Paper | HVAC | ROB | motor | 3,381 | 22% | 0.21 | 15 | \$159 | 15% | 2.90 |
| DLC | Wall Insualtions (Going upto R 21) | Mfg: Paper | HVAC | Existing | building | 3,381 | 19% | 0.16 | 15 | \$2,405 | 26% | 0.21 |
| DLC | Wall Insualtions (Going upto R 21) | Mfg: Paper | HVAC | New | building | 3,381 | 0.6% | 0.01 | 15 | \$1,845 | 94% | 0.01 |
| DLC | Water Source Heat Pump (4 ton) | Mfg: Paper | HVAC | Early | heat pump | 3,381 | 1.5% | 0.01 | 15 | \$577 | 28% | 0.07 |
| DLC | Water Source Heat Pump (4 ton) | Mfg: Paper | HVAC | New | heat pump | 3,381 | 1.1% | 0.01 | 15 | \$281 | 28% | 0.10 |
| DLC | Water Source Heat Pump (4 ton) | Mfg: Paper | HVAC | ROB | heat pump | 3,381 | 1.1% | 0.01 | 15 | \$281 | 28% | 0.10 |
| DLC | Efficient Metal Halide (High Bay) | Mfg: Paper | Lighting | Early | end use | 3,434 | 42% | 0.00 | 9 | \$537 | 53% | 0.73 |
| DLC | Efficient Metal Halide (High Bay) | Mfg: Paper | Lighting | New | end use | 3,434 | 41% | 0.00 | 13 | \$14,333 | 61% | 0.05 |
| DLC | Efficient Metal Halide (High Bay) | Mfg: Paper | Lighting | ROB | end use | 3,434 | 41% | 0.00 | 13 | \$10,954 | 61% | 0.06 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---------------------------------------|------------|----------|----------|---------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Induction (High Bay) | Mfg: Paper | Lighting | Early | end use | 3,434 | 94% | 0.00 | 13 | \$1,597 | 95% | 0.88 |
| DLC | Induction (High Bay) | Mfg: Paper | Lighting | New | end use | 3,434 | 94% | 0.00 | 13 | \$1,495 | 95% | 0.93 |
| DLC | Induction (High Bay) | Mfg: Paper | Lighting | ROB | end use | 3,434 | 94% | 0.00 | 13 | \$1,136 | 95% | 1.18 |
| DLC | LED (High Bay) | Mfg: Paper | Lighting | Early | end use | 3,434 | 69% | 0.00 | 14 | \$1,879 | 95% | 0.61 |
| DLC | LED (High Bay) | Mfg: Paper | Lighting | New | end use | 3,434 | 55% | 0.00 | 14 | \$2,086 | 95% | 0.45 |
| DLC | LED (High Bay) | Mfg: Paper | Lighting | ROB | end use | 3,434 | 59% | 0.00 | 14 | \$1,375 | 95% | 0.71 |
| DLC | Lighting Controls | Mfg: Paper | Lighting | Existing | end use | 3,434 | 20% | 0.00 | 6 | \$12,874 | 16% | 0.01 |
| DLC | Lighting Controls | Mfg: Paper | Lighting | New | end use | 3,434 | 12% | 0.00 | 10 | \$17,126 | 11% | 0.01 |
| DLC | Linear Fluorescent (High Bay) | Mfg: Paper | Lighting | Early | end use | 3,434 | 17% | 0.00 | 14 | \$393 | 98% | 0.71 |
| DLC | Linear Fluorescent (High Bay) | Mfg: Paper | Lighting | New | end use | 3,434 | 13% | 0.00 | 14 | \$125 | 91% | 1.50 |
| DLC | Linear Fluorescent (High Bay) | Mfg: Paper | Lighting | ROB | end use | 3,434 | 13% | 0.00 | 14 | \$80 | 91% | 2.16 |
| DLC | Metal Halide (High Bay) | Mfg: Paper | Lighting | Early | end use | 3,434 | 62% | 0.00 | 13 | \$2,361 | 38% | 0.42 |
| DLC | Metal Halide (High Bay) | Mfg: Paper | Lighting | New | end use | 3,434 | 73% | 0.00 | 13 | \$564 | 38% | 1.67 |
| DLC | Metal Halide (High Bay) | Mfg: Paper | Lighting | ROB | end use | 3,434 | 73% | 0.00 | 13 | \$429 | 38% | 2.05 |
| DLC | Screw Base CFL | Mfg: Paper | Lighting | Early | end use | 3,434 | 80% | 0.00 | 7 | \$933 | 17% | 0.54 |
| DLC | Screw Base CFL | Mfg: Paper | Lighting | New | end use | 3,434 | 73% | 0.00 | 9 | \$762 | 18% | 0.85 |
| DLC | Screw Base CFL | Mfg: Paper | Lighting | ROB | end use | 3,434 | 73% | 0.00 | 9 | \$638 | 17% | 0.98 |
| DLC | Screw Base LED | Mfg: Paper | Lighting | Early | end use | 3,434 | 76% | 0.00 | 9 | \$573 | 21% | 1.17 |
| DLC | Screw Base LED | Mfg: Paper | Lighting | New | end use | 3,434 | 77% | 0.00 | 9 | \$319 | 20% | 1.79 |
| DLC | Screw Base LED | Mfg: Paper | Lighting | ROB | end use | 3,434 | 77% | 0.00 | 9 | \$253 | 21% | 2.05 |
| DLC | T8 High Performance Linear Florescent | Mfg: Paper | Lighting | Early | end use | 3,434 | 36% | 0.00 | 14 | \$329 | 71% | 1.59 |
| DLC | T8 High Performance Linear Florescent | Mfg: Paper | Lighting | New | end use | 3,434 | 26% | 0.00 | 14 | \$118 | 76% | 2.67 |
| DLC | T8 High Performance Linear Florescent | Mfg: Paper | Lighting | ROB | end use | 3,434 | 26% | 0.00 | 14 | \$89 | 76% | 3.16 |
| DLC | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Paper | Motors | Early | end use | 5,189 | 0.9% | 0.01 | 15 | \$79 | 81% | 0.40 |
| DLC | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Paper | Motors | New | end use | 5,189 | 0.9% | 0.01 | 15 | \$79 | 81% | 0.40 |
| DLC | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Paper | Motors | ROB | end use | 5,189 | 0.9% | 0.01 | 15 | \$79 | 81% | 0.40 |
| DLC | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Paper | Motors | Early | end use | 5,189 | 0.7% | 0.01 | 15 | \$48 | 73% | 0.53 |
| DLC | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Paper | Motors | New | end use | 5,189 | 0.8% | 0.01 | 15 | \$48 | 73% | 0.53 |
| DLC | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Paper | Motors | ROB | end use | 5,189 | 0.7% | 0.01 | 15 | \$48 | 73% | 0.53 |
| DLC | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Paper | Motors | Early | end use | 5,189 | 0.5% | 0.00 | 15 | \$18 | 81% | 0.84 |
| DLC | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Paper | Motors | New | end use | 5,189 | 0.5% | 0.00 | 15 | \$18 | 81% | 0.81 |
| DLC | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Paper | Motors | ROB | end use | 5,189 | 0.5% | 0.00 | 15 | \$18 | 81% | 0.83 |
| DLC | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Paper | Motors | Early | end use | 5,189 | 0.4% | 0.00 | 15 | \$6.1 | 73% | 1.92 |
| DLC | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Paper | Motors | New | end use | 5,189 | 0.4% | 0.00 | 15 | \$6.1 | 73% | 1.95 |
| DLC | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Paper | Motors | ROB | end use | 5,189 | 0.4% | 0.00 | 15 | \$6.1 | 73% | 1.89 |
| DLC | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Paper | Motors | Early | end use | 5,189 | 0.9% | 0.01 | 15 | \$9.1 | 47% | 2.69 |
| DLC | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Paper | Motors | New | end use | 5,189 | 0.9% | 0.01 | 15 | \$9.1 | 47% | 2.66 |
| DLC | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Paper | Motors | ROB | end use | 5,189 | 0.9% | 0.01 | 15 | \$9.1 | 47% | 2.67 |
| DLC | Facility Energy Management | Mfg: Paper | Motors | Existing | end use | 5,189 | 1.8% | 0.01 | 2 | \$2.0 | 77% | 1.02 |
| DLC | Facility Energy Management | Mfg: Paper | Motors | New | end use | 5,189 | 1.8% | 0.01 | 2 | \$2.0 | 77% | 1.02 |
| DLC | HE Motors | Mfg: Paper | Motors | Early | end use | 5,189 | 2.0% | 0.02 | 15 | \$31 | 38% | 1.93 |
| DLC | HE Motors | Mfg: Paper | Motors | New | end use | 5,189 | 2.0% | 0.02 | 15 | \$31 | 38% | 1.93 |
| DLC | HE Motors | Mfg: Paper | Motors | ROB | end use | 5,189 | 2.0% | 0.02 | 15 | \$31 | 38% | 1.93 |
| DLC | High-Efficiency Ventilation System | Mfg: Paper | Motors | Early | end use | 5,189 | 5.7% | 0.04 | 10 | \$324 | 73% | 0.40 |
| DLC | High-Efficiency Ventilation System | Mfg: Paper | Motors | New | end use | 5,189 | 5.7% | 0.04 | 10 | \$324 | 73% | 0.40 |
| DLC | High-Efficiency Ventilation System | Mfg: Paper | Motors | ROB | end use | 5,189 | 5.7% | 0.04 | 10 | \$324 | 73% | 0.39 |
| DLC | Improved Controls - Motors | Mfg: Paper | Motors | Existing | end use | 5,189 | 4.0% | 0.03 | 10 | \$23 | 73% | 2.57 |
| DLC | Improved Controls - Motors | Mfg: Paper | Motors | New | end use | 5,189 | 4.0% | 0.03 | 10 | \$23 | 73% | 2.57 |
| DLC | Material Handling | Mfg: Paper | Motors | Early | end use | 5,189 | 18% | 0.14 | 10 | \$251 | 77% | 1.39 |
| DLC | Material Handling | Mfg: Paper | Motors | New | end use | 5,189 | 18% | 0.14 | 10 | \$251 | 77% | 1.39 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|------------|------------------------|----------|---------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Material Handling | Mfg: Paper | Motors | ROB | end use | 5,189 | 18% | 0.14 | 10 | \$251 | 77% | 1.39 |
| DLC | Material Handling VFD | Mfg: Paper | Motors | Early | end use | 5,189 | 16% | 0.12 | 10 | \$173 | 77% | 1.67 |
| DLC | Material Handling VFD | Mfg: Paper | Motors | New | end use | 5,189 | 16% | 0.12 | 10 | \$173 | 77% | 1.67 |
| DLC | Material Handling VFD | Mfg: Paper | Motors | ROB | end use | 5,189 | 16% | 0.12 | 10 | \$173 | 77% | 1.67 |
| DLC | Motor Management Plan | Mfg: Paper | Motors | Existing | end use | 5,189 | 2.9% | 0.02 | 10 | \$11 | 73% | 3.29 |
| DLC | Motor Management Plan | Mfg: Paper | Motors | New | end use | 5,189 | 2.9% | 0.02 | 10 | \$11 | 73% | 3.29 |
| DLC | Motors Other | Mfg: Paper | Motors | Existing | end use | 5,189 | 1.1% | 0.01 | 15 | \$1.0 | 83% | 7.86 |
| DLC | Motors Other | Mfg: Paper | Motors | New | end use | 5,189 | 1.1% | 0.01 | 15 | \$1.0 | 83% | 7.86 |
| DLC | Motors: Rewind 101-200 HP | Mfg: Paper | Motors | Existing | end use | 5,189 | 0.6% | 0.00 | 10 | \$6.6 | 27% | 1.55 |
| DLC | Motors: Rewind 101-200 HP | Mfg: Paper | Motors | New | end use | 5,189 | 0.6% | 0.00 | 10 | \$6.6 | 27% | 1.55 |
| DLC | Motors: Rewind 201-500 HP | Mfg: Paper | Motors | Existing | end use | 5,189 | 0.5% | 0.00 | 8 | \$4.1 | 27% | 1.64 |
| DLC | Motors: Rewind 201-500 HP | Mfg: Paper | Motors | New | end use | 5,189 | 0.5% | 0.00 | 8 | \$4.1 | 27% | 1.64 |
| DLC | Motors: Rewind 20-50 HP | Mfg: Paper | Motors | Existing | end use | 5,189 | 1.0% | 0.01 | 11 | \$19 | 42% | 1.22 |
| DLC | Motors: Rewind 20-50 HP | Mfg: Paper | Motors | New | end use | 5,189 | 1.0% | 0.01 | 11 | \$19 | 42% | 1.22 |
| DLC | Motors: Rewind 500+ HP | Mfg: Paper | Motors | Existing | end use | 5,189 | 0.6% | 0.00 | 8 | \$2.9 | 11% | 2.06 |
| DLC | Motors: Rewind 500+ HP | Mfg: Paper | Motors | New | end use | 5,189 | 0.6% | 0.00 | 8 | \$2.9 | 11% | 2.06 |
| DLC | Motors: Rewind 51-100 HP | Mfg: Paper | Motors | Existing | end use | 5,189 | 0.6% | 0.00 | 9 | \$9.5 | 42% | 1.09 |
| DLC | Motors: Rewind 51-100 HP | Mfg: Paper | Motors | New | end use | 5,189 | 0.6% | 0.00 | 9 | \$9.5 | 42% | 1.09 |
| DLC | Paper: Large Material Handling | Mfg: Paper | Motors | Early | end use | 5,189 | 9.7% | 0.07 | 10 | \$389 | 64% | 0.55 |
| DLC | Paper: Large Material Handling | Mfg: Paper | Motors | New | end use | 5,189 | 9.7% | 0.07 | 10 | \$389 | 64% | 0.55 |
| DLC | Paper: Large Material Handling | Mfg: Paper | Motors | ROB | end use | 5,189 | 9.7% | 0.07 | 10 | \$389 | 64% | 0.55 |
| DLC | Paper: Material Handling | Mfg: Paper | Motors | Early | end use | 5,189 | 13% | 0.10 | 10 | \$437 | 64% | 0.65 |
| DLC | Paper: Material Handling | Mfg: Paper | Motors | New | end use | 5,189 | 13% | 0.10 | 10 | \$437 | 64% | 0.65 |
| DLC | Paper: Material Handling | Mfg: Paper | Motors | ROB | end use | 5,189 | 13% | 0.10 | 10 | \$437 | 64% | 0.65 |
| DLC | Paper: Premium Control Large Material | Mfg: Paper | Motors | Existing | end use | 5,189 | 19% | 0.14 | 10 | \$428 | 69% | 0.91 |
| DLC | Paper: Premium Control Large Material | Mfg: Paper | Motors | New | end use | 5,189 | 19% | 0.14 | 10 | \$428 | 69% | 0.91 |
| DLC | Switch from Belt drive to Direct Drive | Mfg: Paper | Motors | Early | end use | 5,189 | 7.5% | 0.06 | 12 | \$83 | 30% | 1.98 |
| DLC | Switch from Belt drive to Direct Drive | Mfg: Paper | Motors | New | end use | 5,189 | 7.5% | 0.06 | 12 | \$83 | 30% | 1.99 |
| DLC | Switch from Belt drive to Direct Drive | Mfg: Paper | Motors | ROB | end use | 5,189 | 7.5% | 0.06 | 12 | \$83 | 30% | 1.98 |
| DLC | Synchronous Belts | Mfg: Paper | Motors | Early | end use | 5,189 | 1.2% | 0.01 | 10 | \$7.6 | 30% | 2.36 |
| DLC | Synchronous Belts | Mfg: Paper | Motors | New | end use | 5,189 | 1.2% | 0.01 | 10 | \$7.6 | 30% | 2.36 |
| DLC | Synchronous Belts | Mfg: Paper | Motors | ROB | end use | 5,189 | 1.2% | 0.01 | 10 | \$7.6 | 30% | 2.36 |
| DLC | Bldg Improvements | Mfg: Paper | Other | Existing | end use | 954 | 16% | 0.02 | 15 | \$21 | 72% | 3.29 |
| DLC | Bldg Improvements | Mfg: Paper | Other | New | end use | 954 | 16% | 0.02 | 15 | \$21 | 72% | 3.29 |
| DLC | Energy Project Management | Mfg: Paper | Other | Existing | end use | 954 | 29% | 0.03 | 11 | \$34 | 63% | 2.57 |
| DLC | Energy Project Management | Mfg: Paper | Other | New | end use | 954 | 29% | 0.03 | 11 | \$34 | 63% | 2.57 |
| DLC | Facility Energy Management | Mfg: Paper | Other | Existing | end use | 954 | 1.8% | 0.00 | 2 | \$0.4 | 76% | 0.99 |
| DLC | Facility Energy Management | Mfg: Paper | Other | New | end use | 954 | 1.8% | 0.00 | 2 | \$0.4 | 76% | 0.99 |
| DLC | Integrated Plant Energy Management | Mfg: Paper | Other | Existing | end use | 954 | 50% | 0.06 | 11 | \$94 | 48% | 1.86 |
| DLC | Integrated Plant Energy Management | Mfg: Paper | Other | New | end use | 954 | 50% | 0.06 | 11 | \$94 | 48% | 1.86 |
| DLC | Plant Energy Management | Mfg: Paper | Other | Existing | end use | 954 | 12% | 0.01 | 10 | \$2.4 | 55% | 4.91 |
| DLC | Plant Energy Management | Mfg: Paper | Other | New | end use | 954 | 12% | 0.01 | 10 | \$2.4 | 55% | 4.91 |
| DLC | Transformers | Mfg: Paper | Other | Early | end use | 954 | 1.6% | 0.00 | 15 | \$3.0 | 34% | 2.52 |
| DLC | Transformers | Mfg: Paper | Other | New | end use | 954 | 1.6% | 0.00 | 15 | \$3.0 | 34% | 2.51 |
| DLC | Transformers | Mfg: Paper | Other | ROB | end use | 954 | 1.6% | 0.00 | 15 | \$3.0 | 34% | 2.51 |
| DLC | Air Compressor Demand Reduction | Mfg: Paper | Process Air Compressor | Existing | end use | 156 | 26% | 0.01 | 10 | \$2.3 | 40% | 3.54 |
| DLC | Air Compressor Demand Reduction | Mfg: Paper | Process Air Compressor | New | end use | 156 | 26% | 0.01 | 10 | \$2.3 | 40% | 3.54 |
| DLC | Air Compressor Equipment | Mfg: Paper | Process Air Compressor | Early | end use | 156 | 39% | 0.01 | 10 | \$2.8 | 56% | 3.89 |
| DLC | Air Compressor Equipment | Mfg: Paper | Process Air Compressor | New | end use | 156 | 39% | 0.01 | 10 | \$2.8 | 56% | 3.89 |
| DLC | Air Compressor Equipment | Mfg: Paper | Process Air Compressor | ROB | end use | 156 | 39% | 0.01 | 10 | \$2.8 | 56% | 3.89 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|-------------------------------------|------------|------------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Air Compressor Optimization | Mfg: Paper | Process Air Compressor | Existing | end use | 156 | 39% | 0.01 | 10 | \$6.8 | 42% | 2.51 |
| DLC | Air Compressor Optimization | Mfg: Paper | Process Air Compressor | New | end use | 156 | 39% | 0.01 | 10 | \$6.8 | 42% | 2.51 |
| DLC | Facility Energy Management | Mfg: Paper | Process Air Compressor | Existing | end use | 156 | 1.8% | 0.00 | 2 | \$0.1 | 50% | 1.00 |
| DLC | Facility Energy Management | Mfg: Paper | Process Air Compressor | New | end use | 156 | 1.8% | 0.00 | 2 | \$0.1 | 50% | 1.00 |
| DLC | HE Compressor motors | Mfg: Paper | Process Air Compressor | Early | end use | 156 | 1.1% | 0.00 | 15 | \$0.6 | 56% | 1.67 |
| DLC | HE Compressor motors | Mfg: Paper | Process Air Compressor | New | end use | 156 | 1.1% | 0.00 | 15 | \$0.6 | 56% | 1.66 |
| DLC | HE Compressor motors | Mfg: Paper | Process Air Compressor | ROB | end use | 156 | 1.1% | 0.00 | 15 | \$0.6 | 56% | 1.67 |
| DLC | Improved Controls - Air Compressor | Mfg: Paper | Process Air Compressor | Existing | end use | 156 | 41% | 0.01 | 10 | \$2.8 | 19% | 3.98 |
| DLC | Improved Controls - Air Compressor | Mfg: Paper | Process Air Compressor | New | end use | 156 | 41% | 0.01 | 10 | \$2.8 | 19% | 3.98 |
| DLC | Low Pressure-drop Filters | Mfg: Paper | Process Air Compressor | Existing | end use | 156 | 1.8% | 0.00 | 10 | \$1.8 | 46% | 0.66 |
| DLC | Low Pressure-drop Filters | Mfg: Paper | Process Air Compressor | New | end use | 156 | 1.8% | 0.00 | 10 | \$1.8 | 46% | 0.66 |
| DLC | Outside Air Intake | Mfg: Paper | Process Air Compressor | Existing | end use | 156 | 1.4% | 0.00 | 10 | \$1.0 | 37% | 0.86 |
| DLC | Outside Air Intake | Mfg: Paper | Process Air Compressor | New | end use | 156 | 1.4% | 0.00 | 10 | \$1.0 | 37% | 0.86 |
| DLC | Receiver Capacity Addition | Mfg: Paper | Process Air Compressor | Existing | end use | 156 | 5.9% | 0.00 | 10 | \$2.9 | 28% | 1.19 |
| DLC | Receiver Capacity Addition | Mfg: Paper | Process Air Compressor | New | end use | 156 | 5.9% | 0.00 | 10 | \$2.9 | 28% | 1.19 |
| DLC | Refrigerated Cycling Dryers | Mfg: Paper | Process Air Compressor | Early | end use | 156 | 1.7% | 0.00 | 10 | \$0.4 | 16% | 2.20 |
| DLC | Refrigerated Cycling Dryers | Mfg: Paper | Process Air Compressor | New | end use | 156 | 1.7% | 0.00 | 10 | \$0.4 | 16% | 2.18 |
| DLC | Refrigerated Cycling Dryers | Mfg: Paper | Process Air Compressor | ROB | end use | 156 | 1.7% | 0.00 | 10 | \$0.4 | 16% | 2.20 |
| DLC | VFD Controlled Compressor | Mfg: Paper | Process Air Compressor | Early | end use | 156 | 24% | 0.00 | 10 | \$15 | 22% | 0.94 |
| DLC | VFD Controlled Compressor | Mfg: Paper | Process Air Compressor | New | end use | 156 | 24% | 0.00 | 10 | \$15 | 22% | 0.94 |
| DLC | VFD Controlled Compressor | Mfg: Paper | Process Air Compressor | ROB | end use | 156 | 24% | 0.00 | 10 | \$15 | 22% | 0.94 |
| DLC | Zero Loss Condensate Drain | Mfg: Paper | Process Air Compressor | Early | end use | 156 | 1.8% | 0.00 | 10 | \$0.9 | 28% | 1.19 |
| DLC | Zero Loss Condensate Drain | Mfg: Paper | Process Air Compressor | New | end use | 156 | 1.9% | 0.00 | 10 | \$0.9 | 28% | 1.20 |
| DLC | Zero Loss Condensate Drain | Mfg: Paper | Process Air Compressor | ROB | end use | 156 | 1.8% | 0.00 | 10 | \$0.9 | 28% | 1.20 |
| DLC | Cooling Tower Optimization | Mfg: Paper | Process Cooling | Existing | building | 587 | 20% | 0.04 | 10 | \$3.6 | 15% | 6.01 |
| DLC | Equipment: Chillers | Mfg: Paper | Process Cooling | Early | end use | 587 | 18% | 0.02 | 15 | \$28 | 46% | 2.28 |
| DLC | Equipment: Chillers | Mfg: Paper | Process Cooling | New | end use | 587 | 18% | 0.02 | 15 | \$28 | 46% | 2.28 |
| DLC | Equipment: Chillers | Mfg: Paper | Process Cooling | ROB | end use | 587 | 18% | 0.02 | 15 | \$28 | 46% | 2.28 |
| DLC | Facility Energy Management | Mfg: Paper | Process Cooling | Existing | end use | 587 | 1.8% | 0.00 | 2 | \$0.2 | 59% | 1.14 |
| DLC | Facility Energy Management | Mfg: Paper | Process Cooling | New | end use | 587 | 1.8% | 0.00 | 2 | \$0.2 | 59% | 1.14 |
| DLC | Improved Controls - Process Cooling | Mfg: Paper | Process Cooling | Existing | end use | 587 | 6.0% | 0.01 | 10 | \$31 | 56% | 0.54 |
| DLC | Improved Controls - Process Cooling | Mfg: Paper | Process Cooling | New | end use | 587 | 6.0% | 0.01 | 10 | \$31 | 56% | 0.54 |
| DLC | VFD on Cooling Tower Fan | Mfg: Paper | Process Cooling | Early | motor | 587 | 21% | 0.04 | 15 | \$27 | 20% | 2.91 |
| DLC | VFD on Cooling Tower Fan | Mfg: Paper | Process Cooling | New | motor | 587 | 22% | 0.04 | 15 | \$28 | 20% | 2.89 |
| DLC | VFD on Cooling Tower Fan | Mfg: Paper | Process Cooling | ROB | motor | 587 | 22% | 0.04 | 15 | \$28 | 20% | 2.89 |
| DLC | Improved Controls - Process Heating | Mfg: Paper | Process Heating | Existing | end use | 2,473 | 17% | 0.06 | 10 | \$28 | 77% | 3.32 |
| DLC | Improved Controls - Process Heating | Mfg: Paper | Process Heating | New | end use | 2,473 | 17% | 0.06 | 10 | \$28 | 77% | 3.32 |
| DLC | Process Heat O&M | Mfg: Paper | Process Heating | Existing | end use | 2,473 | 16% | 0.05 | 2 | \$17 | 77% | 0.80 |
| DLC | Process Heat O&M | Mfg: Paper | Process Heating | New | end use | 2,473 | 16% | 0.05 | 2 | \$17 | 77% | 0.80 |
| DLC | Facility Energy Management | Mfg: Paper | Process Other | Existing | end use | 1,241 | 1.8% | 0.00 | 2 | \$0.5 | 73% | 1.02 |
| DLC | Facility Energy Management | Mfg: Paper | Process Other | New | end use | 1,241 | 1.8% | 0.00 | 2 | \$0.5 | 73% | 1.02 |
| DLC | Kraft: Efficient Agitator | Mfg: Paper | Process Other | Early | end use | 1,241 | 50% | 0.09 | 10 | \$52 | 22% | 3.00 |
| DLC | Kraft: Efficient Agitator | Mfg: Paper | Process Other | New | end use | 1,241 | 50% | 0.09 | 10 | \$52 | 22% | 3.00 |
| DLC | Kraft: Efficient Agitator | Mfg: Paper | Process Other | ROB | end use | 1,241 | 50% | 0.09 | 10 | \$52 | 22% | 3.00 |
| DLC | Kraft: Effluent Treatment System | Mfg: Paper | Process Other | Early | end use | 1,241 | 15% | 0.03 | 10 | \$14 | 22% | 3.20 |
| DLC | Kraft: Effluent Treatment System | Mfg: Paper | Process Other | New | end use | 1,241 | 15% | 0.03 | 10 | \$14 | 22% | 3.20 |
| DLC | Kraft: Effluent Treatment System | Mfg: Paper | Process Other | ROB | end use | 1,241 | 15% | 0.03 | 10 | \$14 | 22% | 3.20 |
| DLC | Mech Pulp: Premium Process | Mfg: Paper | Process Other | Early | end use | 1,241 | 0.2% | 0.00 | 5 | \$0.2 | 31% | 1.19 |
| DLC | Mech Pulp: Premium Process | Mfg: Paper | Process Other | New | end use | 1,241 | 0.2% | 0.00 | 5 | \$0.2 | 31% | 1.19 |
| DLC | Mech Pulp: Premium Process | Mfg: Paper | Process Other | ROB | end use | 1,241 | 0.2% | 0.00 | 5 | \$0.2 | 31% | 1.19 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---------------------------------------|---------------|-----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Mech Pulp: Refiner Plate Improvement | Mfg: Paper | Process Other | Early | end use | 1,241 | 0.4% | 0.00 | 1 | \$0.2 | 31% | 0.46 |
| DLC | Mech Pulp: Refiner Plate Improvement | Mfg: Paper | Process Other | New | end use | 1,241 | 0.4% | 0.00 | 1 | \$0.2 | 31% | 0.46 |
| DLC | Mech Pulp: Refiner Plate Improvement | Mfg: Paper | Process Other | ROB | end use | 1,241 | 0.4% | 0.00 | 1 | \$0.2 | 31% | 0.46 |
| DLC | Mech Pulp: Refiner Replacement | Mfg: Paper | Process Other | Early | end use | 1,241 | 10% | 0.02 | 12 | \$73 | 31% | 0.85 |
| DLC | Mech Pulp: Refiner Replacement | Mfg: Paper | Process Other | New | end use | 1,241 | 10% | 0.02 | 12 | \$73 | 31% | 0.85 |
| DLC | Mech Pulp: Refiner Replacement | Mfg: Paper | Process Other | ROB | end use | 1,241 | 10% | 0.02 | 12 | \$73 | 31% | 0.85 |
| DLC | Paper: Efficient Pulp Screen | Mfg: Paper | Process Other | Early | end use | 1,241 | 15% | 0.03 | 10 | \$34 | 31% | 1.84 |
| DLC | Paper: Efficient Pulp Screen | Mfg: Paper | Process Other | New | end use | 1,241 | 15% | 0.03 | 10 | \$34 | 31% | 1.84 |
| DLC | Paper: Efficient Pulp Screen | Mfg: Paper | Process Other | ROB | end use | 1,241 | 15% | 0.03 | 10 | \$34 | 31% | 1.84 |
| DLC | Adjustable speed drive on compressors | Mfg: Paper | Process Refrigeration | Early | end use | 301 | 12% | 0.01 | 10 | \$5.6 | 30% | 2.03 |
| DLC | Adjustable speed drive on compressors | Mfg: Paper | Process Refrigeration | New | end use | 301 | 12% | 0.01 | 10 | \$5.6 | 30% | 2.03 |
| DLC | Adjustable speed drive on compressors | Mfg: Paper | Process Refrigeration | ROB | end use | 301 | 12% | 0.01 | 10 | \$5.6 | 30% | 2.03 |
| DLC | Cooling Tower Optimization | Mfg: Paper | Process Refrigeration | Existing | building | 301 | 20% | 0.02 | 10 | \$1.8 | 15% | 6.01 |
| DLC | Optimization of operating parameters | Mfg: Paper | Process Refrigeration | Existing | end use | 301 | 13% | 0.01 | 3 | \$2.4 | 27% | 1.03 |
| DLC | Optimization of operating parameters | Mfg: Paper | Process Refrigeration | New | end use | 301 | 13% | 0.01 | 3 | \$2.4 | 27% | 1.03 |
| DLC | Synchronous Belts | Mfg: Paper | Process Refrigeration | Early | end use | 301 | 1.2% | 0.00 | 10 | \$0.4 | 30% | 2.36 |
| DLC | Synchronous Belts | Mfg: Paper | Process Refrigeration | New | end use | 301 | 1.2% | 0.00 | 10 | \$0.4 | 30% | 2.36 |
| DLC | Synchronous Belts | Mfg: Paper | Process Refrigeration | ROB | end use | 301 | 1.2% | 0.00 | 10 | \$0.4 | 30% | 2.36 |
| DLC | VFD on Cooling Tower Fan | Mfg: Paper | Process Refrigeration | Early | motor | 301 | 21% | 0.02 | 15 | \$14 | 20% | 2.91 |
| DLC | VFD on Cooling Tower Fan | Mfg: Paper | Process Refrigeration | New | motor | 301 | 22% | 0.02 | 15 | \$14 | 20% | 2.89 |
| DLC | VFD on Cooling Tower Fan | Mfg: Paper | Process Refrigeration | ROB | motor | 301 | 22% | 0.02 | 15 | \$14 | 20% | 2.89 |
| DLC | Facility Energy Management | Mfg: Paper | Pumps | Existing | end use | 29,090 | 1.8% | 0.07 | 2 | \$11 | 69% | 1.02 |
| DLC | Facility Energy Management | Mfg: Paper | Pumps | New | end use | 29,090 | 1.8% | 0.07 | 2 | \$11 | 69% | 1.02 |
| DLC | HE Motors | Mfg: Paper | Pumps | Early | end use | 29,090 | 2.0% | 0.08 | 15 | \$173 | 73% | 1.90 |
| DLC | HE Motors | Mfg: Paper | Pumps | New | end use | 29,090 | 2.0% | 0.08 | 15 | \$173 | 73% | 1.90 |
| DLC | HE Motors | Mfg: Paper | Pumps | ROB | end use | 29,090 | 2.0% | 0.08 | 15 | \$173 | 73% | 1.90 |
| DLC | Motor rewinds | Mfg: Paper | Pumps | Existing | end use | 29,090 | 0.6% | 0.02 | 9 | \$41 | 11% | 1.30 |
| DLC | Motor rewinds | Mfg: Paper | Pumps | New | end use | 29,090 | 0.6% | 0.02 | 9 | \$41 | 11% | 1.30 |
| DLC | Pump Equipment Upgrade | Mfg: Paper | Pumps | Early | end use | 29,090 | 20% | 0.76 | 12 | \$727 | 81% | 2.84 |
| DLC | Pump Equipment Upgrade | Mfg: Paper | Pumps | New | end use | 29,090 | 20% | 0.76 | 12 | \$727 | 81% | 2.84 |
| DLC | Pump Equipment Upgrade | Mfg: Paper | Pumps | ROB | end use | 29,090 | 20% | 0.76 | 12 | \$727 | 81% | 2.84 |
| DLC | Pump System Optimization | Mfg: Paper | Pumps | Existing | end use | 29,090 | 8.7% | 0.33 | 12 | \$533 | 38% | 1.97 |
| DLC | Pump System Optimization | Mfg: Paper | Pumps | New | end use | 29,090 | 8.7% | 0.33 | 12 | \$533 | 38% | 1.97 |
| DLC | Synchronous Belts | Mfg: Paper | Pumps | Early | end use | 29,090 | 1.2% | 0.04 | 10 | \$43 | 61% | 2.32 |
| DLC | Synchronous Belts | Mfg: Paper | Pumps | New | end use | 29,090 | 1.2% | 0.04 | 10 | \$43 | 61% | 2.32 |
| DLC | Synchronous Belts | Mfg: Paper | Pumps | ROB | end use | 29,090 | 1.2% | 0.04 | 10 | \$43 | 61% | 2.32 |
| DLC | Circulating Fans | Mfg: Plastics | Fans | Early | end use | 229,097 | 5.0% | 1.36 | 10 | \$1,395 | 68% | 2.34 |
| DLC | Circulating Fans | Mfg: Plastics | Fans | New | end use | 229,097 | 5.0% | 1.36 | 10 | \$1,395 | 68% | 2.34 |
| DLC | Circulating Fans | Mfg: Plastics | Fans | ROB | end use | 229,097 | 5.0% | 1.36 | 10 | \$1,395 | 68% | 2.34 |
| DLC | Facility Energy Management | Mfg: Plastics | Fans | Existing | end use | 229,097 | 1.8% | 0.50 | 2 | \$88 | 77% | 1.00 |
| DLC | Facility Energy Management | Mfg: Plastics | Fans | New | end use | 229,097 | 1.8% | 0.50 | 2 | \$88 | 77% | 1.00 |
| DLC | HE Motors | Mfg: Plastics | Fans | Early | end use | 229,097 | 2.0% | 0.56 | 15 | \$1,364 | 77% | 1.87 |
| DLC | HE Motors | Mfg: Plastics | Fans | New | end use | 229,097 | 2.0% | 0.56 | 15 | \$1,364 | 77% | 1.87 |
| DLC | HE Motors | Mfg: Plastics | Fans | ROB | end use | 229,097 | 2.0% | 0.56 | 15 | \$1,364 | 77% | 1.87 |
| DLC | Improved Controls - Fans | Mfg: Plastics | Fans | Existing | end use | 229,097 | 7.1% | 1.94 | 10 | \$888 | 88% | 3.59 |
| DLC | Improved Controls - Fans | Mfg: Plastics | Fans | New | end use | 229,097 | 7.1% | 1.94 | 10 | \$888 | 88% | 3.59 |
| DLC | Properly Sized Fans | Mfg: Plastics | Fans | Early | end use | 229,097 | 13% | 3.59 | 10 | \$4,692 | 41% | 1.99 |
| DLC | Properly Sized Fans | Mfg: Plastics | Fans | New | end use | 229,097 | 13% | 3.59 | 10 | \$4,692 | 41% | 1.99 |
| DLC | Properly Sized Fans | Mfg: Plastics | Fans | ROB | end use | 229,097 | 13% | 3.59 | 10 | \$4,692 | 41% | 1.99 |
| DLC | Synchronous Belts | Mfg: Plastics | Fans | Early | end use | 229,097 | 1.2% | 0.32 | 10 | \$338 | 41% | 2.28 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|---------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Synchronous Belts | Mfg: Plastics | Fans | New | end use | 229,097 | 1.2% | 0.32 | 10 | \$338 | 41% | 2.28 |
| DLC | Synchronous Belts | Mfg: Plastics | Fans | ROB | end use | 229,097 | 1.2% | 0.32 | 10 | \$338 | 41% | 2.28 |
| DLC | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Plastics | HVAC | Early | unit (ton) | 136,425 | 9.2% | 3.25 | 15 | \$24,852 | 28% | 0.39 |
| DLC | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Plastics | HVAC | New | unit (ton) | 136,425 | 4.1% | 1.46 | 15 | \$6,021 | 28% | 0.70 |
| DLC | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Plastics | HVAC | ROB | unit (ton) | 136,425 | 4.1% | 1.46 | 15 | \$6,021 | 28% | 0.70 |
| DLC | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Plastics | HVAC | Early | unit (ton) | 136,425 | 12% | 4.39 | 15 | \$29,297 | 28% | 0.45 |
| DLC | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Plastics | HVAC | New | unit (ton) | 136,425 | 7.7% | 2.72 | 15 | \$12,682 | 28% | 0.63 |
| DLC | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Plastics | HVAC | ROB | unit (ton) | 136,425 | 7.7% | 2.72 | 15 | \$12,682 | 28% | 0.63 |
| DLC | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Plastics | HVAC | Early | unit (ton) | 136,425 | 15% | 5.39 | 15 | \$33,743 | 29% | 0.47 |
| DLC | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Plastics | HVAC | New | unit (ton) | 136,425 | 11% | 3.83 | 15 | \$19,342 | 29% | 0.58 |
| DLC | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Plastics | HVAC | ROB | unit (ton) | 136,425 | 11% | 3.83 | 15 | \$19,342 | 29% | 0.58 |
| DLC | >760k min 10.2 EER Air Conditioner | Mfg: Plastics | HVAC | Early | unit (ton) | 136,425 | 2.1% | 0.75 | 15 | \$43,277 | 35% | 0.05 |
| DLC | >760k min 10.2 EER Air Conditioner | Mfg: Plastics | HVAC | New | unit (ton) | 136,425 | 2.8% | 1.00 | 15 | \$3,911 | 35% | 0.74 |
| DLC | >760k min 10.2 EER Air Conditioner | Mfg: Plastics | HVAC | ROB | unit (ton) | 136,425 | 2.8% | 1.00 | 15 | \$3,911 | 35% | 0.74 |
| DLC | 135-240k min 12 EER Air Conditioner | Mfg: Plastics | HVAC | Early | unit (ton) | 136,425 | 10% | 3.70 | 15 | \$46,863 | 35% | 0.24 |
| DLC | 135-240k min 12 EER Air Conditioner | Mfg: Plastics | HVAC | New | unit (ton) | 136,425 | 5.8% | 2.04 | 15 | \$5,533 | 35% | 1.04 |
| DLC | 135-240k min 12 EER Air Conditioner | Mfg: Plastics | HVAC | ROB | unit (ton) | 136,425 | 5.8% | 2.04 | 15 | \$5,533 | 35% | 1.04 |
| DLC | 240k-760k min 11 EER Air Conditioner | Mfg: Plastics | HVAC | Early | unit (ton) | 136,425 | 5.2% | 1.84 | 15 | \$43,304 | 35% | 0.13 |
| DLC | 240k-760k min 11 EER Air Conditioner | Mfg: Plastics | HVAC | New | unit (ton) | 136,425 | 5.3% | 1.89 | 15 | \$4,639 | 35% | 1.14 |
| DLC | 240k-760k min 11 EER Air Conditioner | Mfg: Plastics | HVAC | ROB | unit (ton) | 136,425 | 5.3% | 1.89 | 15 | \$4,639 | 35% | 1.14 |
| DLC | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Plastics | HVAC | Early | unit (ton) | 136,425 | 9.7% | 3.43 | 15 | \$47,983 | 35% | 0.22 |
| DLC | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Plastics | HVAC | New | unit (ton) | 136,425 | 3.8% | 1.36 | 15 | \$6,846 | 35% | 0.58 |
| DLC | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Plastics | HVAC | ROB | unit (ton) | 136,425 | 3.8% | 1.36 | 15 | \$6,846 | 35% | 0.58 |
| DLC | Ceiling Insualtions (Going upto R 20) | Mfg: Plastics | HVAC | Existing | building | 136,425 | 5.9% | 2.03 | 15 | \$413,347 | 71% | 0.02 |
| DLC | Ceiling Insualtions (Going upto R 20) | Mfg: Plastics | HVAC | New | building | 136,425 | 3.7% | 1.27 | 15 | \$392,898 | 94% | 0.01 |
| DLC | Chiller Tuneup/Diagnostics | Mfg: Plastics | HVAC | Existing | building | 136,425 | 8.0% | 4.00 | 10 | \$348,355 | 59% | 0.02 |
| DLC | Chiller Tuneup/Diagnostics | Mfg: Plastics | HVAC | New | building | 136,425 | 8.0% | 4.01 | 10 | \$348,355 | 59% | 0.02 |
| DLC | Cooling Tower Optimization | Mfg: Plastics | HVAC | Existing | building | 136,425 | 20% | 9.77 | 10 | \$837 | 12% | 6.05 |
| DLC | Duct Insulation, Add R8 | Mfg: Plastics | HVAC | Existing | building | 136,425 | 1.5% | 0.44 | 15 | \$1,084 | 18% | 1.30 |
| DLC | Duct Insulation, Add R8 | Mfg: Plastics | HVAC | New | building | 136,425 | 1.5% | 0.44 | 15 | \$1,084 | 9% | 1.30 |
| DLC | Ductless Heat Pump | Mfg: Plastics | HVAC | Early | heat pump | 136,425 | 0.8% | 0.26 | 15 | \$10,835 | 83% | 0.08 |
| DLC | Ductless Heat Pump | Mfg: Plastics | HVAC | New | heat pump | 136,425 | 0.4% | 0.13 | 15 | \$3,147 | 83% | 0.15 |
| DLC | Ductless Heat Pump | Mfg: Plastics | HVAC | ROB | heat pump | 136,425 | 0.4% | 0.13 | 15 | \$3,147 | 83% | 0.15 |
| DLC | DX Coil Cleaning | Mfg: Plastics | HVAC | Existing | building | 136,425 | 13% | 6.26 | 1 | \$1,308 | 73% | 0.43 |
| DLC | DX Coil Cleaning | Mfg: Plastics | HVAC | New | building | 136,425 | 13% | 6.26 | 1 | \$1,308 | 73% | 0.43 |
| DLC | Efficient Unit Heating System | Mfg: Plastics | HVAC | Early | heater | 136,425 | 6.9% | 0.08 | 15 | \$7,349 | 83% | 0.68 |
| DLC | Efficient Unit Heating System | Mfg: Plastics | HVAC | New | heater | 136,425 | 4.0% | 0.04 | 15 | \$5,013 | 83% | 0.58 |
| DLC | Efficient Unit Heating System | Mfg: Plastics | HVAC | ROB | heater | 136,425 | 4.0% | 0.04 | 15 | \$5,013 | 83% | 0.58 |
| DLC | Ground Source Heat Pump (Closed Loop) | Mfg: Plastics | HVAC | Early | heat pump | 136,425 | 1.3% | 0.40 | 15 | \$22,499 | 19% | 0.06 |
| DLC | Ground Source Heat Pump (Closed Loop) | Mfg: Plastics | HVAC | New | heat pump | 136,425 | 1.0% | 0.31 | 15 | \$8,883 | 19% | 0.12 |
| DLC | Ground Source Heat Pump (Closed Loop) | Mfg: Plastics | HVAC | ROB | heat pump | 136,425 | 1.0% | 0.31 | 15 | \$8,883 | 19% | 0.12 |
| DLC | Ground Source Heat Pump (Open Loop) | Mfg: Plastics | HVAC | Early | heat pump | 136,425 | 1.3% | 0.40 | 15 | \$14,409 | 19% | 0.09 |
| DLC | Ground Source Heat Pump (Open Loop) | Mfg: Plastics | HVAC | New | heat pump | 136,425 | 1.0% | 0.31 | 15 | \$305 | 19% | 2.67 |
| DLC | Ground Source Heat Pump (Open Loop) | Mfg: Plastics | HVAC | ROB | heat pump | 136,425 | 1.0% | 0.31 | 15 | \$305 | 19% | 2.67 |
| DLC | HE Air Cooled Chiller, 100 Tons | Mfg: Plastics | HVAC | Early | unit (ton) | 136,425 | 1.5% | 0.45 | 15 | \$160,389 | 89% | 0.01 |
| DLC | HE Air Cooled Chiller, 100 Tons | Mfg: Plastics | HVAC | New | unit (ton) | 136,425 | 0.4% | 0.13 | 15 | \$23,366 | 89% | 0.02 |
| DLC | HE Air Cooled Chiller, 100 Tons | Mfg: Plastics | HVAC | ROB | unit (ton) | 136,425 | 0.4% | 0.13 | 15 | \$23,366 | 89% | 0.02 |
| DLC | HE Air Cooled Chiller, 150 Tons | Mfg: Plastics | HVAC | Early | unit (ton) | 136,425 | 1.5% | 0.45 | 15 | \$138,540 | 89% | 0.01 |
| DLC | HE Air Cooled Chiller, 150 Tons | Mfg: Plastics | HVAC | New | unit (ton) | 136,425 | 0.3% | 0.09 | 15 | \$11,475 | 89% | 0.03 |
| DLC | HE Air Cooled Chiller, 150 Tons | Mfg: Plastics | HVAC | ROB | unit (ton) | 136,425 | 0.3% | 0.09 | 15 | \$11,475 | 89% | 0.03 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|---------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Plastics | HVAC | Early | heat pump | 136,425 | 1.4% | 0.42 | 12 | \$5,873 | 81% | 0.20 |
| DLC | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Plastics | HVAC | Early | heat pump | 136,425 | 1.1% | 0.35 | 12 | \$4,291 | 81% | 0.22 |
| DLC | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Plastics | HVAC | New | heat pump | 136,425 | 1.0% | 0.31 | 12 | \$2,622 | 81% | 0.32 |
| DLC | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Plastics | HVAC | New | heat pump | 136,425 | 0.8% | 0.23 | 12 | \$917 | 81% | 0.66 |
| DLC | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Plastics | HVAC | ROB | heat pump | 136,425 | 1.0% | 0.31 | 12 | \$2,622 | 81% | 0.32 |
| DLC | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Plastics | HVAC | ROB | heat pump | 136,425 | 0.8% | 0.23 | 12 | \$917 | 81% | 0.66 |
| DLC | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Plastics | HVAC | Early | unit (ton) | 136,425 | 1.6% | 0.49 | 15 | \$12,726 | 89% | 0.13 |
| DLC | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Plastics | HVAC | New | unit (ton) | 136,425 | 0.9% | 0.28 | 15 | \$4,233 | 89% | 0.23 |
| DLC | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Plastics | HVAC | ROB | unit (ton) | 136,425 | 0.9% | 0.28 | 15 | \$4,233 | 89% | 0.23 |
| DLC | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Plastics | HVAC | Early | unit (ton) | 136,425 | 1.4% | 0.44 | 15 | \$12,429 | 89% | 0.12 |
| DLC | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Plastics | HVAC | New | unit (ton) | 136,425 | 1.0% | 0.31 | 15 | \$2,427 | 89% | 0.42 |
| DLC | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Plastics | HVAC | ROB | unit (ton) | 136,425 | 1.4% | 0.44 | 15 | \$2,230 | 89% | 0.63 |
| DLC | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Plastics | HVAC | Early | unit (ton) | 136,425 | 1.4% | 0.43 | 15 | \$14,710 | 89% | 0.10 |
| DLC | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Plastics | HVAC | New | unit (ton) | 136,425 | 0.9% | 0.28 | 15 | \$6,193 | 89% | 0.15 |
| DLC | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Plastics | HVAC | ROB | unit (ton) | 136,425 | 1.4% | 0.43 | 15 | \$5,605 | 89% | 0.26 |
| DLC | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Plastics | HVAC | Early | unit (ton) | 136,425 | 1.4% | 0.43 | 15 | \$14,170 | 89% | 0.10 |
| DLC | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Plastics | HVAC | New | unit (ton) | 136,425 | 0.9% | 0.28 | 15 | \$5,384 | 89% | 0.17 |
| DLC | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Plastics | HVAC | ROB | unit (ton) | 136,425 | 1.4% | 0.43 | 15 | \$4,873 | 89% | 0.30 |
| DLC | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Plastics | HVAC | Early | unit (ton) | 136,425 | 1.8% | 0.56 | 15 | \$15,268 | 89% | 0.12 |
| DLC | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Plastics | HVAC | New | unit (ton) | 136,425 | 0.6% | 0.17 | 15 | \$9,454 | 89% | 0.06 |
| DLC | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Plastics | HVAC | ROB | unit (ton) | 136,425 | 1.8% | 0.56 | 15 | \$7,341 | 89% | 0.26 |
| DLC | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Plastics | HVAC | Early | unit (ton) | 136,425 | 2.2% | 0.66 | 15 | \$14,044 | 89% | 0.16 |
| DLC | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Plastics | HVAC | New | unit (ton) | 136,425 | 0.8% | 0.24 | 15 | \$5,635 | 89% | 0.14 |
| DLC | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Plastics | HVAC | ROB | unit (ton) | 136,425 | 0.8% | 0.24 | 15 | \$5,635 | 89% | 0.14 |
| DLC | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Plastics | HVAC | Early | unit (ton) | 136,425 | 2.4% | 0.75 | 15 | \$11,902 | 89% | 0.21 |
| DLC | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Plastics | HVAC | New | unit (ton) | 136,425 | 0.9% | 0.28 | 15 | \$2,995 | 89% | 0.31 |
| DLC | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Plastics | HVAC | ROB | unit (ton) | 136,425 | 2.4% | 0.75 | 15 | \$2,135 | 89% | 1.08 |
| DLC | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Plastics | HVAC | Early | unit (ton) | 136,425 | 1.8% | 0.56 | 15 | \$11,783 | 89% | 0.16 |
| DLC | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Plastics | HVAC | New | unit (ton) | 136,425 | 0.7% | 0.21 | 15 | \$3,299 | 89% | 0.22 |
| DLC | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Plastics | HVAC | ROB | unit (ton) | 136,425 | 1.8% | 0.56 | 15 | \$2,614 | 89% | 0.69 |
| DLC | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Plastics | HVAC | Existing | building | 136,425 | 2.9% | 0.80 | 5 | \$1,447 | 55% | 0.55 |
| DLC | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Plastics | HVAC | New | building | 136,425 | 0.6% | 0.32 | 5 | \$868 | 51% | 0.28 |
| DLC | Improved Controls - HVAC | Mfg: Plastics | HVAC | Existing | end use | 136,425 | 21% | 4.09 | 10 | \$1,434 | 76% | 3.87 |
| DLC | Improved Controls - HVAC | Mfg: Plastics | HVAC | New | end use | 136,425 | 21% | 4.09 | 10 | \$1,434 | 76% | 3.87 |
| DLC | Outside Air Economizer | Mfg: Plastics | HVAC | Existing | building | 136,425 | 1.1% | 0.38 | 10 | \$501,252 | 82% | 0.00 |
| DLC | Outside Air Economizer | Mfg: Plastics | HVAC | New | building | 136,425 | 1.1% | 0.38 | 10 | \$501,252 | 82% | 0.00 |
| DLC | Recommissioning | Mfg: Plastics | HVAC | Existing | end use | 136,425 | 5.0% | 0.98 | 10 | \$187 | 88% | 4.78 |
| DLC | Recommissioning | Mfg: Plastics | HVAC | New | end use | 136,425 | 5.0% | 0.98 | 10 | \$187 | 88% | 4.78 |
| DLC | Room AC (with louvered sides) | Mfg: Plastics | HVAC | Early | unit (ton) | 136,425 | 7.7% | 2.37 | 9 | \$10,693 | 78% | 0.43 |
| DLC | Room AC (with louvered sides) | Mfg: Plastics | HVAC | New | unit (ton) | 136,425 | 2.6% | 0.79 | 9 | \$585 | 78% | 1.95 |
| DLC | Room AC (with louvered sides) | Mfg: Plastics | HVAC | ROB | unit (ton) | 136,425 | 2.6% | 0.79 | 9 | \$585 | 78% | 1.95 |
| DLC | Variable Refrigerant Flow Heat Pump | Mfg: Plastics | HVAC | New | measure | 136,425 | 0.1% | 0.04 | 13 | \$1,009 | 43% | 0.10 |
| DLC | Variable Refrigerant Flow Heat Pump | Mfg: Plastics | HVAC | ROB | measure | 136,425 | 0.1% | 0.04 | 13 | \$1,009 | 43% | 0.10 |
| DLC | VFD on Cooling Tower Fan | Mfg: Plastics | HVAC | Early | motor | 136,425 | 21% | 8.58 | 15 | \$6,286 | 15% | 2.92 |
| DLC | VFD on Cooling Tower Fan | Mfg: Plastics | HVAC | New | motor | 136,425 | 22% | 8.58 | 15 | \$6,406 | 15% | 2.90 |
| DLC | VFD on Cooling Tower Fan | Mfg: Plastics | HVAC | ROB | motor | 136,425 | 22% | 8.58 | 15 | \$6,406 | 15% | 2.90 |
| DLC | Wall Insualtions (Going upto R 21) | Mfg: Plastics | HVAC | Existing | building | 136,425 | 19% | 6.52 | 15 | \$97,048 | 26% | 0.21 |
| DLC | Wall Insualtions (Going upto R 21) | Mfg: Plastics | HVAC | New | building | 136,425 | 0.6% | 0.21 | 15 | \$74,441 | 94% | 0.01 |
| DLC | Water Source Heat Pump (4 ton) | Mfg: Plastics | HVAC | Early | heat pump | 136,425 | 1.5% | 0.47 | 15 | \$23,298 | 28% | 0.07 |
| DLC | Water Source Heat Pump (4 ton) | Mfg: Plastics | HVAC | New | heat pump | 136,425 | 1.1% | 0.35 | 15 | \$11,355 | 28% | 0.10 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---------------------------------------|---------------|----------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Water Source Heat Pump (4 ton) | Mfg: Plastics | HVAC | ROB | heat pump | 136,425 | 1.1% | 0.35 | 15 | \$11,355 | 28% | 0.10 |
| DLC | Efficient Metal Halide (High Bay) | Mfg: Plastics | Lighting | Early | end use | 114,919 | 42% | 0.00 | 9 | \$17,958 | 53% | 0.73 |
| DLC | Efficient Metal Halide (High Bay) | Mfg: Plastics | Lighting | New | end use | 114,919 | 41% | 0.00 | 13 | \$479,652 | 61% | 0.05 |
| DLC | Efficient Metal Halide (High Bay) | Mfg: Plastics | Lighting | ROB | end use | 114,919 | 41% | 0.00 | 13 | \$366,576 | 61% | 0.06 |
| DLC | Induction (High Bay) | Mfg: Plastics | Lighting | Early | end use | 114,919 | 94% | 0.00 | 13 | \$53,431 | 95% | 0.88 |
| DLC | Induction (High Bay) | Mfg: Plastics | Lighting | New | end use | 114,919 | 94% | 0.00 | 13 | \$50,025 | 95% | 0.93 |
| DLC | Induction (High Bay) | Mfg: Plastics | Lighting | ROB | end use | 114,919 | 94% | 0.00 | 13 | \$38,021 | 95% | 1.18 |
| DLC | LED (High Bay) | Mfg: Plastics | Lighting | Early | end use | 114,919 | 69% | 0.00 | 14 | \$62,897 | 95% | 0.61 |
| DLC | LED (High Bay) | Mfg: Plastics | Lighting | New | end use | 114,919 | 55% | 0.00 | 14 | \$69,813 | 95% | 0.45 |
| DLC | LED (High Bay) | Mfg: Plastics | Lighting | ROB | end use | 114,919 | 59% | 0.00 | 14 | \$45,999 | 95% | 0.71 |
| DLC | Lighting Controls | Mfg: Plastics | Lighting | Existing | end use | 114,919 | 20% | 0.00 | 6 | \$430,819 | 16% | 0.01 |
| DLC | Lighting Controls | Mfg: Plastics | Lighting | New | end use | 114,919 | 12% | 0.00 | 10 | \$573,131 | 11% | 0.01 |
| DLC | Linear Fluorescent (High Bay) | Mfg: Plastics | Lighting | Early | end use | 114,919 | 17% | 0.00 | 14 | \$13,149 | 98% | 0.71 |
| DLC | Linear Fluorescent (High Bay) | Mfg: Plastics | Lighting | New | end use | 114,919 | 13% | 0.00 | 14 | \$4,170 | 91% | 1.50 |
| DLC | Linear Fluorescent (High Bay) | Mfg: Plastics | Lighting | ROB | end use | 114,919 | 13% | 0.00 | 14 | \$2,670 | 91% | 2.16 |
| DLC | Metal Halide (High Bay) | Mfg: Plastics | Lighting | Early | end use | 114,919 | 62% | 0.00 | 13 | \$79,000 | 38% | 0.42 |
| DLC | Metal Halide (High Bay) | Mfg: Plastics | Lighting | New | end use | 114,919 | 73% | 0.00 | 13 | \$18,888 | 38% | 1.67 |
| DLC | Metal Halide (High Bay) | Mfg: Plastics | Lighting | ROB | end use | 114,919 | 73% | 0.00 | 13 | \$14,355 | 38% | 2.05 |
| DLC | Screw Base CFL | Mfg: Plastics | Lighting | Early | end use | 114,919 | 80% | 0.00 | 7 | \$31,221 | 17% | 0.54 |
| DLC | Screw Base CFL | Mfg: Plastics | Lighting | New | end use | 114,919 | 73% | 0.00 | 9 | \$25,515 | 18% | 0.85 |
| DLC | Screw Base CFL | Mfg: Plastics | Lighting | ROB | end use | 114,919 | 73% | 0.00 | 9 | \$21,356 | 17% | 0.98 |
| DLC | Screw Base LED | Mfg: Plastics | Lighting | Early | end use | 114,919 | 76% | 0.00 | 9 | \$19,161 | 21% | 1.17 |
| DLC | Screw Base LED | Mfg: Plastics | Lighting | New | end use | 114,919 | 77% | 0.00 | 9 | \$10,674 | 20% | 1.79 |
| DLC | Screw Base LED | Mfg: Plastics | Lighting | ROB | end use | 114,919 | 77% | 0.00 | 9 | \$8,473 | 21% | 2.05 |
| DLC | T8 High Performance Linear Florescent | Mfg: Plastics | Lighting | Early | end use | 114,919 | 36% | 0.00 | 14 | \$10,997 | 71% | 1.59 |
| DLC | T8 High Performance Linear Florescent | Mfg: Plastics | Lighting | New | end use | 114,919 | 26% | 0.00 | 14 | \$3,934 | 76% | 2.67 |
| DLC | T8 High Performance Linear Florescent | Mfg: Plastics | Lighting | ROB | end use | 114,919 | 26% | 0.00 | 14 | \$2,990 | 76% | 3.16 |
| DLC | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Plastics | Motors | Early | end use | 72,329 | 0.9% | 0.09 | 15 | \$1,105 | 81% | 0.40 |
| DLC | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Plastics | Motors | New | end use | 72,329 | 0.9% | 0.09 | 15 | \$1,105 | 81% | 0.40 |
| DLC | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Plastics | Motors | ROB | end use | 72,329 | 0.9% | 0.09 | 15 | \$1,105 | 81% | 0.41 |
| DLC | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Plastics | Motors | Early | end use | 72,329 | 0.7% | 0.08 | 15 | \$671 | 73% | 0.53 |
| DLC | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Plastics | Motors | New | end use | 72,329 | 0.8% | 0.08 | 15 | \$671 | 73% | 0.54 |
| DLC | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Plastics | Motors | ROB | end use | 72,329 | 0.8% | 0.08 | 15 | \$671 | 73% | 0.53 |
| DLC | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Plastics | Motors | Early | end use | 72,329 | 0.5% | 0.05 | 15 | \$257 | 81% | 0.82 |
| DLC | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Plastics | Motors | New | end use | 72,329 | 0.5% | 0.05 | 15 | \$257 | 81% | 0.81 |
| DLC | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Plastics | Motors | ROB | end use | 72,329 | 0.5% | 0.05 | 15 | \$257 | 81% | 0.82 |
| DLC | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Plastics | Motors | Early | end use | 72,329 | 0.4% | 0.04 | 15 | \$85 | 73% | 1.95 |
| DLC | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Plastics | Motors | New | end use | 72,329 | 0.4% | 0.04 | 15 | \$85 | 73% | 1.93 |
| DLC | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Plastics | Motors | ROB | end use | 72,329 | 0.4% | 0.04 | 15 | \$85 | 73% | 1.89 |
| DLC | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Plastics | Motors | Early | end use | 72,329 | 0.9% | 0.09 | 15 | \$127 | 47% | 2.69 |
| DLC | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Plastics | Motors | New | end use | 72,329 | 0.9% | 0.09 | 15 | \$127 | 47% | 2.67 |
| DLC | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Plastics | Motors | ROB | end use | 72,329 | 0.9% | 0.09 | 15 | \$127 | 47% | 2.66 |
| DLC | Facility Energy Management | Mfg: Plastics | Motors | Existing | end use | 72,329 | 1.8% | 0.19 | 2 | \$28 | 77% | 1.02 |
| DLC | Facility Energy Management | Mfg: Plastics | Motors | New | end use | 72,329 | 1.8% | 0.19 | 2 | \$28 | 77% | 1.02 |
| DLC | HE Motors | Mfg: Plastics | Motors | Early | end use | 72,329 | 2.0% | 0.21 | 15 | \$431 | 38% | 1.93 |
| DLC | HE Motors | Mfg: Plastics | Motors | New | end use | 72,329 | 2.0% | 0.21 | 15 | \$431 | 38% | 1.93 |
| DLC | HE Motors | Mfg: Plastics | Motors | ROB | end use | 72,329 | 2.0% | 0.21 | 15 | \$431 | 38% | 1.93 |
| DLC | High-Efficiency Ventilation System | Mfg: Plastics | Motors | Early | end use | 72,329 | 5.7% | 0.59 | 10 | \$4,520 | 73% | 0.40 |
| DLC | High-Efficiency Ventilation System | Mfg: Plastics | Motors | New | end use | 72,329 | 5.7% | 0.59 | 10 | \$4,520 | 73% | 0.40 |
| DLC | High-Efficiency Ventilation System | Mfg: Plastics | Motors | ROB | end use | 72,329 | 5.7% | 0.59 | 10 | \$4,520 | 73% | 0.40 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|---------------|------------------------|----------|---------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Improved Controls - Motors | Mfg: Plastics | Motors | Existing | end use | 72,329 | 4.0% | 0.41 | 10 | \$314 | 73% | 2.57 |
| DLC | Improved Controls - Motors | Mfg: Plastics | Motors | New | end use | 72,329 | 4.0% | 0.41 | 10 | \$314 | 73% | 2.57 |
| DLC | Motor Management Plan | Mfg: Plastics | Motors | Existing | end use | 72,329 | 2.9% | 0.30 | 10 | \$147 | 73% | 3.29 |
| DLC | Motor Management Plan | Mfg: Plastics | Motors | New | end use | 72,329 | 2.9% | 0.30 | 10 | \$147 | 73% | 3.29 |
| DLC | Motors Other | Mfg: Plastics | Motors | Existing | end use | 72,329 | 1.1% | 0.11 | 15 | \$14 | 83% | 7.86 |
| DLC | Motors Other | Mfg: Plastics | Motors | New | end use | 72,329 | 1.1% | 0.11 | 15 | \$14 | 83% | 7.86 |
| DLC | Motors: Rewind 101-200 HP | Mfg: Plastics | Motors | Existing | end use | 72,329 | 0.6% | 0.06 | 10 | \$91 | 27% | 1.55 |
| DLC | Motors: Rewind 101-200 HP | Mfg: Plastics | Motors | New | end use | 72,329 | 0.6% | 0.06 | 10 | \$91 | 27% | 1.55 |
| DLC | Motors: Rewind 201-500 HP | Mfg: Plastics | Motors | Existing | end use | 72,329 | 0.5% | 0.06 | 8 | \$57 | 27% | 1.64 |
| DLC | Motors: Rewind 201-500 HP | Mfg: Plastics | Motors | New | end use | 72,329 | 0.5% | 0.06 | 8 | \$57 | 27% | 1.64 |
| DLC | Motors: Rewind 20-50 HP | Mfg: Plastics | Motors | Existing | end use | 72,329 | 1.0% | 0.11 | 11 | \$268 | 42% | 1.22 |
| DLC | Motors: Rewind 20-50 HP | Mfg: Plastics | Motors | New | end use | 72,329 | 1.0% | 0.11 | 11 | \$268 | 42% | 1.22 |
| DLC | Motors: Rewind 500+ HP | Mfg: Plastics | Motors | Existing | end use | 72,329 | 0.6% | 0.06 | 8 | \$41 | 11% | 2.06 |
| DLC | Motors: Rewind 500+ HP | Mfg: Plastics | Motors | New | end use | 72,329 | 0.6% | 0.06 | 8 | \$41 | 11% | 2.06 |
| DLC | Motors: Rewind 51-100 HP | Mfg: Plastics | Motors | Existing | end use | 72,329 | 0.6% | 0.06 | 9 | \$133 | 42% | 1.09 |
| DLC | Motors: Rewind 51-100 HP | Mfg: Plastics | Motors | New | end use | 72,329 | 0.6% | 0.06 | 9 | \$133 | 42% | 1.09 |
| DLC | Switch from Belt drive to Direct Drive | Mfg: Plastics | Motors | Early | end use | 72,329 | 7.5% | 0.78 | 12 | \$1,161 | 30% | 1.99 |
| DLC | Switch from Belt drive to Direct Drive | Mfg: Plastics | Motors | New | end use | 72,329 | 7.5% | 0.78 | 12 | \$1,161 | 30% | 1.98 |
| DLC | Switch from Belt drive to Direct Drive | Mfg: Plastics | Motors | ROB | end use | 72,329 | 7.5% | 0.78 | 12 | \$1,161 | 30% | 1.98 |
| DLC | Synchronous Belts | Mfg: Plastics | Motors | Early | end use | 72,329 | 1.2% | 0.12 | 10 | \$107 | 30% | 2.36 |
| DLC | Synchronous Belts | Mfg: Plastics | Motors | New | end use | 72,329 | 1.2% | 0.12 | 10 | \$107 | 30% | 2.36 |
| DLC | Synchronous Belts | Mfg: Plastics | Motors | ROB | end use | 72,329 | 1.2% | 0.12 | 10 | \$107 | 30% | 2.36 |
| DLC | Bldg Improvements | Mfg: Plastics | Other | Existing | end use | 35,487 | 16% | 0.68 | 15 | \$774 | 72% | 3.29 |
| DLC | Bldg Improvements | Mfg: Plastics | Other | New | end use | 35,487 | 16% | 0.68 | 15 | \$774 | 72% | 3.29 |
| DLC | Energy Project Management | Mfg: Plastics | Other | Existing | end use | 35,487 | 29% | 1.23 | 11 | \$1,267 | 63% | 2.57 |
| DLC | Energy Project Management | Mfg: Plastics | Other | New | end use | 35,487 | 29% | 1.23 | 11 | \$1,267 | 63% | 2.57 |
| DLC | Facility Energy Management | Mfg: Plastics | Other | Existing | end use | 35,487 | 1.8% | 0.08 | 2 | \$14 | 76% | 0.99 |
| DLC | Facility Energy Management | Mfg: Plastics | Other | New | end use | 35,487 | 1.8% | 0.08 | 2 | \$14 | 76% | 0.99 |
| DLC | Integrated Plant Energy Management | Mfg: Plastics | Other | Existing | end use | 35,487 | 50% | 2.11 | 11 | \$3,498 | 48% | 1.86 |
| DLC | Integrated Plant Energy Management | Mfg: Plastics | Other | New | end use | 35,487 | 50% | 2.11 | 11 | \$3,498 | 48% | 1.86 |
| DLC | Plant Energy Management | Mfg: Plastics | Other | Existing | end use | 35,487 | 12% | 0.51 | 10 | \$89 | 55% | 4.91 |
| DLC | Plant Energy Management | Mfg: Plastics | Other | New | end use | 35,487 | 12% | 0.51 | 10 | \$89 | 55% | 4.91 |
| DLC | Transformers | Mfg: Plastics | Other | Early | end use | 35,487 | 1.6% | 0.07 | 15 | \$113 | 34% | 2.50 |
| DLC | Transformers | Mfg: Plastics | Other | New | end use | 35,487 | 1.6% | 0.07 | 15 | \$113 | 34% | 2.51 |
| DLC | Transformers | Mfg: Plastics | Other | ROB | end use | 35,487 | 1.6% | 0.07 | 15 | \$113 | 34% | 2.50 |
| DLC | Air Compressor Demand Reduction | Mfg: Plastics | Process Air Compressor | Existing | end use | 2,382 | 26% | 0.08 | 10 | \$36 | 40% | 3.54 |
| DLC | Air Compressor Demand Reduction | Mfg: Plastics | Process Air Compressor | New | end use | 2,382 | 26% | 0.08 | 10 | \$36 | 40% | 3.54 |
| DLC | Facility Energy Management | Mfg: Plastics | Process Air Compressor | Existing | end use | 2,382 | 1.8% | 0.01 | 2 | \$0.9 | 50% | 1.00 |
| DLC | Facility Energy Management | Mfg: Plastics | Process Air Compressor | New | end use | 2,382 | 1.8% | 0.01 | 2 | \$0.9 | 50% | 1.00 |
| DLC | HE Compressor motors | Mfg: Plastics | Process Air Compressor | Early | end use | 2,382 | 1.1% | 0.00 | 15 | \$9.0 | 56% | 1.66 |
| DLC | HE Compressor motors | Mfg: Plastics | Process Air Compressor | New | end use | 2,382 | 1.1% | 0.00 | 15 | \$9.0 | 56% | 1.66 |
| DLC | HE Compressor motors | Mfg: Plastics | Process Air Compressor | ROB | end use | 2,382 | 1.1% | 0.00 | 15 | \$9.0 | 56% | 1.67 |
| DLC | Improved Controls - Air Compressor | Mfg: Plastics | Process Air Compressor | Existing | end use | 2,382 | 41% | 0.13 | 10 | \$43 | 19% | 3.98 |
| DLC | Improved Controls - Air Compressor | Mfg: Plastics | Process Air Compressor | New | end use | 2,382 | 41% | 0.13 | 10 | \$43 | 19% | 3.98 |
| DLC | Low Pressure-drop Filters | Mfg: Plastics | Process Air Compressor | Existing | end use | 2,382 | 1.8% | 0.01 | 10 | \$27 | 46% | 0.66 |
| DLC | Low Pressure-drop Filters | Mfg: Plastics | Process Air Compressor | New | end use | 2,382 | 1.8% | 0.01 | 10 | \$27 | 46% | 0.66 |
| DLC | Outside Air Intake | Mfg: Plastics | Process Air Compressor | Existing | end use | 2,382 | 1.4% | 0.00 | 10 | \$16 | 37% | 0.86 |
| DLC | Outside Air Intake | Mfg: Plastics | Process Air Compressor | New | end use | 2,382 | 1.4% | 0.00 | 10 | \$16 | 37% | 0.86 |
| DLC | Receiver Capacity Addition | Mfg: Plastics | Process Air Compressor | Existing | end use | 2,382 | 5.9% | 0.02 | 10 | \$44 | 28% | 1.19 |
| DLC | Receiver Capacity Addition | Mfg: Plastics | Process Air Compressor | New | end use | 2,382 | 5.9% | 0.02 | 10 | \$44 | 28% | 1.19 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---------------------------------------|---------------|------------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Refrigerated Cycling Dryers | Mfg: Plastics | Process Air Compressor | Early | end use | 2,382 | 1.7% | 0.01 | 10 | \$5.5 | 16% | 2.19 |
| DLC | Refrigerated Cycling Dryers | Mfg: Plastics | Process Air Compressor | New | end use | 2,382 | 1.7% | 0.01 | 10 | \$5.5 | 16% | 2.19 |
| DLC | Refrigerated Cycling Dryers | Mfg: Plastics | Process Air Compressor | ROB | end use | 2,382 | 1.7% | 0.01 | 10 | \$5.5 | 16% | 2.19 |
| DLC | VFD Controlled Compressor | Mfg: Plastics | Process Air Compressor | Early | end use | 2,382 | 24% | 0.07 | 10 | \$234 | 22% | 0.94 |
| DLC | VFD Controlled Compressor | Mfg: Plastics | Process Air Compressor | New | end use | 2,382 | 24% | 0.07 | 10 | \$234 | 22% | 0.94 |
| DLC | VFD Controlled Compressor | Mfg: Plastics | Process Air Compressor | ROB | end use | 2,382 | 24% | 0.07 | 10 | \$234 | 22% | 0.94 |
| DLC | Zero Loss Condensate Drain | Mfg: Plastics | Process Air Compressor | Early | end use | 2,382 | 1.8% | 0.01 | 10 | \$14 | 28% | 1.19 |
| DLC | Zero Loss Condensate Drain | Mfg: Plastics | Process Air Compressor | New | end use | 2,382 | 1.9% | 0.01 | 10 | \$14 | 28% | 1.20 |
| DLC | Zero Loss Condensate Drain | Mfg: Plastics | Process Air Compressor | ROB | end use | 2,382 | 1.8% | 0.01 | 10 | \$14 | 28% | 1.19 |
| DLC | Clean Room: Change Filter Strategy | Mfg: Plastics | Process Cooling | Existing | end use | 92,466 | 40% | 7.71 | 1 | \$240 | 17% | 0.70 |
| DLC | Clean Room: Change Filter Strategy | Mfg: Plastics | Process Cooling | New | end use | 92,466 | 40% | 7.71 | 1 | \$240 | 17% | 0.70 |
| DLC | Clean Room: Chiller Optimize | Mfg: Plastics | Process Cooling | Existing | end use | 92,466 | 15% | 2.86 | 10 | \$1,116 | 27% | 3.36 |
| DLC | Clean Room: Chiller Optimize | Mfg: Plastics | Process Cooling | New | end use | 92,466 | 15% | 2.86 | 10 | \$1,116 | 27% | 3.36 |
| DLC | Clean Room: Clean Room HVAC | Mfg: Plastics | Process Cooling | Existing | end use | 92,466 | 9.0% | 1.73 | 15 | \$1,347 | 40% | 3.27 |
| DLC | Clean Room: Clean Room HVAC | Mfg: Plastics | Process Cooling | New | end use | 92,466 | 9.0% | 1.73 | 15 | \$1,347 | 40% | 3.27 |
| DLC | Cooling Tower Optimization | Mfg: Plastics | Process Cooling | Existing | building | 92,466 | 20% | 6.62 | 10 | \$567 | 15% | 6.01 |
| DLC | Equipment: Chillers | Mfg: Plastics | Process Cooling | Early | end use | 92,466 | 18% | 3.45 | 15 | \$4,340 | 50% | 2.28 |
| DLC | Equipment: Chillers | Mfg: Plastics | Process Cooling | New | end use | 92,466 | 18% | 3.45 | 15 | \$4,340 | 50% | 2.28 |
| DLC | Equipment: Chillers | Mfg: Plastics | Process Cooling | ROB | end use | 92,466 | 18% | 3.45 | 15 | \$4,340 | 50% | 2.28 |
| DLC | Facility Energy Management | Mfg: Plastics | Process Cooling | Existing | end use | 92,466 | 1.8% | 0.35 | 2 | \$36 | 63% | 1.14 |
| DLC | Facility Energy Management | Mfg: Plastics | Process Cooling | New | end use | 92,466 | 1.8% | 0.35 | 2 | \$36 | 63% | 1.14 |
| DLC | Improved Controls - Process Cooling | Mfg: Plastics | Process Cooling | Existing | end use | 92,466 | 6.0% | 1.16 | 10 | \$4,882 | 60% | 0.54 |
| DLC | Improved Controls - Process Cooling | Mfg: Plastics | Process Cooling | New | end use | 92,466 | 6.0% | 1.16 | 10 | \$4,882 | 60% | 0.54 |
| DLC | VFD on Cooling Tower Fan | Mfg: Plastics | Process Cooling | Early | motor | 92,466 | 21% | 5.82 | 15 | \$4,260 | 20% | 2.91 |
| DLC | VFD on Cooling Tower Fan | Mfg: Plastics | Process Cooling | New | motor | 92,466 | 22% | 5.82 | 15 | \$4,342 | 20% | 2.89 |
| DLC | VFD on Cooling Tower Fan | Mfg: Plastics | Process Cooling | ROB | motor | 92,466 | 22% | 5.82 | 15 | \$4,342 | 20% | 2.89 |
| DLC | Improved Controls - Process Heating | Mfg: Plastics | Process Heating | Existing | end use | 211,691 | 17% | 4.98 | 10 | \$2,432 | 77% | 3.32 |
| DLC | Improved Controls - Process Heating | Mfg: Plastics | Process Heating | New | end use | 211,691 | 17% | 4.98 | 10 | \$2,432 | 77% | 3.32 |
| DLC | Process Heat O&M | Mfg: Plastics | Process Heating | Existing | end use | 211,691 | 16% | 4.70 | 2 | \$1,470 | 77% | 0.80 |
| DLC | Process Heat O&M | Mfg: Plastics | Process Heating | New | end use | 211,691 | 16% | 4.70 | 2 | \$1,470 | 77% | 0.80 |
| DLC | Facility Energy Management | Mfg: Plastics | Process Other | Existing | end use | 139,488 | 1.8% | 0.36 | 2 | \$54 | 73% | 1.02 |
| DLC | Facility Energy Management | Mfg: Plastics | Process Other | New | end use | 139,488 | 1.8% | 0.36 | 2 | \$54 | 73% | 1.02 |
| DLC | Adjustable speed drive on compressors | Mfg: Plastics | Process Refrigeration | Early | end use | 47,499 | 12% | 0.81 | 10 | \$879 | 30% | 2.03 |
| DLC | Adjustable speed drive on compressors | Mfg: Plastics | Process Refrigeration | New | end use | 47,499 | 12% | 0.81 | 10 | \$879 | 30% | 2.03 |
| DLC | Adjustable speed drive on compressors | Mfg: Plastics | Process Refrigeration | ROB | end use | 47,499 | 12% | 0.81 | 10 | \$879 | 30% | 2.03 |
| DLC | Cooling Tower Optimization | Mfg: Plastics | Process Refrigeration | Existing | building | 47,499 | 20% | 3.40 | 10 | \$291 | 15% | 6.01 |
| DLC | Optimization of operating parameters | Mfg: Plastics | Process Refrigeration | Existing | end use | 47,499 | 13% | 0.91 | 3 | \$384 | 27% | 1.03 |
| DLC | Optimization of operating parameters | Mfg: Plastics | Process Refrigeration | New | end use | 47,499 | 13% | 0.91 | 3 | \$384 | 27% | 1.03 |
| DLC | Synchronous Belts | Mfg: Plastics | Process Refrigeration | Early | end use | 47,499 | 1.2% | 0.08 | 10 | \$70 | 30% | 2.36 |
| DLC | Synchronous Belts | Mfg: Plastics | Process Refrigeration | New | end use | 47,499 | 1.2% | 0.08 | 10 | \$70 | 30% | 2.36 |
| DLC | Synchronous Belts | Mfg: Plastics | Process Refrigeration | ROB | end use | 47,499 | 1.2% | 0.08 | 10 | \$70 | 30% | 2.36 |
| DLC | VFD on Cooling Tower Fan | Mfg: Plastics | Process Refrigeration | Early | motor | 47,499 | 21% | 2.99 | 15 | \$2,188 | 20% | 2.91 |
| DLC | VFD on Cooling Tower Fan | Mfg: Plastics | Process Refrigeration | New | motor | 47,499 | 22% | 2.99 | 15 | \$2,230 | 20% | 2.89 |
| DLC | VFD on Cooling Tower Fan | Mfg: Plastics | Process Refrigeration | ROB | motor | 47,499 | 22% | 2.99 | 15 | \$2,230 | 20% | 2.89 |
| DLC | Facility Energy Management | Mfg: Plastics | Pumps | Existing | end use | 405,446 | 1.8% | 0.97 | 2 | \$156 | 65% | 1.02 |
| DLC | Facility Energy Management | Mfg: Plastics | Pumps | New | end use | 405,446 | 1.8% | 0.97 | 2 | \$156 | 65% | 1.02 |
| DLC | HE Motors | Mfg: Plastics | Pumps | Early | end use | 405,446 | 2.0% | 1.08 | 15 | \$2,414 | 69% | 1.90 |
| DLC | HE Motors | Mfg: Plastics | Pumps | New | end use | 405,446 | 2.0% | 1.08 | 15 | \$2,414 | 69% | 1.90 |
| DLC | HE Motors | Mfg: Plastics | Pumps | ROB | end use | 405,446 | 2.0% | 1.08 | 15 | \$2,414 | 69% | 1.90 |
| DLC | Motor rewinds | Mfg: Plastics | Pumps | Existing | end use | 405,446 | 0.6% | 0.31 | 9 | \$577 | 11% | 1.30 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|---------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Motor rewinds | Mfg: Plastics | Pumps | New | end use | 405,446 | 0.6% | 0.31 | 9 | \$577 | 11% | 1.30 |
| DLC | Pump Equipment Upgrade | Mfg: Plastics | Pumps | Early | end use | 405,446 | 20% | 10.55 | 12 | \$10,136 | 77% | 2.84 |
| DLC | Pump Equipment Upgrade | Mfg: Plastics | Pumps | New | end use | 405,446 | 20% | 10.55 | 12 | \$10,136 | 77% | 2.84 |
| DLC | Pump Equipment Upgrade | Mfg: Plastics | Pumps | ROB | end use | 405,446 | 20% | 10.55 | 12 | \$10,136 | 77% | 2.84 |
| DLC | Pump System Optimization | Mfg: Plastics | Pumps | Existing | end use | 405,446 | 8.7% | 4.59 | 12 | \$7,424 | 36% | 1.97 |
| DLC | Pump System Optimization | Mfg: Plastics | Pumps | New | end use | 405,446 | 8.7% | 4.59 | 12 | \$7,424 | 36% | 1.97 |
| DLC | Synchronous Belts | Mfg: Plastics | Pumps | Early | end use | 405,446 | 1.2% | 0.61 | 10 | \$597 | 57% | 2.32 |
| DLC | Synchronous Belts | Mfg: Plastics | Pumps | New | end use | 405,446 | 1.2% | 0.61 | 10 | \$597 | 57% | 2.32 |
| DLC | Synchronous Belts | Mfg: Plastics | Pumps | ROB | end use | 405,446 | 1.2% | 0.61 | 10 | \$597 | 57% | 2.32 |
| DLC | <65k BTU/hr 14 SEER Air Conditioner | Mining | HVAC | Early | unit (ton) | 31,151 | 9.2% | 0.74 | 15 | \$5,674 | 28% | 0.39 |
| DLC | <65k BTU/hr 14 SEER Air Conditioner | Mining | HVAC | New | unit (ton) | 31,151 | 4.1% | 0.33 | 15 | \$1,375 | 28% | 0.70 |
| DLC | <65k BTU/hr 14 SEER Air Conditioner | Mining | HVAC | ROB | unit (ton) | 31,151 | 4.1% | 0.33 | 15 | \$1,375 | 28% | 0.70 |
| DLC | <65k BTU/hr 15 SEER Air Conditioner | Mining | HVAC | Early | unit (ton) | 31,151 | 12% | 1.00 | 15 | \$6,690 | 28% | 0.45 |
| DLC | <65k BTU/hr 15 SEER Air Conditioner | Mining | HVAC | New | unit (ton) | 31,151 | 7.7% | 0.62 | 15 | \$2,896 | 28% | 0.63 |
| DLC | <65k BTU/hr 15 SEER Air Conditioner | Mining | HVAC | ROB | unit (ton) | 31,151 | 7.7% | 0.62 | 15 | \$2,896 | 28% | 0.63 |
| DLC | <65k BTU/hr 16 SEER Air Conditioner | Mining | HVAC | Early | unit (ton) | 31,151 | 15% | 1.23 | 15 | \$7,705 | 29% | 0.47 |
| DLC | <65k BTU/hr 16 SEER Air Conditioner | Mining | HVAC | New | unit (ton) | 31,151 | 11% | 0.87 | 15 | \$4,416 | 29% | 0.58 |
| DLC | <65k BTU/hr 16 SEER Air Conditioner | Mining | HVAC | ROB | unit (ton) | 31,151 | 11% | 0.87 | 15 | \$4,416 | 29% | 0.58 |
| DLC | >760k min 10.2 EER Air Conditioner | Mining | HVAC | Early | unit (ton) | 31,151 | 2.1% | 0.17 | 15 | \$9,882 | 35% | 0.05 |
| DLC | >760k min 10.2 EER Air Conditioner | Mining | HVAC | New | unit (ton) | 31,151 | 2.8% | 0.23 | 15 | \$893 | 35% | 0.74 |
| DLC | >760k min 10.2 EER Air Conditioner | Mining | HVAC | ROB | unit (ton) | 31,151 | 2.8% | 0.23 | 15 | \$893 | 35% | 0.74 |
| DLC | 135-240k min 12 EER Air Conditioner | Mining | HVAC | Early | unit (ton) | 31,151 | 10% | 0.84 | 15 | \$10,700 | 35% | 0.24 |
| DLC | 135-240k min 12 EER Air Conditioner | Mining | HVAC | New | unit (ton) | 31,151 | 5.8% | 0.47 | 15 | \$1,263 | 35% | 1.04 |
| DLC | 135-240k min 12 EER Air Conditioner | Mining | HVAC | ROB | unit (ton) | 31,151 | 5.8% | 0.47 | 15 | \$1,263 | 35% | 1.04 |
| DLC | 240k-760k min 11 EER Air Conditioner | Mining | HVAC | Early | unit (ton) | 31,151 | 5.2% | 0.42 | 15 | \$9,888 | 35% | 0.13 |
| DLC | 240k-760k min 11 EER Air Conditioner | Mining | HVAC | New | unit (ton) | 31,151 | 5.3% | 0.43 | 15 | \$1,059 | 35% | 1.14 |
| DLC | 240k-760k min 11 EER Air Conditioner | Mining | HVAC | ROB | unit (ton) | 31,151 | 5.3% | 0.43 | 15 | \$1,059 | 35% | 1.14 |
| DLC | 65k-135k BTU/hr 12 EER Air Conditioner | Mining | HVAC | Early | unit (ton) | 31,151 | 9.7% | 0.78 | 15 | \$10,956 | 35% | 0.22 |
| DLC | 65k-135k BTU/hr 12 EER Air Conditioner | Mining | HVAC | New | unit (ton) | 31,151 | 3.8% | 0.31 | 15 | \$1,563 | 35% | 0.58 |
| DLC | 65k-135k BTU/hr 12 EER Air Conditioner | Mining | HVAC | ROB | unit (ton) | 31,151 | 3.8% | 0.31 | 15 | \$1,563 | 35% | 0.58 |
| DLC | Ceiling Insualtions (Going upto R 20) | Mining | HVAC | Existing | building | 31,151 | 5.9% | 0.46 | 15 | \$94,381 | 71% | 0.02 |
| DLC | Ceiling Insualtions (Going upto R 20) | Mining | HVAC | New | building | 31,151 | 3.7% | 0.29 | 15 | \$89,712 | 94% | 0.01 |
| DLC | Chiller Tuneup/Diagnostics | Mining | HVAC | Existing | building | 31,151 | 8.0% | 0.91 | 10 | \$79,541 | 59% | 0.02 |
| DLC | Chiller Tuneup/Diagnostics | Mining | HVAC | New | building | 31,151 | 8.0% | 0.92 | 10 | \$79,541 | 59% | 0.02 |
| DLC | Cooling Tower Optimization | Mining | HVAC | Existing | building | 31,151 | 20% | 2.23 | 10 | \$191 | 12% | 6.05 |
| DLC | Duct Insulation, Add R8 | Mining | HVAC | Existing | building | 31,151 | 1.5% | 0.10 | 15 | \$247 | 18% | 1.30 |
| DLC | Duct Insulation, Add R8 | Mining | HVAC | New | building | 31,151 | 1.5% | 0.10 | 15 | \$247 | 9% | 1.30 |
| DLC | Ductless Heat Pump | Mining | HVAC | Early | heat pump | 31,151 | 0.8% | 0.06 | 15 | \$2,474 | 83% | 0.08 |
| DLC | Ductless Heat Pump | Mining | HVAC | New | heat pump | 31,151 | 0.4% | 0.03 | 15 | \$718 | 83% | 0.15 |
| DLC | Ductless Heat Pump | Mining | HVAC | ROB | heat pump | 31,151 | 0.4% | 0.03 | 15 | \$718 | 83% | 0.15 |
| DLC | DX Coil Cleaning | Mining | HVAC | Existing | building | 31,151 | 13% | 1.43 | 1 | \$299 | 73% | 0.43 |
| DLC | DX Coil Cleaning | Mining | HVAC | New | building | 31,151 | 13% | 1.43 | 1 | \$299 | 73% | 0.43 |
| DLC | Efficient Unit Heating System | Mining | HVAC | Early | heater | 31,151 | 6.9% | 0.02 | 15 | \$1,678 | 83% | 0.68 |
| DLC | Efficient Unit Heating System | Mining | HVAC | New | heater | 31,151 | 4.0% | 0.01 | 15 | \$1,145 | 83% | 0.58 |
| DLC | Efficient Unit Heating System | Mining | HVAC | ROB | heater | 31,151 | 4.0% | 0.01 | 15 | \$1,145 | 83% | 0.58 |
| DLC | Ground Source Heat Pump (Closed Loop) | Mining | HVAC | Early | heat pump | 31,151 | 1.3% | 0.09 | 15 | \$5,137 | 19% | 0.06 |
| DLC | Ground Source Heat Pump (Closed Loop) | Mining | HVAC | New | heat pump | 31,151 | 1.0% | 0.07 | 15 | \$2,028 | 19% | 0.12 |
| DLC | Ground Source Heat Pump (Closed Loop) | Mining | HVAC | ROB | heat pump | 31,151 | 1.0% | 0.07 | 15 | \$2,028 | 19% | 0.12 |
| DLC | Ground Source Heat Pump (Open Loop) | Mining | HVAC | Early | heat pump | 31,151 | 1.3% | 0.09 | 15 | \$3,290 | 19% | 0.09 |
| DLC | Ground Source Heat Pump (Open Loop) | Mining | HVAC | New | heat pump | 31,151 | 1.0% | 0.07 | 15 | \$70 | 19% | 2.67 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|---------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Ground Source Heat Pump (Open Loop) | Mining | HVAC | ROB | heat pump | 31,151 | 1.0% | 0.07 | 15 | \$70 | 19% | 2.67 |
| DLC | HE Air Cooled Chiller, 100 Tons | Mining | HVAC | Early | unit (ton) | 31,151 | 1.5% | 0.10 | 15 | \$36,622 | 89% | 0.01 |
| DLC | HE Air Cooled Chiller, 100 Tons | Mining | HVAC | New | unit (ton) | 31,151 | 0.4% | 0.03 | 15 | \$5,335 | 89% | 0.02 |
| DLC | HE Air Cooled Chiller, 100 Tons | Mining | HVAC | ROB | unit (ton) | 31,151 | 0.4% | 0.03 | 15 | \$5,335 | 89% | 0.02 |
| DLC | HE Air Cooled Chiller, 150 Tons | Mining | HVAC | Early | unit (ton) | 31,151 | 1.5% | 0.10 | 15 | \$31,634 | 89% | 0.01 |
| DLC | HE Air Cooled Chiller, 150 Tons | Mining | HVAC | New | unit (ton) | 31,151 | 0.3% | 0.02 | 15 | \$2,620 | 89% | 0.03 |
| DLC | HE Air Cooled Chiller, 150 Tons | Mining | HVAC | ROB | unit (ton) | 31,151 | 0.3% | 0.02 | 15 | \$2,620 | 89% | 0.03 |
| DLC | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mining | HVAC | Early | heat pump | 31,151 | 1.4% | 0.10 | 12 | \$1,341 | 81% | 0.20 |
| DLC | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mining | HVAC | Early | heat pump | 31,151 | 1.1% | 0.08 | 12 | \$980 | 81% | 0.22 |
| DLC | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mining | HVAC | New | heat pump | 31,151 | 1.0% | 0.07 | 12 | \$599 | 81% | 0.32 |
| DLC | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mining | HVAC | New | heat pump | 31,151 | 0.8% | 0.05 | 12 | \$209 | 81% | 0.66 |
| DLC | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mining | HVAC | ROB | heat pump | 31,151 | 1.0% | 0.07 | 12 | \$599 | 81% | 0.32 |
| DLC | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mining | HVAC | ROB | heat pump | 31,151 | 0.8% | 0.05 | 12 | \$209 | 81% | 0.66 |
| DLC | HE Water Cooled Centrifugal Chiller, 175 Tons | Mining | HVAC | Early | unit (ton) | 31,151 | 1.6% | 0.11 | 15 | \$2,906 | 89% | 0.13 |
| DLC | HE Water Cooled Centrifugal Chiller, 175 Tons | Mining | HVAC | New | unit (ton) | 31,151 | 0.9% | 0.06 | 15 | \$966 | 89% | 0.23 |
| DLC | HE Water Cooled Centrifugal Chiller, 175 Tons | Mining | HVAC | ROB | unit (ton) | 31,151 | 0.9% | 0.06 | 15 | \$966 | 89% | 0.23 |
| DLC | HE Water Cooled Centrifugal Chiller, 300 Tons | Mining | HVAC | Early | unit (ton) | 31,151 | 1.4% | 0.10 | 15 | \$2,838 | 89% | 0.12 |
| DLC | HE Water Cooled Centrifugal Chiller, 300 Tons | Mining | HVAC | New | unit (ton) | 31,151 | 1.0% | 0.07 | 15 | \$554 | 89% | 0.42 |
| DLC | HE Water Cooled Centrifugal Chiller, 300 Tons | Mining | HVAC | ROB | unit (ton) | 31,151 | 1.4% | 0.10 | 15 | \$509 | 89% | 0.63 |
| DLC | HE Water Cooled Centrifugal Chiller, 500 Tons | Mining | HVAC | Early | unit (ton) | 31,151 | 1.4% | 0.10 | 15 | \$3,359 | 89% | 0.10 |
| DLC | HE Water Cooled Centrifugal Chiller, 500 Tons | Mining | HVAC | New | unit (ton) | 31,151 | 0.9% | 0.06 | 15 | \$1,414 | 89% | 0.15 |
| DLC | HE Water Cooled Centrifugal Chiller, 500 Tons | Mining | HVAC | ROB | unit (ton) | 31,151 | 1.4% | 0.10 | 15 | \$1,280 | 89% | 0.26 |
| DLC | HE Water Cooled Centrifugal Chiller, 600 Tons | Mining | HVAC | Early | unit (ton) | 31,151 | 1.4% | 0.10 | 15 | \$3,235 | 89% | 0.10 |
| DLC | HE Water Cooled Centrifugal Chiller, 600 Tons | Mining | HVAC | New | unit (ton) | 31,151 | 0.9% | 0.06 | 15 | \$1,229 | 89% | 0.17 |
| DLC | HE Water Cooled Centrifugal Chiller, 600 Tons | Mining | HVAC | ROB | unit (ton) | 31,151 | 1.4% | 0.10 | 15 | \$1,113 | 89% | 0.30 |
| DLC | HE Water Cooled Reciprocating Chiller, 100 Tons | Mining | HVAC | Early | unit (ton) | 31,151 | 1.8% | 0.13 | 15 | \$3,486 | 89% | 0.12 |
| DLC | HE Water Cooled Reciprocating Chiller, 100 Tons | Mining | HVAC | New | unit (ton) | 31,151 | 0.6% | 0.04 | 15 | \$2,159 | 89% | 0.06 |
| DLC | HE Water Cooled Reciprocating Chiller, 100 Tons | Mining | HVAC | ROB | unit (ton) | 31,151 | 1.8% | 0.13 | 15 | \$1,676 | 89% | 0.26 |
| DLC | HE Water Cooled Reciprocating Chiller, 175 Tons | Mining | HVAC | Early | unit (ton) | 31,151 | 2.2% | 0.15 | 15 | \$3,207 | 89% | 0.16 |
| DLC | HE Water Cooled Reciprocating Chiller, 175 Tons | Mining | HVAC | New | unit (ton) | 31,151 | 0.8% | 0.05 | 15 | \$1,287 | 89% | 0.14 |
| DLC | HE Water Cooled Reciprocating Chiller, 175 Tons | Mining | HVAC | ROB | unit (ton) | 31,151 | 0.8% | 0.05 | 15 | \$1,287 | 89% | 0.14 |
| DLC | HE Water Cooled Reciprocating Chiller, 300 Tons | Mining | HVAC | Early | unit (ton) | 31,151 | 2.4% | 0.17 | 15 | \$2,718 | 89% | 0.21 |
| DLC | HE Water Cooled Reciprocating Chiller, 300 Tons | Mining | HVAC | New | unit (ton) | 31,151 | 0.9% | 0.06 | 15 | \$684 | 89% | 0.31 |
| DLC | HE Water Cooled Reciprocating Chiller, 300 Tons | Mining | HVAC | ROB | unit (ton) | 31,151 | 2.4% | 0.17 | 15 | \$488 | 89% | 1.08 |
| DLC | HE Water Cooled Reciprocating Chiller, 50 Tons | Mining | HVAC | Early | unit (ton) | 31,151 | 1.8% | 0.13 | 15 | \$2,690 | 89% | 0.16 |
| DLC | HE Water Cooled Reciprocating Chiller, 50 Tons | Mining | HVAC | New | unit (ton) | 31,151 | 0.7% | 0.05 | 15 | \$753 | 89% | 0.22 |
| DLC | HE Water Cooled Reciprocating Chiller, 50 Tons | Mining | HVAC | ROB | unit (ton) | 31,151 | 1.8% | 0.13 | 15 | \$597 | 89% | 0.69 |
| DLC | HVAC Diagnostic/Air Conditioner Tune Up | Mining | HVAC | Existing | building | 31,151 | 2.9% | 0.18 | 5 | \$330 | 55% | 0.55 |
| DLC | HVAC Diagnostic/Air Conditioner Tune Up | Mining | HVAC | New | building | 31,151 | 0.6% | 0.07 | 5 | \$198 | 51% | 0.28 |
| DLC | Outside Air Economizer | Mining | HVAC | Existing | building | 31,151 | 1.1% | 0.09 | 10 | \$114,453 | 82% | 0.00 |
| DLC | Outside Air Economizer | Mining | HVAC | New | building | 31,151 | 1.1% | 0.09 | 10 | \$114,453 | 82% | 0.00 |
| DLC | Room AC (with louvered sides) | Mining | HVAC | Early | unit (ton) | 31,151 | 7.7% | 0.54 | 9 | \$2,442 | 78% | 0.43 |
| DLC | Room AC (with louvered sides) | Mining | HVAC | New | unit (ton) | 31,151 | 2.6% | 0.18 | 9 | \$134 | 78% | 1.95 |
| DLC | Room AC (with louvered sides) | Mining | HVAC | ROB | unit (ton) | 31,151 | 2.6% | 0.18 | 9 | \$134 | 78% | 1.95 |
| DLC | Variable Refrigerant Flow Heat Pump | Mining | HVAC | New | measure | 31,151 | 0.1% | 0.01 | 13 | \$230 | 43% | 0.10 |
| DLC | Variable Refrigerant Flow Heat Pump | Mining | HVAC | ROB | measure | 31,151 | 0.1% | 0.01 | 13 | \$230 | 43% | 0.10 |
| DLC | VFD on Cooling Tower Fan | Mining | HVAC | Early | motor | 31,151 | 21% | 1.96 | 15 | \$1,435 | 15% | 2.92 |
| DLC | VFD on Cooling Tower Fan | Mining | HVAC | New | motor | 31,151 | 22% | 1.96 | 15 | \$1,463 | 15% | 2.90 |
| DLC | VFD on Cooling Tower Fan | Mining | HVAC | ROB | motor | 31,151 | 22% | 1.96 | 15 | \$1,463 | 15% | 2.90 |
| DLC | Wall Insualtions (Going upto R 21) | Mining | HVAC | Existing | building | 31,151 | 19% | 1.49 | 15 | \$22,159 | 26% | 0.21 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---------------------------------------|---------|----------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Wall Insualtions (Going upto R 21) | Mining | HVAC | New | building | 31,151 | 0.6% | 0.05 | 15 | \$16,997 | 94% | 0.01 |
| DLC | Water Source Heat Pump (4 ton) | Mining | HVAC | Early | heat pump | 31,151 | 1.5% | 0.11 | 15 | \$5,320 | 28% | 0.07 |
| DLC | Water Source Heat Pump (4 ton) | Mining | HVAC | New | heat pump | 31,151 | 1.1% | 0.08 | 15 | \$2,593 | 28% | 0.10 |
| DLC | Water Source Heat Pump (4 ton) | Mining | HVAC | ROB | heat pump | 31,151 | 1.1% | 0.08 | 15 | \$2,593 | 28% | 0.10 |
| DLC | Efficient Metal Halide (High Bay) | Mining | Lighting | Early | end use | 25,309 | 42% | 0.00 | 9 | \$3,955 | 53% | 0.73 |
| DLC | Efficient Metal Halide (High Bay) | Mining | Lighting | New | end use | 25,309 | 41% | 0.00 | 13 | \$105,633 | 61% | 0.05 |
| DLC | Efficient Metal Halide (High Bay) | Mining | Lighting | ROB | end use | 25,309 | 41% | 0.00 | 13 | \$80,731 | 61% | 0.06 |
| DLC | Induction (High Bay) | Mining | Lighting | Early | end use | 25,309 | 94% | 0.00 | 13 | \$11,767 | 95% | 0.88 |
| DLC | Induction (High Bay) | Mining | Lighting | New | end use | 25,309 | 94% | 0.00 | 13 | \$11,017 | 95% | 0.93 |
| DLC | Induction (High Bay) | Mining | Lighting | ROB | end use | 25,309 | 94% | 0.00 | 13 | \$8,373 | 95% | 1.18 |
| DLC | LED (High Bay) | Mining | Lighting | Early | end use | 25,309 | 69% | 0.00 | 14 | \$13,852 | 95% | 0.61 |
| DLC | LED (High Bay) | Mining | Lighting | New | end use | 25,309 | 55% | 0.00 | 14 | \$15,375 | 95% | 0.45 |
| DLC | LED (High Bay) | Mining | Lighting | ROB | end use | 25,309 | 59% | 0.00 | 14 | \$10,130 | 95% | 0.71 |
| DLC | Lighting Controls | Mining | Lighting | Existing | end use | 25,309 | 20% | 0.00 | 6 | \$94,879 | 16% | 0.01 |
| DLC | Lighting Controls | Mining | Lighting | New | end use | 25,309 | 12% | 0.00 | 10 | \$126,220 | 11% | 0.01 |
| DLC | Linear Fluorescent (High Bay) | Mining | Lighting | Early | end use | 25,309 | 17% | 0.00 | 14 | \$2,896 | 98% | 0.71 |
| DLC | Linear Fluorescent (High Bay) | Mining | Lighting | New | end use | 25,309 | 13% | 0.00 | 14 | \$918 | 91% | 1.50 |
| DLC | Linear Fluorescent (High Bay) | Mining | Lighting | ROB | end use | 25,309 | 13% | 0.00 | 14 | \$588 | 91% | 2.16 |
| DLC | Metal Halide (High Bay) | Mining | Lighting | Early | end use | 25,309 | 62% | 0.00 | 13 | \$17,398 | 38% | 0.42 |
| DLC | Metal Halide (High Bay) | Mining | Lighting | New | end use | 25,309 | 73% | 0.00 | 13 | \$4,160 | 38% | 1.67 |
| DLC | Metal Halide (High Bay) | Mining | Lighting | ROB | end use | 25,309 | 73% | 0.00 | 13 | \$3,161 | 38% | 2.05 |
| DLC | Screw Base CFL | Mining | Lighting | Early | end use | 25,309 | 80% | 0.00 | 7 | \$6,876 | 17% | 0.54 |
| DLC | Screw Base CFL | Mining | Lighting | New | end use | 25,309 | 73% | 0.00 | 9 | \$5,619 | 18% | 0.85 |
| DLC | Screw Base CFL | Mining | Lighting | ROB | end use | 25,309 | 73% | 0.00 | 9 | \$4,703 | 17% | 0.98 |
| DLC | Screw Base LED | Mining | Lighting | Early | end use | 25,309 | 76% | 0.00 | 9 | \$4,220 | 21% | 1.17 |
| DLC | Screw Base LED | Mining | Lighting | New | end use | 25,309 | 77% | 0.00 | 9 | \$2,351 | 20% | 1.79 |
| DLC | Screw Base LED | Mining | Lighting | ROB | end use | 25,309 | 77% | 0.00 | 9 | \$1,866 | 21% | 2.05 |
| DLC | T8 High Performance Linear Florescent | Mining | Lighting | Early | end use | 25,309 | 36% | 0.00 | 14 | \$2,422 | 71% | 1.59 |
| DLC | T8 High Performance Linear Florescent | Mining | Lighting | New | end use | 25,309 | 26% | 0.00 | 14 | \$866 | 76% | 2.67 |
| DLC | T8 High Performance Linear Florescent | Mining | Lighting | ROB | end use | 25,309 | 26% | 0.00 | 14 | \$659 | 76% | 3.16 |
| DLC | Enhanced (Ultra-PE) Motor 1-15 HP | Mining | Motors | Early | end use | 42,058 | 0.9% | 0.05 | 15 | \$642 | 81% | 0.40 |
| DLC | Enhanced (Ultra-PE) Motor 1-15 HP | Mining | Motors | New | end use | 42,058 | 0.9% | 0.05 | 15 | \$642 | 81% | 0.40 |
| DLC | Enhanced (Ultra-PE) Motor 1-15 HP | Mining | Motors | ROB | end use | 42,058 | 0.9% | 0.05 | 15 | \$642 | 81% | 0.40 |
| DLC | Enhanced (Ultra-PE) Motor 125-200 HP | Mining | Motors | Early | end use | 42,058 | 0.7% | 0.04 | 15 | \$390 | 73% | 0.53 |
| DLC | Enhanced (Ultra-PE) Motor 125-200 HP | Mining | Motors | New | end use | 42,058 | 0.8% | 0.04 | 15 | \$390 | 73% | 0.54 |
| DLC | Enhanced (Ultra-PE) Motor 125-200 HP | Mining | Motors | ROB | end use | 42,058 | 0.8% | 0.04 | 15 | \$390 | 73% | 0.54 |
| DLC | Enhanced (Ultra-PE) Motor 20-40 HP | Mining | Motors | Early | end use | 42,058 | 0.5% | 0.03 | 15 | \$150 | 81% | 0.82 |
| DLC | Enhanced (Ultra-PE) Motor 20-40 HP | Mining | Motors | New | end use | 42,058 | 0.5% | 0.03 | 15 | \$150 | 81% | 0.82 |
| DLC | Enhanced (Ultra-PE) Motor 20-40 HP | Mining | Motors | ROB | end use | 42,058 | 0.4% | 0.03 | 15 | \$150 | 81% | 0.80 |
| DLC | Enhanced (Ultra-PE) Motor 250-500 HP | Mining | Motors | Early | end use | 42,058 | 0.4% | 0.02 | 15 | \$49 | 73% | 1.91 |
| DLC | Enhanced (Ultra-PE) Motor 250-500 HP | Mining | Motors | New | end use | 42,058 | 0.4% | 0.02 | 15 | \$49 | 73% | 1.88 |
| DLC | Enhanced (Ultra-PE) Motor 250-500 HP | Mining | Motors | ROB | end use | 42,058 | 0.4% | 0.02 | 15 | \$49 | 73% | 1.94 |
| DLC | Enhanced (Ultra-PE) Motor 50-100 HP | Mining | Motors | Early | end use | 42,058 | 0.9% | 0.05 | 15 | \$74 | 47% | 2.68 |
| DLC | Enhanced (Ultra-PE) Motor 50-100 HP | Mining | Motors | New | end use | 42,058 | 0.9% | 0.05 | 15 | \$74 | 47% | 2.68 |
| DLC | Enhanced (Ultra-PE) Motor 50-100 HP | Mining | Motors | ROB | end use | 42,058 | 0.9% | 0.05 | 15 | \$74 | 47% | 2.69 |
| DLC | HE Motors | Mining | Motors | Early | end use | 42,058 | 2.0% | 0.12 | 15 | \$250 | 38% | 1.93 |
| DLC | HE Motors | Mining | Motors | New | end use | 42,058 | 2.0% | 0.12 | 15 | \$250 | 38% | 1.93 |
| DLC | HE Motors | Mining | Motors | ROB | end use | 42,058 | 2.0% | 0.12 | 15 | \$250 | 38% | 1.93 |
| DLC | Improved Controls - Motors | Mining | Motors | Existing | end use | 42,058 | 4.0% | 0.24 | 10 | \$183 | 13% | 2.57 |
| DLC | Improved Controls - Motors | Mining | Motors | New | end use | 42,058 | 4.0% | 0.24 | 10 | \$183 | 13% | 2.57 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|---------------|------------------------|----------|---------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Material Handling | Mining | Motors | Early | end use | 42,058 | 18% | 1.11 | 10 | \$2,033 | 77% | 1.39 |
| DLC | Material Handling | Mining | Motors | New | end use | 42,058 | 18% | 1.11 | 10 | \$2,033 | 77% | 1.39 |
| DLC | Material Handling | Mining | Motors | ROB | end use | 42,058 | 18% | 1.11 | 10 | \$2,033 | 77% | 1.39 |
| DLC | Material Handling VFD | Mining | Motors | Early | end use | 42,058 | 16% | 0.97 | 10 | \$1,406 | 77% | 1.67 |
| DLC | Material Handling VFD | Mining | Motors | New | end use | 42,058 | 16% | 0.97 | 10 | \$1,406 | 77% | 1.67 |
| DLC | Material Handling VFD | Mining | Motors | ROB | end use | 42,058 | 16% | 0.97 | 10 | \$1,406 | 77% | 1.67 |
| DLC | Motor Management Plan | Mining | Motors | Existing | end use | 42,058 | 2.9% | 0.17 | 10 | \$86 | 73% | 3.29 |
| DLC | Motor Management Plan | Mining | Motors | New | end use | 42,058 | 2.9% | 0.17 | 10 | \$86 | 73% | 3.29 |
| DLC | Motors Other | Mining | Motors | Existing | end use | 42,058 | 1.1% | 0.07 | 15 | \$8.4 | 83% | 7.86 |
| DLC | Motors Other | Mining | Motors | New | end use | 42,058 | 1.1% | 0.07 | 15 | \$8.4 | 83% | 7.86 |
| DLC | Motors: Rewind 101-200 HP | Mining | Motors | Existing | end use | 42,058 | 0.6% | 0.03 | 10 | \$53 | 27% | 1.55 |
| DLC | Motors: Rewind 101-200 HP | Mining | Motors | New | end use | 42,058 | 0.6% | 0.03 | 10 | \$53 | 27% | 1.55 |
| DLC | Motors: Rewind 201-500 HP | Mining | Motors | Existing | end use | 42,058 | 0.5% | 0.03 | 8 | \$33 | 27% | 1.64 |
| DLC | Motors: Rewind 201-500 HP | Mining | Motors | New | end use | 42,058 | 0.5% | 0.03 | 8 | \$33 | 27% | 1.64 |
| DLC | Motors: Rewind 20-50 HP | Mining | Motors | Existing | end use | 42,058 | 1.0% | 0.06 | 11 | \$156 | 42% | 1.22 |
| DLC | Motors: Rewind 20-50 HP | Mining | Motors | New | end use | 42,058 | 1.0% | 0.06 | 11 | \$156 | 42% | 1.22 |
| DLC | Motors: Rewind 500+ HP | Mining | Motors | Existing | end use | 42,058 | 0.6% | 0.03 | 8 | \$24 | 11% | 2.06 |
| DLC | Motors: Rewind 500+ HP | Mining | Motors | New | end use | 42,058 | 0.6% | 0.03 | 8 | \$24 | 11% | 2.06 |
| DLC | Motors: Rewind 51-100 HP | Mining | Motors | Existing | end use | 42,058 | 0.6% | 0.04 | 9 | \$77 | 42% | 1.09 |
| DLC | Motors: Rewind 51-100 HP | Mining | Motors | New | end use | 42,058 | 0.6% | 0.04 | 9 | \$77 | 42% | 1.09 |
| DLC | Switch from Belt drive to Direct Drive | Mining | Motors | Early | end use | 42,058 | 7.5% | 0.45 | 12 | \$675 | 30% | 1.98 |
| DLC | Switch from Belt drive to Direct Drive | Mining | Motors | New | end use | 42,058 | 7.5% | 0.45 | 12 | \$675 | 30% | 1.98 |
| DLC | Switch from Belt drive to Direct Drive | Mining | Motors | ROB | end use | 42,058 | 7.5% | 0.45 | 12 | \$675 | 30% | 1.98 |
| DLC | Synchronous Belts | Mining | Motors | Early | end use | 42,058 | 1.2% | 0.07 | 10 | \$62 | 30% | 2.36 |
| DLC | Synchronous Belts | Mining | Motors | New | end use | 42,058 | 1.2% | 0.07 | 10 | \$62 | 30% | 2.36 |
| DLC | Synchronous Belts | Mining | Motors | ROB | end use | 42,058 | 1.2% | 0.07 | 10 | \$62 | 30% | 2.36 |
| DLC | Air Compressor Demand Reduction | Mining | Process Air Compressor | Existing | end use | 936 | 26% | 0.03 | 10 | \$14 | 52% | 3.54 |
| DLC | Air Compressor Demand Reduction | Mining | Process Air Compressor | New | end use | 936 | 26% | 0.03 | 10 | \$14 | 52% | 3.54 |
| DLC | VFD on Cooling Tower Fan | Mining | Process Cooling | Early | motor | 15,256 | 21% | 0.96 | 15 | \$703 | 20% | 2.91 |
| DLC | VFD on Cooling Tower Fan | Mining | Process Cooling | New | motor | 15,256 | 22% | 0.96 | 15 | \$716 | 20% | 2.89 |
| DLC | VFD on Cooling Tower Fan | Mining | Process Cooling | ROB | motor | 15,256 | 22% | 0.96 | 15 | \$716 | 20% | 2.89 |
| DLC | VFD on Cooling Tower Fan | Mining | Process Refrigeration | Early | motor | 7,837 | 21% | 0.49 | 15 | \$361 | 20% | 2.91 |
| DLC | VFD on Cooling Tower Fan | Mining | Process Refrigeration | New | motor | 7,837 | 22% | 0.49 | 15 | \$368 | 20% | 2.89 |
| DLC | VFD on Cooling Tower Fan | Mining | Process Refrigeration | ROB | motor | 7,837 | 22% | 0.49 | 15 | \$368 | 20% | 2.89 |
| DLC | Agricultural Exhaust Fans (Rate 21 CFM) | Other Non-Mfg | Fans | Early | end use | 110,515 | 5.0% | 0.66 | 15 | \$1,402 | 11% | 2.09 |
| DLC | Agricultural Exhaust Fans (Rate 21 CFM) | Other Non-Mfg | Fans | New | end use | 110,515 | 5.0% | 0.66 | 15 | \$1,402 | 11% | 2.09 |
| DLC | Agricultural Exhaust Fans (Rate 21 CFM) | Other Non-Mfg | Fans | ROB | end use | 110,515 | 5.0% | 0.66 | 15 | \$1,402 | 11% | 2.09 |
| DLC | Circulating Fans | Other Non-Mfg | Fans | Early | end use | 110,515 | 5.0% | 0.66 | 10 | \$673 | 53% | 2.34 |
| DLC | Circulating Fans | Other Non-Mfg | Fans | New | end use | 110,515 | 5.0% | 0.66 | 10 | \$673 | 53% | 2.34 |
| DLC | Circulating Fans | Other Non-Mfg | Fans | ROB | end use | 110,515 | 5.0% | 0.66 | 10 | \$673 | 53% | 2.34 |
| DLC | Facility Energy Management | Other Non-Mfg | Fans | Existing | end use | 110,515 | 1.8% | 0.24 | 2 | \$43 | 61% | 1.00 |
| DLC | Facility Energy Management | Other Non-Mfg | Fans | New | end use | 110,515 | 1.8% | 0.24 | 2 | \$43 | 61% | 1.00 |
| DLC | Fan Equipment Upgrade | Other Non-Mfg | Fans | Early | end use | 110,515 | 35% | 4.60 | 10 | \$3,315 | 53% | 2.88 |
| DLC | Fan Equipment Upgrade | Other Non-Mfg | Fans | New | end use | 110,515 | 35% | 4.60 | 10 | \$3,315 | 53% | 2.88 |
| DLC | Fan Equipment Upgrade | Other Non-Mfg | Fans | ROB | end use | 110,515 | 35% | 4.60 | 10 | \$3,315 | 53% | 2.88 |
| DLC | Fan System Optimization | Other Non-Mfg | Fans | Existing | end use | 110,515 | 7.3% | 0.97 | 10 | \$1,507 | 66% | 1.75 |
| DLC | Fan System Optimization | Other Non-Mfg | Fans | New | end use | 110,515 | 7.3% | 0.97 | 10 | \$1,507 | 66% | 1.75 |
| DLC | HE Motors | Other Non-Mfg | Fans | Early | end use | 110,515 | 2.0% | 0.27 | 15 | \$658 | 61% | 1.87 |
| DLC | HE Motors | Other Non-Mfg | Fans | New | end use | 110,515 | 2.0% | 0.27 | 15 | \$658 | 61% | 1.87 |
| DLC | HE Motors | Other Non-Mfg | Fans | ROB | end use | 110,515 | 2.0% | 0.27 | 15 | \$658 | 61% | 1.87 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|---------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | High Volume Low Speed Fans | Other Non-Mfg | Fans | Early | end use | 110,515 | 47% | 6.13 | 15 | \$83,080 | 53% | 0.40 |
| DLC | High Volume Low Speed Fans | Other Non-Mfg | Fans | New | end use | 110,515 | 47% | 6.13 | 15 | \$83,080 | 53% | 0.40 |
| DLC | High Volume Low Speed Fans | Other Non-Mfg | Fans | ROB | end use | 110,515 | 47% | 6.13 | 15 | \$83,080 | 53% | 0.40 |
| DLC | Improved Controls - Fans | Other Non-Mfg | Fans | Existing | end use | 110,515 | 7.1% | 0.93 | 10 | \$428 | 69% | 3.59 |
| DLC | Improved Controls - Fans | Other Non-Mfg | Fans | New | end use | 110,515 | 7.1% | 0.93 | 10 | \$428 | 69% | 3.59 |
| DLC | Properly Sized Fans | Other Non-Mfg | Fans | Early | end use | 110,515 | 13% | 1.73 | 10 | \$2,263 | 32% | 1.99 |
| DLC | Properly Sized Fans | Other Non-Mfg | Fans | New | end use | 110,515 | 13% | 1.73 | 10 | \$2,263 | 32% | 1.99 |
| DLC | Properly Sized Fans | Other Non-Mfg | Fans | ROB | end use | 110,515 | 13% | 1.73 | 10 | \$2,263 | 32% | 1.99 |
| DLC | Synchronous Belts | Other Non-Mfg | Fans | Early | end use | 110,515 | 1.2% | 0.15 | 10 | \$163 | 32% | 2.28 |
| DLC | Synchronous Belts | Other Non-Mfg | Fans | New | end use | 110,515 | 1.2% | 0.15 | 10 | \$163 | 32% | 2.28 |
| DLC | Synchronous Belts | Other Non-Mfg | Fans | ROB | end use | 110,515 | 1.2% | 0.15 | 10 | \$163 | 32% | 2.28 |
| DLC | <65k BTU/hr 14 SEER Air Conditioner | Other Non-Mfg | HVAC | Early | unit (ton) | 377,373 | 9.2% | 8.98 | 15 | \$68,743 | 28% | 0.39 |
| DLC | <65k BTU/hr 14 SEER Air Conditioner | Other Non-Mfg | HVAC | New | unit (ton) | 377,373 | 4.1% | 4.03 | 15 | \$16,655 | 28% | 0.70 |
| DLC | <65k BTU/hr 14 SEER Air Conditioner | Other Non-Mfg | HVAC | ROB | unit (ton) | 377,373 | 4.1% | 4.03 | 15 | \$16,655 | 28% | 0.70 |
| DLC | <65k BTU/hr 15 SEER Air Conditioner | Other Non-Mfg | HVAC | Early | unit (ton) | 377,373 | 12% | 12.14 | 15 | \$81,041 | 28% | 0.45 |
| DLC | <65k BTU/hr 15 SEER Air Conditioner | Other Non-Mfg | HVAC | New | unit (ton) | 377,373 | 7.7% | 7.53 | 15 | \$35,079 | 28% | 0.63 |
| DLC | <65k BTU/hr 15 SEER Air Conditioner | Other Non-Mfg | HVAC | ROB | unit (ton) | 377,373 | 7.7% | 7.53 | 15 | \$35,079 | 28% | 0.63 |
| DLC | <65k BTU/hr 16 SEER Air Conditioner | Other Non-Mfg | HVAC | Early | unit (ton) | 377,373 | 15% | 14.91 | 15 | \$93,339 | 29% | 0.47 |
| DLC | <65k BTU/hr 16 SEER Air Conditioner | Other Non-Mfg | HVAC | New | unit (ton) | 377,373 | 11% | 10.59 | 15 | \$53,503 | 29% | 0.58 |
| DLC | <65k BTU/hr 16 SEER Air Conditioner | Other Non-Mfg | HVAC | ROB | unit (ton) | 377,373 | 11% | 10.59 | 15 | \$53,503 | 29% | 0.58 |
| DLC | >760k min 10.2 EER Air Conditioner | Other Non-Mfg | HVAC | Early | unit (ton) | 377,373 | 2.1% | 2.08 | 15 | \$119,711 | 35% | 0.05 |
| DLC | >760k min 10.2 EER Air Conditioner | Other Non-Mfg | HVAC | New | unit (ton) | 377,373 | 2.8% | 2.77 | 15 | \$10,819 | 35% | 0.74 |
| DLC | >760k min 10.2 EER Air Conditioner | Other Non-Mfg | HVAC | ROB | unit (ton) | 377,373 | 2.8% | 2.77 | 15 | \$10,819 | 35% | 0.74 |
| DLC | 135-240k min 12 EER Air Conditioner | Other Non-Mfg | HVAC | Early | unit (ton) | 377,373 | 10% | 10.24 | 15 | \$129,629 | 35% | 0.24 |
| DLC | 135-240k min 12 EER Air Conditioner | Other Non-Mfg | HVAC | New | unit (ton) | 377,373 | 5.8% | 5.65 | 15 | \$15,306 | 35% | 1.04 |
| DLC | 135-240k min 12 EER Air Conditioner | Other Non-Mfg | HVAC | ROB | unit (ton) | 377,373 | 5.8% | 5.65 | 15 | \$15,306 | 35% | 1.04 |
| DLC | 240k-760k min 11 EER Air Conditioner | Other Non-Mfg | HVAC | Early | unit (ton) | 377,373 | 5.2% | 5.10 | 15 | \$119,787 | 35% | 0.13 |
| DLC | 240k-760k min 11 EER Air Conditioner | Other Non-Mfg | HVAC | New | unit (ton) | 377,373 | 5.3% | 5.23 | 15 | \$12,833 | 35% | 1.14 |
| DLC | 240k-760k min 11 EER Air Conditioner | Other Non-Mfg | HVAC | ROB | unit (ton) | 377,373 | 5.3% | 5.23 | 15 | \$12,833 | 35% | 1.14 |
| DLC | 65k-135k BTU/hr 12 EER Air Conditioner | Other Non-Mfg | HVAC | Early | unit (ton) | 377,373 | 9.7% | 9.50 | 15 | \$132,729 | 35% | 0.22 |
| DLC | 65k-135k BTU/hr 12 EER Air Conditioner | Other Non-Mfg | HVAC | New | unit (ton) | 377,373 | 3.8% | 3.76 | 15 | \$18,937 | 35% | 0.58 |
| DLC | 65k-135k BTU/hr 12 EER Air Conditioner | Other Non-Mfg | HVAC | ROB | unit (ton) | 377,373 | 3.8% | 3.76 | 15 | \$18,937 | 35% | 0.58 |
| DLC | Ceiling Insualtions (Going upto R 20) | Other Non-Mfg | HVAC | Existing | building | 377,373 | 5.9% | 5.60 | 15 | \$1,143,379 | 71% | 0.02 |
| DLC | Ceiling Insualtions (Going upto R 20) | Other Non-Mfg | HVAC | New | building | 377,373 | 3.7% | 3.52 | 15 | \$1,086,814 | 94% | 0.01 |
| DLC | Chiller Tuneup/Diagnostics | Other Non-Mfg | HVAC | Existing | building | 377,373 | 8.0% | 11.07 | 10 | \$963,601 | 59% | 0.02 |
| DLC | Chiller Tuneup/Diagnostics | Other Non-Mfg | HVAC | New | building | 377,373 | 8.0% | 11.09 | 10 | \$963,601 | 59% | 0.02 |
| DLC | Cooling Tower Optimization | Other Non-Mfg | HVAC | Existing | building | 377,373 | 20% | 27.01 | 10 | \$2,314 | 12% | 6.05 |
| DLC | Duct Insulation, Add R8 | Other Non-Mfg | HVAC | Existing | building | 377,373 | 1.5% | 1.21 | 15 | \$2,998 | 18% | 1.30 |
| DLC | Duct Insulation, Add R8 | Other Non-Mfg | HVAC | New | building | 377,373 | 1.5% | 1.21 | 15 | \$2,998 | 9% | 1.30 |
| DLC | Ductless Heat Pump | Other Non-Mfg | HVAC | Early | heat pump | 377,373 | 0.8% | 0.71 | 15 | \$29,972 | 83% | 0.08 |
| DLC | Ductless Heat Pump | Other Non-Mfg | HVAC | New | heat pump | 377,373 | 0.4% | 0.37 | 15 | \$8,704 | 83% | 0.15 |
| DLC | Ductless Heat Pump | Other Non-Mfg | HVAC | ROB | heat pump | 377,373 | 0.4% | 0.37 | 15 | \$8,704 | 83% | 0.15 |
| DLC | DX Coil Cleaning | Other Non-Mfg | HVAC | Existing | building | 377,373 | 13% | 17.31 | 1 | \$3,617 | 73% | 0.43 |
| DLC | DX Coil Cleaning | Other Non-Mfg | HVAC | New | building | 377,373 | 13% | 17.31 | 1 | \$3,617 | 73% | 0.43 |
| DLC | Efficient Unit Heating System | Other Non-Mfg | HVAC | Early | heater | 377,373 | 6.9% | 0.22 | 15 | \$20,328 | 83% | 0.68 |
| DLC | Efficient Unit Heating System | Other Non-Mfg | HVAC | New | heater | 377,373 | 4.0% | 0.12 | 15 | \$13,866 | 83% | 0.58 |
| DLC | Efficient Unit Heating System | Other Non-Mfg | HVAC | ROB | heater | 377,373 | 4.0% | 0.12 | 15 | \$13,866 | 83% | 0.58 |
| DLC | Ground Source Heat Pump (Closed Loop) | Other Non-Mfg | HVAC | Early | heat pump | 377,373 | 1.3% | 1.10 | 15 | \$62,235 | 19% | 0.06 |
| DLC | Ground Source Heat Pump (Closed Loop) | Other Non-Mfg | HVAC | New | heat pump | 377,373 | 1.0% | 0.87 | 15 | \$24,573 | 19% | 0.12 |
| DLC | Ground Source Heat Pump (Closed Loop) | Other Non-Mfg | HVAC | ROB | heat pump | 377,373 | 1.0% | 0.87 | 15 | \$24,573 | 19% | 0.12 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|---------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Ground Source Heat Pump (Open Loop) | Other Non-Mfg | HVAC | Early | heat pump | 377,373 | 1.3% | 1.10 | 15 | \$39,858 | 19% | 0.09 |
| DLC | Ground Source Heat Pump (Open Loop) | Other Non-Mfg | HVAC | New | heat pump | 377,373 | 1.0% | 0.87 | 15 | \$845 | 19% | 2.67 |
| DLC | Ground Source Heat Pump (Open Loop) | Other Non-Mfg | HVAC | ROB | heat pump | 377,373 | 1.0% | 0.87 | 15 | \$845 | 19% | 2.67 |
| DLC | HE Air Cooled Chiller, 100 Tons | Other Non-Mfg | HVAC | Early | unit (ton) | 377,373 | 1.5% | 1.25 | 15 | \$443,660 | 89% | 0.01 |
| DLC | HE Air Cooled Chiller, 100 Tons | Other Non-Mfg | HVAC | New | unit (ton) | 377,373 | 0.4% | 0.35 | 15 | \$64,633 | 89% | 0.02 |
| DLC | HE Air Cooled Chiller, 100 Tons | Other Non-Mfg | HVAC | ROB | unit (ton) | 377,373 | 0.4% | 0.35 | 15 | \$64,633 | 89% | 0.02 |
| DLC | HE Air Cooled Chiller, 150 Tons | Other Non-Mfg | HVAC | Early | unit (ton) | 377,373 | 1.5% | 1.24 | 15 | \$383,223 | 89% | 0.01 |
| DLC | HE Air Cooled Chiller, 150 Tons | Other Non-Mfg | HVAC | New | unit (ton) | 377,373 | 0.3% | 0.26 | 15 | \$31,741 | 89% | 0.03 |
| DLC | HE Air Cooled Chiller, 150 Tons | Other Non-Mfg | HVAC | ROB | unit (ton) | 377,373 | 0.3% | 0.26 | 15 | \$31,741 | 89% | 0.03 |
| DLC | HE Air Source Heat Pump (12 EER, 3.6 COP) | Other Non-Mfg | HVAC | Early | heat pump | 377,373 | 1.4% | 1.16 | 12 | \$16,246 | 81% | 0.20 |
| DLC | HE Air Source Heat Pump (12 EER, 3.6 COP) | Other Non-Mfg | HVAC | Early | heat pump | 377,373 | 1.1% | 0.96 | 12 | \$11,869 | 81% | 0.22 |
| DLC | HE Air Source Heat Pump (12 EER, 3.6 COP) | Other Non-Mfg | HVAC | New | heat pump | 377,373 | 1.0% | 0.86 | 12 | \$7,253 | 81% | 0.32 |
| DLC | HE Air Source Heat Pump (12 EER, 3.6 COP) | Other Non-Mfg | HVAC | New | heat pump | 377,373 | 0.8% | 0.64 | 12 | \$2,535 | 81% | 0.66 |
| DLC | HE Air Source Heat Pump (12 EER, 3.6 COP) | Other Non-Mfg | HVAC | ROB | heat pump | 377,373 | 1.0% | 0.86 | 12 | \$7,253 | 81% | 0.32 |
| DLC | HE Air Source Heat Pump (12 EER, 3.6 COP) | Other Non-Mfg | HVAC | ROB | heat pump | 377,373 | 0.8% | 0.64 | 12 | \$2,535 | 81% | 0.66 |
| DLC | HE Water Cooled Centrifugal Chiller, 175 Tons | Other Non-Mfg | HVAC | Early | unit (ton) | 377,373 | 1.6% | 1.36 | 15 | \$35,202 | 89% | 0.13 |
| DLC | HE Water Cooled Centrifugal Chiller, 175 Tons | Other Non-Mfg | HVAC | New | unit (ton) | 377,373 | 0.9% | 0.79 | 15 | \$11,708 | 89% | 0.23 |
| DLC | HE Water Cooled Centrifugal Chiller, 175 Tons | Other Non-Mfg | HVAC | ROB | unit (ton) | 377,373 | 0.9% | 0.79 | 15 | \$11,708 | 89% | 0.23 |
| DLC | HE Water Cooled Centrifugal Chiller, 300 Tons | Other Non-Mfg | HVAC | Early | unit (ton) | 377,373 | 1.4% | 1.21 | 15 | \$34,380 | 89% | 0.12 |
| DLC | HE Water Cooled Centrifugal Chiller, 300 Tons | Other Non-Mfg | HVAC | New | unit (ton) | 377,373 | 1.0% | 0.85 | 15 | \$6,714 | 89% | 0.42 |
| DLC | HE Water Cooled Centrifugal Chiller, 300 Tons | Other Non-Mfg | HVAC | ROB | unit (ton) | 377,373 | 1.4% | 1.21 | 15 | \$6,167 | 89% | 0.63 |
| DLC | HE Water Cooled Centrifugal Chiller, 500 Tons | Other Non-Mfg | HVAC | Early | unit (ton) | 377,373 | 1.4% | 1.19 | 15 | \$40,691 | 89% | 0.10 |
| DLC | HE Water Cooled Centrifugal Chiller, 500 Tons | Other Non-Mfg | HVAC | New | unit (ton) | 377,373 | 0.9% | 0.76 | 15 | \$17,132 | 89% | 0.15 |
| DLC | HE Water Cooled Centrifugal Chiller, 500 Tons | Other Non-Mfg | HVAC | ROB | unit (ton) | 377,373 | 1.4% | 1.19 | 15 | \$15,506 | 89% | 0.26 |
| DLC | HE Water Cooled Centrifugal Chiller, 600 Tons | Other Non-Mfg | HVAC | Early | unit (ton) | 377,373 | 1.4% | 1.19 | 15 | \$39,196 | 89% | 0.10 |
| DLC | HE Water Cooled Centrifugal Chiller, 600 Tons | Other Non-Mfg | HVAC | New | unit (ton) | 377,373 | 0.9% | 0.76 | 15 | \$14,892 | 89% | 0.17 |
| DLC | HE Water Cooled Centrifugal Chiller, 600 Tons | Other Non-Mfg | HVAC | ROB | unit (ton) | 377,373 | 1.4% | 1.19 | 15 | \$13,478 | 89% | 0.30 |
| DLC | HE Water Cooled Reciprocating Chiller, 100 Tons | Other Non-Mfg | HVAC | Early | unit (ton) | 377,373 | 1.8% | 1.54 | 15 | \$42,235 | 89% | 0.12 |
| DLC | HE Water Cooled Reciprocating Chiller, 100 Tons | Other Non-Mfg | HVAC | New | unit (ton) | 377,373 | 0.6% | 0.47 | 15 | \$26,152 | 89% | 0.06 |
| DLC | HE Water Cooled Reciprocating Chiller, 100 Tons | Other Non-Mfg | HVAC | ROB | unit (ton) | 377,373 | 1.8% | 1.54 | 15 | \$20,307 | 89% | 0.26 |
| DLC | HE Water Cooled Reciprocating Chiller, 175 Tons | Other Non-Mfg | HVAC | Early | unit (ton) | 377,373 | 2.2% | 1.84 | 15 | \$38,847 | 89% | 0.16 |
| DLC | HE Water Cooled Reciprocating Chiller, 175 Tons | Other Non-Mfg | HVAC | New | unit (ton) | 377,373 | 0.8% | 0.66 | 15 | \$15,588 | 89% | 0.14 |
| DLC | HE Water Cooled Reciprocating Chiller, 175 Tons | Other Non-Mfg | HVAC | ROB | unit (ton) | 377,373 | 0.8% | 0.66 | 15 | \$15,588 | 89% | 0.14 |
| DLC | HE Water Cooled Reciprocating Chiller, 300 Tons | Other Non-Mfg | HVAC | Early | unit (ton) | 377,373 | 2.4% | 2.06 | 15 | \$32,924 | 89% | 0.21 |
| DLC | HE Water Cooled Reciprocating Chiller, 300 Tons | Other Non-Mfg | HVAC | New | unit (ton) | 377,373 | 0.9% | 0.77 | 15 | \$8,285 | 89% | 0.31 |
| DLC | HE Water Cooled Reciprocating Chiller, 300 Tons | Other Non-Mfg | HVAC | ROB | unit (ton) | 377,373 | 2.4% | 2.06 | 15 | \$5,907 | 89% | 1.08 |
| DLC | HE Water Cooled Reciprocating Chiller, 50 Tons | Other Non-Mfg | HVAC | Early | unit (ton) | 377,373 | 1.8% | 1.56 | 15 | \$32,593 | 89% | 0.16 |
| DLC | HE Water Cooled Reciprocating Chiller, 50 Tons | Other Non-Mfg | HVAC | New | unit (ton) | 377,373 | 0.7% | 0.59 | 15 | \$9,127 | 89% | 0.22 |
| DLC | HE Water Cooled Reciprocating Chiller, 50 Tons | Other Non-Mfg | HVAC | ROB | unit (ton) | 377,373 | 1.8% | 1.56 | 15 | \$7,231 | 89% | 0.69 |
| DLC | Heat Reclaimer | Other Non-Mfg | HVAC | Existing | end use | 377,373 | 42% | 22.76 | 15 | \$21,586 | 15% | 3.39 |
| DLC | Heat Reclaimer | Other Non-Mfg | HVAC | New | end use | 377,373 | 42% | 22.76 | 15 | \$21,586 | 15% | 3.39 |
| DLC | Heat Recovery Ventilators | Other Non-Mfg | HVAC | Existing | end use | 377,373 | 4.1% | 2.23 | 10 | \$5,535 | 93% | 1.10 |
| DLC | Heat Recovery Ventilators | Other Non-Mfg | HVAC | New | end use | 377,373 | 4.1% | 2.23 | 10 | \$5,535 | 93% | 1.10 |
| DLC | HVAC Diagnostic/Air Conditioner Tune Up | Other Non-Mfg | HVAC | Existing | building | 377,373 | 2.9% | 2.22 | 5 | \$4,004 | 55% | 0.55 |
| DLC | HVAC Diagnostic/Air Conditioner Tune Up | Other Non-Mfg | HVAC | New | building | 377,373 | 0.6% | 0.88 | 5 | \$2,402 | 51% | 0.28 |
| DLC | Improved Controls - HVAC | Other Non-Mfg | HVAC | Existing | end use | 377,373 | 21% | 11.32 | 10 | \$3,968 | 76% | 3.87 |
| DLC | Improved Controls - HVAC | Other Non-Mfg | HVAC | New | end use | 377,373 | 21% | 11.32 | 10 | \$3,968 | 76% | 3.87 |
| DLC | Infrared Film for Greenhouses | Other Non-Mfg | HVAC | Existing | end use | 377,373 | 11% | 5.99 | 4 | \$8,758 | 5% | 0.65 |
| DLC | Infrared Film for Greenhouses | Other Non-Mfg | HVAC | New | end use | 377,373 | 11% | 5.99 | 4 | \$8,758 | 5% | 0.65 |
| DLC | Outside Air Economizer | Other Non-Mfg | HVAC | Existing | building | 377,373 | 1.1% | 1.06 | 10 | \$1,386,538 | 82% | 0.00 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---------------------------------------|---------------|----------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Outside Air Economizer | Other Non-Mfg | HVAC | New | building | 377,373 | 1.1% | 1.06 | 10 | \$1,386,538 | 82% | 0.00 |
| DLC | Programmable Ventilation Controller | Other Non-Mfg | HVAC | Existing | end use | 377,373 | 0.1% | 0.05 | 10 | \$43 | 80% | 2.55 |
| DLC | Programmable Ventilation Controller | Other Non-Mfg | HVAC | New | end use | 377,373 | 0.1% | 0.05 | 10 | \$43 | 80% | 2.55 |
| DLC | Recommissioning | Other Non-Mfg | HVAC | Existing | end use | 377,373 | 5.0% | 2.71 | 10 | \$517 | 88% | 4.78 |
| DLC | Recommissioning | Other Non-Mfg | HVAC | New | end use | 377,373 | 5.0% | 2.71 | 10 | \$517 | 88% | 4.78 |
| DLC | Room AC (with louvered sides) | Other Non-Mfg | HVAC | Early | unit (ton) | 377,373 | 7.7% | 6.55 | 9 | \$29,578 | 78% | 0.43 |
| DLC | Room AC (with louvered sides) | Other Non-Mfg | HVAC | New | unit (ton) | 377,373 | 2.6% | 2.18 | 9 | \$1,619 | 78% | 1.95 |
| DLC | Room AC (with louvered sides) | Other Non-Mfg | HVAC | ROB | unit (ton) | 377,373 | 2.6% | 2.18 | 9 | \$1,619 | 78% | 1.95 |
| DLC | Variable Refrigerant Flow Heat Pump | Other Non-Mfg | HVAC | New | measure | 377,373 | 0.1% | 0.10 | 13 | \$2,791 | 43% | 0.10 |
| DLC | Variable Refrigerant Flow Heat Pump | Other Non-Mfg | HVAC | ROB | measure | 377,373 | 0.1% | 0.10 | 13 | \$2,791 | 43% | 0.10 |
| DLC | VFD on Cooling Tower Fan | Other Non-Mfg | HVAC | Early | motor | 377,373 | 21% | 23.75 | 15 | \$17,387 | 15% | 2.92 |
| DLC | VFD on Cooling Tower Fan | Other Non-Mfg | HVAC | New | motor | 377,373 | 22% | 23.75 | 15 | \$17,719 | 15% | 2.90 |
| DLC | VFD on Cooling Tower Fan | Other Non-Mfg | HVAC | ROB | motor | 377,373 | 22% | 23.75 | 15 | \$17,719 | 15% | 2.90 |
| DLC | Wall Insualtions (Going upto R 21) | Other Non-Mfg | HVAC | Existing | building | 377,373 | 19% | 18.04 | 15 | \$268,450 | 26% | 0.21 |
| DLC | Wall Insualtions (Going upto R 21) | Other Non-Mfg | HVAC | New | building | 377,373 | 0.6% | 0.58 | 15 | \$205,914 | 94% | 0.01 |
| DLC | Water Source Heat Pump (4 ton) | Other Non-Mfg | HVAC | Early | heat pump | 377,373 | 1.5% | 1.31 | 15 | \$64,447 | 28% | 0.07 |
| DLC | Water Source Heat Pump (4 ton) | Other Non-Mfg | HVAC | New | heat pump | 377,373 | 1.1% | 0.96 | 15 | \$31,410 | 28% | 0.10 |
| DLC | Water Source Heat Pump (4 ton) | Other Non-Mfg | HVAC | ROB | heat pump | 377,373 | 1.1% | 0.96 | 15 | \$31,410 | 28% | 0.10 |
| DLC | Efficient Metal Halide (High Bay) | Other Non-Mfg | Lighting | Early | end use | 213,141 | 42% | 0.00 | 9 | \$33,306 | 53% | 0.73 |
| DLC | Efficient Metal Halide (High Bay) | Other Non-Mfg | Lighting | New | end use | 213,141 | 41% | 0.00 | 13 | \$889,608 | 61% | 0.05 |
| DLC | Efficient Metal Halide (High Bay) | Other Non-Mfg | Lighting | ROB | end use | 213,141 | 41% | 0.00 | 13 | \$679,888 | 61% | 0.06 |
| DLC | Induction (High Bay) | Other Non-Mfg | Lighting | Early | end use | 213,141 | 94% | 0.00 | 13 | \$99,099 | 95% | 0.88 |
| DLC | Induction (High Bay) | Other Non-Mfg | Lighting | New | end use | 213,141 | 94% | 0.00 | 13 | \$92,781 | 95% | 0.93 |
| DLC | Induction (High Bay) | Other Non-Mfg | Lighting | ROB | end use | 213,141 | 94% | 0.00 | 13 | \$70,517 | 95% | 1.18 |
| DLC | LED (High Bay) | Other Non-Mfg | Lighting | Early | end use | 213,141 | 69% | 0.00 | 14 | \$116,654 | 95% | 0.61 |
| DLC | LED (High Bay) | Other Non-Mfg | Lighting | New | end use | 213,141 | 55% | 0.00 | 14 | \$129,483 | 95% | 0.45 |
| DLC | LED (High Bay) | Other Non-Mfg | Lighting | ROB | end use | 213,141 | 59% | 0.00 | 14 | \$85,314 | 95% | 0.71 |
| DLC | Lighting Controls | Other Non-Mfg | Lighting | Existing | end use | 213,141 | 20% | 0.00 | 6 | \$799,039 | 16% | 0.01 |
| DLC | Lighting Controls | Other Non-Mfg | Lighting | New | end use | 213,141 | 12% | 0.00 | 10 | \$1,062,983 | 11% | 0.01 |
| DLC | Linear Fluorescent (High Bay) | Other Non-Mfg | Lighting | Early | end use | 213,141 | 17% | 0.00 | 14 | \$24,388 | 98% | 0.71 |
| DLC | Linear Fluorescent (High Bay) | Other Non-Mfg | Lighting | New | end use | 213,141 | 13% | 0.00 | 14 | \$7,734 | 91% | 1.50 |
| DLC | Linear Fluorescent (High Bay) | Other Non-Mfg | Lighting | ROB | end use | 213,141 | 13% | 0.00 | 14 | \$4,952 | 91% | 2.16 |
| DLC | Metal Halide (High Bay) | Other Non-Mfg | Lighting | Early | end use | 213,141 | 62% | 0.00 | 13 | \$146,521 | 38% | 0.42 |
| DLC | Metal Halide (High Bay) | Other Non-Mfg | Lighting | New | end use | 213,141 | 73% | 0.00 | 13 | \$35,031 | 38% | 1.67 |
| DLC | Metal Halide (High Bay) | Other Non-Mfg | Lighting | ROB | end use | 213,141 | 73% | 0.00 | 13 | \$26,624 | 38% | 2.05 |
| DLC | Screw Base CFL | Other Non-Mfg | Lighting | Early | end use | 213,141 | 80% | 0.00 | 7 | \$57,906 | 17% | 0.54 |
| DLC | Screw Base CFL | Other Non-Mfg | Lighting | New | end use | 213,141 | 73% | 0.00 | 9 | \$47,323 | 18% | 0.85 |
| DLC | Screw Base CFL | Other Non-Mfg | Lighting | ROB | end use | 213,141 | 73% | 0.00 | 9 | \$39,609 | 17% | 0.98 |
| DLC | Screw Base LED | Other Non-Mfg | Lighting | Early | end use | 213,141 | 76% | 0.00 | 9 | \$35,537 | 21% | 1.17 |
| DLC | Screw Base LED | Other Non-Mfg | Lighting | New | end use | 213,141 | 77% | 0.00 | 9 | \$19,797 | 20% | 1.79 |
| DLC | Screw Base LED | Other Non-Mfg | Lighting | ROB | end use | 213,141 | 77% | 0.00 | 9 | \$15,716 | 21% | 2.05 |
| DLC | T8 High Performance Linear Florescent | Other Non-Mfg | Lighting | Early | end use | 213,141 | 36% | 0.00 | 14 | \$20,396 | 71% | 1.59 |
| DLC | T8 High Performance Linear Florescent | Other Non-Mfg | Lighting | New | end use | 213,141 | 26% | 0.00 | 14 | \$7,297 | 76% | 2.67 |
| DLC | T8 High Performance Linear Florescent | Other Non-Mfg | Lighting | ROB | end use | 213,141 | 26% | 0.00 | 14 | \$5,546 | 76% | 3.16 |
| DLC | Automatic Milker Takeoff | Other Non-Mfg | Motors | Early | end use | 34,891 | 3.0% | 0.15 | 15 | \$635 | 11% | 1.03 |
| DLC | Automatic Milker Takeoff | Other Non-Mfg | Motors | New | end use | 34,891 | 3.0% | 0.15 | 15 | \$635 | 11% | 1.03 |
| DLC | Automatic Milker Takeoff | Other Non-Mfg | Motors | ROB | end use | 34,891 | 3.0% | 0.15 | 15 | \$635 | 11% | 1.03 |
| DLC | Enhanced (Ultra-PE) Motor 1-15 HP | Other Non-Mfg | Motors | Early | end use | 34,891 | 0.9% | 0.05 | 15 | \$533 | 68% | 0.40 |
| DLC | Enhanced (Ultra-PE) Motor 1-15 HP | Other Non-Mfg | Motors | New | end use | 34,891 | 0.9% | 0.05 | 15 | \$533 | 68% | 0.40 |
| DLC | Enhanced (Ultra-PE) Motor 1-15 HP | Other Non-Mfg | Motors | ROB | end use | 34,891 | 0.9% | 0.05 | 15 | \$533 | 68% | 0.40 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|---------------|---------|----------|---------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Enhanced (Ultra-PE) Motor 125-200 HP | Other Non-Mfg | Motors | Early | end use | 34,891 | 0.7% | 0.04 | 15 | \$324 | 61% | 0.53 |
| DLC | Enhanced (Ultra-PE) Motor 125-200 HP | Other Non-Mfg | Motors | New | end use | 34,891 | 0.7% | 0.04 | 15 | \$324 | 61% | 0.53 |
| DLC | Enhanced (Ultra-PE) Motor 125-200 HP | Other Non-Mfg | Motors | ROB | end use | 34,891 | 0.8% | 0.04 | 15 | \$324 | 61% | 0.53 |
| DLC | Enhanced (Ultra-PE) Motor 20-40 HP | Other Non-Mfg | Motors | Early | end use | 34,891 | 0.5% | 0.02 | 15 | \$124 | 68% | 0.81 |
| DLC | Enhanced (Ultra-PE) Motor 20-40 HP | Other Non-Mfg | Motors | New | end use | 34,891 | 0.5% | 0.02 | 15 | \$124 | 68% | 0.83 |
| DLC | Enhanced (Ultra-PE) Motor 20-40 HP | Other Non-Mfg | Motors | ROB | end use | 34,891 | 0.5% | 0.02 | 15 | \$124 | 68% | 0.81 |
| DLC | Enhanced (Ultra-PE) Motor 250-500 HP | Other Non-Mfg | Motors | Early | end use | 34,891 | 0.4% | 0.02 | 15 | \$41 | 61% | 1.89 |
| DLC | Enhanced (Ultra-PE) Motor 250-500 HP | Other Non-Mfg | Motors | New | end use | 34,891 | 0.4% | 0.02 | 15 | \$41 | 61% | 1.91 |
| DLC | Enhanced (Ultra-PE) Motor 250-500 HP | Other Non-Mfg | Motors | ROB | end use | 34,891 | 0.4% | 0.02 | 15 | \$41 | 61% | 1.93 |
| DLC | Enhanced (Ultra-PE) Motor 50-100 HP | Other Non-Mfg | Motors | Early | end use | 34,891 | 0.9% | 0.05 | 15 | \$61 | 39% | 2.65 |
| DLC | Enhanced (Ultra-PE) Motor 50-100 HP | Other Non-Mfg | Motors | New | end use | 34,891 | 0.9% | 0.05 | 15 | \$61 | 39% | 2.66 |
| DLC | Enhanced (Ultra-PE) Motor 50-100 HP | Other Non-Mfg | Motors | ROB | end use | 34,891 | 0.9% | 0.05 | 15 | \$61 | 39% | 2.68 |
| DLC | Facility Energy Management | Other Non-Mfg | Motors | Existing | end use | 34,891 | 1.8% | 0.09 | 2 | \$13 | 64% | 1.02 |
| DLC | Facility Energy Management | Other Non-Mfg | Motors | New | end use | 34,891 | 1.8% | 0.09 | 2 | \$13 | 64% | 1.02 |
| DLC | HE Motors | Other Non-Mfg | Motors | Early | end use | 34,891 | 2.0% | 0.10 | 15 | \$208 | 32% | 1.93 |
| DLC | HE Motors | Other Non-Mfg | Motors | New | end use | 34,891 | 2.0% | 0.10 | 15 | \$208 | 32% | 1.93 |
| DLC | HE Motors | Other Non-Mfg | Motors | ROB | end use | 34,891 | 2.0% | 0.10 | 15 | \$208 | 32% | 1.93 |
| DLC | High-Efficiency Ventilation System | Other Non-Mfg | Motors | Early | end use | 34,891 | 5.7% | 0.28 | 10 | \$2,180 | 61% | 0.40 |
| DLC | High-Efficiency Ventilation System | Other Non-Mfg | Motors | New | end use | 34,891 | 5.7% | 0.28 | 10 | \$2,180 | 61% | 0.40 |
| DLC | High-Efficiency Ventilation System | Other Non-Mfg | Motors | ROB | end use | 34,891 | 5.7% | 0.28 | 10 | \$2,180 | 61% | 0.40 |
| DLC | Improved Controls - Motors | Other Non-Mfg | Motors | Existing | end use | 34,891 | 4.0% | 0.20 | 10 | \$152 | 61% | 2.57 |
| DLC | Improved Controls - Motors | Other Non-Mfg | Motors | New | end use | 34,891 | 4.0% | 0.20 | 10 | \$152 | 61% | 2.57 |
| DLC | Motor Management Plan | Other Non-Mfg | Motors | Existing | end use | 34,891 | 2.9% | 0.14 | 10 | \$71 | 61% | 3.29 |
| DLC | Motor Management Plan | Other Non-Mfg | Motors | New | end use | 34,891 | 2.9% | 0.14 | 10 | \$71 | 61% | 3.29 |
| DLC | Motors Other | Other Non-Mfg | Motors | Existing | end use | 34,891 | 1.1% | 0.05 | 15 | \$6.9 | 69% | 7.86 |
| DLC | Motors Other | Other Non-Mfg | Motors | New | end use | 34,891 | 1.1% | 0.05 | 15 | \$6.9 | 69% | 7.86 |
| DLC | Motors: Rewind 101-200 HP | Other Non-Mfg | Motors | Existing | end use | 34,891 | 0.6% | 0.03 | 10 | \$44 | 22% | 1.55 |
| DLC | Motors: Rewind 101-200 HP | Other Non-Mfg | Motors | New | end use | 34,891 | 0.6% | 0.03 | 10 | \$44 | 22% | 1.55 |
| DLC | Motors: Rewind 201-500 HP | Other Non-Mfg | Motors | Existing | end use | 34,891 | 0.5% | 0.03 | 8 | \$28 | 22% | 1.64 |
| DLC | Motors: Rewind 201-500 HP | Other Non-Mfg | Motors | New | end use | 34,891 | 0.5% | 0.03 | 8 | \$28 | 22% | 1.64 |
| DLC | Motors: Rewind 20-50 HP | Other Non-Mfg | Motors | Existing | end use | 34,891 | 1.0% | 0.05 | 11 | \$130 | 35% | 1.22 |
| DLC | Motors: Rewind 20-50 HP | Other Non-Mfg | Motors | New | end use | 34,891 | 1.0% | 0.05 | 11 | \$130 | 35% | 1.22 |
| DLC | Motors: Rewind 500+ HP | Other Non-Mfg | Motors | Existing | end use | 34,891 | 0.6% | 0.03 | 8 | \$20 | 10% | 2.06 |
| DLC | Motors: Rewind 500+ HP | Other Non-Mfg | Motors | New | end use | 34,891 | 0.6% | 0.03 | 8 | \$20 | 10% | 2.06 |
| DLC | Motors: Rewind 51-100 HP | Other Non-Mfg | Motors | Existing | end use | 34,891 | 0.6% | 0.03 | 9 | \$64 | 35% | 1.09 |
| DLC | Motors: Rewind 51-100 HP | Other Non-Mfg | Motors | New | end use | 34,891 | 0.6% | 0.03 | 9 | \$64 | 35% | 1.09 |
| DLC | SIS | Other Non-Mfg | Motors | Existing | end use | 34,891 | 7.5% | 0.37 | 7 | \$2,198 | 11% | 0.32 |
| DLC | SIS | Other Non-Mfg | Motors | New | end use | 34,891 | 7.5% | 0.37 | 7 | \$2,198 | 11% | 0.32 |
| DLC | Switch from Belt drive to Direct Drive | Other Non-Mfg | Motors | Early | end use | 34,891 | 7.5% | 0.37 | 12 | \$560 | 25% | 1.98 |
| DLC | Switch from Belt drive to Direct Drive | Other Non-Mfg | Motors | New | end use | 34,891 | 7.5% | 0.37 | 12 | \$560 | 25% | 1.98 |
| DLC | Switch from Belt drive to Direct Drive | Other Non-Mfg | Motors | ROB | end use | 34,891 | 7.5% | 0.37 | 12 | \$560 | 25% | 1.98 |
| DLC | Synchronous Belts | Other Non-Mfg | Motors | Early | end use | 34,891 | 1.2% | 0.06 | 10 | \$51 | 25% | 2.36 |
| DLC | Synchronous Belts | Other Non-Mfg | Motors | New | end use | 34,891 | 1.2% | 0.06 | 10 | \$51 | 25% | 2.36 |
| DLC | Synchronous Belts | Other Non-Mfg | Motors | ROB | end use | 34,891 | 1.2% | 0.06 | 10 | \$51 | 25% | 2.36 |
| DLC | Variable Speed Drives for Dairy Vacuum Pumps | Other Non-Mfg | Motors | Early | end use | 34,891 | 37% | 1.84 | 15 | \$1,747 | 7% | 3.38 |
| DLC | Variable Speed Drives for Dairy Vacuum Pumps | Other Non-Mfg | Motors | New | end use | 34,891 | 37% | 1.84 | 15 | \$1,747 | 7% | 3.38 |
| DLC | Variable Speed Drives for Dairy Vacuum Pumps | Other Non-Mfg | Motors | ROB | end use | 34,891 | 37% | 1.84 | 15 | \$1,747 | 7% | 3.38 |
| DLC | VFDs on Small Milking Machines | Other Non-Mfg | Motors | Early | end use | 34,891 | 3.2% | 0.16 | 15 | \$744 | 7% | 0.95 |
| DLC | VFDs on Small Milking Machines | Other Non-Mfg | Motors | New | end use | 34,891 | 3.2% | 0.16 | 15 | \$744 | 7% | 0.95 |
| DLC | VFDs on Small Milking Machines | Other Non-Mfg | Motors | ROB | end use | 34,891 | 3.2% | 0.16 | 15 | \$744 | 7% | 0.95 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|------------------------------------|---------------|------------------------|----------|---------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Wood: Replace Pneumatic Conveyor | Other Non-Mfg | Motors | Early | end use | 34,891 | 29% | 1.45 | 10 | \$147 | 11% | 5.46 |
| DLC | Wood: Replace Pneumatic Conveyor | Other Non-Mfg | Motors | New | end use | 34,891 | 29% | 1.45 | 10 | \$147 | 11% | 5.46 |
| DLC | Wood: Replace Pneumatic Conveyor | Other Non-Mfg | Motors | ROB | end use | 34,891 | 29% | 1.45 | 10 | \$147 | 11% | 5.46 |
| DLC | Bldg Improvements | Other Non-Mfg | Other | Existing | end use | 67,053 | 16% | 1.29 | 15 | \$1,462 | 72% | 3.29 |
| DLC | Bldg Improvements | Other Non-Mfg | Other | New | end use | 67,053 | 16% | 1.29 | 15 | \$1,462 | 72% | 3.29 |
| DLC | Block Heater Timer | Other Non-Mfg | Other | Existing | end use | 67,053 | 2.5% | 0.20 | 10 | \$65 | 40% | 4.09 |
| DLC | Block Heater Timer | Other Non-Mfg | Other | New | end use | 67,053 | 2.5% | 0.20 | 10 | \$65 | 40% | 4.09 |
| DLC | Energy Project Management | Other Non-Mfg | Other | Existing | end use | 67,053 | 29% | 2.31 | 11 | \$2,394 | 63% | 2.57 |
| DLC | Energy Project Management | Other Non-Mfg | Other | New | end use | 67,053 | 29% | 2.31 | 11 | \$2,394 | 63% | 2.57 |
| DLC | Facility Energy Management | Other Non-Mfg | Other | Existing | end use | 67,053 | 1.8% | 0.15 | 2 | \$26 | 76% | 0.99 |
| DLC | Facility Energy Management | Other Non-Mfg | Other | New | end use | 67,053 | 1.8% | 0.15 | 2 | \$26 | 76% | 0.99 |
| DLC | Grain bin aeration control systems | Other Non-Mfg | Other | Existing | end use | 67,053 | 2.3% | 0.18 | 15 | \$201 | 24% | 3.32 |
| DLC | Grain bin aeration control systems | Other Non-Mfg | Other | New | end use | 67,053 | 2.3% | 0.18 | 15 | \$201 | 24% | 3.32 |
| DLC | Greenhouse Heat Curtain | Other Non-Mfg | Other | Existing | end use | 67,053 | 17% | 1.34 | 5 | \$512 | 5% | 1.81 |
| DLC | Greenhouse Heat Curtain | Other Non-Mfg | Other | New | end use | 67,053 | 17% | 1.34 | 5 | \$512 | 5% | 1.81 |
| DLC | HE Stock tank | Other Non-Mfg | Other | Early | end use | 67,053 | 3.8% | 0.30 | 10 | \$832 | 14% | 1.12 |
| DLC | HE Stock tank | Other Non-Mfg | Other | New | end use | 67,053 | 3.8% | 0.30 | 10 | \$832 | 14% | 1.12 |
| DLC | HE Stock tank | Other Non-Mfg | Other | ROB | end use | 67,053 | 3.8% | 0.30 | 10 | \$832 | 14% | 1.12 |
| DLC | Integrated Plant Energy Management | Other Non-Mfg | Other | Existing | end use | 67,053 | 50% | 3.99 | 11 | \$6,609 | 48% | 1.86 |
| DLC | Integrated Plant Energy Management | Other Non-Mfg | Other | New | end use | 67,053 | 50% | 3.99 | 11 | \$6,609 | 48% | 1.86 |
| DLC | Livestock Waterers | Other Non-Mfg | Other | Early | end use | 67,053 | 11% | 0.90 | 10 | \$1,979 | 14% | 1.35 |
| DLC | Livestock Waterers | Other Non-Mfg | Other | New | end use | 67,053 | 11% | 0.90 | 10 | \$1,979 | 14% | 1.35 |
| DLC | Livestock Waterers | Other Non-Mfg | Other | ROB | end use | 67,053 | 11% | 0.90 | 10 | \$1,979 | 14% | 1.35 |
| DLC | Plant Energy Management | Other Non-Mfg | Other | Existing | end use | 67,053 | 12% | 0.96 | 10 | \$168 | 55% | 4.91 |
| DLC | Plant Energy Management | Other Non-Mfg | Other | New | end use | 67,053 | 12% | 0.96 | 10 | \$168 | 55% | 4.91 |
| DLC | Transformers | Other Non-Mfg | Other | Early | end use | 67,053 | 1.6% | 0.13 | 15 | \$214 | 34% | 2.52 |
| DLC | Transformers | Other Non-Mfg | Other | New | end use | 67,053 | 1.6% | 0.13 | 15 | \$214 | 34% | 2.50 |
| DLC | Transformers | Other Non-Mfg | Other | ROB | end use | 67,053 | 1.6% | 0.13 | 15 | \$214 | 34% | 2.51 |
| DLC | Air Compressor Demand Reduction | Other Non-Mfg | Process Air Compressor | Existing | end use | 2,894 | 26% | 0.10 | 10 | \$43 | 40% | 3.54 |
| DLC | Air Compressor Demand Reduction | Other Non-Mfg | Process Air Compressor | New | end use | 2,894 | 26% | 0.10 | 10 | \$43 | 40% | 3.54 |
| DLC | Air Compressor Equipment | Other Non-Mfg | Process Air Compressor | Early | end use | 2,894 | 39% | 0.15 | 10 | \$52 | 56% | 3.89 |
| DLC | Air Compressor Equipment | Other Non-Mfg | Process Air Compressor | New | end use | 2,894 | 39% | 0.15 | 10 | \$52 | 56% | 3.89 |
| DLC | Air Compressor Equipment | Other Non-Mfg | Process Air Compressor | ROB | end use | 2,894 | 39% | 0.15 | 10 | \$52 | 56% | 3.89 |
| DLC | Air Compressor Optimization | Other Non-Mfg | Process Air Compressor | Existing | end use | 2,894 | 39% | 0.15 | 10 | \$126 | 42% | 2.51 |
| DLC | Air Compressor Optimization | Other Non-Mfg | Process Air Compressor | New | end use | 2,894 | 39% | 0.15 | 10 | \$126 | 42% | 2.51 |
| DLC | Facility Energy Management | Other Non-Mfg | Process Air Compressor | Existing | end use | 2,894 | 1.8% | 0.01 | 2 | \$1.1 | 50% | 1.00 |
| DLC | Facility Energy Management | Other Non-Mfg | Process Air Compressor | New | end use | 2,894 | 1.8% | 0.01 | 2 | \$1.1 | 50% | 1.00 |
| DLC | HE Compressor motors | Other Non-Mfg | Process Air Compressor | Early | end use | 2,894 | 1.1% | 0.00 | 15 | \$11 | 56% | 1.68 |
| DLC | HE Compressor motors | Other Non-Mfg | Process Air Compressor | New | end use | 2,894 | 1.1% | 0.00 | 15 | \$11 | 56% | 1.67 |
| DLC | HE Compressor motors | Other Non-Mfg | Process Air Compressor | ROB | end use | 2,894 | 1.1% | 0.00 | 15 | \$11 | 56% | 1.66 |
| DLC | Improved Controls - Air Compressor | Other Non-Mfg | Process Air Compressor | Existing | end use | 2,894 | 41% | 0.15 | 10 | \$52 | 19% | 3.98 |
| DLC | Improved Controls - Air Compressor | Other Non-Mfg | Process Air Compressor | New | end use | 2,894 | 41% | 0.15 | 10 | \$52 | 19% | 3.98 |
| DLC | Low Pressure-drop Filters | Other Non-Mfg | Process Air Compressor | Existing | end use | 2,894 | 1.8% | 0.01 | 10 | \$33 | 46% | 0.66 |
| DLC | Low Pressure-drop Filters | Other Non-Mfg | Process Air Compressor | New | end use | 2,894 | 1.8% | 0.01 | 10 | \$33 | 46% | 0.66 |
| DLC | Outside Air Intake | Other Non-Mfg | Process Air Compressor | Existing | end use | 2,894 | 1.4% | 0.01 | 10 | \$19 | 37% | 0.86 |
| DLC | Outside Air Intake | Other Non-Mfg | Process Air Compressor | New | end use | 2,894 | 1.4% | 0.01 | 10 | \$19 | 37% | 0.86 |
| DLC | Receiver Capacity Addition | Other Non-Mfg | Process Air Compressor | Existing | end use | 2,894 | 5.9% | 0.02 | 10 | \$54 | 28% | 1.19 |
| DLC | Receiver Capacity Addition | Other Non-Mfg | Process Air Compressor | New | end use | 2,894 | 5.9% | 0.02 | 10 | \$54 | 28% | 1.19 |
| DLC | Refrigerated Cycling Dryers | Other Non-Mfg | Process Air Compressor | Early | end use | 2,894 | 1.7% | 0.01 | 10 | \$6.6 | 16% | 2.19 |
| DLC | Refrigerated Cycling Dryers | Other Non-Mfg | Process Air Compressor | New | end use | 2,894 | 1.7% | 0.01 | 10 | \$6.6 | 16% | 2.19 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---------------------------------------|---------------|------------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | Refrigerated Cycling Dryers | Other Non-Mfg | Process Air Compressor | ROB | end use | 2,894 | 1.7% | 0.01 | 10 | \$6.6 | 16% | 2.19 |
| DLC | VFD Controlled Compressor | Other Non-Mfg | Process Air Compressor | Early | end use | 2,894 | 24% | 0.09 | 10 | \$285 | 22% | 0.94 |
| DLC | VFD Controlled Compressor | Other Non-Mfg | Process Air Compressor | New | end use | 2,894 | 24% | 0.09 | 10 | \$285 | 22% | 0.94 |
| DLC | VFD Controlled Compressor | Other Non-Mfg | Process Air Compressor | ROB | end use | 2,894 | 24% | 0.09 | 10 | \$285 | 22% | 0.94 |
| DLC | Zero Loss Condensate Drain | Other Non-Mfg | Process Air Compressor | Early | end use | 2,894 | 1.9% | 0.01 | 10 | \$17 | 28% | 1.20 |
| DLC | Zero Loss Condensate Drain | Other Non-Mfg | Process Air Compressor | New | end use | 2,894 | 1.9% | 0.01 | 10 | \$17 | 28% | 1.20 |
| DLC | Zero Loss Condensate Drain | Other Non-Mfg | Process Air Compressor | ROB | end use | 2,894 | 1.9% | 0.01 | 10 | \$17 | 28% | 1.20 |
| DLC | Cooling Tower Optimization | Other Non-Mfg | Process Cooling | Existing | building | 38,363 | 20% | 2.75 | 10 | \$235 | 15% | 6.01 |
| DLC | Equipment: Chillers | Other Non-Mfg | Process Cooling | Early | end use | 38,363 | 18% | 1.43 | 15 | \$1,800 | 39% | 2.28 |
| DLC | Equipment: Chillers | Other Non-Mfg | Process Cooling | New | end use | 38,363 | 18% | 1.43 | 15 | \$1,800 | 39% | 2.28 |
| DLC | Equipment: Chillers | Other Non-Mfg | Process Cooling | ROB | end use | 38,363 | 18% | 1.43 | 15 | \$1,800 | 39% | 2.28 |
| DLC | Facility Energy Management | Other Non-Mfg | Process Cooling | Existing | end use | 38,363 | 1.8% | 0.15 | 2 | \$15 | 50% | 1.14 |
| DLC | Facility Energy Management | Other Non-Mfg | Process Cooling | New | end use | 38,363 | 1.8% | 0.15 | 2 | \$15 | 50% | 1.14 |
| DLC | Improved Controls - Process Cooling | Other Non-Mfg | Process Cooling | Existing | end use | 38,363 | 6.0% | 0.48 | 10 | \$2,026 | 47% | 0.54 |
| DLC | Improved Controls - Process Cooling | Other Non-Mfg | Process Cooling | New | end use | 38,363 | 6.0% | 0.48 | 10 | \$2,026 | 47% | 0.54 |
| DLC | Milk Precooler - Dairy Plate Cooler | Other Non-Mfg | Process Cooling | Early | end use | 38,363 | 3.2% | 0.26 | 15 | \$652 | 8% | 1.28 |
| DLC | Milk Precooler - Dairy Plate Cooler | Other Non-Mfg | Process Cooling | New | end use | 38,363 | 3.2% | 0.26 | 15 | \$652 | 8% | 1.28 |
| DLC | Milk Precooler - Dairy Plate Cooler | Other Non-Mfg | Process Cooling | ROB | end use | 38,363 | 3.2% | 0.26 | 15 | \$652 | 8% | 1.28 |
| DLC | VFD on Cooling Tower Fan | Other Non-Mfg | Process Cooling | Early | motor | 38,363 | 21% | 2.41 | 15 | \$1,767 | 20% | 2.91 |
| DLC | VFD on Cooling Tower Fan | Other Non-Mfg | Process Cooling | New | motor | 38,363 | 22% | 2.41 | 15 | \$1,801 | 20% | 2.89 |
| DLC | VFD on Cooling Tower Fan | Other Non-Mfg | Process Cooling | ROB | motor | 38,363 | 22% | 2.41 | 15 | \$1,801 | 20% | 2.89 |
| DLC | Crate Heating Pads | Other Non-Mfg | Process Heating | Early | end use | 155,406 | 18% | 3.72 | 15 | \$3,949 | 9% | 3.19 |
| DLC | Crate Heating Pads | Other Non-Mfg | Process Heating | New | end use | 155,406 | 18% | 3.72 | 15 | \$3,949 | 9% | 3.19 |
| DLC | Crate Heating Pads | Other Non-Mfg | Process Heating | ROB | end use | 155,406 | 18% | 3.72 | 15 | \$3,949 | 9% | 3.19 |
| DLC | Grain dryers | Other Non-Mfg | Process Heating | Early | end use | 155,406 | 24% | 4.99 | 15 | \$239,824 | 9% | 0.10 |
| DLC | Grain dryers | Other Non-Mfg | Process Heating | New | end use | 155,406 | 24% | 4.99 | 15 | \$239,824 | 9% | 0.10 |
| DLC | Grain dryers | Other Non-Mfg | Process Heating | ROB | end use | 155,406 | 24% | 4.99 | 15 | \$239,824 | 9% | 0.10 |
| DLC | Heat Lamp Setback (Microzone) | Other Non-Mfg | Process Heating | Existing | end use | 155,406 | 0.5% | 0.10 | 15 | \$119 | 4% | 2.86 |
| DLC | Heat Lamp Setback (Microzone) | Other Non-Mfg | Process Heating | New | end use | 155,406 | 0.5% | 0.10 | 15 | \$119 | 4% | 2.86 |
| DLC | Heat Lamp/Heating Pad Controller | Other Non-Mfg | Process Heating | Existing | end use | 155,406 | 1.8% | 0.37 | 15 | \$284 | 4% | 3.93 |
| DLC | Heat Lamp/Heating Pad Controller | Other Non-Mfg | Process Heating | New | end use | 155,406 | 1.8% | 0.37 | 15 | \$284 | 4% | 3.93 |
| DLC | Heat Lamps | Other Non-Mfg | Process Heating | Early | end use | 155,406 | 3.4% | 0.72 | 10 | \$99 | 9% | 5.11 |
| DLC | Heat Lamps | Other Non-Mfg | Process Heating | New | end use | 155,406 | 3.4% | 0.72 | 10 | \$99 | 9% | 5.11 |
| DLC | Heat Lamps | Other Non-Mfg | Process Heating | ROB | end use | 155,406 | 3.4% | 0.72 | 10 | \$99 | 9% | 5.11 |
| DLC | Improved Controls - Process Heating | Other Non-Mfg | Process Heating | Existing | end use | 155,406 | 17% | 3.65 | 10 | \$1,786 | 23% | 3.32 |
| DLC | Improved Controls - Process Heating | Other Non-Mfg | Process Heating | New | end use | 155,406 | 17% | 3.65 | 10 | \$1,786 | 23% | 3.32 |
| DLC | Process Heat O&M | Other Non-Mfg | Process Heating | Existing | end use | 155,406 | 16% | 3.45 | 2 | \$1,079 | 23% | 0.80 |
| DLC | Process Heat O&M | Other Non-Mfg | Process Heating | New | end use | 155,406 | 16% | 3.45 | 2 | \$1,079 | 23% | 0.80 |
| DLC | Facility Energy Management | Other Non-Mfg | Process Other | Existing | end use | 16,778 | 1.8% | 0.04 | 2 | \$6.5 | 73% | 1.02 |
| DLC | Facility Energy Management | Other Non-Mfg | Process Other | New | end use | 16,778 | 1.8% | 0.04 | 2 | \$6.5 | 73% | 1.02 |
| DLC | Adjustable speed drive on compressors | Other Non-Mfg | Process Refrigeration | Early | end use | 19,707 | 12% | 0.34 | 10 | \$364 | 30% | 2.03 |
| DLC | Adjustable speed drive on compressors | Other Non-Mfg | Process Refrigeration | New | end use | 19,707 | 12% | 0.34 | 10 | \$364 | 30% | 2.03 |
| DLC | Adjustable speed drive on compressors | Other Non-Mfg | Process Refrigeration | ROB | end use | 19,707 | 12% | 0.34 | 10 | \$364 | 30% | 2.03 |
| DLC | Cooling Tower Optimization | Other Non-Mfg | Process Refrigeration | Existing | building | 19,707 | 20% | 1.41 | 10 | \$121 | 15% | 6.01 |
| DLC | Optimization of operating parameters | Other Non-Mfg | Process Refrigeration | Existing | end use | 19,707 | 13% | 0.38 | 3 | \$159 | 27% | 1.03 |
| DLC | Optimization of operating parameters | Other Non-Mfg | Process Refrigeration | New | end use | 19,707 | 13% | 0.38 | 3 | \$159 | 27% | 1.03 |
| DLC | Synchronous Belts | Other Non-Mfg | Process Refrigeration | Early | end use | 19,707 | 1.2% | 0.03 | 10 | \$29 | 30% | 2.36 |
| DLC | Synchronous Belts | Other Non-Mfg | Process Refrigeration | New | end use | 19,707 | 1.2% | 0.03 | 10 | \$29 | 30% | 2.36 |
| DLC | Synchronous Belts | Other Non-Mfg | Process Refrigeration | ROB | end use | 19,707 | 1.2% | 0.03 | 10 | \$29 | 30% | 2.36 |
| DLC | VFD on Cooling Tower Fan | Other Non-Mfg | Process Refrigeration | Early | motor | 19,707 | 21% | 1.24 | 15 | \$908 | 20% | 2.91 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|--|----------------|-----------------------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| DLC | VFD on Cooling Tower Fan | Other Non-Mfg | Process Refrigeration | New | motor | 19,707 | 22% | 1.24 | 15 | \$925 | 20% | 2.89 |
| DLC | VFD on Cooling Tower Fan | Other Non-Mfg | Process Refrigeration | ROB | motor | 19,707 | 22% | 1.24 | 15 | \$925 | 20% | 2.89 |
| DLC | Facility Energy Management | Other Non-Mfg | Pumps | Existing | end use | 195,584 | 1.8% | 0.47 | 2 | \$75 | 34% | 1.02 |
| DLC | Facility Energy Management | Other Non-Mfg | Pumps | New | end use | 195,584 | 1.8% | 0.47 | 2 | \$75 | 34% | 1.02 |
| DLC | HE Motors | Other Non-Mfg | Pumps | Early | end use | 195,584 | 2.0% | 0.52 | 15 | \$1,164 | 36% | 1.90 |
| DLC | HE Motors | Other Non-Mfg | Pumps | New | end use | 195,584 | 2.0% | 0.52 | 15 | \$1,164 | 36% | 1.90 |
| DLC | HE Motors | Other Non-Mfg | Pumps | ROB | end use | 195,584 | 2.0% | 0.52 | 15 | \$1,164 | 36% | 1.90 |
| DLC | Motor rewinds | Other Non-Mfg | Pumps | Existing | end use | 195,584 | 0.6% | 0.15 | 9 | \$278 | 6% | 1.30 |
| DLC | Motor rewinds | Other Non-Mfg | Pumps | New | end use | 195,584 | 0.6% | 0.15 | 9 | \$278 | 6% | 1.30 |
| DLC | Synchronous Belts | Other Non-Mfg | Pumps | Early | end use | 195,584 | 1.2% | 0.30 | 10 | \$288 | 30% | 2.32 |
| DLC | Synchronous Belts | Other Non-Mfg | Pumps | New | end use | 195,584 | 1.2% | 0.30 | 10 | \$288 | 30% | 2.32 |
| DLC | Synchronous Belts | Other Non-Mfg | Pumps | ROB | end use | 195,584 | 1.2% | 0.30 | 10 | \$288 | 30% | 2.32 |
| FE-Met Ed | Circulating Fans | Mfg: Chemicals | Fans | Early | end use | 409,477 | 5.0% | 2.44 | 10 | \$2,493 | 68% | 2.35 |
| FE-Met Ed | Circulating Fans | Mfg: Chemicals | Fans | New | end use | 409,477 | 5.0% | 2.44 | 10 | \$2,493 | 68% | 2.35 |
| FE-Met Ed | Circulating Fans | Mfg: Chemicals | Fans | ROB | end use | 409,477 | 5.0% | 2.44 | 10 | \$2,493 | 68% | 2.35 |
| FE-Met Ed | Facility Energy Management | Mfg: Chemicals | Fans | Existing | end use | 409,477 | 1.9% | 0.90 | 2 | \$158 | 77% | 1.21 |
| FE-Met Ed | Facility Energy Management | Mfg: Chemicals | Fans | New | end use | 409,477 | 1.9% | 0.90 | 2 | \$158 | 77% | 1.20 |
| FE-Met Ed | HE Motors | Mfg: Chemicals | Fans | Early | end use | 409,477 | 2.0% | 1.00 | 15 | \$2,438 | 77% | 1.77 |
| FE-Met Ed | HE Motors | Mfg: Chemicals | Fans | New | end use | 409,477 | 2.0% | 1.00 | 15 | \$2,438 | 77% | 1.77 |
| FE-Met Ed | HE Motors | Mfg: Chemicals | Fans | ROB | end use | 409,477 | 2.0% | 1.00 | 15 | \$2,438 | 77% | 1.77 |
| FE-Met Ed | Improved Controls - Fans | Mfg: Chemicals | Fans | Existing | end use | 409,477 | 7.1% | 3.46 | 10 | \$1,588 | 88% | 3.62 |
| FE-Met Ed | Improved Controls - Fans | Mfg: Chemicals | Fans | New | end use | 409,477 | 7.1% | 3.46 | 10 | \$1,588 | 88% | 3.62 |
| FE-Met Ed | Properly Sized Fans | Mfg: Chemicals | Fans | Early | end use | 409,477 | 13% | 6.41 | 10 | \$8,387 | 41% | 2.00 |
| FE-Met Ed | Properly Sized Fans | Mfg: Chemicals | Fans | New | end use | 409,477 | 13% | 6.41 | 10 | \$8,387 | 41% | 2.00 |
| FE-Met Ed | Properly Sized Fans | Mfg: Chemicals | Fans | ROB | end use | 409,477 | 13% | 6.41 | 10 | \$8,387 | 41% | 2.00 |
| FE-Met Ed | Synchronous Belts | Mfg: Chemicals | Fans | Early | end use | 409,477 | 1.2% | 0.57 | 10 | \$603 | 41% | 2.30 |
| FE-Met Ed | Synchronous Belts | Mfg: Chemicals | Fans | New | end use | 409,477 | 1.2% | 0.57 | 10 | \$603 | 41% | 2.30 |
| FE-Met Ed | Synchronous Belts | Mfg: Chemicals | Fans | ROB | end use | 409,477 | 1.2% | 0.57 | 10 | \$603 | 41% | 2.30 |
| FE-Met Ed | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Chemicals | HVAC | Early | unit (ton) | 163,754 | 9.2% | 3.90 | 15 | \$29,830 | 28% | 0.36 |
| FE-Met Ed | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Chemicals | HVAC | New | unit (ton) | 163,754 | 4.1% | 1.75 | 15 | \$7,227 | 28% | 0.64 |
| FE-Met Ed | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Chemicals | HVAC | ROB | unit (ton) | 163,754 | 4.1% | 1.75 | 15 | \$7,227 | 28% | 0.64 |
| FE-Met Ed | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Chemicals | HVAC | Early | unit (ton) | 163,754 | 12% | 5.27 | 15 | \$35,166 | 28% | 0.41 |
| FE-Met Ed | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Chemicals | HVAC | New | unit (ton) | 163,754 | 7.7% | 3.27 | 15 | \$15,222 | 28% | 0.57 |
| FE-Met Ed | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Chemicals | HVAC | ROB | unit (ton) | 163,754 | 7.7% | 3.27 | 15 | \$15,222 | 28% | 0.57 |
| FE-Met Ed | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Chemicals | HVAC | Early | unit (ton) | 163,754 | 15% | 6.47 | 15 | \$40,503 | 29% | 0.43 |
| FE-Met Ed | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Chemicals | HVAC | New | unit (ton) | 163,754 | 11% | 4.59 | 15 | \$23,217 | 29% | 0.53 |
| FE-Met Ed | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Chemicals | HVAC | ROB | unit (ton) | 163,754 | 11% | 4.59 | 15 | \$23,217 | 29% | 0.53 |
| FE-Met Ed | >760k min 10.2 EER Air Conditioner | Mfg: Chemicals | HVAC | Early | unit (ton) | 163,754 | 2.1% | 0.90 | 15 | \$51,947 | 35% | 0.05 |
| FE-Met Ed | >760k min 10.2 EER Air Conditioner | Mfg: Chemicals | HVAC | New | unit (ton) | 163,754 | 2.8% | 1.20 | 15 | \$4,695 | 35% | 0.68 |
| FE-Met Ed | >760k min 10.2 EER Air Conditioner | Mfg: Chemicals | HVAC | ROB | unit (ton) | 163,754 | 2.8% | 1.20 | 15 | \$4,695 | 35% | 0.68 |
| FE-Met Ed | 135-240k min 12 EER Air Conditioner | Mfg: Chemicals | HVAC | Early | unit (ton) | 163,754 | 10% | 4.44 | 15 | \$56,250 | 35% | 0.22 |
| FE-Met Ed | 135-240k min 12 EER Air Conditioner | Mfg: Chemicals | HVAC | New | unit (ton) | 163,754 | 5.8% | 2.45 | 15 | \$6,642 | 35% | 0.95 |
| FE-Met Ed | 135-240k min 12 EER Air Conditioner | Mfg: Chemicals | HVAC | ROB | unit (ton) | 163,754 | 5.8% | 2.45 | 15 | \$6,642 | 35% | 0.95 |
| FE-Met Ed | 240k-760k min 11 EER Air Conditioner | Mfg: Chemicals | HVAC | Early | unit (ton) | 163,754 | 5.2% | 2.21 | 15 | \$51,979 | 35% | 0.12 |
| FE-Met Ed | 240k-760k min 11 EER Air Conditioner | Mfg: Chemicals | HVAC | New | unit (ton) | 163,754 | 5.3% | 2.27 | 15 | \$5,569 | 35% | 1.04 |
| FE-Met Ed | 240k-760k min 11 EER Air Conditioner | Mfg: Chemicals | HVAC | ROB | unit (ton) | 163,754 | 5.3% | 2.27 | 15 | \$5,569 | 35% | 1.04 |
| FE-Met Ed | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Chemicals | HVAC | Early | unit (ton) | 163,754 | 9.7% | 4.12 | 15 | \$57,595 | 35% | 0.20 |
| FE-Met Ed | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Chemicals | HVAC | New | unit (ton) | 163,754 | 3.8% | 1.63 | 15 | \$8,217 | 35% | 0.53 |
| FE-Met Ed | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Chemicals | HVAC | ROB | unit (ton) | 163,754 | 3.8% | 1.63 | 15 | \$8,217 | 35% | 0.53 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Mfg: Chemicals | HVAC | Existing | building | 163,754 | 5.9% | 2.43 | 15 | \$496,150 | 71% | 0.01 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|----------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Mfg: Chemicals | HVAC | New | building | 163,754 | 3.7% | 1.53 | 15 | \$471,604 | 94% | 0.01 |
| FE-Met Ed | Chiller Tuneup/Diagnostics | Mfg: Chemicals | HVAC | Existing | building | 163,754 | 8.0% | 4.80 | 10 | \$418,138 | 59% | 0.02 |
| FE-Met Ed | Chiller Tuneup/Diagnostics | Mfg: Chemicals | HVAC | New | building | 163,754 | 8.0% | 4.81 | 10 | \$418,138 | 59% | 0.02 |
| FE-Met Ed | Cooling Tower Optimization | Mfg: Chemicals | HVAC | Existing | building | 163,754 | 20% | 11.72 | 10 | \$1,004 | 14% | 5.42 |
| FE-Met Ed | Duct Insulation, Add R8 | Mfg: Chemicals | HVAC | Existing | building | 163,754 | 1.5% | 0.52 | 15 | \$1,301 | 18% | 1.20 |
| FE-Met Ed | Duct Insulation, Add R8 | Mfg: Chemicals | HVAC | New | building | 163,754 | 1.5% | 0.52 | 15 | \$1,301 | 9% | 1.20 |
| FE-Met Ed | Ductless Heat Pump | Mfg: Chemicals | HVAC | Early | heat pump | 163,754 | 0.8% | 0.31 | 15 | \$13,006 | 83% | 0.07 |
| FE-Met Ed | Ductless Heat Pump | Mfg: Chemicals | HVAC | New | heat pump | 163,754 | 0.4% | 0.16 | 15 | \$3,777 | 83% | 0.13 |
| FE-Met Ed | Ductless Heat Pump | Mfg: Chemicals | HVAC | ROB | heat pump | 163,754 | 0.4% | 0.16 | 15 | \$3,777 | 83% | 0.13 |
| FE-Met Ed | DX Coil Cleaning | Mfg: Chemicals | HVAC | Existing | building | 163,754 | 13% | 7.51 | 1 | \$1,570 | 73% | 0.52 |
| FE-Met Ed | DX Coil Cleaning | Mfg: Chemicals | HVAC | New | building | 163,754 | 13% | 7.51 | 1 | \$1,570 | 73% | 0.52 |
| FE-Met Ed | Efficient Unit Heating System | Mfg: Chemicals | HVAC | Early | heater | 163,754 | 6.9% | 0.09 | 15 | \$8,821 | 83% | 0.63 |
| FE-Met Ed | Efficient Unit Heating System | Mfg: Chemicals | HVAC | New | heater | 163,754 | 4.0% | 0.05 | 15 | \$6,017 | 83% | 0.53 |
| FE-Met Ed | Efficient Unit Heating System | Mfg: Chemicals | HVAC | ROB | heater | 163,754 | 4.0% | 0.05 | 15 | \$6,017 | 83% | 0.53 |
| FE-Met Ed | Ground Source Heat Pump (Closed Loop) | Mfg: Chemicals | HVAC | Early | heat pump | 163,754 | 1.3% | 0.48 | 15 | \$27,006 | 19% | 0.05 |
| FE-Met Ed | Ground Source Heat Pump (Closed Loop) | Mfg: Chemicals | HVAC | New | heat pump | 163,754 | 1.0% | 0.38 | 15 | \$10,663 | 19% | 0.11 |
| FE-Met Ed | Ground Source Heat Pump (Closed Loop) | Mfg: Chemicals | HVAC | ROB | heat pump | 163,754 | 1.0% | 0.38 | 15 | \$10,663 | 19% | 0.11 |
| FE-Met Ed | Ground Source Heat Pump (Open Loop) | Mfg: Chemicals | HVAC | Early | heat pump | 163,754 | 1.3% | 0.48 | 15 | \$17,296 | 19% | 0.08 |
| FE-Met Ed | Ground Source Heat Pump (Open Loop) | Mfg: Chemicals | HVAC | New | heat pump | 163,754 | 1.0% | 0.38 | 15 | \$367 | 19% | 2.35 |
| FE-Met Ed | Ground Source Heat Pump (Open Loop) | Mfg: Chemicals | HVAC | ROB | heat pump | 163,754 | 1.0% | 0.38 | 15 | \$367 | 19% | 2.35 |
| FE-Met Ed | HE Air Cooled Chiller, 100 Tons | Mfg: Chemicals | HVAC | Early | unit (ton) | 163,754 | 1.5% | 0.54 | 15 | \$192,519 | 89% | 0.01 |
| FE-Met Ed | HE Air Cooled Chiller, 100 Tons | Mfg: Chemicals | HVAC | New | unit (ton) | 163,754 | 0.4% | 0.15 | 15 | \$28,046 | 89% | 0.02 |
| FE-Met Ed | HE Air Cooled Chiller, 100 Tons | Mfg: Chemicals | HVAC | ROB | unit (ton) | 163,754 | 0.4% | 0.15 | 15 | \$28,046 | 89% | 0.02 |
| FE-Met Ed | HE Air Cooled Chiller, 150 Tons | Mfg: Chemicals | HVAC | Early | unit (ton) | 163,754 | 1.5% | 0.54 | 15 | \$166,293 | 89% | 0.01 |
| FE-Met Ed | HE Air Cooled Chiller, 150 Tons | Mfg: Chemicals | HVAC | New | unit (ton) | 163,754 | 0.3% | 0.11 | 15 | \$13,773 | 89% | 0.03 |
| FE-Met Ed | HE Air Cooled Chiller, 150 Tons | Mfg: Chemicals | HVAC | ROB | unit (ton) | 163,754 | 0.3% | 0.11 | 15 | \$13,773 | 89% | 0.03 |
| FE-Met Ed | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Chemicals | HVAC | Early | heat pump | 163,754 | 1.4% | 0.50 | 12 | \$7,050 | 81% | 0.17 |
| FE-Met Ed | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Chemicals | HVAC | Early | heat pump | 163,754 | 1.1% | 0.42 | 12 | \$5,150 | 81% | 0.20 |
| FE-Met Ed | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Chemicals | HVAC | New | heat pump | 163,754 | 1.0% | 0.38 | 12 | \$3,147 | 81% | 0.29 |
| FE-Met Ed | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Chemicals | HVAC | New | heat pump | 163,754 | 0.8% | 0.28 | 12 | \$1,100 | 81% | 0.59 |
| FE-Met Ed | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Chemicals | HVAC | ROB | heat pump | 163,754 | 1.0% | 0.38 | 12 | \$3,147 | 81% | 0.29 |
| FE-Met Ed | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Chemicals | HVAC | ROB | heat pump | 163,754 | 0.8% | 0.28 | 12 | \$1,100 | 81% | 0.59 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Chemicals | HVAC | Early | unit (ton) | 163,754 | 1.6% | 0.59 | 15 | \$15,275 | 89% | 0.12 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Chemicals | HVAC | New | unit (ton) | 163,754 | 0.9% | 0.34 | 15 | \$5,080 | 89% | 0.21 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Chemicals | HVAC | ROB | unit (ton) | 163,754 | 0.9% | 0.34 | 15 | \$5,080 | 89% | 0.21 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Chemicals | HVAC | Early | unit (ton) | 163,754 | 1.4% | 0.52 | 15 | \$14,919 | 89% | 0.11 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Chemicals | HVAC | New | unit (ton) | 163,754 | 1.0% | 0.37 | 15 | \$2,913 | 89% | 0.38 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Chemicals | HVAC | ROB | unit (ton) | 163,754 | 1.4% | 0.52 | 15 | \$2,676 | 89% | 0.58 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Chemicals | HVAC | Early | unit (ton) | 163,754 | 1.4% | 0.52 | 15 | \$17,657 | 89% | 0.09 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Chemicals | HVAC | New | unit (ton) | 163,754 | 0.9% | 0.33 | 15 | \$7,434 | 89% | 0.14 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Chemicals | HVAC | ROB | unit (ton) | 163,754 | 1.4% | 0.52 | 15 | \$6,728 | 89% | 0.24 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Chemicals | HVAC | Early | unit (ton) | 163,754 | 1.4% | 0.52 | 15 | \$17,008 | 89% | 0.10 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Chemicals | HVAC | New | unit (ton) | 163,754 | 0.9% | 0.33 | 15 | \$6,462 | 89% | 0.16 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Chemicals | HVAC | ROB | unit (ton) | 163,754 | 1.4% | 0.52 | 15 | \$5,849 | 89% | 0.27 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Chemicals | HVAC | Early | unit (ton) | 163,754 | 1.8% | 0.67 | 15 | \$18,327 | 89% | 0.11 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Chemicals | HVAC | New | unit (ton) | 163,754 | 0.6% | 0.20 | 15 | \$11,348 | 89% | 0.06 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Chemicals | HVAC | ROB | unit (ton) | 163,754 | 1.8% | 0.67 | 15 | \$8,812 | 89% | 0.24 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Chemicals | HVAC | Early | unit (ton) | 163,754 | 2.2% | 0.80 | 15 | \$16,857 | 89% | 0.15 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Chemicals | HVAC | New | unit (ton) | 163,754 | 0.8% | 0.29 | 15 | \$6,764 | 89% | 0.13 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Chemicals | HVAC | ROB | unit (ton) | 163,754 | 0.8% | 0.29 | 15 | \$6,764 | 89% | 0.13 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|----------------|----------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Chemicals | HVAC | Early | unit (ton) | 163,754 | 2.4% | 0.90 | 15 | \$14,287 | 89% | 0.19 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Chemicals | HVAC | New | unit (ton) | 163,754 | 0.9% | 0.33 | 15 | \$3,595 | 89% | 0.29 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Chemicals | HVAC | ROB | unit (ton) | 163,754 | 2.4% | 0.90 | 15 | \$2,563 | 89% | 1.00 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Chemicals | HVAC | Early | unit (ton) | 163,754 | 1.8% | 0.68 | 15 | \$14,143 | 89% | 0.15 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Chemicals | HVAC | New | unit (ton) | 163,754 | 0.7% | 0.25 | 15 | \$3,960 | 89% | 0.20 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Chemicals | HVAC | ROB | unit (ton) | 163,754 | 1.8% | 0.68 | 15 | \$3,138 | 89% | 0.64 |
| FE-Met Ed | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Chemicals | HVAC | Existing | building | 163,754 | 2.9% | 0.96 | 5 | \$1,737 | 55% | 0.63 |
| FE-Met Ed | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Chemicals | HVAC | New | building | 163,754 | 0.6% | 0.38 | 5 | \$1,042 | 51% | 0.30 |
| FE-Met Ed | Improved Controls - HVAC | Mfg: Chemicals | HVAC | Existing | end use | 163,754 | 21% | 4.91 | 10 | \$1,722 | 76% | 3.87 |
| FE-Met Ed | Improved Controls - HVAC | Mfg: Chemicals | HVAC | New | end use | 163,754 | 21% | 4.91 | 10 | \$1,722 | 76% | 3.87 |
| FE-Met Ed | Outside Air Economizer | Mfg: Chemicals | HVAC | Existing | building | 163,754 | 1.1% | 0.46 | 10 | \$601,664 | 82% | 0.00 |
| FE-Met Ed | Outside Air Economizer | Mfg: Chemicals | HVAC | New | building | 163,754 | 1.1% | 0.46 | 10 | \$601,664 | 82% | 0.00 |
| FE-Met Ed | Recommissioning | Mfg: Chemicals | HVAC | Existing | end use | 163,754 | 5.0% | 1.18 | 10 | \$225 | 88% | 4.78 |
| FE-Met Ed | Recommissioning | Mfg: Chemicals | HVAC | New | end use | 163,754 | 5.0% | 1.18 | 10 | \$225 | 88% | 4.78 |
| FE-Met Ed | Room AC (with louvered sides) | Mfg: Chemicals | HVAC | Early | unit (ton) | 163,754 | 7.7% | 2.84 | 9 | \$12,835 | 78% | 0.43 |
| FE-Met Ed | Room AC (with louvered sides) | Mfg: Chemicals | HVAC | New | unit (ton) | 163,754 | 2.6% | 0.95 | 9 | \$703 | 78% | 1.97 |
| FE-Met Ed | Room AC (with louvered sides) | Mfg: Chemicals | HVAC | ROB | unit (ton) | 163,754 | 2.6% | 0.95 | 9 | \$703 | 78% | 1.97 |
| FE-Met Ed | Variable Refrigerant Flow Heat Pump | Mfg: Chemicals | HVAC | New | measure | 163,754 | 0.1% | 0.04 | 13 | \$1,211 | 43% | 0.09 |
| FE-Met Ed | Variable Refrigerant Flow Heat Pump | Mfg: Chemicals | HVAC | ROB | measure | 163,754 | 0.1% | 0.04 | 13 | \$1,211 | 43% | 0.09 |
| FE-Met Ed | VFD on Cooling Tower Fan | Mfg: Chemicals | HVAC | Early | motor | 163,754 | 21% | 10.30 | 15 | \$7,545 | 15% | 2.65 |
| FE-Met Ed | VFD on Cooling Tower Fan | Mfg: Chemicals | HVAC | New | motor | 163,754 | 22% | 10.30 | 15 | \$7,689 | 15% | 2.63 |
| FE-Met Ed | VFD on Cooling Tower Fan | Mfg: Chemicals | HVAC | ROB | motor | 163,754 | 22% | 10.30 | 15 | \$7,689 | 15% | 2.63 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Mfg: Chemicals | HVAC | Existing | building | 163,754 | 19% | 7.83 | 15 | \$116,489 | 26% | 0.19 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Mfg: Chemicals | HVAC | New | building | 163,754 | 0.6% | 0.25 | 15 | \$89,353 | 94% | 0.01 |
| FE-Met Ed | Water Source Heat Pump (4 ton) | Mfg: Chemicals | HVAC | Early | heat pump | 163,754 | 1.5% | 0.57 | 15 | \$27,966 | 28% | 0.06 |
| FE-Met Ed | Water Source Heat Pump (4 ton) | Mfg: Chemicals | HVAC | New | heat pump | 163,754 | 1.1% | 0.42 | 15 | \$13,630 | 28% | 0.09 |
| FE-Met Ed | Water Source Heat Pump (4 ton) | Mfg: Chemicals | HVAC | ROB | heat pump | 163,754 | 1.1% | 0.42 | 15 | \$13,630 | 28% | 0.09 |
| FE-Met Ed | Efficient Metal Halide (High Bay) | Mfg: Chemicals | Lighting | Early | end use | 95,834 | 42% | 0.00 | 9 | \$14,975 | 53% | 0.81 |
| FE-Met Ed | Efficient Metal Halide (High Bay) | Mfg: Chemicals | Lighting | New | end use | 95,834 | 41% | 0.00 | 13 | \$399,991 | 61% | 0.05 |
| FE-Met Ed | Efficient Metal Halide (High Bay) | Mfg: Chemicals | Lighting | ROB | end use | 95,834 | 41% | 0.00 | 13 | \$305,695 | 61% | 0.06 |
| FE-Met Ed | Induction (High Bay) | Mfg: Chemicals | Lighting | Early | end use | 95,834 | 94% | 0.00 | 13 | \$44,558 | 95% | 0.87 |
| FE-Met Ed | Induction (High Bay) | Mfg: Chemicals | Lighting | New | end use | 95,834 | 94% | 0.00 | 13 | \$41,717 | 95% | 0.92 |
| FE-Met Ed | Induction (High Bay) | Mfg: Chemicals | Lighting | ROB | end use | 95,834 | 94% | 0.00 | 13 | \$31,706 | 95% | 1.16 |
| FE-Met Ed | LED (High Bay) | Mfg: Chemicals | Lighting | Early | end use | 95,834 | 69% | 0.00 | 14 | \$52,451 | 95% | 0.60 |
| FE-Met Ed | LED (High Bay) | Mfg: Chemicals | Lighting | New | end use | 95,834 | 55% | 0.00 | 14 | \$58,219 | 95% | 0.44 |
| FE-Met Ed | LED (High Bay) | Mfg: Chemicals | Lighting | ROB | end use | 95,834 | 59% | 0.00 | 14 | \$38,359 | 95% | 0.69 |
| FE-Met Ed | Lighting Controls | Mfg: Chemicals | Lighting | Existing | end use | 95,834 | 20% | 0.00 | 6 | \$359,269 | 16% | 0.01 |
| FE-Met Ed | Lighting Controls | Mfg: Chemicals | Lighting | New | end use | 95,834 | 12% | 0.00 | 10 | \$477,945 | 11% | 0.01 |
| FE-Met Ed | Linear Fluorescent (High Bay) | Mfg: Chemicals | Lighting | Early | end use | 95,834 | 17% | 0.00 | 14 | \$10,965 | 98% | 0.69 |
| FE-Met Ed | Linear Fluorescent (High Bay) | Mfg: Chemicals | Lighting | New | end use | 95,834 | 13% | 0.00 | 14 | \$3,477 | 91% | 1.47 |
| FE-Met Ed | Linear Fluorescent (High Bay) | Mfg: Chemicals | Lighting | ROB | end use | 95,834 | 13% | 0.00 | 14 | \$2,226 | 91% | 2.12 |
| FE-Met Ed | Metal Halide (High Bay) | Mfg: Chemicals | Lighting | Early | end use | 95,834 | 62% | 0.00 | 13 | \$65,880 | 38% | 0.42 |
| FE-Met Ed | Metal Halide (High Bay) | Mfg: Chemicals | Lighting | New | end use | 95,834 | 73% | 0.00 | 13 | \$15,751 | 38% | 1.65 |
| FE-Met Ed | Metal Halide (High Bay) | Mfg: Chemicals | Lighting | ROB | end use | 95,834 | 73% | 0.00 | 13 | \$11,971 | 38% | 2.02 |
| FE-Met Ed | Screw Base CFL | Mfg: Chemicals | Lighting | Early | end use | 95,834 | 80% | 0.00 | 7 | \$26,036 | 17% | 0.70 |
| FE-Met Ed | Screw Base CFL | Mfg: Chemicals | Lighting | New | end use | 95,834 | 73% | 0.00 | 9 | \$21,278 | 18% | 0.95 |
| FE-Met Ed | Screw Base CFL | Mfg: Chemicals | Lighting | ROB | end use | 95,834 | 73% | 0.00 | 9 | \$17,809 | 17% | 1.10 |
| FE-Met Ed | Screw Base LED | Mfg: Chemicals | Lighting | Early | end use | 95,834 | 76% | 0.00 | 9 | \$15,978 | 21% | 1.28 |
| FE-Met Ed | Screw Base LED | Mfg: Chemicals | Lighting | New | end use | 95,834 | 77% | 0.00 | 9 | \$8,901 | 20% | 1.95 |
| FE-Met Ed | Screw Base LED | Mfg: Chemicals | Lighting | ROB | end use | 95,834 | 77% | 0.00 | 9 | \$7,066 | 21% | 2.25 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|--|----------------|----------|----------|---------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | T8 High Performance Linear Florescent | Mfg: Chemicals | Lighting | Early | end use | 95,834 | 36% | 0.00 | 14 | \$9,171 | 71% | 1.56 |
| FE-Met Ed | T8 High Performance Linear Florescent | Mfg: Chemicals | Lighting | New | end use | 95,834 | 26% | 0.00 | 14 | \$3,281 | 76% | 2.63 |
| FE-Met Ed | T8 High Performance Linear Florescent | Mfg: Chemicals | Lighting | ROB | end use | 95,834 | 26% | 0.00 | 14 | \$2,494 | 76% | 3.11 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Chemicals | Motors | Early | end use | 129,278 | 0.9% | 0.17 | 15 | \$1,975 | 81% | 0.36 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Chemicals | Motors | New | end use | 129,278 | 0.9% | 0.17 | 15 | \$1,975 | 81% | 0.36 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Chemicals | Motors | ROB | end use | 129,278 | 0.9% | 0.17 | 15 | \$1,975 | 81% | 0.36 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Chemicals | Motors | Early | end use | 129,278 | 0.7% | 0.14 | 15 | \$1,199 | 73% | 0.48 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Chemicals | Motors | New | end use | 129,278 | 0.7% | 0.14 | 15 | \$1,199 | 73% | 0.48 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Chemicals | Motors | ROB | end use | 129,278 | 0.7% | 0.14 | 15 | \$1,199 | 73% | 0.48 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Chemicals | Motors | Early | end use | 129,278 | 0.4% | 0.08 | 15 | \$460 | 81% | 0.73 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Chemicals | Motors | New | end use | 129,278 | 0.4% | 0.08 | 15 | \$460 | 81% | 0.73 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Chemicals | Motors | ROB | end use | 129,278 | 0.4% | 0.08 | 15 | \$460 | 81% | 0.73 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Chemicals | Motors | Early | end use | 129,278 | 0.4% | 0.07 | 15 | \$152 | 73% | 1.72 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Chemicals | Motors | New | end use | 129,278 | 0.4% | 0.07 | 15 | \$152 | 73% | 1.72 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Chemicals | Motors | ROB | end use | 129,278 | 0.4% | 0.07 | 15 | \$152 | 73% | 1.72 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Chemicals | Motors | Early | end use | 129,278 | 0.9% | 0.17 | 15 | \$227 | 47% | 2.43 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Chemicals | Motors | New | end use | 129,278 | 0.9% | 0.17 | 15 | \$227 | 47% | 2.43 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Chemicals | Motors | ROB | end use | 129,278 | 0.9% | 0.17 | 15 | \$227 | 47% | 2.43 |
| FE-Met Ed | Facility Energy Management | Mfg: Chemicals | Motors | Existing | end use | 129,278 | 1.9% | 0.34 | 2 | \$50 | 77% | 1.21 |
| FE-Met Ed | Facility Energy Management | Mfg: Chemicals | Motors | New | end use | 129,278 | 1.9% | 0.34 | 2 | \$50 | 77% | 1.21 |
| FE-Met Ed | HE Motors | Mfg: Chemicals | Motors | Early | end use | 129,278 | 2.0% | 0.38 | 15 | \$770 | 38% | 1.76 |
| FE-Met Ed | HE Motors | Mfg: Chemicals | Motors | New | end use | 129,278 | 2.0% | 0.38 | 15 | \$770 | 38% | 1.76 |
| FE-Met Ed | HE Motors | Mfg: Chemicals | Motors | ROB | end use | 129,278 | 2.0% | 0.38 | 15 | \$770 | 38% | 1.76 |
| FE-Met Ed | High-Efficiency Ventilation System | Mfg: Chemicals | Motors | Early | end use | 129,278 | 5.7% | 1.05 | 10 | \$8,079 | 73% | 0.39 |
| FE-Met Ed | High-Efficiency Ventilation System | Mfg: Chemicals | Motors | New | end use | 129,278 | 5.7% | 1.05 | 10 | \$8,079 | 73% | 0.39 |
| FE-Met Ed | High-Efficiency Ventilation System | Mfg: Chemicals | Motors | ROB | end use | 129,278 | 5.7% | 1.05 | 10 | \$8,079 | 73% | 0.39 |
| FE-Met Ed | Improved Controls - Motors | Mfg: Chemicals | Motors | Existing | end use | 129,278 | 4.0% | 0.73 | 10 | \$562 | 73% | 2.51 |
| FE-Met Ed | Improved Controls - Motors | Mfg: Chemicals | Motors | New | end use | 129,278 | 4.0% | 0.73 | 10 | \$562 | 73% | 2.51 |
| FE-Met Ed | Motor Management Plan | Mfg: Chemicals | Motors | Existing | end use | 129,278 | 2.9% | 0.53 | 10 | \$264 | 73% | 3.22 |
| FE-Met Ed | Motor Management Plan | Mfg: Chemicals | Motors | New | end use | 129,278 | 2.9% | 0.53 | 10 | \$264 | 73% | 3.22 |
| FE-Met Ed | Motors Other | Mfg: Chemicals | Motors | Existing | end use | 129,278 | 1.1% | 0.20 | 15 | \$26 | 83% | 7.20 |
| FE-Met Ed | Motors Other | Mfg: Chemicals | Motors | New | end use | 129,278 | 1.1% | 0.20 | 15 | \$26 | 83% | 7.20 |
| FE-Met Ed | Motors: Rewind 101-200 HP | Mfg: Chemicals | Motors | Existing | end use | 129,278 | 0.6% | 0.10 | 10 | \$163 | 27% | 1.53 |
| FE-Met Ed | Motors: Rewind 101-200 HP | Mfg: Chemicals | Motors | New | end use | 129,278 | 0.6% | 0.10 | 10 | \$163 | 27% | 1.54 |
| FE-Met Ed | Motors: Rewind 201-500 HP | Mfg: Chemicals | Motors | Existing | end use | 129,278 | 0.6% | 0.10 | 8 | \$103 | 27% | 1.77 |
| FE-Met Ed | Motors: Rewind 201-500 HP | Mfg: Chemicals | Motors | New | end use | 129,278 | 0.6% | 0.10 | 8 | \$103 | 27% | 1.76 |
| FE-Met Ed | Motors: Rewind 20-50 HP | Mfg: Chemicals | Motors | Existing | end use | 129,278 | 1.0% | 0.19 | 11 | \$480 | 42% | 1.15 |
| FE-Met Ed | Motors: Rewind 20-50 HP | Mfg: Chemicals | Motors | New | end use | 129,278 | 1.0% | 0.19 | 11 | \$480 | 42% | 1.16 |
| FE-Met Ed | Motors: Rewind 500+ HP | Mfg: Chemicals | Motors | Existing | end use | 129,278 | 0.6% | 0.10 | 8 | \$73 | 11% | 2.22 |
| FE-Met Ed | Motors: Rewind 500+ HP | Mfg: Chemicals | Motors | New | end use | 129,278 | 0.6% | 0.10 | 8 | \$73 | 11% | 2.20 |
| FE-Met Ed | Motors: Rewind 51-100 HP | Mfg: Chemicals | Motors | Existing | end use | 129,278 | 0.6% | 0.11 | 9 | \$237 | 42% | 1.12 |
| FE-Met Ed | Motors: Rewind 51-100 HP | Mfg: Chemicals | Motors | New | end use | 129,278 | 0.6% | 0.11 | 9 | \$237 | 42% | 1.12 |
| FE-Met Ed | Switch from Belt drive to Direct Drive | Mfg: Chemicals | Motors | Early | end use | 129,278 | 7.5% | 1.39 | 12 | \$2,074 | 30% | 1.84 |
| FE-Met Ed | Switch from Belt drive to Direct Drive | Mfg: Chemicals | Motors | New | end use | 129,278 | 7.5% | 1.39 | 12 | \$2,074 | 30% | 1.84 |
| FE-Met Ed | Switch from Belt drive to Direct Drive | Mfg: Chemicals | Motors | ROB | end use | 129,278 | 7.5% | 1.39 | 12 | \$2,074 | 30% | 1.84 |
| FE-Met Ed | Synchronous Belts | Mfg: Chemicals | Motors | Early | end use | 129,278 | 1.2% | 0.22 | 10 | \$191 | 30% | 2.30 |
| FE-Met Ed | Synchronous Belts | Mfg: Chemicals | Motors | New | end use | 129,278 | 1.2% | 0.22 | 10 | \$191 | 30% | 2.30 |
| FE-Met Ed | Synchronous Belts | Mfg: Chemicals | Motors | ROB | end use | 129,278 | 1.2% | 0.22 | 10 | \$191 | 30% | 2.30 |
| FE-Met Ed | Bldg Improvements | Mfg: Chemicals | Other | Existing | end use | 44,022 | 16% | 0.85 | 15 | \$960 | 72% | 3.03 |
| FE-Met Ed | Bldg Improvements | Mfg: Chemicals | Other | New | end use | 44,022 | 16% | 0.85 | 15 | \$960 | 72% | 3.03 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|-------------------------------------|----------------|------------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Energy Project Management | Mfg: Chemicals | Other | Existing | end use | 44,022 | 29% | 1.52 | 11 | \$1,571 | 63% | 2.45 |
| FE-Met Ed | Energy Project Management | Mfg: Chemicals | Other | New | end use | 44,022 | 29% | 1.52 | 11 | \$1,571 | 63% | 2.45 |
| FE-Met Ed | Facility Energy Management | Mfg: Chemicals | Other | Existing | end use | 44,022 | 1.9% | 0.10 | 2 | \$17 | 76% | 1.17 |
| FE-Met Ed | Facility Energy Management | Mfg: Chemicals | Other | New | end use | 44,022 | 1.9% | 0.10 | 2 | \$17 | 76% | 1.18 |
| FE-Met Ed | Integrated Plant Energy Management | Mfg: Chemicals | Other | Existing | end use | 44,022 | 50% | 2.62 | 11 | \$4,339 | 48% | 1.78 |
| FE-Met Ed | Integrated Plant Energy Management | Mfg: Chemicals | Other | New | end use | 44,022 | 50% | 2.62 | 11 | \$4,339 | 48% | 1.78 |
| FE-Met Ed | Plant Energy Management | Mfg: Chemicals | Other | Existing | end use | 44,022 | 12% | 0.63 | 10 | \$111 | 55% | 4.84 |
| FE-Met Ed | Plant Energy Management | Mfg: Chemicals | Other | New | end use | 44,022 | 12% | 0.63 | 10 | \$111 | 55% | 4.84 |
| FE-Met Ed | Transformers | Mfg: Chemicals | Other | Early | end use | 44,022 | 1.6% | 0.08 | 15 | \$141 | 34% | 2.27 |
| FE-Met Ed | Transformers | Mfg: Chemicals | Other | New | end use | 44,022 | 1.6% | 0.08 | 15 | \$141 | 34% | 2.27 |
| FE-Met Ed | Transformers | Mfg: Chemicals | Other | ROB | end use | 44,022 | 1.6% | 0.08 | 15 | \$141 | 34% | 2.27 |
| FE-Met Ed | Air Compressor Demand Reduction | Mfg: Chemicals | Process Air Compressor | Existing | end use | 1,556 | 26% | 0.05 | 10 | \$23 | 52% | 3.47 |
| FE-Met Ed | Air Compressor Demand Reduction | Mfg: Chemicals | Process Air Compressor | New | end use | 1,556 | 26% | 0.05 | 10 | \$23 | 52% | 3.47 |
| FE-Met Ed | Facility Energy Management | Mfg: Chemicals | Process Air Compressor | Existing | end use | 1,556 | 2.0% | 0.00 | 2 | \$0.6 | 66% | 1.19 |
| FE-Met Ed | Facility Energy Management | Mfg: Chemicals | Process Air Compressor | New | end use | 1,556 | 1.9% | 0.00 | 2 | \$0.6 | 66% | 1.19 |
| FE-Met Ed | HE Compressor motors | Mfg: Chemicals | Process Air Compressor | Early | end use | 1,556 | 1.1% | 0.00 | 15 | \$5.9 | 73% | 1.52 |
| FE-Met Ed | HE Compressor motors | Mfg: Chemicals | Process Air Compressor | New | end use | 1,556 | 1.1% | 0.00 | 15 | \$5.9 | 73% | 1.52 |
| FE-Met Ed | HE Compressor motors | Mfg: Chemicals | Process Air Compressor | ROB | end use | 1,556 | 1.1% | 0.00 | 15 | \$5.9 | 73% | 1.52 |
| FE-Met Ed | Improved Controls - Air Compressor | Mfg: Chemicals | Process Air Compressor | Existing | end use | 1,556 | 41% | 0.08 | 10 | \$28 | 25% | 3.91 |
| FE-Met Ed | Improved Controls - Air Compressor | Mfg: Chemicals | Process Air Compressor | New | end use | 1,556 | 41% | 0.08 | 10 | \$28 | 25% | 3.91 |
| FE-Met Ed | Low Pressure-drop Filters | Mfg: Chemicals | Process Air Compressor | Existing | end use | 1,556 | 1.9% | 0.00 | 10 | \$18 | 61% | 0.65 |
| FE-Met Ed | Low Pressure-drop Filters | Mfg: Chemicals | Process Air Compressor | New | end use | 1,556 | 1.8% | 0.00 | 10 | \$18 | 61% | 0.65 |
| FE-Met Ed | Outside Air Intake | Mfg: Chemicals | Process Air Compressor | Existing | end use | 1,556 | 1.4% | 0.00 | 10 | \$10 | 48% | 0.85 |
| FE-Met Ed | Outside Air Intake | Mfg: Chemicals | Process Air Compressor | New | end use | 1,556 | 1.4% | 0.00 | 10 | \$10 | 48% | 0.85 |
| FE-Met Ed | Receiver Capacity Addition | Mfg: Chemicals | Process Air Compressor | Existing | end use | 1,556 | 5.9% | 0.01 | 10 | \$29 | 36% | 1.17 |
| FE-Met Ed | Receiver Capacity Addition | Mfg: Chemicals | Process Air Compressor | New | end use | 1,556 | 5.9% | 0.01 | 10 | \$29 | 36% | 1.17 |
| FE-Met Ed | Refrigerated Cycling Dryers | Mfg: Chemicals | Process Air Compressor | Early | end use | 1,556 | 1.7% | 0.00 | 10 | \$3.6 | 21% | 2.14 |
| FE-Met Ed | Refrigerated Cycling Dryers | Mfg: Chemicals | Process Air Compressor | New | end use | 1,556 | 1.7% | 0.00 | 10 | \$3.6 | 21% | 2.14 |
| FE-Met Ed | Refrigerated Cycling Dryers | Mfg: Chemicals | Process Air Compressor | ROB | end use | 1,556 | 1.7% | 0.00 | 10 | \$3.6 | 21% | 2.14 |
| FE-Met Ed | VFD Controlled Compressor | Mfg: Chemicals | Process Air Compressor | Early | end use | 1,556 | 24% | 0.05 | 10 | \$153 | 28% | 0.92 |
| FE-Met Ed | VFD Controlled Compressor | Mfg: Chemicals | Process Air Compressor | New | end use | 1,556 | 24% | 0.05 | 10 | \$153 | 28% | 0.92 |
| FE-Met Ed | VFD Controlled Compressor | Mfg: Chemicals | Process Air Compressor | ROB | end use | 1,556 | 24% | 0.05 | 10 | \$153 | 28% | 0.92 |
| FE-Met Ed | Zero Loss Condensate Drain | Mfg: Chemicals | Process Air Compressor | Early | end use | 1,556 | 1.8% | 0.00 | 10 | \$8.9 | 36% | 1.14 |
| FE-Met Ed | Zero Loss Condensate Drain | Mfg: Chemicals | Process Air Compressor | New | end use | 1,556 | 1.8% | 0.00 | 10 | \$8.9 | 36% | 1.14 |
| FE-Met Ed | Zero Loss Condensate Drain | Mfg: Chemicals | Process Air Compressor | ROB | end use | 1,556 | 1.8% | 0.00 | 10 | \$8.9 | 36% | 1.14 |
| FE-Met Ed | Clean Room: Change Filter Strategy | Mfg: Chemicals | Process Cooling | Existing | end use | 127,441 | 40% | 10.63 | 1 | \$331 | 13% | 0.83 |
| FE-Met Ed | Clean Room: Change Filter Strategy | Mfg: Chemicals | Process Cooling | New | end use | 127,441 | 40% | 10.63 | 1 | \$331 | 13% | 0.83 |
| FE-Met Ed | Clean Room: Chiller Optimize | Mfg: Chemicals | Process Cooling | Existing | end use | 127,441 | 15% | 3.94 | 10 | \$1,538 | 21% | 3.16 |
| FE-Met Ed | Clean Room: Chiller Optimize | Mfg: Chemicals | Process Cooling | New | end use | 127,441 | 15% | 3.94 | 10 | \$1,538 | 21% | 3.16 |
| FE-Met Ed | Clean Room: Clean Room HVAC | Mfg: Chemicals | Process Cooling | Existing | end use | 127,441 | 9.0% | 2.39 | 15 | \$1,857 | 31% | 2.89 |
| FE-Met Ed | Clean Room: Clean Room HVAC | Mfg: Chemicals | Process Cooling | New | end use | 127,441 | 9.0% | 2.39 | 15 | \$1,857 | 31% | 2.89 |
| FE-Met Ed | Cooling Tower Optimization | Mfg: Chemicals | Process Cooling | Existing | building | 127,441 | 20% | 9.12 | 10 | \$782 | 23% | 5.47 |
| FE-Met Ed | Equipment: Chillers | Mfg: Chemicals | Process Cooling | Early | end use | 127,441 | 18% | 4.75 | 15 | \$5,981 | 39% | 2.01 |
| FE-Met Ed | Equipment: Chillers | Mfg: Chemicals | Process Cooling | New | end use | 127,441 | 18% | 4.75 | 15 | \$5,981 | 39% | 2.02 |
| FE-Met Ed | Equipment: Chillers | Mfg: Chemicals | Process Cooling | ROB | end use | 127,441 | 18% | 4.75 | 15 | \$5,981 | 39% | 2.02 |
| FE-Met Ed | Facility Energy Management | Mfg: Chemicals | Process Cooling | Existing | end use | 127,441 | 1.9% | 0.49 | 2 | \$49 | 50% | 1.27 |
| FE-Met Ed | Facility Energy Management | Mfg: Chemicals | Process Cooling | New | end use | 127,441 | 1.9% | 0.49 | 2 | \$49 | 50% | 1.27 |
| FE-Met Ed | Improved Controls - Process Cooling | Mfg: Chemicals | Process Cooling | Existing | end use | 127,441 | 6.0% | 1.59 | 10 | \$6,729 | 47% | 0.50 |
| FE-Met Ed | Improved Controls - Process Cooling | Mfg: Chemicals | Process Cooling | New | end use | 127,441 | 6.0% | 1.59 | 10 | \$6,729 | 47% | 0.50 |
| FE-Met Ed | VFD on Cooling Tower Fan | Mfg: Chemicals | Process Cooling | Early | motor | 127,441 | 21% | 8.02 | 15 | \$5,872 | 24% | 2.54 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---------------------------------------|------------------|-----------------------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | VFD on Cooling Tower Fan | Mfg: Chemicals | Process Cooling | New | motor | 127,441 | 22% | 8.02 | 15 | \$5,984 | 24% | 2.53 |
| FE-Met Ed | VFD on Cooling Tower Fan | Mfg: Chemicals | Process Cooling | ROB | motor | 127,441 | 22% | 8.02 | 15 | \$5,984 | 24% | 2.53 |
| FE-Met Ed | Improved Controls - Process Heating | Mfg: Chemicals | Process Heating | Existing | end use | 96,837 | 17% | 2.28 | 10 | \$1,113 | 77% | 3.24 |
| FE-Met Ed | Improved Controls - Process Heating | Mfg: Chemicals | Process Heating | New | end use | 96,837 | 17% | 2.28 | 10 | \$1,113 | 77% | 3.24 |
| FE-Met Ed | Process Heat O&M | Mfg: Chemicals | Process Heating | Existing | end use | 96,837 | 16% | 2.15 | 2 | \$672 | 77% | 0.95 |
| FE-Met Ed | Process Heat O&M | Mfg: Chemicals | Process Heating | New | end use | 96,837 | 16% | 2.15 | 2 | \$672 | 77% | 0.95 |
| FE-Met Ed | Facility Energy Management | Mfg: Chemicals | Process Other | Existing | end use | 392,853 | 1.8% | 1.02 | 2 | \$151 | 73% | 1.18 |
| FE-Met Ed | Facility Energy Management | Mfg: Chemicals | Process Other | New | end use | 392,853 | 1.9% | 1.02 | 2 | \$151 | 73% | 1.19 |
| FE-Met Ed | Adjustable speed drive on compressors | Mfg: Chemicals | Process Refrigeration | Early | end use | 65,466 | 12% | 1.12 | 10 | \$1,211 | 77% | 1.99 |
| FE-Met Ed | Adjustable speed drive on compressors | Mfg: Chemicals | Process Refrigeration | New | end use | 65,466 | 12% | 1.12 | 10 | \$1,211 | 77% | 1.99 |
| FE-Met Ed | Adjustable speed drive on compressors | Mfg: Chemicals | Process Refrigeration | ROB | end use | 65,466 | 12% | 1.12 | 10 | \$1,211 | 77% | 1.99 |
| FE-Met Ed | Cooling Tower Optimization | Mfg: Chemicals | Process Refrigeration | Existing | building | 65,466 | 20% | 4.69 | 10 | \$401 | 23% | 5.47 |
| FE-Met Ed | Optimization of operating parameters | Mfg: Chemicals | Process Refrigeration | Existing | end use | 65,466 | 13% | 1.25 | 3 | \$529 | 69% | 1.20 |
| FE-Met Ed | Optimization of operating parameters | Mfg: Chemicals | Process Refrigeration | New | end use | 65,466 | 13% | 1.25 | 3 | \$529 | 69% | 1.20 |
| FE-Met Ed | Synchronous Belts | Mfg: Chemicals | Process Refrigeration | Early | end use | 65,466 | 1.2% | 0.11 | 10 | \$96 | 77% | 2.31 |
| FE-Met Ed | Synchronous Belts | Mfg: Chemicals | Process Refrigeration | New | end use | 65,466 | 1.2% | 0.11 | 10 | \$96 | 77% | 2.31 |
| FE-Met Ed | Synchronous Belts | Mfg: Chemicals | Process Refrigeration | ROB | end use | 65,466 | 1.2% | 0.11 | 10 | \$96 | 77% | 2.31 |
| FE-Met Ed | VFD on Cooling Tower Fan | Mfg: Chemicals | Process Refrigeration | Early | motor | 65,466 | 21% | 4.12 | 15 | \$3,016 | 24% | 2.54 |
| FE-Met Ed | VFD on Cooling Tower Fan | Mfg: Chemicals | Process Refrigeration | New | motor | 65,466 | 22% | 4.12 | 15 | \$3,074 | 24% | 2.53 |
| FE-Met Ed | VFD on Cooling Tower Fan | Mfg: Chemicals | Process Refrigeration | ROB | motor | 65,466 | 22% | 4.12 | 15 | \$3,074 | 24% | 2.53 |
| FE-Met Ed | Facility Energy Management | Mfg: Chemicals | Pumps | Existing | end use | 724,674 | 1.9% | 1.74 | 2 | \$279 | 69% | 1.22 |
| FE-Met Ed | Facility Energy Management | Mfg: Chemicals | Pumps | New | end use | 724,674 | 1.9% | 1.74 | 2 | \$279 | 69% | 1.22 |
| FE-Met Ed | HE Motors | Mfg: Chemicals | Pumps | Early | end use | 724,674 | 2.0% | 1.93 | 15 | \$4,314 | 73% | 1.74 |
| FE-Met Ed | HE Motors | Mfg: Chemicals | Pumps | New | end use | 724,674 | 2.0% | 1.93 | 15 | \$4,314 | 73% | 1.74 |
| FE-Met Ed | HE Motors | Mfg: Chemicals | Pumps | ROB | end use | 724,674 | 2.0% | 1.93 | 15 | \$4,314 | 73% | 1.74 |
| FE-Met Ed | Motor rewinds | Mfg: Chemicals | Pumps | Existing | end use | 724,674 | 0.6% | 0.56 | 9 | \$1,031 | 11% | 1.37 |
| FE-Met Ed | Motor rewinds | Mfg: Chemicals | Pumps | New | end use | 724,674 | 0.6% | 0.56 | 9 | \$1,031 | 11% | 1.36 |
| FE-Met Ed | Pump Equipment Upgrade | Mfg: Chemicals | Pumps | Early | end use | 724,674 | 20% | 18.86 | 12 | \$18,117 | 81% | 2.64 |
| FE-Met Ed | Pump Equipment Upgrade | Mfg: Chemicals | Pumps | New | end use | 724,674 | 20% | 18.86 | 12 | \$18,117 | 81% | 2.64 |
| FE-Met Ed | Pump Equipment Upgrade | Mfg: Chemicals | Pumps | ROB | end use | 724,674 | 20% | 18.86 | 12 | \$18,117 | 81% | 2.64 |
| FE-Met Ed | Pump System Optimization | Mfg: Chemicals | Pumps | Existing | end use | 724,674 | 8.7% | 8.20 | 12 | \$13,268 | 38% | 1.88 |
| FE-Met Ed | Pump System Optimization | Mfg: Chemicals | Pumps | New | end use | 724,674 | 8.7% | 8.20 | 12 | \$13,268 | 38% | 1.88 |
| FE-Met Ed | Synchronous Belts | Mfg: Chemicals | Pumps | Early | end use | 724,674 | 1.2% | 1.10 | 10 | \$1,068 | 61% | 2.27 |
| FE-Met Ed | Synchronous Belts | Mfg: Chemicals | Pumps | New | end use | 724,674 | 1.2% | 1.10 | 10 | \$1,068 | 61% | 2.27 |
| FE-Met Ed | Synchronous Belts | Mfg: Chemicals | Pumps | ROB | end use | 724,674 | 1.2% | 1.10 | 10 | \$1,068 | 61% | 2.27 |
| FE-Met Ed | Circulating Fans | Mfg: Comp & Elec | Fans | Early | end use | 172,914 | 5.0% | 1.03 | 10 | \$1,053 | 68% | 2.35 |
| FE-Met Ed | Circulating Fans | Mfg: Comp & Elec | Fans | New | end use | 172,914 | 5.0% | 1.03 | 10 | \$1,053 | 68% | 2.35 |
| FE-Met Ed | Circulating Fans | Mfg: Comp & Elec | Fans | ROB | end use | 172,914 | 5.0% | 1.03 | 10 | \$1,053 | 68% | 2.35 |
| FE-Met Ed | Facility Energy Management | Mfg: Comp & Elec | Fans | Existing | end use | 172,914 | 1.9% | 0.38 | 2 | \$67 | 77% | 1.21 |
| FE-Met Ed | Facility Energy Management | Mfg: Comp & Elec | Fans | New | end use | 172,914 | 1.9% | 0.38 | 2 | \$67 | 77% | 1.21 |
| FE-Met Ed | HE Motors | Mfg: Comp & Elec | Fans | Early | end use | 172,914 | 2.0% | 0.42 | 15 | \$1,029 | 77% | 1.77 |
| FE-Met Ed | HE Motors | Mfg: Comp & Elec | Fans | New | end use | 172,914 | 2.0% | 0.42 | 15 | \$1,029 | 77% | 1.77 |
| FE-Met Ed | HE Motors | Mfg: Comp & Elec | Fans | ROB | end use | 172,914 | 2.0% | 0.42 | 15 | \$1,029 | 77% | 1.77 |
| FE-Met Ed | Improved Controls - Fans | Mfg: Comp & Elec | Fans | Existing | end use | 172,914 | 7.1% | 1.46 | 10 | \$670 | 88% | 3.62 |
| FE-Met Ed | Improved Controls - Fans | Mfg: Comp & Elec | Fans | New | end use | 172,914 | 7.1% | 1.46 | 10 | \$670 | 88% | 3.62 |
| FE-Met Ed | Properly Sized Fans | Mfg: Comp & Elec | Fans | Early | end use | 172,914 | 13% | 2.71 | 10 | \$3,541 | 41% | 2.00 |
| FE-Met Ed | Properly Sized Fans | Mfg: Comp & Elec | Fans | New | end use | 172,914 | 13% | 2.71 | 10 | \$3,541 | 41% | 2.00 |
| FE-Met Ed | Properly Sized Fans | Mfg: Comp & Elec | Fans | ROB | end use | 172,914 | 13% | 2.71 | 10 | \$3,541 | 41% | 2.00 |
| FE-Met Ed | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 672,883 | 9.2% | 16.01 | 15 | \$122,574 | 28% | 0.36 |
| FE-Met Ed | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Comp & Elec | HVAC | New | unit (ton) | 672,883 | 4.1% | 7.19 | 15 | \$29,697 | 28% | 0.64 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|------------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 672,883 | 4.1% | 7.19 | 15 | \$29,697 | 28% | 0.64 |
| FE-Met Ed | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 672,883 | 12% | 21.65 | 15 | \$144,502 | 28% | 0.41 |
| FE-Met Ed | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Comp & Elec | HVAC | New | unit (ton) | 672,883 | 7.7% | 13.42 | 15 | \$62,549 | 28% | 0.57 |
| FE-Met Ed | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 672,883 | 7.7% | 13.42 | 15 | \$62,549 | 28% | 0.57 |
| FE-Met Ed | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 672,883 | 15% | 26.59 | 15 | \$166,429 | 29% | 0.43 |
| FE-Met Ed | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Comp & Elec | HVAC | New | unit (ton) | 672,883 | 11% | 18.88 | 15 | \$95,400 | 29% | 0.53 |
| FE-Met Ed | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 672,883 | 11% | 18.88 | 15 | \$95,400 | 29% | 0.53 |
| FE-Met Ed | >760k min 10.2 EER Air Conditioner | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 672,883 | 2.1% | 3.71 | 15 | \$213,454 | 35% | 0.05 |
| FE-Met Ed | >760k min 10.2 EER Air Conditioner | Mfg: Comp & Elec | HVAC | New | unit (ton) | 672,883 | 2.8% | 4.94 | 15 | \$19,292 | 35% | 0.68 |
| FE-Met Ed | >760k min 10.2 EER Air Conditioner | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 672,883 | 2.8% | 4.94 | 15 | \$19,292 | 35% | 0.68 |
| FE-Met Ed | 135-240k min 12 EER Air Conditioner | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 672,883 | 10% | 18.25 | 15 | \$231,137 | 35% | 0.22 |
| FE-Met Ed | 135-240k min 12 EER Air Conditioner | Mfg: Comp & Elec | HVAC | New | unit (ton) | 672,883 | 5.8% | 10.07 | 15 | \$27,292 | 35% | 0.95 |
| FE-Met Ed | 135-240k min 12 EER Air Conditioner | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 672,883 | 5.8% | 10.07 | 15 | \$27,292 | 35% | 0.95 |
| FE-Met Ed | 240k-760k min 11 EER Air Conditioner | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 672,883 | 5.2% | 9.09 | 15 | \$213,588 | 35% | 0.12 |
| FE-Met Ed | 240k-760k min 11 EER Air Conditioner | Mfg: Comp & Elec | HVAC | New | unit (ton) | 672,883 | 5.3% | 9.32 | 15 | \$22,883 | 35% | 1.04 |
| FE-Met Ed | 240k-760k min 11 EER Air Conditioner | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 672,883 | 5.3% | 9.32 | 15 | \$22,883 | 35% | 1.04 |
| FE-Met Ed | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 672,883 | 9.7% | 16.93 | 15 | \$236,665 | 35% | 0.20 |
| FE-Met Ed | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Comp & Elec | HVAC | New | unit (ton) | 672,883 | 3.8% | 6.71 | 15 | \$33,766 | 35% | 0.53 |
| FE-Met Ed | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 672,883 | 3.8% | 6.71 | 15 | \$33,766 | 35% | 0.53 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Mfg: Comp & Elec | HVAC | Existing | building | 672,883 | 5.9% | 9.99 | 15 | \$2,038,728 | 71% | 0.01 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Mfg: Comp & Elec | HVAC | New | building | 672,883 | 3.7% | 6.27 | 15 | \$1,937,868 | 94% | 0.01 |
| FE-Met Ed | Chiller Tuneup/Diagnostics | Mfg: Comp & Elec | HVAC | Existing | building | 672,883 | 8.0% | 19.74 | 10 | \$1,718,171 | 59% | 0.02 |
| FE-Met Ed | Chiller Tuneup/Diagnostics | Mfg: Comp & Elec | HVAC | New | building | 672,883 | 8.0% | 19.77 | 10 | \$1,718,171 | 59% | 0.02 |
| FE-Met Ed | Cooling Tower Optimization | Mfg: Comp & Elec | HVAC | Existing | building | 672,883 | 20% | 48.17 | 10 | \$4,126 | 14% | 5.42 |
| FE-Met Ed | Duct Insulation, Add R8 | Mfg: Comp & Elec | HVAC | Existing | building | 672,883 | 1.5% | 2.15 | 15 | \$5,345 | 18% | 1.20 |
| FE-Met Ed | Duct Insulation, Add R8 | Mfg: Comp & Elec | HVAC | New | building | 672,883 | 1.5% | 2.15 | 15 | \$5,345 | 9% | 1.20 |
| FE-Met Ed | Ductless Heat Pump | Mfg: Comp & Elec | HVAC | Early | heat pump | 672,883 | 0.8% | 1.26 | 15 | \$53,443 | 83% | 0.07 |
| FE-Met Ed | Ductless Heat Pump | Mfg: Comp & Elec | HVAC | New | heat pump | 672,883 | 0.4% | 0.66 | 15 | \$15,520 | 83% | 0.13 |
| FE-Met Ed | Ductless Heat Pump | Mfg: Comp & Elec | HVAC | ROB | heat pump | 672,883 | 0.4% | 0.66 | 15 | \$15,520 | 83% | 0.13 |
| FE-Met Ed | DX Coil Cleaning | Mfg: Comp & Elec | HVAC | Existing | building | 672,883 | 13% | 30.87 | 1 | \$6,449 | 73% | 0.52 |
| FE-Met Ed | DX Coil Cleaning | Mfg: Comp & Elec | HVAC | New | building | 672,883 | 13% | 30.86 | 1 | \$6,449 | 73% | 0.52 |
| FE-Met Ed | Efficient Unit Heating System | Mfg: Comp & Elec | HVAC | Early | heater | 672,883 | 6.9% | 0.39 | 15 | \$36,246 | 83% | 0.63 |
| FE-Met Ed | Efficient Unit Heating System | Mfg: Comp & Elec | HVAC | New | heater | 672,883 | 4.0% | 0.22 | 15 | \$24,724 | 83% | 0.53 |
| FE-Met Ed | Efficient Unit Heating System | Mfg: Comp & Elec | HVAC | ROB | heater | 672,883 | 4.0% | 0.22 | 15 | \$24,724 | 83% | 0.53 |
| FE-Met Ed | Ground Source Heat Pump (Closed Loop) | Mfg: Comp & Elec | HVAC | Early | heat pump | 672,883 | 1.3% | 1.96 | 15 | \$110,969 | 19% | 0.05 |
| FE-Met Ed | Ground Source Heat Pump (Closed Loop) | Mfg: Comp & Elec | HVAC | New | heat pump | 672,883 | 1.0% | 1.55 | 15 | \$43,815 | 19% | 0.11 |
| FE-Met Ed | Ground Source Heat Pump (Closed Loop) | Mfg: Comp & Elec | HVAC | ROB | heat pump | 672,883 | 1.0% | 1.55 | 15 | \$43,815 | 19% | 0.11 |
| FE-Met Ed | Ground Source Heat Pump (Open Loop) | Mfg: Comp & Elec | HVAC | Early | heat pump | 672,883 | 1.3% | 1.96 | 15 | \$71,071 | 19% | 0.08 |
| FE-Met Ed | Ground Source Heat Pump (Open Loop) | Mfg: Comp & Elec | HVAC | New | heat pump | 672,883 | 1.0% | 1.55 | 15 | \$1,507 | 19% | 2.35 |
| FE-Met Ed | Ground Source Heat Pump (Open Loop) | Mfg: Comp & Elec | HVAC | ROB | heat pump | 672,883 | 1.0% | 1.55 | 15 | \$1,507 | 19% | 2.35 |
| FE-Met Ed | HE Air Cooled Chiller, 100 Tons | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 672,883 | 1.5% | 2.23 | 15 | \$791,078 | 89% | 0.01 |
| FE-Met Ed | HE Air Cooled Chiller, 100 Tons | Mfg: Comp & Elec | HVAC | New | unit (ton) | 672,883 | 0.4% | 0.63 | 15 | \$115,246 | 89% | 0.02 |
| FE-Met Ed | HE Air Cooled Chiller, 100 Tons | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 672,883 | 0.4% | 0.63 | 15 | \$115,246 | 89% | 0.02 |
| FE-Met Ed | HE Air Cooled Chiller, 150 Tons | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 672,883 | 1.5% | 2.20 | 15 | \$683,315 | 89% | 0.01 |
| FE-Met Ed | HE Air Cooled Chiller, 150 Tons | Mfg: Comp & Elec | HVAC | New | unit (ton) | 672,883 | 0.3% | 0.46 | 15 | \$56,597 | 89% | 0.03 |
| FE-Met Ed | HE Air Cooled Chiller, 150 Tons | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 672,883 | 0.3% | 0.46 | 15 | \$56,597 | 89% | 0.03 |
| FE-Met Ed | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Comp & Elec | HVAC | Early | heat pump | 672,883 | 1.4% | 2.07 | 12 | \$28,968 | 81% | 0.17 |
| FE-Met Ed | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Comp & Elec | HVAC | Early | heat pump | 672,883 | 1.1% | 1.71 | 12 | \$21,164 | 81% | 0.20 |
| FE-Met Ed | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Comp & Elec | HVAC | New | heat pump | 672,883 | 1.0% | 1.54 | 12 | \$12,933 | 81% | 0.29 |
| FE-Met Ed | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Comp & Elec | HVAC | New | heat pump | 672,883 | 0.8% | 1.15 | 12 | \$4,521 | 81% | 0.59 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|------------------|----------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Comp & Elec | HVAC | ROB | heat pump | 672,883 | 1.0% | 1.54 | 12 | \$12,933 | 81% | 0.29 |
| FE-Met Ed | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Comp & Elec | HVAC | ROB | heat pump | 672,883 | 0.8% | 1.15 | 12 | \$4,521 | 81% | 0.59 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 672,883 | 1.6% | 2.43 | 15 | \$62,768 | 89% | 0.12 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Comp & Elec | HVAC | New | unit (ton) | 672,883 | 0.9% | 1.40 | 15 | \$20,876 | 89% | 0.21 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 672,883 | 0.9% | 1.40 | 15 | \$20,876 | 89% | 0.21 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 672,883 | 1.4% | 2.15 | 15 | \$61,302 | 89% | 0.11 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Comp & Elec | HVAC | New | unit (ton) | 672,883 | 1.0% | 1.51 | 15 | \$11,971 | 89% | 0.38 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 672,883 | 1.4% | 2.15 | 15 | \$10,997 | 89% | 0.58 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 672,883 | 1.4% | 2.12 | 15 | \$72,555 | 89% | 0.09 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Comp & Elec | HVAC | New | unit (ton) | 672,883 | 0.9% | 1.36 | 15 | \$30,547 | 89% | 0.14 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 672,883 | 1.4% | 2.12 | 15 | \$27,648 | 89% | 0.24 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 672,883 | 1.4% | 2.12 | 15 | \$69,889 | 89% | 0.10 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Comp & Elec | HVAC | New | unit (ton) | 672,883 | 0.9% | 1.36 | 15 | \$26,553 | 89% | 0.16 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 672,883 | 1.4% | 2.12 | 15 | \$24,032 | 89% | 0.27 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 672,883 | 1.8% | 2.75 | 15 | \$75,307 | 89% | 0.11 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Comp & Elec | HVAC | New | unit (ton) | 672,883 | 0.6% | 0.84 | 15 | \$46,631 | 89% | 0.06 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 672,883 | 1.8% | 2.75 | 15 | \$36,209 | 89% | 0.24 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 672,883 | 2.2% | 3.27 | 15 | \$69,266 | 89% | 0.15 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Comp & Elec | HVAC | New | unit (ton) | 672,883 | 0.8% | 1.18 | 15 | \$27,794 | 89% | 0.13 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 672,883 | 0.8% | 1.18 | 15 | \$27,794 | 89% | 0.13 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 672,883 | 2.4% | 3.68 | 15 | \$58,706 | 89% | 0.19 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Comp & Elec | HVAC | New | unit (ton) | 672,883 | 0.9% | 1.38 | 15 | \$14,772 | 89% | 0.29 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 672,883 | 2.4% | 3.68 | 15 | \$10,532 | 89% | 1.00 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 672,883 | 1.8% | 2.78 | 15 | \$58,115 | 89% | 0.15 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Comp & Elec | HVAC | New | unit (ton) | 672,883 | 0.7% | 1.04 | 15 | \$16,274 | 89% | 0.20 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 672,883 | 1.8% | 2.78 | 15 | \$12,893 | 89% | 0.64 |
| FE-Met Ed | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Comp & Elec | HVAC | Existing | building | 672,883 | 2.9% | 3.96 | 5 | \$7,139 | 55% | 0.63 |
| FE-Met Ed | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Comp & Elec | HVAC | New | building | 672,883 | 0.6% | 1.57 | 5 | \$4,283 | 51% | 0.30 |
| FE-Met Ed | Improved Controls - HVAC | Mfg: Comp & Elec | HVAC | Existing | end use | 672,883 | 21% | 20.18 | 10 | \$7,074 | 76% | 3.87 |
| FE-Met Ed | Improved Controls - HVAC | Mfg: Comp & Elec | HVAC | New | end use | 672,883 | 21% | 20.18 | 10 | \$7,074 | 76% | 3.87 |
| FE-Met Ed | Outside Air Economizer | Mfg: Comp & Elec | HVAC | Existing | building | 672,883 | 1.1% | 1.89 | 10 | \$2,472,298 | 82% | 0.00 |
| FE-Met Ed | Outside Air Economizer | Mfg: Comp & Elec | HVAC | New | building | 672,883 | 1.1% | 1.89 | 10 | \$2,472,298 | 82% | 0.00 |
| FE-Met Ed | Recommissioning | Mfg: Comp & Elec | HVAC | Existing | end use | 672,883 | 5.0% | 4.83 | 10 | \$923 | 88% | 4.78 |
| FE-Met Ed | Recommissioning | Mfg: Comp & Elec | HVAC | New | end use | 672,883 | 5.0% | 4.83 | 10 | \$923 | 88% | 4.78 |
| FE-Met Ed | Room AC (with louvered sides) | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 672,883 | 7.7% | 11.68 | 9 | \$52,740 | 78% | 0.43 |
| FE-Met Ed | Room AC (with louvered sides) | Mfg: Comp & Elec | HVAC | New | unit (ton) | 672,883 | 2.6% | 3.89 | 9 | \$2,888 | 78% | 1.97 |
| FE-Met Ed | Room AC (with louvered sides) | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 672,883 | 2.6% | 3.89 | 9 | \$2,888 | 78% | 1.97 |
| FE-Met Ed | Variable Refrigerant Flow Heat Pump | Mfg: Comp & Elec | HVAC | New | measure | 672,883 | 0.1% | 0.17 | 13 | \$4,976 | 43% | 0.09 |
| FE-Met Ed | Variable Refrigerant Flow Heat Pump | Mfg: Comp & Elec | HVAC | ROB | measure | 672,883 | 0.1% | 0.17 | 13 | \$4,976 | 43% | 0.09 |
| FE-Met Ed | VFD on Cooling Tower Fan | Mfg: Comp & Elec | HVAC | Early | motor | 672,883 | 21% | 42.34 | 15 | \$31,003 | 15% | 2.65 |
| FE-Met Ed | VFD on Cooling Tower Fan | Mfg: Comp & Elec | HVAC | New | motor | 672,883 | 22% | 42.34 | 15 | \$31,594 | 15% | 2.63 |
| FE-Met Ed | VFD on Cooling Tower Fan | Mfg: Comp & Elec | HVAC | ROB | motor | 672,883 | 22% | 42.34 | 15 | \$31,594 | 15% | 2.63 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Mfg: Comp & Elec | HVAC | Existing | building | 672,883 | 19% | 32.17 | 15 | \$478,665 | 26% | 0.19 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Mfg: Comp & Elec | HVAC | New | building | 672,883 | 0.6% | 1.03 | 15 | \$367,159 | 94% | 0.01 |
| FE-Met Ed | Water Source Heat Pump (4 ton) | Mfg: Comp & Elec | HVAC | Early | heat pump | 672,883 | 1.5% | 2.33 | 15 | \$114,913 | 28% | 0.06 |
| FE-Met Ed | Water Source Heat Pump (4 ton) | Mfg: Comp & Elec | HVAC | New | heat pump | 672,883 | 1.1% | 1.71 | 15 | \$56,006 | 28% | 0.09 |
| FE-Met Ed | Water Source Heat Pump (4 ton) | Mfg: Comp & Elec | HVAC | ROB | heat pump | 672,883 | 1.1% | 1.71 | 15 | \$56,006 | 28% | 0.09 |
| FE-Met Ed | Efficient Metal Halide (High Bay) | Mfg: Comp & Elec | Lighting | Early | end use | 275,814 | 42% | 0.00 | 9 | \$43,099 | 53% | 0.81 |
| FE-Met Ed | Efficient Metal Halide (High Bay) | Mfg: Comp & Elec | Lighting | New | end use | 275,814 | 41% | 0.00 | 13 | \$1,151,193 | 61% | 0.05 |
| FE-Met Ed | Efficient Metal Halide (High Bay) | Mfg: Comp & Elec | Lighting | ROB | end use | 275,814 | 41% | 0.00 | 13 | \$879,806 | 61% | 0.06 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---------------------------------------|------------------|----------|----------|---------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Induction (High Bay) | Mfg: Comp & Elec | Lighting | Early | end use | 275,814 | 94% | 0.00 | 13 | \$128,239 | 95% | 0.87 |
| FE-Met Ed | Induction (High Bay) | Mfg: Comp & Elec | Lighting | New | end use | 275,814 | 94% | 0.00 | 13 | \$120,063 | 95% | 0.92 |
| FE-Met Ed | Induction (High Bay) | Mfg: Comp & Elec | Lighting | ROB | end use | 275,814 | 94% | 0.00 | 13 | \$91,252 | 95% | 1.16 |
| FE-Met Ed | LED (High Bay) | Mfg: Comp & Elec | Lighting | Early | end use | 275,814 | 69% | 0.00 | 14 | \$150,955 | 95% | 0.60 |
| FE-Met Ed | LED (High Bay) | Mfg: Comp & Elec | Lighting | New | end use | 275,814 | 55% | 0.00 | 14 | \$167,557 | 95% | 0.44 |
| FE-Met Ed | LED (High Bay) | Mfg: Comp & Elec | Lighting | ROB | end use | 275,814 | 59% | 0.00 | 14 | \$110,400 | 95% | 0.69 |
| FE-Met Ed | Lighting Controls | Mfg: Comp & Elec | Lighting | Existing | end use | 275,814 | 20% | 0.00 | 6 | \$1,033,993 | 16% | 0.01 |
| FE-Met Ed | Lighting Controls | Mfg: Comp & Elec | Lighting | New | end use | 275,814 | 12% | 0.00 | 10 | \$1,375,548 | 11% | 0.01 |
| FE-Met Ed | Linear Fluorescent (High Bay) | Mfg: Comp & Elec | Lighting | Early | end use | 275,814 | 17% | 0.00 | 14 | \$31,559 | 98% | 0.69 |
| FE-Met Ed | Linear Fluorescent (High Bay) | Mfg: Comp & Elec | Lighting | New | end use | 275,814 | 13% | 0.00 | 14 | \$10,008 | 91% | 1.47 |
| FE-Met Ed | Linear Fluorescent (High Bay) | Mfg: Comp & Elec | Lighting | ROB | end use | 275,814 | 13% | 0.00 | 14 | \$6,408 | 91% | 2.12 |
| FE-Met Ed | Metal Halide (High Bay) | Mfg: Comp & Elec | Lighting | Early | end use | 275,814 | 62% | 0.00 | 13 | \$189,604 | 38% | 0.42 |
| FE-Met Ed | Metal Halide (High Bay) | Mfg: Comp & Elec | Lighting | New | end use | 275,814 | 73% | 0.00 | 13 | \$45,332 | 38% | 1.65 |
| FE-Met Ed | Metal Halide (High Bay) | Mfg: Comp & Elec | Lighting | ROB | end use | 275,814 | 73% | 0.00 | 13 | \$34,452 | 38% | 2.02 |
| FE-Met Ed | Screw Base CFL | Mfg: Comp & Elec | Lighting | Early | end use | 275,814 | 80% | 0.00 | 7 | \$74,932 | 17% | 0.70 |
| FE-Met Ed | Screw Base CFL | Mfg: Comp & Elec | Lighting | New | end use | 275,814 | 73% | 0.00 | 9 | \$61,238 | 18% | 0.95 |
| FE-Met Ed | Screw Base CFL | Mfg: Comp & Elec | Lighting | ROB | end use | 275,814 | 73% | 0.00 | 9 | \$51,256 | 17% | 1.10 |
| FE-Met Ed | Screw Base LED | Mfg: Comp & Elec | Lighting | Early | end use | 275,814 | 76% | 0.00 | 9 | \$45,987 | 21% | 1.28 |
| FE-Met Ed | Screw Base LED | Mfg: Comp & Elec | Lighting | New | end use | 275,814 | 77% | 0.00 | 9 | \$25,618 | 20% | 1.95 |
| FE-Met Ed | Screw Base LED | Mfg: Comp & Elec | Lighting | ROB | end use | 275,814 | 77% | 0.00 | 9 | \$20,337 | 21% | 2.25 |
| FE-Met Ed | T8 High Performance Linear Florescent | Mfg: Comp & Elec | Lighting | Early | end use | 275,814 | 36% | 0.00 | 14 | \$26,393 | 71% | 1.56 |
| FE-Met Ed | T8 High Performance Linear Florescent | Mfg: Comp & Elec | Lighting | New | end use | 275,814 | 26% | 0.00 | 14 | \$9,443 | 76% | 2.63 |
| FE-Met Ed | T8 High Performance Linear Florescent | Mfg: Comp & Elec | Lighting | ROB | end use | 275,814 | 26% | 0.00 | 14 | \$7,177 | 76% | 3.11 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Comp & Elec | Motors | Early | end use | 54,591 | 0.9% | 0.07 | 15 | \$834 | 81% | 0.36 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Comp & Elec | Motors | New | end use | 54,591 | 0.9% | 0.07 | 15 | \$834 | 81% | 0.36 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Comp & Elec | Motors | ROB | end use | 54,591 | 0.9% | 0.07 | 15 | \$834 | 81% | 0.36 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Comp & Elec | Motors | Early | end use | 54,591 | 0.7% | 0.06 | 15 | \$506 | 73% | 0.48 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Comp & Elec | Motors | New | end use | 54,591 | 0.7% | 0.06 | 15 | \$506 | 73% | 0.48 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Comp & Elec | Motors | ROB | end use | 54,591 | 0.7% | 0.06 | 15 | \$506 | 73% | 0.48 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Comp & Elec | Motors | Early | end use | 54,591 | 0.4% | 0.03 | 15 | \$194 | 81% | 0.73 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Comp & Elec | Motors | New | end use | 54,591 | 0.4% | 0.03 | 15 | \$194 | 81% | 0.73 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Comp & Elec | Motors | ROB | end use | 54,591 | 0.4% | 0.03 | 15 | \$194 | 81% | 0.73 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Comp & Elec | Motors | Early | end use | 54,591 | 0.4% | 0.03 | 15 | \$64 | 73% | 1.72 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Comp & Elec | Motors | New | end use | 54,591 | 0.4% | 0.03 | 15 | \$64 | 73% | 1.72 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Comp & Elec | Motors | ROB | end use | 54,591 | 0.4% | 0.03 | 15 | \$64 | 73% | 1.72 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Comp & Elec | Motors | Early | end use | 54,591 | 0.9% | 0.07 | 15 | \$96 | 47% | 2.43 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Comp & Elec | Motors | New | end use | 54,591 | 0.9% | 0.07 | 15 | \$96 | 47% | 2.43 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Comp & Elec | Motors | ROB | end use | 54,591 | 0.9% | 0.07 | 15 | \$96 | 47% | 2.43 |
| FE-Met Ed | Facility Energy Management | Mfg: Comp & Elec | Motors | Existing | end use | 54,591 | 2.0% | 0.14 | 2 | \$21 | 77% | 1.21 |
| FE-Met Ed | Facility Energy Management | Mfg: Comp & Elec | Motors | New | end use | 54,591 | 1.9% | 0.14 | 2 | \$21 | 77% | 1.21 |
| FE-Met Ed | HE Motors | Mfg: Comp & Elec | Motors | Early | end use | 54,591 | 2.0% | 0.16 | 15 | \$325 | 38% | 1.76 |
| FE-Met Ed | HE Motors | Mfg: Comp & Elec | Motors | New | end use | 54,591 | 2.0% | 0.16 | 15 | \$325 | 38% | 1.76 |
| FE-Met Ed | HE Motors | Mfg: Comp & Elec | Motors | ROB | end use | 54,591 | 2.0% | 0.16 | 15 | \$325 | 38% | 1.76 |
| FE-Met Ed | High-Efficiency Ventilation System | Mfg: Comp & Elec | Motors | Early | end use | 54,591 | 5.7% | 0.44 | 10 | \$3,412 | 73% | 0.39 |
| FE-Met Ed | High-Efficiency Ventilation System | Mfg: Comp & Elec | Motors | New | end use | 54,591 | 5.7% | 0.44 | 10 | \$3,412 | 73% | 0.39 |
| FE-Met Ed | High-Efficiency Ventilation System | Mfg: Comp & Elec | Motors | ROB | end use | 54,591 | 5.7% | 0.44 | 10 | \$3,412 | 73% | 0.39 |
| FE-Met Ed | Improved Controls - Motors | Mfg: Comp & Elec | Motors | Existing | end use | 54,591 | 4.0% | 0.31 | 10 | \$237 | 73% | 2.51 |
| FE-Met Ed | Improved Controls - Motors | Mfg: Comp & Elec | Motors | New | end use | 54,591 | 4.0% | 0.31 | 10 | \$237 | 73% | 2.51 |
| FE-Met Ed | Motor Management Plan | Mfg: Comp & Elec | Motors | Existing | end use | 54,591 | 2.9% | 0.23 | 10 | \$111 | 73% | 3.22 |
| FE-Met Ed | Motor Management Plan | Mfg: Comp & Elec | Motors | New | end use | 54,591 | 2.9% | 0.23 | 10 | \$111 | 73% | 3.22 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|--|------------------|------------------------|----------|---------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Motors Other | Mfg: Comp & Elec | Motors | Existing | end use | 54,591 | 1.1% | 0.09 | 15 | \$11 | 83% | 7.20 |
| FE-Met Ed | Motors Other | Mfg: Comp & Elec | Motors | New | end use | 54,591 | 1.1% | 0.09 | 15 | \$11 | 83% | 7.20 |
| FE-Met Ed | Motors: Rewind 101-200 HP | Mfg: Comp & Elec | Motors | Existing | end use | 54,591 | 0.6% | 0.04 | 10 | \$69 | 27% | 1.55 |
| FE-Met Ed | Motors: Rewind 101-200 HP | Mfg: Comp & Elec | Motors | New | end use | 54,591 | 0.6% | 0.04 | 10 | \$69 | 27% | 1.54 |
| FE-Met Ed | Motors: Rewind 201-500 HP | Mfg: Comp & Elec | Motors | Existing | end use | 54,591 | 0.6% | 0.04 | 8 | \$43 | 27% | 1.77 |
| FE-Met Ed | Motors: Rewind 201-500 HP | Mfg: Comp & Elec | Motors | New | end use | 54,591 | 0.6% | 0.04 | 8 | \$43 | 27% | 1.77 |
| FE-Met Ed | Motors: Rewind 20-50 HP | Mfg: Comp & Elec | Motors | Existing | end use | 54,591 | 1.0% | 0.08 | 11 | \$203 | 42% | 1.16 |
| FE-Met Ed | Motors: Rewind 20-50 HP | Mfg: Comp & Elec | Motors | New | end use | 54,591 | 1.0% | 0.08 | 11 | \$203 | 42% | 1.15 |
| FE-Met Ed | Motors: Rewind 500+ HP | Mfg: Comp & Elec | Motors | Existing | end use | 54,591 | 0.6% | 0.04 | 8 | \$31 | 11% | 2.23 |
| FE-Met Ed | Motors: Rewind 500+ HP | Mfg: Comp & Elec | Motors | New | end use | 54,591 | 0.6% | 0.04 | 8 | \$31 | 11% | 2.22 |
| FE-Met Ed | Motors: Rewind 51-100 HP | Mfg: Comp & Elec | Motors | Existing | end use | 54,591 | 0.6% | 0.05 | 9 | \$100 | 42% | 1.12 |
| FE-Met Ed | Motors: Rewind 51-100 HP | Mfg: Comp & Elec | Motors | New | end use | 54,591 | 0.6% | 0.05 | 9 | \$100 | 42% | 1.13 |
| FE-Met Ed | Switch from Belt drive to Direct Drive | Mfg: Comp & Elec | Motors | Early | end use | 54,591 | 7.5% | 0.59 | 12 | \$876 | 30% | 1.84 |
| FE-Met Ed | Switch from Belt drive to Direct Drive | Mfg: Comp & Elec | Motors | New | end use | 54,591 | 7.5% | 0.59 | 12 | \$876 | 30% | 1.84 |
| FE-Met Ed | Switch from Belt drive to Direct Drive | Mfg: Comp & Elec | Motors | ROB | end use | 54,591 | 7.5% | 0.59 | 12 | \$876 | 30% | 1.84 |
| FE-Met Ed | Bldg Improvements | Mfg: Comp & Elec | Other | Existing | end use | 159,345 | 16% | 3.07 | 15 | \$3,474 | 72% | 3.03 |
| FE-Met Ed | Bldg Improvements | Mfg: Comp & Elec | Other | New | end use | 159,345 | 16% | 3.07 | 15 | \$3,474 | 72% | 3.03 |
| FE-Met Ed | Energy Project Management | Mfg: Comp & Elec | Other | Existing | end use | 159,345 | 29% | 5.50 | 11 | \$5,688 | 63% | 2.45 |
| FE-Met Ed | Energy Project Management | Mfg: Comp & Elec | Other | New | end use | 159,345 | 29% | 5.50 | 11 | \$5,688 | 63% | 2.45 |
| FE-Met Ed | Facility Energy Management | Mfg: Comp & Elec | Other | Existing | end use | 159,345 | 1.9% | 0.35 | 2 | \$61 | 76% | 1.18 |
| FE-Met Ed | Facility Energy Management | Mfg: Comp & Elec | Other | New | end use | 159,345 | 1.9% | 0.35 | 2 | \$61 | 76% | 1.18 |
| FE-Met Ed | Integrated Plant Energy Management | Mfg: Comp & Elec | Other | Existing | end use | 159,345 | 50% | 9.48 | 11 | \$15,706 | 48% | 1.78 |
| FE-Met Ed | Integrated Plant Energy Management | Mfg: Comp & Elec | Other | New | end use | 159,345 | 50% | 9.48 | 11 | \$15,706 | 48% | 1.78 |
| FE-Met Ed | Plant Energy Management | Mfg: Comp & Elec | Other | Existing | end use | 159,345 | 12% | 2.28 | 10 | \$400 | 55% | 4.84 |
| FE-Met Ed | Plant Energy Management | Mfg: Comp & Elec | Other | New | end use | 159,345 | 12% | 2.28 | 10 | \$400 | 55% | 4.84 |
| FE-Met Ed | Transformers | Mfg: Comp & Elec | Other | Early | end use | 159,345 | 1.6% | 0.30 | 15 | \$509 | 34% | 2.27 |
| FE-Met Ed | Transformers | Mfg: Comp & Elec | Other | New | end use | 159,345 | 1.6% | 0.30 | 15 | \$509 | 34% | 2.27 |
| FE-Met Ed | Transformers | Mfg: Comp & Elec | Other | ROB | end use | 159,345 | 1.6% | 0.30 | 15 | \$509 | 34% | 2.27 |
| FE-Met Ed | Air Compressor Demand Reduction | Mfg: Comp & Elec | Process Air Compressor | Existing | end use | 10,717 | 26% | 0.36 | 10 | \$161 | 52% | 3.47 |
| FE-Met Ed | Air Compressor Demand Reduction | Mfg: Comp & Elec | Process Air Compressor | New | end use | 10,717 | 26% | 0.36 | 10 | \$161 | 52% | 3.47 |
| FE-Met Ed | Facility Energy Management | Mfg: Comp & Elec | Process Air Compressor | Existing | end use | 10,717 | 1.9% | 0.03 | 2 | \$4.1 | 66% | 1.19 |
| FE-Met Ed | Facility Energy Management | Mfg: Comp & Elec | Process Air Compressor | New | end use | 10,717 | 1.9% | 0.03 | 2 | \$4.1 | 66% | 1.19 |
| FE-Met Ed | HE Compressor motors | Mfg: Comp & Elec | Process Air Compressor | Early | end use | 10,717 | 1.1% | 0.02 | 15 | \$40 | 73% | 1.52 |
| FE-Met Ed | HE Compressor motors | Mfg: Comp & Elec | Process Air Compressor | New | end use | 10,717 | 1.1% | 0.02 | 15 | \$40 | 73% | 1.52 |
| FE-Met Ed | HE Compressor motors | Mfg: Comp & Elec | Process Air Compressor | ROB | end use | 10,717 | 1.1% | 0.02 | 15 | \$40 | 73% | 1.52 |
| FE-Met Ed | Improved Controls - Air Compressor | Mfg: Comp & Elec | Process Air Compressor | Existing | end use | 10,717 | 41% | 0.57 | 10 | \$191 | 25% | 3.91 |
| FE-Met Ed | Improved Controls - Air Compressor | Mfg: Comp & Elec | Process Air Compressor | New | end use | 10,717 | 41% | 0.57 | 10 | \$191 | 25% | 3.91 |
| FE-Met Ed | Low Pressure-drop Filters | Mfg: Comp & Elec | Process Air Compressor | Existing | end use | 10,717 | 1.8% | 0.03 | 10 | \$122 | 61% | 0.65 |
| FE-Met Ed | Low Pressure-drop Filters | Mfg: Comp & Elec | Process Air Compressor | New | end use | 10,717 | 1.8% | 0.03 | 10 | \$122 | 61% | 0.65 |
| FE-Met Ed | Outside Air Intake | Mfg: Comp & Elec | Process Air Compressor | Existing | end use | 10,717 | 1.4% | 0.02 | 10 | \$70 | 48% | 0.84 |
| FE-Met Ed | Outside Air Intake | Mfg: Comp & Elec | Process Air Compressor | New | end use | 10,717 | 1.4% | 0.02 | 10 | \$70 | 48% | 0.84 |
| FE-Met Ed | Receiver Capacity Addition | Mfg: Comp & Elec | Process Air Compressor | Existing | end use | 10,717 | 6.0% | 0.08 | 10 | \$199 | 36% | 1.17 |
| FE-Met Ed | Receiver Capacity Addition | Mfg: Comp & Elec | Process Air Compressor | New | end use | 10,717 | 6.0% | 0.08 | 10 | \$199 | 36% | 1.17 |
| FE-Met Ed | Refrigerated Cycling Dryers | Mfg: Comp & Elec | Process Air Compressor | Early | end use | 10,717 | 1.7% | 0.02 | 10 | \$25 | 21% | 2.14 |
| FE-Met Ed | Refrigerated Cycling Dryers | Mfg: Comp & Elec | Process Air Compressor | New | end use | 10,717 | 1.7% | 0.02 | 10 | \$25 | 21% | 2.14 |
| FE-Met Ed | Refrigerated Cycling Dryers | Mfg: Comp & Elec | Process Air Compressor | ROB | end use | 10,717 | 1.7% | 0.02 | 10 | \$25 | 21% | 2.14 |
| FE-Met Ed | VFD Controlled Compressor | Mfg: Comp & Elec | Process Air Compressor | Early | end use | 10,717 | 24% | 0.33 | 10 | \$1,055 | 28% | 0.92 |
| FE-Met Ed | VFD Controlled Compressor | Mfg: Comp & Elec | Process Air Compressor | New | end use | 10,717 | 24% | 0.33 | 10 | \$1,055 | 28% | 0.92 |
| FE-Met Ed | VFD Controlled Compressor | Mfg: Comp & Elec | Process Air Compressor | ROB | end use | 10,717 | 24% | 0.33 | 10 | \$1,055 | 28% | 0.92 |
| FE-Met Ed | Zero Loss Condensate Drain | Mfg: Comp & Elec | Process Air Compressor | Early | end use | 10,717 | 1.8% | 0.03 | 10 | \$61 | 36% | 1.17 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---------------------------------------|------------------|------------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Zero Loss Condensate Drain | Mfg: Comp & Elec | Process Air Compressor | New | end use | 10,717 | 1.8% | 0.03 | 10 | \$61 | 36% | 1.17 |
| FE-Met Ed | Zero Loss Condensate Drain | Mfg: Comp & Elec | Process Air Compressor | ROB | end use | 10,717 | 1.8% | 0.03 | 10 | \$61 | 36% | 1.17 |
| FE-Met Ed | Clean Room: Change Filter Strategy | Mfg: Comp & Elec | Process Cooling | Existing | end use | 111,282 | 40% | 9.28 | 1 | \$289 | 13% | 0.83 |
| FE-Met Ed | Clean Room: Change Filter Strategy | Mfg: Comp & Elec | Process Cooling | New | end use | 111,282 | 40% | 9.28 | 1 | \$289 | 13% | 0.83 |
| FE-Met Ed | Clean Room: Chiller Optimize | Mfg: Comp & Elec | Process Cooling | Existing | end use | 111,282 | 15% | 3.44 | 10 | \$1,343 | 21% | 3.16 |
| FE-Met Ed | Clean Room: Chiller Optimize | Mfg: Comp & Elec | Process Cooling | New | end use | 111,282 | 15% | 3.44 | 10 | \$1,343 | 21% | 3.16 |
| FE-Met Ed | Clean Room: Clean Room HVAC | Mfg: Comp & Elec | Process Cooling | Existing | end use | 111,282 | 9.0% | 2.09 | 15 | \$1,621 | 31% | 2.89 |
| FE-Met Ed | Clean Room: Clean Room HVAC | Mfg: Comp & Elec | Process Cooling | New | end use | 111,282 | 9.0% | 2.09 | 15 | \$1,621 | 31% | 2.89 |
| FE-Met Ed | Cooling Tower Optimization | Mfg: Comp & Elec | Process Cooling | Existing | building | 111,282 | 20% | 7.97 | 10 | \$682 | 23% | 5.47 |
| FE-Met Ed | Elec Chip Fab: Solidstate Chiller | Mfg: Comp & Elec | Process Cooling | Early | end use | 111,282 | 90% | 20.88 | 10 | \$50,931 | 42% | 0.83 |
| FE-Met Ed | Elec Chip Fab: Solidstate Chiller | Mfg: Comp & Elec | Process Cooling | New | end use | 111,282 | 90% | 20.88 | 10 | \$50,931 | 42% | 0.83 |
| FE-Met Ed | Elec Chip Fab: Solidstate Chiller | Mfg: Comp & Elec | Process Cooling | ROB | end use | 111,282 | 90% | 20.88 | 10 | \$50,931 | 42% | 0.83 |
| FE-Met Ed | Equipment: Chillers | Mfg: Comp & Elec | Process Cooling | Early | end use | 111,282 | 18% | 4.15 | 15 | \$5,223 | 39% | 2.02 |
| FE-Met Ed | Equipment: Chillers | Mfg: Comp & Elec | Process Cooling | New | end use | 111,282 | 18% | 4.15 | 15 | \$5,223 | 39% | 2.02 |
| FE-Met Ed | Equipment: Chillers | Mfg: Comp & Elec | Process Cooling | ROB | end use | 111,282 | 18% | 4.15 | 15 | \$5,223 | 39% | 2.02 |
| FE-Met Ed | Facility Energy Management | Mfg: Comp & Elec | Process Cooling | Existing | end use | 111,282 | 1.9% | 0.43 | 2 | \$43 | 50% | 1.27 |
| FE-Met Ed | Facility Energy Management | Mfg: Comp & Elec | Process Cooling | New | end use | 111,282 | 1.9% | 0.43 | 2 | \$43 | 50% | 1.27 |
| FE-Met Ed | Improved Controls - Process Cooling | Mfg: Comp & Elec | Process Cooling | Existing | end use | 111,282 | 6.0% | 1.39 | 10 | \$5,876 | 47% | 0.50 |
| FE-Met Ed | Improved Controls - Process Cooling | Mfg: Comp & Elec | Process Cooling | New | end use | 111,282 | 6.0% | 1.39 | 10 | \$5,876 | 47% | 0.51 |
| FE-Met Ed | VFD on Cooling Tower Fan | Mfg: Comp & Elec | Process Cooling | Early | motor | 111,282 | 21% | 7.00 | 15 | \$5,127 | 24% | 2.54 |
| FE-Met Ed | VFD on Cooling Tower Fan | Mfg: Comp & Elec | Process Cooling | New | motor | 111,282 | 22% | 7.00 | 15 | \$5,225 | 24% | 2.53 |
| FE-Met Ed | VFD on Cooling Tower Fan | Mfg: Comp & Elec | Process Cooling | ROB | motor | 111,282 | 22% | 7.00 | 15 | \$5,225 | 24% | 2.53 |
| FE-Met Ed | Improved Controls - Process Heating | Mfg: Comp & Elec | Process Heating | Existing | end use | 282,601 | 17% | 6.64 | 10 | \$3,247 | 77% | 3.24 |
| FE-Met Ed | Improved Controls - Process Heating | Mfg: Comp & Elec | Process Heating | New | end use | 282,601 | 17% | 6.64 | 10 | \$3,247 | 77% | 3.24 |
| FE-Met Ed | Process Heat O&M | Mfg: Comp & Elec | Process Heating | Existing | end use | 282,601 | 16% | 6.28 | 2 | \$1,962 | 77% | 0.95 |
| FE-Met Ed | Process Heat O&M | Mfg: Comp & Elec | Process Heating | New | end use | 282,601 | 16% | 6.28 | 2 | \$1,962 | 77% | 0.95 |
| FE-Met Ed | Elec Chip Fab: Eliminate Exhaust | Mfg: Comp & Elec | Process Other | Existing | end use | 104,479 | 5.0% | 0.73 | 10 | \$975 | 68% | 1.74 |
| FE-Met Ed | Elec Chip Fab: Eliminate Exhaust | Mfg: Comp & Elec | Process Other | New | end use | 104,479 | 5.0% | 0.73 | 10 | \$975 | 68% | 1.74 |
| FE-Met Ed | Elec Chip Fab: Exhaust Injector | Mfg: Comp & Elec | Process Other | Existing | end use | 104,479 | 100% | 14.66 | 10 | \$47,049 | 68% | 0.86 |
| FE-Met Ed | Elec Chip Fab: Exhaust Injector | Mfg: Comp & Elec | Process Other | New | end use | 104,479 | 100% | 14.66 | 10 | \$47,049 | 68% | 0.86 |
| FE-Met Ed | Elec Chip Fab: Reduce Gas Pressure | Mfg: Comp & Elec | Process Other | Existing | end use | 104,479 | 10.0% | 1.47 | 10 | \$0.0 | 68% | 6.33 |
| FE-Met Ed | Elec Chip Fab: Reduce Gas Pressure | Mfg: Comp & Elec | Process Other | New | end use | 104,479 | 10% | 1.47 | 10 | \$0.0 | 68% | 6.33 |
| FE-Met Ed | Facility Energy Management | Mfg: Comp & Elec | Process Other | Existing | end use | 104,479 | 1.8% | 0.27 | 2 | \$40 | 77% | 1.18 |
| FE-Met Ed | Facility Energy Management | Mfg: Comp & Elec | Process Other | New | end use | 104,479 | 1.9% | 0.27 | 2 | \$40 | 77% | 1.18 |
| FE-Met Ed | Adjustable speed drive on compressors | Mfg: Comp & Elec | Process Refrigeration | Early | end use | 57,165 | 12% | 0.98 | 10 | \$1,057 | 30% | 1.99 |
| FE-Met Ed | Adjustable speed drive on compressors | Mfg: Comp & Elec | Process Refrigeration | New | end use | 57,165 | 12% | 0.98 | 10 | \$1,057 | 30% | 1.99 |
| FE-Met Ed | Adjustable speed drive on compressors | Mfg: Comp & Elec | Process Refrigeration | ROB | end use | 57,165 | 12% | 0.98 | 10 | \$1,057 | 30% | 1.99 |
| FE-Met Ed | Cooling Tower Optimization | Mfg: Comp & Elec | Process Refrigeration | Existing | building | 57,165 | 20% | 4.09 | 10 | \$351 | 23% | 5.47 |
| FE-Met Ed | Optimization of operating parameters | Mfg: Comp & Elec | Process Refrigeration | Existing | end use | 57,165 | 13% | 1.10 | 3 | \$462 | 27% | 1.21 |
| FE-Met Ed | Optimization of operating parameters | Mfg: Comp & Elec | Process Refrigeration | New | end use | 57,165 | 13% | 1.10 | 3 | \$462 | 27% | 1.20 |
| FE-Met Ed | VFD on Cooling Tower Fan | Mfg: Comp & Elec | Process Refrigeration | Early | motor | 57,165 | 21% | 3.60 | 15 | \$2,634 | 24% | 2.54 |
| FE-Met Ed | VFD on Cooling Tower Fan | Mfg: Comp & Elec | Process Refrigeration | New | motor | 57,165 | 22% | 3.60 | 15 | \$2,684 | 24% | 2.53 |
| FE-Met Ed | VFD on Cooling Tower Fan | Mfg: Comp & Elec | Process Refrigeration | ROB | motor | 57,165 | 22% | 3.60 | 15 | \$2,684 | 24% | 2.53 |
| FE-Met Ed | Facility Energy Management | Mfg: Comp & Elec | Pumps | Existing | end use | 306,015 | 1.9% | 0.73 | 2 | \$118 | 73% | 1.22 |
| FE-Met Ed | Facility Energy Management | Mfg: Comp & Elec | Pumps | New | end use | 306,015 | 1.9% | 0.73 | 2 | \$118 | 73% | 1.22 |
| FE-Met Ed | HE Motors | Mfg: Comp & Elec | Pumps | Early | end use | 306,015 | 2.0% | 0.81 | 15 | \$1,822 | 77% | 1.74 |
| FE-Met Ed | HE Motors | Mfg: Comp & Elec | Pumps | New | end use | 306,015 | 2.0% | 0.81 | 15 | \$1,822 | 77% | 1.74 |
| FE-Met Ed | HE Motors | Mfg: Comp & Elec | Pumps | ROB | end use | 306,015 | 2.0% | 0.81 | 15 | \$1,822 | 77% | 1.74 |
| FE-Met Ed | Motor rewinds | Mfg: Comp & Elec | Pumps | Existing | end use | 306,015 | 0.6% | 0.24 | 9 | \$435 | 12% | 1.36 |
| FE-Met Ed | Motor rewinds | Mfg: Comp & Elec | Pumps | New | end use | 306,015 | 0.6% | 0.24 | 9 | \$435 | 12% | 1.38 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|--|-----------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Circulating Fans | Mfg: Food | Fans | Early | end use | 278,127 | 5.0% | 1.66 | 10 | \$1,693 | 68% | 2.35 |
| FE-Met Ed | Circulating Fans | Mfg: Food | Fans | New | end use | 278,127 | 5.0% | 1.66 | 10 | \$1,693 | 68% | 2.35 |
| FE-Met Ed | Circulating Fans | Mfg: Food | Fans | ROB | end use | 278,127 | 5.0% | 1.66 | 10 | \$1,693 | 68% | 2.36 |
| FE-Met Ed | Facility Energy Management | Mfg: Food | Fans | Existing | end use | 278,127 | 1.9% | 0.61 | 2 | \$107 | 77% | 1.21 |
| FE-Met Ed | Facility Energy Management | Mfg: Food | Fans | New | end use | 278,127 | 1.9% | 0.61 | 2 | \$107 | 77% | 1.21 |
| FE-Met Ed | Fan System Optimization | Mfg: Food | Fans | Existing | end use | 278,127 | 7.3% | 2.43 | 10 | \$3,794 | 83% | 1.76 |
| FE-Met Ed | Fan System Optimization | Mfg: Food | Fans | New | end use | 278,127 | 7.3% | 2.43 | 10 | \$3,794 | 83% | 1.76 |
| FE-Met Ed | HE Motors | Mfg: Food | Fans | Early | end use | 278,127 | 2.0% | 0.68 | 15 | \$1,656 | 77% | 1.77 |
| FE-Met Ed | HE Motors | Mfg: Food | Fans | New | end use | 278,127 | 2.0% | 0.68 | 15 | \$1,656 | 77% | 1.77 |
| FE-Met Ed | HE Motors | Mfg: Food | Fans | ROB | end use | 278,127 | 2.0% | 0.68 | 15 | \$1,656 | 77% | 1.77 |
| FE-Met Ed | Improved Controls - Fans | Mfg: Food | Fans | Existing | end use | 278,127 | 7.1% | 2.35 | 10 | \$1,078 | 60% | 3.62 |
| FE-Met Ed | Improved Controls - Fans | Mfg: Food | Fans | New | end use | 278,127 | 7.1% | 2.35 | 10 | \$1,078 | 60% | 3.62 |
| FE-Met Ed | Properly Sized Fans | Mfg: Food | Fans | Early | end use | 278,127 | 13% | 4.36 | 10 | \$5,696 | 41% | 2.00 |
| FE-Met Ed | Properly Sized Fans | Mfg: Food | Fans | New | end use | 278,127 | 13% | 4.36 | 10 | \$5,696 | 41% | 2.00 |
| FE-Met Ed | Properly Sized Fans | Mfg: Food | Fans | ROB | end use | 278,127 | 13% | 4.36 | 10 | \$5,696 | 41% | 2.00 |
| FE-Met Ed | Synchronous Belts | Mfg: Food | Fans | Early | end use | 278,127 | 1.2% | 0.39 | 10 | \$410 | 41% | 2.30 |
| FE-Met Ed | Synchronous Belts | Mfg: Food | Fans | New | end use | 278,127 | 1.2% | 0.39 | 10 | \$410 | 41% | 2.30 |
| FE-Met Ed | Synchronous Belts | Mfg: Food | Fans | ROB | end use | 278,127 | 1.2% | 0.39 | 10 | \$410 | 41% | 2.30 |
| FE-Met Ed | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Food | HVAC | Early | unit (ton) | 172,634 | 9.2% | 4.11 | 15 | \$31,447 | 28% | 0.36 |
| FE-Met Ed | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Food | HVAC | New | unit (ton) | 172,634 | 4.1% | 1.84 | 15 | \$7,619 | 28% | 0.64 |
| FE-Met Ed | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Food | HVAC | ROB | unit (ton) | 172,634 | 4.1% | 1.84 | 15 | \$7,619 | 28% | 0.64 |
| FE-Met Ed | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Food | HVAC | Early | unit (ton) | 172,634 | 12% | 5.56 | 15 | \$37,073 | 28% | 0.41 |
| FE-Met Ed | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Food | HVAC | New | unit (ton) | 172,634 | 7.7% | 3.44 | 15 | \$16,047 | 28% | 0.57 |
| FE-Met Ed | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Food | HVAC | ROB | unit (ton) | 172,634 | 7.7% | 3.44 | 15 | \$16,047 | 28% | 0.57 |
| FE-Met Ed | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Food | HVAC | Early | unit (ton) | 172,634 | 15% | 6.82 | 15 | \$42,699 | 29% | 0.43 |
| FE-Met Ed | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Food | HVAC | New | unit (ton) | 172,634 | 11% | 4.84 | 15 | \$24,476 | 29% | 0.53 |
| FE-Met Ed | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Food | HVAC | ROB | unit (ton) | 172,634 | 11% | 4.84 | 15 | \$24,476 | 29% | 0.53 |
| FE-Met Ed | >760k min 10.2 EER Air Conditioner | Mfg: Food | HVAC | Early | unit (ton) | 172,634 | 2.1% | 0.95 | 15 | \$54,764 | 35% | 0.05 |
| FE-Met Ed | >760k min 10.2 EER Air Conditioner | Mfg: Food | HVAC | New | unit (ton) | 172,634 | 2.8% | 1.27 | 15 | \$4,950 | 35% | 0.68 |
| FE-Met Ed | >760k min 10.2 EER Air Conditioner | Mfg: Food | HVAC | ROB | unit (ton) | 172,634 | 2.8% | 1.27 | 15 | \$4,950 | 35% | 0.68 |
| FE-Met Ed | 135-240k min 12 EER Air Conditioner | Mfg: Food | HVAC | Early | unit (ton) | 172,634 | 10% | 4.68 | 15 | \$59,300 | 35% | 0.22 |
| FE-Met Ed | 135-240k min 12 EER Air Conditioner | Mfg: Food | HVAC | New | unit (ton) | 172,634 | 5.8% | 2.58 | 15 | \$7,002 | 35% | 0.95 |
| FE-Met Ed | 135-240k min 12 EER Air Conditioner | Mfg: Food | HVAC | ROB | unit (ton) | 172,634 | 5.8% | 2.58 | 15 | \$7,002 | 35% | 0.95 |
| FE-Met Ed | 240k-760k min 11 EER Air Conditioner | Mfg: Food | HVAC | Early | unit (ton) | 172,634 | 5.2% | 2.33 | 15 | \$54,798 | 35% | 0.12 |
| FE-Met Ed | 240k-760k min 11 EER Air Conditioner | Mfg: Food | HVAC | New | unit (ton) | 172,634 | 5.3% | 2.39 | 15 | \$5,871 | 35% | 1.04 |
| FE-Met Ed | 240k-760k min 11 EER Air Conditioner | Mfg: Food | HVAC | ROB | unit (ton) | 172,634 | 5.3% | 2.39 | 15 | \$5,871 | 35% | 1.04 |
| FE-Met Ed | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Food | HVAC | Early | unit (ton) | 172,634 | 9.7% | 4.34 | 15 | \$60,719 | 35% | 0.20 |
| FE-Met Ed | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Food | HVAC | New | unit (ton) | 172,634 | 3.8% | 1.72 | 15 | \$8,663 | 35% | 0.53 |
| FE-Met Ed | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Food | HVAC | ROB | unit (ton) | 172,634 | 3.8% | 1.72 | 15 | \$8,663 | 35% | 0.53 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Mfg: Food | HVAC | Existing | building | 172,634 | 5.9% | 2.56 | 15 | \$523,055 | 71% | 0.01 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Mfg: Food | HVAC | New | building | 172,634 | 3.7% | 1.61 | 15 | \$497,179 | 94% | 0.01 |
| FE-Met Ed | Chiller Tuneup/Diagnostics | Mfg: Food | HVAC | Existing | building | 172,634 | 8.0% | 5.06 | 10 | \$440,813 | 59% | 0.02 |
| FE-Met Ed | Chiller Tuneup/Diagnostics | Mfg: Food | HVAC | New | building | 172,634 | 8.0% | 5.07 | 10 | \$440,813 | 59% | 0.02 |
| FE-Met Ed | Cooling Tower Optimization | Mfg: Food | HVAC | Existing | building | 172,634 | 20% | 12.36 | 10 | \$1,059 | 14% | 5.42 |
| FE-Met Ed | Duct Insulation, Add R8 | Mfg: Food | HVAC | Existing | building | 172,634 | 1.5% | 0.55 | 15 | \$1,371 | 18% | 1.20 |
| FE-Met Ed | Duct Insulation, Add R8 | Mfg: Food | HVAC | New | building | 172,634 | 1.5% | 0.55 | 15 | \$1,371 | 9% | 1.20 |
| FE-Met Ed | Ductless Heat Pump | Mfg: Food | HVAC | Early | heat pump | 172,634 | 0.8% | 0.32 | 15 | \$13,711 | 83% | 0.07 |
| FE-Met Ed | Ductless Heat Pump | Mfg: Food | HVAC | New | heat pump | 172,634 | 0.4% | 0.17 | 15 | \$3,982 | 83% | 0.13 |
| FE-Met Ed | Ductless Heat Pump | Mfg: Food | HVAC | ROB | heat pump | 172,634 | 0.4% | 0.17 | 15 | \$3,982 | 83% | 0.13 |
| FE-Met Ed | DX Coil Cleaning | Mfg: Food | HVAC | Existing | building | 172,634 | 13% | 7.92 | 1 | \$1,655 | 73% | 0.52 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|-----------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | DX Coil Cleaning | Mfg: Food | HVAC | New | building | 172,634 | 13% | 7.92 | 1 | \$1,655 | 73% | 0.52 |
| FE-Met Ed | Efficient Unit Heating System | Mfg: Food | HVAC | Early | heater | 172,634 | 6.9% | 0.10 | 15 | \$9,299 | 83% | 0.63 |
| FE-Met Ed | Efficient Unit Heating System | Mfg: Food | HVAC | New | heater | 172,634 | 4.0% | 0.06 | 15 | \$6,343 | 83% | 0.53 |
| FE-Met Ed | Efficient Unit Heating System | Mfg: Food | HVAC | ROB | heater | 172,634 | 4.0% | 0.06 | 15 | \$6,343 | 83% | 0.53 |
| FE-Met Ed | Ground Source Heat Pump (Closed Loop) | Mfg: Food | HVAC | Early | heat pump | 172,634 | 1.3% | 0.50 | 15 | \$28,470 | 19% | 0.05 |
| FE-Met Ed | Ground Source Heat Pump (Closed Loop) | Mfg: Food | HVAC | New | heat pump | 172,634 | 1.0% | 0.40 | 15 | \$11,241 | 19% | 0.11 |
| FE-Met Ed | Ground Source Heat Pump (Closed Loop) | Mfg: Food | HVAC | ROB | heat pump | 172,634 | 1.0% | 0.40 | 15 | \$11,241 | 19% | 0.11 |
| FE-Met Ed | Ground Source Heat Pump (Open Loop) | Mfg: Food | HVAC | Early | heat pump | 172,634 | 1.3% | 0.50 | 15 | \$18,234 | 19% | 0.08 |
| FE-Met Ed | Ground Source Heat Pump (Open Loop) | Mfg: Food | HVAC | New | heat pump | 172,634 | 1.0% | 0.40 | 15 | \$387 | 19% | 2.35 |
| FE-Met Ed | Ground Source Heat Pump (Open Loop) | Mfg: Food | HVAC | ROB | heat pump | 172,634 | 1.0% | 0.40 | 15 | \$387 | 19% | 2.35 |
| FE-Met Ed | HE Air Cooled Chiller, 100 Tons | Mfg: Food | HVAC | Early | unit (ton) | 172,634 | 1.5% | 0.57 | 15 | \$202,959 | 89% | 0.01 |
| FE-Met Ed | HE Air Cooled Chiller, 100 Tons | Mfg: Food | HVAC | New | unit (ton) | 172,634 | 0.4% | 0.16 | 15 | \$29,567 | 89% | 0.02 |
| FE-Met Ed | HE Air Cooled Chiller, 100 Tons | Mfg: Food | HVAC | ROB | unit (ton) | 172,634 | 0.4% | 0.16 | 15 | \$29,567 | 89% | 0.02 |
| FE-Met Ed | HE Air Cooled Chiller, 150 Tons | Mfg: Food | HVAC | Early | unit (ton) | 172,634 | 1.5% | 0.57 | 15 | \$175,311 | 89% | 0.01 |
| FE-Met Ed | HE Air Cooled Chiller, 150 Tons | Mfg: Food | HVAC | New | unit (ton) | 172,634 | 0.3% | 0.12 | 15 | \$14,520 | 89% | 0.03 |
| FE-Met Ed | HE Air Cooled Chiller, 150 Tons | Mfg: Food | HVAC | ROB | unit (ton) | 172,634 | 0.3% | 0.12 | 15 | \$14,520 | 89% | 0.03 |
| FE-Met Ed | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Food | HVAC | Early | heat pump | 172,634 | 1.4% | 0.53 | 12 | \$7,432 | 81% | 0.17 |
| FE-Met Ed | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Food | HVAC | Early | heat pump | 172,634 | 1.1% | 0.44 | 12 | \$5,430 | 81% | 0.20 |
| FE-Met Ed | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Food | HVAC | New | heat pump | 172,634 | 1.0% | 0.40 | 12 | \$3,318 | 81% | 0.29 |
| FE-Met Ed | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Food | HVAC | New | heat pump | 172,634 | 0.8% | 0.29 | 12 | \$1,160 | 81% | 0.59 |
| FE-Met Ed | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Food | HVAC | ROB | heat pump | 172,634 | 1.0% | 0.40 | 12 | \$3,318 | 81% | 0.29 |
| FE-Met Ed | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Food | HVAC | ROB | heat pump | 172,634 | 0.8% | 0.29 | 12 | \$1,160 | 81% | 0.59 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Food | HVAC | Early | unit (ton) | 172,634 | 1.6% | 0.62 | 15 | \$16,104 | 89% | 0.12 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Food | HVAC | New | unit (ton) | 172,634 | 0.9% | 0.36 | 15 | \$5,356 | 89% | 0.21 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Food | HVAC | ROB | unit (ton) | 172,634 | 0.9% | 0.36 | 15 | \$5,356 | 89% | 0.21 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Food | HVAC | Early | unit (ton) | 172,634 | 1.4% | 0.55 | 15 | \$15,728 | 89% | 0.11 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Food | HVAC | New | unit (ton) | 172,634 | 1.0% | 0.39 | 15 | \$3,071 | 89% | 0.38 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Food | HVAC | ROB | unit (ton) | 172,634 | 1.4% | 0.55 | 15 | \$2,821 | 89% | 0.58 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Food | HVAC | Early | unit (ton) | 172,634 | 1.4% | 0.54 | 15 | \$18,615 | 89% | 0.09 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Food | HVAC | New | unit (ton) | 172,634 | 0.9% | 0.35 | 15 | \$7,837 | 89% | 0.14 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Food | HVAC | ROB | unit (ton) | 172,634 | 1.4% | 0.54 | 15 | \$7,093 | 89% | 0.24 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Food | HVAC | Early | unit (ton) | 172,634 | 1.4% | 0.54 | 15 | \$17,931 | 89% | 0.10 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Food | HVAC | New | unit (ton) | 172,634 | 0.9% | 0.35 | 15 | \$6,812 | 89% | 0.16 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Food | HVAC | ROB | unit (ton) | 172,634 | 1.4% | 0.54 | 15 | \$6,166 | 89% | 0.27 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Food | HVAC | Early | unit (ton) | 172,634 | 1.8% | 0.71 | 15 | \$19,321 | 89% | 0.11 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Food | HVAC | New | unit (ton) | 172,634 | 0.6% | 0.22 | 15 | \$11,964 | 89% | 0.06 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Food | HVAC | ROB | unit (ton) | 172,634 | 1.8% | 0.71 | 15 | \$9,290 | 89% | 0.24 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Food | HVAC | Early | unit (ton) | 172,634 | 2.2% | 0.84 | 15 | \$17,771 | 89% | 0.15 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Food | HVAC | New | unit (ton) | 172,634 | 0.8% | 0.30 | 15 | \$7,131 | 89% | 0.13 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Food | HVAC | ROB | unit (ton) | 172,634 | 0.8% | 0.30 | 15 | \$7,131 | 89% | 0.13 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Food | HVAC | Early | unit (ton) | 172,634 | 2.4% | 0.94 | 15 | \$15,062 | 89% | 0.19 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Food | HVAC | New | unit (ton) | 172,634 | 0.9% | 0.35 | 15 | \$3,790 | 89% | 0.29 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Food | HVAC | ROB | unit (ton) | 172,634 | 2.4% | 0.94 | 15 | \$2,702 | 89% | 1.00 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Food | HVAC | Early | unit (ton) | 172,634 | 1.8% | 0.71 | 15 | \$14,910 | 89% | 0.15 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Food | HVAC | New | unit (ton) | 172,634 | 0.7% | 0.27 | 15 | \$4,175 | 89% | 0.20 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Food | HVAC | ROB | unit (ton) | 172,634 | 1.8% | 0.71 | 15 | \$3,308 | 89% | 0.64 |
| FE-Met Ed | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Food | HVAC | Existing | building | 172,634 | 2.9% | 1.02 | 5 | \$1,832 | 55% | 0.63 |
| FE-Met Ed | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Food | HVAC | New | building | 172,634 | 0.6% | 0.40 | 5 | \$1,099 | 51% | 0.30 |
| FE-Met Ed | Improved Controls - HVAC | Mfg: Food | HVAC | Existing | end use | 172,634 | 21% | 5.18 | 10 | \$1,815 | 76% | 3.87 |
| FE-Met Ed | Improved Controls - HVAC | Mfg: Food | HVAC | New | end use | 172,634 | 21% | 5.18 | 10 | \$1,815 | 76% | 3.87 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---------------------------------------|-----------|----------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Outside Air Economizer | Mfg: Food | HVAC | Existing | building | 172,634 | 1.1% | 0.48 | 10 | \$634,291 | 82% | 0.00 |
| FE-Met Ed | Outside Air Economizer | Mfg: Food | HVAC | New | building | 172,634 | 1.1% | 0.48 | 10 | \$634,291 | 82% | 0.00 |
| FE-Met Ed | Recommissioning | Mfg: Food | HVAC | Existing | end use | 172,634 | 5.0% | 1.24 | 10 | \$237 | 88% | 4.78 |
| FE-Met Ed | Recommissioning | Mfg: Food | HVAC | New | end use | 172,634 | 5.0% | 1.24 | 10 | \$237 | 88% | 4.78 |
| FE-Met Ed | Room AC (with louvered sides) | Mfg: Food | HVAC | Early | unit (ton) | 172,634 | 7.7% | 3.00 | 9 | \$13,531 | 78% | 0.43 |
| FE-Met Ed | Room AC (with louvered sides) | Mfg: Food | HVAC | New | unit (ton) | 172,634 | 2.6% | 1.00 | 9 | \$741 | 78% | 1.97 |
| FE-Met Ed | Room AC (with louvered sides) | Mfg: Food | HVAC | ROB | unit (ton) | 172,634 | 2.6% | 1.00 | 9 | \$741 | 78% | 1.97 |
| FE-Met Ed | Variable Refrigerant Flow Heat Pump | Mfg: Food | HVAC | New | measure | 172,634 | 0.1% | 0.04 | 13 | \$1,277 | 43% | 0.09 |
| FE-Met Ed | Variable Refrigerant Flow Heat Pump | Mfg: Food | HVAC | ROB | measure | 172,634 | 0.1% | 0.04 | 13 | \$1,277 | 43% | 0.09 |
| FE-Met Ed | VFD on Cooling Tower Fan | Mfg: Food | HVAC | Early | motor | 172,634 | 21% | 10.86 | 15 | \$7,954 | 15% | 2.65 |
| FE-Met Ed | VFD on Cooling Tower Fan | Mfg: Food | HVAC | New | motor | 172,634 | 22% | 10.86 | 15 | \$8,106 | 15% | 2.63 |
| FE-Met Ed | VFD on Cooling Tower Fan | Mfg: Food | HVAC | ROB | motor | 172,634 | 22% | 10.86 | 15 | \$8,106 | 15% | 2.63 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Mfg: Food | HVAC | Existing | building | 172,634 | 19% | 8.25 | 15 | \$122,806 | 26% | 0.19 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Mfg: Food | HVAC | New | building | 172,634 | 0.6% | 0.26 | 15 | \$94,198 | 94% | 0.01 |
| FE-Met Ed | Water Source Heat Pump (4 ton) | Mfg: Food | HVAC | Early | heat pump | 172,634 | 1.5% | 0.60 | 15 | \$29,482 | 28% | 0.06 |
| FE-Met Ed | Water Source Heat Pump (4 ton) | Mfg: Food | HVAC | New | heat pump | 172,634 | 1.1% | 0.44 | 15 | \$14,369 | 28% | 0.09 |
| FE-Met Ed | Water Source Heat Pump (4 ton) | Mfg: Food | HVAC | ROB | heat pump | 172,634 | 1.1% | 0.44 | 15 | \$14,369 | 28% | 0.09 |
| FE-Met Ed | Efficient Metal Halide (High Bay) | Mfg: Food | Lighting | Early | end use | 178,250 | 42% | 0.00 | 9 | \$27,854 | 53% | 0.81 |
| FE-Met Ed | Efficient Metal Halide (High Bay) | Mfg: Food | Lighting | New | end use | 178,250 | 41% | 0.00 | 13 | \$743,982 | 61% | 0.05 |
| FE-Met Ed | Efficient Metal Halide (High Bay) | Mfg: Food | Lighting | ROB | end use | 178,250 | 41% | 0.00 | 13 | \$568,592 | 61% | 0.06 |
| FE-Met Ed | Induction (High Bay) | Mfg: Food | Lighting | Early | end use | 178,250 | 94% | 0.00 | 13 | \$82,877 | 95% | 0.87 |
| FE-Met Ed | Induction (High Bay) | Mfg: Food | Lighting | New | end use | 178,250 | 94% | 0.00 | 13 | \$77,593 | 95% | 0.92 |
| FE-Met Ed | Induction (High Bay) | Mfg: Food | Lighting | ROB | end use | 178,250 | 94% | 0.00 | 13 | \$58,974 | 95% | 1.16 |
| FE-Met Ed | LED (High Bay) | Mfg: Food | Lighting | Early | end use | 178,250 | 69% | 0.00 | 14 | \$97,558 | 95% | 0.60 |
| FE-Met Ed | LED (High Bay) | Mfg: Food | Lighting | New | end use | 178,250 | 55% | 0.00 | 14 | \$108,287 | 95% | 0.44 |
| FE-Met Ed | LED (High Bay) | Mfg: Food | Lighting | ROB | end use | 178,250 | 59% | 0.00 | 14 | \$71,349 | 95% | 0.69 |
| FE-Met Ed | Lighting Controls | Mfg: Food | Lighting | Existing | end use | 178,250 | 20% | 0.00 | 6 | \$668,239 | 16% | 0.01 |
| FE-Met Ed | Lighting Controls | Mfg: Food | Lighting | New | end use | 178,250 | 12% | 0.00 | 10 | \$888,976 | 11% | 0.01 |
| FE-Met Ed | Linear Fluorescent (High Bay) | Mfg: Food | Lighting | Early | end use | 178,250 | 17% | 0.00 | 14 | \$20,396 | 98% | 0.69 |
| FE-Met Ed | Linear Fluorescent (High Bay) | Mfg: Food | Lighting | New | end use | 178,250 | 13% | 0.00 | 14 | \$6,468 | 91% | 1.47 |
| FE-Met Ed | Linear Fluorescent (High Bay) | Mfg: Food | Lighting | ROB | end use | 178,250 | 13% | 0.00 | 14 | \$4,141 | 91% | 2.12 |
| FE-Met Ed | Metal Halide (High Bay) | Mfg: Food | Lighting | Early | end use | 178,250 | 62% | 0.00 | 13 | \$122,536 | 38% | 0.42 |
| FE-Met Ed | Metal Halide (High Bay) | Mfg: Food | Lighting | New | end use | 178,250 | 73% | 0.00 | 13 | \$29,297 | 38% | 1.65 |
| FE-Met Ed | Metal Halide (High Bay) | Mfg: Food | Lighting | ROB | end use | 178,250 | 73% | 0.00 | 13 | \$22,265 | 38% | 2.02 |
| FE-Met Ed | Screw Base CFL | Mfg: Food | Lighting | Early | end use | 178,250 | 80% | 0.00 | 7 | \$48,427 | 17% | 0.70 |
| FE-Met Ed | Screw Base CFL | Mfg: Food | Lighting | New | end use | 178,250 | 73% | 0.00 | 9 | \$39,576 | 18% | 0.95 |
| FE-Met Ed | Screw Base CFL | Mfg: Food | Lighting | ROB | end use | 178,250 | 73% | 0.00 | 9 | \$33,125 | 17% | 1.10 |
| FE-Met Ed | Screw Base LED | Mfg: Food | Lighting | Early | end use | 178,250 | 76% | 0.00 | 9 | \$29,720 | 21% | 1.28 |
| FE-Met Ed | Screw Base LED | Mfg: Food | Lighting | New | end use | 178,250 | 77% | 0.00 | 9 | \$16,556 | 20% | 1.95 |
| FE-Met Ed | Screw Base LED | Mfg: Food | Lighting | ROB | end use | 178,250 | 77% | 0.00 | 9 | \$13,143 | 21% | 2.25 |
| FE-Met Ed | T8 High Performance Linear Florescent | Mfg: Food | Lighting | Early | end use | 178,250 | 36% | 0.00 | 14 | \$17,057 | 71% | 1.56 |
| FE-Met Ed | T8 High Performance Linear Florescent | Mfg: Food | Lighting | New | end use | 178,250 | 26% | 0.00 | 14 | \$6,103 | 76% | 2.63 |
| FE-Met Ed | T8 High Performance Linear Florescent | Mfg: Food | Lighting | ROB | end use | 178,250 | 26% | 0.00 | 14 | \$4,638 | 76% | 3.11 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Food | Motors | Early | end use | 87,809 | 0.9% | 0.11 | 15 | \$1,341 | 81% | 0.36 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Food | Motors | New | end use | 87,809 | 0.9% | 0.11 | 15 | \$1,341 | 81% | 0.36 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Food | Motors | ROB | end use | 87,809 | 0.9% | 0.11 | 15 | \$1,341 | 81% | 0.36 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Food | Motors | Early | end use | 87,809 | 0.7% | 0.09 | 15 | \$815 | 73% | 0.48 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Food | Motors | New | end use | 87,809 | 0.7% | 0.09 | 15 | \$815 | 73% | 0.48 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Food | Motors | ROB | end use | 87,809 | 0.7% | 0.09 | 15 | \$815 | 73% | 0.48 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Food | Motors | Early | end use | 87,809 | 0.4% | 0.06 | 15 | \$312 | 81% | 0.73 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|--|-----------|---------|----------|---------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Food | Motors | New | end use | 87,809 | 0.4% | 0.06 | 15 | \$312 | 81% | 0.73 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Food | Motors | ROB | end use | 87,809 | 0.4% | 0.06 | 15 | \$312 | 81% | 0.73 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Food | Motors | Early | end use | 87,809 | 0.4% | 0.05 | 15 | \$103 | 73% | 1.72 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Food | Motors | New | end use | 87,809 | 0.4% | 0.05 | 15 | \$103 | 73% | 1.72 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Food | Motors | ROB | end use | 87,809 | 0.4% | 0.05 | 15 | \$103 | 73% | 1.72 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Food | Motors | Early | end use | 87,809 | 0.9% | 0.11 | 15 | \$154 | 47% | 2.43 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Food | Motors | New | end use | 87,809 | 0.9% | 0.11 | 15 | \$154 | 47% | 2.43 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Food | Motors | ROB | end use | 87,809 | 0.9% | 0.11 | 15 | \$154 | 47% | 2.43 |
| FE-Met Ed | Facility Energy Management | Mfg: Food | Motors | Existing | end use | 87,809 | 1.9% | 0.23 | 2 | \$34 | 77% | 1.21 |
| FE-Met Ed | Facility Energy Management | Mfg: Food | Motors | New | end use | 87,809 | 1.9% | 0.23 | 2 | \$34 | 77% | 1.21 |
| FE-Met Ed | HE Motors | Mfg: Food | Motors | Early | end use | 87,809 | 2.0% | 0.26 | 15 | \$523 | 38% | 1.76 |
| FE-Met Ed | HE Motors | Mfg: Food | Motors | New | end use | 87,809 | 2.0% | 0.26 | 15 | \$523 | 38% | 1.76 |
| FE-Met Ed | HE Motors | Mfg: Food | Motors | ROB | end use | 87,809 | 2.0% | 0.26 | 15 | \$523 | 38% | 1.76 |
| FE-Met Ed | High-Efficiency Ventilation System | Mfg: Food | Motors | Early | end use | 87,809 | 5.7% | 0.71 | 10 | \$5,487 | 73% | 0.39 |
| FE-Met Ed | High-Efficiency Ventilation System | Mfg: Food | Motors | New | end use | 87,809 | 5.7% | 0.71 | 10 | \$5,487 | 73% | 0.39 |
| FE-Met Ed | High-Efficiency Ventilation System | Mfg: Food | Motors | ROB | end use | 87,809 | 5.7% | 0.71 | 10 | \$5,487 | 73% | 0.39 |
| FE-Met Ed | Improved Controls - Motors | Mfg: Food | Motors | Existing | end use | 87,809 | 4.0% | 0.50 | 10 | \$382 | 73% | 2.51 |
| FE-Met Ed | Improved Controls - Motors | Mfg: Food | Motors | New | end use | 87,809 | 4.0% | 0.50 | 10 | \$382 | 73% | 2.51 |
| FE-Met Ed | Motor Management Plan | Mfg: Food | Motors | Existing | end use | 87,809 | 2.9% | 0.36 | 10 | \$179 | 73% | 3.22 |
| FE-Met Ed | Motor Management Plan | Mfg: Food | Motors | New | end use | 87,809 | 2.9% | 0.36 | 10 | \$179 | 73% | 3.22 |
| FE-Met Ed | Motors Other | Mfg: Food | Motors | Existing | end use | 87,809 | 1.1% | 0.14 | 15 | \$17 | 83% | 7.20 |
| FE-Met Ed | Motors Other | Mfg: Food | Motors | New | end use | 87,809 | 1.1% | 0.14 | 15 | \$17 | 83% | 7.20 |
| FE-Met Ed | Motors: Rewind 101-200 HP | Mfg: Food | Motors | Existing | end use | 87,809 | 0.6% | 0.07 | 10 | \$111 | 27% | 1.54 |
| FE-Met Ed | Motors: Rewind 101-200 HP | Mfg: Food | Motors | New | end use | 87,809 | 0.6% | 0.07 | 10 | \$111 | 27% | 1.53 |
| FE-Met Ed | Motors: Rewind 201-500 HP | Mfg: Food | Motors | Existing | end use | 87,809 | 0.6% | 0.07 | 8 | \$70 | 27% | 1.78 |
| FE-Met Ed | Motors: Rewind 201-500 HP | Mfg: Food | Motors | New | end use | 87,809 | 0.5% | 0.07 | 8 | \$70 | 27% | 1.76 |
| FE-Met Ed | Motors: Rewind 20-50 HP | Mfg: Food | Motors | Existing | end use | 87,809 | 1.0% | 0.13 | 11 | \$326 | 42% | 1.15 |
| FE-Met Ed | Motors: Rewind 20-50 HP | Mfg: Food | Motors | New | end use | 87,809 | 1.0% | 0.13 | 11 | \$326 | 42% | 1.16 |
| FE-Met Ed | Motors: Rewind 500+ HP | Mfg: Food | Motors | Existing | end use | 87,809 | 0.6% | 0.07 | 8 | \$50 | 11% | 2.22 |
| FE-Met Ed | Motors: Rewind 500+ HP | Mfg: Food | Motors | New | end use | 87,809 | 0.6% | 0.07 | 8 | \$50 | 11% | 2.22 |
| FE-Met Ed | Motors: Rewind 51-100 HP | Mfg: Food | Motors | Existing | end use | 87,809 | 0.6% | 0.08 | 9 | \$161 | 42% | 1.13 |
| FE-Met Ed | Motors: Rewind 51-100 HP | Mfg: Food | Motors | New | end use | 87,809 | 0.6% | 0.08 | 9 | \$161 | 42% | 1.11 |
| FE-Met Ed | Switch from Belt drive to Direct Drive | Mfg: Food | Motors | Early | end use | 87,809 | 7.5% | 0.94 | 12 | \$1,409 | 30% | 1.84 |
| FE-Met Ed | Switch from Belt drive to Direct Drive | Mfg: Food | Motors | New | end use | 87,809 | 7.5% | 0.94 | 12 | \$1,409 | 30% | 1.84 |
| FE-Met Ed | Switch from Belt drive to Direct Drive | Mfg: Food | Motors | ROB | end use | 87,809 | 7.5% | 0.94 | 12 | \$1,409 | 30% | 1.84 |
| FE-Met Ed | Synchronous Belts | Mfg: Food | Motors | Early | end use | 87,809 | 1.2% | 0.15 | 10 | \$129 | 30% | 2.30 |
| FE-Met Ed | Synchronous Belts | Mfg: Food | Motors | New | end use | 87,809 | 1.2% | 0.15 | 10 | \$129 | 30% | 2.30 |
| FE-Met Ed | Synchronous Belts | Mfg: Food | Motors | ROB | end use | 87,809 | 1.2% | 0.15 | 10 | \$129 | 30% | 2.30 |
| FE-Met Ed | Bldg Improvements | Mfg: Food | Other | Existing | end use | 60,193 | 16% | 1.16 | 15 | \$1,312 | 72% | 3.03 |
| FE-Met Ed | Bldg Improvements | Mfg: Food | Other | New | end use | 60,193 | 16% | 1.16 | 15 | \$1,312 | 72% | 3.03 |
| FE-Met Ed | Energy Project Management | Mfg: Food | Other | Existing | end use | 60,193 | 29% | 2.08 | 11 | \$2,149 | 63% | 2.45 |
| FE-Met Ed | Energy Project Management | Mfg: Food | Other | New | end use | 60,193 | 29% | 2.08 | 11 | \$2,149 | 63% | 2.45 |
| FE-Met Ed | Facility Energy Management | Mfg: Food | Other | Existing | end use | 60,193 | 1.9% | 0.13 | 2 | \$23 | 76% | 1.17 |
| FE-Met Ed | Facility Energy Management | Mfg: Food | Other | New | end use | 60,193 | 1.9% | 0.13 | 2 | \$23 | 76% | 1.17 |
| FE-Met Ed | Integrated Plant Energy Management | Mfg: Food | Other | Existing | end use | 60,193 | 50% | 3.58 | 11 | \$5,933 | 48% | 1.78 |
| FE-Met Ed | Integrated Plant Energy Management | Mfg: Food | Other | New | end use | 60,193 | 50% | 3.58 | 11 | \$5,933 | 48% | 1.78 |
| FE-Met Ed | Plant Energy Management | Mfg: Food | Other | Existing | end use | 60,193 | 12% | 0.86 | 10 | \$151 | 55% | 4.84 |
| FE-Met Ed | Plant Energy Management | Mfg: Food | Other | New | end use | 60,193 | 12% | 0.86 | 10 | \$151 | 55% | 4.84 |
| FE-Met Ed | Transformers | Mfg: Food | Other | Early | end use | 60,193 | 1.6% | 0.11 | 15 | \$192 | 34% | 2.27 |
| FE-Met Ed | Transformers | Mfg: Food | Other | New | end use | 60,193 | 1.6% | 0.11 | 15 | \$192 | 34% | 2.27 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|-------------------------------------|-----------|------------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Transformers | Mfg: Food | Other | ROB | end use | 60,193 | 1.6% | 0.11 | 15 | \$192 | 34% | 2.27 |
| FE-Met Ed | Air Compressor Demand Reduction | Mfg: Food | Process Air Compressor | Existing | end use | 989 | 26% | 0.03 | 10 | \$15 | 52% | 3.47 |
| FE-Met Ed | Air Compressor Demand Reduction | Mfg: Food | Process Air Compressor | New | end use | 989 | 26% | 0.03 | 10 | \$15 | 52% | 3.47 |
| FE-Met Ed | Air Compressor Equipment | Mfg: Food | Process Air Compressor | Early | end use | 989 | 39% | 0.05 | 10 | \$18 | 73% | 3.81 |
| FE-Met Ed | Air Compressor Equipment | Mfg: Food | Process Air Compressor | New | end use | 989 | 39% | 0.05 | 10 | \$18 | 73% | 3.81 |
| FE-Met Ed | Air Compressor Equipment | Mfg: Food | Process Air Compressor | ROB | end use | 989 | 39% | 0.05 | 10 | \$18 | 73% | 3.81 |
| FE-Met Ed | Air Compressor Optimization | Mfg: Food | Process Air Compressor | Existing | end use | 989 | 39% | 0.05 | 10 | \$43 | 55% | 2.47 |
| FE-Met Ed | Air Compressor Optimization | Mfg: Food | Process Air Compressor | New | end use | 989 | 39% | 0.05 | 10 | \$43 | 55% | 2.47 |
| FE-Met Ed | Facility Energy Management | Mfg: Food | Process Air Compressor | Existing | end use | 989 | 1.9% | 0.00 | 2 | \$0.4 | 62% | 1.19 |
| FE-Met Ed | Facility Energy Management | Mfg: Food | Process Air Compressor | New | end use | 989 | 1.9% | 0.00 | 2 | \$0.4 | 62% | 1.19 |
| FE-Met Ed | HE Compressor motors | Mfg: Food | Process Air Compressor | Early | end use | 989 | 1.1% | 0.00 | 15 | \$3.7 | 73% | 1.52 |
| FE-Met Ed | HE Compressor motors | Mfg: Food | Process Air Compressor | New | end use | 989 | 1.1% | 0.00 | 15 | \$3.7 | 73% | 1.52 |
| FE-Met Ed | HE Compressor motors | Mfg: Food | Process Air Compressor | ROB | end use | 989 | 1.1% | 0.00 | 15 | \$3.7 | 73% | 1.52 |
| FE-Met Ed | Improved Controls - Air Compressor | Mfg: Food | Process Air Compressor | Existing | end use | 989 | 41% | 0.05 | 10 | \$18 | 25% | 3.91 |
| FE-Met Ed | Improved Controls - Air Compressor | Mfg: Food | Process Air Compressor | New | end use | 989 | 41% | 0.05 | 10 | \$18 | 25% | 3.91 |
| FE-Met Ed | Low Pressure-drop Filters | Mfg: Food | Process Air Compressor | Existing | end use | 989 | 1.8% | 0.00 | 10 | \$11 | 61% | 0.65 |
| FE-Met Ed | Low Pressure-drop Filters | Mfg: Food | Process Air Compressor | New | end use | 989 | 1.9% | 0.00 | 10 | \$11 | 61% | 0.65 |
| FE-Met Ed | Outside Air Intake | Mfg: Food | Process Air Compressor | Existing | end use | 989 | 1.4% | 0.00 | 10 | \$6.5 | 48% | 0.85 |
| FE-Met Ed | Outside Air Intake | Mfg: Food | Process Air Compressor | New | end use | 989 | 1.4% | 0.00 | 10 | \$6.5 | 48% | 0.84 |
| FE-Met Ed | Receiver Capacity Addition | Mfg: Food | Process Air Compressor | Existing | end use | 989 | 6.0% | 0.01 | 10 | \$18 | 36% | 1.17 |
| FE-Met Ed | Receiver Capacity Addition | Mfg: Food | Process Air Compressor | New | end use | 989 | 5.9% | 0.01 | 10 | \$18 | 36% | 1.17 |
| FE-Met Ed | Refrigerated Cycling Dryers | Mfg: Food | Process Air Compressor | Early | end use | 989 | 1.7% | 0.00 | 10 | \$2.3 | 21% | 2.14 |
| FE-Met Ed | Refrigerated Cycling Dryers | Mfg: Food | Process Air Compressor | New | end use | 989 | 1.7% | 0.00 | 10 | \$2.3 | 21% | 2.14 |
| FE-Met Ed | Refrigerated Cycling Dryers | Mfg: Food | Process Air Compressor | ROB | end use | 989 | 1.7% | 0.00 | 10 | \$2.3 | 21% | 2.14 |
| FE-Met Ed | VFD Controlled Compressor | Mfg: Food | Process Air Compressor | Early | end use | 989 | 24% | 0.03 | 10 | \$97 | 28% | 0.92 |
| FE-Met Ed | VFD Controlled Compressor | Mfg: Food | Process Air Compressor | New | end use | 989 | 24% | 0.03 | 10 | \$97 | 28% | 0.92 |
| FE-Met Ed | VFD Controlled Compressor | Mfg: Food | Process Air Compressor | ROB | end use | 989 | 24% | 0.03 | 10 | \$97 | 28% | 0.92 |
| FE-Met Ed | Zero Loss Condensate Drain | Mfg: Food | Process Air Compressor | Early | end use | 989 | 1.8% | 0.00 | 10 | \$5.7 | 36% | 1.12 |
| FE-Met Ed | Zero Loss Condensate Drain | Mfg: Food | Process Air Compressor | New | end use | 989 | 1.8% | 0.00 | 10 | \$5.7 | 36% | 1.12 |
| FE-Met Ed | Zero Loss Condensate Drain | Mfg: Food | Process Air Compressor | ROB | end use | 989 | 1.8% | 0.00 | 10 | \$5.7 | 36% | 1.12 |
| FE-Met Ed | Cooling Tower Optimization | Mfg: Food | Process Cooling | Existing | building | 329,347 | 20% | 23.58 | 10 | \$2,020 | 23% | 5.47 |
| FE-Met Ed | Equipment: Chillers | Mfg: Food | Process Cooling | Early | end use | 329,347 | 18% | 12.28 | 15 | \$15,457 | 68% | 2.02 |
| FE-Met Ed | Equipment: Chillers | Mfg: Food | Process Cooling | New | end use | 329,347 | 18% | 12.28 | 15 | \$15,457 | 68% | 2.02 |
| FE-Met Ed | Equipment: Chillers | Mfg: Food | Process Cooling | ROB | end use | 329,347 | 18% | 12.28 | 15 | \$15,457 | 68% | 2.02 |
| FE-Met Ed | Facility Energy Management | Mfg: Food | Process Cooling | Existing | end use | 329,347 | 1.9% | 1.26 | 2 | \$127 | 86% | 1.27 |
| FE-Met Ed | Facility Energy Management | Mfg: Food | Process Cooling | New | end use | 329,347 | 1.9% | 1.26 | 2 | \$127 | 86% | 1.27 |
| FE-Met Ed | Food: Refrig Storage Tuneup | Mfg: Food | Process Cooling | Existing | end use | 329,347 | 14% | 9.86 | 3 | \$2,055 | 59% | 1.49 |
| FE-Met Ed | Food: Refrig Storage Tuneup | Mfg: Food | Process Cooling | New | end use | 329,347 | 14% | 9.86 | 3 | \$2,055 | 59% | 1.49 |
| FE-Met Ed | Fruit Storage Refer Retrofit | Mfg: Food | Process Cooling | Existing | end use | 329,347 | 38% | 26.24 | 10 | \$21,294 | 32% | 2.00 |
| FE-Met Ed | Fruit Storage Refer Retrofit | Mfg: Food | Process Cooling | New | end use | 329,347 | 38% | 26.24 | 10 | \$21,294 | 32% | 2.00 |
| FE-Met Ed | Fruit Storage Tuneup | Mfg: Food | Process Cooling | Existing | end use | 329,347 | 16% | 10.72 | 3 | \$2,234 | 32% | 1.49 |
| FE-Met Ed | Fruit Storage Tuneup | Mfg: Food | Process Cooling | New | end use | 329,347 | 16% | 10.72 | 3 | \$2,234 | 32% | 1.49 |
| FE-Met Ed | Improved Controls - Process Cooling | Mfg: Food | Process Cooling | Existing | end use | 329,347 | 6.0% | 4.12 | 10 | \$17,390 | 81% | 0.50 |
| FE-Met Ed | Improved Controls - Process Cooling | Mfg: Food | Process Cooling | New | end use | 329,347 | 6.0% | 4.12 | 10 | \$17,390 | 81% | 0.50 |
| FE-Met Ed | VFD on Cooling Tower Fan | Mfg: Food | Process Cooling | Early | motor | 329,347 | 21% | 20.72 | 15 | \$15,174 | 24% | 2.54 |
| FE-Met Ed | VFD on Cooling Tower Fan | Mfg: Food | Process Cooling | New | motor | 329,347 | 22% | 20.72 | 15 | \$15,464 | 24% | 2.53 |
| FE-Met Ed | VFD on Cooling Tower Fan | Mfg: Food | Process Cooling | ROB | motor | 329,347 | 22% | 20.72 | 15 | \$15,464 | 24% | 2.53 |
| FE-Met Ed | Improved Controls - Process Heating | Mfg: Food | Process Heating | Existing | end use | 87,504 | 17% | 2.06 | 10 | \$1,005 | 77% | 3.24 |
| FE-Met Ed | Improved Controls - Process Heating | Mfg: Food | Process Heating | New | end use | 87,504 | 17% | 2.06 | 10 | \$1,005 | 77% | 3.24 |
| FE-Met Ed | Process Heat O&M | Mfg: Food | Process Heating | Existing | end use | 87,504 | 16% | 1.94 | 2 | \$608 | 77% | 0.95 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---------------------------------------|-------------|-----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Process Heat O&M | Mfg: Food | Process Heating | New | end use | 87,504 | 16% | 1.94 | 2 | \$608 | 77% | 0.95 |
| FE-Met Ed | Facility Energy Management | Mfg: Food | Process Other | Existing | end use | 8,431 | 1.9% | 0.02 | 2 | \$3.2 | 73% | 1.19 |
| FE-Met Ed | Facility Energy Management | Mfg: Food | Process Other | New | end use | 8,431 | 1.9% | 0.02 | 2 | \$3.2 | 73% | 1.19 |
| FE-Met Ed | Adjustable speed drive on compressors | Mfg: Food | Process Refrigeration | Early | end use | 169,183 | 12% | 2.89 | 10 | \$3,129 | 81% | 1.99 |
| FE-Met Ed | Adjustable speed drive on compressors | Mfg: Food | Process Refrigeration | New | end use | 169,183 | 12% | 2.89 | 10 | \$3,129 | 81% | 1.99 |
| FE-Met Ed | Adjustable speed drive on compressors | Mfg: Food | Process Refrigeration | ROB | end use | 169,183 | 12% | 2.89 | 10 | \$3,129 | 81% | 1.99 |
| FE-Met Ed | Cold Storage Retrofit | Mfg: Food | Process Refrigeration | Existing | end use | 169,183 | 18% | 4.52 | 10 | \$5,276 | 73% | 1.87 |
| FE-Met Ed | Cold Storage Retrofit | Mfg: Food | Process Refrigeration | New | end use | 169,183 | 18% | 4.52 | 10 | \$5,276 | 73% | 1.87 |
| FE-Met Ed | Cold Storage Tuneup | Mfg: Food | Process Refrigeration | Existing | end use | 169,183 | 13% | 3.34 | 3 | \$1,290 | 73% | 1.25 |
| FE-Met Ed | Cold Storage Tuneup | Mfg: Food | Process Refrigeration | New | end use | 169,183 | 13% | 3.34 | 3 | \$1,290 | 73% | 1.25 |
| FE-Met Ed | Cooling Tower Optimization | Mfg: Food | Process Refrigeration | Existing | building | 169,183 | 20% | 12.11 | 10 | \$1,038 | 23% | 5.47 |
| FE-Met Ed | Food: Cooling and Storage | Mfg: Food | Process Refrigeration | Existing | end use | 169,183 | 15% | 3.72 | 10 | \$7,613 | 73% | 1.22 |
| FE-Met Ed | Food: Cooling and Storage | Mfg: Food | Process Refrigeration | New | end use | 169,183 | 15% | 3.72 | 10 | \$7,613 | 73% | 1.22 |
| FE-Met Ed | Optimization of operating parameters | Mfg: Food | Process Refrigeration | Existing | end use | 169,183 | 13% | 3.24 | 3 | \$1,366 | 73% | 1.20 |
| FE-Met Ed | Optimization of operating parameters | Mfg: Food | Process Refrigeration | New | end use | 169,183 | 13% | 3.24 | 3 | \$1,366 | 73% | 1.21 |
| FE-Met Ed | Synchronous Belts | Mfg: Food | Process Refrigeration | Early | end use | 169,183 | 1.2% | 0.29 | 10 | \$249 | 81% | 2.31 |
| FE-Met Ed | Synchronous Belts | Mfg: Food | Process Refrigeration | New | end use | 169,183 | 1.2% | 0.29 | 10 | \$249 | 81% | 2.31 |
| FE-Met Ed | Synchronous Belts | Mfg: Food | Process Refrigeration | ROB | end use | 169,183 | 1.2% | 0.29 | 10 | \$249 | 81% | 2.31 |
| FE-Met Ed | VFD on Cooling Tower Fan | Mfg: Food | Process Refrigeration | Early | motor | 169,183 | 21% | 10.65 | 15 | \$7,795 | 24% | 2.54 |
| FE-Met Ed | VFD on Cooling Tower Fan | Mfg: Food | Process Refrigeration | New | motor | 169,183 | 22% | 10.65 | 15 | \$7,944 | 24% | 2.53 |
| FE-Met Ed | VFD on Cooling Tower Fan | Mfg: Food | Process Refrigeration | ROB | motor | 169,183 | 22% | 10.65 | 15 | \$7,944 | 24% | 2.53 |
| FE-Met Ed | Facility Energy Management | Mfg: Food | Pumps | Existing | end use | 492,217 | 1.9% | 1.18 | 2 | \$190 | 65% | 1.22 |
| FE-Met Ed | Facility Energy Management | Mfg: Food | Pumps | New | end use | 492,217 | 1.9% | 1.18 | 2 | \$190 | 65% | 1.22 |
| FE-Met Ed | HE Motors | Mfg: Food | Pumps | Early | end use | 492,217 | 2.0% | 1.31 | 15 | \$2,930 | 69% | 1.74 |
| FE-Met Ed | HE Motors | Mfg: Food | Pumps | New | end use | 492,217 | 2.0% | 1.31 | 15 | \$2,930 | 69% | 1.74 |
| FE-Met Ed | HE Motors | Mfg: Food | Pumps | ROB | end use | 492,217 | 2.0% | 1.31 | 15 | \$2,930 | 69% | 1.74 |
| FE-Met Ed | Motor rewinds | Mfg: Food | Pumps | Existing | end use | 492,217 | 0.6% | 0.38 | 9 | \$700 | 11% | 1.37 |
| FE-Met Ed | Motor rewinds | Mfg: Food | Pumps | New | end use | 492,217 | 0.6% | 0.38 | 9 | \$700 | 11% | 1.37 |
| FE-Met Ed | Pump Equipment Upgrade | Mfg: Food | Pumps | Early | end use | 492,217 | 20% | 12.81 | 12 | \$12,305 | 77% | 2.64 |
| FE-Met Ed | Pump Equipment Upgrade | Mfg: Food | Pumps | New | end use | 492,217 | 20% | 12.81 | 12 | \$12,305 | 77% | 2.64 |
| FE-Met Ed | Pump Equipment Upgrade | Mfg: Food | Pumps | ROB | end use | 492,217 | 20% | 12.81 | 12 | \$12,305 | 77% | 2.64 |
| FE-Met Ed | Pump System Optimization | Mfg: Food | Pumps | Existing | end use | 492,217 | 8.7% | 5.57 | 12 | \$9,012 | 36% | 1.88 |
| FE-Met Ed | Pump System Optimization | Mfg: Food | Pumps | New | end use | 492,217 | 8.7% | 5.57 | 12 | \$9,012 | 36% | 1.88 |
| FE-Met Ed | Synchronous Belts | Mfg: Food | Pumps | Early | end use | 492,217 | 1.2% | 0.75 | 10 | \$725 | 57% | 2.27 |
| FE-Met Ed | Synchronous Belts | Mfg: Food | Pumps | New | end use | 492,217 | 1.2% | 0.75 | 10 | \$725 | 57% | 2.27 |
| FE-Met Ed | Synchronous Belts | Mfg: Food | Pumps | ROB | end use | 492,217 | 1.2% | 0.75 | 10 | \$725 | 57% | 2.27 |
| FE-Met Ed | Circulating Fans | Mfg: Metals | Fans | Early | end use | 200,596 | 5.0% | 1.19 | 10 | \$1,221 | 68% | 2.35 |
| FE-Met Ed | Circulating Fans | Mfg: Metals | Fans | New | end use | 200,596 | 5.0% | 1.19 | 10 | \$1,221 | 68% | 2.36 |
| FE-Met Ed | Circulating Fans | Mfg: Metals | Fans | ROB | end use | 200,596 | 5.0% | 1.19 | 10 | \$1,221 | 68% | 2.35 |
| FE-Met Ed | Facility Energy Management | Mfg: Metals | Fans | Existing | end use | 200,596 | 1.9% | 0.44 | 2 | \$77 | 77% | 1.20 |
| FE-Met Ed | Facility Energy Management | Mfg: Metals | Fans | New | end use | 200,596 | 1.9% | 0.44 | 2 | \$77 | 77% | 1.21 |
| FE-Met Ed | HE Motors | Mfg: Metals | Fans | Early | end use | 200,596 | 2.0% | 0.49 | 15 | \$1,194 | 77% | 1.77 |
| FE-Met Ed | HE Motors | Mfg: Metals | Fans | New | end use | 200,596 | 2.0% | 0.49 | 15 | \$1,194 | 77% | 1.77 |
| FE-Met Ed | HE Motors | Mfg: Metals | Fans | ROB | end use | 200,596 | 2.0% | 0.49 | 15 | \$1,194 | 77% | 1.77 |
| FE-Met Ed | Improved Controls - Fans | Mfg: Metals | Fans | Existing | end use | 200,596 | 7.1% | 1.70 | 10 | \$778 | 60% | 3.62 |
| FE-Met Ed | Improved Controls - Fans | Mfg: Metals | Fans | New | end use | 200,596 | 7.1% | 1.70 | 10 | \$778 | 60% | 3.62 |
| FE-Met Ed | Properly Sized Fans | Mfg: Metals | Fans | Early | end use | 200,596 | 13% | 3.14 | 10 | \$4,108 | 41% | 2.00 |
| FE-Met Ed | Properly Sized Fans | Mfg: Metals | Fans | New | end use | 200,596 | 13% | 3.14 | 10 | \$4,108 | 41% | 2.00 |
| FE-Met Ed | Properly Sized Fans | Mfg: Metals | Fans | ROB | end use | 200,596 | 13% | 3.14 | 10 | \$4,108 | 41% | 2.00 |
| FE-Met Ed | Synchronous Belts | Mfg: Metals | Fans | Early | end use | 200,596 | 1.2% | 0.28 | 10 | \$296 | 41% | 2.30 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|--|-------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Synchronous Belts | Mfg: Metals | Fans | New | end use | 200,596 | 1.2% | 0.28 | 10 | \$296 | 41% | 2.30 |
| FE-Met Ed | Synchronous Belts | Mfg: Metals | Fans | ROB | end use | 200,596 | 1.2% | 0.28 | 10 | \$296 | 41% | 2.30 |
| FE-Met Ed | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Metals | HVAC | Early | unit (ton) | 116,851 | 9.2% | 2.78 | 15 | \$21,286 | 28% | 0.36 |
| FE-Met Ed | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Metals | HVAC | New | unit (ton) | 116,851 | 4.1% | 1.25 | 15 | \$5,157 | 28% | 0.64 |
| FE-Met Ed | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Metals | HVAC | ROB | unit (ton) | 116,851 | 4.1% | 1.25 | 15 | \$5,157 | 28% | 0.64 |
| FE-Met Ed | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Metals | HVAC | Early | unit (ton) | 116,851 | 12% | 3.76 | 15 | \$25,094 | 28% | 0.41 |
| FE-Met Ed | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Metals | HVAC | New | unit (ton) | 116,851 | 7.7% | 2.33 | 15 | \$10,862 | 28% | 0.57 |
| FE-Met Ed | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Metals | HVAC | ROB | unit (ton) | 116,851 | 7.7% | 2.33 | 15 | \$10,862 | 28% | 0.57 |
| FE-Met Ed | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Metals | HVAC | Early | unit (ton) | 116,851 | 15% | 4.62 | 15 | \$28,902 | 29% | 0.43 |
| FE-Met Ed | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Metals | HVAC | New | unit (ton) | 116,851 | 11% | 3.28 | 15 | \$16,567 | 29% | 0.53 |
| FE-Met Ed | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Metals | HVAC | ROB | unit (ton) | 116,851 | 11% | 3.28 | 15 | \$16,567 | 29% | 0.53 |
| FE-Met Ed | >760k min 10.2 EER Air Conditioner | Mfg: Metals | HVAC | Early | unit (ton) | 116,851 | 2.1% | 0.64 | 15 | \$37,068 | 35% | 0.05 |
| FE-Met Ed | >760k min 10.2 EER Air Conditioner | Mfg: Metals | HVAC | New | unit (ton) | 116,851 | 2.8% | 0.86 | 15 | \$3,350 | 35% | 0.68 |
| FE-Met Ed | >760k min 10.2 EER Air Conditioner | Mfg: Metals | HVAC | ROB | unit (ton) | 116,851 | 2.8% | 0.86 | 15 | \$3,350 | 35% | 0.68 |
| FE-Met Ed | 135-240k min 12 EER Air Conditioner | Mfg: Metals | HVAC | Early | unit (ton) | 116,851 | 10% | 3.17 | 15 | \$40,139 | 35% | 0.22 |
| FE-Met Ed | 135-240k min 12 EER Air Conditioner | Mfg: Metals | HVAC | New | unit (ton) | 116,851 | 5.8% | 1.75 | 15 | \$4,739 | 35% | 0.95 |
| FE-Met Ed | 135-240k min 12 EER Air Conditioner | Mfg: Metals | HVAC | ROB | unit (ton) | 116,851 | 5.8% | 1.75 | 15 | \$4,739 | 35% | 0.95 |
| FE-Met Ed | 240k-760k min 11 EER Air Conditioner | Mfg: Metals | HVAC | Early | unit (ton) | 116,851 | 5.2% | 1.58 | 15 | \$37,091 | 35% | 0.12 |
| FE-Met Ed | 240k-760k min 11 EER Air Conditioner | Mfg: Metals | HVAC | New | unit (ton) | 116,851 | 5.3% | 1.62 | 15 | \$3,974 | 35% | 1.04 |
| FE-Met Ed | 240k-760k min 11 EER Air Conditioner | Mfg: Metals | HVAC | ROB | unit (ton) | 116,851 | 5.3% | 1.62 | 15 | \$3,974 | 35% | 1.04 |
| FE-Met Ed | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Metals | HVAC | Early | unit (ton) | 116,851 | 9.7% | 2.94 | 15 | \$41,098 | 35% | 0.20 |
| FE-Met Ed | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Metals | HVAC | New | unit (ton) | 116,851 | 3.8% | 1.17 | 15 | \$5,864 | 35% | 0.53 |
| FE-Met Ed | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Metals | HVAC | ROB | unit (ton) | 116,851 | 3.8% | 1.17 | 15 | \$5,864 | 35% | 0.53 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Mfg: Metals | HVAC | Existing | building | 116,851 | 5.9% | 1.74 | 15 | \$354,038 | 71% | 0.01 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Mfg: Metals | HVAC | New | building | 116,851 | 3.7% | 1.09 | 15 | \$336,524 | 94% | 0.01 |
| FE-Met Ed | Chiller Tuneup/Diagnostics | Mfg: Metals | HVAC | Existing | building | 116,851 | 8.0% | 3.43 | 10 | \$298,372 | 59% | 0.02 |
| FE-Met Ed | Chiller Tuneup/Diagnostics | Mfg: Metals | HVAC | New | building | 116,851 | 8.0% | 3.43 | 10 | \$298,372 | 59% | 0.02 |
| FE-Met Ed | Cooling Tower Optimization | Mfg: Metals | HVAC | Existing | building | 116,851 | 20% | 8.36 | 10 | \$717 | 14% | 5.42 |
| FE-Met Ed | Duct Insulation, Add R8 | Mfg: Metals | HVAC | Existing | building | 116,851 | 1.5% | 0.37 | 15 | \$928 | 18% | 1.20 |
| FE-Met Ed | Duct Insulation, Add R8 | Mfg: Metals | HVAC | New | building | 116,851 | 1.5% | 0.37 | 15 | \$928 | 9% | 1.20 |
| FE-Met Ed | Ductless Heat Pump | Mfg: Metals | HVAC | Early | heat pump | 116,851 | 0.8% | 0.22 | 15 | \$9,281 | 83% | 0.07 |
| FE-Met Ed | Ductless Heat Pump | Mfg: Metals | HVAC | New | heat pump | 116,851 | 0.4% | 0.12 | 15 | \$2,695 | 83% | 0.13 |
| FE-Met Ed | Ductless Heat Pump | Mfg: Metals | HVAC | ROB | heat pump | 116,851 | 0.4% | 0.12 | 15 | \$2,695 | 83% | 0.13 |
| FE-Met Ed | DX Coil Cleaning | Mfg: Metals | HVAC | Existing | building | 116,851 | 13% | 5.36 | 1 | \$1,120 | 73% | 0.52 |
| FE-Met Ed | DX Coil Cleaning | Mfg: Metals | HVAC | New | building | 116,851 | 13% | 5.36 | 1 | \$1,120 | 73% | 0.52 |
| FE-Met Ed | Efficient Unit Heating System | Mfg: Metals | HVAC | Early | heater | 116,851 | 6.9% | 0.07 | 15 | \$6,294 | 83% | 0.63 |
| FE-Met Ed | Efficient Unit Heating System | Mfg: Metals | HVAC | New | heater | 116,851 | 4.0% | 0.04 | 15 | \$4,293 | 83% | 0.53 |
| FE-Met Ed | Efficient Unit Heating System | Mfg: Metals | HVAC | ROB | heater | 116,851 | 4.0% | 0.04 | 15 | \$4,293 | 83% | 0.53 |
| FE-Met Ed | Ground Source Heat Pump (Closed Loop) | Mfg: Metals | HVAC | Early | heat pump | 116,851 | 1.3% | 0.34 | 15 | \$19,270 | 19% | 0.05 |
| FE-Met Ed | Ground Source Heat Pump (Closed Loop) | Mfg: Metals | HVAC | New | heat pump | 116,851 | 1.0% | 0.27 | 15 | \$7,609 | 19% | 0.11 |
| FE-Met Ed | Ground Source Heat Pump (Closed Loop) | Mfg: Metals | HVAC | ROB | heat pump | 116,851 | 1.0% | 0.27 | 15 | \$7,609 | 19% | 0.11 |
| FE-Met Ed | Ground Source Heat Pump (Open Loop) | Mfg: Metals | HVAC | Early | heat pump | 116,851 | 1.3% | 0.34 | 15 | \$12,342 | 19% | 0.08 |
| FE-Met Ed | Ground Source Heat Pump (Open Loop) | Mfg: Metals | HVAC | New | heat pump | 116,851 | 1.0% | 0.27 | 15 | \$262 | 19% | 2.35 |
| FE-Met Ed | Ground Source Heat Pump (Open Loop) | Mfg: Metals | HVAC | ROB | heat pump | 116,851 | 1.0% | 0.27 | 15 | \$262 | 19% | 2.35 |
| FE-Met Ed | HE Air Cooled Chiller, 100 Tons | Mfg: Metals | HVAC | Early | unit (ton) | 116,851 | 1.5% | 0.39 | 15 | \$137,376 | 89% | 0.01 |
| FE-Met Ed | HE Air Cooled Chiller, 100 Tons | Mfg: Metals | HVAC | New | unit (ton) | 116,851 | 0.4% | 0.11 | 15 | \$20,013 | 89% | 0.02 |
| FE-Met Ed | HE Air Cooled Chiller, 100 Tons | Mfg: Metals | HVAC | ROB | unit (ton) | 116,851 | 0.4% | 0.11 | 15 | \$20,013 | 89% | 0.02 |
| FE-Met Ed | HE Air Cooled Chiller, 150 Tons | Mfg: Metals | HVAC | Early | unit (ton) | 116,851 | 1.5% | 0.38 | 15 | \$118,662 | 89% | 0.01 |
| FE-Met Ed | HE Air Cooled Chiller, 150 Tons | Mfg: Metals | HVAC | New | unit (ton) | 116,851 | 0.3% | 0.08 | 15 | \$9,828 | 89% | 0.03 |
| FE-Met Ed | HE Air Cooled Chiller, 150 Tons | Mfg: Metals | HVAC | ROB | unit (ton) | 116,851 | 0.3% | 0.08 | 15 | \$9,828 | 89% | 0.03 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|-------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Metals | HVAC | Early | heat pump | 116,851 | 1.4% | 0.36 | 12 | \$5,030 | 81% | 0.17 |
| FE-Met Ed | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Metals | HVAC | Early | heat pump | 116,851 | 1.1% | 0.30 | 12 | \$3,675 | 81% | 0.20 |
| FE-Met Ed | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Metals | HVAC | New | heat pump | 116,851 | 1.0% | 0.27 | 12 | \$2,246 | 81% | 0.29 |
| FE-Met Ed | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Metals | HVAC | New | heat pump | 116,851 | 0.8% | 0.20 | 12 | \$785 | 81% | 0.59 |
| FE-Met Ed | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Metals | HVAC | ROB | heat pump | 116,851 | 1.0% | 0.27 | 12 | \$2,246 | 81% | 0.29 |
| FE-Met Ed | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Metals | HVAC | ROB | heat pump | 116,851 | 0.8% | 0.20 | 12 | \$785 | 81% | 0.59 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Metals | HVAC | Early | unit (ton) | 116,851 | 1.6% | 0.42 | 15 | \$10,900 | 89% | 0.12 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Metals | HVAC | New | unit (ton) | 116,851 | 0.9% | 0.24 | 15 | \$3,625 | 89% | 0.21 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Metals | HVAC | ROB | unit (ton) | 116,851 | 0.9% | 0.24 | 15 | \$3,625 | 89% | 0.21 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Metals | HVAC | Early | unit (ton) | 116,851 | 1.4% | 0.37 | 15 | \$10,645 | 89% | 0.11 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Metals | HVAC | New | unit (ton) | 116,851 | 1.0% | 0.26 | 15 | \$2,079 | 89% | 0.38 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Metals | HVAC | ROB | unit (ton) | 116,851 | 1.4% | 0.37 | 15 | \$1,910 | 89% | 0.58 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Metals | HVAC | Early | unit (ton) | 116,851 | 1.4% | 0.37 | 15 | \$12,600 | 89% | 0.09 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Metals | HVAC | New | unit (ton) | 116,851 | 0.9% | 0.24 | 15 | \$5,305 | 89% | 0.14 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Metals | HVAC | ROB | unit (ton) | 116,851 | 1.4% | 0.37 | 15 | \$4,801 | 89% | 0.24 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Metals | HVAC | Early | unit (ton) | 116,851 | 1.4% | 0.37 | 15 | \$12,137 | 89% | 0.10 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Metals | HVAC | New | unit (ton) | 116,851 | 0.9% | 0.24 | 15 | \$4,611 | 89% | 0.16 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Metals | HVAC | ROB | unit (ton) | 116,851 | 1.4% | 0.37 | 15 | \$4,173 | 89% | 0.27 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Metals | HVAC | Early | unit (ton) | 116,851 | 1.8% | 0.48 | 15 | \$13,078 | 89% | 0.11 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Metals | HVAC | New | unit (ton) | 116,851 | 0.6% | 0.15 | 15 | \$8,098 | 89% | 0.06 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Metals | HVAC | ROB | unit (ton) | 116,851 | 1.8% | 0.48 | 15 | \$6,288 | 89% | 0.24 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Metals | HVAC | Early | unit (ton) | 116,851 | 2.2% | 0.57 | 15 | \$12,029 | 89% | 0.15 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Metals | HVAC | New | unit (ton) | 116,851 | 0.8% | 0.21 | 15 | \$4,827 | 89% | 0.13 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Metals | HVAC | ROB | unit (ton) | 116,851 | 0.8% | 0.21 | 15 | \$4,827 | 89% | 0.13 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Metals | HVAC | Early | unit (ton) | 116,851 | 2.4% | 0.64 | 15 | \$10,195 | 89% | 0.19 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Metals | HVAC | New | unit (ton) | 116,851 | 0.9% | 0.24 | 15 | \$2,565 | 89% | 0.29 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Metals | HVAC | ROB | unit (ton) | 116,851 | 2.4% | 0.64 | 15 | \$1,829 | 89% | 1.00 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Metals | HVAC | Early | unit (ton) | 116,851 | 1.8% | 0.48 | 15 | \$10,092 | 89% | 0.15 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Metals | HVAC | New | unit (ton) | 116,851 | 0.7% | 0.18 | 15 | \$2,826 | 89% | 0.20 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Metals | HVAC | ROB | unit (ton) | 116,851 | 1.8% | 0.48 | 15 | \$2,239 | 89% | 0.64 |
| FE-Met Ed | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Metals | HVAC | Existing | building | 116,851 | 2.9% | 0.69 | 5 | \$1,240 | 55% | 0.63 |
| FE-Met Ed | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Metals | HVAC | New | building | 116,851 | 0.6% | 0.27 | 5 | \$744 | 51% | 0.30 |
| FE-Met Ed | Improved Controls - HVAC | Mfg: Metals | HVAC | Existing | end use | 116,851 | 21% | 3.50 | 10 | \$1,229 | 76% | 3.87 |
| FE-Met Ed | Improved Controls - HVAC | Mfg: Metals | HVAC | New | end use | 116,851 | 21% | 3.50 | 10 | \$1,229 | 76% | 3.87 |
| FE-Met Ed | Outside Air Economizer | Mfg: Metals | HVAC | Existing | building | 116,851 | 1.1% | 0.33 | 10 | \$429,331 | 82% | 0.00 |
| FE-Met Ed | Outside Air Economizer | Mfg: Metals | HVAC | New | building | 116,851 | 1.1% | 0.33 | 10 | \$429,331 | 82% | 0.00 |
| FE-Met Ed | Recommissioning | Mfg: Metals | HVAC | Existing | end use | 116,851 | 5.0% | 0.84 | 10 | \$160 | 88% | 4.78 |
| FE-Met Ed | Recommissioning | Mfg: Metals | HVAC | New | end use | 116,851 | 5.0% | 0.84 | 10 | \$160 | 88% | 4.78 |
| FE-Met Ed | Room AC (with louvered sides) | Mfg: Metals | HVAC | Early | unit (ton) | 116,851 | 7.7% | 2.03 | 9 | \$9,159 | 78% | 0.43 |
| FE-Met Ed | Room AC (with louvered sides) | Mfg: Metals | HVAC | New | unit (ton) | 116,851 | 2.6% | 0.68 | 9 | \$501 | 78% | 1.97 |
| FE-Met Ed | Room AC (with louvered sides) | Mfg: Metals | HVAC | ROB | unit (ton) | 116,851 | 2.6% | 0.68 | 9 | \$501 | 78% | 1.97 |
| FE-Met Ed | Variable Refrigerant Flow Heat Pump | Mfg: Metals | HVAC | New | measure | 116,851 | 0.1% | 0.03 | 13 | \$864 | 43% | 0.09 |
| FE-Met Ed | Variable Refrigerant Flow Heat Pump | Mfg: Metals | HVAC | ROB | measure | 116,851 | 0.1% | 0.03 | 13 | \$864 | 43% | 0.09 |
| FE-Met Ed | VFD on Cooling Tower Fan | Mfg: Metals | HVAC | Early | motor | 116,851 | 21% | 7.35 | 15 | \$5,384 | 15% | 2.65 |
| FE-Met Ed | VFD on Cooling Tower Fan | Mfg: Metals | HVAC | New | motor | 116,851 | 22% | 7.35 | 15 | \$5,487 | 15% | 2.63 |
| FE-Met Ed | VFD on Cooling Tower Fan | Mfg: Metals | HVAC | ROB | motor | 116,851 | 22% | 7.35 | 15 | \$5,487 | 15% | 2.63 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Mfg: Metals | HVAC | Existing | building | 116,851 | 19% | 5.59 | 15 | \$83,123 | 26% | 0.19 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Mfg: Metals | HVAC | New | building | 116,851 | 0.6% | 0.18 | 15 | \$63,760 | 94% | 0.01 |
| FE-Met Ed | Water Source Heat Pump (4 ton) | Mfg: Metals | HVAC | Early | heat pump | 116,851 | 1.5% | 0.41 | 15 | \$19,955 | 28% | 0.06 |
| FE-Met Ed | Water Source Heat Pump (4 ton) | Mfg: Metals | HVAC | New | heat pump | 116,851 | 1.1% | 0.30 | 15 | \$9,726 | 28% | 0.09 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---------------------------------------|-------------|----------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Water Source Heat Pump (4 ton) | Mfg: Metals | HVAC | ROB | heat pump | 116,851 | 1.1% | 0.30 | 15 | \$9,726 | 28% | 0.09 |
| FE-Met Ed | Efficient Metal Halide (High Bay) | Mfg: Metals | Lighting | Early | end use | 115,799 | 42% | 0.00 | 9 | \$18,095 | 53% | 0.81 |
| FE-Met Ed | Efficient Metal Halide (High Bay) | Mfg: Metals | Lighting | New | end use | 115,799 | 41% | 0.00 | 13 | \$483,324 | 61% | 0.05 |
| FE-Met Ed | Efficient Metal Halide (High Bay) | Mfg: Metals | Lighting | ROB | end use | 115,799 | 41% | 0.00 | 13 | \$369,383 | 61% | 0.06 |
| FE-Met Ed | Induction (High Bay) | Mfg: Metals | Lighting | Early | end use | 115,799 | 94% | 0.00 | 13 | \$53,841 | 95% | 0.87 |
| FE-Met Ed | Induction (High Bay) | Mfg: Metals | Lighting | New | end use | 115,799 | 94% | 0.00 | 13 | \$50,408 | 95% | 0.92 |
| FE-Met Ed | Induction (High Bay) | Mfg: Metals | Lighting | ROB | end use | 115,799 | 94% | 0.00 | 13 | \$38,312 | 95% | 1.16 |
| FE-Met Ed | LED (High Bay) | Mfg: Metals | Lighting | Early | end use | 115,799 | 69% | 0.00 | 14 | \$63,378 | 95% | 0.60 |
| FE-Met Ed | LED (High Bay) | Mfg: Metals | Lighting | New | end use | 115,799 | 55% | 0.00 | 14 | \$70,348 | 95% | 0.44 |
| FE-Met Ed | LED (High Bay) | Mfg: Metals | Lighting | ROB | end use | 115,799 | 59% | 0.00 | 14 | \$46,351 | 95% | 0.69 |
| FE-Met Ed | Lighting Controls | Mfg: Metals | Lighting | Existing | end use | 115,799 | 20% | 0.00 | 6 | \$434,118 | 16% | 0.01 |
| FE-Met Ed | Lighting Controls | Mfg: Metals | Lighting | New | end use | 115,799 | 12% | 0.00 | 10 | \$577,519 | 11% | 0.01 |
| FE-Met Ed | Linear Fluorescent (High Bay) | Mfg: Metals | Lighting | Early | end use | 115,799 | 17% | 0.00 | 14 | \$13,250 | 98% | 0.69 |
| FE-Met Ed | Linear Fluorescent (High Bay) | Mfg: Metals | Lighting | New | end use | 115,799 | 13% | 0.00 | 14 | \$4,202 | 91% | 1.47 |
| FE-Met Ed | Linear Fluorescent (High Bay) | Mfg: Metals | Lighting | ROB | end use | 115,799 | 13% | 0.00 | 14 | \$2,690 | 91% | 2.12 |
| FE-Met Ed | Metal Halide (High Bay) | Mfg: Metals | Lighting | Early | end use | 115,799 | 62% | 0.00 | 13 | \$79,605 | 38% | 0.42 |
| FE-Met Ed | Metal Halide (High Bay) | Mfg: Metals | Lighting | New | end use | 115,799 | 73% | 0.00 | 13 | \$19,032 | 38% | 1.65 |
| FE-Met Ed | Metal Halide (High Bay) | Mfg: Metals | Lighting | ROB | end use | 115,799 | 73% | 0.00 | 13 | \$14,465 | 38% | 2.02 |
| FE-Met Ed | Screw Base CFL | Mfg: Metals | Lighting | Early | end use | 115,799 | 80% | 0.00 | 7 | \$31,460 | 17% | 0.70 |
| FE-Met Ed | Screw Base CFL | Mfg: Metals | Lighting | New | end use | 115,799 | 73% | 0.00 | 9 | \$25,711 | 18% | 0.95 |
| FE-Met Ed | Screw Base CFL | Mfg: Metals | Lighting | ROB | end use | 115,799 | 73% | 0.00 | 9 | \$21,520 | 17% | 1.10 |
| FE-Met Ed | Screw Base LED | Mfg: Metals | Lighting | Early | end use | 115,799 | 76% | 0.00 | 9 | \$19,307 | 21% | 1.28 |
| FE-Met Ed | Screw Base LED | Mfg: Metals | Lighting | New | end use | 115,799 | 77% | 0.00 | 9 | \$10,755 | 20% | 1.95 |
| FE-Met Ed | Screw Base LED | Mfg: Metals | Lighting | ROB | end use | 115,799 | 77% | 0.00 | 9 | \$8,538 | 21% | 2.25 |
| FE-Met Ed | T8 High Performance Linear Florescent | Mfg: Metals | Lighting | Early | end use | 115,799 | 36% | 0.00 | 14 | \$11,081 | 71% | 1.56 |
| FE-Met Ed | T8 High Performance Linear Florescent | Mfg: Metals | Lighting | New | end use | 115,799 | 26% | 0.00 | 14 | \$3,965 | 76% | 2.63 |
| FE-Met Ed | T8 High Performance Linear Florescent | Mfg: Metals | Lighting | ROB | end use | 115,799 | 26% | 0.00 | 14 | \$3,013 | 76% | 3.11 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Metals | Motors | Early | end use | 63,331 | 0.9% | 0.08 | 15 | \$967 | 81% | 0.36 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Metals | Motors | New | end use | 63,331 | 0.9% | 0.08 | 15 | \$967 | 81% | 0.36 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Metals | Motors | ROB | end use | 63,331 | 0.9% | 0.08 | 15 | \$967 | 81% | 0.36 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Metals | Motors | Early | end use | 63,331 | 0.7% | 0.07 | 15 | \$588 | 73% | 0.48 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Metals | Motors | New | end use | 63,331 | 0.7% | 0.07 | 15 | \$588 | 73% | 0.48 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Metals | Motors | ROB | end use | 63,331 | 0.7% | 0.07 | 15 | \$588 | 73% | 0.48 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Metals | Motors | Early | end use | 63,331 | 0.4% | 0.04 | 15 | \$225 | 81% | 0.73 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Metals | Motors | New | end use | 63,331 | 0.4% | 0.04 | 15 | \$225 | 81% | 0.73 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Metals | Motors | ROB | end use | 63,331 | 0.4% | 0.04 | 15 | \$225 | 81% | 0.73 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Metals | Motors | Early | end use | 63,331 | 0.4% | 0.04 | 15 | \$74 | 73% | 1.72 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Metals | Motors | New | end use | 63,331 | 0.4% | 0.04 | 15 | \$74 | 73% | 1.72 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Metals | Motors | ROB | end use | 63,331 | 0.4% | 0.04 | 15 | \$74 | 73% | 1.72 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Metals | Motors | Early | end use | 63,331 | 0.9% | 0.08 | 15 | \$111 | 47% | 2.43 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Metals | Motors | New | end use | 63,331 | 0.9% | 0.08 | 15 | \$111 | 47% | 2.43 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Metals | Motors | ROB | end use | 63,331 | 0.9% | 0.08 | 15 | \$111 | 47% | 2.43 |
| FE-Met Ed | Facility Energy Management | Mfg: Metals | Motors | Existing | end use | 63,331 | 1.9% | 0.17 | 2 | \$24 | 77% | 1.21 |
| FE-Met Ed | Facility Energy Management | Mfg: Metals | Motors | New | end use | 63,331 | 1.9% | 0.17 | 2 | \$24 | 77% | 1.20 |
| FE-Met Ed | HE Motors | Mfg: Metals | Motors | Early | end use | 63,331 | 2.0% | 0.19 | 15 | \$377 | 38% | 1.76 |
| FE-Met Ed | HE Motors | Mfg: Metals | Motors | New | end use | 63,331 | 2.0% | 0.19 | 15 | \$377 | 38% | 1.76 |
| FE-Met Ed | HE Motors | Mfg: Metals | Motors | ROB | end use | 63,331 | 2.0% | 0.19 | 15 | \$377 | 38% | 1.76 |
| FE-Met Ed | High-Efficiency Ventilation System | Mfg: Metals | Motors | Early | end use | 63,331 | 5.7% | 0.51 | 10 | \$3,958 | 73% | 0.39 |
| FE-Met Ed | High-Efficiency Ventilation System | Mfg: Metals | Motors | New | end use | 63,331 | 5.7% | 0.51 | 10 | \$3,958 | 73% | 0.39 |
| FE-Met Ed | High-Efficiency Ventilation System | Mfg: Metals | Motors | ROB | end use | 63,331 | 5.7% | 0.51 | 10 | \$3,958 | 73% | 0.39 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|--|-------------|------------------------|----------|---------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Improved Controls - Motors | Mfg: Metals | Motors | Existing | end use | 63,331 | 4.0% | 0.36 | 10 | \$275 | 73% | 2.51 |
| FE-Met Ed | Improved Controls - Motors | Mfg: Metals | Motors | New | end use | 63,331 | 4.0% | 0.36 | 10 | \$275 | 73% | 2.51 |
| FE-Met Ed | Motor Management Plan | Mfg: Metals | Motors | Existing | end use | 63,331 | 2.9% | 0.26 | 10 | \$129 | 73% | 3.22 |
| FE-Met Ed | Motor Management Plan | Mfg: Metals | Motors | New | end use | 63,331 | 2.9% | 0.26 | 10 | \$129 | 73% | 3.21 |
| FE-Met Ed | Motors Other | Mfg: Metals | Motors | Existing | end use | 63,331 | 1.1% | 0.10 | 15 | \$13 | 83% | 7.20 |
| FE-Met Ed | Motors Other | Mfg: Metals | Motors | New | end use | 63,331 | 1.1% | 0.10 | 15 | \$13 | 83% | 7.20 |
| FE-Met Ed | Motors: Rewind 101-200 HP | Mfg: Metals | Motors | Existing | end use | 63,331 | 0.6% | 0.05 | 10 | \$80 | 27% | 1.54 |
| FE-Met Ed | Motors: Rewind 101-200 HP | Mfg: Metals | Motors | New | end use | 63,331 | 0.6% | 0.05 | 10 | \$80 | 27% | 1.53 |
| FE-Met Ed | Motors: Rewind 201-500 HP | Mfg: Metals | Motors | Existing | end use | 63,331 | 0.6% | 0.05 | 8 | \$50 | 27% | 1.78 |
| FE-Met Ed | Motors: Rewind 201-500 HP | Mfg: Metals | Motors | New | end use | 63,331 | 0.6% | 0.05 | 8 | \$50 | 27% | 1.79 |
| FE-Met Ed | Motors: Rewind 20-50 HP | Mfg: Metals | Motors | Existing | end use | 63,331 | 1.0% | 0.09 | 11 | \$235 | 42% | 1.15 |
| FE-Met Ed | Motors: Rewind 20-50 HP | Mfg: Metals | Motors | New | end use | 63,331 | 1.0% | 0.09 | 11 | \$235 | 42% | 1.16 |
| FE-Met Ed | Motors: Rewind 500+ HP | Mfg: Metals | Motors | Existing | end use | 63,331 | 0.6% | 0.05 | 8 | \$36 | 11% | 2.21 |
| FE-Met Ed | Motors: Rewind 500+ HP | Mfg: Metals | Motors | New | end use | 63,331 | 0.6% | 0.05 | 8 | \$36 | 11% | 2.20 |
| FE-Met Ed | Motors: Rewind 51-100 HP | Mfg: Metals | Motors | Existing | end use | 63,331 | 0.6% | 0.05 | 9 | \$116 | 42% | 1.11 |
| FE-Met Ed | Motors: Rewind 51-100 HP | Mfg: Metals | Motors | New | end use | 63,331 | 0.6% | 0.05 | 9 | \$116 | 42% | 1.13 |
| FE-Met Ed | Switch from Belt drive to Direct Drive | Mfg: Metals | Motors | Early | end use | 63,331 | 7.5% | 0.68 | 12 | \$1,016 | 30% | 1.84 |
| FE-Met Ed | Switch from Belt drive to Direct Drive | Mfg: Metals | Motors | New | end use | 63,331 | 7.5% | 0.68 | 12 | \$1,016 | 30% | 1.84 |
| FE-Met Ed | Switch from Belt drive to Direct Drive | Mfg: Metals | Motors | ROB | end use | 63,331 | 7.5% | 0.68 | 12 | \$1,016 | 30% | 1.84 |
| FE-Met Ed | Synchronous Belts | Mfg: Metals | Motors | Early | end use | 63,331 | 1.2% | 0.11 | 10 | \$93 | 30% | 2.30 |
| FE-Met Ed | Synchronous Belts | Mfg: Metals | Motors | New | end use | 63,331 | 1.2% | 0.11 | 10 | \$93 | 30% | 2.30 |
| FE-Met Ed | Synchronous Belts | Mfg: Metals | Motors | ROB | end use | 63,331 | 1.2% | 0.11 | 10 | \$93 | 30% | 2.30 |
| FE-Met Ed | Bldg Improvements | Mfg: Metals | Other | Existing | end use | 40,842 | 16% | 0.79 | 15 | \$890 | 72% | 3.03 |
| FE-Met Ed | Bldg Improvements | Mfg: Metals | Other | New | end use | 40,842 | 16% | 0.79 | 15 | \$890 | 72% | 3.03 |
| FE-Met Ed | Energy Project Management | Mfg: Metals | Other | Existing | end use | 40,842 | 29% | 1.41 | 11 | \$1,458 | 63% | 2.45 |
| FE-Met Ed | Energy Project Management | Mfg: Metals | Other | New | end use | 40,842 | 29% | 1.41 | 11 | \$1,458 | 63% | 2.45 |
| FE-Met Ed | Facility Energy Management | Mfg: Metals | Other | Existing | end use | 40,842 | 1.9% | 0.09 | 2 | \$16 | 76% | 1.18 |
| FE-Met Ed | Facility Energy Management | Mfg: Metals | Other | New | end use | 40,842 | 1.8% | 0.09 | 2 | \$16 | 76% | 1.17 |
| FE-Met Ed | Integrated Plant Energy Management | Mfg: Metals | Other | Existing | end use | 40,842 | 50% | 2.43 | 11 | \$4,026 | 48% | 1.77 |
| FE-Met Ed | Integrated Plant Energy Management | Mfg: Metals | Other | New | end use | 40,842 | 50% | 2.43 | 11 | \$4,026 | 48% | 1.77 |
| FE-Met Ed | Plant Energy Management | Mfg: Metals | Other | Existing | end use | 40,842 | 12% | 0.58 | 10 | \$103 | 55% | 4.84 |
| FE-Met Ed | Plant Energy Management | Mfg: Metals | Other | New | end use | 40,842 | 12% | 0.58 | 10 | \$103 | 55% | 4.84 |
| FE-Met Ed | Transformers | Mfg: Metals | Other | Early | end use | 40,842 | 1.6% | 0.08 | 15 | \$130 | 34% | 2.27 |
| FE-Met Ed | Transformers | Mfg: Metals | Other | New | end use | 40,842 | 1.6% | 0.08 | 15 | \$130 | 34% | 2.27 |
| FE-Met Ed | Transformers | Mfg: Metals | Other | ROB | end use | 40,842 | 1.6% | 0.08 | 15 | \$130 | 34% | 2.27 |
| FE-Met Ed | Air Compressor Demand Reduction | Mfg: Metals | Process Air Compressor | Existing | end use | 5,923 | 26% | 0.20 | 10 | \$89 | 40% | 3.47 |
| FE-Met Ed | Air Compressor Demand Reduction | Mfg: Metals | Process Air Compressor | New | end use | 5,923 | 26% | 0.20 | 10 | \$89 | 40% | 3.47 |
| FE-Met Ed | Air Compressor Equipment | Mfg: Metals | Process Air Compressor | Early | end use | 5,923 | 39% | 0.30 | 10 | \$107 | 56% | 3.81 |
| FE-Met Ed | Air Compressor Equipment | Mfg: Metals | Process Air Compressor | New | end use | 5,923 | 39% | 0.30 | 10 | \$107 | 56% | 3.81 |
| FE-Met Ed | Air Compressor Equipment | Mfg: Metals | Process Air Compressor | ROB | end use | 5,923 | 39% | 0.30 | 10 | \$107 | 56% | 3.81 |
| FE-Met Ed | Air Compressor Optimization | Mfg: Metals | Process Air Compressor | Existing | end use | 5,923 | 39% | 0.30 | 10 | \$258 | 42% | 2.47 |
| FE-Met Ed | Air Compressor Optimization | Mfg: Metals | Process Air Compressor | New | end use | 5,923 | 39% | 0.30 | 10 | \$258 | 42% | 2.47 |
| FE-Met Ed | Facility Energy Management | Mfg: Metals | Process Air Compressor | Existing | end use | 5,923 | 1.9% | 0.01 | 2 | \$2.3 | 50% | 1.19 |
| FE-Met Ed | Facility Energy Management | Mfg: Metals | Process Air Compressor | New | end use | 5,923 | 1.9% | 0.01 | 2 | \$2.3 | 50% | 1.19 |
| FE-Met Ed | HE Compressor motors | Mfg: Metals | Process Air Compressor | Early | end use | 5,923 | 1.1% | 0.01 | 15 | \$22 | 56% | 1.52 |
| FE-Met Ed | HE Compressor motors | Mfg: Metals | Process Air Compressor | New | end use | 5,923 | 1.1% | 0.01 | 15 | \$22 | 56% | 1.52 |
| FE-Met Ed | HE Compressor motors | Mfg: Metals | Process Air Compressor | ROB | end use | 5,923 | 1.1% | 0.01 | 15 | \$22 | 56% | 1.52 |
| FE-Met Ed | Improved Controls - Air Compressor | Mfg: Metals | Process Air Compressor | Existing | end use | 5,923 | 41% | 0.31 | 10 | \$106 | 19% | 3.91 |
| FE-Met Ed | Improved Controls - Air Compressor | Mfg: Metals | Process Air Compressor | New | end use | 5,923 | 41% | 0.31 | 10 | \$106 | 19% | 3.91 |
| FE-Met Ed | Low Pressure-drop Filters | Mfg: Metals | Process Air Compressor | Existing | end use | 5,923 | 1.9% | 0.01 | 10 | \$67 | 46% | 0.65 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---------------------------------------|-------------|------------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Low Pressure-drop Filters | Mfg: Metals | Process Air Compressor | New | end use | 5,923 | 1.9% | 0.01 | 10 | \$67 | 46% | 0.65 |
| FE-Met Ed | Outside Air Intake | Mfg: Metals | Process Air Compressor | Existing | end use | 5,923 | 1.4% | 0.01 | 10 | \$39 | 37% | 0.85 |
| FE-Met Ed | Outside Air Intake | Mfg: Metals | Process Air Compressor | New | end use | 5,923 | 1.4% | 0.01 | 10 | \$39 | 37% | 0.85 |
| FE-Met Ed | Receiver Capacity Addition | Mfg: Metals | Process Air Compressor | Existing | end use | 5,923 | 6.0% | 0.05 | 10 | \$110 | 28% | 1.17 |
| FE-Met Ed | Receiver Capacity Addition | Mfg: Metals | Process Air Compressor | New | end use | 5,923 | 6.0% | 0.05 | 10 | \$110 | 28% | 1.17 |
| FE-Met Ed | Refrigerated Cycling Dryers | Mfg: Metals | Process Air Compressor | Early | end use | 5,923 | 1.7% | 0.01 | 10 | \$14 | 16% | 2.14 |
| FE-Met Ed | Refrigerated Cycling Dryers | Mfg: Metals | Process Air Compressor | New | end use | 5,923 | 1.7% | 0.01 | 10 | \$14 | 16% | 2.14 |
| FE-Met Ed | Refrigerated Cycling Dryers | Mfg: Metals | Process Air Compressor | ROB | end use | 5,923 | 1.7% | 0.01 | 10 | \$14 | 16% | 2.14 |
| FE-Met Ed | VFD Controlled Compressor | Mfg: Metals | Process Air Compressor | Early | end use | 5,923 | 24% | 0.18 | 10 | \$583 | 22% | 0.92 |
| FE-Met Ed | VFD Controlled Compressor | Mfg: Metals | Process Air Compressor | New | end use | 5,923 | 24% | 0.18 | 10 | \$583 | 22% | 0.92 |
| FE-Met Ed | VFD Controlled Compressor | Mfg: Metals | Process Air Compressor | ROB | end use | 5,923 | 24% | 0.18 | 10 | \$583 | 22% | 0.92 |
| FE-Met Ed | Zero Loss Condensate Drain | Mfg: Metals | Process Air Compressor | Early | end use | 5,923 | 1.8% | 0.01 | 10 | \$34 | 28% | 1.16 |
| FE-Met Ed | Zero Loss Condensate Drain | Mfg: Metals | Process Air Compressor | New | end use | 5,923 | 1.8% | 0.01 | 10 | \$34 | 28% | 1.16 |
| FE-Met Ed | Zero Loss Condensate Drain | Mfg: Metals | Process Air Compressor | ROB | end use | 5,923 | 1.8% | 0.01 | 10 | \$34 | 28% | 1.16 |
| FE-Met Ed | Cooling Tower Optimization | Mfg: Metals | Process Cooling | Existing | building | 19,408 | 20% | 1.39 | 10 | \$119 | 23% | 5.47 |
| FE-Met Ed | Equipment: Chillers | Mfg: Metals | Process Cooling | Early | end use | 19,408 | 18% | 0.72 | 15 | \$911 | 39% | 2.02 |
| FE-Met Ed | Equipment: Chillers | Mfg: Metals | Process Cooling | New | end use | 19,408 | 18% | 0.72 | 15 | \$911 | 39% | 2.02 |
| FE-Met Ed | Equipment: Chillers | Mfg: Metals | Process Cooling | ROB | end use | 19,408 | 18% | 0.72 | 15 | \$911 | 39% | 2.01 |
| FE-Met Ed | Facility Energy Management | Mfg: Metals | Process Cooling | Existing | end use | 19,408 | 1.9% | 0.07 | 2 | \$7.5 | 50% | 1.27 |
| FE-Met Ed | Facility Energy Management | Mfg: Metals | Process Cooling | New | end use | 19,408 | 1.9% | 0.07 | 2 | \$7.5 | 50% | 1.27 |
| FE-Met Ed | Improved Controls - Process Cooling | Mfg: Metals | Process Cooling | Existing | end use | 19,408 | 6.0% | 0.24 | 10 | \$1,025 | 47% | 0.50 |
| FE-Met Ed | Improved Controls - Process Cooling | Mfg: Metals | Process Cooling | New | end use | 19,408 | 6.0% | 0.24 | 10 | \$1,025 | 47% | 0.50 |
| FE-Met Ed | VFD on Cooling Tower Fan | Mfg: Metals | Process Cooling | Early | motor | 19,408 | 21% | 1.22 | 15 | \$894 | 24% | 2.54 |
| FE-Met Ed | VFD on Cooling Tower Fan | Mfg: Metals | Process Cooling | New | motor | 19,408 | 22% | 1.22 | 15 | \$911 | 24% | 2.53 |
| FE-Met Ed | VFD on Cooling Tower Fan | Mfg: Metals | Process Cooling | ROB | motor | 19,408 | 22% | 1.22 | 15 | \$911 | 24% | 2.53 |
| FE-Met Ed | Improved Controls - Process Heating | Mfg: Metals | Process Heating | Existing | end use | 743,244 | 17% | 17.47 | 10 | \$8,539 | 89% | 3.24 |
| FE-Met Ed | Improved Controls - Process Heating | Mfg: Metals | Process Heating | New | end use | 743,244 | 17% | 17.47 | 10 | \$8,539 | 89% | 3.24 |
| FE-Met Ed | Metal: New Arc Furnace | Mfg: Metals | Process Heating | Early | end use | 743,244 | 45% | 45.69 | 10 | \$30,880 | 33% | 2.69 |
| FE-Met Ed | Metal: New Arc Furnace | Mfg: Metals | Process Heating | New | end use | 743,244 | 45% | 45.69 | 10 | \$30,880 | 33% | 2.69 |
| FE-Met Ed | Metal: New Arc Furnace | Mfg: Metals | Process Heating | ROB | end use | 743,244 | 45% | 45.69 | 10 | \$30,880 | 33% | 2.69 |
| FE-Met Ed | Process Heat O&M | Mfg: Metals | Process Heating | Existing | end use | 743,244 | 16% | 16.52 | 2 | \$5,161 | 89% | 0.95 |
| FE-Met Ed | Process Heat O&M | Mfg: Metals | Process Heating | New | end use | 743,244 | 16% | 16.52 | 2 | \$5,161 | 89% | 0.95 |
| FE-Met Ed | Facility Energy Management | Mfg: Metals | Process Other | Existing | end use | 356,709 | 1.9% | 0.92 | 2 | \$137 | 73% | 1.19 |
| FE-Met Ed | Facility Energy Management | Mfg: Metals | Process Other | New | end use | 356,709 | 1.9% | 0.92 | 2 | \$137 | 73% | 1.19 |
| FE-Met Ed | Adjustable speed drive on compressors | Mfg: Metals | Process Refrigeration | Early | end use | 9,970 | 12% | 0.17 | 10 | \$184 | 30% | 1.99 |
| FE-Met Ed | Adjustable speed drive on compressors | Mfg: Metals | Process Refrigeration | New | end use | 9,970 | 12% | 0.17 | 10 | \$184 | 30% | 1.99 |
| FE-Met Ed | Adjustable speed drive on compressors | Mfg: Metals | Process Refrigeration | ROB | end use | 9,970 | 12% | 0.17 | 10 | \$184 | 30% | 1.99 |
| FE-Met Ed | Cooling Tower Optimization | Mfg: Metals | Process Refrigeration | Existing | building | 9,970 | 20% | 0.71 | 10 | \$61 | 23% | 5.47 |
| FE-Met Ed | Optimization of operating parameters | Mfg: Metals | Process Refrigeration | Existing | end use | 9,970 | 13% | 0.19 | 3 | \$80 | 27% | 1.20 |
| FE-Met Ed | Optimization of operating parameters | Mfg: Metals | Process Refrigeration | New | end use | 9,970 | 13% | 0.19 | 3 | \$80 | 27% | 1.20 |
| FE-Met Ed | Synchronous Belts | Mfg: Metals | Process Refrigeration | Early | end use | 9,970 | 1.2% | 0.02 | 10 | \$15 | 30% | 2.31 |
| FE-Met Ed | Synchronous Belts | Mfg: Metals | Process Refrigeration | New | end use | 9,970 | 1.2% | 0.02 | 10 | \$15 | 30% | 2.31 |
| FE-Met Ed | Synchronous Belts | Mfg: Metals | Process Refrigeration | ROB | end use | 9,970 | 1.2% | 0.02 | 10 | \$15 | 30% | 2.31 |
| FE-Met Ed | VFD on Cooling Tower Fan | Mfg: Metals | Process Refrigeration | Early | motor | 9,970 | 21% | 0.63 | 15 | \$459 | 24% | 2.54 |
| FE-Met Ed | VFD on Cooling Tower Fan | Mfg: Metals | Process Refrigeration | New | motor | 9,970 | 22% | 0.63 | 15 | \$468 | 24% | 2.53 |
| FE-Met Ed | VFD on Cooling Tower Fan | Mfg: Metals | Process Refrigeration | ROB | motor | 9,970 | 22% | 0.63 | 15 | \$468 | 24% | 2.53 |
| FE-Met Ed | Facility Energy Management | Mfg: Metals | Pumps | Existing | end use | 355,006 | 1.9% | 0.85 | 2 | \$137 | 69% | 1.22 |
| FE-Met Ed | Facility Energy Management | Mfg: Metals | Pumps | New | end use | 355,006 | 2.0% | 0.85 | 2 | \$137 | 69% | 1.22 |
| FE-Met Ed | HE Motors | Mfg: Metals | Pumps | Early | end use | 355,006 | 2.0% | 0.94 | 15 | \$2,113 | 73% | 1.74 |
| FE-Met Ed | HE Motors | Mfg: Metals | Pumps | New | end use | 355,006 | 2.0% | 0.94 | 15 | \$2,113 | 73% | 1.74 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|--|-------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | HE Motors | Mfg: Metals | Pumps | ROB | end use | 355,006 | 2.0% | 0.94 | 15 | \$2,113 | 73% | 1.74 |
| FE-Met Ed | Motor rewinds | Mfg: Metals | Pumps | Existing | end use | 355,006 | 0.6% | 0.27 | 9 | \$505 | 11% | 1.38 |
| FE-Met Ed | Motor rewinds | Mfg: Metals | Pumps | New | end use | 355,006 | 0.6% | 0.27 | 9 | \$505 | 11% | 1.38 |
| FE-Met Ed | Synchronous Belts | Mfg: Metals | Pumps | Early | end use | 355,006 | 1.2% | 0.54 | 10 | \$523 | 61% | 2.27 |
| FE-Met Ed | Synchronous Belts | Mfg: Metals | Pumps | New | end use | 355,006 | 1.2% | 0.54 | 10 | \$523 | 61% | 2.27 |
| FE-Met Ed | Synchronous Belts | Mfg: Metals | Pumps | ROB | end use | 355,006 | 1.2% | 0.54 | 10 | \$523 | 61% | 2.27 |
| FE-Met Ed | Circulating Fans | Mfg: Other | Fans | Early | end use | 81,426 | 5.0% | 0.48 | 10 | \$496 | 68% | 2.35 |
| FE-Met Ed | Circulating Fans | Mfg: Other | Fans | New | end use | 81,426 | 5.0% | 0.48 | 10 | \$496 | 68% | 2.35 |
| FE-Met Ed | Circulating Fans | Mfg: Other | Fans | ROB | end use | 81,426 | 5.0% | 0.48 | 10 | \$496 | 68% | 2.35 |
| FE-Met Ed | Facility Energy Management | Mfg: Other | Fans | Existing | end use | 81,426 | 1.9% | 0.18 | 2 | \$31 | 77% | 1.21 |
| FE-Met Ed | Facility Energy Management | Mfg: Other | Fans | New | end use | 81,426 | 1.9% | 0.18 | 2 | \$31 | 77% | 1.21 |
| FE-Met Ed | Fan Equipment Upgrade | Mfg: Other | Fans | Early | end use | 81,426 | 35% | 3.39 | 10 | \$2,443 | 68% | 2.90 |
| FE-Met Ed | Fan Equipment Upgrade | Mfg: Other | Fans | New | end use | 81,426 | 35% | 3.39 | 10 | \$2,443 | 68% | 2.90 |
| FE-Met Ed | Fan Equipment Upgrade | Mfg: Other | Fans | ROB | end use | 81,426 | 35% | 3.39 | 10 | \$2,443 | 68% | 2.90 |
| FE-Met Ed | Fan System Optimization | Mfg: Other | Fans | Existing | end use | 81,426 | 7.3% | 0.71 | 10 | \$1,111 | 83% | 1.76 |
| FE-Met Ed | Fan System Optimization | Mfg: Other | Fans | New | end use | 81,426 | 7.3% | 0.71 | 10 | \$1,111 | 83% | 1.76 |
| FE-Met Ed | HE Motors | Mfg: Other | Fans | Early | end use | 81,426 | 2.0% | 0.20 | 15 | \$485 | 77% | 1.77 |
| FE-Met Ed | HE Motors | Mfg: Other | Fans | New | end use | 81,426 | 2.0% | 0.20 | 15 | \$485 | 77% | 1.77 |
| FE-Met Ed | HE Motors | Mfg: Other | Fans | ROB | end use | 81,426 | 2.0% | 0.20 | 15 | \$485 | 77% | 1.77 |
| FE-Met Ed | Improved Controls - Fans | Mfg: Other | Fans | Existing | end use | 81,426 | 7.1% | 0.69 | 10 | \$316 | 88% | 3.62 |
| FE-Met Ed | Improved Controls - Fans | Mfg: Other | Fans | New | end use | 81,426 | 7.1% | 0.69 | 10 | \$316 | 88% | 3.62 |
| FE-Met Ed | Properly Sized Fans | Mfg: Other | Fans | Early | end use | 81,426 | 13% | 1.28 | 10 | \$1,668 | 41% | 2.00 |
| FE-Met Ed | Properly Sized Fans | Mfg: Other | Fans | New | end use | 81,426 | 13% | 1.28 | 10 | \$1,668 | 41% | 2.00 |
| FE-Met Ed | Properly Sized Fans | Mfg: Other | Fans | ROB | end use | 81,426 | 13% | 1.28 | 10 | \$1,668 | 41% | 2.00 |
| FE-Met Ed | Synchronous Belts | Mfg: Other | Fans | Early | end use | 81,426 | 1.2% | 0.11 | 10 | \$120 | 41% | 2.30 |
| FE-Met Ed | Synchronous Belts | Mfg: Other | Fans | New | end use | 81,426 | 1.2% | 0.11 | 10 | \$120 | 41% | 2.30 |
| FE-Met Ed | Synchronous Belts | Mfg: Other | Fans | ROB | end use | 81,426 | 1.2% | 0.11 | 10 | \$120 | 41% | 2.30 |
| FE-Met Ed | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Other | HVAC | Early | unit (ton) | 164,347 | 9.2% | 3.91 | 15 | \$29,938 | 28% | 0.36 |
| FE-Met Ed | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Other | HVAC | New | unit (ton) | 164,347 | 4.1% | 1.76 | 15 | \$7,253 | 28% | 0.64 |
| FE-Met Ed | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Other | HVAC | ROB | unit (ton) | 164,347 | 4.1% | 1.76 | 15 | \$7,253 | 28% | 0.64 |
| FE-Met Ed | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Other | HVAC | Early | unit (ton) | 164,347 | 12% | 5.29 | 15 | \$35,293 | 28% | 0.41 |
| FE-Met Ed | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Other | HVAC | New | unit (ton) | 164,347 | 7.7% | 3.28 | 15 | \$15,277 | 28% | 0.57 |
| FE-Met Ed | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Other | HVAC | ROB | unit (ton) | 164,347 | 7.7% | 3.28 | 15 | \$15,277 | 28% | 0.57 |
| FE-Met Ed | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Other | HVAC | Early | unit (ton) | 164,347 | 15% | 6.50 | 15 | \$40,649 | 29% | 0.43 |
| FE-Met Ed | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Other | HVAC | New | unit (ton) | 164,347 | 11% | 4.61 | 15 | \$23,301 | 29% | 0.53 |
| FE-Met Ed | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Other | HVAC | ROB | unit (ton) | 164,347 | 11% | 4.61 | 15 | \$23,301 | 29% | 0.53 |
| FE-Met Ed | >760k min 10.2 EER Air Conditioner | Mfg: Other | HVAC | Early | unit (ton) | 164,347 | 2.1% | 0.91 | 15 | \$52,134 | 35% | 0.05 |
| FE-Met Ed | >760k min 10.2 EER Air Conditioner | Mfg: Other | HVAC | New | unit (ton) | 164,347 | 2.8% | 1.21 | 15 | \$4,712 | 35% | 0.68 |
| FE-Met Ed | >760k min 10.2 EER Air Conditioner | Mfg: Other | HVAC | ROB | unit (ton) | 164,347 | 2.8% | 1.21 | 15 | \$4,712 | 35% | 0.68 |
| FE-Met Ed | 135-240k min 12 EER Air Conditioner | Mfg: Other | HVAC | Early | unit (ton) | 164,347 | 10% | 4.46 | 15 | \$56,454 | 35% | 0.22 |
| FE-Met Ed | 135-240k min 12 EER Air Conditioner | Mfg: Other | HVAC | New | unit (ton) | 164,347 | 5.8% | 2.46 | 15 | \$6,666 | 35% | 0.95 |
| FE-Met Ed | 135-240k min 12 EER Air Conditioner | Mfg: Other | HVAC | ROB | unit (ton) | 164,347 | 5.8% | 2.46 | 15 | \$6,666 | 35% | 0.95 |
| FE-Met Ed | 240k-760k min 11 EER Air Conditioner | Mfg: Other | HVAC | Early | unit (ton) | 164,347 | 5.2% | 2.22 | 15 | \$52,167 | 35% | 0.12 |
| FE-Met Ed | 240k-760k min 11 EER Air Conditioner | Mfg: Other | HVAC | New | unit (ton) | 164,347 | 5.3% | 2.28 | 15 | \$5,589 | 35% | 1.04 |
| FE-Met Ed | 240k-760k min 11 EER Air Conditioner | Mfg: Other | HVAC | ROB | unit (ton) | 164,347 | 5.3% | 2.28 | 15 | \$5,589 | 35% | 1.04 |
| FE-Met Ed | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Other | HVAC | Early | unit (ton) | 164,347 | 9.7% | 4.14 | 15 | \$57,804 | 35% | 0.20 |
| FE-Met Ed | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Other | HVAC | New | unit (ton) | 164,347 | 3.8% | 1.64 | 15 | \$8,247 | 35% | 0.53 |
| FE-Met Ed | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Other | HVAC | ROB | unit (ton) | 164,347 | 3.8% | 1.64 | 15 | \$8,247 | 35% | 0.53 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Mfg: Other | HVAC | Existing | building | 164,347 | 5.9% | 2.44 | 15 | \$497,944 | 71% | 0.01 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Mfg: Other | HVAC | New | building | 164,347 | 3.7% | 1.53 | 15 | \$473,310 | 94% | 0.01 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Chiller Tuneup/Diagnostics | Mfg: Other | HVAC | Existing | building | 164,347 | 8.0% | 4.82 | 10 | \$419,650 | 59% | 0.02 |
| FE-Met Ed | Chiller Tuneup/Diagnostics | Mfg: Other | HVAC | New | building | 164,347 | 8.0% | 4.83 | 10 | \$419,650 | 59% | 0.02 |
| FE-Met Ed | Cooling Tower Optimization | Mfg: Other | HVAC | Existing | building | 164,347 | 20% | 11.76 | 10 | \$1,008 | 14% | 5.42 |
| FE-Met Ed | Duct Insulation, Add R8 | Mfg: Other | HVAC | Existing | building | 164,347 | 1.5% | 0.53 | 15 | \$1,306 | 18% | 1.20 |
| FE-Met Ed | Duct Insulation, Add R8 | Mfg: Other | HVAC | New | building | 164,347 | 1.5% | 0.53 | 15 | \$1,306 | 9% | 1.20 |
| FE-Met Ed | Ductless Heat Pump | Mfg: Other | HVAC | Early | heat pump | 164,347 | 0.8% | 0.31 | 15 | \$13,053 | 83% | 0.07 |
| FE-Met Ed | Ductless Heat Pump | Mfg: Other | HVAC | New | heat pump | 164,347 | 0.4% | 0.16 | 15 | \$3,791 | 83% | 0.13 |
| FE-Met Ed | Ductless Heat Pump | Mfg: Other | HVAC | ROB | heat pump | 164,347 | 0.4% | 0.16 | 15 | \$3,791 | 83% | 0.13 |
| FE-Met Ed | DX Coil Cleaning | Mfg: Other | HVAC | Existing | building | 164,347 | 13% | 7.54 | 1 | \$1,575 | 73% | 0.52 |
| FE-Met Ed | DX Coil Cleaning | Mfg: Other | HVAC | New | building | 164,347 | 13% | 7.54 | 1 | \$1,575 | 73% | 0.52 |
| FE-Met Ed | Efficient Unit Heating System | Mfg: Other | HVAC | Early | heater | 164,347 | 6.9% | 0.09 | 15 | \$8,853 | 83% | 0.63 |
| FE-Met Ed | Efficient Unit Heating System | Mfg: Other | HVAC | New | heater | 164,347 | 4.0% | 0.05 | 15 | \$6,039 | 83% | 0.53 |
| FE-Met Ed | Efficient Unit Heating System | Mfg: Other | HVAC | ROB | heater | 164,347 | 4.0% | 0.05 | 15 | \$6,039 | 83% | 0.53 |
| FE-Met Ed | Ground Source Heat Pump (Closed Loop) | Mfg: Other | HVAC | Early | heat pump | 164,347 | 1.3% | 0.48 | 15 | \$27,103 | 19% | 0.05 |
| FE-Met Ed | Ground Source Heat Pump (Closed Loop) | Mfg: Other | HVAC | New | heat pump | 164,347 | 1.0% | 0.38 | 15 | \$10,701 | 19% | 0.11 |
| FE-Met Ed | Ground Source Heat Pump (Closed Loop) | Mfg: Other | HVAC | ROB | heat pump | 164,347 | 1.0% | 0.38 | 15 | \$10,701 | 19% | 0.11 |
| FE-Met Ed | Ground Source Heat Pump (Open Loop) | Mfg: Other | HVAC | Early | heat pump | 164,347 | 1.3% | 0.48 | 15 | \$17,358 | 19% | 0.08 |
| FE-Met Ed | Ground Source Heat Pump (Open Loop) | Mfg: Other | HVAC | New | heat pump | 164,347 | 1.0% | 0.38 | 15 | \$368 | 19% | 2.35 |
| FE-Met Ed | Ground Source Heat Pump (Open Loop) | Mfg: Other | HVAC | ROB | heat pump | 164,347 | 1.0% | 0.38 | 15 | \$368 | 19% | 2.35 |
| FE-Met Ed | HE Air Cooled Chiller, 100 Tons | Mfg: Other | HVAC | Early | unit (ton) | 164,347 | 1.5% | 0.55 | 15 | \$193,215 | 89% | 0.01 |
| FE-Met Ed | HE Air Cooled Chiller, 100 Tons | Mfg: Other | HVAC | New | unit (ton) | 164,347 | 0.4% | 0.15 | 15 | \$28,148 | 89% | 0.02 |
| FE-Met Ed | HE Air Cooled Chiller, 100 Tons | Mfg: Other | HVAC | ROB | unit (ton) | 164,347 | 0.4% | 0.15 | 15 | \$28,148 | 89% | 0.02 |
| FE-Met Ed | HE Air Cooled Chiller, 150 Tons | Mfg: Other | HVAC | Early | unit (ton) | 164,347 | 1.5% | 0.54 | 15 | \$166,894 | 89% | 0.01 |
| FE-Met Ed | HE Air Cooled Chiller, 150 Tons | Mfg: Other | HVAC | New | unit (ton) | 164,347 | 0.3% | 0.11 | 15 | \$13,823 | 89% | 0.03 |
| FE-Met Ed | HE Air Cooled Chiller, 150 Tons | Mfg: Other | HVAC | ROB | unit (ton) | 164,347 | 0.3% | 0.11 | 15 | \$13,823 | 89% | 0.03 |
| FE-Met Ed | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Other | HVAC | Early | heat pump | 164,347 | 1.4% | 0.51 | 12 | \$7,075 | 81% | 0.17 |
| FE-Met Ed | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Other | HVAC | Early | heat pump | 164,347 | 1.1% | 0.42 | 12 | \$5,169 | 81% | 0.20 |
| FE-Met Ed | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Other | HVAC | New | heat pump | 164,347 | 1.0% | 0.38 | 12 | \$3,159 | 81% | 0.29 |
| FE-Met Ed | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Other | HVAC | New | heat pump | 164,347 | 0.8% | 0.28 | 12 | \$1,104 | 81% | 0.59 |
| FE-Met Ed | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Other | HVAC | ROB | heat pump | 164,347 | 1.0% | 0.38 | 12 | \$3,159 | 81% | 0.29 |
| FE-Met Ed | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Other | HVAC | ROB | heat pump | 164,347 | 0.8% | 0.28 | 12 | \$1,104 | 81% | 0.59 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Other | HVAC | Early | unit (ton) | 164,347 | 1.6% | 0.59 | 15 | \$15,331 | 89% | 0.12 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Other | HVAC | New | unit (ton) | 164,347 | 0.9% | 0.34 | 15 | \$5,099 | 89% | 0.21 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Other | HVAC | ROB | unit (ton) | 164,347 | 0.9% | 0.34 | 15 | \$5,099 | 89% | 0.21 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Other | HVAC | Early | unit (ton) | 164,347 | 1.4% | 0.53 | 15 | \$14,972 | 89% | 0.11 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Other | HVAC | New | unit (ton) | 164,347 | 1.0% | 0.37 | 15 | \$2,924 | 89% | 0.38 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Other | HVAC | ROB | unit (ton) | 164,347 | 1.4% | 0.53 | 15 | \$2,686 | 89% | 0.58 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Other | HVAC | Early | unit (ton) | 164,347 | 1.4% | 0.52 | 15 | \$17,721 | 89% | 0.09 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Other | HVAC | New | unit (ton) | 164,347 | 0.9% | 0.33 | 15 | \$7,461 | 89% | 0.14 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Other | HVAC | ROB | unit (ton) | 164,347 | 1.4% | 0.52 | 15 | \$6,753 | 89% | 0.24 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Other | HVAC | Early | unit (ton) | 164,347 | 1.4% | 0.52 | 15 | \$17,070 | 89% | 0.10 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Other | HVAC | New | unit (ton) | 164,347 | 0.9% | 0.33 | 15 | \$6,485 | 89% | 0.16 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Other | HVAC | ROB | unit (ton) | 164,347 | 1.4% | 0.52 | 15 | \$5,870 | 89% | 0.27 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Other | HVAC | Early | unit (ton) | 164,347 | 1.8% | 0.67 | 15 | \$18,393 | 89% | 0.11 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Other | HVAC | New | unit (ton) | 164,347 | 0.6% | 0.21 | 15 | \$11,389 | 89% | 0.06 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Other | HVAC | ROB | unit (ton) | 164,347 | 1.8% | 0.67 | 15 | \$8,844 | 89% | 0.24 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Other | HVAC | Early | unit (ton) | 164,347 | 2.2% | 0.80 | 15 | \$16,918 | 89% | 0.15 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Other | HVAC | New | unit (ton) | 164,347 | 0.8% | 0.29 | 15 | \$6,789 | 89% | 0.13 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Other | HVAC | ROB | unit (ton) | 164,347 | 0.8% | 0.29 | 15 | \$6,789 | 89% | 0.13 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Other | HVAC | Early | unit (ton) | 164,347 | 2.4% | 0.90 | 15 | \$14,338 | 89% | 0.19 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|------------|----------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Other | HVAC | New | unit (ton) | 164,347 | 0.9% | 0.34 | 15 | \$3,608 | 89% | 0.29 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Other | HVAC | ROB | unit (ton) | 164,347 | 2.4% | 0.90 | 15 | \$2,572 | 89% | 1.00 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Other | HVAC | Early | unit (ton) | 164,347 | 1.8% | 0.68 | 15 | \$14,194 | 89% | 0.15 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Other | HVAC | New | unit (ton) | 164,347 | 0.7% | 0.26 | 15 | \$3,975 | 89% | 0.20 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Other | HVAC | ROB | unit (ton) | 164,347 | 1.8% | 0.68 | 15 | \$3,149 | 89% | 0.64 |
| FE-Met Ed | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Other | HVAC | Existing | building | 164,347 | 2.9% | 0.97 | 5 | \$1,744 | 55% | 0.63 |
| FE-Met Ed | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Other | HVAC | New | building | 164,347 | 0.6% | 0.38 | 5 | \$1,046 | 51% | 0.30 |
| FE-Met Ed | Improved Controls - HVAC | Mfg: Other | HVAC | Existing | end use | 164,347 | 21% | 4.93 | 10 | \$1,728 | 76% | 3.87 |
| FE-Met Ed | Improved Controls - HVAC | Mfg: Other | HVAC | New | end use | 164,347 | 21% | 4.93 | 10 | \$1,728 | 76% | 3.87 |
| FE-Met Ed | Outside Air Economizer | Mfg: Other | HVAC | Existing | building | 164,347 | 1.1% | 0.46 | 10 | \$603,840 | 82% | 0.00 |
| FE-Met Ed | Outside Air Economizer | Mfg: Other | HVAC | New | building | 164,347 | 1.1% | 0.46 | 10 | \$603,840 | 82% | 0.00 |
| FE-Met Ed | Recommissioning | Mfg: Other | HVAC | Existing | end use | 164,347 | 5.0% | 1.18 | 10 | \$225 | 88% | 4.78 |
| FE-Met Ed | Recommissioning | Mfg: Other | HVAC | New | end use | 164,347 | 5.0% | 1.18 | 10 | \$225 | 88% | 4.78 |
| FE-Met Ed | Room AC (with louvered sides) | Mfg: Other | HVAC | Early | unit (ton) | 164,347 | 7.7% | 2.85 | 9 | \$12,881 | 78% | 0.43 |
| FE-Met Ed | Room AC (with louvered sides) | Mfg: Other | HVAC | New | unit (ton) | 164,347 | 2.6% | 0.95 | 9 | \$705 | 78% | 1.97 |
| FE-Met Ed | Room AC (with louvered sides) | Mfg: Other | HVAC | ROB | unit (ton) | 164,347 | 2.6% | 0.95 | 9 | \$705 | 78% | 1.97 |
| FE-Met Ed | Variable Refrigerant Flow Heat Pump | Mfg: Other | HVAC | New | measure | 164,347 | 0.1% | 0.04 | 13 | \$1,215 | 43% | 0.09 |
| FE-Met Ed | Variable Refrigerant Flow Heat Pump | Mfg: Other | HVAC | ROB | measure | 164,347 | 0.1% | 0.04 | 13 | \$1,215 | 43% | 0.09 |
| FE-Met Ed | VFD on Cooling Tower Fan | Mfg: Other | HVAC | Early | motor | 164,347 | 21% | 10.34 | 15 | \$7,572 | 15% | 2.65 |
| FE-Met Ed | VFD on Cooling Tower Fan | Mfg: Other | HVAC | New | motor | 164,347 | 22% | 10.34 | 15 | \$7,717 | 15% | 2.63 |
| FE-Met Ed | VFD on Cooling Tower Fan | Mfg: Other | HVAC | ROB | motor | 164,347 | 22% | 10.34 | 15 | \$7,717 | 15% | 2.63 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Mfg: Other | HVAC | Existing | building | 164,347 | 19% | 7.86 | 15 | \$116,910 | 26% | 0.19 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Mfg: Other | HVAC | New | building | 164,347 | 0.6% | 0.25 | 15 | \$89,676 | 94% | 0.01 |
| FE-Met Ed | Water Source Heat Pump (4 ton) | Mfg: Other | HVAC | Early | heat pump | 164,347 | 1.5% | 0.57 | 15 | \$28,067 | 28% | 0.06 |
| FE-Met Ed | Water Source Heat Pump (4 ton) | Mfg: Other | HVAC | New | heat pump | 164,347 | 1.1% | 0.42 | 15 | \$13,679 | 28% | 0.09 |
| FE-Met Ed | Water Source Heat Pump (4 ton) | Mfg: Other | HVAC | ROB | heat pump | 164,347 | 1.1% | 0.42 | 15 | \$13,679 | 28% | 0.09 |
| FE-Met Ed | Efficient Metal Halide (High Bay) | Mfg: Other | Lighting | Early | end use | 116,655 | 42% | 0.00 | 9 | \$18,229 | 53% | 0.81 |
| FE-Met Ed | Efficient Metal Halide (High Bay) | Mfg: Other | Lighting | New | end use | 116,655 | 41% | 0.00 | 13 | \$486,895 | 61% | 0.05 |
| FE-Met Ed | Efficient Metal Halide (High Bay) | Mfg: Other | Lighting | ROB | end use | 116,655 | 41% | 0.00 | 13 | \$372,112 | 61% | 0.06 |
| FE-Met Ed | Induction (High Bay) | Mfg: Other | Lighting | Early | end use | 116,655 | 94% | 0.00 | 13 | \$54,238 | 95% | 0.87 |
| FE-Met Ed | Induction (High Bay) | Mfg: Other | Lighting | New | end use | 116,655 | 94% | 0.00 | 13 | \$50,781 | 95% | 0.92 |
| FE-Met Ed | Induction (High Bay) | Mfg: Other | Lighting | ROB | end use | 116,655 | 94% | 0.00 | 13 | \$38,595 | 95% | 1.16 |
| FE-Met Ed | LED (High Bay) | Mfg: Other | Lighting | Early | end use | 116,655 | 69% | 0.00 | 14 | \$63,846 | 95% | 0.60 |
| FE-Met Ed | LED (High Bay) | Mfg: Other | Lighting | New | end use | 116,655 | 55% | 0.00 | 14 | \$70,868 | 95% | 0.44 |
| FE-Met Ed | LED (High Bay) | Mfg: Other | Lighting | ROB | end use | 116,655 | 59% | 0.00 | 14 | \$46,694 | 95% | 0.69 |
| FE-Met Ed | Lighting Controls | Mfg: Other | Lighting | Existing | end use | 116,655 | 20% | 0.00 | 6 | \$437,325 | 16% | 0.01 |
| FE-Met Ed | Lighting Controls | Mfg: Other | Lighting | New | end use | 116,655 | 12% | 0.00 | 10 | \$581,785 | 11% | 0.01 |
| FE-Met Ed | Linear Fluorescent (High Bay) | Mfg: Other | Lighting | Early | end use | 116,655 | 17% | 0.00 | 14 | \$13,348 | 98% | 0.69 |
| FE-Met Ed | Linear Fluorescent (High Bay) | Mfg: Other | Lighting | New | end use | 116,655 | 13% | 0.00 | 14 | \$4,233 | 91% | 1.47 |
| FE-Met Ed | Linear Fluorescent (High Bay) | Mfg: Other | Lighting | ROB | end use | 116,655 | 13% | 0.00 | 14 | \$2,710 | 91% | 2.12 |
| FE-Met Ed | Metal Halide (High Bay) | Mfg: Other | Lighting | Early | end use | 116,655 | 62% | 0.00 | 13 | \$80,193 | 38% | 0.42 |
| FE-Met Ed | Metal Halide (High Bay) | Mfg: Other | Lighting | New | end use | 116,655 | 73% | 0.00 | 13 | \$19,173 | 38% | 1.65 |
| FE-Met Ed | Metal Halide (High Bay) | Mfg: Other | Lighting | ROB | end use | 116,655 | 73% | 0.00 | 13 | \$14,571 | 38% | 2.02 |
| FE-Met Ed | Screw Base CFL | Mfg: Other | Lighting | Early | end use | 116,655 | 80% | 0.00 | 7 | \$31,693 | 17% | 0.70 |
| FE-Met Ed | Screw Base CFL | Mfg: Other | Lighting | New | end use | 116,655 | 73% | 0.00 | 9 | \$25,901 | 18% | 0.95 |
| FE-Met Ed | Screw Base CFL | Mfg: Other | Lighting | ROB | end use | 116,655 | 73% | 0.00 | 9 | \$21,679 | 17% | 1.10 |
| FE-Met Ed | Screw Base LED | Mfg: Other | Lighting | Early | end use | 116,655 | 76% | 0.00 | 9 | \$19,450 | 21% | 1.28 |
| FE-Met Ed | Screw Base LED | Mfg: Other | Lighting | New | end use | 116,655 | 77% | 0.00 | 9 | \$10,835 | 20% | 1.95 |
| FE-Met Ed | Screw Base LED | Mfg: Other | Lighting | ROB | end use | 116,655 | 77% | 0.00 | 9 | \$8,601 | 21% | 2.25 |
| FE-Met Ed | T8 High Performance Linear Florescent | Mfg: Other | Lighting | Early | end use | 116,655 | 36% | 0.00 | 14 | \$11,163 | 71% | 1.56 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|--|------------|----------|----------|---------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | T8 High Performance Linear Florescent | Mfg: Other | Lighting | New | end use | 116,655 | 26% | 0.00 | 14 | \$3,994 | 76% | 2.63 |
| FE-Met Ed | T8 High Performance Linear Florescent | Mfg: Other | Lighting | ROB | end use | 116,655 | 26% | 0.00 | 14 | \$3,036 | 76% | 3.11 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Other | Motors | Early | end use | 25,707 | 0.9% | 0.03 | 15 | \$393 | 81% | 0.36 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Other | Motors | New | end use | 25,707 | 0.9% | 0.03 | 15 | \$393 | 81% | 0.36 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Other | Motors | ROB | end use | 25,707 | 0.9% | 0.03 | 15 | \$393 | 81% | 0.36 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Other | Motors | Early | end use | 25,707 | 0.7% | 0.03 | 15 | \$238 | 73% | 0.48 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Other | Motors | New | end use | 25,707 | 0.7% | 0.03 | 15 | \$238 | 73% | 0.48 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Other | Motors | ROB | end use | 25,707 | 0.7% | 0.03 | 15 | \$238 | 73% | 0.48 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Other | Motors | Early | end use | 25,707 | 0.4% | 0.02 | 15 | \$91 | 81% | 0.73 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Other | Motors | New | end use | 25,707 | 0.4% | 0.02 | 15 | \$91 | 81% | 0.73 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Other | Motors | ROB | end use | 25,707 | 0.4% | 0.02 | 15 | \$91 | 81% | 0.73 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Other | Motors | Early | end use | 25,707 | 0.4% | 0.01 | 15 | \$30 | 73% | 1.72 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Other | Motors | New | end use | 25,707 | 0.4% | 0.01 | 15 | \$30 | 73% | 1.72 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Other | Motors | ROB | end use | 25,707 | 0.4% | 0.01 | 15 | \$30 | 73% | 1.72 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Other | Motors | Early | end use | 25,707 | 0.9% | 0.03 | 15 | \$45 | 47% | 2.43 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Other | Motors | New | end use | 25,707 | 0.9% | 0.03 | 15 | \$45 | 47% | 2.43 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Other | Motors | ROB | end use | 25,707 | 0.9% | 0.03 | 15 | \$45 | 47% | 2.43 |
| FE-Met Ed | Facility Energy Management | Mfg: Other | Motors | Existing | end use | 25,707 | 1.9% | 0.07 | 2 | \$9.9 | 77% | 1.21 |
| FE-Met Ed | Facility Energy Management | Mfg: Other | Motors | New | end use | 25,707 | 1.9% | 0.07 | 2 | \$9.9 | 77% | 1.21 |
| FE-Met Ed | HE Motors | Mfg: Other | Motors | Early | end use | 25,707 | 2.0% | 0.08 | 15 | \$153 | 38% | 1.76 |
| FE-Met Ed | HE Motors | Mfg: Other | Motors | New | end use | 25,707 | 2.0% | 0.08 | 15 | \$153 | 38% | 1.76 |
| FE-Met Ed | HE Motors | Mfg: Other | Motors | ROB | end use | 25,707 | 2.0% | 0.08 | 15 | \$153 | 38% | 1.76 |
| FE-Met Ed | High-Efficiency Ventilation System | Mfg: Other | Motors | Early | end use | 25,707 | 5.7% | 0.21 | 10 | \$1,607 | 73% | 0.39 |
| FE-Met Ed | High-Efficiency Ventilation System | Mfg: Other | Motors | New | end use | 25,707 | 5.7% | 0.21 | 10 | \$1,607 | 73% | 0.39 |
| FE-Met Ed | High-Efficiency Ventilation System | Mfg: Other | Motors | ROB | end use | 25,707 | 5.7% | 0.21 | 10 | \$1,607 | 73% | 0.39 |
| FE-Met Ed | Improved Controls - Motors | Mfg: Other | Motors | Existing | end use | 25,707 | 4.0% | 0.15 | 10 | \$112 | 73% | 2.51 |
| FE-Met Ed | Improved Controls - Motors | Mfg: Other | Motors | New | end use | 25,707 | 4.0% | 0.15 | 10 | \$112 | 73% | 2.51 |
| FE-Met Ed | Motor Management Plan | Mfg: Other | Motors | Existing | end use | 25,707 | 2.9% | 0.11 | 10 | \$52 | 73% | 3.22 |
| FE-Met Ed | Motor Management Plan | Mfg: Other | Motors | New | end use | 25,707 | 2.9% | 0.11 | 10 | \$52 | 73% | 3.22 |
| FE-Met Ed | Motors Other | Mfg: Other | Motors | Existing | end use | 25,707 | 1.1% | 0.04 | 15 | \$5.1 | 83% | 7.20 |
| FE-Met Ed | Motors Other | Mfg: Other | Motors | New | end use | 25,707 | 1.1% | 0.04 | 15 | \$5.1 | 83% | 7.20 |
| FE-Met Ed | Motors: Rewind 101-200 HP | Mfg: Other | Motors | Existing | end use | 25,707 | 0.6% | 0.02 | 10 | \$32 | 27% | 1.53 |
| FE-Met Ed | Motors: Rewind 101-200 HP | Mfg: Other | Motors | New | end use | 25,707 | 0.6% | 0.02 | 10 | \$32 | 27% | 1.52 |
| FE-Met Ed | Motors: Rewind 201-500 HP | Mfg: Other | Motors | Existing | end use | 25,707 | 0.5% | 0.02 | 8 | \$20 | 27% | 1.76 |
| FE-Met Ed | Motors: Rewind 201-500 HP | Mfg: Other | Motors | New | end use | 25,707 | 0.6% | 0.02 | 8 | \$20 | 27% | 1.78 |
| FE-Met Ed | Motors: Rewind 20-50 HP | Mfg: Other | Motors | Existing | end use | 25,707 | 1.0% | 0.04 | 11 | \$95 | 42% | 1.15 |
| FE-Met Ed | Motors: Rewind 20-50 HP | Mfg: Other | Motors | New | end use | 25,707 | 1.0% | 0.04 | 11 | \$95 | 42% | 1.15 |
| FE-Met Ed | Motors: Rewind 500+ HP | Mfg: Other | Motors | Existing | end use | 25,707 | 0.6% | 0.02 | 8 | \$15 | 11% | 2.21 |
| FE-Met Ed | Motors: Rewind 500+ HP | Mfg: Other | Motors | New | end use | 25,707 | 0.6% | 0.02 | 8 | \$15 | 11% | 2.21 |
| FE-Met Ed | Motors: Rewind 51-100 HP | Mfg: Other | Motors | Existing | end use | 25,707 | 0.6% | 0.02 | 9 | \$47 | 42% | 1.13 |
| FE-Met Ed | Motors: Rewind 51-100 HP | Mfg: Other | Motors | New | end use | 25,707 | 0.6% | 0.02 | 9 | \$47 | 42% | 1.12 |
| FE-Met Ed | Switch from Belt drive to Direct Drive | Mfg: Other | Motors | Early | end use | 25,707 | 7.5% | 0.28 | 12 | \$412 | 30% | 1.84 |
| FE-Met Ed | Switch from Belt drive to Direct Drive | Mfg: Other | Motors | New | end use | 25,707 | 7.5% | 0.28 | 12 | \$412 | 30% | 1.84 |
| FE-Met Ed | Switch from Belt drive to Direct Drive | Mfg: Other | Motors | ROB | end use | 25,707 | 7.5% | 0.28 | 12 | \$412 | 30% | 1.84 |
| FE-Met Ed | Synchronous Belts | Mfg: Other | Motors | Early | end use | 25,707 | 1.2% | 0.04 | 10 | \$38 | 30% | 2.30 |
| FE-Met Ed | Synchronous Belts | Mfg: Other | Motors | New | end use | 25,707 | 1.2% | 0.04 | 10 | \$38 | 30% | 2.30 |
| FE-Met Ed | Synchronous Belts | Mfg: Other | Motors | ROB | end use | 25,707 | 1.2% | 0.04 | 10 | \$38 | 30% | 2.30 |
| FE-Met Ed | Bldg Improvements | Mfg: Other | Other | Existing | end use | 35,450 | 16% | 0.68 | 15 | \$773 | 72% | 3.03 |
| FE-Met Ed | Bldg Improvements | Mfg: Other | Other | New | end use | 35,450 | 16% | 0.68 | 15 | \$773 | 72% | 3.03 |
| FE-Met Ed | Energy Project Management | Mfg: Other | Other | Existing | end use | 35,450 | 29% | 1.22 | 11 | \$1,265 | 63% | 2.45 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|-------------------------------------|------------|------------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Energy Project Management | Mfg: Other | Other | New | end use | 35,450 | 29% | 1.22 | 11 | \$1,265 | 63% | 2.45 |
| FE-Met Ed | Facility Energy Management | Mfg: Other | Other | Existing | end use | 35,450 | 1.9% | 0.08 | 2 | \$14 | 76% | 1.18 |
| FE-Met Ed | Facility Energy Management | Mfg: Other | Other | New | end use | 35,450 | 1.9% | 0.08 | 2 | \$14 | 76% | 1.18 |
| FE-Met Ed | Integrated Plant Energy Management | Mfg: Other | Other | Existing | end use | 35,450 | 50% | 2.11 | 11 | \$3,494 | 48% | 1.78 |
| FE-Met Ed | Integrated Plant Energy Management | Mfg: Other | Other | New | end use | 35,450 | 50% | 2.11 | 11 | \$3,494 | 48% | 1.78 |
| FE-Met Ed | Plant Energy Management | Mfg: Other | Other | Existing | end use | 35,450 | 12% | 0.51 | 10 | \$89 | 55% | 4.84 |
| FE-Met Ed | Plant Energy Management | Mfg: Other | Other | New | end use | 35,450 | 12% | 0.51 | 10 | \$89 | 55% | 4.84 |
| FE-Met Ed | Transformers | Mfg: Other | Other | Early | end use | 35,450 | 1.6% | 0.07 | 15 | \$113 | 34% | 2.27 |
| FE-Met Ed | Transformers | Mfg: Other | Other | New | end use | 35,450 | 1.6% | 0.07 | 15 | \$113 | 34% | 2.27 |
| FE-Met Ed | Transformers | Mfg: Other | Other | ROB | end use | 35,450 | 1.6% | 0.07 | 15 | \$113 | 34% | 2.27 |
| FE-Met Ed | Air Compressor Demand Reduction | Mfg: Other | Process Air Compressor | Existing | end use | 1,454 | 26% | 0.05 | 10 | \$22 | 52% | 3.47 |
| FE-Met Ed | Air Compressor Demand Reduction | Mfg: Other | Process Air Compressor | New | end use | 1,454 | 26% | 0.05 | 10 | \$22 | 52% | 3.47 |
| FE-Met Ed | Air Compressor Equipment | Mfg: Other | Process Air Compressor | Early | end use | 1,454 | 39% | 0.07 | 10 | \$26 | 73% | 3.81 |
| FE-Met Ed | Air Compressor Equipment | Mfg: Other | Process Air Compressor | New | end use | 1,454 | 39% | 0.07 | 10 | \$26 | 73% | 3.81 |
| FE-Met Ed | Air Compressor Equipment | Mfg: Other | Process Air Compressor | ROB | end use | 1,454 | 39% | 0.07 | 10 | \$26 | 73% | 3.81 |
| FE-Met Ed | Air Compressor Optimization | Mfg: Other | Process Air Compressor | Existing | end use | 1,454 | 39% | 0.07 | 10 | \$63 | 55% | 2.47 |
| FE-Met Ed | Air Compressor Optimization | Mfg: Other | Process Air Compressor | New | end use | 1,454 | 39% | 0.07 | 10 | \$63 | 55% | 2.47 |
| FE-Met Ed | Facility Energy Management | Mfg: Other | Process Air Compressor | Existing | end use | 1,454 | 1.9% | 0.00 | 2 | \$0.6 | 62% | 1.19 |
| FE-Met Ed | Facility Energy Management | Mfg: Other | Process Air Compressor | New | end use | 1,454 | 1.9% | 0.00 | 2 | \$0.6 | 62% | 1.19 |
| FE-Met Ed | HE Compressor motors | Mfg: Other | Process Air Compressor | Early | end use | 1,454 | 1.1% | 0.00 | 15 | \$5.5 | 73% | 1.52 |
| FE-Met Ed | HE Compressor motors | Mfg: Other | Process Air Compressor | New | end use | 1,454 | 1.1% | 0.00 | 15 | \$5.5 | 73% | 1.52 |
| FE-Met Ed | HE Compressor motors | Mfg: Other | Process Air Compressor | ROB | end use | 1,454 | 1.1% | 0.00 | 15 | \$5.5 | 73% | 1.52 |
| FE-Met Ed | Improved Controls - Air Compressor | Mfg: Other | Process Air Compressor | Existing | end use | 1,454 | 41% | 0.08 | 10 | \$26 | 25% | 3.91 |
| FE-Met Ed | Improved Controls - Air Compressor | Mfg: Other | Process Air Compressor | New | end use | 1,454 | 41% | 0.08 | 10 | \$26 | 25% | 3.91 |
| FE-Met Ed | Low Pressure-drop Filters | Mfg: Other | Process Air Compressor | Existing | end use | 1,454 | 1.8% | 0.00 | 10 | \$17 | 61% | 0.65 |
| FE-Met Ed | Low Pressure-drop Filters | Mfg: Other | Process Air Compressor | New | end use | 1,454 | 1.8% | 0.00 | 10 | \$17 | 61% | 0.65 |
| FE-Met Ed | Outside Air Intake | Mfg: Other | Process Air Compressor | Existing | end use | 1,454 | 1.4% | 0.00 | 10 | \$9.6 | 48% | 0.85 |
| FE-Met Ed | Outside Air Intake | Mfg: Other | Process Air Compressor | New | end use | 1,454 | 1.4% | 0.00 | 10 | \$9.6 | 48% | 0.84 |
| FE-Met Ed | Receiver Capacity Addition | Mfg: Other | Process Air Compressor | Existing | end use | 1,454 | 5.9% | 0.01 | 10 | \$27 | 36% | 1.17 |
| FE-Met Ed | Receiver Capacity Addition | Mfg: Other | Process Air Compressor | New | end use | 1,454 | 5.9% | 0.01 | 10 | \$27 | 36% | 1.17 |
| FE-Met Ed | Refrigerated Cycling Dryers | Mfg: Other | Process Air Compressor | Early | end use | 1,454 | 1.7% | 0.00 | 10 | \$3.3 | 21% | 2.14 |
| FE-Met Ed | Refrigerated Cycling Dryers | Mfg: Other | Process Air Compressor | New | end use | 1,454 | 1.7% | 0.00 | 10 | \$3.3 | 21% | 2.14 |
| FE-Met Ed | Refrigerated Cycling Dryers | Mfg: Other | Process Air Compressor | ROB | end use | 1,454 | 1.7% | 0.00 | 10 | \$3.3 | 21% | 2.14 |
| FE-Met Ed | VFD Controlled Compressor | Mfg: Other | Process Air Compressor | Early | end use | 1,454 | 24% | 0.04 | 10 | \$143 | 28% | 0.92 |
| FE-Met Ed | VFD Controlled Compressor | Mfg: Other | Process Air Compressor | New | end use | 1,454 | 24% | 0.04 | 10 | \$143 | 28% | 0.92 |
| FE-Met Ed | VFD Controlled Compressor | Mfg: Other | Process Air Compressor | ROB | end use | 1,454 | 24% | 0.04 | 10 | \$143 | 28% | 0.92 |
| FE-Met Ed | Zero Loss Condensate Drain | Mfg: Other | Process Air Compressor | Early | end use | 1,454 | 1.8% | 0.00 | 10 | \$8.3 | 36% | 1.14 |
| FE-Met Ed | Zero Loss Condensate Drain | Mfg: Other | Process Air Compressor | New | end use | 1,454 | 1.8% | 0.00 | 10 | \$8.3 | 36% | 1.14 |
| FE-Met Ed | Zero Loss Condensate Drain | Mfg: Other | Process Air Compressor | ROB | end use | 1,454 | 1.8% | 0.00 | 10 | \$8.3 | 36% | 1.14 |
| FE-Met Ed | Cooling Tower Optimization | Mfg: Other | Process Cooling | Existing | building | 21,183 | 20% | 1.52 | 10 | \$130 | 23% | 5.47 |
| FE-Met Ed | Equipment: Chillers | Mfg: Other | Process Cooling | Early | end use | 21,183 | 18% | 0.79 | 15 | \$994 | 46% | 2.02 |
| FE-Met Ed | Equipment: Chillers | Mfg: Other | Process Cooling | New | end use | 21,183 | 18% | 0.79 | 15 | \$994 | 46% | 2.02 |
| FE-Met Ed | Equipment: Chillers | Mfg: Other | Process Cooling | ROB | end use | 21,183 | 18% | 0.79 | 15 | \$994 | 46% | 2.01 |
| FE-Met Ed | Facility Energy Management | Mfg: Other | Process Cooling | Existing | end use | 21,183 | 1.9% | 0.08 | 2 | \$8.2 | 59% | 1.27 |
| FE-Met Ed | Facility Energy Management | Mfg: Other | Process Cooling | New | end use | 21,183 | 1.9% | 0.08 | 2 | \$8.2 | 59% | 1.27 |
| FE-Met Ed | Improved Controls - Process Cooling | Mfg: Other | Process Cooling | Existing | end use | 21,183 | 6.0% | 0.26 | 10 | \$1,118 | 56% | 0.50 |
| FE-Met Ed | Improved Controls - Process Cooling | Mfg: Other | Process Cooling | New | end use | 21,183 | 6.0% | 0.26 | 10 | \$1,118 | 56% | 0.50 |
| FE-Met Ed | VFD on Cooling Tower Fan | Mfg: Other | Process Cooling | Early | motor | 21,183 | 21% | 1.33 | 15 | \$976 | 24% | 2.54 |
| FE-Met Ed | VFD on Cooling Tower Fan | Mfg: Other | Process Cooling | New | motor | 21,183 | 22% | 1.33 | 15 | \$995 | 24% | 2.53 |
| FE-Met Ed | VFD on Cooling Tower Fan | Mfg: Other | Process Cooling | ROB | motor | 21,183 | 22% | 1.33 | 15 | \$995 | 24% | 2.53 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---------------------------------------|------------|-----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Improved Controls - Process Heating | Mfg: Other | Process Heating | Existing | end use | 72,519 | 17% | 1.70 | 10 | \$833 | 77% | 3.24 |
| FE-Met Ed | Improved Controls - Process Heating | Mfg: Other | Process Heating | New | end use | 72,519 | 17% | 1.70 | 10 | \$833 | 77% | 3.24 |
| FE-Met Ed | Process Heat O&M | Mfg: Other | Process Heating | Existing | end use | 72,519 | 16% | 1.61 | 2 | \$504 | 77% | 0.95 |
| FE-Met Ed | Process Heat O&M | Mfg: Other | Process Heating | New | end use | 72,519 | 16% | 1.61 | 2 | \$504 | 77% | 0.95 |
| FE-Met Ed | Facility Energy Management | Mfg: Other | Process Other | Existing | end use | 13,636 | 1.9% | 0.04 | 2 | \$5.3 | 73% | 1.19 |
| FE-Met Ed | Facility Energy Management | Mfg: Other | Process Other | New | end use | 13,636 | 1.9% | 0.04 | 2 | \$5.3 | 73% | 1.19 |
| FE-Met Ed | Adjustable speed drive on compressors | Mfg: Other | Process Refrigeration | Early | end use | 10,882 | 12% | 0.19 | 10 | \$201 | 64% | 1.99 |
| FE-Met Ed | Adjustable speed drive on compressors | Mfg: Other | Process Refrigeration | New | end use | 10,882 | 12% | 0.19 | 10 | \$201 | 64% | 1.99 |
| FE-Met Ed | Adjustable speed drive on compressors | Mfg: Other | Process Refrigeration | ROB | end use | 10,882 | 12% | 0.19 | 10 | \$201 | 64% | 1.99 |
| FE-Met Ed | Cooling Tower Optimization | Mfg: Other | Process Refrigeration | Existing | building | 10,882 | 20% | 0.78 | 10 | \$67 | 23% | 5.47 |
| FE-Met Ed | Optimization of operating parameters | Mfg: Other | Process Refrigeration | Existing | end use | 10,882 | 13% | 0.21 | 3 | \$88 | 57% | 1.20 |
| FE-Met Ed | Optimization of operating parameters | Mfg: Other | Process Refrigeration | New | end use | 10,882 | 13% | 0.21 | 3 | \$88 | 57% | 1.21 |
| FE-Met Ed | Synchronous Belts | Mfg: Other | Process Refrigeration | Early | end use | 10,882 | 1.2% | 0.02 | 10 | \$16 | 64% | 2.31 |
| FE-Met Ed | Synchronous Belts | Mfg: Other | Process Refrigeration | New | end use | 10,882 | 1.2% | 0.02 | 10 | \$16 | 64% | 2.31 |
| FE-Met Ed | Synchronous Belts | Mfg: Other | Process Refrigeration | ROB | end use | 10,882 | 1.2% | 0.02 | 10 | \$16 | 64% | 2.31 |
| FE-Met Ed | VFD on Cooling Tower Fan | Mfg: Other | Process Refrigeration | Early | motor | 10,882 | 21% | 0.68 | 15 | \$501 | 24% | 2.54 |
| FE-Met Ed | VFD on Cooling Tower Fan | Mfg: Other | Process Refrigeration | New | motor | 10,882 | 22% | 0.68 | 15 | \$511 | 24% | 2.53 |
| FE-Met Ed | VFD on Cooling Tower Fan | Mfg: Other | Process Refrigeration | ROB | motor | 10,882 | 22% | 0.68 | 15 | \$511 | 24% | 2.53 |
| FE-Met Ed | Facility Energy Management | Mfg: Other | Pumps | Existing | end use | 144,104 | 1.9% | 0.35 | 2 | \$56 | 73% | 1.22 |
| FE-Met Ed | Facility Energy Management | Mfg: Other | Pumps | New | end use | 144,104 | 1.9% | 0.35 | 2 | \$56 | 73% | 1.22 |
| FE-Met Ed | HE Motors | Mfg: Other | Pumps | Early | end use | 144,104 | 2.0% | 0.38 | 15 | \$858 | 77% | 1.74 |
| FE-Met Ed | HE Motors | Mfg: Other | Pumps | New | end use | 144,104 | 2.0% | 0.38 | 15 | \$858 | 77% | 1.74 |
| FE-Met Ed | HE Motors | Mfg: Other | Pumps | ROB | end use | 144,104 | 2.0% | 0.38 | 15 | \$858 | 77% | 1.74 |
| FE-Met Ed | Motor rewinds | Mfg: Other | Pumps | Existing | end use | 144,104 | 0.6% | 0.11 | 9 | \$205 | 12% | 1.38 |
| FE-Met Ed | Motor rewinds | Mfg: Other | Pumps | New | end use | 144,104 | 0.6% | 0.11 | 9 | \$205 | 12% | 1.37 |
| FE-Met Ed | Pump Equipment Upgrade | Mfg: Other | Pumps | Early | end use | 144,104 | 20% | 3.75 | 12 | \$3,603 | 86% | 2.64 |
| FE-Met Ed | Pump Equipment Upgrade | Mfg: Other | Pumps | New | end use | 144,104 | 20% | 3.75 | 12 | \$3,603 | 86% | 2.64 |
| FE-Met Ed | Pump Equipment Upgrade | Mfg: Other | Pumps | ROB | end use | 144,104 | 20% | 3.75 | 12 | \$3,603 | 86% | 2.64 |
| FE-Met Ed | Pump System Optimization | Mfg: Other | Pumps | Existing | end use | 144,104 | 8.7% | 1.63 | 12 | \$2,638 | 40% | 1.88 |
| FE-Met Ed | Pump System Optimization | Mfg: Other | Pumps | New | end use | 144,104 | 8.7% | 1.63 | 12 | \$2,638 | 40% | 1.88 |
| FE-Met Ed | Synchronous Belts | Mfg: Other | Pumps | Early | end use | 144,104 | 1.2% | 0.22 | 10 | \$212 | 64% | 2.27 |
| FE-Met Ed | Synchronous Belts | Mfg: Other | Pumps | New | end use | 144,104 | 1.2% | 0.22 | 10 | \$212 | 64% | 2.27 |
| FE-Met Ed | Synchronous Belts | Mfg: Other | Pumps | ROB | end use | 144,104 | 1.2% | 0.22 | 10 | \$212 | 64% | 2.27 |
| FE-Met Ed | Circulating Fans | Mfg: Paper | Fans | Early | end use | 672,345 | 5.0% | 4.00 | 10 | \$4,093 | 68% | 2.35 |
| FE-Met Ed | Circulating Fans | Mfg: Paper | Fans | New | end use | 672,345 | 5.0% | 4.00 | 10 | \$4,093 | 68% | 2.35 |
| FE-Met Ed | Circulating Fans | Mfg: Paper | Fans | ROB | end use | 672,345 | 5.0% | 4.00 | 10 | \$4,093 | 68% | 2.35 |
| FE-Met Ed | Efficient Centrifugal Fan | Mfg: Paper | Fans | Early | end use | 672,345 | 20% | 16.01 | 10 | \$24,449 | 68% | 1.79 |
| FE-Met Ed | Efficient Centrifugal Fan | Mfg: Paper | Fans | New | end use | 672,345 | 20% | 16.01 | 10 | \$24,449 | 68% | 1.79 |
| FE-Met Ed | Efficient Centrifugal Fan | Mfg: Paper | Fans | ROB | end use | 672,345 | 20% | 16.01 | 10 | \$24,449 | 68% | 1.79 |
| FE-Met Ed | Facility Energy Management | Mfg: Paper | Fans | Existing | end use | 672,345 | 1.9% | 1.47 | 2 | \$259 | 77% | 1.20 |
| FE-Met Ed | Facility Energy Management | Mfg: Paper | Fans | New | end use | 672,345 | 1.9% | 1.47 | 2 | \$259 | 77% | 1.21 |
| FE-Met Ed | Fan Equipment Upgrade | Mfg: Paper | Fans | Early | end use | 672,345 | 35% | 28.01 | 10 | \$20,170 | 68% | 2.90 |
| FE-Met Ed | Fan Equipment Upgrade | Mfg: Paper | Fans | New | end use | 672,345 | 35% | 28.01 | 10 | \$20,170 | 68% | 2.90 |
| FE-Met Ed | Fan Equipment Upgrade | Mfg: Paper | Fans | ROB | end use | 672,345 | 35% | 28.01 | 10 | \$20,170 | 68% | 2.90 |
| FE-Met Ed | Fan System Optimization | Mfg: Paper | Fans | Existing | end use | 672,345 | 7.3% | 5.87 | 10 | \$9,171 | 83% | 1.76 |
| FE-Met Ed | Fan System Optimization | Mfg: Paper | Fans | New | end use | 672,345 | 7.3% | 5.87 | 10 | \$9,171 | 83% | 1.76 |
| FE-Met Ed | HE Motors | Mfg: Paper | Fans | Early | end use | 672,345 | 2.0% | 1.64 | 15 | \$4,003 | 77% | 1.77 |
| FE-Met Ed | HE Motors | Mfg: Paper | Fans | New | end use | 672,345 | 2.0% | 1.64 | 15 | \$4,003 | 77% | 1.77 |
| FE-Met Ed | HE Motors | Mfg: Paper | Fans | ROB | end use | 672,345 | 2.0% | 1.64 | 15 | \$4,003 | 77% | 1.77 |
| FE-Met Ed | Improved Controls - Fans | Mfg: Paper | Fans | Existing | end use | 672,345 | 7.1% | 5.69 | 10 | \$2,607 | 88% | 3.62 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|--|------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Improved Controls - Fans | Mfg: Paper | Fans | New | end use | 672,345 | 7.1% | 5.69 | 10 | \$2,607 | 88% | 3.62 |
| FE-Met Ed | Paper: Premium Fan | Mfg: Paper | Fans | Early | end use | 672,345 | 20% | 16.01 | 10 | \$24,449 | 61% | 1.79 |
| FE-Met Ed | Paper: Premium Fan | Mfg: Paper | Fans | New | end use | 672,345 | 20% | 16.01 | 10 | \$24,449 | 61% | 1.79 |
| FE-Met Ed | Paper: Premium Fan | Mfg: Paper | Fans | ROB | end use | 672,345 | 20% | 16.01 | 10 | \$24,449 | 61% | 1.79 |
| FE-Met Ed | Properly Sized Fans | Mfg: Paper | Fans | Early | end use | 672,345 | 13% | 10.53 | 10 | \$13,771 | 41% | 2.00 |
| FE-Met Ed | Properly Sized Fans | Mfg: Paper | Fans | New | end use | 672,345 | 13% | 10.53 | 10 | \$13,771 | 41% | 2.00 |
| FE-Met Ed | Properly Sized Fans | Mfg: Paper | Fans | ROB | end use | 672,345 | 13% | 10.53 | 10 | \$13,771 | 41% | 2.00 |
| FE-Met Ed | Synchronous Belts | Mfg: Paper | Fans | Early | end use | 672,345 | 1.2% | 0.93 | 10 | \$991 | 41% | 2.30 |
| FE-Met Ed | Synchronous Belts | Mfg: Paper | Fans | New | end use | 672,345 | 1.2% | 0.93 | 10 | \$991 | 41% | 2.30 |
| FE-Met Ed | Synchronous Belts | Mfg: Paper | Fans | ROB | end use | 672,345 | 1.2% | 0.93 | 10 | \$991 | 41% | 2.30 |
| FE-Met Ed | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Paper | HVAC | Early | unit (ton) | 138,307 | 9.2% | 3.29 | 15 | \$25,194 | 28% | 0.36 |
| FE-Met Ed | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Paper | HVAC | New | unit (ton) | 138,307 | 4.1% | 1.48 | 15 | \$6,104 | 28% | 0.64 |
| FE-Met Ed | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Paper | HVAC | ROB | unit (ton) | 138,307 | 4.1% | 1.48 | 15 | \$6,104 | 28% | 0.64 |
| FE-Met Ed | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Paper | HVAC | Early | unit (ton) | 138,307 | 12% | 4.45 | 15 | \$29,702 | 28% | 0.41 |
| FE-Met Ed | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Paper | HVAC | New | unit (ton) | 138,307 | 7.7% | 2.76 | 15 | \$12,857 | 28% | 0.57 |
| FE-Met Ed | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Paper | HVAC | ROB | unit (ton) | 138,307 | 7.7% | 2.76 | 15 | \$12,857 | 28% | 0.57 |
| FE-Met Ed | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Paper | HVAC | Early | unit (ton) | 138,307 | 15% | 5.47 | 15 | \$34,209 | 29% | 0.43 |
| FE-Met Ed | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Paper | HVAC | New | unit (ton) | 138,307 | 11% | 3.88 | 15 | \$19,609 | 29% | 0.53 |
| FE-Met Ed | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Paper | HVAC | ROB | unit (ton) | 138,307 | 11% | 3.88 | 15 | \$19,609 | 29% | 0.53 |
| FE-Met Ed | >760k min 10.2 EER Air Conditioner | Mfg: Paper | HVAC | Early | unit (ton) | 138,307 | 2.1% | 0.76 | 15 | \$43,874 | 35% | 0.05 |
| FE-Met Ed | >760k min 10.2 EER Air Conditioner | Mfg: Paper | HVAC | New | unit (ton) | 138,307 | 2.8% | 1.01 | 15 | \$3,965 | 35% | 0.68 |
| FE-Met Ed | >760k min 10.2 EER Air Conditioner | Mfg: Paper | HVAC | ROB | unit (ton) | 138,307 | 2.8% | 1.01 | 15 | \$3,965 | 35% | 0.68 |
| FE-Met Ed | 135-240k min 12 EER Air Conditioner | Mfg: Paper | HVAC | Early | unit (ton) | 138,307 | 10% | 3.75 | 15 | \$47,509 | 35% | 0.22 |
| FE-Met Ed | 135-240k min 12 EER Air Conditioner | Mfg: Paper | HVAC | New | unit (ton) | 138,307 | 5.8% | 2.07 | 15 | \$5,610 | 35% | 0.95 |
| FE-Met Ed | 135-240k min 12 EER Air Conditioner | Mfg: Paper | HVAC | ROB | unit (ton) | 138,307 | 5.8% | 2.07 | 15 | \$5,610 | 35% | 0.95 |
| FE-Met Ed | 240k-760k min 11 EER Air Conditioner | Mfg: Paper | HVAC | Early | unit (ton) | 138,307 | 5.2% | 1.87 | 15 | \$43,902 | 35% | 0.12 |
| FE-Met Ed | 240k-760k min 11 EER Air Conditioner | Mfg: Paper | HVAC | New | unit (ton) | 138,307 | 5.3% | 1.92 | 15 | \$4,703 | 35% | 1.04 |
| FE-Met Ed | 240k-760k min 11 EER Air Conditioner | Mfg: Paper | HVAC | ROB | unit (ton) | 138,307 | 5.3% | 1.92 | 15 | \$4,703 | 35% | 1.04 |
| FE-Met Ed | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Paper | HVAC | Early | unit (ton) | 138,307 | 9.7% | 3.48 | 15 | \$48,645 | 35% | 0.20 |
| FE-Met Ed | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Paper | HVAC | New | unit (ton) | 138,307 | 3.8% | 1.38 | 15 | \$6,940 | 35% | 0.53 |
| FE-Met Ed | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Paper | HVAC | ROB | unit (ton) | 138,307 | 3.8% | 1.38 | 15 | \$6,940 | 35% | 0.53 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Mfg: Paper | HVAC | Existing | building | 138,307 | 5.9% | 2.05 | 15 | \$419,050 | 71% | 0.01 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Mfg: Paper | HVAC | New | building | 138,307 | 3.7% | 1.29 | 15 | \$398,318 | 94% | 0.01 |
| FE-Met Ed | Chiller Tuneup/Diagnostics | Mfg: Paper | HVAC | Existing | building | 138,307 | 8.0% | 4.06 | 10 | \$353,161 | 59% | 0.02 |
| FE-Met Ed | Chiller Tuneup/Diagnostics | Mfg: Paper | HVAC | New | building | 138,307 | 8.0% | 4.06 | 10 | \$353,161 | 59% | 0.02 |
| FE-Met Ed | Cooling Tower Optimization | Mfg: Paper | HVAC | Existing | building | 138,307 | 20% | 9.90 | 10 | \$848 | 14% | 5.42 |
| FE-Met Ed | Duct Insulation, Add R8 | Mfg: Paper | HVAC | Existing | building | 138,307 | 1.5% | 0.44 | 15 | \$1,099 | 18% | 1.20 |
| FE-Met Ed | Duct Insulation, Add R8 | Mfg: Paper | HVAC | New | building | 138,307 | 1.5% | 0.44 | 15 | \$1,099 | 9% | 1.20 |
| FE-Met Ed | Ductless Heat Pump | Mfg: Paper | HVAC | Early | heat pump | 138,307 | 0.8% | 0.26 | 15 | \$10,985 | 83% | 0.07 |
| FE-Met Ed | Ductless Heat Pump | Mfg: Paper | HVAC | New | heat pump | 138,307 | 0.4% | 0.14 | 15 | \$3,190 | 83% | 0.13 |
| FE-Met Ed | Ductless Heat Pump | Mfg: Paper | HVAC | ROB | heat pump | 138,307 | 0.4% | 0.14 | 15 | \$3,190 | 83% | 0.13 |
| FE-Met Ed | DX Coil Cleaning | Mfg: Paper | HVAC | Existing | building | 138,307 | 13% | 6.34 | 1 | \$1,326 | 73% | 0.52 |
| FE-Met Ed | DX Coil Cleaning | Mfg: Paper | HVAC | New | building | 138,307 | 13% | 6.34 | 1 | \$1,326 | 73% | 0.52 |
| FE-Met Ed | Efficient Unit Heating System | Mfg: Paper | HVAC | Early | heater | 138,307 | 6.9% | 0.08 | 15 | \$7,450 | 83% | 0.63 |
| FE-Met Ed | Efficient Unit Heating System | Mfg: Paper | HVAC | New | heater | 138,307 | 4.0% | 0.05 | 15 | \$5,082 | 83% | 0.53 |
| FE-Met Ed | Efficient Unit Heating System | Mfg: Paper | HVAC | ROB | heater | 138,307 | 4.0% | 0.05 | 15 | \$5,082 | 83% | 0.53 |
| FE-Met Ed | Ground Source Heat Pump (Closed Loop) | Mfg: Paper | HVAC | Early | heat pump | 138,307 | 1.3% | 0.40 | 15 | \$22,809 | 19% | 0.05 |
| FE-Met Ed | Ground Source Heat Pump (Closed Loop) | Mfg: Paper | HVAC | New | heat pump | 138,307 | 1.0% | 0.32 | 15 | \$9,006 | 19% | 0.11 |
| FE-Met Ed | Ground Source Heat Pump (Closed Loop) | Mfg: Paper | HVAC | ROB | heat pump | 138,307 | 1.0% | 0.32 | 15 | \$9,006 | 19% | 0.11 |
| FE-Met Ed | Ground Source Heat Pump (Open Loop) | Mfg: Paper | HVAC | Early | heat pump | 138,307 | 1.3% | 0.40 | 15 | \$14,608 | 19% | 0.08 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Ground Source Heat Pump (Open Loop) | Mfg: Paper | HVAC | New | heat pump | 138,307 | 1.0% | 0.32 | 15 | \$310 | 19% | 2.35 |
| FE-Met Ed | Ground Source Heat Pump (Open Loop) | Mfg: Paper | HVAC | ROB | heat pump | 138,307 | 1.0% | 0.32 | 15 | \$310 | 19% | 2.35 |
| FE-Met Ed | HE Air Cooled Chiller, 100 Tons | Mfg: Paper | HVAC | Early | unit (ton) | 138,307 | 1.5% | 0.46 | 15 | \$162,602 | 89% | 0.01 |
| FE-Met Ed | HE Air Cooled Chiller, 100 Tons | Mfg: Paper | HVAC | New | unit (ton) | 138,307 | 0.4% | 0.13 | 15 | \$23,688 | 89% | 0.02 |
| FE-Met Ed | HE Air Cooled Chiller, 100 Tons | Mfg: Paper | HVAC | ROB | unit (ton) | 138,307 | 0.4% | 0.13 | 15 | \$23,688 | 89% | 0.02 |
| FE-Met Ed | HE Air Cooled Chiller, 150 Tons | Mfg: Paper | HVAC | Early | unit (ton) | 138,307 | 1.5% | 0.45 | 15 | \$140,452 | 89% | 0.01 |
| FE-Met Ed | HE Air Cooled Chiller, 150 Tons | Mfg: Paper | HVAC | New | unit (ton) | 138,307 | 0.3% | 0.09 | 15 | \$11,633 | 89% | 0.03 |
| FE-Met Ed | HE Air Cooled Chiller, 150 Tons | Mfg: Paper | HVAC | ROB | unit (ton) | 138,307 | 0.3% | 0.09 | 15 | \$11,633 | 89% | 0.03 |
| FE-Met Ed | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Paper | HVAC | Early | heat pump | 138,307 | 1.4% | 0.43 | 12 | \$5,954 | 81% | 0.17 |
| FE-Met Ed | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Paper | HVAC | Early | heat pump | 138,307 | 1.1% | 0.35 | 12 | \$4,350 | 81% | 0.20 |
| FE-Met Ed | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Paper | HVAC | New | heat pump | 138,307 | 1.0% | 0.32 | 12 | \$2,658 | 81% | 0.29 |
| FE-Met Ed | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Paper | HVAC | New | heat pump | 138,307 | 0.8% | 0.24 | 12 | \$929 | 81% | 0.59 |
| FE-Met Ed | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Paper | HVAC | ROB | heat pump | 138,307 | 1.0% | 0.32 | 12 | \$2,658 | 81% | 0.29 |
| FE-Met Ed | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Paper | HVAC | ROB | heat pump | 138,307 | 0.8% | 0.24 | 12 | \$929 | 81% | 0.59 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Paper | HVAC | Early | unit (ton) | 138,307 | 1.6% | 0.50 | 15 | \$12,902 | 89% | 0.12 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Paper | HVAC | New | unit (ton) | 138,307 | 0.9% | 0.29 | 15 | \$4,291 | 89% | 0.21 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Paper | HVAC | ROB | unit (ton) | 138,307 | 0.9% | 0.29 | 15 | \$4,291 | 89% | 0.21 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Paper | HVAC | Early | unit (ton) | 138,307 | 1.4% | 0.44 | 15 | \$12,600 | 89% | 0.11 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Paper | HVAC | New | unit (ton) | 138,307 | 1.0% | 0.31 | 15 | \$2,461 | 89% | 0.38 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Paper | HVAC | ROB | unit (ton) | 138,307 | 1.4% | 0.44 | 15 | \$2,260 | 89% | 0.58 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Paper | HVAC | Early | unit (ton) | 138,307 | 1.4% | 0.44 | 15 | \$14,913 | 89% | 0.09 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Paper | HVAC | New | unit (ton) | 138,307 | 0.9% | 0.28 | 15 | \$6,279 | 89% | 0.14 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Paper | HVAC | ROB | unit (ton) | 138,307 | 1.4% | 0.44 | 15 | \$5,683 | 89% | 0.24 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Paper | HVAC | Early | unit (ton) | 138,307 | 1.4% | 0.44 | 15 | \$14,365 | 89% | 0.10 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Paper | HVAC | New | unit (ton) | 138,307 | 0.9% | 0.28 | 15 | \$5,458 | 89% | 0.16 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Paper | HVAC | ROB | unit (ton) | 138,307 | 1.4% | 0.44 | 15 | \$4,940 | 89% | 0.27 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Paper | HVAC | Early | unit (ton) | 138,307 | 1.8% | 0.57 | 15 | \$15,479 | 89% | 0.11 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Paper | HVAC | New | unit (ton) | 138,307 | 0.6% | 0.17 | 15 | \$9,585 | 89% | 0.06 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Paper | HVAC | ROB | unit (ton) | 138,307 | 1.8% | 0.57 | 15 | \$7,442 | 89% | 0.24 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Paper | HVAC | Early | unit (ton) | 138,307 | 2.2% | 0.67 | 15 | \$14,237 | 89% | 0.15 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Paper | HVAC | New | unit (ton) | 138,307 | 0.8% | 0.24 | 15 | \$5,713 | 89% | 0.13 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Paper | HVAC | ROB | unit (ton) | 138,307 | 0.8% | 0.24 | 15 | \$5,713 | 89% | 0.13 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Paper | HVAC | Early | unit (ton) | 138,307 | 2.4% | 0.76 | 15 | \$12,067 | 89% | 0.19 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Paper | HVAC | New | unit (ton) | 138,307 | 0.9% | 0.28 | 15 | \$3,036 | 89% | 0.29 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Paper | HVAC | ROB | unit (ton) | 138,307 | 2.4% | 0.76 | 15 | \$2,165 | 89% | 1.00 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Paper | HVAC | Early | unit (ton) | 138,307 | 1.8% | 0.57 | 15 | \$11,945 | 89% | 0.15 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Paper | HVAC | New | unit (ton) | 138,307 | 0.7% | 0.21 | 15 | \$3,345 | 89% | 0.20 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Paper | HVAC | ROB | unit (ton) | 138,307 | 1.8% | 0.57 | 15 | \$2,650 | 89% | 0.64 |
| FE-Met Ed | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Paper | HVAC | Existing | building | 138,307 | 2.9% | 0.81 | 5 | \$1,467 | 55% | 0.63 |
| FE-Met Ed | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Paper | HVAC | New | building | 138,307 | 0.6% | 0.32 | 5 | \$880 | 51% | 0.30 |
| FE-Met Ed | Improved Controls - HVAC | Mfg: Paper | HVAC | Existing | end use | 138,307 | 21% | 4.15 | 10 | \$1,454 | 76% | 3.87 |
| FE-Met Ed | Improved Controls - HVAC | Mfg: Paper | HVAC | New | end use | 138,307 | 21% | 4.15 | 10 | \$1,454 | 76% | 3.87 |
| FE-Met Ed | Outside Air Economizer | Mfg: Paper | HVAC | Existing | building | 138,307 | 1.1% | 0.39 | 10 | \$508,167 | 82% | 0.00 |
| FE-Met Ed | Outside Air Economizer | Mfg: Paper | HVAC | New | building | 138,307 | 1.1% | 0.39 | 10 | \$508,167 | 82% | 0.00 |
| FE-Met Ed | Recommissioning | Mfg: Paper | HVAC | Existing | end use | 138,307 | 5.0% | 0.99 | 10 | \$190 | 88% | 4.78 |
| FE-Met Ed | Recommissioning | Mfg: Paper | HVAC | New | end use | 138,307 | 5.0% | 0.99 | 10 | \$190 | 88% | 4.78 |
| FE-Met Ed | Room AC (with louvered sides) | Mfg: Paper | HVAC | Early | unit (ton) | 138,307 | 7.7% | 2.40 | 9 | \$10,840 | 78% | 0.43 |
| FE-Met Ed | Room AC (with louvered sides) | Mfg: Paper | HVAC | New | unit (ton) | 138,307 | 2.6% | 0.80 | 9 | \$594 | 78% | 1.97 |
| FE-Met Ed | Room AC (with louvered sides) | Mfg: Paper | HVAC | ROB | unit (ton) | 138,307 | 2.6% | 0.80 | 9 | \$594 | 78% | 1.97 |
| FE-Met Ed | Variable Refrigerant Flow Heat Pump | Mfg: Paper | HVAC | New | measure | 138,307 | 0.1% | 0.04 | 13 | \$1,023 | 43% | 0.09 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---------------------------------------|------------|----------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Variable Refrigerant Flow Heat Pump | Mfg: Paper | HVAC | ROB | measure | 138,307 | 0.1% | 0.04 | 13 | \$1,023 | 43% | 0.09 |
| FE-Met Ed | VFD on Cooling Tower Fan | Mfg: Paper | HVAC | Early | motor | 138,307 | 21% | 8.70 | 15 | \$6,373 | 15% | 2.65 |
| FE-Met Ed | VFD on Cooling Tower Fan | Mfg: Paper | HVAC | New | motor | 138,307 | 22% | 8.70 | 15 | \$6,494 | 15% | 2.63 |
| FE-Met Ed | VFD on Cooling Tower Fan | Mfg: Paper | HVAC | ROB | motor | 138,307 | 22% | 8.70 | 15 | \$6,494 | 15% | 2.63 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Mfg: Paper | HVAC | Existing | building | 138,307 | 19% | 6.61 | 15 | \$98,387 | 26% | 0.19 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Mfg: Paper | HVAC | New | building | 138,307 | 0.6% | 0.21 | 15 | \$75,468 | 94% | 0.01 |
| FE-Met Ed | Water Source Heat Pump (4 ton) | Mfg: Paper | HVAC | Early | heat pump | 138,307 | 1.5% | 0.48 | 15 | \$23,620 | 28% | 0.06 |
| FE-Met Ed | Water Source Heat Pump (4 ton) | Mfg: Paper | HVAC | New | heat pump | 138,307 | 1.1% | 0.35 | 15 | \$11,512 | 28% | 0.09 |
| FE-Met Ed | Water Source Heat Pump (4 ton) | Mfg: Paper | HVAC | ROB | heat pump | 138,307 | 1.1% | 0.35 | 15 | \$11,512 | 28% | 0.09 |
| FE-Met Ed | Efficient Metal Halide (High Bay) | Mfg: Paper | Lighting | Early | end use | 140,464 | 42% | 0.00 | 9 | \$21,949 | 53% | 0.81 |
| FE-Met Ed | Efficient Metal Halide (High Bay) | Mfg: Paper | Lighting | New | end use | 140,464 | 41% | 0.00 | 13 | \$586,268 | 61% | 0.05 |
| FE-Met Ed | Efficient Metal Halide (High Bay) | Mfg: Paper | Lighting | ROB | end use | 140,464 | 41% | 0.00 | 13 | \$448,058 | 61% | 0.06 |
| FE-Met Ed | Induction (High Bay) | Mfg: Paper | Lighting | Early | end use | 140,464 | 94% | 0.00 | 13 | \$65,308 | 95% | 0.87 |
| FE-Met Ed | Induction (High Bay) | Mfg: Paper | Lighting | New | end use | 140,464 | 94% | 0.00 | 13 | \$61,145 | 95% | 0.92 |
| FE-Met Ed | Induction (High Bay) | Mfg: Paper | Lighting | ROB | end use | 140,464 | 94% | 0.00 | 13 | \$46,472 | 95% | 1.16 |
| FE-Met Ed | LED (High Bay) | Mfg: Paper | Lighting | Early | end use | 140,464 | 69% | 0.00 | 14 | \$76,877 | 95% | 0.60 |
| FE-Met Ed | LED (High Bay) | Mfg: Paper | Lighting | New | end use | 140,464 | 55% | 0.00 | 14 | \$85,332 | 95% | 0.44 |
| FE-Met Ed | LED (High Bay) | Mfg: Paper | Lighting | ROB | end use | 140,464 | 59% | 0.00 | 14 | \$56,224 | 95% | 0.69 |
| FE-Met Ed | Lighting Controls | Mfg: Paper | Lighting | Existing | end use | 140,464 | 20% | 0.00 | 6 | \$526,581 | 16% | 0.01 |
| FE-Met Ed | Lighting Controls | Mfg: Paper | Lighting | New | end use | 140,464 | 12% | 0.00 | 10 | \$700,525 | 11% | 0.01 |
| FE-Met Ed | Linear Fluorescent (High Bay) | Mfg: Paper | Lighting | Early | end use | 140,464 | 17% | 0.00 | 14 | \$16,072 | 98% | 0.69 |
| FE-Met Ed | Linear Fluorescent (High Bay) | Mfg: Paper | Lighting | New | end use | 140,464 | 13% | 0.00 | 14 | \$5,097 | 91% | 1.47 |
| FE-Met Ed | Linear Fluorescent (High Bay) | Mfg: Paper | Lighting | ROB | end use | 140,464 | 13% | 0.00 | 14 | \$3,263 | 91% | 2.12 |
| FE-Met Ed | Metal Halide (High Bay) | Mfg: Paper | Lighting | Early | end use | 140,464 | 62% | 0.00 | 13 | \$96,560 | 38% | 0.42 |
| FE-Met Ed | Metal Halide (High Bay) | Mfg: Paper | Lighting | New | end use | 140,464 | 73% | 0.00 | 13 | \$23,086 | 38% | 1.65 |
| FE-Met Ed | Metal Halide (High Bay) | Mfg: Paper | Lighting | ROB | end use | 140,464 | 73% | 0.00 | 13 | \$17,545 | 38% | 2.02 |
| FE-Met Ed | Screw Base CFL | Mfg: Paper | Lighting | Early | end use | 140,464 | 80% | 0.00 | 7 | \$38,161 | 17% | 0.70 |
| FE-Met Ed | Screw Base CFL | Mfg: Paper | Lighting | New | end use | 140,464 | 73% | 0.00 | 9 | \$31,187 | 18% | 0.95 |
| FE-Met Ed | Screw Base CFL | Mfg: Paper | Lighting | ROB | end use | 140,464 | 73% | 0.00 | 9 | \$26,103 | 17% | 1.10 |
| FE-Met Ed | Screw Base LED | Mfg: Paper | Lighting | Early | end use | 140,464 | 76% | 0.00 | 9 | \$23,420 | 21% | 1.28 |
| FE-Met Ed | Screw Base LED | Mfg: Paper | Lighting | New | end use | 140,464 | 77% | 0.00 | 9 | \$13,046 | 20% | 1.95 |
| FE-Met Ed | Screw Base LED | Mfg: Paper | Lighting | ROB | end use | 140,464 | 77% | 0.00 | 9 | \$10,357 | 21% | 2.25 |
| FE-Met Ed | T8 High Performance Linear Florescent | Mfg: Paper | Lighting | Early | end use | 140,464 | 36% | 0.00 | 14 | \$13,441 | 71% | 1.56 |
| FE-Met Ed | T8 High Performance Linear Florescent | Mfg: Paper | Lighting | New | end use | 140,464 | 26% | 0.00 | 14 | \$4,809 | 76% | 2.63 |
| FE-Met Ed | T8 High Performance Linear Florescent | Mfg: Paper | Lighting | ROB | end use | 140,464 | 26% | 0.00 | 14 | \$3,655 | 76% | 3.11 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Paper | Motors | Early | end use | 212,270 | 0.9% | 0.28 | 15 | \$3,243 | 81% | 0.36 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Paper | Motors | New | end use | 212,270 | 0.9% | 0.28 | 15 | \$3,243 | 81% | 0.36 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Paper | Motors | ROB | end use | 212,270 | 0.9% | 0.28 | 15 | \$3,243 | 81% | 0.36 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Paper | Motors | Early | end use | 212,270 | 0.7% | 0.23 | 15 | \$1,969 | 73% | 0.48 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Paper | Motors | New | end use | 212,270 | 0.7% | 0.23 | 15 | \$1,969 | 73% | 0.48 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Paper | Motors | ROB | end use | 212,270 | 0.7% | 0.23 | 15 | \$1,969 | 73% | 0.48 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Paper | Motors | Early | end use | 212,270 | 0.4% | 0.14 | 15 | \$755 | 81% | 0.73 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Paper | Motors | New | end use | 212,270 | 0.4% | 0.14 | 15 | \$755 | 81% | 0.73 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Paper | Motors | ROB | end use | 212,270 | 0.4% | 0.14 | 15 | \$755 | 81% | 0.73 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Paper | Motors | Early | end use | 212,270 | 0.4% | 0.12 | 15 | \$249 | 73% | 1.72 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Paper | Motors | New | end use | 212,270 | 0.4% | 0.12 | 15 | \$249 | 73% | 1.72 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Paper | Motors | ROB | end use | 212,270 | 0.4% | 0.12 | 15 | \$249 | 73% | 1.72 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Paper | Motors | Early | end use | 212,270 | 0.9% | 0.28 | 15 | \$373 | 47% | 2.43 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Paper | Motors | New | end use | 212,270 | 0.9% | 0.28 | 15 | \$373 | 47% | 2.43 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Paper | Motors | ROB | end use | 212,270 | 0.9% | 0.28 | 15 | \$373 | 47% | 2.43 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|--|------------|---------|----------|---------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Facility Energy Management | Mfg: Paper | Motors | Existing | end use | 212,270 | 1.9% | 0.56 | 2 | \$82 | 77% | 1.21 |
| FE-Met Ed | Facility Energy Management | Mfg: Paper | Motors | New | end use | 212,270 | 1.9% | 0.56 | 2 | \$82 | 77% | 1.21 |
| FE-Met Ed | HE Motors | Mfg: Paper | Motors | Early | end use | 212,270 | 2.0% | 0.62 | 15 | \$1,264 | 38% | 1.76 |
| FE-Met Ed | HE Motors | Mfg: Paper | Motors | New | end use | 212,270 | 2.0% | 0.62 | 15 | \$1,264 | 38% | 1.76 |
| FE-Met Ed | HE Motors | Mfg: Paper | Motors | ROB | end use | 212,270 | 2.0% | 0.62 | 15 | \$1,264 | 38% | 1.76 |
| FE-Met Ed | High-Efficiency Ventilation System | Mfg: Paper | Motors | Early | end use | 212,270 | 5.7% | 1.72 | 10 | \$13,265 | 73% | 0.39 |
| FE-Met Ed | High-Efficiency Ventilation System | Mfg: Paper | Motors | New | end use | 212,270 | 5.7% | 1.72 | 10 | \$13,265 | 73% | 0.39 |
| FE-Met Ed | High-Efficiency Ventilation System | Mfg: Paper | Motors | ROB | end use | 212,270 | 5.7% | 1.72 | 10 | \$13,265 | 73% | 0.39 |
| FE-Met Ed | Improved Controls - Motors | Mfg: Paper | Motors | Existing | end use | 212,270 | 4.0% | 1.20 | 10 | \$923 | 73% | 2.51 |
| FE-Met Ed | Improved Controls - Motors | Mfg: Paper | Motors | New | end use | 212,270 | 4.0% | 1.20 | 10 | \$923 | 73% | 2.51 |
| FE-Met Ed | Material Handling | Mfg: Paper | Motors | Early | end use | 212,270 | 18% | 5.58 | 10 | \$10,261 | 77% | 1.36 |
| FE-Met Ed | Material Handling | Mfg: Paper | Motors | New | end use | 212,270 | 18% | 5.58 | 10 | \$10,261 | 77% | 1.36 |
| FE-Met Ed | Material Handling | Mfg: Paper | Motors | ROB | end use | 212,270 | 18% | 5.58 | 10 | \$10,261 | 77% | 1.36 |
| FE-Met Ed | Material Handling VFD | Mfg: Paper | Motors | Early | end use | 212,270 | 16% | 4.89 | 10 | \$7,097 | 77% | 1.63 |
| FE-Met Ed | Material Handling VFD | Mfg: Paper | Motors | New | end use | 212,270 | 16% | 4.89 | 10 | \$7,097 | 77% | 1.63 |
| FE-Met Ed | Material Handling VFD | Mfg: Paper | Motors | ROB | end use | 212,270 | 16% | 4.89 | 10 | \$7,097 | 77% | 1.63 |
| FE-Met Ed | Motor Management Plan | Mfg: Paper | Motors | Existing | end use | 212,270 | 2.9% | 0.88 | 10 | \$433 | 73% | 3.22 |
| FE-Met Ed | Motor Management Plan | Mfg: Paper | Motors | New | end use | 212,270 | 2.9% | 0.88 | 10 | \$433 | 73% | 3.22 |
| FE-Met Ed | Motors Other | Mfg: Paper | Motors | Existing | end use | 212,270 | 1.1% | 0.33 | 15 | \$42 | 83% | 7.20 |
| FE-Met Ed | Motors Other | Mfg: Paper | Motors | New | end use | 212,270 | 1.1% | 0.33 | 15 | \$42 | 83% | 7.20 |
| FE-Met Ed | Motors: Rewind 101-200 HP | Mfg: Paper | Motors | Existing | end use | 212,270 | 0.6% | 0.17 | 10 | \$268 | 27% | 1.52 |
| FE-Met Ed | Motors: Rewind 101-200 HP | Mfg: Paper | Motors | New | end use | 212,270 | 0.6% | 0.17 | 10 | \$268 | 27% | 1.54 |
| FE-Met Ed | Motors: Rewind 201-500 HP | Mfg: Paper | Motors | Existing | end use | 212,270 | 0.6% | 0.17 | 8 | \$169 | 27% | 1.77 |
| FE-Met Ed | Motors: Rewind 201-500 HP | Mfg: Paper | Motors | New | end use | 212,270 | 0.6% | 0.17 | 8 | \$169 | 27% | 1.78 |
| FE-Met Ed | Motors: Rewind 20-50 HP | Mfg: Paper | Motors | Existing | end use | 212,270 | 1.0% | 0.31 | 11 | \$788 | 42% | 1.15 |
| FE-Met Ed | Motors: Rewind 20-50 HP | Mfg: Paper | Motors | New | end use | 212,270 | 1.0% | 0.31 | 11 | \$788 | 42% | 1.16 |
| FE-Met Ed | Motors: Rewind 500+ HP | Mfg: Paper | Motors | Existing | end use | 212,270 | 0.6% | 0.17 | 8 | \$120 | 11% | 2.22 |
| FE-Met Ed | Motors: Rewind 500+ HP | Mfg: Paper | Motors | New | end use | 212,270 | 0.6% | 0.17 | 8 | \$120 | 11% | 2.23 |
| FE-Met Ed | Motors: Rewind 51-100 HP | Mfg: Paper | Motors | Existing | end use | 212,270 | 0.6% | 0.18 | 9 | \$389 | 42% | 1.13 |
| FE-Met Ed | Motors: Rewind 51-100 HP | Mfg: Paper | Motors | New | end use | 212,270 | 0.6% | 0.18 | 9 | \$389 | 42% | 1.12 |
| FE-Met Ed | Paper: Large Material Handling | Mfg: Paper | Motors | Early | end use | 212,270 | 9.7% | 2.95 | 10 | \$15,901 | 64% | 0.54 |
| FE-Met Ed | Paper: Large Material Handling | Mfg: Paper | Motors | New | end use | 212,270 | 9.7% | 2.95 | 10 | \$15,901 | 64% | 0.54 |
| FE-Met Ed | Paper: Large Material Handling | Mfg: Paper | Motors | ROB | end use | 212,270 | 9.7% | 2.95 | 10 | \$15,901 | 64% | 0.54 |
| FE-Met Ed | Paper: Material Handling | Mfg: Paper | Motors | Early | end use | 212,270 | 13% | 3.98 | 10 | \$17,889 | 64% | 0.64 |
| FE-Met Ed | Paper: Material Handling | Mfg: Paper | Motors | New | end use | 212,270 | 13% | 3.98 | 10 | \$17,889 | 64% | 0.64 |
| FE-Met Ed | Paper: Material Handling | Mfg: Paper | Motors | ROB | end use | 212,270 | 13% | 3.98 | 10 | \$17,889 | 64% | 0.64 |
| FE-Met Ed | Paper: Premium Control Large Material | Mfg: Paper | Motors | Existing | end use | 212,270 | 19% | 5.68 | 10 | \$17,491 | 69% | 0.89 |
| FE-Met Ed | Paper: Premium Control Large Material | Mfg: Paper | Motors | New | end use | 212,270 | 19% | 5.68 | 10 | \$17,491 | 69% | 0.89 |
| FE-Met Ed | Switch from Belt drive to Direct Drive | Mfg: Paper | Motors | Early | end use | 212,270 | 7.5% | 2.28 | 12 | \$3,406 | 30% | 1.84 |
| FE-Met Ed | Switch from Belt drive to Direct Drive | Mfg: Paper | Motors | New | end use | 212,270 | 7.5% | 2.28 | 12 | \$3,406 | 30% | 1.84 |
| FE-Met Ed | Switch from Belt drive to Direct Drive | Mfg: Paper | Motors | ROB | end use | 212,270 | 7.5% | 2.28 | 12 | \$3,406 | 30% | 1.84 |
| FE-Met Ed | Synchronous Belts | Mfg: Paper | Motors | Early | end use | 212,270 | 1.2% | 0.35 | 10 | \$313 | 30% | 2.30 |
| FE-Met Ed | Synchronous Belts | Mfg: Paper | Motors | New | end use | 212,270 | 1.2% | 0.35 | 10 | \$313 | 30% | 2.30 |
| FE-Met Ed | Synchronous Belts | Mfg: Paper | Motors | ROB | end use | 212,270 | 1.2% | 0.35 | 10 | \$313 | 30% | 2.30 |
| FE-Met Ed | Bldg Improvements | Mfg: Paper | Other | Existing | end use | 39,036 | 16% | 0.75 | 15 | \$851 | 72% | 3.03 |
| FE-Met Ed | Bldg Improvements | Mfg: Paper | Other | New | end use | 39,036 | 16% | 0.75 | 15 | \$851 | 72% | 3.03 |
| FE-Met Ed | Energy Project Management | Mfg: Paper | Other | Existing | end use | 39,036 | 29% | 1.35 | 11 | \$1,393 | 63% | 2.45 |
| FE-Met Ed | Energy Project Management | Mfg: Paper | Other | New | end use | 39,036 | 29% | 1.35 | 11 | \$1,393 | 63% | 2.45 |
| FE-Met Ed | Facility Energy Management | Mfg: Paper | Other | Existing | end use | 39,036 | 1.8% | 0.09 | 2 | \$15 | 76% | 1.17 |
| FE-Met Ed | Facility Energy Management | Mfg: Paper | Other | New | end use | 39,036 | 1.9% | 0.09 | 2 | \$15 | 76% | 1.18 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|-------------------------------------|------------|------------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Integrated Plant Energy Management | Mfg: Paper | Other | Existing | end use | 39,036 | 50% | 2.32 | 11 | \$3,848 | 48% | 1.77 |
| FE-Met Ed | Integrated Plant Energy Management | Mfg: Paper | Other | New | end use | 39,036 | 50% | 2.32 | 11 | \$3,848 | 48% | 1.77 |
| FE-Met Ed | Plant Energy Management | Mfg: Paper | Other | Existing | end use | 39,036 | 12% | 0.56 | 10 | \$98 | 55% | 4.84 |
| FE-Met Ed | Plant Energy Management | Mfg: Paper | Other | New | end use | 39,036 | 12% | 0.56 | 10 | \$98 | 55% | 4.84 |
| FE-Met Ed | Transformers | Mfg: Paper | Other | Early | end use | 39,036 | 1.6% | 0.07 | 15 | \$125 | 34% | 2.27 |
| FE-Met Ed | Transformers | Mfg: Paper | Other | New | end use | 39,036 | 1.6% | 0.07 | 15 | \$125 | 34% | 2.27 |
| FE-Met Ed | Transformers | Mfg: Paper | Other | ROB | end use | 39,036 | 1.6% | 0.07 | 15 | \$125 | 34% | 2.27 |
| FE-Met Ed | Air Compressor Demand Reduction | Mfg: Paper | Process Air Compressor | Existing | end use | 6,397 | 26% | 0.21 | 10 | \$96 | 40% | 3.47 |
| FE-Met Ed | Air Compressor Demand Reduction | Mfg: Paper | Process Air Compressor | New | end use | 6,397 | 26% | 0.21 | 10 | \$96 | 40% | 3.47 |
| FE-Met Ed | Air Compressor Equipment | Mfg: Paper | Process Air Compressor | Early | end use | 6,397 | 39% | 0.32 | 10 | \$116 | 56% | 3.81 |
| FE-Met Ed | Air Compressor Equipment | Mfg: Paper | Process Air Compressor | New | end use | 6,397 | 39% | 0.32 | 10 | \$116 | 56% | 3.81 |
| FE-Met Ed | Air Compressor Equipment | Mfg: Paper | Process Air Compressor | ROB | end use | 6,397 | 39% | 0.32 | 10 | \$116 | 56% | 3.81 |
| FE-Met Ed | Air Compressor Optimization | Mfg: Paper | Process Air Compressor | Existing | end use | 6,397 | 39% | 0.33 | 10 | \$279 | 42% | 2.47 |
| FE-Met Ed | Air Compressor Optimization | Mfg: Paper | Process Air Compressor | New | end use | 6,397 | 39% | 0.33 | 10 | \$279 | 42% | 2.47 |
| FE-Met Ed | Facility Energy Management | Mfg: Paper | Process Air Compressor | Existing | end use | 6,397 | 1.9% | 0.02 | 2 | \$2.5 | 50% | 1.19 |
| FE-Met Ed | Facility Energy Management | Mfg: Paper | Process Air Compressor | New | end use | 6,397 | 1.9% | 0.02 | 2 | \$2.5 | 50% | 1.19 |
| FE-Met Ed | HE Compressor motors | Mfg: Paper | Process Air Compressor | Early | end use | 6,397 | 1.1% | 0.01 | 15 | \$24 | 56% | 1.52 |
| FE-Met Ed | HE Compressor motors | Mfg: Paper | Process Air Compressor | New | end use | 6,397 | 1.1% | 0.01 | 15 | \$24 | 56% | 1.52 |
| FE-Met Ed | HE Compressor motors | Mfg: Paper | Process Air Compressor | ROB | end use | 6,397 | 1.1% | 0.01 | 15 | \$24 | 56% | 1.52 |
| FE-Met Ed | Improved Controls - Air Compressor | Mfg: Paper | Process Air Compressor | Existing | end use | 6,397 | 41% | 0.34 | 10 | \$114 | 19% | 3.91 |
| FE-Met Ed | Improved Controls - Air Compressor | Mfg: Paper | Process Air Compressor | New | end use | 6,397 | 41% | 0.34 | 10 | \$114 | 19% | 3.91 |
| FE-Met Ed | Low Pressure-drop Filters | Mfg: Paper | Process Air Compressor | Existing | end use | 6,397 | 1.9% | 0.02 | 10 | \$73 | 46% | 0.65 |
| FE-Met Ed | Low Pressure-drop Filters | Mfg: Paper | Process Air Compressor | New | end use | 6,397 | 1.9% | 0.02 | 10 | \$73 | 46% | 0.65 |
| FE-Met Ed | Outside Air Intake | Mfg: Paper | Process Air Compressor | Existing | end use | 6,397 | 1.4% | 0.01 | 10 | \$42 | 37% | 0.85 |
| FE-Met Ed | Outside Air Intake | Mfg: Paper | Process Air Compressor | New | end use | 6,397 | 1.4% | 0.01 | 10 | \$42 | 37% | 0.85 |
| FE-Met Ed | Receiver Capacity Addition | Mfg: Paper | Process Air Compressor | Existing | end use | 6,397 | 5.9% | 0.05 | 10 | \$119 | 28% | 1.17 |
| FE-Met Ed | Receiver Capacity Addition | Mfg: Paper | Process Air Compressor | New | end use | 6,397 | 5.9% | 0.05 | 10 | \$119 | 28% | 1.17 |
| FE-Met Ed | Refrigerated Cycling Dryers | Mfg: Paper | Process Air Compressor | Early | end use | 6,397 | 1.7% | 0.01 | 10 | \$15 | 16% | 2.14 |
| FE-Met Ed | Refrigerated Cycling Dryers | Mfg: Paper | Process Air Compressor | New | end use | 6,397 | 1.7% | 0.01 | 10 | \$15 | 16% | 2.14 |
| FE-Met Ed | Refrigerated Cycling Dryers | Mfg: Paper | Process Air Compressor | ROB | end use | 6,397 | 1.7% | 0.01 | 10 | \$15 | 16% | 2.14 |
| FE-Met Ed | VFD Controlled Compressor | Mfg: Paper | Process Air Compressor | Early | end use | 6,397 | 24% | 0.20 | 10 | \$630 | 22% | 0.92 |
| FE-Met Ed | VFD Controlled Compressor | Mfg: Paper | Process Air Compressor | New | end use | 6,397 | 24% | 0.20 | 10 | \$630 | 22% | 0.92 |
| FE-Met Ed | VFD Controlled Compressor | Mfg: Paper | Process Air Compressor | ROB | end use | 6,397 | 24% | 0.20 | 10 | \$630 | 22% | 0.92 |
| FE-Met Ed | Zero Loss Condensate Drain | Mfg: Paper | Process Air Compressor | Early | end use | 6,397 | 1.8% | 0.02 | 10 | \$37 | 28% | 1.16 |
| FE-Met Ed | Zero Loss Condensate Drain | Mfg: Paper | Process Air Compressor | New | end use | 6,397 | 1.8% | 0.02 | 10 | \$37 | 28% | 1.16 |
| FE-Met Ed | Zero Loss Condensate Drain | Mfg: Paper | Process Air Compressor | ROB | end use | 6,397 | 1.8% | 0.02 | 10 | \$37 | 28% | 1.16 |
| FE-Met Ed | Cooling Tower Optimization | Mfg: Paper | Process Cooling | Existing | building | 24,001 | 20% | 1.72 | 10 | \$147 | 23% | 5.47 |
| FE-Met Ed | Equipment: Chillers | Mfg: Paper | Process Cooling | Early | end use | 24,001 | 18% | 0.89 | 15 | \$1,126 | 46% | 2.01 |
| FE-Met Ed | Equipment: Chillers | Mfg: Paper | Process Cooling | New | end use | 24,001 | 18% | 0.89 | 15 | \$1,126 | 46% | 2.02 |
| FE-Met Ed | Equipment: Chillers | Mfg: Paper | Process Cooling | ROB | end use | 24,001 | 18% | 0.89 | 15 | \$1,126 | 46% | 2.01 |
| FE-Met Ed | Facility Energy Management | Mfg: Paper | Process Cooling | Existing | end use | 24,001 | 1.9% | 0.09 | 2 | \$9.2 | 59% | 1.27 |
| FE-Met Ed | Facility Energy Management | Mfg: Paper | Process Cooling | New | end use | 24,001 | 1.9% | 0.09 | 2 | \$9.2 | 59% | 1.27 |
| FE-Met Ed | Improved Controls - Process Cooling | Mfg: Paper | Process Cooling | Existing | end use | 24,001 | 6.0% | 0.30 | 10 | \$1,267 | 56% | 0.50 |
| FE-Met Ed | Improved Controls - Process Cooling | Mfg: Paper | Process Cooling | New | end use | 24,001 | 6.0% | 0.30 | 10 | \$1,267 | 56% | 0.50 |
| FE-Met Ed | VFD on Cooling Tower Fan | Mfg: Paper | Process Cooling | Early | motor | 24,001 | 21% | 1.51 | 15 | \$1,106 | 24% | 2.54 |
| FE-Met Ed | VFD on Cooling Tower Fan | Mfg: Paper | Process Cooling | New | motor | 24,001 | 22% | 1.51 | 15 | \$1,127 | 24% | 2.53 |
| FE-Met Ed | VFD on Cooling Tower Fan | Mfg: Paper | Process Cooling | ROB | motor | 24,001 | 22% | 1.51 | 15 | \$1,127 | 24% | 2.53 |
| FE-Met Ed | Improved Controls - Process Heating | Mfg: Paper | Process Heating | Existing | end use | 101,174 | 17% | 2.38 | 10 | \$1,162 | 77% | 3.24 |
| FE-Met Ed | Improved Controls - Process Heating | Mfg: Paper | Process Heating | New | end use | 101,174 | 17% | 2.38 | 10 | \$1,162 | 77% | 3.24 |
| FE-Met Ed | Process Heat O&M | Mfg: Paper | Process Heating | Existing | end use | 101,174 | 16% | 2.25 | 2 | \$703 | 77% | 0.95 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---------------------------------------|---------------|-----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Process Heat O&M | Mfg: Paper | Process Heating | New | end use | 101,174 | 16% | 2.25 | 2 | \$703 | 77% | 0.95 |
| FE-Met Ed | Facility Energy Management | Mfg: Paper | Process Other | Existing | end use | 50,754 | 1.9% | 0.13 | 2 | \$20 | 73% | 1.19 |
| FE-Met Ed | Facility Energy Management | Mfg: Paper | Process Other | New | end use | 50,754 | 1.9% | 0.13 | 2 | \$20 | 73% | 1.19 |
| FE-Met Ed | Kraft: Efficient Agitator | Mfg: Paper | Process Other | Early | end use | 50,754 | 50% | 3.56 | 10 | \$2,127 | 22% | 2.93 |
| FE-Met Ed | Kraft: Efficient Agitator | Mfg: Paper | Process Other | New | end use | 50,754 | 50% | 3.56 | 10 | \$2,127 | 22% | 2.93 |
| FE-Met Ed | Kraft: Efficient Agitator | Mfg: Paper | Process Other | ROB | end use | 50,754 | 50% | 3.56 | 10 | \$2,127 | 22% | 2.93 |
| FE-Met Ed | Kraft: Effluent Treatment System | Mfg: Paper | Process Other | Early | end use | 50,754 | 15% | 1.07 | 10 | \$565 | 22% | 3.13 |
| FE-Met Ed | Kraft: Effluent Treatment System | Mfg: Paper | Process Other | New | end use | 50,754 | 15% | 1.07 | 10 | \$565 | 22% | 3.13 |
| FE-Met Ed | Kraft: Effluent Treatment System | Mfg: Paper | Process Other | ROB | end use | 50,754 | 15% | 1.07 | 10 | \$565 | 22% | 3.13 |
| FE-Met Ed | Mech Pulp: Premium Process | Mfg: Paper | Process Other | Early | end use | 50,754 | 0.2% | 0.01 | 5 | \$9.7 | 31% | 1.37 |
| FE-Met Ed | Mech Pulp: Premium Process | Mfg: Paper | Process Other | New | end use | 50,754 | 0.2% | 0.01 | 5 | \$9.7 | 31% | 1.37 |
| FE-Met Ed | Mech Pulp: Premium Process | Mfg: Paper | Process Other | ROB | end use | 50,754 | 0.2% | 0.01 | 5 | \$9.7 | 31% | 1.37 |
| FE-Met Ed | Mech Pulp: Refiner Plate Improvement | Mfg: Paper | Process Other | Early | end use | 50,754 | 0.4% | 0.03 | 1 | \$8.1 | 31% | 0.57 |
| FE-Met Ed | Mech Pulp: Refiner Plate Improvement | Mfg: Paper | Process Other | New | end use | 50,754 | 0.4% | 0.03 | 1 | \$8.1 | 31% | 0.57 |
| FE-Met Ed | Mech Pulp: Refiner Plate Improvement | Mfg: Paper | Process Other | ROB | end use | 50,754 | 0.4% | 0.03 | 1 | \$8.1 | 31% | 0.57 |
| FE-Met Ed | Mech Pulp: Refiner Replacement | Mfg: Paper | Process Other | Early | end use | 50,754 | 10.0% | 0.71 | 12 | \$2,994 | 31% | 0.79 |
| FE-Met Ed | Mech Pulp: Refiner Replacement | Mfg: Paper | Process Other | New | end use | 50,754 | 10.0% | 0.71 | 12 | \$2,994 | 31% | 0.79 |
| FE-Met Ed | Mech Pulp: Refiner Replacement | Mfg: Paper | Process Other | ROB | end use | 50,754 | 10.0% | 0.71 | 12 | \$2,994 | 31% | 0.79 |
| FE-Met Ed | Paper: Efficient Pulp Screen | Mfg: Paper | Process Other | Early | end use | 50,754 | 15% | 1.07 | 10 | \$1,378 | 31% | 1.80 |
| FE-Met Ed | Paper: Efficient Pulp Screen | Mfg: Paper | Process Other | New | end use | 50,754 | 15% | 1.07 | 10 | \$1,378 | 31% | 1.80 |
| FE-Met Ed | Paper: Efficient Pulp Screen | Mfg: Paper | Process Other | ROB | end use | 50,754 | 15% | 1.07 | 10 | \$1,378 | 31% | 1.80 |
| FE-Met Ed | Adjustable speed drive on compressors | Mfg: Paper | Process Refrigeration | Early | end use | 12,329 | 12% | 0.21 | 10 | \$228 | 30% | 1.99 |
| FE-Met Ed | Adjustable speed drive on compressors | Mfg: Paper | Process Refrigeration | New | end use | 12,329 | 12% | 0.21 | 10 | \$228 | 30% | 1.99 |
| FE-Met Ed | Adjustable speed drive on compressors | Mfg: Paper | Process Refrigeration | ROB | end use | 12,329 | 12% | 0.21 | 10 | \$228 | 30% | 1.99 |
| FE-Met Ed | Cooling Tower Optimization | Mfg: Paper | Process Refrigeration | Existing | building | 12,329 | 20% | 0.88 | 10 | \$76 | 23% | 5.47 |
| FE-Met Ed | Optimization of operating parameters | Mfg: Paper | Process Refrigeration | Existing | end use | 12,329 | 13% | 0.24 | 3 | \$100 | 27% | 1.20 |
| FE-Met Ed | Optimization of operating parameters | Mfg: Paper | Process Refrigeration | New | end use | 12,329 | 13% | 0.24 | 3 | \$100 | 27% | 1.20 |
| FE-Met Ed | Synchronous Belts | Mfg: Paper | Process Refrigeration | Early | end use | 12,329 | 1.2% | 0.02 | 10 | \$18 | 30% | 2.31 |
| FE-Met Ed | Synchronous Belts | Mfg: Paper | Process Refrigeration | New | end use | 12,329 | 1.2% | 0.02 | 10 | \$18 | 30% | 2.31 |
| FE-Met Ed | Synchronous Belts | Mfg: Paper | Process Refrigeration | ROB | end use | 12,329 | 1.2% | 0.02 | 10 | \$18 | 30% | 2.31 |
| FE-Met Ed | VFD on Cooling Tower Fan | Mfg: Paper | Process Refrigeration | Early | motor | 12,329 | 21% | 0.78 | 15 | \$568 | 24% | 2.54 |
| FE-Met Ed | VFD on Cooling Tower Fan | Mfg: Paper | Process Refrigeration | New | motor | 12,329 | 22% | 0.78 | 15 | \$579 | 24% | 2.53 |
| FE-Met Ed | VFD on Cooling Tower Fan | Mfg: Paper | Process Refrigeration | ROB | motor | 12,329 | 22% | 0.78 | 15 | \$579 | 24% | 2.53 |
| FE-Met Ed | Facility Energy Management | Mfg: Paper | Pumps | Existing | end use | 1,189,888 | 1.9% | 2.85 | 2 | \$459 | 69% | 1.22 |
| FE-Met Ed | Facility Energy Management | Mfg: Paper | Pumps | New | end use | 1,189,888 | 1.9% | 2.85 | 2 | \$459 | 69% | 1.22 |
| FE-Met Ed | HE Motors | Mfg: Paper | Pumps | Early | end use | 1,189,888 | 2.0% | 3.17 | 15 | \$7,083 | 73% | 1.74 |
| FE-Met Ed | HE Motors | Mfg: Paper | Pumps | New | end use | 1,189,888 | 2.0% | 3.17 | 15 | \$7,083 | 73% | 1.74 |
| FE-Met Ed | HE Motors | Mfg: Paper | Pumps | ROB | end use | 1,189,888 | 2.0% | 3.17 | 15 | \$7,083 | 73% | 1.74 |
| FE-Met Ed | Motor rewinds | Mfg: Paper | Pumps | Existing | end use | 1,189,888 | 0.6% | 0.92 | 9 | \$1,692 | 11% | 1.37 |
| FE-Met Ed | Motor rewinds | Mfg: Paper | Pumps | New | end use | 1,189,888 | 0.6% | 0.92 | 9 | \$1,692 | 11% | 1.36 |
| FE-Met Ed | Pump Equipment Upgrade | Mfg: Paper | Pumps | Early | end use | 1,189,888 | 20% | 30.96 | 12 | \$29,747 | 81% | 2.64 |
| FE-Met Ed | Pump Equipment Upgrade | Mfg: Paper | Pumps | New | end use | 1,189,888 | 20% | 30.96 | 12 | \$29,747 | 81% | 2.64 |
| FE-Met Ed | Pump Equipment Upgrade | Mfg: Paper | Pumps | ROB | end use | 1,189,888 | 20% | 30.96 | 12 | \$29,747 | 81% | 2.64 |
| FE-Met Ed | Pump System Optimization | Mfg: Paper | Pumps | Existing | end use | 1,189,888 | 8.7% | 13.46 | 12 | \$21,786 | 38% | 1.88 |
| FE-Met Ed | Pump System Optimization | Mfg: Paper | Pumps | New | end use | 1,189,888 | 8.7% | 13.46 | 12 | \$21,786 | 38% | 1.88 |
| FE-Met Ed | Synchronous Belts | Mfg: Paper | Pumps | Early | end use | 1,189,888 | 1.2% | 1.80 | 10 | \$1,753 | 61% | 2.27 |
| FE-Met Ed | Synchronous Belts | Mfg: Paper | Pumps | New | end use | 1,189,888 | 1.2% | 1.80 | 10 | \$1,753 | 61% | 2.27 |
| FE-Met Ed | Synchronous Belts | Mfg: Paper | Pumps | ROB | end use | 1,189,888 | 1.2% | 1.80 | 10 | \$1,753 | 61% | 2.27 |
| FE-Met Ed | Circulating Fans | Mfg: Plastics | Fans | Early | end use | 583,500 | 5.0% | 3.47 | 10 | \$3,552 | 68% | 2.35 |
| FE-Met Ed | Circulating Fans | Mfg: Plastics | Fans | New | end use | 583,500 | 5.0% | 3.47 | 10 | \$3,552 | 68% | 2.35 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|--|---------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Circulating Fans | Mfg: Plastics | Fans | ROB | end use | 583,500 | 5.0% | 3.47 | 10 | \$3,552 | 68% | 2.35 |
| FE-Met Ed | Facility Energy Management | Mfg: Plastics | Fans | Existing | end use | 583,500 | 1.9% | 1.28 | 2 | \$225 | 77% | 1.21 |
| FE-Met Ed | Facility Energy Management | Mfg: Plastics | Fans | New | end use | 583,500 | 1.9% | 1.28 | 2 | \$225 | 77% | 1.20 |
| FE-Met Ed | HE Motors | Mfg: Plastics | Fans | Early | end use | 583,500 | 2.0% | 1.42 | 15 | \$3,474 | 77% | 1.77 |
| FE-Met Ed | HE Motors | Mfg: Plastics | Fans | New | end use | 583,500 | 2.0% | 1.42 | 15 | \$3,474 | 77% | 1.77 |
| FE-Met Ed | HE Motors | Mfg: Plastics | Fans | ROB | end use | 583,500 | 2.0% | 1.42 | 15 | \$3,474 | 77% | 1.77 |
| FE-Met Ed | Improved Controls - Fans | Mfg: Plastics | Fans | Existing | end use | 583,500 | 7.1% | 4.93 | 10 | \$2,262 | 88% | 3.62 |
| FE-Met Ed | Improved Controls - Fans | Mfg: Plastics | Fans | New | end use | 583,500 | 7.1% | 4.93 | 10 | \$2,262 | 88% | 3.62 |
| FE-Met Ed | Properly Sized Fans | Mfg: Plastics | Fans | Early | end use | 583,500 | 13% | 9.14 | 10 | \$11,951 | 41% | 2.00 |
| FE-Met Ed | Properly Sized Fans | Mfg: Plastics | Fans | New | end use | 583,500 | 13% | 9.14 | 10 | \$11,951 | 41% | 2.00 |
| FE-Met Ed | Properly Sized Fans | Mfg: Plastics | Fans | ROB | end use | 583,500 | 13% | 9.14 | 10 | \$11,951 | 41% | 2.00 |
| FE-Met Ed | Synchronous Belts | Mfg: Plastics | Fans | Early | end use | 583,500 | 1.2% | 0.81 | 10 | \$860 | 41% | 2.30 |
| FE-Met Ed | Synchronous Belts | Mfg: Plastics | Fans | New | end use | 583,500 | 1.2% | 0.81 | 10 | \$860 | 41% | 2.30 |
| FE-Met Ed | Synchronous Belts | Mfg: Plastics | Fans | ROB | end use | 583,500 | 1.2% | 0.81 | 10 | \$860 | 41% | 2.30 |
| FE-Met Ed | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Plastics | HVAC | Early | unit (ton) | 347,469 | 9.2% | 8.27 | 15 | \$63,296 | 28% | 0.36 |
| FE-Met Ed | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Plastics | HVAC | New | unit (ton) | 347,469 | 4.1% | 3.71 | 15 | \$15,335 | 28% | 0.64 |
| FE-Met Ed | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Plastics | HVAC | ROB | unit (ton) | 347,469 | 4.1% | 3.71 | 15 | \$15,335 | 28% | 0.64 |
| FE-Met Ed | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Plastics | HVAC | Early | unit (ton) | 347,469 | 12% | 11.18 | 15 | \$74,619 | 28% | 0.41 |
| FE-Met Ed | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Plastics | HVAC | New | unit (ton) | 347,469 | 7.7% | 6.93 | 15 | \$32,299 | 28% | 0.57 |
| FE-Met Ed | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Plastics | HVAC | ROB | unit (ton) | 347,469 | 7.7% | 6.93 | 15 | \$32,299 | 28% | 0.57 |
| FE-Met Ed | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Plastics | HVAC | Early | unit (ton) | 347,469 | 15% | 13.73 | 15 | \$85,942 | 29% | 0.43 |
| FE-Met Ed | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Plastics | HVAC | New | unit (ton) | 347,469 | 11% | 9.75 | 15 | \$49,263 | 29% | 0.53 |
| FE-Met Ed | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Plastics | HVAC | ROB | unit (ton) | 347,469 | 11% | 9.75 | 15 | \$49,263 | 29% | 0.53 |
| FE-Met Ed | >760k min 10.2 EER Air Conditioner | Mfg: Plastics | HVAC | Early | unit (ton) | 347,469 | 2.1% | 1.91 | 15 | \$110,225 | 35% | 0.05 |
| FE-Met Ed | >760k min 10.2 EER Air Conditioner | Mfg: Plastics | HVAC | New | unit (ton) | 347,469 | 2.8% | 2.55 | 15 | \$9,962 | 35% | 0.68 |
| FE-Met Ed | >760k min 10.2 EER Air Conditioner | Mfg: Plastics | HVAC | ROB | unit (ton) | 347,469 | 2.8% | 2.55 | 15 | \$9,962 | 35% | 0.68 |
| FE-Met Ed | 135-240k min 12 EER Air Conditioner | Mfg: Plastics | HVAC | Early | unit (ton) | 347,469 | 10% | 9.43 | 15 | \$119,357 | 35% | 0.22 |
| FE-Met Ed | 135-240k min 12 EER Air Conditioner | Mfg: Plastics | HVAC | New | unit (ton) | 347,469 | 5.8% | 5.20 | 15 | \$14,093 | 35% | 0.95 |
| FE-Met Ed | 135-240k min 12 EER Air Conditioner | Mfg: Plastics | HVAC | ROB | unit (ton) | 347,469 | 5.8% | 5.20 | 15 | \$14,093 | 35% | 0.95 |
| FE-Met Ed | 240k-760k min 11 EER Air Conditioner | Mfg: Plastics | HVAC | Early | unit (ton) | 347,469 | 5.2% | 4.70 | 15 | \$110,294 | 35% | 0.12 |
| FE-Met Ed | 240k-760k min 11 EER Air Conditioner | Mfg: Plastics | HVAC | New | unit (ton) | 347,469 | 5.3% | 4.81 | 15 | \$11,816 | 35% | 1.04 |
| FE-Met Ed | 240k-760k min 11 EER Air Conditioner | Mfg: Plastics | HVAC | ROB | unit (ton) | 347,469 | 5.3% | 4.81 | 15 | \$11,816 | 35% | 1.04 |
| FE-Met Ed | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Plastics | HVAC | Early | unit (ton) | 347,469 | 9.7% | 8.74 | 15 | \$122,211 | 35% | 0.20 |
| FE-Met Ed | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Plastics | HVAC | New | unit (ton) | 347,469 | 3.8% | 3.47 | 15 | \$17,436 | 35% | 0.53 |
| FE-Met Ed | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Plastics | HVAC | ROB | unit (ton) | 347,469 | 3.8% | 3.47 | 15 | \$17,436 | 35% | 0.53 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Mfg: Plastics | HVAC | Existing | building | 347,469 | 5.9% | 5.16 | 15 | \$1,052,776 | 71% | 0.01 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Mfg: Plastics | HVAC | New | building | 347,469 | 3.7% | 3.24 | 15 | \$1,000,693 | 94% | 0.01 |
| FE-Met Ed | Chiller Tuneup/Diagnostics | Mfg: Plastics | HVAC | Existing | building | 347,469 | 8.0% | 10.19 | 10 | \$887,244 | 59% | 0.02 |
| FE-Met Ed | Chiller Tuneup/Diagnostics | Mfg: Plastics | HVAC | New | building | 347,469 | 8.0% | 10.21 | 10 | \$887,244 | 59% | 0.02 |
| FE-Met Ed | Cooling Tower Optimization | Mfg: Plastics | HVAC | Existing | building | 347,469 | 20% | 24.87 | 10 | \$2,131 | 14% | 5.42 |
| FE-Met Ed | Duct Insulation, Add R8 | Mfg: Plastics | HVAC | Existing | building | 347,469 | 1.5% | 1.11 | 15 | \$2,760 | 18% | 1.20 |
| FE-Met Ed | Duct Insulation, Add R8 | Mfg: Plastics | HVAC | New | building | 347,469 | 1.5% | 1.11 | 15 | \$2,760 | 9% | 1.20 |
| FE-Met Ed | Ductless Heat Pump | Mfg: Plastics | HVAC | Early | heat pump | 347,469 | 0.8% | 0.65 | 15 | \$27,597 | 83% | 0.07 |
| FE-Met Ed | Ductless Heat Pump | Mfg: Plastics | HVAC | New | heat pump | 347,469 | 0.4% | 0.34 | 15 | \$8,014 | 83% | 0.13 |
| FE-Met Ed | Ductless Heat Pump | Mfg: Plastics | HVAC | ROB | heat pump | 347,469 | 0.4% | 0.34 | 15 | \$8,014 | 83% | 0.13 |
| FE-Met Ed | DX Coil Cleaning | Mfg: Plastics | HVAC | Existing | building | 347,469 | 13% | 15.94 | 1 | \$3,330 | 73% | 0.52 |
| FE-Met Ed | DX Coil Cleaning | Mfg: Plastics | HVAC | New | building | 347,469 | 13% | 15.94 | 1 | \$3,330 | 73% | 0.52 |
| FE-Met Ed | Efficient Unit Heating System | Mfg: Plastics | HVAC | Early | heater | 347,469 | 6.9% | 0.20 | 15 | \$18,717 | 83% | 0.63 |
| FE-Met Ed | Efficient Unit Heating System | Mfg: Plastics | HVAC | New | heater | 347,469 | 4.0% | 0.11 | 15 | \$12,767 | 83% | 0.53 |
| FE-Met Ed | Efficient Unit Heating System | Mfg: Plastics | HVAC | ROB | heater | 347,469 | 4.0% | 0.11 | 15 | \$12,767 | 83% | 0.53 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|---------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Ground Source Heat Pump (Closed Loop) | Mfg: Plastics | HVAC | Early | heat pump | 347,469 | 1.3% | 1.01 | 15 | \$57,303 | 19% | 0.05 |
| FE-Met Ed | Ground Source Heat Pump (Closed Loop) | Mfg: Plastics | HVAC | New | heat pump | 347,469 | 1.0% | 0.80 | 15 | \$22,625 | 19% | 0.11 |
| FE-Met Ed | Ground Source Heat Pump (Closed Loop) | Mfg: Plastics | HVAC | ROB | heat pump | 347,469 | 1.0% | 0.80 | 15 | \$22,625 | 19% | 0.11 |
| FE-Met Ed | Ground Source Heat Pump (Open Loop) | Mfg: Plastics | HVAC | Early | heat pump | 347,469 | 1.3% | 1.01 | 15 | \$36,700 | 19% | 0.08 |
| FE-Met Ed | Ground Source Heat Pump (Open Loop) | Mfg: Plastics | HVAC | New | heat pump | 347,469 | 1.0% | 0.80 | 15 | \$778 | 19% | 2.35 |
| FE-Met Ed | Ground Source Heat Pump (Open Loop) | Mfg: Plastics | HVAC | ROB | heat pump | 347,469 | 1.0% | 0.80 | 15 | \$778 | 19% | 2.35 |
| FE-Met Ed | HE Air Cooled Chiller, 100 Tons | Mfg: Plastics | HVAC | Early | unit (ton) | 347,469 | 1.5% | 1.15 | 15 | \$408,504 | 89% | 0.01 |
| FE-Met Ed | HE Air Cooled Chiller, 100 Tons | Mfg: Plastics | HVAC | New | unit (ton) | 347,469 | 0.4% | 0.33 | 15 | \$59,512 | 89% | 0.02 |
| FE-Met Ed | HE Air Cooled Chiller, 100 Tons | Mfg: Plastics | HVAC | ROB | unit (ton) | 347,469 | 0.4% | 0.33 | 15 | \$59,512 | 89% | 0.02 |
| FE-Met Ed | HE Air Cooled Chiller, 150 Tons | Mfg: Plastics | HVAC | Early | unit (ton) | 347,469 | 1.5% | 1.14 | 15 | \$352,856 | 89% | 0.01 |
| FE-Met Ed | HE Air Cooled Chiller, 150 Tons | Mfg: Plastics | HVAC | New | unit (ton) | 347,469 | 0.3% | 0.24 | 15 | \$29,226 | 89% | 0.03 |
| FE-Met Ed | HE Air Cooled Chiller, 150 Tons | Mfg: Plastics | HVAC | ROB | unit (ton) | 347,469 | 0.3% | 0.24 | 15 | \$29,226 | 89% | 0.03 |
| FE-Met Ed | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Plastics | HVAC | Early | heat pump | 347,469 | 1.4% | 1.07 | 12 | \$14,959 | 81% | 0.17 |
| FE-Met Ed | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Plastics | HVAC | Early | heat pump | 347,469 | 1.1% | 0.88 | 12 | \$10,929 | 81% | 0.20 |
| FE-Met Ed | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Plastics | HVAC | New | heat pump | 347,469 | 1.0% | 0.80 | 12 | \$6,678 | 81% | 0.29 |
| FE-Met Ed | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Plastics | HVAC | New | heat pump | 347,469 | 0.8% | 0.59 | 12 | \$2,334 | 81% | 0.59 |
| FE-Met Ed | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Plastics | HVAC | ROB | heat pump | 347,469 | 1.0% | 0.80 | 12 | \$6,678 | 81% | 0.29 |
| FE-Met Ed | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Plastics | HVAC | ROB | heat pump | 347,469 | 0.8% | 0.59 | 12 | \$2,334 | 81% | 0.59 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Plastics | HVAC | Early | unit (ton) | 347,469 | 1.6% | 1.26 | 15 | \$32,412 | 89% | 0.12 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Plastics | HVAC | New | unit (ton) | 347,469 | 0.9% | 0.72 | 15 | \$10,780 | 89% | 0.21 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Plastics | HVAC | ROB | unit (ton) | 347,469 | 0.9% | 0.72 | 15 | \$10,780 | 89% | 0.21 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Plastics | HVAC | Early | unit (ton) | 347,469 | 1.4% | 1.11 | 15 | \$31,655 | 89% | 0.11 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Plastics | HVAC | New | unit (ton) | 347,469 | 1.0% | 0.78 | 15 | \$6,182 | 89% | 0.38 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Plastics | HVAC | ROB | unit (ton) | 347,469 | 1.4% | 1.11 | 15 | \$5,679 | 89% | 0.58 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Plastics | HVAC | Early | unit (ton) | 347,469 | 1.4% | 1.10 | 15 | \$37,466 | 89% | 0.09 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Plastics | HVAC | New | unit (ton) | 347,469 | 0.9% | 0.70 | 15 | \$15,774 | 89% | 0.14 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Plastics | HVAC | ROB | unit (ton) | 347,469 | 1.4% | 1.10 | 15 | \$14,277 | 89% | 0.24 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Plastics | HVAC | Early | unit (ton) | 347,469 | 1.4% | 1.10 | 15 | \$36,090 | 89% | 0.10 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Plastics | HVAC | New | unit (ton) | 347,469 | 0.9% | 0.70 | 15 | \$13,712 | 89% | 0.16 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Plastics | HVAC | ROB | unit (ton) | 347,469 | 1.4% | 1.10 | 15 | \$12,410 | 89% | 0.27 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Plastics | HVAC | Early | unit (ton) | 347,469 | 1.8% | 1.42 | 15 | \$38,888 | 89% | 0.11 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Plastics | HVAC | New | unit (ton) | 347,469 | 0.6% | 0.43 | 15 | \$24,080 | 89% | 0.06 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Plastics | HVAC | ROB | unit (ton) | 347,469 | 1.8% | 1.42 | 15 | \$18,698 | 89% | 0.24 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Plastics | HVAC | Early | unit (ton) | 347,469 | 2.2% | 1.69 | 15 | \$35,768 | 89% | 0.15 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Plastics | HVAC | New | unit (ton) | 347,469 | 0.8% | 0.61 | 15 | \$14,353 | 89% | 0.13 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Plastics | HVAC | ROB | unit (ton) | 347,469 | 0.8% | 0.61 | 15 | \$14,353 | 89% | 0.13 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Plastics | HVAC | Early | unit (ton) | 347,469 | 2.4% | 1.90 | 15 | \$30,315 | 89% | 0.19 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Plastics | HVAC | New | unit (ton) | 347,469 | 0.9% | 0.71 | 15 | \$7,628 | 89% | 0.29 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Plastics | HVAC | ROB | unit (ton) | 347,469 | 2.4% | 1.90 | 15 | \$5,439 | 89% | 1.00 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Plastics | HVAC | Early | unit (ton) | 347,469 | 1.8% | 1.44 | 15 | \$30,010 | 89% | 0.15 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Plastics | HVAC | New | unit (ton) | 347,469 | 0.7% | 0.54 | 15 | \$8,403 | 89% | 0.20 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Plastics | HVAC | ROB | unit (ton) | 347,469 | 1.8% | 1.44 | 15 | \$6,658 | 89% | 0.64 |
| FE-Met Ed | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Plastics | HVAC | Existing | building | 347,469 | 2.9% | 2.04 | 5 | \$3,686 | 55% | 0.63 |
| FE-Met Ed | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Plastics | HVAC | New | building | 347,469 | 0.6% | 0.81 | 5 | \$2,212 | 51% | 0.30 |
| FE-Met Ed | Improved Controls - HVAC | Mfg: Plastics | HVAC | Existing | end use | 347,469 | 21% | 10.42 | 10 | \$3,653 | 76% | 3.87 |
| FE-Met Ed | Improved Controls - HVAC | Mfg: Plastics | HVAC | New | end use | 347,469 | 21% | 10.42 | 10 | \$3,653 | 76% | 3.87 |
| FE-Met Ed | Outside Air Economizer | Mfg: Plastics | HVAC | Existing | building | 347,469 | 1.1% | 0.97 | 10 | \$1,276,666 | 82% | 0.00 |
| FE-Met Ed | Outside Air Economizer | Mfg: Plastics | HVAC | New | building | 347,469 | 1.1% | 0.97 | 10 | \$1,276,666 | 82% | 0.00 |
| FE-Met Ed | Recommissioning | Mfg: Plastics | HVAC | Existing | end use | 347,469 | 5.0% | 2.49 | 10 | \$476 | 88% | 4.78 |
| FE-Met Ed | Recommissioning | Mfg: Plastics | HVAC | New | end use | 347,469 | 5.0% | 2.49 | 10 | \$476 | 88% | 4.78 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---------------------------------------|---------------|----------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Room AC (with louvered sides) | Mfg: Plastics | HVAC | Early | unit (ton) | 347,469 | 7.7% | 6.03 | 9 | \$27,234 | 78% | 0.43 |
| FE-Met Ed | Room AC (with louvered sides) | Mfg: Plastics | HVAC | New | unit (ton) | 347,469 | 2.6% | 2.01 | 9 | \$1,491 | 78% | 1.97 |
| FE-Met Ed | Room AC (with louvered sides) | Mfg: Plastics | HVAC | ROB | unit (ton) | 347,469 | 2.6% | 2.01 | 9 | \$1,491 | 78% | 1.97 |
| FE-Met Ed | Variable Refrigerant Flow Heat Pump | Mfg: Plastics | HVAC | New | measure | 347,469 | 0.1% | 0.09 | 13 | \$2,570 | 43% | 0.09 |
| FE-Met Ed | Variable Refrigerant Flow Heat Pump | Mfg: Plastics | HVAC | ROB | measure | 347,469 | 0.1% | 0.09 | 13 | \$2,570 | 43% | 0.09 |
| FE-Met Ed | VFD on Cooling Tower Fan | Mfg: Plastics | HVAC | Early | motor | 347,469 | 21% | 21.86 | 15 | \$16,010 | 15% | 2.65 |
| FE-Met Ed | VFD on Cooling Tower Fan | Mfg: Plastics | HVAC | New | motor | 347,469 | 22% | 21.86 | 15 | \$16,315 | 15% | 2.63 |
| FE-Met Ed | VFD on Cooling Tower Fan | Mfg: Plastics | HVAC | ROB | motor | 347,469 | 22% | 21.87 | 15 | \$16,315 | 15% | 2.63 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Mfg: Plastics | HVAC | Existing | building | 347,469 | 19% | 16.61 | 15 | \$247,177 | 26% | 0.19 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Mfg: Plastics | HVAC | New | building | 347,469 | 0.6% | 0.53 | 15 | \$189,597 | 94% | 0.01 |
| FE-Met Ed | Water Source Heat Pump (4 ton) | Mfg: Plastics | HVAC | Early | heat pump | 347,469 | 1.5% | 1.21 | 15 | \$59,340 | 28% | 0.06 |
| FE-Met Ed | Water Source Heat Pump (4 ton) | Mfg: Plastics | HVAC | New | heat pump | 347,469 | 1.1% | 0.88 | 15 | \$28,921 | 28% | 0.09 |
| FE-Met Ed | Water Source Heat Pump (4 ton) | Mfg: Plastics | HVAC | ROB | heat pump | 347,469 | 1.1% | 0.88 | 15 | \$28,921 | 28% | 0.09 |
| FE-Met Ed | Efficient Metal Halide (High Bay) | Mfg: Plastics | Lighting | Early | end use | 292,695 | 42% | 0.00 | 9 | \$45,737 | 53% | 0.81 |
| FE-Met Ed | Efficient Metal Halide (High Bay) | Mfg: Plastics | Lighting | New | end use | 292,695 | 41% | 0.00 | 13 | \$1,221,651 | 61% | 0.05 |
| FE-Met Ed | Efficient Metal Halide (High Bay) | Mfg: Plastics | Lighting | ROB | end use | 292,695 | 41% | 0.00 | 13 | \$933,654 | 61% | 0.06 |
| FE-Met Ed | Induction (High Bay) | Mfg: Plastics | Lighting | Early | end use | 292,695 | 94% | 0.00 | 13 | \$136,088 | 95% | 0.87 |
| FE-Met Ed | Induction (High Bay) | Mfg: Plastics | Lighting | New | end use | 292,695 | 94% | 0.00 | 13 | \$127,412 | 95% | 0.92 |
| FE-Met Ed | Induction (High Bay) | Mfg: Plastics | Lighting | ROB | end use | 292,695 | 94% | 0.00 | 13 | \$96,837 | 95% | 1.16 |
| FE-Met Ed | LED (High Bay) | Mfg: Plastics | Lighting | Early | end use | 292,695 | 69% | 0.00 | 14 | \$160,195 | 95% | 0.60 |
| FE-Met Ed | LED (High Bay) | Mfg: Plastics | Lighting | New | end use | 292,695 | 55% | 0.00 | 14 | \$177,812 | 95% | 0.44 |
| FE-Met Ed | LED (High Bay) | Mfg: Plastics | Lighting | ROB | end use | 292,695 | 59% | 0.00 | 14 | \$117,157 | 95% | 0.69 |
| FE-Met Ed | Lighting Controls | Mfg: Plastics | Lighting | Existing | end use | 292,695 | 20% | 0.00 | 6 | \$1,097,278 | 16% | 0.01 |
| FE-Met Ed | Lighting Controls | Mfg: Plastics | Lighting | New | end use | 292,695 | 12% | 0.00 | 10 | \$1,459,738 | 11% | 0.01 |
| FE-Met Ed | Linear Fluorescent (High Bay) | Mfg: Plastics | Lighting | Early | end use | 292,695 | 17% | 0.00 | 14 | \$33,491 | 98% | 0.69 |
| FE-Met Ed | Linear Fluorescent (High Bay) | Mfg: Plastics | Lighting | New | end use | 292,695 | 13% | 0.00 | 14 | \$10,621 | 91% | 1.47 |
| FE-Met Ed | Linear Fluorescent (High Bay) | Mfg: Plastics | Lighting | ROB | end use | 292,695 | 13% | 0.00 | 14 | \$6,800 | 91% | 2.12 |
| FE-Met Ed | Metal Halide (High Bay) | Mfg: Plastics | Lighting | Early | end use | 292,695 | 62% | 0.00 | 13 | \$201,209 | 38% | 0.42 |
| FE-Met Ed | Metal Halide (High Bay) | Mfg: Plastics | Lighting | New | end use | 292,695 | 73% | 0.00 | 13 | \$48,106 | 38% | 1.65 |
| FE-Met Ed | Metal Halide (High Bay) | Mfg: Plastics | Lighting | ROB | end use | 292,695 | 73% | 0.00 | 13 | \$36,561 | 38% | 2.02 |
| FE-Met Ed | Screw Base CFL | Mfg: Plastics | Lighting | Early | end use | 292,695 | 80% | 0.00 | 7 | \$79,519 | 17% | 0.70 |
| FE-Met Ed | Screw Base CFL | Mfg: Plastics | Lighting | New | end use | 292,695 | 73% | 0.00 | 9 | \$64,986 | 18% | 0.95 |
| FE-Met Ed | Screw Base CFL | Mfg: Plastics | Lighting | ROB | end use | 292,695 | 73% | 0.00 | 9 | \$54,393 | 17% | 1.10 |
| FE-Met Ed | Screw Base LED | Mfg: Plastics | Lighting | Early | end use | 292,695 | 76% | 0.00 | 9 | \$48,801 | 21% | 1.28 |
| FE-Met Ed | Screw Base LED | Mfg: Plastics | Lighting | New | end use | 292,695 | 77% | 0.00 | 9 | \$27,186 | 20% | 1.95 |
| FE-Met Ed | Screw Base LED | Mfg: Plastics | Lighting | ROB | end use | 292,695 | 77% | 0.00 | 9 | \$21,581 | 21% | 2.25 |
| FE-Met Ed | T8 High Performance Linear Florescent | Mfg: Plastics | Lighting | Early | end use | 292,695 | 36% | 0.00 | 14 | \$28,009 | 71% | 1.56 |
| FE-Met Ed | T8 High Performance Linear Florescent | Mfg: Plastics | Lighting | New | end use | 292,695 | 26% | 0.00 | 14 | \$10,021 | 76% | 2.63 |
| FE-Met Ed | T8 High Performance Linear Florescent | Mfg: Plastics | Lighting | ROB | end use | 292,695 | 26% | 0.00 | 14 | \$7,616 | 76% | 3.11 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Plastics | Motors | Early | end use | 184,220 | 0.9% | 0.24 | 15 | \$2,814 | 81% | 0.36 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Plastics | Motors | New | end use | 184,220 | 0.9% | 0.24 | 15 | \$2,814 | 81% | 0.36 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Plastics | Motors | ROB | end use | 184,220 | 0.9% | 0.24 | 15 | \$2,814 | 81% | 0.36 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Plastics | Motors | Early | end use | 184,220 | 0.7% | 0.20 | 15 | \$1,709 | 73% | 0.48 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Plastics | Motors | New | end use | 184,220 | 0.7% | 0.20 | 15 | \$1,709 | 73% | 0.48 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Plastics | Motors | ROB | end use | 184,220 | 0.7% | 0.20 | 15 | \$1,709 | 73% | 0.48 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Plastics | Motors | Early | end use | 184,220 | 0.4% | 0.12 | 15 | \$655 | 81% | 0.73 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Plastics | Motors | New | end use | 184,220 | 0.4% | 0.12 | 15 | \$655 | 81% | 0.73 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Plastics | Motors | ROB | end use | 184,220 | 0.4% | 0.12 | 15 | \$655 | 81% | 0.73 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Plastics | Motors | Early | end use | 184,220 | 0.4% | 0.10 | 15 | \$216 | 73% | 1.72 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Plastics | Motors | New | end use | 184,220 | 0.4% | 0.10 | 15 | \$216 | 73% | 1.72 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|--|---------------|------------------------|----------|---------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Plastics | Motors | ROB | end use | 184,220 | 0.4% | 0.10 | 15 | \$216 | 73% | 1.72 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Plastics | Motors | Early | end use | 184,220 | 0.9% | 0.24 | 15 | \$324 | 47% | 2.43 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Plastics | Motors | New | end use | 184,220 | 0.9% | 0.24 | 15 | \$324 | 47% | 2.43 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Plastics | Motors | ROB | end use | 184,220 | 0.9% | 0.24 | 15 | \$324 | 47% | 2.43 |
| FE-Met Ed | Facility Energy Management | Mfg: Plastics | Motors | Existing | end use | 184,220 | 1.9% | 0.48 | 2 | \$71 | 77% | 1.21 |
| FE-Met Ed | Facility Energy Management | Mfg: Plastics | Motors | New | end use | 184,220 | 1.8% | 0.48 | 2 | \$71 | 77% | 1.20 |
| FE-Met Ed | HE Motors | Mfg: Plastics | Motors | Early | end use | 184,220 | 2.0% | 0.54 | 15 | \$1,097 | 38% | 1.76 |
| FE-Met Ed | HE Motors | Mfg: Plastics | Motors | New | end use | 184,220 | 2.0% | 0.54 | 15 | \$1,097 | 38% | 1.76 |
| FE-Met Ed | HE Motors | Mfg: Plastics | Motors | ROB | end use | 184,220 | 2.0% | 0.54 | 15 | \$1,097 | 38% | 1.76 |
| FE-Met Ed | High-Efficiency Ventilation System | Mfg: Plastics | Motors | Early | end use | 184,220 | 5.7% | 1.49 | 10 | \$11,512 | 73% | 0.39 |
| FE-Met Ed | High-Efficiency Ventilation System | Mfg: Plastics | Motors | New | end use | 184,220 | 5.7% | 1.49 | 10 | \$11,512 | 73% | 0.39 |
| FE-Met Ed | High-Efficiency Ventilation System | Mfg: Plastics | Motors | ROB | end use | 184,220 | 5.7% | 1.49 | 10 | \$11,512 | 73% | 0.39 |
| FE-Met Ed | Improved Controls - Motors | Mfg: Plastics | Motors | Existing | end use | 184,220 | 4.0% | 1.04 | 10 | \$801 | 73% | 2.51 |
| FE-Met Ed | Improved Controls - Motors | Mfg: Plastics | Motors | New | end use | 184,220 | 4.0% | 1.04 | 10 | \$801 | 73% | 2.51 |
| FE-Met Ed | Motor Management Plan | Mfg: Plastics | Motors | Existing | end use | 184,220 | 2.9% | 0.76 | 10 | \$376 | 73% | 3.22 |
| FE-Met Ed | Motor Management Plan | Mfg: Plastics | Motors | New | end use | 184,220 | 2.9% | 0.76 | 10 | \$376 | 73% | 3.22 |
| FE-Met Ed | Motors Other | Mfg: Plastics | Motors | Existing | end use | 184,220 | 1.1% | 0.29 | 15 | \$37 | 83% | 7.20 |
| FE-Met Ed | Motors Other | Mfg: Plastics | Motors | New | end use | 184,220 | 1.1% | 0.29 | 15 | \$37 | 83% | 7.20 |
| FE-Met Ed | Motors: Rewind 101-200 HP | Mfg: Plastics | Motors | Existing | end use | 184,220 | 0.6% | 0.15 | 10 | \$233 | 27% | 1.54 |
| FE-Met Ed | Motors: Rewind 101-200 HP | Mfg: Plastics | Motors | New | end use | 184,220 | 0.6% | 0.15 | 10 | \$233 | 27% | 1.52 |
| FE-Met Ed | Motors: Rewind 201-500 HP | Mfg: Plastics | Motors | Existing | end use | 184,220 | 0.6% | 0.14 | 8 | \$146 | 27% | 1.79 |
| FE-Met Ed | Motors: Rewind 201-500 HP | Mfg: Plastics | Motors | New | end use | 184,220 | 0.6% | 0.14 | 8 | \$146 | 27% | 1.78 |
| FE-Met Ed | Motors: Rewind 20-50 HP | Mfg: Plastics | Motors | Existing | end use | 184,220 | 1.0% | 0.27 | 11 | \$684 | 42% | 1.16 |
| FE-Met Ed | Motors: Rewind 20-50 HP | Mfg: Plastics | Motors | New | end use | 184,220 | 1.0% | 0.27 | 11 | \$684 | 42% | 1.16 |
| FE-Met Ed | Motors: Rewind 500+ HP | Mfg: Plastics | Motors | Existing | end use | 184,220 | 0.6% | 0.15 | 8 | \$104 | 11% | 2.21 |
| FE-Met Ed | Motors: Rewind 500+ HP | Mfg: Plastics | Motors | New | end use | 184,220 | 0.6% | 0.15 | 8 | \$104 | 11% | 2.21 |
| FE-Met Ed | Motors: Rewind 51-100 HP | Mfg: Plastics | Motors | Existing | end use | 184,220 | 0.6% | 0.16 | 9 | \$338 | 42% | 1.12 |
| FE-Met Ed | Motors: Rewind 51-100 HP | Mfg: Plastics | Motors | New | end use | 184,220 | 0.6% | 0.16 | 9 | \$338 | 42% | 1.11 |
| FE-Met Ed | Switch from Belt drive to Direct Drive | Mfg: Plastics | Motors | Early | end use | 184,220 | 7.5% | 1.97 | 12 | \$2,956 | 30% | 1.84 |
| FE-Met Ed | Switch from Belt drive to Direct Drive | Mfg: Plastics | Motors | New | end use | 184,220 | 7.5% | 1.97 | 12 | \$2,956 | 30% | 1.84 |
| FE-Met Ed | Switch from Belt drive to Direct Drive | Mfg: Plastics | Motors | ROB | end use | 184,220 | 7.5% | 1.97 | 12 | \$2,956 | 30% | 1.84 |
| FE-Met Ed | Synchronous Belts | Mfg: Plastics | Motors | Early | end use | 184,220 | 1.2% | 0.31 | 10 | \$271 | 30% | 2.30 |
| FE-Met Ed | Synchronous Belts | Mfg: Plastics | Motors | New | end use | 184,220 | 1.2% | 0.31 | 10 | \$271 | 30% | 2.30 |
| FE-Met Ed | Synchronous Belts | Mfg: Plastics | Motors | ROB | end use | 184,220 | 1.2% | 0.31 | 10 | \$271 | 30% | 2.30 |
| FE-Met Ed | Bldg Improvements | Mfg: Plastics | Other | Existing | end use | 90,384 | 16% | 1.74 | 15 | \$1,971 | 72% | 3.03 |
| FE-Met Ed | Bldg Improvements | Mfg: Plastics | Other | New | end use | 90,384 | 16% | 1.74 | 15 | \$1,971 | 72% | 3.03 |
| FE-Met Ed | Energy Project Management | Mfg: Plastics | Other | Existing | end use | 90,384 | 29% | 3.12 | 11 | \$3,226 | 63% | 2.45 |
| FE-Met Ed | Energy Project Management | Mfg: Plastics | Other | New | end use | 90,384 | 29% | 3.12 | 11 | \$3,226 | 63% | 2.45 |
| FE-Met Ed | Facility Energy Management | Mfg: Plastics | Other | Existing | end use | 90,384 | 1.9% | 0.20 | 2 | \$35 | 76% | 1.18 |
| FE-Met Ed | Facility Energy Management | Mfg: Plastics | Other | New | end use | 90,384 | 1.9% | 0.20 | 2 | \$35 | 76% | 1.17 |
| FE-Met Ed | Integrated Plant Energy Management | Mfg: Plastics | Other | Existing | end use | 90,384 | 50% | 5.38 | 11 | \$8,909 | 48% | 1.77 |
| FE-Met Ed | Integrated Plant Energy Management | Mfg: Plastics | Other | New | end use | 90,384 | 50% | 5.38 | 11 | \$8,909 | 48% | 1.78 |
| FE-Met Ed | Plant Energy Management | Mfg: Plastics | Other | Existing | end use | 90,384 | 12% | 1.29 | 10 | \$227 | 55% | 4.84 |
| FE-Met Ed | Plant Energy Management | Mfg: Plastics | Other | New | end use | 90,384 | 12% | 1.29 | 10 | \$227 | 55% | 4.84 |
| FE-Met Ed | Transformers | Mfg: Plastics | Other | Early | end use | 90,384 | 1.6% | 0.17 | 15 | \$289 | 34% | 2.27 |
| FE-Met Ed | Transformers | Mfg: Plastics | Other | New | end use | 90,384 | 1.6% | 0.17 | 15 | \$289 | 34% | 2.27 |
| FE-Met Ed | Transformers | Mfg: Plastics | Other | ROB | end use | 90,384 | 1.6% | 0.17 | 15 | \$289 | 34% | 2.27 |
| FE-Met Ed | Air Compressor Demand Reduction | Mfg: Plastics | Process Air Compressor | Existing | end use | 6,066 | 26% | 0.20 | 10 | \$91 | 40% | 3.47 |
| FE-Met Ed | Air Compressor Demand Reduction | Mfg: Plastics | Process Air Compressor | New | end use | 6,066 | 26% | 0.20 | 10 | \$91 | 40% | 3.47 |
| FE-Met Ed | Facility Energy Management | Mfg: Plastics | Process Air Compressor | Existing | end use | 6,066 | 1.9% | 0.01 | 2 | \$2.3 | 50% | 1.19 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---------------------------------------|---------------|------------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Facility Energy Management | Mfg: Plastics | Process Air Compressor | New | end use | 6,066 | 1.9% | 0.01 | 2 | \$2.3 | 50% | 1.19 |
| FE-Met Ed | HE Compressor motors | Mfg: Plastics | Process Air Compressor | Early | end use | 6,066 | 1.1% | 0.01 | 15 | \$23 | 56% | 1.52 |
| FE-Met Ed | HE Compressor motors | Mfg: Plastics | Process Air Compressor | New | end use | 6,066 | 1.1% | 0.01 | 15 | \$23 | 56% | 1.52 |
| FE-Met Ed | HE Compressor motors | Mfg: Plastics | Process Air Compressor | ROB | end use | 6,066 | 1.1% | 0.01 | 15 | \$23 | 56% | 1.52 |
| FE-Met Ed | Improved Controls - Air Compressor | Mfg: Plastics | Process Air Compressor | Existing | end use | 6,066 | 41% | 0.32 | 10 | \$108 | 19% | 3.91 |
| FE-Met Ed | Improved Controls - Air Compressor | Mfg: Plastics | Process Air Compressor | New | end use | 6,066 | 41% | 0.32 | 10 | \$108 | 19% | 3.91 |
| FE-Met Ed | Low Pressure-drop Filters | Mfg: Plastics | Process Air Compressor | Existing | end use | 6,066 | 1.8% | 0.01 | 10 | \$69 | 46% | 0.65 |
| FE-Met Ed | Low Pressure-drop Filters | Mfg: Plastics | Process Air Compressor | New | end use | 6,066 | 1.8% | 0.01 | 10 | \$69 | 46% | 0.65 |
| FE-Met Ed | Outside Air Intake | Mfg: Plastics | Process Air Compressor | Existing | end use | 6,066 | 1.4% | 0.01 | 10 | \$40 | 37% | 0.85 |
| FE-Met Ed | Outside Air Intake | Mfg: Plastics | Process Air Compressor | New | end use | 6,066 | 1.4% | 0.01 | 10 | \$40 | 37% | 0.84 |
| FE-Met Ed | Receiver Capacity Addition | Mfg: Plastics | Process Air Compressor | Existing | end use | 6,066 | 5.9% | 0.05 | 10 | \$113 | 28% | 1.17 |
| FE-Met Ed | Receiver Capacity Addition | Mfg: Plastics | Process Air Compressor | New | end use | 6,066 | 6.0% | 0.05 | 10 | \$113 | 28% | 1.17 |
| FE-Met Ed | Refrigerated Cycling Dryers | Mfg: Plastics | Process Air Compressor | Early | end use | 6,066 | 1.7% | 0.01 | 10 | \$14 | 16% | 2.14 |
| FE-Met Ed | Refrigerated Cycling Dryers | Mfg: Plastics | Process Air Compressor | New | end use | 6,066 | 1.7% | 0.01 | 10 | \$14 | 16% | 2.14 |
| FE-Met Ed | Refrigerated Cycling Dryers | Mfg: Plastics | Process Air Compressor | ROB | end use | 6,066 | 1.7% | 0.01 | 10 | \$14 | 16% | 2.14 |
| FE-Met Ed | VFD Controlled Compressor | Mfg: Plastics | Process Air Compressor | Early | end use | 6,066 | 24% | 0.19 | 10 | \$597 | 22% | 0.92 |
| FE-Met Ed | VFD Controlled Compressor | Mfg: Plastics | Process Air Compressor | New | end use | 6,066 | 24% | 0.19 | 10 | \$597 | 22% | 0.92 |
| FE-Met Ed | VFD Controlled Compressor | Mfg: Plastics | Process Air Compressor | ROB | end use | 6,066 | 24% | 0.19 | 10 | \$597 | 22% | 0.92 |
| FE-Met Ed | Zero Loss Condensate Drain | Mfg: Plastics | Process Air Compressor | Early | end use | 6,066 | 1.8% | 0.01 | 10 | \$35 | 28% | 1.16 |
| FE-Met Ed | Zero Loss Condensate Drain | Mfg: Plastics | Process Air Compressor | New | end use | 6,066 | 1.8% | 0.01 | 10 | \$35 | 28% | 1.16 |
| FE-Met Ed | Zero Loss Condensate Drain | Mfg: Plastics | Process Air Compressor | ROB | end use | 6,066 | 1.8% | 0.01 | 10 | \$35 | 28% | 1.16 |
| FE-Met Ed | Clean Room: Change Filter Strategy | Mfg: Plastics | Process Cooling | Existing | end use | 235,507 | 40% | 19.64 | 1 | \$611 | 17% | 0.83 |
| FE-Met Ed | Clean Room: Change Filter Strategy | Mfg: Plastics | Process Cooling | New | end use | 235,507 | 40% | 19.64 | 1 | \$611 | 17% | 0.83 |
| FE-Met Ed | Clean Room: Chiller Optimize | Mfg: Plastics | Process Cooling | Existing | end use | 235,507 | 15% | 7.28 | 10 | \$2,843 | 27% | 3.16 |
| FE-Met Ed | Clean Room: Chiller Optimize | Mfg: Plastics | Process Cooling | New | end use | 235,507 | 15% | 7.28 | 10 | \$2,843 | 27% | 3.16 |
| FE-Met Ed | Clean Room: Clean Room HVAC | Mfg: Plastics | Process Cooling | Existing | end use | 235,507 | 9.0% | 4.42 | 15 | \$3,432 | 40% | 2.89 |
| FE-Met Ed | Clean Room: Clean Room HVAC | Mfg: Plastics | Process Cooling | New | end use | 235,507 | 9.0% | 4.42 | 15 | \$3,432 | 40% | 2.89 |
| FE-Met Ed | Cooling Tower Optimization | Mfg: Plastics | Process Cooling | Existing | building | 235,507 | 20% | 16.86 | 10 | \$1,444 | 23% | 5.47 |
| FE-Met Ed | Equipment: Chillers | Mfg: Plastics | Process Cooling | Early | end use | 235,507 | 18% | 8.78 | 15 | \$11,053 | 50% | 2.01 |
| FE-Met Ed | Equipment: Chillers | Mfg: Plastics | Process Cooling | New | end use | 235,507 | 18% | 8.78 | 15 | \$11,053 | 50% | 2.02 |
| FE-Met Ed | Equipment: Chillers | Mfg: Plastics | Process Cooling | ROB | end use | 235,507 | 18% | 8.78 | 15 | \$11,053 | 50% | 2.02 |
| FE-Met Ed | Facility Energy Management | Mfg: Plastics | Process Cooling | Existing | end use | 235,507 | 1.9% | 0.90 | 2 | \$91 | 63% | 1.27 |
| FE-Met Ed | Facility Energy Management | Mfg: Plastics | Process Cooling | New | end use | 235,507 | 1.9% | 0.90 | 2 | \$91 | 63% | 1.27 |
| FE-Met Ed | Improved Controls - Process Cooling | Mfg: Plastics | Process Cooling | Existing | end use | 235,507 | 6.0% | 2.95 | 10 | \$12,435 | 60% | 0.50 |
| FE-Met Ed | Improved Controls - Process Cooling | Mfg: Plastics | Process Cooling | New | end use | 235,507 | 6.0% | 2.95 | 10 | \$12,435 | 60% | 0.50 |
| FE-Met Ed | VFD on Cooling Tower Fan | Mfg: Plastics | Process Cooling | Early | motor | 235,507 | 21% | 14.82 | 15 | \$10,850 | 24% | 2.54 |
| FE-Met Ed | VFD on Cooling Tower Fan | Mfg: Plastics | Process Cooling | New | motor | 235,507 | 22% | 14.82 | 15 | \$11,058 | 24% | 2.53 |
| FE-Met Ed | VFD on Cooling Tower Fan | Mfg: Plastics | Process Cooling | ROB | motor | 235,507 | 22% | 14.82 | 15 | \$11,058 | 24% | 2.53 |
| FE-Met Ed | Improved Controls - Process Heating | Mfg: Plastics | Process Heating | Existing | end use | 539,166 | 17% | 12.67 | 10 | \$6,195 | 77% | 3.24 |
| FE-Met Ed | Improved Controls - Process Heating | Mfg: Plastics | Process Heating | New | end use | 539,166 | 17% | 12.67 | 10 | \$6,195 | 77% | 3.24 |
| FE-Met Ed | Process Heat O&M | Mfg: Plastics | Process Heating | Existing | end use | 539,166 | 16% | 11.98 | 2 | \$3,744 | 77% | 0.95 |
| FE-Met Ed | Process Heat O&M | Mfg: Plastics | Process Heating | New | end use | 539,166 | 16% | 11.98 | 2 | \$3,744 | 77% | 0.95 |
| FE-Met Ed | Facility Energy Management | Mfg: Plastics | Process Other | Existing | end use | 355,269 | 1.9% | 0.92 | 2 | \$137 | 73% | 1.19 |
| FE-Met Ed | Facility Energy Management | Mfg: Plastics | Process Other | New | end use | 355,269 | 1.9% | 0.92 | 2 | \$137 | 73% | 1.18 |
| FE-Met Ed | Adjustable speed drive on compressors | Mfg: Plastics | Process Refrigeration | Early | end use | 120,978 | 12% | 2.07 | 10 | \$2,238 | 30% | 1.99 |
| FE-Met Ed | Adjustable speed drive on compressors | Mfg: Plastics | Process Refrigeration | New | end use | 120,978 | 12% | 2.07 | 10 | \$2,238 | 30% | 1.99 |
| FE-Met Ed | Adjustable speed drive on compressors | Mfg: Plastics | Process Refrigeration | ROB | end use | 120,978 | 12% | 2.07 | 10 | \$2,238 | 30% | 1.99 |
| FE-Met Ed | Cooling Tower Optimization | Mfg: Plastics | Process Refrigeration | Existing | building | 120,978 | 20% | 8.66 | 10 | \$742 | 23% | 5.47 |
| FE-Met Ed | Optimization of operating parameters | Mfg: Plastics | Process Refrigeration | Existing | end use | 120,978 | 13% | 2.32 | 3 | \$977 | 27% | 1.20 |
| FE-Met Ed | Optimization of operating parameters | Mfg: Plastics | Process Refrigeration | New | end use | 120,978 | 13% | 2.32 | 3 | \$977 | 27% | 1.20 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|--|---------------|-----------------------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Synchronous Belts | Mfg: Plastics | Process Refrigeration | Early | end use | 120,978 | 1.2% | 0.21 | 10 | \$178 | 30% | 2.31 |
| FE-Met Ed | Synchronous Belts | Mfg: Plastics | Process Refrigeration | New | end use | 120,978 | 1.2% | 0.21 | 10 | \$178 | 30% | 2.31 |
| FE-Met Ed | Synchronous Belts | Mfg: Plastics | Process Refrigeration | ROB | end use | 120,978 | 1.2% | 0.21 | 10 | \$178 | 30% | 2.31 |
| FE-Met Ed | VFD on Cooling Tower Fan | Mfg: Plastics | Process Refrigeration | Early | motor | 120,978 | 21% | 7.61 | 15 | \$5,574 | 24% | 2.54 |
| FE-Met Ed | VFD on Cooling Tower Fan | Mfg: Plastics | Process Refrigeration | New | motor | 120,978 | 22% | 7.61 | 15 | \$5,680 | 24% | 2.53 |
| FE-Met Ed | VFD on Cooling Tower Fan | Mfg: Plastics | Process Refrigeration | ROB | motor | 120,978 | 22% | 7.61 | 15 | \$5,680 | 24% | 2.53 |
| FE-Met Ed | Facility Energy Management | Mfg: Plastics | Pumps | Existing | end use | 1,032,653 | 1.9% | 2.47 | 2 | \$398 | 65% | 1.22 |
| FE-Met Ed | Facility Energy Management | Mfg: Plastics | Pumps | New | end use | 1,032,653 | 1.9% | 2.47 | 2 | \$398 | 65% | 1.22 |
| FE-Met Ed | HE Motors | Mfg: Plastics | Pumps | Early | end use | 1,032,653 | 2.0% | 2.75 | 15 | \$6,147 | 69% | 1.74 |
| FE-Met Ed | HE Motors | Mfg: Plastics | Pumps | New | end use | 1,032,653 | 2.0% | 2.75 | 15 | \$6,147 | 69% | 1.74 |
| FE-Met Ed | HE Motors | Mfg: Plastics | Pumps | ROB | end use | 1,032,653 | 2.0% | 2.75 | 15 | \$6,147 | 69% | 1.74 |
| FE-Met Ed | Motor rewinds | Mfg: Plastics | Pumps | Existing | end use | 1,032,653 | 0.6% | 0.80 | 9 | \$1,468 | 11% | 1.37 |
| FE-Met Ed | Motor rewinds | Mfg: Plastics | Pumps | New | end use | 1,032,653 | 0.6% | 0.80 | 9 | \$1,468 | 11% | 1.37 |
| FE-Met Ed | Pump Equipment Upgrade | Mfg: Plastics | Pumps | Early | end use | 1,032,653 | 20% | 26.87 | 12 | \$25,816 | 77% | 2.64 |
| FE-Met Ed | Pump Equipment Upgrade | Mfg: Plastics | Pumps | New | end use | 1,032,653 | 20% | 26.87 | 12 | \$25,816 | 77% | 2.64 |
| FE-Met Ed | Pump Equipment Upgrade | Mfg: Plastics | Pumps | ROB | end use | 1,032,653 | 20% | 26.87 | 12 | \$25,816 | 77% | 2.64 |
| FE-Met Ed | Pump System Optimization | Mfg: Plastics | Pumps | Existing | end use | 1,032,653 | 8.7% | 11.68 | 12 | \$18,907 | 36% | 1.88 |
| FE-Met Ed | Pump System Optimization | Mfg: Plastics | Pumps | New | end use | 1,032,653 | 8.7% | 11.68 | 12 | \$18,907 | 36% | 1.88 |
| FE-Met Ed | Synchronous Belts | Mfg: Plastics | Pumps | Early | end use | 1,032,653 | 1.2% | 1.56 | 10 | \$1,522 | 57% | 2.27 |
| FE-Met Ed | Synchronous Belts | Mfg: Plastics | Pumps | New | end use | 1,032,653 | 1.2% | 1.56 | 10 | \$1,522 | 57% | 2.27 |
| FE-Met Ed | Synchronous Belts | Mfg: Plastics | Pumps | ROB | end use | 1,032,653 | 1.2% | 1.56 | 10 | \$1,522 | 57% | 2.27 |
| FE-Met Ed | <65k BTU/hr 14 SEER Air Conditioner | Mining | HVAC | Early | unit (ton) | 239,079 | 9.2% | 5.69 | 15 | \$43,551 | 28% | 0.36 |
| FE-Met Ed | <65k BTU/hr 14 SEER Air Conditioner | Mining | HVAC | New | unit (ton) | 239,079 | 4.1% | 2.56 | 15 | \$10,552 | 28% | 0.64 |
| FE-Met Ed | <65k BTU/hr 14 SEER Air Conditioner | Mining | HVAC | ROB | unit (ton) | 239,079 | 4.1% | 2.56 | 15 | \$10,552 | 28% | 0.64 |
| FE-Met Ed | <65k BTU/hr 15 SEER Air Conditioner | Mining | HVAC | Early | unit (ton) | 239,079 | 12% | 7.69 | 15 | \$51,342 | 28% | 0.41 |
| FE-Met Ed | <65k BTU/hr 15 SEER Air Conditioner | Mining | HVAC | New | unit (ton) | 239,079 | 7.7% | 4.77 | 15 | \$22,224 | 28% | 0.57 |
| FE-Met Ed | <65k BTU/hr 15 SEER Air Conditioner | Mining | HVAC | ROB | unit (ton) | 239,079 | 7.7% | 4.77 | 15 | \$22,224 | 28% | 0.57 |
| FE-Met Ed | <65k BTU/hr 16 SEER Air Conditioner | Mining | HVAC | Early | unit (ton) | 239,079 | 15% | 9.45 | 15 | \$59,133 | 29% | 0.43 |
| FE-Met Ed | <65k BTU/hr 16 SEER Air Conditioner | Mining | HVAC | New | unit (ton) | 239,079 | 11% | 6.71 | 15 | \$33,896 | 29% | 0.53 |
| FE-Met Ed | <65k BTU/hr 16 SEER Air Conditioner | Mining | HVAC | ROB | unit (ton) | 239,079 | 11% | 6.71 | 15 | \$33,896 | 29% | 0.53 |
| FE-Met Ed | >760k min 10.2 EER Air Conditioner | Mining | HVAC | Early | unit (ton) | 239,079 | 2.1% | 1.32 | 15 | \$75,841 | 35% | 0.05 |
| FE-Met Ed | >760k min 10.2 EER Air Conditioner | Mining | HVAC | New | unit (ton) | 239,079 | 2.8% | 1.75 | 15 | \$6,855 | 35% | 0.68 |
| FE-Met Ed | >760k min 10.2 EER Air Conditioner | Mining | HVAC | ROB | unit (ton) | 239,079 | 2.8% | 1.75 | 15 | \$6,855 | 35% | 0.68 |
| FE-Met Ed | 135-240k min 12 EER Air Conditioner | Mining | HVAC | Early | unit (ton) | 239,079 | 10% | 6.49 | 15 | \$82,124 | 35% | 0.22 |
| FE-Met Ed | 135-240k min 12 EER Air Conditioner | Mining | HVAC | New | unit (ton) | 239,079 | 5.8% | 3.58 | 15 | \$9,697 | 35% | 0.95 |
| FE-Met Ed | 135-240k min 12 EER Air Conditioner | Mining | HVAC | ROB | unit (ton) | 239,079 | 5.8% | 3.58 | 15 | \$9,697 | 35% | 0.95 |
| FE-Met Ed | 240k-760k min 11 EER Air Conditioner | Mining | HVAC | Early | unit (ton) | 239,079 | 5.2% | 3.23 | 15 | \$75,889 | 35% | 0.12 |
| FE-Met Ed | 240k-760k min 11 EER Air Conditioner | Mining | HVAC | New | unit (ton) | 239,079 | 5.3% | 3.31 | 15 | \$8,130 | 35% | 1.04 |
| FE-Met Ed | 240k-760k min 11 EER Air Conditioner | Mining | HVAC | ROB | unit (ton) | 239,079 | 5.3% | 3.31 | 15 | \$8,130 | 35% | 1.04 |
| FE-Met Ed | 65k-135k BTU/hr 12 EER Air Conditioner | Mining | HVAC | Early | unit (ton) | 239,079 | 9.7% | 6.02 | 15 | \$84,088 | 35% | 0.20 |
| FE-Met Ed | 65k-135k BTU/hr 12 EER Air Conditioner | Mining | HVAC | New | unit (ton) | 239,079 | 3.8% | 2.38 | 15 | \$11,997 | 35% | 0.53 |
| FE-Met Ed | 65k-135k BTU/hr 12 EER Air Conditioner | Mining | HVAC | ROB | unit (ton) | 239,079 | 3.8% | 2.38 | 15 | \$11,997 | 35% | 0.53 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Mining | HVAC | Existing | building | 239,079 | 5.9% | 3.55 | 15 | \$724,372 | 71% | 0.01 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Mining | HVAC | New | building | 239,079 | 3.7% | 2.23 | 15 | \$688,536 | 94% | 0.01 |
| FE-Met Ed | Chiller Tuneup/Diagnostics | Mining | HVAC | Existing | building | 239,079 | 8.0% | 7.01 | 10 | \$610,476 | 59% | 0.02 |
| FE-Met Ed | Chiller Tuneup/Diagnostics | Mining | HVAC | New | building | 239,079 | 8.0% | 7.03 | 10 | \$610,476 | 59% | 0.02 |
| FE-Met Ed | Cooling Tower Optimization | Mining | HVAC | Existing | building | 239,079 | 20% | 17.11 | 10 | \$1,466 | 14% | 5.42 |
| FE-Met Ed | Duct Insulation, Add R8 | Mining | HVAC | Existing | building | 239,079 | 1.5% | 0.77 | 15 | \$1,899 | 18% | 1.20 |
| FE-Met Ed | Duct Insulation, Add R8 | Mining | HVAC | New | building | 239,079 | 1.5% | 0.76 | 15 | \$1,899 | 9% | 1.20 |
| FE-Met Ed | Ductless Heat Pump | Mining | HVAC | Early | heat pump | 239,079 | 0.8% | 0.45 | 15 | \$18,988 | 83% | 0.07 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|---------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Ductless Heat Pump | Mining | HVAC | New | heat pump | 239,079 | 0.4% | 0.24 | 15 | \$5,514 | 83% | 0.13 |
| FE-Met Ed | Ductless Heat Pump | Mining | HVAC | ROB | heat pump | 239,079 | 0.4% | 0.24 | 15 | \$5,514 | 83% | 0.13 |
| FE-Met Ed | DX Coil Cleaning | Mining | HVAC | Existing | building | 239,079 | 13% | 10.97 | 1 | \$2,292 | 73% | 0.52 |
| FE-Met Ed | DX Coil Cleaning | Mining | HVAC | New | building | 239,079 | 13% | 10.97 | 1 | \$2,292 | 73% | 0.52 |
| FE-Met Ed | Efficient Unit Heating System | Mining | HVAC | Early | heater | 239,079 | 6.9% | 0.14 | 15 | \$12,879 | 83% | 0.63 |
| FE-Met Ed | Efficient Unit Heating System | Mining | HVAC | New | heater | 239,079 | 4.0% | 0.08 | 15 | \$8,785 | 83% | 0.53 |
| FE-Met Ed | Efficient Unit Heating System | Mining | HVAC | ROB | heater | 239,079 | 4.0% | 0.08 | 15 | \$8,785 | 83% | 0.53 |
| FE-Met Ed | Ground Source Heat Pump (Closed Loop) | Mining | HVAC | Early | heat pump | 239,079 | 1.3% | 0.70 | 15 | \$39,428 | 19% | 0.05 |
| FE-Met Ed | Ground Source Heat Pump (Closed Loop) | Mining | HVAC | New | heat pump | 239,079 | 1.0% | 0.55 | 15 | \$15,568 | 19% | 0.11 |
| FE-Met Ed | Ground Source Heat Pump (Closed Loop) | Mining | HVAC | ROB | heat pump | 239,079 | 1.0% | 0.55 | 15 | \$15,568 | 19% | 0.11 |
| FE-Met Ed | Ground Source Heat Pump (Open Loop) | Mining | HVAC | Early | heat pump | 239,079 | 1.3% | 0.70 | 15 | \$25,252 | 19% | 0.08 |
| FE-Met Ed | Ground Source Heat Pump (Open Loop) | Mining | HVAC | New | heat pump | 239,079 | 1.0% | 0.55 | 15 | \$535 | 19% | 2.35 |
| FE-Met Ed | Ground Source Heat Pump (Open Loop) | Mining | HVAC | ROB | heat pump | 239,079 | 1.0% | 0.55 | 15 | \$535 | 19% | 2.35 |
| FE-Met Ed | HE Air Cooled Chiller, 100 Tons | Mining | HVAC | Early | unit (ton) | 239,079 | 1.5% | 0.79 | 15 | \$281,075 | 89% | 0.01 |
| FE-Met Ed | HE Air Cooled Chiller, 100 Tons | Mining | HVAC | New | unit (ton) | 239,079 | 0.4% | 0.22 | 15 | \$40,947 | 89% | 0.02 |
| FE-Met Ed | HE Air Cooled Chiller, 100 Tons | Mining | HVAC | ROB | unit (ton) | 239,079 | 0.4% | 0.22 | 15 | \$40,947 | 89% | 0.02 |
| FE-Met Ed | HE Air Cooled Chiller, 150 Tons | Mining | HVAC | Early | unit (ton) | 239,079 | 1.5% | 0.78 | 15 | \$242,786 | 89% | 0.01 |
| FE-Met Ed | HE Air Cooled Chiller, 150 Tons | Mining | HVAC | New | unit (ton) | 239,079 | 0.3% | 0.16 | 15 | \$20,109 | 89% | 0.03 |
| FE-Met Ed | HE Air Cooled Chiller, 150 Tons | Mining | HVAC | ROB | unit (ton) | 239,079 | 0.3% | 0.16 | 15 | \$20,109 | 89% | 0.03 |
| FE-Met Ed | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mining | HVAC | Early | heat pump | 239,079 | 1.4% | 0.74 | 12 | \$10,292 | 81% | 0.17 |
| FE-Met Ed | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mining | HVAC | Early | heat pump | 239,079 | 1.1% | 0.61 | 12 | \$7,520 | 81% | 0.20 |
| FE-Met Ed | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mining | HVAC | New | heat pump | 239,079 | 1.0% | 0.55 | 12 | \$4,595 | 81% | 0.29 |
| FE-Met Ed | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mining | HVAC | New | heat pump | 239,079 | 0.8% | 0.41 | 12 | \$1,606 | 81% | 0.59 |
| FE-Met Ed | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mining | HVAC | ROB | heat pump | 239,079 | 1.0% | 0.55 | 12 | \$4,595 | 81% | 0.29 |
| FE-Met Ed | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mining | HVAC | ROB | heat pump | 239,079 | 0.8% | 0.41 | 12 | \$1,606 | 81% | 0.59 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 175 Tons | Mining | HVAC | Early | unit (ton) | 239,079 | 1.6% | 0.86 | 15 | \$22,302 | 89% | 0.12 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 175 Tons | Mining | HVAC | New | unit (ton) | 239,079 | 0.9% | 0.50 | 15 | \$7,417 | 89% | 0.21 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 175 Tons | Mining | HVAC | ROB | unit (ton) | 239,079 | 0.9% | 0.50 | 15 | \$7,417 | 89% | 0.21 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 300 Tons | Mining | HVAC | Early | unit (ton) | 239,079 | 1.4% | 0.76 | 15 | \$21,781 | 89% | 0.11 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 300 Tons | Mining | HVAC | New | unit (ton) | 239,079 | 1.0% | 0.54 | 15 | \$4,253 | 89% | 0.38 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 300 Tons | Mining | HVAC | ROB | unit (ton) | 239,079 | 1.4% | 0.76 | 15 | \$3,907 | 89% | 0.58 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 500 Tons | Mining | HVAC | Early | unit (ton) | 239,079 | 1.4% | 0.75 | 15 | \$25,779 | 89% | 0.09 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 500 Tons | Mining | HVAC | New | unit (ton) | 239,079 | 0.9% | 0.48 | 15 | \$10,854 | 89% | 0.14 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 500 Tons | Mining | HVAC | ROB | unit (ton) | 239,079 | 1.4% | 0.75 | 15 | \$9,823 | 89% | 0.24 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 600 Tons | Mining | HVAC | Early | unit (ton) | 239,079 | 1.4% | 0.75 | 15 | \$24,832 | 89% | 0.10 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 600 Tons | Mining | HVAC | New | unit (ton) | 239,079 | 0.9% | 0.48 | 15 | \$9,434 | 89% | 0.16 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 600 Tons | Mining | HVAC | ROB | unit (ton) | 239,079 | 1.4% | 0.75 | 15 | \$8,539 | 89% | 0.27 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 100 Tons | Mining | HVAC | Early | unit (ton) | 239,079 | 1.8% | 0.98 | 15 | \$26,757 | 89% | 0.11 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 100 Tons | Mining | HVAC | New | unit (ton) | 239,079 | 0.6% | 0.30 | 15 | \$16,568 | 89% | 0.06 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 100 Tons | Mining | HVAC | ROB | unit (ton) | 239,079 | 1.8% | 0.98 | 15 | \$12,865 | 89% | 0.24 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 175 Tons | Mining | HVAC | Early | unit (ton) | 239,079 | 2.2% | 1.16 | 15 | \$24,611 | 89% | 0.15 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 175 Tons | Mining | HVAC | New | unit (ton) | 239,079 | 0.8% | 0.42 | 15 | \$9,876 | 89% | 0.13 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 175 Tons | Mining | HVAC | ROB | unit (ton) | 239,079 | 0.8% | 0.42 | 15 | \$9,876 | 89% | 0.13 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 300 Tons | Mining | HVAC | Early | unit (ton) | 239,079 | 2.4% | 1.31 | 15 | \$20,859 | 89% | 0.19 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 300 Tons | Mining | HVAC | New | unit (ton) | 239,079 | 0.9% | 0.49 | 15 | \$5,249 | 89% | 0.29 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 300 Tons | Mining | HVAC | ROB | unit (ton) | 239,079 | 2.4% | 1.31 | 15 | \$3,742 | 89% | 1.00 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 50 Tons | Mining | HVAC | Early | unit (ton) | 239,079 | 1.8% | 0.99 | 15 | \$20,649 | 89% | 0.15 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 50 Tons | Mining | HVAC | New | unit (ton) | 239,079 | 0.7% | 0.37 | 15 | \$5,782 | 89% | 0.20 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 50 Tons | Mining | HVAC | ROB | unit (ton) | 239,079 | 1.8% | 0.99 | 15 | \$4,581 | 89% | 0.64 |
| FE-Met Ed | HVAC Diagnostic/Air Conditioner Tune Up | Mining | HVAC | Existing | building | 239,079 | 2.9% | 1.41 | 5 | \$2,536 | 55% | 0.63 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|---------|----------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | HVAC Diagnostic/Air Conditioner Tune Up | Mining | HVAC | New | building | 239,079 | 0.6% | 0.56 | 5 | \$1,522 | 51% | 0.30 |
| FE-Met Ed | Outside Air Economizer | Mining | HVAC | Existing | building | 239,079 | 1.1% | 0.67 | 10 | \$878,422 | 82% | 0.00 |
| FE-Met Ed | Outside Air Economizer | Mining | HVAC | New | building | 239,079 | 1.1% | 0.67 | 10 | \$878,422 | 82% | 0.00 |
| FE-Met Ed | Room AC (with louvered sides) | Mining | HVAC | Early | unit (ton) | 239,079 | 7.7% | 4.15 | 9 | \$18,739 | 78% | 0.43 |
| FE-Met Ed | Room AC (with louvered sides) | Mining | HVAC | New | unit (ton) | 239,079 | 2.6% | 1.38 | 9 | \$1,026 | 78% | 1.97 |
| FE-Met Ed | Room AC (with louvered sides) | Mining | HVAC | ROB | unit (ton) | 239,079 | 2.6% | 1.38 | 9 | \$1,026 | 78% | 1.97 |
| FE-Met Ed | Variable Refrigerant Flow Heat Pump | Mining | HVAC | New | measure | 239,079 | 0.1% | 0.06 | 13 | \$1,768 | 43% | 0.09 |
| FE-Met Ed | Variable Refrigerant Flow Heat Pump | Mining | HVAC | ROB | measure | 239,079 | 0.1% | 0.06 | 13 | \$1,768 | 43% | 0.09 |
| FE-Met Ed | VFD on Cooling Tower Fan | Mining | HVAC | Early | motor | 239,079 | 21% | 15.04 | 15 | \$11,016 | 15% | 2.65 |
| FE-Met Ed | VFD on Cooling Tower Fan | Mining | HVAC | New | motor | 239,079 | 22% | 15.04 | 15 | \$11,226 | 15% | 2.63 |
| FE-Met Ed | VFD on Cooling Tower Fan | Mining | HVAC | ROB | motor | 239,079 | 22% | 15.04 | 15 | \$11,226 | 15% | 2.63 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Mining | HVAC | Existing | building | 239,079 | 19% | 11.43 | 15 | \$170,073 | 26% | 0.19 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Mining | HVAC | New | building | 239,079 | 0.6% | 0.37 | 15 | \$130,454 | 94% | 0.01 |
| FE-Met Ed | Water Source Heat Pump (4 ton) | Mining | HVAC | Early | heat pump | 239,079 | 1.5% | 0.83 | 15 | \$40,829 | 28% | 0.06 |
| FE-Met Ed | Water Source Heat Pump (4 ton) | Mining | HVAC | New | heat pump | 239,079 | 1.1% | 0.61 | 15 | \$19,899 | 28% | 0.09 |
| FE-Met Ed | Water Source Heat Pump (4 ton) | Mining | HVAC | ROB | heat pump | 239,079 | 1.1% | 0.61 | 15 | \$19,899 | 28% | 0.09 |
| FE-Met Ed | Efficient Metal Halide (High Bay) | Mining | Lighting | Early | end use | 194,243 | 42% | 0.00 | 9 | \$30,353 | 53% | 0.81 |
| FE-Met Ed | Efficient Metal Halide (High Bay) | Mining | Lighting | New | end use | 194,243 | 41% | 0.00 | 13 | \$810,731 | 61% | 0.05 |
| FE-Met Ed | Efficient Metal Halide (High Bay) | Mining | Lighting | ROB | end use | 194,243 | 41% | 0.00 | 13 | \$619,606 | 61% | 0.06 |
| FE-Met Ed | Induction (High Bay) | Mining | Lighting | Early | end use | 194,243 | 94% | 0.00 | 13 | \$90,313 | 95% | 0.87 |
| FE-Met Ed | Induction (High Bay) | Mining | Lighting | New | end use | 194,243 | 94% | 0.00 | 13 | \$84,555 | 95% | 0.92 |
| FE-Met Ed | Induction (High Bay) | Mining | Lighting | ROB | end use | 194,243 | 94% | 0.00 | 13 | \$64,265 | 95% | 1.16 |
| FE-Met Ed | LED (High Bay) | Mining | Lighting | Early | end use | 194,243 | 69% | 0.00 | 14 | \$106,311 | 95% | 0.60 |
| FE-Met Ed | LED (High Bay) | Mining | Lighting | New | end use | 194,243 | 55% | 0.01 | 14 | \$118,002 | 95% | 0.44 |
| FE-Met Ed | LED (High Bay) | Mining | Lighting | ROB | end use | 194,243 | 59% | 0.01 | 14 | \$77,750 | 95% | 0.69 |
| FE-Met Ed | Lighting Controls | Mining | Lighting | Existing | end use | 194,243 | 20% | 0.00 | 6 | \$728,193 | 16% | 0.01 |
| FE-Met Ed | Lighting Controls | Mining | Lighting | New | end use | 194,243 | 12% | 0.00 | 10 | \$968,734 | 11% | 0.01 |
| FE-Met Ed | Linear Fluorescent (High Bay) | Mining | Lighting | Early | end use | 194,243 | 17% | 0.00 | 14 | \$22,226 | 98% | 0.69 |
| FE-Met Ed | Linear Fluorescent (High Bay) | Mining | Lighting | New | end use | 194,243 | 13% | 0.00 | 14 | \$7,048 | 91% | 1.47 |
| FE-Met Ed | Linear Fluorescent (High Bay) | Mining | Lighting | ROB | end use | 194,243 | 13% | 0.00 | 14 | \$4,513 | 91% | 2.12 |
| FE-Met Ed | Metal Halide (High Bay) | Mining | Lighting | Early | end use | 194,243 | 62% | 0.00 | 13 | \$133,529 | 38% | 0.42 |
| FE-Met Ed | Metal Halide (High Bay) | Mining | Lighting | New | end use | 194,243 | 73% | 0.00 | 13 | \$31,925 | 38% | 1.65 |
| FE-Met Ed | Metal Halide (High Bay) | Mining | Lighting | ROB | end use | 194,243 | 73% | 0.00 | 13 | \$24,263 | 38% | 2.02 |
| FE-Met Ed | Screw Base CFL | Mining | Lighting | Early | end use | 194,243 | 80% | 0.00 | 7 | \$52,771 | 17% | 0.70 |
| FE-Met Ed | Screw Base CFL | Mining | Lighting | New | end use | 194,243 | 73% | 0.00 | 9 | \$43,127 | 18% | 0.95 |
| FE-Met Ed | Screw Base CFL | Mining | Lighting | ROB | end use | 194,243 | 73% | 0.00 | 9 | \$36,097 | 17% | 1.10 |
| FE-Met Ed | Screw Base LED | Mining | Lighting | Early | end use | 194,243 | 76% | 0.00 | 9 | \$32,386 | 21% | 1.28 |
| FE-Met Ed | Screw Base LED | Mining | Lighting | New | end use | 194,243 | 77% | 0.00 | 9 | \$18,041 | 20% | 1.95 |
| FE-Met Ed | Screw Base LED | Mining | Lighting | ROB | end use | 194,243 | 77% | 0.00 | 9 | \$14,322 | 21% | 2.25 |
| FE-Met Ed | T8 High Performance Linear Florescent | Mining | Lighting | Early | end use | 194,243 | 36% | 0.00 | 14 | \$18,588 | 71% | 1.56 |
| FE-Met Ed | T8 High Performance Linear Florescent | Mining | Lighting | New | end use | 194,243 | 26% | 0.00 | 14 | \$6,650 | 76% | 2.63 |
| FE-Met Ed | T8 High Performance Linear Florescent | Mining | Lighting | ROB | end use | 194,243 | 26% | 0.00 | 14 | \$5,055 | 76% | 3.11 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 1-15 HP | Mining | Motors | Early | end use | 322,790 | 0.9% | 0.42 | 15 | \$4,931 | 81% | 0.36 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 1-15 HP | Mining | Motors | New | end use | 322,790 | 0.9% | 0.42 | 15 | \$4,931 | 81% | 0.36 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 1-15 HP | Mining | Motors | ROB | end use | 322,790 | 0.9% | 0.42 | 15 | \$4,931 | 81% | 0.36 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 125-200 HP | Mining | Motors | Early | end use | 322,790 | 0.7% | 0.34 | 15 | \$2,995 | 73% | 0.48 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 125-200 HP | Mining | Motors | New | end use | 322,790 | 0.7% | 0.34 | 15 | \$2,995 | 73% | 0.48 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 125-200 HP | Mining | Motors | ROB | end use | 322,790 | 0.7% | 0.34 | 15 | \$2,995 | 73% | 0.48 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 20-40 HP | Mining | Motors | Early | end use | 322,790 | 0.4% | 0.21 | 15 | \$1,148 | 81% | 0.73 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 20-40 HP | Mining | Motors | New | end use | 322,790 | 0.4% | 0.21 | 15 | \$1,148 | 81% | 0.73 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|---------------|------------------------|----------|---------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Enhanced (Ultra-PE) Motor 20-40 HP | Mining | Motors | ROB | end use | 322,790 | 0.4% | 0.21 | 15 | \$1,148 | 81% | 0.73 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 250-500 HP | Mining | Motors | Early | end use | 322,790 | 0.4% | 0.18 | 15 | \$379 | 73% | 1.72 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 250-500 HP | Mining | Motors | New | end use | 322,790 | 0.4% | 0.18 | 15 | \$379 | 73% | 1.72 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 250-500 HP | Mining | Motors | ROB | end use | 322,790 | 0.4% | 0.18 | 15 | \$379 | 73% | 1.72 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 50-100 HP | Mining | Motors | Early | end use | 322,790 | 0.9% | 0.42 | 15 | \$568 | 47% | 2.43 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 50-100 HP | Mining | Motors | New | end use | 322,790 | 0.9% | 0.42 | 15 | \$568 | 47% | 2.43 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 50-100 HP | Mining | Motors | ROB | end use | 322,790 | 0.9% | 0.42 | 15 | \$568 | 47% | 2.43 |
| FE-Met Ed | HE Motors | Mining | Motors | Early | end use | 322,790 | 2.0% | 0.94 | 15 | \$1,922 | 38% | 1.76 |
| FE-Met Ed | HE Motors | Mining | Motors | New | end use | 322,790 | 2.0% | 0.94 | 15 | \$1,922 | 38% | 1.76 |
| FE-Met Ed | HE Motors | Mining | Motors | ROB | end use | 322,790 | 2.0% | 0.94 | 15 | \$1,922 | 38% | 1.76 |
| FE-Met Ed | Improved Controls - Motors | Mining | Motors | Existing | end use | 322,790 | 4.0% | 1.82 | 10 | \$1,403 | 13% | 2.51 |
| FE-Met Ed | Improved Controls - Motors | Mining | Motors | New | end use | 322,790 | 4.0% | 1.82 | 10 | \$1,403 | 13% | 2.51 |
| FE-Met Ed | Material Handling | Mining | Motors | Early | end use | 322,790 | 18% | 8.49 | 10 | \$15,603 | 77% | 1.36 |
| FE-Met Ed | Material Handling | Mining | Motors | New | end use | 322,790 | 18% | 8.49 | 10 | \$15,603 | 77% | 1.36 |
| FE-Met Ed | Material Handling | Mining | Motors | ROB | end use | 322,790 | 18% | 8.49 | 10 | \$15,603 | 77% | 1.36 |
| FE-Met Ed | Material Handling VFD | Mining | Motors | Early | end use | 322,790 | 16% | 7.43 | 10 | \$10,792 | 77% | 1.63 |
| FE-Met Ed | Material Handling VFD | Mining | Motors | New | end use | 322,790 | 16% | 7.43 | 10 | \$10,792 | 77% | 1.63 |
| FE-Met Ed | Material Handling VFD | Mining | Motors | ROB | end use | 322,790 | 16% | 7.43 | 10 | \$10,792 | 77% | 1.63 |
| FE-Met Ed | Motor Management Plan | Mining | Motors | Existing | end use | 322,790 | 2.9% | 1.33 | 10 | \$658 | 73% | 3.21 |
| FE-Met Ed | Motor Management Plan | Mining | Motors | New | end use | 322,790 | 2.9% | 1.33 | 10 | \$658 | 73% | 3.22 |
| FE-Met Ed | Motors Other | Mining | Motors | Existing | end use | 322,790 | 1.1% | 0.50 | 15 | \$64 | 83% | 7.20 |
| FE-Met Ed | Motors Other | Mining | Motors | New | end use | 322,790 | 1.1% | 0.50 | 15 | \$64 | 83% | 7.20 |
| FE-Met Ed | Motors: Rewind 101-200 HP | Mining | Motors | Existing | end use | 322,790 | 0.6% | 0.26 | 10 | \$408 | 27% | 1.53 |
| FE-Met Ed | Motors: Rewind 101-200 HP | Mining | Motors | New | end use | 322,790 | 0.6% | 0.26 | 10 | \$408 | 27% | 1.52 |
| FE-Met Ed | Motors: Rewind 201-500 HP | Mining | Motors | Existing | end use | 322,790 | 0.6% | 0.25 | 8 | \$256 | 27% | 1.77 |
| FE-Met Ed | Motors: Rewind 201-500 HP | Mining | Motors | New | end use | 322,790 | 0.6% | 0.25 | 8 | \$256 | 27% | 1.78 |
| FE-Met Ed | Motors: Rewind 20-50 HP | Mining | Motors | Existing | end use | 322,790 | 1.0% | 0.48 | 11 | \$1,198 | 42% | 1.15 |
| FE-Met Ed | Motors: Rewind 20-50 HP | Mining | Motors | New | end use | 322,790 | 1.0% | 0.48 | 11 | \$1,198 | 42% | 1.16 |
| FE-Met Ed | Motors: Rewind 500+ HP | Mining | Motors | Existing | end use | 322,790 | 0.6% | 0.26 | 8 | \$183 | 11% | 2.21 |
| FE-Met Ed | Motors: Rewind 500+ HP | Mining | Motors | New | end use | 322,790 | 0.6% | 0.26 | 8 | \$183 | 11% | 2.23 |
| FE-Met Ed | Motors: Rewind 51-100 HP | Mining | Motors | Existing | end use | 322,790 | 0.6% | 0.28 | 9 | \$591 | 42% | 1.13 |
| FE-Met Ed | Motors: Rewind 51-100 HP | Mining | Motors | New | end use | 322,790 | 0.6% | 0.28 | 9 | \$591 | 42% | 1.11 |
| FE-Met Ed | Switch from Belt drive to Direct Drive | Mining | Motors | Early | end use | 322,790 | 7.5% | 3.46 | 12 | \$5,179 | 30% | 1.84 |
| FE-Met Ed | Switch from Belt drive to Direct Drive | Mining | Motors | New | end use | 322,790 | 7.5% | 3.46 | 12 | \$5,179 | 30% | 1.84 |
| FE-Met Ed | Switch from Belt drive to Direct Drive | Mining | Motors | ROB | end use | 322,790 | 7.5% | 3.46 | 12 | \$5,179 | 30% | 1.84 |
| FE-Met Ed | Synchronous Belts | Mining | Motors | Early | end use | 322,790 | 1.2% | 0.54 | 10 | \$476 | 30% | 2.30 |
| FE-Met Ed | Synchronous Belts | Mining | Motors | New | end use | 322,790 | 1.2% | 0.54 | 10 | \$476 | 30% | 2.30 |
| FE-Met Ed | Synchronous Belts | Mining | Motors | ROB | end use | 322,790 | 1.2% | 0.54 | 10 | \$476 | 30% | 2.30 |
| FE-Met Ed | Air Compressor Demand Reduction | Mining | Process Air Compressor | Existing | end use | 7,184 | 26% | 0.24 | 10 | \$108 | 52% | 3.47 |
| FE-Met Ed | Air Compressor Demand Reduction | Mining | Process Air Compressor | New | end use | 7,184 | 26% | 0.24 | 10 | \$108 | 52% | 3.47 |
| FE-Met Ed | VFD on Cooling Tower Fan | Mining | Process Cooling | Early | motor | 117,093 | 21% | 7.37 | 15 | \$5,395 | 24% | 2.54 |
| FE-Met Ed | VFD on Cooling Tower Fan | Mining | Process Cooling | New | motor | 117,093 | 22% | 7.37 | 15 | \$5,498 | 24% | 2.53 |
| FE-Met Ed | VFD on Cooling Tower Fan | Mining | Process Cooling | ROB | motor | 117,093 | 22% | 7.37 | 15 | \$5,498 | 24% | 2.53 |
| FE-Met Ed | VFD on Cooling Tower Fan | Mining | Process Refrigeration | Early | motor | 60,149 | 21% | 3.78 | 15 | \$2,771 | 24% | 2.54 |
| FE-Met Ed | VFD on Cooling Tower Fan | Mining | Process Refrigeration | New | motor | 60,149 | 22% | 3.78 | 15 | \$2,824 | 24% | 2.53 |
| FE-Met Ed | VFD on Cooling Tower Fan | Mining | Process Refrigeration | ROB | motor | 60,149 | 22% | 3.79 | 15 | \$2,824 | 24% | 2.53 |
| FE-Met Ed | Agricultural Exhaust Fans (Rate 21 CFM) | Other Non-Mfg | Fans | Early | end use | 12,664 | 5.0% | 0.08 | 15 | \$161 | 11% | 1.97 |
| FE-Met Ed | Agricultural Exhaust Fans (Rate 21 CFM) | Other Non-Mfg | Fans | New | end use | 12,664 | 5.0% | 0.08 | 15 | \$161 | 11% | 1.97 |
| FE-Met Ed | Agricultural Exhaust Fans (Rate 21 CFM) | Other Non-Mfg | Fans | ROB | end use | 12,664 | 5.0% | 0.08 | 15 | \$161 | 11% | 1.97 |
| FE-Met Ed | Circulating Fans | Other Non-Mfg | Fans | Early | end use | 12,664 | 5.0% | 0.08 | 10 | \$77 | 53% | 2.36 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|--|---------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Circulating Fans | Other Non-Mfg | Fans | New | end use | 12,664 | 5.0% | 0.08 | 10 | \$77 | 53% | 2.35 |
| FE-Met Ed | Circulating Fans | Other Non-Mfg | Fans | ROB | end use | 12,664 | 5.0% | 0.08 | 10 | \$77 | 53% | 2.35 |
| FE-Met Ed | Facility Energy Management | Other Non-Mfg | Fans | Existing | end use | 12,664 | 1.9% | 0.03 | 2 | \$4.9 | 61% | 1.21 |
| FE-Met Ed | Facility Energy Management | Other Non-Mfg | Fans | New | end use | 12,664 | 1.8% | 0.03 | 2 | \$4.9 | 61% | 1.20 |
| FE-Met Ed | Fan Equipment Upgrade | Other Non-Mfg | Fans | Early | end use | 12,664 | 35% | 0.53 | 10 | \$380 | 53% | 2.90 |
| FE-Met Ed | Fan Equipment Upgrade | Other Non-Mfg | Fans | New | end use | 12,664 | 35% | 0.53 | 10 | \$380 | 53% | 2.90 |
| FE-Met Ed | Fan Equipment Upgrade | Other Non-Mfg | Fans | ROB | end use | 12,664 | 35% | 0.53 | 10 | \$380 | 53% | 2.90 |
| FE-Met Ed | Fan System Optimization | Other Non-Mfg | Fans | Existing | end use | 12,664 | 7.3% | 0.11 | 10 | \$173 | 66% | 1.76 |
| FE-Met Ed | Fan System Optimization | Other Non-Mfg | Fans | New | end use | 12,664 | 7.3% | 0.11 | 10 | \$173 | 66% | 1.76 |
| FE-Met Ed | HE Motors | Other Non-Mfg | Fans | Early | end use | 12,664 | 2.0% | 0.03 | 15 | \$75 | 61% | 1.77 |
| FE-Met Ed | HE Motors | Other Non-Mfg | Fans | New | end use | 12,664 | 2.0% | 0.03 | 15 | \$75 | 61% | 1.77 |
| FE-Met Ed | HE Motors | Other Non-Mfg | Fans | ROB | end use | 12,664 | 2.0% | 0.03 | 15 | \$75 | 61% | 1.77 |
| FE-Met Ed | High Volume Low Speed Fans | Other Non-Mfg | Fans | Early | end use | 12,664 | 47% | 0.70 | 15 | \$9,520 | 53% | 0.38 |
| FE-Met Ed | High Volume Low Speed Fans | Other Non-Mfg | Fans | New | end use | 12,664 | 47% | 0.70 | 15 | \$9,520 | 53% | 0.38 |
| FE-Met Ed | High Volume Low Speed Fans | Other Non-Mfg | Fans | ROB | end use | 12,664 | 47% | 0.70 | 15 | \$9,520 | 53% | 0.38 |
| FE-Met Ed | Improved Controls - Fans | Other Non-Mfg | Fans | Existing | end use | 12,664 | 7.1% | 0.11 | 10 | \$49 | 69% | 3.62 |
| FE-Met Ed | Improved Controls - Fans | Other Non-Mfg | Fans | New | end use | 12,664 | 7.1% | 0.11 | 10 | \$49 | 69% | 3.62 |
| FE-Met Ed | Properly Sized Fans | Other Non-Mfg | Fans | Early | end use | 12,664 | 13% | 0.20 | 10 | \$259 | 32% | 2.00 |
| FE-Met Ed | Properly Sized Fans | Other Non-Mfg | Fans | New | end use | 12,664 | 13% | 0.20 | 10 | \$259 | 32% | 2.00 |
| FE-Met Ed | Properly Sized Fans | Other Non-Mfg | Fans | ROB | end use | 12,664 | 13% | 0.20 | 10 | \$259 | 32% | 2.00 |
| FE-Met Ed | Synchronous Belts | Other Non-Mfg | Fans | Early | end use | 12,664 | 1.2% | 0.02 | 10 | \$19 | 32% | 2.30 |
| FE-Met Ed | Synchronous Belts | Other Non-Mfg | Fans | New | end use | 12,664 | 1.2% | 0.02 | 10 | \$19 | 32% | 2.30 |
| FE-Met Ed | Synchronous Belts | Other Non-Mfg | Fans | ROB | end use | 12,664 | 1.2% | 0.02 | 10 | \$19 | 32% | 2.30 |
| FE-Met Ed | <65k BTU/hr 14 SEER Air Conditioner | Other Non-Mfg | HVAC | Early | unit (ton) | 43,242 | 9.2% | 1.03 | 15 | \$7,877 | 28% | 0.36 |
| FE-Met Ed | <65k BTU/hr 14 SEER Air Conditioner | Other Non-Mfg | HVAC | New | unit (ton) | 43,242 | 4.1% | 0.46 | 15 | \$1,908 | 28% | 0.64 |
| FE-Met Ed | <65k BTU/hr 14 SEER Air Conditioner | Other Non-Mfg | HVAC | ROB | unit (ton) | 43,242 | 4.1% | 0.46 | 15 | \$1,908 | 28% | 0.64 |
| FE-Met Ed | <65k BTU/hr 15 SEER Air Conditioner | Other Non-Mfg | HVAC | Early | unit (ton) | 43,242 | 12% | 1.39 | 15 | \$9,286 | 28% | 0.41 |
| FE-Met Ed | <65k BTU/hr 15 SEER Air Conditioner | Other Non-Mfg | HVAC | New | unit (ton) | 43,242 | 7.7% | 0.86 | 15 | \$4,020 | 28% | 0.57 |
| FE-Met Ed | <65k BTU/hr 15 SEER Air Conditioner | Other Non-Mfg | HVAC | ROB | unit (ton) | 43,242 | 7.7% | 0.86 | 15 | \$4,020 | 28% | 0.57 |
| FE-Met Ed | <65k BTU/hr 16 SEER Air Conditioner | Other Non-Mfg | HVAC | Early | unit (ton) | 43,242 | 15% | 1.71 | 15 | \$10,695 | 29% | 0.43 |
| FE-Met Ed | <65k BTU/hr 16 SEER Air Conditioner | Other Non-Mfg | HVAC | New | unit (ton) | 43,242 | 11% | 1.21 | 15 | \$6,131 | 29% | 0.53 |
| FE-Met Ed | <65k BTU/hr 16 SEER Air Conditioner | Other Non-Mfg | HVAC | ROB | unit (ton) | 43,242 | 11% | 1.21 | 15 | \$6,131 | 29% | 0.53 |
| FE-Met Ed | >760k min 10.2 EER Air Conditioner | Other Non-Mfg | HVAC | Early | unit (ton) | 43,242 | 2.1% | 0.24 | 15 | \$13,717 | 35% | 0.05 |
| FE-Met Ed | >760k min 10.2 EER Air Conditioner | Other Non-Mfg | HVAC | New | unit (ton) | 43,242 | 2.8% | 0.32 | 15 | \$1,240 | 35% | 0.68 |
| FE-Met Ed | >760k min 10.2 EER Air Conditioner | Other Non-Mfg | HVAC | ROB | unit (ton) | 43,242 | 2.8% | 0.32 | 15 | \$1,240 | 35% | 0.68 |
| FE-Met Ed | 135-240k min 12 EER Air Conditioner | Other Non-Mfg | HVAC | Early | unit (ton) | 43,242 | 10% | 1.17 | 15 | \$14,854 | 35% | 0.22 |
| FE-Met Ed | 135-240k min 12 EER Air Conditioner | Other Non-Mfg | HVAC | New | unit (ton) | 43,242 | 5.8% | 0.65 | 15 | \$1,754 | 35% | 0.95 |
| FE-Met Ed | 135-240k min 12 EER Air Conditioner | Other Non-Mfg | HVAC | ROB | unit (ton) | 43,242 | 5.8% | 0.65 | 15 | \$1,754 | 35% | 0.95 |
| FE-Met Ed | 240k-760k min 11 EER Air Conditioner | Other Non-Mfg | HVAC | Early | unit (ton) | 43,242 | 5.2% | 0.58 | 15 | \$13,726 | 35% | 0.12 |
| FE-Met Ed | 240k-760k min 11 EER Air Conditioner | Other Non-Mfg | HVAC | New | unit (ton) | 43,242 | 5.3% | 0.60 | 15 | \$1,471 | 35% | 1.04 |
| FE-Met Ed | 240k-760k min 11 EER Air Conditioner | Other Non-Mfg | HVAC | ROB | unit (ton) | 43,242 | 5.3% | 0.60 | 15 | \$1,471 | 35% | 1.04 |
| FE-Met Ed | 65k-135k BTU/hr 12 EER Air Conditioner | Other Non-Mfg | HVAC | Early | unit (ton) | 43,242 | 9.7% | 1.09 | 15 | \$15,209 | 35% | 0.20 |
| FE-Met Ed | 65k-135k BTU/hr 12 EER Air Conditioner | Other Non-Mfg | HVAC | New | unit (ton) | 43,242 | 3.8% | 0.43 | 15 | \$2,170 | 35% | 0.53 |
| FE-Met Ed | 65k-135k BTU/hr 12 EER Air Conditioner | Other Non-Mfg | HVAC | ROB | unit (ton) | 43,242 | 3.8% | 0.43 | 15 | \$2,170 | 35% | 0.53 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Other Non-Mfg | HVAC | Existing | building | 43,242 | 5.9% | 0.64 | 15 | \$131,016 | 71% | 0.01 |
| FE-Met Ed | Ceiling Insualtions (Going upto R 20) | Other Non-Mfg | HVAC | New | building | 43,242 | 3.7% | 0.40 | 15 | \$124,535 | 94% | 0.01 |
| FE-Met Ed | Chiller Tuneup/Diagnostics | Other Non-Mfg | HVAC | Existing | building | 43,242 | 8.0% | 1.27 | 10 | \$110,416 | 59% | 0.02 |
| FE-Met Ed | Chiller Tuneup/Diagnostics | Other Non-Mfg | HVAC | New | building | 43,242 | 8.0% | 1.27 | 10 | \$110,416 | 59% | 0.02 |
| FE-Met Ed | Cooling Tower Optimization | Other Non-Mfg | HVAC | Existing | building | 43,242 | 20% | 3.10 | 10 | \$265 | 14% | 5.42 |
| FE-Met Ed | Duct Insulation, Add R8 | Other Non-Mfg | HVAC | Existing | building | 43,242 | 1.5% | 0.14 | 15 | \$344 | 18% | 1.20 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---|---------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Duct Insulation, Add R8 | Other Non-Mfg | HVAC | New | building | 43,242 | 1.5% | 0.14 | 15 | \$344 | 9% | 1.20 |
| FE-Met Ed | Ductless Heat Pump | Other Non-Mfg | HVAC | Early | heat pump | 43,242 | 0.8% | 0.08 | 15 | \$3,434 | 83% | 0.07 |
| FE-Met Ed | Ductless Heat Pump | Other Non-Mfg | HVAC | New | heat pump | 43,242 | 0.4% | 0.04 | 15 | \$997 | 83% | 0.13 |
| FE-Met Ed | Ductless Heat Pump | Other Non-Mfg | HVAC | ROB | heat pump | 43,242 | 0.4% | 0.04 | 15 | \$997 | 83% | 0.13 |
| FE-Met Ed | DX Coil Cleaning | Other Non-Mfg | HVAC | Existing | building | 43,242 | 13% | 1.98 | 1 | \$414 | 73% | 0.52 |
| FE-Met Ed | DX Coil Cleaning | Other Non-Mfg | HVAC | New | building | 43,242 | 13% | 1.98 | 1 | \$414 | 73% | 0.52 |
| FE-Met Ed | Efficient Unit Heating System | Other Non-Mfg | HVAC | Early | heater | 43,242 | 6.9% | 0.02 | 15 | \$2,329 | 83% | 0.63 |
| FE-Met Ed | Efficient Unit Heating System | Other Non-Mfg | HVAC | New | heater | 43,242 | 4.0% | 0.01 | 15 | \$1,589 | 83% | 0.53 |
| FE-Met Ed | Efficient Unit Heating System | Other Non-Mfg | HVAC | ROB | heater | 43,242 | 4.0% | 0.01 | 15 | \$1,589 | 83% | 0.53 |
| FE-Met Ed | Ground Source Heat Pump (Closed Loop) | Other Non-Mfg | HVAC | Early | heat pump | 43,242 | 1.3% | 0.13 | 15 | \$7,131 | 19% | 0.05 |
| FE-Met Ed | Ground Source Heat Pump (Closed Loop) | Other Non-Mfg | HVAC | New | heat pump | 43,242 | 1.0% | 0.10 | 15 | \$2,816 | 19% | 0.11 |
| FE-Met Ed | Ground Source Heat Pump (Closed Loop) | Other Non-Mfg | HVAC | ROB | heat pump | 43,242 | 1.0% | 0.10 | 15 | \$2,816 | 19% | 0.11 |
| FE-Met Ed | Ground Source Heat Pump (Open Loop) | Other Non-Mfg | HVAC | Early | heat pump | 43,242 | 1.3% | 0.13 | 15 | \$4,567 | 19% | 0.08 |
| FE-Met Ed | Ground Source Heat Pump (Open Loop) | Other Non-Mfg | HVAC | New | heat pump | 43,242 | 1.0% | 0.10 | 15 | \$97 | 19% | 2.35 |
| FE-Met Ed | Ground Source Heat Pump (Open Loop) | Other Non-Mfg | HVAC | ROB | heat pump | 43,242 | 1.0% | 0.10 | 15 | \$97 | 19% | 2.35 |
| FE-Met Ed | HE Air Cooled Chiller, 100 Tons | Other Non-Mfg | HVAC | Early | unit (ton) | 43,242 | 1.5% | 0.14 | 15 | \$50,838 | 89% | 0.01 |
| FE-Met Ed | HE Air Cooled Chiller, 100 Tons | Other Non-Mfg | HVAC | New | unit (ton) | 43,242 | 0.4% | 0.04 | 15 | \$7,406 | 89% | 0.02 |
| FE-Met Ed | HE Air Cooled Chiller, 100 Tons | Other Non-Mfg | HVAC | ROB | unit (ton) | 43,242 | 0.4% | 0.04 | 15 | \$7,406 | 89% | 0.02 |
| FE-Met Ed | HE Air Cooled Chiller, 150 Tons | Other Non-Mfg | HVAC | Early | unit (ton) | 43,242 | 1.5% | 0.14 | 15 | \$43,912 | 89% | 0.01 |
| FE-Met Ed | HE Air Cooled Chiller, 150 Tons | Other Non-Mfg | HVAC | New | unit (ton) | 43,242 | 0.3% | 0.03 | 15 | \$3,637 | 89% | 0.03 |
| FE-Met Ed | HE Air Cooled Chiller, 150 Tons | Other Non-Mfg | HVAC | ROB | unit (ton) | 43,242 | 0.3% | 0.03 | 15 | \$3,637 | 89% | 0.03 |
| FE-Met Ed | HE Air Source Heat Pump (12 EER, 3.6 COP) | Other Non-Mfg | HVAC | Early | heat pump | 43,242 | 1.4% | 0.13 | 12 | \$1,862 | 81% | 0.17 |
| FE-Met Ed | HE Air Source Heat Pump (12 EER, 3.6 COP) | Other Non-Mfg | HVAC | Early | heat pump | 43,242 | 1.1% | 0.11 | 12 | \$1,360 | 81% | 0.20 |
| FE-Met Ed | HE Air Source Heat Pump (12 EER, 3.6 COP) | Other Non-Mfg | HVAC | New | heat pump | 43,242 | 1.0% | 0.10 | 12 | \$831 | 81% | 0.29 |
| FE-Met Ed | HE Air Source Heat Pump (12 EER, 3.6 COP) | Other Non-Mfg | HVAC | New | heat pump | 43,242 | 0.8% | 0.07 | 12 | \$291 | 81% | 0.59 |
| FE-Met Ed | HE Air Source Heat Pump (12 EER, 3.6 COP) | Other Non-Mfg | HVAC | ROB | heat pump | 43,242 | 1.0% | 0.10 | 12 | \$831 | 81% | 0.29 |
| FE-Met Ed | HE Air Source Heat Pump (12 EER, 3.6 COP) | Other Non-Mfg | HVAC | ROB | heat pump | 43,242 | 0.8% | 0.07 | 12 | \$291 | 81% | 0.59 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 175 Tons | Other Non-Mfg | HVAC | Early | unit (ton) | 43,242 | 1.6% | 0.16 | 15 | \$4,034 | 89% | 0.12 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 175 Tons | Other Non-Mfg | HVAC | New | unit (ton) | 43,242 | 0.9% | 0.09 | 15 | \$1,342 | 89% | 0.21 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 175 Tons | Other Non-Mfg | HVAC | ROB | unit (ton) | 43,242 | 0.9% | 0.09 | 15 | \$1,342 | 89% | 0.21 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 300 Tons | Other Non-Mfg | HVAC | Early | unit (ton) | 43,242 | 1.4% | 0.14 | 15 | \$3,939 | 89% | 0.11 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 300 Tons | Other Non-Mfg | HVAC | New | unit (ton) | 43,242 | 1.0% | 0.10 | 15 | \$769 | 89% | 0.38 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 300 Tons | Other Non-Mfg | HVAC | ROB | unit (ton) | 43,242 | 1.4% | 0.14 | 15 | \$707 | 89% | 0.58 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 500 Tons | Other Non-Mfg | HVAC | Early | unit (ton) | 43,242 | 1.4% | 0.14 | 15 | \$4,663 | 89% | 0.09 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 500 Tons | Other Non-Mfg | HVAC | New | unit (ton) | 43,242 | 0.9% | 0.09 | 15 | \$1,963 | 89% | 0.14 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 500 Tons | Other Non-Mfg | HVAC | ROB | unit (ton) | 43,242 | 1.4% | 0.14 | 15 | \$1,777 | 89% | 0.24 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 600 Tons | Other Non-Mfg | HVAC | Early | unit (ton) | 43,242 | 1.4% | 0.14 | 15 | \$4,491 | 89% | 0.10 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 600 Tons | Other Non-Mfg | HVAC | New | unit (ton) | 43,242 | 0.9% | 0.09 | 15 | \$1,706 | 89% | 0.16 |
| FE-Met Ed | HE Water Cooled Centrifugal Chiller, 600 Tons | Other Non-Mfg | HVAC | ROB | unit (ton) | 43,242 | 1.4% | 0.14 | 15 | \$1,544 | 89% | 0.27 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 100 Tons | Other Non-Mfg | HVAC | Early | unit (ton) | 43,242 | 1.8% | 0.18 | 15 | \$4,840 | 89% | 0.11 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 100 Tons | Other Non-Mfg | HVAC | New | unit (ton) | 43,242 | 0.6% | 0.05 | 15 | \$2,997 | 89% | 0.06 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 100 Tons | Other Non-Mfg | HVAC | ROB | unit (ton) | 43,242 | 1.8% | 0.18 | 15 | \$2,327 | 89% | 0.24 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 175 Tons | Other Non-Mfg | HVAC | Early | unit (ton) | 43,242 | 2.2% | 0.21 | 15 | \$4,451 | 89% | 0.15 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 175 Tons | Other Non-Mfg | HVAC | New | unit (ton) | 43,242 | 0.8% | 0.08 | 15 | \$1,786 | 89% | 0.13 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 175 Tons | Other Non-Mfg | HVAC | ROB | unit (ton) | 43,242 | 0.8% | 0.08 | 15 | \$1,786 | 89% | 0.13 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 300 Tons | Other Non-Mfg | HVAC | Early | unit (ton) | 43,242 | 2.4% | 0.24 | 15 | \$3,773 | 89% | 0.19 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 300 Tons | Other Non-Mfg | HVAC | New | unit (ton) | 43,242 | 0.9% | 0.09 | 15 | \$949 | 89% | 0.29 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 300 Tons | Other Non-Mfg | HVAC | ROB | unit (ton) | 43,242 | 2.4% | 0.24 | 15 | \$677 | 89% | 1.00 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 50 Tons | Other Non-Mfg | HVAC | Early | unit (ton) | 43,242 | 1.8% | 0.18 | 15 | \$3,735 | 89% | 0.15 |
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 50 Tons | Other Non-Mfg | HVAC | New | unit (ton) | 43,242 | 0.7% | 0.07 | 15 | \$1,046 | 89% | 0.20 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|--|---------------|----------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | HE Water Cooled Reciprocating Chiller, 50 Tons | Other Non-Mfg | HVAC | ROB | unit (ton) | 43,242 | 1.8% | 0.18 | 15 | \$829 | 89% | 0.64 |
| FE-Met Ed | Heat Reclaimer | Other Non-Mfg | HVAC | Existing | end use | 43,242 | 42% | 2.61 | 15 | \$2,474 | 15% | 3.19 |
| FE-Met Ed | Heat Reclaimer | Other Non-Mfg | HVAC | New | end use | 43,242 | 42% | 2.61 | 15 | \$2,474 | 15% | 3.19 |
| FE-Met Ed | Heat Recovery Ventilators | Other Non-Mfg | HVAC | Existing | end use | 43,242 | 4.1% | 0.26 | 10 | \$634 | 93% | 1.10 |
| FE-Met Ed | Heat Recovery Ventilators | Other Non-Mfg | HVAC | New | end use | 43,242 | 4.1% | 0.26 | 10 | \$634 | 93% | 1.10 |
| FE-Met Ed | HVAC Diagnostic/Air Conditioner Tune Up | Other Non-Mfg | HVAC | Existing | building | 43,242 | 2.9% | 0.25 | 5 | \$459 | 55% | 0.63 |
| FE-Met Ed | HVAC Diagnostic/Air Conditioner Tune Up | Other Non-Mfg | HVAC | New | building | 43,242 | 0.6% | 0.10 | 5 | \$275 | 51% | 0.30 |
| FE-Met Ed | Improved Controls - HVAC | Other Non-Mfg | HVAC | Existing | end use | 43,242 | 21% | 1.30 | 10 | \$455 | 76% | 3.87 |
| FE-Met Ed | Improved Controls - HVAC | Other Non-Mfg | HVAC | New | end use | 43,242 | 21% | 1.30 | 10 | \$455 | 76% | 3.87 |
| FE-Met Ed | Infrared Film for Greenhouses | Other Non-Mfg | HVAC | Existing | end use | 43,242 | 11% | 0.69 | 4 | \$1,004 | 5% | 0.76 |
| FE-Met Ed | Infrared Film for Greenhouses | Other Non-Mfg | HVAC | New | end use | 43,242 | 11% | 0.69 | 4 | \$1,004 | 5% | 0.76 |
| FE-Met Ed | Outside Air Economizer | Other Non-Mfg | HVAC | Existing | building | 43,242 | 1.1% | 0.12 | 10 | \$158,879 | 82% | 0.00 |
| FE-Met Ed | Outside Air Economizer | Other Non-Mfg | HVAC | New | building | 43,242 | 1.1% | 0.12 | 10 | \$158,879 | 82% | 0.00 |
| FE-Met Ed | Programmable Ventilation Controller | Other Non-Mfg | HVAC | Existing | end use | 43,242 | 0.1% | 0.01 | 10 | \$4.9 | 80% | 2.55 |
| FE-Met Ed | Programmable Ventilation Controller | Other Non-Mfg | HVAC | New | end use | 43,242 | 0.1% | 0.01 | 10 | \$4.9 | 80% | 2.57 |
| FE-Met Ed | Recommissioning | Other Non-Mfg | HVAC | Existing | end use | 43,242 | 5.0% | 0.31 | 10 | \$59 | 88% | 4.78 |
| FE-Met Ed | Recommissioning | Other Non-Mfg | HVAC | New | end use | 43,242 | 5.0% | 0.31 | 10 | \$59 | 88% | 4.78 |
| FE-Met Ed | Room AC (with louvered sides) | Other Non-Mfg | HVAC | Early | unit (ton) | 43,242 | 7.7% | 0.75 | 9 | \$3,389 | 78% | 0.43 |
| FE-Met Ed | Room AC (with louvered sides) | Other Non-Mfg | HVAC | New | unit (ton) | 43,242 | 2.6% | 0.25 | 9 | \$186 | 78% | 1.97 |
| FE-Met Ed | Room AC (with louvered sides) | Other Non-Mfg | HVAC | ROB | unit (ton) | 43,242 | 2.6% | 0.25 | 9 | \$186 | 78% | 1.97 |
| FE-Met Ed | Variable Refrigerant Flow Heat Pump | Other Non-Mfg | HVAC | New | measure | 43,242 | 0.1% | 0.01 | 13 | \$320 | 43% | 0.09 |
| FE-Met Ed | Variable Refrigerant Flow Heat Pump | Other Non-Mfg | HVAC | ROB | measure | 43,242 | 0.1% | 0.01 | 13 | \$320 | 43% | 0.09 |
| FE-Met Ed | VFD on Cooling Tower Fan | Other Non-Mfg | HVAC | Early | motor | 43,242 | 21% | 2.72 | 15 | \$1,992 | 15% | 2.65 |
| FE-Met Ed | VFD on Cooling Tower Fan | Other Non-Mfg | HVAC | New | motor | 43,242 | 22% | 2.72 | 15 | \$2,030 | 15% | 2.63 |
| FE-Met Ed | VFD on Cooling Tower Fan | Other Non-Mfg | HVAC | ROB | motor | 43,242 | 22% | 2.72 | 15 | \$2,030 | 15% | 2.63 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Other Non-Mfg | HVAC | Existing | building | 43,242 | 19% | 2.07 | 15 | \$30,761 | 26% | 0.19 |
| FE-Met Ed | Wall Insualtions (Going upto R 21) | Other Non-Mfg | HVAC | New | building | 43,242 | 0.6% | 0.07 | 15 | \$23,595 | 94% | 0.01 |
| FE-Met Ed | Water Source Heat Pump (4 ton) | Other Non-Mfg | HVAC | Early | heat pump | 43,242 | 1.5% | 0.15 | 15 | \$7,385 | 28% | 0.06 |
| FE-Met Ed | Water Source Heat Pump (4 ton) | Other Non-Mfg | HVAC | New | heat pump | 43,242 | 1.1% | 0.11 | 15 | \$3,599 | 28% | 0.09 |
| FE-Met Ed | Water Source Heat Pump (4 ton) | Other Non-Mfg | HVAC | ROB | heat pump | 43,242 | 1.1% | 0.11 | 15 | \$3,599 | 28% | 0.09 |
| FE-Met Ed | Efficient Metal Halide (High Bay) | Other Non-Mfg | Lighting | Early | end use | 24,423 | 42% | 0.00 | 9 | \$3,816 | 53% | 0.81 |
| FE-Met Ed | Efficient Metal Halide (High Bay) | Other Non-Mfg | Lighting | New | end use | 24,423 | 41% | 0.00 | 13 | \$101,938 | 61% | 0.05 |
| FE-Met Ed | Efficient Metal Halide (High Bay) | Other Non-Mfg | Lighting | ROB | end use | 24,423 | 41% | 0.00 | 13 | \$77,906 | 61% | 0.06 |
| FE-Met Ed | Induction (High Bay) | Other Non-Mfg | Lighting | Early | end use | 24,423 | 94% | 0.00 | 13 | \$11,355 | 95% | 0.87 |
| FE-Met Ed | Induction (High Bay) | Other Non-Mfg | Lighting | New | end use | 24,423 | 94% | 0.00 | 13 | \$10,632 | 95% | 0.92 |
| FE-Met Ed | Induction (High Bay) | Other Non-Mfg | Lighting | ROB | end use | 24,423 | 94% | 0.00 | 13 | \$8,080 | 95% | 1.16 |
| FE-Met Ed | LED (High Bay) | Other Non-Mfg | Lighting | Early | end use | 24,423 | 69% | 0.00 | 14 | \$13,367 | 95% | 0.60 |
| FE-Met Ed | LED (High Bay) | Other Non-Mfg | Lighting | New | end use | 24,423 | 55% | 0.00 | 14 | \$14,837 | 95% | 0.44 |
| FE-Met Ed | LED (High Bay) | Other Non-Mfg | Lighting | ROB | end use | 24,423 | 59% | 0.00 | 14 | \$9,776 | 95% | 0.69 |
| FE-Met Ed | Lighting Controls | Other Non-Mfg | Lighting | Existing | end use | 24,423 | 20% | 0.00 | 6 | \$91,560 | 16% | 0.01 |
| FE-Met Ed | Lighting Controls | Other Non-Mfg | Lighting | New | end use | 24,423 | 12% | 0.00 | 10 | \$121,804 | 11% | 0.01 |
| FE-Met Ed | Linear Fluorescent (High Bay) | Other Non-Mfg | Lighting | Early | end use | 24,423 | 17% | 0.00 | 14 | \$2,795 | 98% | 0.69 |
| FE-Met Ed | Linear Fluorescent (High Bay) | Other Non-Mfg | Lighting | New | end use | 24,423 | 13% | 0.00 | 14 | \$886 | 91% | 1.47 |
| FE-Met Ed | Linear Fluorescent (High Bay) | Other Non-Mfg | Lighting | ROB | end use | 24,423 | 13% | 0.00 | 14 | \$567 | 91% | 2.12 |
| FE-Met Ed | Metal Halide (High Bay) | Other Non-Mfg | Lighting | Early | end use | 24,423 | 62% | 0.00 | 13 | \$16,789 | 38% | 0.42 |
| FE-Met Ed | Metal Halide (High Bay) | Other Non-Mfg | Lighting | New | end use | 24,423 | 73% | 0.00 | 13 | \$4,014 | 38% | 1.65 |
| FE-Met Ed | Metal Halide (High Bay) | Other Non-Mfg | Lighting | ROB | end use | 24,423 | 73% | 0.00 | 13 | \$3,051 | 38% | 2.02 |
| FE-Met Ed | Screw Base CFL | Other Non-Mfg | Lighting | Early | end use | 24,423 | 80% | 0.00 | 7 | \$6,635 | 17% | 0.70 |
| FE-Met Ed | Screw Base CFL | Other Non-Mfg | Lighting | New | end use | 24,423 | 73% | 0.00 | 9 | \$5,423 | 18% | 0.95 |
| FE-Met Ed | Screw Base CFL | Other Non-Mfg | Lighting | ROB | end use | 24,423 | 73% | 0.00 | 9 | \$4,539 | 17% | 1.10 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|---------------------------------------|---------------|----------|----------|---------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Screw Base LED | Other Non-Mfg | Lighting | Early | end use | 24,423 | 76% | 0.00 | 9 | \$4,072 | 21% | 1.28 |
| FE-Met Ed | Screw Base LED | Other Non-Mfg | Lighting | New | end use | 24,423 | 77% | 0.00 | 9 | \$2,268 | 20% | 1.95 |
| FE-Met Ed | Screw Base LED | Other Non-Mfg | Lighting | ROB | end use | 24,423 | 77% | 0.00 | 9 | \$1,801 | 21% | 2.25 |
| FE-Met Ed | T8 High Performance Linear Florescent | Other Non-Mfg | Lighting | Early | end use | 24,423 | 36% | 0.00 | 14 | \$2,337 | 71% | 1.56 |
| FE-Met Ed | T8 High Performance Linear Florescent | Other Non-Mfg | Lighting | New | end use | 24,423 | 26% | 0.00 | 14 | \$836 | 76% | 2.63 |
| FE-Met Ed | T8 High Performance Linear Florescent | Other Non-Mfg | Lighting | ROB | end use | 24,423 | 26% | 0.00 | 14 | \$636 | 76% | 3.11 |
| FE-Met Ed | Automatic Milker Takeoff | Other Non-Mfg | Motors | Early | end use | 3,998 | 3.0% | 0.02 | 15 | \$73 | 11% | 0.94 |
| FE-Met Ed | Automatic Milker Takeoff | Other Non-Mfg | Motors | New | end use | 3,998 | 3.0% | 0.02 | 15 | \$73 | 11% | 0.94 |
| FE-Met Ed | Automatic Milker Takeoff | Other Non-Mfg | Motors | ROB | end use | 3,998 | 3.0% | 0.02 | 15 | \$73 | 11% | 0.94 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 1-15 HP | Other Non-Mfg | Motors | Early | end use | 3,998 | 0.9% | 0.01 | 15 | \$61 | 68% | 0.36 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 1-15 HP | Other Non-Mfg | Motors | New | end use | 3,998 | 0.9% | 0.01 | 15 | \$61 | 68% | 0.36 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 1-15 HP | Other Non-Mfg | Motors | ROB | end use | 3,998 | 0.9% | 0.01 | 15 | \$61 | 68% | 0.36 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 125-200 HP | Other Non-Mfg | Motors | Early | end use | 3,998 | 0.7% | 0.00 | 15 | \$37 | 61% | 0.48 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 125-200 HP | Other Non-Mfg | Motors | New | end use | 3,998 | 0.7% | 0.00 | 15 | \$37 | 61% | 0.48 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 125-200 HP | Other Non-Mfg | Motors | ROB | end use | 3,998 | 0.7% | 0.00 | 15 | \$37 | 61% | 0.48 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 20-40 HP | Other Non-Mfg | Motors | Early | end use | 3,998 | 0.4% | 0.00 | 15 | \$14 | 68% | 0.73 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 20-40 HP | Other Non-Mfg | Motors | New | end use | 3,998 | 0.4% | 0.00 | 15 | \$14 | 68% | 0.73 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 20-40 HP | Other Non-Mfg | Motors | ROB | end use | 3,998 | 0.4% | 0.00 | 15 | \$14 | 68% | 0.73 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 250-500 HP | Other Non-Mfg | Motors | Early | end use | 3,998 | 0.4% | 0.00 | 15 | \$4.7 | 61% | 1.72 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 250-500 HP | Other Non-Mfg | Motors | New | end use | 3,998 | 0.4% | 0.00 | 15 | \$4.7 | 61% | 1.72 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 250-500 HP | Other Non-Mfg | Motors | ROB | end use | 3,998 | 0.4% | 0.00 | 15 | \$4.7 | 61% | 1.72 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 50-100 HP | Other Non-Mfg | Motors | Early | end use | 3,998 | 0.9% | 0.01 | 15 | \$7.0 | 39% | 2.43 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 50-100 HP | Other Non-Mfg | Motors | New | end use | 3,998 | 0.9% | 0.01 | 15 | \$7.0 | 39% | 2.43 |
| FE-Met Ed | Enhanced (Ultra-PE) Motor 50-100 HP | Other Non-Mfg | Motors | ROB | end use | 3,998 | 0.9% | 0.01 | 15 | \$7.0 | 39% | 2.43 |
| FE-Met Ed | Facility Energy Management | Other Non-Mfg | Motors | Existing | end use | 3,998 | 1.9% | 0.01 | 2 | \$1.5 | 64% | 1.21 |
| FE-Met Ed | Facility Energy Management | Other Non-Mfg | Motors | New | end use | 3,998 | 1.8% | 0.01 | 2 | \$1.5 | 64% | 1.20 |
| FE-Met Ed | HE Motors | Other Non-Mfg | Motors | Early | end use | 3,998 | 2.0% | 0.01 | 15 | \$24 | 32% | 1.76 |
| FE-Met Ed | HE Motors | Other Non-Mfg | Motors | New | end use | 3,998 | 2.0% | 0.01 | 15 | \$24 | 32% | 1.76 |
| FE-Met Ed | HE Motors | Other Non-Mfg | Motors | ROB | end use | 3,998 | 2.0% | 0.01 | 15 | \$24 | 32% | 1.76 |
| FE-Met Ed | High-Efficiency Ventilation System | Other Non-Mfg | Motors | Early | end use | 3,998 | 5.7% | 0.03 | 10 | \$250 | 61% | 0.39 |
| FE-Met Ed | High-Efficiency Ventilation System | Other Non-Mfg | Motors | New | end use | 3,998 | 5.7% | 0.03 | 10 | \$250 | 61% | 0.39 |
| FE-Met Ed | High-Efficiency Ventilation System | Other Non-Mfg | Motors | ROB | end use | 3,998 | 5.7% | 0.03 | 10 | \$250 | 61% | 0.39 |
| FE-Met Ed | Improved Controls - Motors | Other Non-Mfg | Motors | Existing | end use | 3,998 | 4.0% | 0.02 | 10 | \$17 | 61% | 2.51 |
| FE-Met Ed | Improved Controls - Motors | Other Non-Mfg | Motors | New | end use | 3,998 | 4.0% | 0.02 | 10 | \$17 | 61% | 2.51 |
| FE-Met Ed | Motor Management Plan | Other Non-Mfg | Motors | Existing | end use | 3,998 | 2.9% | 0.02 | 10 | \$8.2 | 61% | 3.22 |
| FE-Met Ed | Motor Management Plan | Other Non-Mfg | Motors | New | end use | 3,998 | 2.9% | 0.02 | 10 | \$8.2 | 61% | 3.21 |
| FE-Met Ed | Motors Other | Other Non-Mfg | Motors | Existing | end use | 3,998 | 1.1% | 0.01 | 15 | \$0.8 | 69% | 7.20 |
| FE-Met Ed | Motors Other | Other Non-Mfg | Motors | New | end use | 3,998 | 1.1% | 0.01 | 15 | \$0.8 | 69% | 7.20 |
| FE-Met Ed | Motors: Rewind 101-200 HP | Other Non-Mfg | Motors | Existing | end use | 3,998 | 0.6% | 0.00 | 10 | \$5.1 | 22% | 1.52 |
| FE-Met Ed | Motors: Rewind 101-200 HP | Other Non-Mfg | Motors | New | end use | 3,998 | 0.6% | 0.00 | 10 | \$5.1 | 22% | 1.53 |
| FE-Met Ed | Motors: Rewind 201-500 HP | Other Non-Mfg | Motors | Existing | end use | 3,998 | 0.5% | 0.00 | 8 | \$3.2 | 22% | 1.76 |
| FE-Met Ed | Motors: Rewind 201-500 HP | Other Non-Mfg | Motors | New | end use | 3,998 | 0.6% | 0.00 | 8 | \$3.2 | 22% | 1.77 |
| FE-Met Ed | Motors: Rewind 20-50 HP | Other Non-Mfg | Motors | Existing | end use | 3,998 | 1.0% | 0.01 | 11 | \$15 | 35% | 1.15 |
| FE-Met Ed | Motors: Rewind 20-50 HP | Other Non-Mfg | Motors | New | end use | 3,998 | 1.0% | 0.01 | 11 | \$15 | 35% | 1.16 |
| FE-Met Ed | Motors: Rewind 500+ HP | Other Non-Mfg | Motors | Existing | end use | 3,998 | 0.6% | 0.00 | 8 | \$2.3 | 10% | 2.22 |
| FE-Met Ed | Motors: Rewind 500+ HP | Other Non-Mfg | Motors | New | end use | 3,998 | 0.6% | 0.00 | 8 | \$2.3 | 10% | 2.23 |
| FE-Met Ed | Motors: Rewind 51-100 HP | Other Non-Mfg | Motors | Existing | end use | 3,998 | 0.6% | 0.00 | 9 | \$7.3 | 35% | 1.12 |
| FE-Met Ed | Motors: Rewind 51-100 HP | Other Non-Mfg | Motors | New | end use | 3,998 | 0.6% | 0.00 | 9 | \$7.3 | 35% | 1.12 |
| FE-Met Ed | SIS | Other Non-Mfg | Motors | Existing | end use | 3,998 | 7.5% | 0.04 | 7 | \$252 | 11% | 0.37 |
| FE-Met Ed | SIS | Other Non-Mfg | Motors | New | end use | 3,998 | 7.5% | 0.04 | 7 | \$252 | 11% | 0.37 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|--|---------------|------------------------|----------|---------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Switch from Belt drive to Direct Drive | Other Non-Mfg | Motors | Early | end use | 3,998 | 7.5% | 0.04 | 12 | \$64 | 25% | 1.84 |
| FE-Met Ed | Switch from Belt drive to Direct Drive | Other Non-Mfg | Motors | New | end use | 3,998 | 7.5% | 0.04 | 12 | \$64 | 25% | 1.84 |
| FE-Met Ed | Switch from Belt drive to Direct Drive | Other Non-Mfg | Motors | ROB | end use | 3,998 | 7.5% | 0.04 | 12 | \$64 | 25% | 1.84 |
| FE-Met Ed | Synchronous Belts | Other Non-Mfg | Motors | Early | end use | 3,998 | 1.2% | 0.01 | 10 | \$5.9 | 25% | 2.30 |
| FE-Met Ed | Synchronous Belts | Other Non-Mfg | Motors | New | end use | 3,998 | 1.2% | 0.01 | 10 | \$5.9 | 25% | 2.30 |
| FE-Met Ed | Synchronous Belts | Other Non-Mfg | Motors | ROB | end use | 3,998 | 1.2% | 0.01 | 10 | \$5.9 | 25% | 2.30 |
| FE-Met Ed | Variable Speed Drives for Dairy Vacuum Pumps | Other Non-Mfg | Motors | Early | end use | 3,998 | 37% | 0.21 | 15 | \$200 | 7% | 3.09 |
| FE-Met Ed | Variable Speed Drives for Dairy Vacuum Pumps | Other Non-Mfg | Motors | New | end use | 3,998 | 37% | 0.21 | 15 | \$200 | 7% | 3.09 |
| FE-Met Ed | Variable Speed Drives for Dairy Vacuum Pumps | Other Non-Mfg | Motors | ROB | end use | 3,998 | 37% | 0.21 | 15 | \$200 | 7% | 3.09 |
| FE-Met Ed | VFDs on Small Milking Machines | Other Non-Mfg | Motors | Early | end use | 3,998 | 3.2% | 0.02 | 15 | \$85 | 7% | 0.86 |
| FE-Met Ed | VFDs on Small Milking Machines | Other Non-Mfg | Motors | New | end use | 3,998 | 3.2% | 0.02 | 15 | \$85 | 7% | 0.86 |
| FE-Met Ed | VFDs on Small Milking Machines | Other Non-Mfg | Motors | ROB | end use | 3,998 | 3.2% | 0.02 | 15 | \$85 | 7% | 0.86 |
| FE-Met Ed | Wood: Replace Pneumatic Conveyor | Other Non-Mfg | Motors | Early | end use | 3,998 | 29% | 0.17 | 10 | \$17 | 11% | 5.34 |
| FE-Met Ed | Wood: Replace Pneumatic Conveyor | Other Non-Mfg | Motors | New | end use | 3,998 | 29% | 0.17 | 10 | \$17 | 11% | 5.34 |
| FE-Met Ed | Wood: Replace Pneumatic Conveyor | Other Non-Mfg | Motors | ROB | end use | 3,998 | 29% | 0.17 | 10 | \$17 | 11% | 5.34 |
| FE-Met Ed | Bldg Improvements | Other Non-Mfg | Other | Existing | end use | 7,683 | 16% | 0.15 | 15 | \$168 | 72% | 3.03 |
| FE-Met Ed | Bldg Improvements | Other Non-Mfg | Other | New | end use | 7,683 | 16% | 0.15 | 15 | \$168 | 72% | 3.03 |
| FE-Met Ed | Block Heater Timer | Other Non-Mfg | Other | Existing | end use | 7,683 | 2.5% | 0.02 | 10 | \$7.5 | 40% | 4.03 |
| FE-Met Ed | Block Heater Timer | Other Non-Mfg | Other | New | end use | 7,683 | 2.5% | 0.02 | 10 | \$7.5 | 40% | 4.03 |
| FE-Met Ed | Energy Project Management | Other Non-Mfg | Other | Existing | end use | 7,683 | 29% | 0.27 | 11 | \$274 | 63% | 2.45 |
| FE-Met Ed | Energy Project Management | Other Non-Mfg | Other | New | end use | 7,683 | 29% | 0.27 | 11 | \$274 | 63% | 2.45 |
| FE-Met Ed | Facility Energy Management | Other Non-Mfg | Other | Existing | end use | 7,683 | 1.9% | 0.02 | 2 | \$3.0 | 76% | 1.18 |
| FE-Met Ed | Facility Energy Management | Other Non-Mfg | Other | New | end use | 7,683 | 1.8% | 0.02 | 2 | \$3.0 | 76% | 1.17 |
| FE-Met Ed | Grain bin aeration control systems | Other Non-Mfg | Other | Existing | end use | 7,683 | 2.3% | 0.02 | 15 | \$23 | 24% | 3.05 |
| FE-Met Ed | Grain bin aeration control systems | Other Non-Mfg | Other | New | end use | 7,683 | 2.3% | 0.02 | 15 | \$23 | 24% | 3.05 |
| FE-Met Ed | Greenhouse Heat Curtain | Other Non-Mfg | Other | Existing | end use | 7,683 | 17% | 0.15 | 5 | \$59 | 5% | 2.12 |
| FE-Met Ed | Greenhouse Heat Curtain | Other Non-Mfg | Other | New | end use | 7,683 | 17% | 0.15 | 5 | \$59 | 5% | 2.12 |
| FE-Met Ed | HE Stock tank | Other Non-Mfg | Other | Early | end use | 7,683 | 3.8% | 0.03 | 10 | \$95 | 14% | 1.08 |
| FE-Met Ed | HE Stock tank | Other Non-Mfg | Other | New | end use | 7,683 | 3.8% | 0.03 | 10 | \$95 | 14% | 1.08 |
| FE-Met Ed | HE Stock tank | Other Non-Mfg | Other | ROB | end use | 7,683 | 3.8% | 0.03 | 10 | \$95 | 14% | 1.08 |
| FE-Met Ed | Integrated Plant Energy Management | Other Non-Mfg | Other | Existing | end use | 7,683 | 50% | 0.46 | 11 | \$757 | 48% | 1.78 |
| FE-Met Ed | Integrated Plant Energy Management | Other Non-Mfg | Other | New | end use | 7,683 | 50% | 0.46 | 11 | \$757 | 48% | 1.78 |
| FE-Met Ed | Livestock Waterers | Other Non-Mfg | Other | Early | end use | 7,683 | 11% | 0.10 | 10 | \$227 | 14% | 1.31 |
| FE-Met Ed | Livestock Waterers | Other Non-Mfg | Other | New | end use | 7,683 | 11% | 0.10 | 10 | \$227 | 14% | 1.31 |
| FE-Met Ed | Livestock Waterers | Other Non-Mfg | Other | ROB | end use | 7,683 | 11% | 0.10 | 10 | \$227 | 14% | 1.31 |
| FE-Met Ed | Plant Energy Management | Other Non-Mfg | Other | Existing | end use | 7,683 | 12% | 0.11 | 10 | \$19 | 55% | 4.84 |
| FE-Met Ed | Plant Energy Management | Other Non-Mfg | Other | New | end use | 7,683 | 12% | 0.11 | 10 | \$19 | 55% | 4.84 |
| FE-Met Ed | Transformers | Other Non-Mfg | Other | Early | end use | 7,683 | 1.6% | 0.01 | 15 | \$25 | 34% | 2.27 |
| FE-Met Ed | Transformers | Other Non-Mfg | Other | New | end use | 7,683 | 1.6% | 0.01 | 15 | \$25 | 34% | 2.27 |
| FE-Met Ed | Transformers | Other Non-Mfg | Other | ROB | end use | 7,683 | 1.6% | 0.01 | 15 | \$25 | 34% | 2.27 |
| FE-Met Ed | Air Compressor Demand Reduction | Other Non-Mfg | Process Air Compressor | Existing | end use | 332 | 26% | 0.01 | 10 | \$5.0 | 40% | 3.47 |
| FE-Met Ed | Air Compressor Demand Reduction | Other Non-Mfg | Process Air Compressor | New | end use | 332 | 26% | 0.01 | 10 | \$5.0 | 40% | 3.47 |
| FE-Met Ed | Air Compressor Equipment | Other Non-Mfg | Process Air Compressor | Early | end use | 332 | 39% | 0.02 | 10 | \$6.0 | 56% | 3.81 |
| FE-Met Ed | Air Compressor Equipment | Other Non-Mfg | Process Air Compressor | New | end use | 332 | 39% | 0.02 | 10 | \$6.0 | 56% | 3.81 |
| FE-Met Ed | Air Compressor Equipment | Other Non-Mfg | Process Air Compressor | ROB | end use | 332 | 39% | 0.02 | 10 | \$6.0 | 56% | 3.81 |
| FE-Met Ed | Air Compressor Optimization | Other Non-Mfg | Process Air Compressor | Existing | end use | 332 | 39% | 0.02 | 10 | \$14 | 42% | 2.47 |
| FE-Met Ed | Air Compressor Optimization | Other Non-Mfg | Process Air Compressor | New | end use | 332 | 39% | 0.02 | 10 | \$14 | 42% | 2.47 |
| FE-Met Ed | Facility Energy Management | Other Non-Mfg | Process Air Compressor | Existing | end use | 332 | 1.8% | 0.00 | 2 | \$0.1 | 50% | 1.19 |
| FE-Met Ed | Facility Energy Management | Other Non-Mfg | Process Air Compressor | New | end use | 332 | 1.9% | 0.00 | 2 | \$0.1 | 50% | 1.19 |
| FE-Met Ed | HE Compressor motors | Other Non-Mfg | Process Air Compressor | Early | end use | 332 | 1.1% | 0.00 | 15 | \$1.2 | 56% | 1.52 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----------|-------------------------------------|---------------|------------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | HE Compressor motors | Other Non-Mfg | Process Air Compressor | New | end use | 332 | 1.1% | 0.00 | 15 | \$1.2 | 56% | 1.52 |
| FE-Met Ed | HE Compressor motors | Other Non-Mfg | Process Air Compressor | ROB | end use | 332 | 1.1% | 0.00 | 15 | \$1.2 | 56% | 1.52 |
| FE-Met Ed | Improved Controls - Air Compressor | Other Non-Mfg | Process Air Compressor | Existing | end use | 332 | 41% | 0.02 | 10 | \$5.9 | 19% | 3.91 |
| FE-Met Ed | Improved Controls - Air Compressor | Other Non-Mfg | Process Air Compressor | New | end use | 332 | 41% | 0.02 | 10 | \$5.9 | 19% | 3.91 |
| FE-Met Ed | Low Pressure-drop Filters | Other Non-Mfg | Process Air Compressor | Existing | end use | 332 | 1.8% | 0.00 | 10 | \$3.8 | 46% | 0.65 |
| FE-Met Ed | Low Pressure-drop Filters | Other Non-Mfg | Process Air Compressor | New | end use | 332 | 1.8% | 0.00 | 10 | \$3.8 | 46% | 0.65 |
| FE-Met Ed | Outside Air Intake | Other Non-Mfg | Process Air Compressor | Existing | end use | 332 | 1.4% | 0.00 | 10 | \$2.2 | 37% | 0.84 |
| FE-Met Ed | Outside Air Intake | Other Non-Mfg | Process Air Compressor | New | end use | 332 | 1.4% | 0.00 | 10 | \$2.2 | 37% | 0.85 |
| FE-Met Ed | Receiver Capacity Addition | Other Non-Mfg | Process Air Compressor | Existing | end use | 332 | 5.9% | 0.00 | 10 | \$6.2 | 28% | 1.17 |
| FE-Met Ed | Receiver Capacity Addition | Other Non-Mfg | Process Air Compressor | New | end use | 332 | 5.9% | 0.00 | 10 | \$6.2 | 28% | 1.17 |
| FE-Met Ed | Refrigerated Cycling Dryers | Other Non-Mfg | Process Air Compressor | Early | end use | 332 | 1.7% | 0.00 | 10 | \$0.8 | 16% | 2.14 |
| FE-Met Ed | Refrigerated Cycling Dryers | Other Non-Mfg | Process Air Compressor | New | end use | 332 | 1.7% | 0.00 | 10 | \$0.8 | 16% | 2.14 |
| FE-Met Ed | Refrigerated Cycling Dryers | Other Non-Mfg | Process Air Compressor | ROB | end use | 332 | 1.7% | 0.00 | 10 | \$0.8 | 16% | 2.14 |
| FE-Met Ed | VFD Controlled Compressor | Other Non-Mfg | Process Air Compressor | Early | end use | 332 | 24% | 0.01 | 10 | \$33 | 22% | 0.92 |
| FE-Met Ed | VFD Controlled Compressor | Other Non-Mfg | Process Air Compressor | New | end use | 332 | 24% | 0.01 | 10 | \$33 | 22% | 0.92 |
| FE-Met Ed | VFD Controlled Compressor | Other Non-Mfg | Process Air Compressor | ROB | end use | 332 | 24% | 0.01 | 10 | \$33 | 22% | 0.92 |
| FE-Met Ed | Zero Loss Condensate Drain | Other Non-Mfg | Process Air Compressor | Early | end use | 332 | 1.8% | 0.00 | 10 | \$1.9 | 28% | 1.03 |
| FE-Met Ed | Zero Loss Condensate Drain | Other Non-Mfg | Process Air Compressor | New | end use | 332 | 1.8% | 0.00 | 10 | \$1.9 | 28% | 1.03 |
| FE-Met Ed | Zero Loss Condensate Drain | Other Non-Mfg | Process Air Compressor | ROB | end use | 332 | 1.8% | 0.00 | 10 | \$1.9 | 28% | 1.03 |
| FE-Met Ed | Cooling Tower Optimization | Other Non-Mfg | Process Cooling | Existing | building | 4,396 | 20% | 0.31 | 10 | \$27 | 23% | 5.47 |
| FE-Met Ed | Equipment: Chillers | Other Non-Mfg | Process Cooling | Early | end use | 4,396 | 18% | 0.16 | 15 | \$206 | 39% | 2.02 |
| FE-Met Ed | Equipment: Chillers | Other Non-Mfg | Process Cooling | New | end use | 4,396 | 18% | 0.16 | 15 | \$206 | 39% | 2.02 |
| FE-Met Ed | Equipment: Chillers | Other Non-Mfg | Process Cooling | ROB | end use | 4,396 | 18% | 0.16 | 15 | \$206 | 39% | 2.02 |
| FE-Met Ed | Facility Energy Management | Other Non-Mfg | Process Cooling | Existing | end use | 4,396 | 1.9% | 0.02 | 2 | \$1.7 | 50% | 1.27 |
| FE-Met Ed | Facility Energy Management | Other Non-Mfg | Process Cooling | New | end use | 4,396 | 1.9% | 0.02 | 2 | \$1.7 | 50% | 1.27 |
| FE-Met Ed | Improved Controls - Process Cooling | Other Non-Mfg | Process Cooling | Existing | end use | 4,396 | 6.0% | 0.05 | 10 | \$232 | 47% | 0.50 |
| FE-Met Ed | Improved Controls - Process Cooling | Other Non-Mfg | Process Cooling | New | end use | 4,396 | 6.0% | 0.05 | 10 | \$232 | 47% | 0.50 |
| FE-Met Ed | Milk Precooler - Dairy Plate Cooler | Other Non-Mfg | Process Cooling | Early | end use | 4,396 | 3.2% | 0.03 | 15 | \$75 | 8% | 1.13 |
| FE-Met Ed | Milk Precooler - Dairy Plate Cooler | Other Non-Mfg | Process Cooling | New | end use | 4,396 | 3.2% | 0.03 | 15 | \$75 | 8% | 1.13 |
| FE-Met Ed | Milk Precooler - Dairy Plate Cooler | Other Non-Mfg | Process Cooling | ROB | end use | 4,396 | 3.2% | 0.03 | 15 | \$75 | 8% | 1.13 |
| FE-Met Ed | VFD on Cooling Tower Fan | Other Non-Mfg | Process Cooling | Early | motor | 4,396 | 21% | 0.28 | 15 | \$203 | 24% | 2.54 |
| FE-Met Ed | VFD on Cooling Tower Fan | Other Non-Mfg | Process Cooling | New | motor | 4,396 | 22% | 0.28 | 15 | \$206 | 24% | 2.53 |
| FE-Met Ed | VFD on Cooling Tower Fan | Other Non-Mfg | Process Cooling | ROB | motor | 4,396 | 22% | 0.28 | 15 | \$206 | 24% | 2.53 |
| FE-Met Ed | Crate Heating Pads | Other Non-Mfg | Process Heating | Early | end use | 17,808 | 18% | 0.43 | 15 | \$452 | 9% | 2.85 |
| FE-Met Ed | Crate Heating Pads | Other Non-Mfg | Process Heating | New | end use | 17,808 | 18% | 0.43 | 15 | \$452 | 9% | 2.85 |
| FE-Met Ed | Crate Heating Pads | Other Non-Mfg | Process Heating | ROB | end use | 17,808 | 18% | 0.43 | 15 | \$452 | 9% | 2.85 |
| FE-Met Ed | Grain dryers | Other Non-Mfg | Process Heating | Early | end use | 17,808 | 24% | 0.57 | 15 | \$27,481 | 9% | 0.09 |
| FE-Met Ed | Grain dryers | Other Non-Mfg | Process Heating | New | end use | 17,808 | 24% | 0.57 | 15 | \$27,481 | 9% | 0.09 |
| FE-Met Ed | Grain dryers | Other Non-Mfg | Process Heating | ROB | end use | 17,808 | 24% | 0.57 | 15 | \$27,481 | 9% | 0.09 |
| FE-Met Ed | Heat Lamp Setback (Microzone) | Other Non-Mfg | Process Heating | Existing | end use | 17,808 | 0.5% | 0.01 | 15 | \$14 | 4% | 2.59 |
| FE-Met Ed | Heat Lamp Setback (Microzone) | Other Non-Mfg | Process Heating | New | end use | 17,808 | 0.5% | 0.01 | 15 | \$14 | 4% | 2.60 |
| FE-Met Ed | Heat Lamp/Heating Pad Controller | Other Non-Mfg | Process Heating | Existing | end use | 17,808 | 1.8% | 0.04 | 15 | \$33 | 4% | 3.56 |
| FE-Met Ed | Heat Lamp/Heating Pad Controller | Other Non-Mfg | Process Heating | New | end use | 17,808 | 1.8% | 0.04 | 15 | \$33 | 4% | 3.57 |
| FE-Met Ed | Heat Lamps | Other Non-Mfg | Process Heating | Early | end use | 17,808 | 3.4% | 0.08 | 10 | \$11 | 9% | 4.91 |
| FE-Met Ed | Heat Lamps | Other Non-Mfg | Process Heating | New | end use | 17,808 | 3.4% | 0.08 | 10 | \$11 | 9% | 4.91 |
| FE-Met Ed | Heat Lamps | Other Non-Mfg | Process Heating | ROB | end use | 17,808 | 3.4% | 0.08 | 10 | \$11 | 9% | 4.91 |
| FE-Met Ed | Improved Controls - Process Heating | Other Non-Mfg | Process Heating | Existing | end use | 17,808 | 17% | 0.42 | 10 | \$205 | 23% | 3.24 |
| FE-Met Ed | Improved Controls - Process Heating | Other Non-Mfg | Process Heating | New | end use | 17,808 | 17% | 0.42 | 10 | \$205 | 23% | 3.24 |
| FE-Met Ed | Process Heat O&M | Other Non-Mfg | Process Heating | Existing | end use | 17,808 | 16% | 0.40 | 2 | \$124 | 23% | 0.95 |
| FE-Met Ed | Process Heat O&M | Other Non-Mfg | Process Heating | New | end use | 17,808 | 16% | 0.40 | 2 | \$124 | 23% | 0.95 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---------------------------------------|----------------|-----------------------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Met Ed | Facility Energy Management | Other Non-Mfg | Process Other | Existing | end use | 1,922 | 1.9% | 0.00 | 2 | \$0.7 | 73% | 1.18 |
| FE-Met Ed | Facility Energy Management | Other Non-Mfg | Process Other | New | end use | 1,922 | 1.9% | 0.00 | 2 | \$0.7 | 73% | 1.18 |
| FE-Met Ed | Adjustable speed drive on compressors | Other Non-Mfg | Process Refrigeration | Early | end use | 2,258 | 12% | 0.04 | 10 | \$42 | 30% | 1.99 |
| FE-Met Ed | Adjustable speed drive on compressors | Other Non-Mfg | Process Refrigeration | New | end use | 2,258 | 12% | 0.04 | 10 | \$42 | 30% | 1.99 |
| FE-Met Ed | Adjustable speed drive on compressors | Other Non-Mfg | Process Refrigeration | ROB | end use | 2,258 | 12% | 0.04 | 10 | \$42 | 30% | 1.99 |
| FE-Met Ed | Cooling Tower Optimization | Other Non-Mfg | Process Refrigeration | Existing | building | 2,258 | 20% | 0.16 | 10 | \$14 | 23% | 5.47 |
| FE-Met Ed | Optimization of operating parameters | Other Non-Mfg | Process Refrigeration | Existing | end use | 2,258 | 13% | 0.04 | 3 | \$18 | 27% | 1.20 |
| FE-Met Ed | Optimization of operating parameters | Other Non-Mfg | Process Refrigeration | New | end use | 2,258 | 13% | 0.04 | 3 | \$18 | 27% | 1.20 |
| FE-Met Ed | Synchronous Belts | Other Non-Mfg | Process Refrigeration | Early | end use | 2,258 | 1.2% | 0.00 | 10 | \$3.3 | 30% | 2.31 |
| FE-Met Ed | Synchronous Belts | Other Non-Mfg | Process Refrigeration | New | end use | 2,258 | 1.2% | 0.00 | 10 | \$3.3 | 30% | 2.31 |
| FE-Met Ed | Synchronous Belts | Other Non-Mfg | Process Refrigeration | ROB | end use | 2,258 | 1.2% | 0.00 | 10 | \$3.3 | 30% | 2.31 |
| FE-Met Ed | VFD on Cooling Tower Fan | Other Non-Mfg | Process Refrigeration | Early | motor | 2,258 | 21% | 0.14 | 15 | \$104 | 24% | 2.54 |
| FE-Met Ed | VFD on Cooling Tower Fan | Other Non-Mfg | Process Refrigeration | New | motor | 2,258 | 22% | 0.14 | 15 | \$106 | 24% | 2.53 |
| FE-Met Ed | VFD on Cooling Tower Fan | Other Non-Mfg | Process Refrigeration | ROB | motor | 2,258 | 22% | 0.14 | 15 | \$106 | 24% | 2.53 |
| FE-Met Ed | Facility Energy Management | Other Non-Mfg | Pumps | Existing | end use | 22,411 | 1.9% | 0.05 | 2 | \$8.6 | 34% | 1.22 |
| FE-Met Ed | Facility Energy Management | Other Non-Mfg | Pumps | New | end use | 22,411 | 1.9% | 0.05 | 2 | \$8.6 | 34% | 1.22 |
| FE-Met Ed | HE Motors | Other Non-Mfg | Pumps | Early | end use | 22,411 | 2.0% | 0.06 | 15 | \$133 | 36% | 1.74 |
| FE-Met Ed | HE Motors | Other Non-Mfg | Pumps | New | end use | 22,411 | 2.0% | 0.06 | 15 | \$133 | 36% | 1.74 |
| FE-Met Ed | HE Motors | Other Non-Mfg | Pumps | ROB | end use | 22,411 | 2.0% | 0.06 | 15 | \$133 | 36% | 1.74 |
| FE-Met Ed | Motor rewinds | Other Non-Mfg | Pumps | Existing | end use | 22,411 | 0.6% | 0.02 | 9 | \$32 | 6% | 1.38 |
| FE-Met Ed | Motor rewinds | Other Non-Mfg | Pumps | New | end use | 22,411 | 0.6% | 0.02 | 9 | \$32 | 6% | 1.38 |
| FE-Met Ed | Synchronous Belts | Other Non-Mfg | Pumps | Early | end use | 22,411 | 1.2% | 0.03 | 10 | \$33 | 30% | 2.27 |
| FE-Met Ed | Synchronous Belts | Other Non-Mfg | Pumps | New | end use | 22,411 | 1.2% | 0.03 | 10 | \$33 | 30% | 2.27 |
| FE-Met Ed | Synchronous Belts | Other Non-Mfg | Pumps | ROB | end use | 22,411 | 1.2% | 0.03 | 10 | \$33 | 30% | 2.27 |
| FE-Penelec | Circulating Fans | Mfg: Chemicals | Fans | Early | end use | 398,465 | 5.0% | 2.37 | 10 | \$2,426 | 68% | 2.23 |
| FE-Penelec | Circulating Fans | Mfg: Chemicals | Fans | New | end use | 398,465 | 5.0% | 2.37 | 10 | \$2,426 | 68% | 2.23 |
| FE-Penelec | Circulating Fans | Mfg: Chemicals | Fans | ROB | end use | 398,465 | 5.0% | 2.37 | 10 | \$2,426 | 68% | 2.23 |
| FE-Penelec | Facility Energy Management | Mfg: Chemicals | Fans | Existing | end use | 398,465 | 1.9% | 0.87 | 2 | \$154 | 77% | 1.16 |
| FE-Penelec | Facility Energy Management | Mfg: Chemicals | Fans | New | end use | 398,465 | 1.9% | 0.87 | 2 | \$154 | 77% | 1.16 |
| FE-Penelec | HE Motors | Mfg: Chemicals | Fans | Early | end use | 398,465 | 2.0% | 0.97 | 15 | \$2,372 | 77% | 1.68 |
| FE-Penelec | HE Motors | Mfg: Chemicals | Fans | New | end use | 398,465 | 2.0% | 0.97 | 15 | \$2,372 | 77% | 1.68 |
| FE-Penelec | HE Motors | Mfg: Chemicals | Fans | ROB | end use | 398,465 | 2.0% | 0.97 | 15 | \$2,372 | 77% | 1.68 |
| FE-Penelec | Improved Controls - Fans | Mfg: Chemicals | Fans | Existing | end use | 398,465 | 7.1% | 3.37 | 10 | \$1,545 | 88% | 3.42 |
| FE-Penelec | Improved Controls - Fans | Mfg: Chemicals | Fans | New | end use | 398,465 | 7.1% | 3.37 | 10 | \$1,545 | 88% | 3.42 |
| FE-Penelec | Properly Sized Fans | Mfg: Chemicals | Fans | Early | end use | 398,465 | 13% | 6.24 | 10 | \$8,161 | 41% | 1.89 |
| FE-Penelec | Properly Sized Fans | Mfg: Chemicals | Fans | New | end use | 398,465 | 13% | 6.24 | 10 | \$8,161 | 41% | 1.89 |
| FE-Penelec | Properly Sized Fans | Mfg: Chemicals | Fans | ROB | end use | 398,465 | 13% | 6.24 | 10 | \$8,161 | 41% | 1.89 |
| FE-Penelec | Synchronous Belts | Mfg: Chemicals | Fans | Early | end use | 398,465 | 1.2% | 0.55 | 10 | \$587 | 41% | 2.17 |
| FE-Penelec | Synchronous Belts | Mfg: Chemicals | Fans | New | end use | 398,465 | 1.2% | 0.55 | 10 | \$587 | 41% | 2.17 |
| FE-Penelec | Synchronous Belts | Mfg: Chemicals | Fans | ROB | end use | 398,465 | 1.2% | 0.55 | 10 | \$587 | 41% | 2.17 |
| FE-Penelec | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Chemicals | HVAC | Early | unit (ton) | 159,350 | 9.2% | 3.79 | 15 | \$29,041 | 28% | 0.34 |
| FE-Penelec | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Chemicals | HVAC | New | unit (ton) | 159,350 | 4.1% | 1.70 | 15 | \$7,036 | 28% | 0.62 |
| FE-Penelec | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Chemicals | HVAC | ROB | unit (ton) | 159,350 | 4.1% | 1.70 | 15 | \$7,036 | 28% | 0.62 |
| FE-Penelec | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Chemicals | HVAC | Early | unit (ton) | 159,350 | 12% | 5.13 | 15 | \$34,236 | 28% | 0.39 |
| FE-Penelec | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Chemicals | HVAC | New | unit (ton) | 159,350 | 7.7% | 3.18 | 15 | \$14,819 | 28% | 0.55 |
| FE-Penelec | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Chemicals | HVAC | ROB | unit (ton) | 159,350 | 7.7% | 3.18 | 15 | \$14,819 | 28% | 0.55 |
| FE-Penelec | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Chemicals | HVAC | Early | unit (ton) | 159,350 | 15% | 6.30 | 15 | \$39,431 | 29% | 0.42 |
| FE-Penelec | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Chemicals | HVAC | New | unit (ton) | 159,350 | 11% | 4.47 | 15 | \$22,603 | 29% | 0.51 |
| FE-Penelec | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Chemicals | HVAC | ROB | unit (ton) | 159,350 | 11% | 4.47 | 15 | \$22,603 | 29% | 0.51 |
| FE-Penelec | >760k min 10.2 EER Air Conditioner | Mfg: Chemicals | HVAC | Early | unit (ton) | 159,350 | 2.1% | 0.88 | 15 | \$50,572 | 35% | 0.05 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|----------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | >760k min 10.2 EER Air Conditioner | Mfg: Chemicals | HVAC | New | unit (ton) | 159,350 | 2.8% | 1.17 | 15 | \$4,571 | 35% | 0.65 |
| FE-Penelec | >760k min 10.2 EER Air Conditioner | Mfg: Chemicals | HVAC | ROB | unit (ton) | 159,350 | 2.8% | 1.17 | 15 | \$4,571 | 35% | 0.65 |
| FE-Penelec | 135-240k min 12 EER Air Conditioner | Mfg: Chemicals | HVAC | Early | unit (ton) | 159,350 | 10% | 4.32 | 15 | \$54,762 | 35% | 0.21 |
| FE-Penelec | 135-240k min 12 EER Air Conditioner | Mfg: Chemicals | HVAC | New | unit (ton) | 159,350 | 5.8% | 2.39 | 15 | \$6,466 | 35% | 0.91 |
| FE-Penelec | 135-240k min 12 EER Air Conditioner | Mfg: Chemicals | HVAC | ROB | unit (ton) | 159,350 | 5.8% | 2.39 | 15 | \$6,466 | 35% | 0.91 |
| FE-Penelec | 240k-760k min 11 EER Air Conditioner | Mfg: Chemicals | HVAC | Early | unit (ton) | 159,350 | 5.2% | 2.15 | 15 | \$50,604 | 35% | 0.11 |
| FE-Penelec | 240k-760k min 11 EER Air Conditioner | Mfg: Chemicals | HVAC | New | unit (ton) | 159,350 | 5.3% | 2.21 | 15 | \$5,421 | 35% | 0.99 |
| FE-Penelec | 240k-760k min 11 EER Air Conditioner | Mfg: Chemicals | HVAC | ROB | unit (ton) | 159,350 | 5.3% | 2.21 | 15 | \$5,421 | 35% | 0.99 |
| FE-Penelec | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Chemicals | HVAC | Early | unit (ton) | 159,350 | 9.7% | 4.01 | 15 | \$56,072 | 35% | 0.19 |
| FE-Penelec | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Chemicals | HVAC | New | unit (ton) | 159,350 | 3.8% | 1.59 | 15 | \$8,000 | 35% | 0.51 |
| FE-Penelec | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Chemicals | HVAC | ROB | unit (ton) | 159,350 | 3.8% | 1.59 | 15 | \$8,000 | 35% | 0.51 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Mfg: Chemicals | HVAC | Existing | building | 87,088 | 5.9% | 1.29 | 15 | \$263,862 | 71% | 0.01 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Mfg: Chemicals | HVAC | New | building | 87,088 | 3.7% | 0.81 | 15 | \$250,808 | 94% | 0.01 |
| FE-Penelec | Chiller Tuneup/Diagnostics | Mfg: Chemicals | HVAC | Existing | building | 87,088 | 8.0% | 2.55 | 10 | \$222,374 | 59% | 0.02 |
| FE-Penelec | Chiller Tuneup/Diagnostics | Mfg: Chemicals | HVAC | New | building | 87,088 | 8.0% | 2.56 | 10 | \$222,374 | 59% | 0.02 |
| FE-Penelec | Cooling Tower Optimization | Mfg: Chemicals | HVAC | Existing | building | 87,088 | 20% | 6.23 | 10 | \$534 | 69% | 5.43 |
| FE-Penelec | Duct Insulation, Add R8 | Mfg: Chemicals | HVAC | Existing | building | 87,088 | 1.5% | 0.28 | 15 | \$692 | 18% | 1.15 |
| FE-Penelec | Duct Insulation, Add R8 | Mfg: Chemicals | HVAC | New | building | 87,088 | 1.5% | 0.28 | 15 | \$692 | 9% | 1.15 |
| FE-Penelec | Ductless Heat Pump | Mfg: Chemicals | HVAC | Early | heat pump | 159,350 | 0.8% | 0.30 | 15 | \$12,598 | 83% | 0.07 |
| FE-Penelec | Ductless Heat Pump | Mfg: Chemicals | HVAC | New | heat pump | 159,350 | 0.4% | 0.16 | 15 | \$3,659 | 83% | 0.13 |
| FE-Penelec | Ductless Heat Pump | Mfg: Chemicals | HVAC | ROB | heat pump | 159,350 | 0.4% | 0.16 | 15 | \$3,659 | 83% | 0.13 |
| FE-Penelec | DX Coil Cleaning | Mfg: Chemicals | HVAC | Existing | building | 87,088 | 13% | 3.99 | 1 | \$835 | 73% | 0.51 |
| FE-Penelec | DX Coil Cleaning | Mfg: Chemicals | HVAC | New | building | 87,088 | 13% | 3.99 | 1 | \$835 | 73% | 0.51 |
| FE-Penelec | Efficient Unit Heating System | Mfg: Chemicals | HVAC | Early | heater | 159,350 | 6.9% | 0.09 | 15 | \$8,603 | 83% | 0.64 |
| FE-Penelec | Efficient Unit Heating System | Mfg: Chemicals | HVAC | New | heater | 159,350 | 4.0% | 0.05 | 15 | \$5,868 | 83% | 0.54 |
| FE-Penelec | Efficient Unit Heating System | Mfg: Chemicals | HVAC | ROB | heater | 159,350 | 4.0% | 0.05 | 15 | \$5,868 | 83% | 0.54 |
| FE-Penelec | Ground Source Heat Pump (Closed Loop) | Mfg: Chemicals | HVAC | Early | heat pump | 159,350 | 1.3% | 0.46 | 15 | \$26,159 | 19% | 0.05 |
| FE-Penelec | Ground Source Heat Pump (Closed Loop) | Mfg: Chemicals | HVAC | New | heat pump | 159,350 | 1.0% | 0.36 | 15 | \$10,329 | 19% | 0.11 |
| FE-Penelec | Ground Source Heat Pump (Closed Loop) | Mfg: Chemicals | HVAC | ROB | heat pump | 159,350 | 1.0% | 0.36 | 15 | \$10,329 | 19% | 0.11 |
| FE-Penelec | Ground Source Heat Pump (Open Loop) | Mfg: Chemicals | HVAC | Early | heat pump | 159,350 | 1.3% | 0.46 | 15 | \$16,754 | 19% | 0.08 |
| FE-Penelec | Ground Source Heat Pump (Open Loop) | Mfg: Chemicals | HVAC | New | heat pump | 159,350 | 1.0% | 0.36 | 15 | \$355 | 19% | 2.35 |
| FE-Penelec | Ground Source Heat Pump (Open Loop) | Mfg: Chemicals | HVAC | ROB | heat pump | 159,350 | 1.0% | 0.36 | 15 | \$355 | 19% | 2.35 |
| FE-Penelec | HE Air Cooled Chiller, 100 Tons | Mfg: Chemicals | HVAC | Early | unit (ton) | 159,350 | 1.5% | 0.52 | 15 | \$185,367 | 89% | 0.01 |
| FE-Penelec | HE Air Cooled Chiller, 100 Tons | Mfg: Chemicals | HVAC | New | unit (ton) | 159,350 | 0.4% | 0.15 | 15 | \$27,005 | 89% | 0.02 |
| FE-Penelec | HE Air Cooled Chiller, 100 Tons | Mfg: Chemicals | HVAC | ROB | unit (ton) | 159,350 | 0.4% | 0.15 | 15 | \$27,005 | 89% | 0.02 |
| FE-Penelec | HE Air Cooled Chiller, 150 Tons | Mfg: Chemicals | HVAC | Early | unit (ton) | 159,350 | 1.4% | 0.52 | 15 | \$160,115 | 89% | 0.01 |
| FE-Penelec | HE Air Cooled Chiller, 150 Tons | Mfg: Chemicals | HVAC | New | unit (ton) | 159,350 | 0.3% | 0.11 | 15 | \$13,262 | 89% | 0.02 |
| FE-Penelec | HE Air Cooled Chiller, 150 Tons | Mfg: Chemicals | HVAC | ROB | unit (ton) | 159,350 | 0.3% | 0.11 | 15 | \$13,262 | 89% | 0.02 |
| FE-Penelec | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Chemicals | HVAC | Early | heat pump | 159,350 | 1.4% | 0.49 | 12 | \$6,829 | 81% | 0.17 |
| FE-Penelec | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Chemicals | HVAC | Early | heat pump | 159,350 | 1.1% | 0.40 | 12 | \$4,989 | 81% | 0.19 |
| FE-Penelec | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Chemicals | HVAC | New | heat pump | 159,350 | 1.0% | 0.36 | 12 | \$3,049 | 81% | 0.28 |
| FE-Penelec | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Chemicals | HVAC | New | heat pump | 159,350 | 0.8% | 0.27 | 12 | \$1,066 | 81% | 0.58 |
| FE-Penelec | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Chemicals | HVAC | ROB | heat pump | 159,350 | 1.0% | 0.36 | 12 | \$3,049 | 81% | 0.28 |
| FE-Penelec | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Chemicals | HVAC | ROB | heat pump | 159,350 | 0.8% | 0.27 | 12 | \$1,066 | 81% | 0.58 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Chemicals | HVAC | Early | unit (ton) | 159,350 | 1.6% | 0.57 | 15 | \$14,708 | 89% | 0.12 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Chemicals | HVAC | New | unit (ton) | 159,350 | 0.9% | 0.33 | 15 | \$4,892 | 89% | 0.20 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Chemicals | HVAC | ROB | unit (ton) | 159,350 | 0.9% | 0.33 | 15 | \$4,892 | 89% | 0.20 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Chemicals | HVAC | Early | unit (ton) | 159,350 | 1.4% | 0.50 | 15 | \$14,364 | 89% | 0.11 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Chemicals | HVAC | New | unit (ton) | 159,350 | 1.0% | 0.35 | 15 | \$2,805 | 89% | 0.37 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Chemicals | HVAC | ROB | unit (ton) | 159,350 | 1.4% | 0.50 | 15 | \$2,577 | 89% | 0.56 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|----------------|----------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Chemicals | HVAC | Early | unit (ton) | 159,350 | 1.4% | 0.50 | 15 | \$17,001 | 89% | 0.09 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Chemicals | HVAC | New | unit (ton) | 159,350 | 0.9% | 0.32 | 15 | \$7,158 | 89% | 0.13 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Chemicals | HVAC | ROB | unit (ton) | 159,350 | 1.4% | 0.50 | 15 | \$6,478 | 89% | 0.23 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Chemicals | HVAC | Early | unit (ton) | 159,350 | 1.4% | 0.50 | 15 | \$16,377 | 89% | 0.09 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Chemicals | HVAC | New | unit (ton) | 159,350 | 0.9% | 0.32 | 15 | \$6,222 | 89% | 0.15 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Chemicals | HVAC | ROB | unit (ton) | 159,350 | 1.4% | 0.50 | 15 | \$5,631 | 89% | 0.26 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Chemicals | HVAC | Early | unit (ton) | 159,350 | 1.8% | 0.65 | 15 | \$17,646 | 89% | 0.11 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Chemicals | HVAC | New | unit (ton) | 159,350 | 0.5% | 0.20 | 15 | \$10,927 | 89% | 0.05 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Chemicals | HVAC | ROB | unit (ton) | 159,350 | 1.8% | 0.65 | 15 | \$8,484 | 89% | 0.23 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Chemicals | HVAC | Early | unit (ton) | 159,350 | 2.1% | 0.77 | 15 | \$16,231 | 89% | 0.14 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Chemicals | HVAC | New | unit (ton) | 159,350 | 0.8% | 0.28 | 15 | \$6,513 | 89% | 0.13 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Chemicals | HVAC | ROB | unit (ton) | 159,350 | 0.8% | 0.28 | 15 | \$6,513 | 89% | 0.13 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Chemicals | HVAC | Early | unit (ton) | 159,350 | 2.4% | 0.86 | 15 | \$13,756 | 89% | 0.19 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Chemicals | HVAC | New | unit (ton) | 159,350 | 0.9% | 0.32 | 15 | \$3,461 | 89% | 0.27 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Chemicals | HVAC | ROB | unit (ton) | 159,350 | 2.4% | 0.86 | 15 | \$2,468 | 89% | 0.95 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Chemicals | HVAC | Early | unit (ton) | 159,350 | 1.8% | 0.65 | 15 | \$13,618 | 89% | 0.14 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Chemicals | HVAC | New | unit (ton) | 159,350 | 0.7% | 0.24 | 15 | \$3,813 | 89% | 0.19 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Chemicals | HVAC | ROB | unit (ton) | 159,350 | 1.8% | 0.65 | 15 | \$3,021 | 89% | 0.61 |
| FE-Penelec | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Chemicals | HVAC | Existing | building | 87,088 | 2.9% | 0.51 | 5 | \$924 | 55% | 0.61 |
| FE-Penelec | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Chemicals | HVAC | New | building | 87,088 | 0.6% | 0.20 | 5 | \$554 | 51% | 0.29 |
| FE-Penelec | Improved Controls - HVAC | Mfg: Chemicals | HVAC | Existing | end use | 87,088 | 21% | 2.61 | 10 | \$916 | 76% | 3.68 |
| FE-Penelec | Improved Controls - HVAC | Mfg: Chemicals | HVAC | New | end use | 87,088 | 21% | 2.61 | 10 | \$916 | 76% | 3.68 |
| FE-Penelec | Outside Air Economizer | Mfg: Chemicals | HVAC | Existing | building | 87,088 | 1.1% | 0.24 | 10 | \$319,976 | 82% | 0.00 |
| FE-Penelec | Outside Air Economizer | Mfg: Chemicals | HVAC | New | building | 87,088 | 1.1% | 0.24 | 10 | \$319,976 | 82% | 0.00 |
| FE-Penelec | Recommissioning | Mfg: Chemicals | HVAC | Existing | end use | 87,088 | 5.0% | 0.63 | 10 | \$119 | 88% | 4.54 |
| FE-Penelec | Recommissioning | Mfg: Chemicals | HVAC | New | end use | 87,088 | 5.0% | 0.63 | 10 | \$119 | 88% | 4.54 |
| FE-Penelec | Room AC (with louvered sides) | Mfg: Chemicals | HVAC | Early | unit (ton) | 159,350 | 7.7% | 2.77 | 9 | \$12,495 | 78% | 0.41 |
| FE-Penelec | Room AC (with louvered sides) | Mfg: Chemicals | HVAC | New | unit (ton) | 159,350 | 2.6% | 0.92 | 9 | \$684 | 78% | 1.88 |
| FE-Penelec | Room AC (with louvered sides) | Mfg: Chemicals | HVAC | ROB | unit (ton) | 159,350 | 2.6% | 0.92 | 9 | \$684 | 78% | 1.88 |
| FE-Penelec | Variable Refrigerant Flow Heat Pump | Mfg: Chemicals | HVAC | New | measure | 159,350 | 0.1% | 0.04 | 13 | \$1,173 | 43% | 0.09 |
| FE-Penelec | Variable Refrigerant Flow Heat Pump | Mfg: Chemicals | HVAC | ROB | measure | 159,350 | 0.1% | 0.04 | 13 | \$1,173 | 43% | 0.09 |
| FE-Penelec | VFD on Cooling Tower Fan | Mfg: Chemicals | HVAC | Early | motor | 159,350 | 21% | 10.05 | 15 | \$7,358 | 15% | 2.54 |
| FE-Penelec | VFD on Cooling Tower Fan | Mfg: Chemicals | HVAC | New | motor | 159,350 | 22% | 10.05 | 15 | \$7,498 | 15% | 2.52 |
| FE-Penelec | VFD on Cooling Tower Fan | Mfg: Chemicals | HVAC | ROB | motor | 159,350 | 22% | 10.05 | 15 | \$7,498 | 15% | 2.52 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Mfg: Chemicals | HVAC | Existing | building | 87,088 | 19% | 4.16 | 15 | \$61,951 | 26% | 0.18 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Mfg: Chemicals | HVAC | New | building | 87,088 | 0.6% | 0.13 | 15 | \$47,519 | 94% | 0.01 |
| FE-Penelec | Water Source Heat Pump (4 ton) | Mfg: Chemicals | HVAC | Early | heat pump | 159,350 | 1.5% | 0.55 | 15 | \$27,089 | 28% | 0.06 |
| FE-Penelec | Water Source Heat Pump (4 ton) | Mfg: Chemicals | HVAC | New | heat pump | 159,350 | 1.1% | 0.40 | 15 | \$13,203 | 28% | 0.09 |
| FE-Penelec | Water Source Heat Pump (4 ton) | Mfg: Chemicals | HVAC | ROB | heat pump | 159,350 | 1.1% | 0.40 | 15 | \$13,203 | 28% | 0.09 |
| FE-Penelec | Efficient Metal Halide (High Bay) | Mfg: Chemicals | Lighting | Early | end use | 93,256 | 42% | 0.00 | 9 | \$14,572 | 53% | 0.76 |
| FE-Penelec | Efficient Metal Halide (High Bay) | Mfg: Chemicals | Lighting | New | end use | 93,256 | 41% | 0.00 | 13 | \$389,234 | 61% | 0.05 |
| FE-Penelec | Efficient Metal Halide (High Bay) | Mfg: Chemicals | Lighting | ROB | end use | 93,256 | 41% | 0.00 | 13 | \$297,474 | 61% | 0.06 |
| FE-Penelec | Induction (High Bay) | Mfg: Chemicals | Lighting | Early | end use | 93,256 | 94% | 0.00 | 13 | \$43,359 | 95% | 0.82 |
| FE-Penelec | Induction (High Bay) | Mfg: Chemicals | Lighting | New | end use | 93,256 | 94% | 0.00 | 13 | \$40,595 | 95% | 0.87 |
| FE-Penelec | Induction (High Bay) | Mfg: Chemicals | Lighting | ROB | end use | 93,256 | 94% | 0.00 | 13 | \$30,854 | 95% | 1.10 |
| FE-Penelec | LED (High Bay) | Mfg: Chemicals | Lighting | Early | end use | 93,256 | 69% | 0.00 | 14 | \$51,040 | 95% | 0.57 |
| FE-Penelec | LED (High Bay) | Mfg: Chemicals | Lighting | New | end use | 93,256 | 55% | 0.00 | 14 | \$56,653 | 95% | 0.42 |
| FE-Penelec | LED (High Bay) | Mfg: Chemicals | Lighting | ROB | end use | 93,256 | 59% | 0.00 | 14 | \$37,328 | 95% | 0.66 |
| FE-Penelec | Lighting Controls | Mfg: Chemicals | Lighting | Existing | end use | 93,256 | 20% | 0.00 | 6 | \$349,607 | 16% | 0.01 |
| FE-Penelec | Lighting Controls | Mfg: Chemicals | Lighting | New | end use | 93,256 | 12% | 0.00 | 10 | \$465,092 | 11% | 0.01 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---------------------------------------|----------------|----------|----------|---------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Linear Fluorescent (High Bay) | Mfg: Chemicals | Lighting | Early | end use | 93,256 | 17% | 0.00 | 14 | \$10,671 | 98% | 0.66 |
| FE-Penelec | Linear Fluorescent (High Bay) | Mfg: Chemicals | Lighting | New | end use | 93,256 | 13% | 0.00 | 14 | \$3,384 | 91% | 1.39 |
| FE-Penelec | Linear Fluorescent (High Bay) | Mfg: Chemicals | Lighting | ROB | end use | 93,256 | 13% | 0.00 | 14 | \$2,166 | 91% | 2.01 |
| FE-Penelec | Metal Halide (High Bay) | Mfg: Chemicals | Lighting | Early | end use | 93,256 | 62% | 0.00 | 13 | \$64,108 | 38% | 0.39 |
| FE-Penelec | Metal Halide (High Bay) | Mfg: Chemicals | Lighting | New | end use | 93,256 | 73% | 0.00 | 13 | \$15,327 | 38% | 1.56 |
| FE-Penelec | Metal Halide (High Bay) | Mfg: Chemicals | Lighting | ROB | end use | 93,256 | 73% | 0.00 | 13 | \$11,649 | 38% | 1.91 |
| FE-Penelec | Screw Base CFL | Mfg: Chemicals | Lighting | Early | end use | 93,256 | 80% | 0.00 | 7 | \$25,336 | 17% | 0.66 |
| FE-Penelec | Screw Base CFL | Mfg: Chemicals | Lighting | New | end use | 93,256 | 73% | 0.00 | 9 | \$20,705 | 18% | 0.90 |
| FE-Penelec | Screw Base CFL | Mfg: Chemicals | Lighting | ROB | end use | 93,256 | 73% | 0.00 | 9 | \$17,330 | 17% | 1.03 |
| FE-Penelec | Screw Base LED | Mfg: Chemicals | Lighting | Early | end use | 93,256 | 76% | 0.00 | 9 | \$15,549 | 21% | 1.21 |
| FE-Penelec | Screw Base LED | Mfg: Chemicals | Lighting | New | end use | 93,256 | 77% | 0.00 | 9 | \$8,662 | 20% | 1.84 |
| FE-Penelec | Screw Base LED | Mfg: Chemicals | Lighting | ROB | end use | 93,256 | 77% | 0.00 | 9 | \$6,876 | 21% | 2.11 |
| FE-Penelec | T8 High Performance Linear Florescent | Mfg: Chemicals | Lighting | Early | end use | 93,256 | 36% | 0.00 | 14 | \$8,924 | 71% | 1.48 |
| FE-Penelec | T8 High Performance Linear Florescent | Mfg: Chemicals | Lighting | New | end use | 93,256 | 26% | 0.00 | 14 | \$3,193 | 76% | 2.49 |
| FE-Penelec | T8 High Performance Linear Florescent | Mfg: Chemicals | Lighting | ROB | end use | 93,256 | 26% | 0.00 | 14 | \$2,427 | 76% | 2.94 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Chemicals | Motors | Early | end use | 125,801 | 0.9% | 0.16 | 15 | \$1,922 | 81% | 0.35 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Chemicals | Motors | New | end use | 125,801 | 0.9% | 0.16 | 15 | \$1,922 | 81% | 0.35 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Chemicals | Motors | ROB | end use | 125,801 | 0.9% | 0.16 | 15 | \$1,922 | 81% | 0.35 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Chemicals | Motors | Early | end use | 125,801 | 0.7% | 0.13 | 15 | \$1,167 | 73% | 0.46 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Chemicals | Motors | New | end use | 125,801 | 0.8% | 0.13 | 15 | \$1,167 | 73% | 0.47 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Chemicals | Motors | ROB | end use | 125,801 | 0.8% | 0.13 | 15 | \$1,167 | 73% | 0.47 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Chemicals | Motors | Early | end use | 125,801 | 0.4% | 0.08 | 15 | \$447 | 81% | 0.69 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Chemicals | Motors | New | end use | 125,801 | 0.5% | 0.08 | 15 | \$447 | 81% | 0.70 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Chemicals | Motors | ROB | end use | 125,801 | 0.5% | 0.08 | 15 | \$447 | 81% | 0.71 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Chemicals | Motors | Early | end use | 125,801 | 0.4% | 0.07 | 15 | \$148 | 73% | 1.65 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Chemicals | Motors | New | end use | 125,801 | 0.4% | 0.07 | 15 | \$148 | 73% | 1.62 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Chemicals | Motors | ROB | end use | 125,801 | 0.4% | 0.07 | 15 | \$148 | 73% | 1.69 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Chemicals | Motors | Early | end use | 125,801 | 0.9% | 0.16 | 15 | \$221 | 47% | 2.30 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Chemicals | Motors | New | end use | 125,801 | 0.9% | 0.16 | 15 | \$221 | 47% | 2.32 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Chemicals | Motors | ROB | end use | 125,801 | 0.9% | 0.16 | 15 | \$221 | 47% | 2.31 |
| FE-Penelec | Facility Energy Management | Mfg: Chemicals | Motors | Existing | end use | 125,801 | 1.9% | 0.33 | 2 | \$48 | 77% | 1.15 |
| FE-Penelec | Facility Energy Management | Mfg: Chemicals | Motors | New | end use | 125,801 | 1.9% | 0.33 | 2 | \$48 | 77% | 1.14 |
| FE-Penelec | HE Motors | Mfg: Chemicals | Motors | Early | end use | 125,801 | 2.0% | 0.37 | 15 | \$749 | 38% | 1.66 |
| FE-Penelec | HE Motors | Mfg: Chemicals | Motors | New | end use | 125,801 | 2.0% | 0.37 | 15 | \$749 | 38% | 1.66 |
| FE-Penelec | HE Motors | Mfg: Chemicals | Motors | ROB | end use | 125,801 | 2.0% | 0.37 | 15 | \$749 | 38% | 1.66 |
| FE-Penelec | High-Efficiency Ventilation System | Mfg: Chemicals | Motors | Early | end use | 125,801 | 5.7% | 1.02 | 10 | \$7,862 | 73% | 0.36 |
| FE-Penelec | High-Efficiency Ventilation System | Mfg: Chemicals | Motors | New | end use | 125,801 | 5.7% | 1.02 | 10 | \$7,862 | 73% | 0.36 |
| FE-Penelec | High-Efficiency Ventilation System | Mfg: Chemicals | Motors | ROB | end use | 125,801 | 5.7% | 1.02 | 10 | \$7,862 | 73% | 0.36 |
| FE-Penelec | Improved Controls - Motors | Mfg: Chemicals | Motors | Existing | end use | 125,801 | 4.0% | 0.71 | 10 | \$547 | 73% | 2.35 |
| FE-Penelec | Improved Controls - Motors | Mfg: Chemicals | Motors | New | end use | 125,801 | 4.0% | 0.71 | 10 | \$547 | 73% | 2.35 |
| FE-Penelec | Motor Management Plan | Mfg: Chemicals | Motors | Existing | end use | 125,801 | 2.9% | 0.52 | 10 | \$257 | 73% | 3.00 |
| FE-Penelec | Motor Management Plan | Mfg: Chemicals | Motors | New | end use | 125,801 | 2.9% | 0.52 | 10 | \$257 | 73% | 3.00 |
| FE-Penelec | Motors Other | Mfg: Chemicals | Motors | Existing | end use | 125,801 | 1.1% | 0.20 | 15 | \$25 | 83% | 6.77 |
| FE-Penelec | Motors Other | Mfg: Chemicals | Motors | New | end use | 125,801 | 1.1% | 0.20 | 15 | \$25 | 83% | 6.77 |
| FE-Penelec | Motors: Rewind 101-200 HP | Mfg: Chemicals | Motors | Existing | end use | 125,801 | 0.6% | 0.10 | 10 | \$159 | 27% | 1.44 |
| FE-Penelec | Motors: Rewind 101-200 HP | Mfg: Chemicals | Motors | New | end use | 125,801 | 0.6% | 0.10 | 10 | \$159 | 27% | 1.43 |
| FE-Penelec | Motors: Rewind 201-500 HP | Mfg: Chemicals | Motors | Existing | end use | 125,801 | 0.6% | 0.10 | 8 | \$100 | 27% | 1.66 |
| FE-Penelec | Motors: Rewind 201-500 HP | Mfg: Chemicals | Motors | New | end use | 125,801 | 0.6% | 0.10 | 8 | \$100 | 27% | 1.66 |
| FE-Penelec | Motors: Rewind 20-50 HP | Mfg: Chemicals | Motors | Existing | end use | 125,801 | 1.0% | 0.19 | 11 | \$467 | 42% | 1.08 |
| FE-Penelec | Motors: Rewind 20-50 HP | Mfg: Chemicals | Motors | New | end use | 125,801 | 1.0% | 0.19 | 11 | \$467 | 42% | 1.07 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|--|----------------|------------------------|----------|---------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Motors: Rewind 500+ HP | Mfg: Chemicals | Motors | Existing | end use | 125,801 | 0.6% | 0.10 | 8 | \$71 | 11% | 2.09 |
| FE-Penelec | Motors: Rewind 500+ HP | Mfg: Chemicals | Motors | New | end use | 125,801 | 0.6% | 0.10 | 8 | \$71 | 11% | 2.07 |
| FE-Penelec | Motors: Rewind 51-100 HP | Mfg: Chemicals | Motors | Existing | end use | 125,801 | 0.6% | 0.11 | 9 | \$231 | 42% | 1.05 |
| FE-Penelec | Motors: Rewind 51-100 HP | Mfg: Chemicals | Motors | New | end use | 125,801 | 0.6% | 0.11 | 9 | \$231 | 42% | 1.04 |
| FE-Penelec | Switch from Belt drive to Direct Drive | Mfg: Chemicals | Motors | Early | end use | 125,801 | 7.5% | 1.35 | 12 | \$2,018 | 30% | 1.72 |
| FE-Penelec | Switch from Belt drive to Direct Drive | Mfg: Chemicals | Motors | New | end use | 125,801 | 7.5% | 1.35 | 12 | \$2,018 | 30% | 1.72 |
| FE-Penelec | Switch from Belt drive to Direct Drive | Mfg: Chemicals | Motors | ROB | end use | 125,801 | 7.5% | 1.35 | 12 | \$2,018 | 30% | 1.72 |
| FE-Penelec | Synchronous Belts | Mfg: Chemicals | Motors | Early | end use | 125,801 | 1.2% | 0.21 | 10 | \$185 | 30% | 2.15 |
| FE-Penelec | Synchronous Belts | Mfg: Chemicals | Motors | New | end use | 125,801 | 1.2% | 0.21 | 10 | \$185 | 30% | 2.15 |
| FE-Penelec | Synchronous Belts | Mfg: Chemicals | Motors | ROB | end use | 125,801 | 1.2% | 0.21 | 10 | \$185 | 30% | 2.15 |
| FE-Penelec | Bldg Improvements | Mfg: Chemicals | Other | Existing | end use | 42,838 | 16% | 0.83 | 15 | \$934 | 72% | 2.85 |
| FE-Penelec | Bldg Improvements | Mfg: Chemicals | Other | New | end use | 42,838 | 16% | 0.83 | 15 | \$934 | 72% | 2.85 |
| FE-Penelec | Energy Project Management | Mfg: Chemicals | Other | Existing | end use | 42,838 | 29% | 1.48 | 11 | \$1,529 | 63% | 2.28 |
| FE-Penelec | Energy Project Management | Mfg: Chemicals | Other | New | end use | 42,838 | 29% | 1.48 | 11 | \$1,529 | 63% | 2.28 |
| FE-Penelec | Facility Energy Management | Mfg: Chemicals | Other | Existing | end use | 42,838 | 1.9% | 0.09 | 2 | \$17 | 76% | 1.11 |
| FE-Penelec | Facility Energy Management | Mfg: Chemicals | Other | New | end use | 42,838 | 1.9% | 0.09 | 2 | \$17 | 76% | 1.11 |
| FE-Penelec | Integrated Plant Energy Management | Mfg: Chemicals | Other | Existing | end use | 42,838 | 50% | 2.55 | 11 | \$4,222 | 48% | 1.65 |
| FE-Penelec | Integrated Plant Energy Management | Mfg: Chemicals | Other | New | end use | 42,838 | 50% | 2.55 | 11 | \$4,222 | 48% | 1.65 |
| FE-Penelec | Plant Energy Management | Mfg: Chemicals | Other | Existing | end use | 42,838 | 12% | 0.61 | 10 | \$108 | 55% | 4.51 |
| FE-Penelec | Plant Energy Management | Mfg: Chemicals | Other | New | end use | 42,838 | 12% | 0.61 | 10 | \$108 | 55% | 4.51 |
| FE-Penelec | Transformers | Mfg: Chemicals | Other | Early | end use | 42,838 | 1.6% | 0.08 | 15 | \$137 | 34% | 2.12 |
| FE-Penelec | Transformers | Mfg: Chemicals | Other | New | end use | 42,838 | 1.6% | 0.08 | 15 | \$137 | 34% | 2.12 |
| FE-Penelec | Transformers | Mfg: Chemicals | Other | ROB | end use | 42,838 | 1.6% | 0.08 | 15 | \$137 | 34% | 2.13 |
| FE-Penelec | Air Compressor Demand Reduction | Mfg: Chemicals | Process Air Compressor | Existing | end use | 1,514 | 26% | 0.05 | 10 | \$23 | 52% | 3.24 |
| FE-Penelec | Air Compressor Demand Reduction | Mfg: Chemicals | Process Air Compressor | New | end use | 1,514 | 26% | 0.05 | 10 | \$23 | 52% | 3.24 |
| FE-Penelec | Facility Energy Management | Mfg: Chemicals | Process Air Compressor | Existing | end use | 1,514 | 2.0% | 0.00 | 2 | \$0.6 | 66% | 1.13 |
| FE-Penelec | Facility Energy Management | Mfg: Chemicals | Process Air Compressor | New | end use | 1,514 | 1.9% | 0.00 | 2 | \$0.6 | 66% | 1.13 |
| FE-Penelec | HE Compressor motors | Mfg: Chemicals | Process Air Compressor | Early | end use | 1,514 | 1.1% | 0.00 | 15 | \$5.7 | 73% | 1.43 |
| FE-Penelec | HE Compressor motors | Mfg: Chemicals | Process Air Compressor | New | end use | 1,514 | 1.1% | 0.00 | 15 | \$5.7 | 73% | 1.44 |
| FE-Penelec | HE Compressor motors | Mfg: Chemicals | Process Air Compressor | ROB | end use | 1,514 | 1.1% | 0.00 | 15 | \$5.7 | 73% | 1.43 |
| FE-Penelec | Improved Controls - Air Compressor | Mfg: Chemicals | Process Air Compressor | Existing | end use | 1,514 | 41% | 0.08 | 10 | \$27 | 25% | 3.64 |
| FE-Penelec | Improved Controls - Air Compressor | Mfg: Chemicals | Process Air Compressor | New | end use | 1,514 | 41% | 0.08 | 10 | \$27 | 25% | 3.64 |
| FE-Penelec | Low Pressure-drop Filters | Mfg: Chemicals | Process Air Compressor | Existing | end use | 1,514 | 1.8% | 0.00 | 10 | \$17 | 61% | 0.61 |
| FE-Penelec | Low Pressure-drop Filters | Mfg: Chemicals | Process Air Compressor | New | end use | 1,514 | 1.8% | 0.00 | 10 | \$17 | 61% | 0.61 |
| FE-Penelec | Outside Air Intake | Mfg: Chemicals | Process Air Compressor | Existing | end use | 1,514 | 1.4% | 0.00 | 10 | \$10.0 | 48% | 0.79 |
| FE-Penelec | Outside Air Intake | Mfg: Chemicals | Process Air Compressor | New | end use | 1,514 | 1.4% | 0.00 | 10 | \$10.0 | 48% | 0.79 |
| FE-Penelec | Receiver Capacity Addition | Mfg: Chemicals | Process Air Compressor | Existing | end use | 1,514 | 6.0% | 0.01 | 10 | \$28 | 36% | 1.09 |
| FE-Penelec | Receiver Capacity Addition | Mfg: Chemicals | Process Air Compressor | New | end use | 1,514 | 5.9% | 0.01 | 10 | \$28 | 36% | 1.09 |
| FE-Penelec | Refrigerated Cycling Dryers | Mfg: Chemicals | Process Air Compressor | Early | end use | 1,514 | 1.7% | 0.00 | 10 | \$3.5 | 21% | 2.00 |
| FE-Penelec | Refrigerated Cycling Dryers | Mfg: Chemicals | Process Air Compressor | New | end use | 1,514 | 1.7% | 0.00 | 10 | \$3.5 | 21% | 2.00 |
| FE-Penelec | Refrigerated Cycling Dryers | Mfg: Chemicals | Process Air Compressor | ROB | end use | 1,514 | 1.7% | 0.00 | 10 | \$3.5 | 21% | 2.01 |
| FE-Penelec | VFD Controlled Compressor | Mfg: Chemicals | Process Air Compressor | Early | end use | 1,514 | 24% | 0.05 | 10 | \$149 | 28% | 0.86 |
| FE-Penelec | VFD Controlled Compressor | Mfg: Chemicals | Process Air Compressor | New | end use | 1,514 | 24% | 0.05 | 10 | \$149 | 28% | 0.86 |
| FE-Penelec | VFD Controlled Compressor | Mfg: Chemicals | Process Air Compressor | ROB | end use | 1,514 | 24% | 0.05 | 10 | \$149 | 28% | 0.86 |
| FE-Penelec | Zero Loss Condensate Drain | Mfg: Chemicals | Process Air Compressor | Early | end use | 1,514 | 1.9% | 0.00 | 10 | \$8.7 | 36% | 1.10 |
| FE-Penelec | Zero Loss Condensate Drain | Mfg: Chemicals | Process Air Compressor | New | end use | 1,514 | 1.9% | 0.00 | 10 | \$8.7 | 36% | 1.10 |
| FE-Penelec | Zero Loss Condensate Drain | Mfg: Chemicals | Process Air Compressor | ROB | end use | 1,514 | 1.9% | 0.00 | 10 | \$8.7 | 36% | 1.10 |
| FE-Penelec | Clean Room: Change Filter Strategy | Mfg: Chemicals | Process Cooling | Existing | end use | 124,014 | 40% | 10.34 | 1 | \$322 | 13% | 0.79 |
| FE-Penelec | Clean Room: Change Filter Strategy | Mfg: Chemicals | Process Cooling | New | end use | 124,014 | 40% | 10.34 | 1 | \$322 | 13% | 0.79 |
| FE-Penelec | Clean Room: Chiller Optimize | Mfg: Chemicals | Process Cooling | Existing | end use | 124,014 | 15% | 3.83 | 10 | \$1,497 | 21% | 2.94 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---------------------------------------|------------------|-----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Clean Room: Chiller Optimize | Mfg: Chemicals | Process Cooling | New | end use | 124,014 | 15% | 3.83 | 10 | \$1,497 | 21% | 2.94 |
| FE-Penelec | Clean Room: Clean Room HVAC | Mfg: Chemicals | Process Cooling | Existing | end use | 124,014 | 9.0% | 2.33 | 15 | \$1,807 | 31% | 2.71 |
| FE-Penelec | Clean Room: Clean Room HVAC | Mfg: Chemicals | Process Cooling | New | end use | 124,014 | 9.0% | 2.33 | 15 | \$1,807 | 31% | 2.71 |
| FE-Penelec | Cooling Tower Optimization | Mfg: Chemicals | Process Cooling | Existing | building | 67,776 | 20% | 5.62 | 10 | \$416 | 15% | 5.41 |
| FE-Penelec | Equipment: Chillers | Mfg: Chemicals | Process Cooling | Early | end use | 124,014 | 18% | 4.62 | 15 | \$5,820 | 39% | 1.89 |
| FE-Penelec | Equipment: Chillers | Mfg: Chemicals | Process Cooling | New | end use | 124,014 | 18% | 4.62 | 15 | \$5,820 | 39% | 1.89 |
| FE-Penelec | Equipment: Chillers | Mfg: Chemicals | Process Cooling | ROB | end use | 124,014 | 18% | 4.62 | 15 | \$5,820 | 39% | 1.89 |
| FE-Penelec | Facility Energy Management | Mfg: Chemicals | Process Cooling | Existing | end use | 124,014 | 1.9% | 0.48 | 2 | \$48 | 50% | 1.20 |
| FE-Penelec | Facility Energy Management | Mfg: Chemicals | Process Cooling | New | end use | 124,014 | 1.9% | 0.48 | 2 | \$48 | 50% | 1.20 |
| FE-Penelec | Improved Controls - Process Cooling | Mfg: Chemicals | Process Cooling | Existing | end use | 124,014 | 6.0% | 1.55 | 10 | \$6,548 | 47% | 0.47 |
| FE-Penelec | Improved Controls - Process Cooling | Mfg: Chemicals | Process Cooling | New | end use | 124,014 | 6.0% | 1.55 | 10 | \$6,548 | 47% | 0.47 |
| FE-Penelec | VFD on Cooling Tower Fan | Mfg: Chemicals | Process Cooling | Early | motor | 67,776 | 21% | 4.27 | 15 | \$3,129 | 20% | 2.39 |
| FE-Penelec | VFD on Cooling Tower Fan | Mfg: Chemicals | Process Cooling | New | motor | 67,776 | 22% | 4.27 | 15 | \$3,189 | 20% | 2.37 |
| FE-Penelec | VFD on Cooling Tower Fan | Mfg: Chemicals | Process Cooling | ROB | motor | 67,776 | 22% | 4.27 | 15 | \$3,189 | 20% | 2.37 |
| FE-Penelec | Improved Controls - Process Heating | Mfg: Chemicals | Process Heating | Existing | end use | 94,233 | 17% | 2.21 | 10 | \$1,083 | 77% | 3.00 |
| FE-Penelec | Improved Controls - Process Heating | Mfg: Chemicals | Process Heating | New | end use | 94,233 | 17% | 2.21 | 10 | \$1,083 | 77% | 3.00 |
| FE-Penelec | Process Heat O&M | Mfg: Chemicals | Process Heating | Existing | end use | 94,233 | 16% | 2.09 | 2 | \$654 | 77% | 0.90 |
| FE-Penelec | Process Heat O&M | Mfg: Chemicals | Process Heating | New | end use | 94,233 | 16% | 2.09 | 2 | \$654 | 77% | 0.90 |
| FE-Penelec | Facility Energy Management | Mfg: Chemicals | Process Other | Existing | end use | 382,288 | 1.9% | 0.99 | 2 | \$147 | 73% | 1.12 |
| FE-Penelec | Facility Energy Management | Mfg: Chemicals | Process Other | New | end use | 382,288 | 1.9% | 0.99 | 2 | \$147 | 73% | 1.12 |
| FE-Penelec | Adjustable speed drive on compressors | Mfg: Chemicals | Process Refrigeration | Early | end use | 63,705 | 12% | 1.09 | 10 | \$1,178 | 77% | 1.86 |
| FE-Penelec | Adjustable speed drive on compressors | Mfg: Chemicals | Process Refrigeration | New | end use | 63,705 | 12% | 1.09 | 10 | \$1,178 | 77% | 1.86 |
| FE-Penelec | Adjustable speed drive on compressors | Mfg: Chemicals | Process Refrigeration | ROB | end use | 63,705 | 12% | 1.09 | 10 | \$1,178 | 77% | 1.86 |
| FE-Penelec | Cooling Tower Optimization | Mfg: Chemicals | Process Refrigeration | Existing | building | 34,816 | 20% | 2.89 | 10 | \$214 | 15% | 5.41 |
| FE-Penelec | Optimization of operating parameters | Mfg: Chemicals | Process Refrigeration | Existing | end use | 63,705 | 13% | 1.22 | 3 | \$514 | 69% | 1.14 |
| FE-Penelec | Optimization of operating parameters | Mfg: Chemicals | Process Refrigeration | New | end use | 63,705 | 13% | 1.22 | 3 | \$514 | 69% | 1.14 |
| FE-Penelec | Synchronous Belts | Mfg: Chemicals | Process Refrigeration | Early | end use | 63,705 | 1.2% | 0.11 | 10 | \$94 | 77% | 2.16 |
| FE-Penelec | Synchronous Belts | Mfg: Chemicals | Process Refrigeration | New | end use | 63,705 | 1.2% | 0.11 | 10 | \$94 | 77% | 2.16 |
| FE-Penelec | Synchronous Belts | Mfg: Chemicals | Process Refrigeration | ROB | end use | 63,705 | 1.2% | 0.11 | 10 | \$94 | 77% | 2.16 |
| FE-Penelec | VFD on Cooling Tower Fan | Mfg: Chemicals | Process Refrigeration | Early | motor | 34,816 | 21% | 2.20 | 15 | \$1,608 | 20% | 2.39 |
| FE-Penelec | VFD on Cooling Tower Fan | Mfg: Chemicals | Process Refrigeration | New | motor | 34,816 | 22% | 2.20 | 15 | \$1,638 | 20% | 2.37 |
| FE-Penelec | VFD on Cooling Tower Fan | Mfg: Chemicals | Process Refrigeration | ROB | motor | 34,816 | 22% | 2.20 | 15 | \$1,638 | 20% | 2.37 |
| FE-Penelec | Facility Energy Management | Mfg: Chemicals | Pumps | Existing | end use | 705,185 | 1.9% | 1.69 | 2 | \$272 | 69% | 1.17 |
| FE-Penelec | Facility Energy Management | Mfg: Chemicals | Pumps | New | end use | 705,185 | 2.0% | 1.69 | 2 | \$272 | 69% | 1.18 |
| FE-Penelec | HE Motors | Mfg: Chemicals | Pumps | Early | end use | 705,185 | 2.0% | 1.88 | 15 | \$4,198 | 73% | 1.64 |
| FE-Penelec | HE Motors | Mfg: Chemicals | Pumps | New | end use | 705,185 | 2.0% | 1.88 | 15 | \$4,198 | 73% | 1.64 |
| FE-Penelec | HE Motors | Mfg: Chemicals | Pumps | ROB | end use | 705,185 | 2.0% | 1.88 | 15 | \$4,198 | 73% | 1.64 |
| FE-Penelec | Motor rewinds | Mfg: Chemicals | Pumps | Existing | end use | 705,185 | 0.6% | 0.55 | 9 | \$1,003 | 11% | 1.30 |
| FE-Penelec | Motor rewinds | Mfg: Chemicals | Pumps | New | end use | 705,185 | 0.6% | 0.55 | 9 | \$1,003 | 11% | 1.31 |
| FE-Penelec | Pump Equipment Upgrade | Mfg: Chemicals | Pumps | Early | end use | 705,185 | 20% | 18.35 | 12 | \$17,630 | 81% | 2.46 |
| FE-Penelec | Pump Equipment Upgrade | Mfg: Chemicals | Pumps | New | end use | 705,185 | 20% | 18.35 | 12 | \$17,630 | 81% | 2.46 |
| FE-Penelec | Pump Equipment Upgrade | Mfg: Chemicals | Pumps | ROB | end use | 705,185 | 20% | 18.35 | 12 | \$17,630 | 81% | 2.46 |
| FE-Penelec | Pump System Optimization | Mfg: Chemicals | Pumps | Existing | end use | 705,185 | 8.7% | 7.98 | 12 | \$12,912 | 38% | 1.78 |
| FE-Penelec | Pump System Optimization | Mfg: Chemicals | Pumps | New | end use | 705,185 | 8.7% | 7.98 | 12 | \$12,912 | 38% | 1.78 |
| FE-Penelec | Synchronous Belts | Mfg: Chemicals | Pumps | Early | end use | 705,185 | 1.2% | 1.07 | 10 | \$1,039 | 61% | 2.12 |
| FE-Penelec | Synchronous Belts | Mfg: Chemicals | Pumps | New | end use | 705,185 | 1.2% | 1.07 | 10 | \$1,039 | 61% | 2.12 |
| FE-Penelec | Synchronous Belts | Mfg: Chemicals | Pumps | ROB | end use | 705,185 | 1.2% | 1.07 | 10 | \$1,039 | 61% | 2.12 |
| FE-Penelec | Circulating Fans | Mfg: Comp & Elec | Fans | Early | end use | 22,507 | 5.0% | 0.13 | 10 | \$137 | 68% | 2.23 |
| FE-Penelec | Circulating Fans | Mfg: Comp & Elec | Fans | New | end use | 22,507 | 5.0% | 0.13 | 10 | \$137 | 68% | 2.23 |
| FE-Penelec | Circulating Fans | Mfg: Comp & Elec | Fans | ROB | end use | 22,507 | 5.0% | 0.13 | 10 | \$137 | 68% | 2.23 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|--|------------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Facility Energy Management | Mfg: Comp & Elec | Fans | Existing | end use | 22,507 | 1.9% | 0.05 | 2 | \$8.7 | 77% | 1.16 |
| FE-Penelec | Facility Energy Management | Mfg: Comp & Elec | Fans | New | end use | 22,507 | 1.9% | 0.05 | 2 | \$8.7 | 77% | 1.16 |
| FE-Penelec | HE Motors | Mfg: Comp & Elec | Fans | Early | end use | 22,507 | 2.0% | 0.05 | 15 | \$134 | 77% | 1.68 |
| FE-Penelec | HE Motors | Mfg: Comp & Elec | Fans | New | end use | 22,507 | 2.0% | 0.05 | 15 | \$134 | 77% | 1.68 |
| FE-Penelec | HE Motors | Mfg: Comp & Elec | Fans | ROB | end use | 22,507 | 2.0% | 0.05 | 15 | \$134 | 77% | 1.68 |
| FE-Penelec | Improved Controls - Fans | Mfg: Comp & Elec | Fans | Existing | end use | 22,507 | 7.1% | 0.19 | 10 | \$87 | 88% | 3.42 |
| FE-Penelec | Improved Controls - Fans | Mfg: Comp & Elec | Fans | New | end use | 22,507 | 7.1% | 0.19 | 10 | \$87 | 88% | 3.42 |
| FE-Penelec | Properly Sized Fans | Mfg: Comp & Elec | Fans | Early | end use | 22,507 | 13% | 0.35 | 10 | \$461 | 41% | 1.89 |
| FE-Penelec | Properly Sized Fans | Mfg: Comp & Elec | Fans | New | end use | 22,507 | 13% | 0.35 | 10 | \$461 | 41% | 1.89 |
| FE-Penelec | Properly Sized Fans | Mfg: Comp & Elec | Fans | ROB | end use | 22,507 | 13% | 0.35 | 10 | \$461 | 41% | 1.89 |
| FE-Penelec | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 87,585 | 9.2% | 2.08 | 15 | \$15,962 | 28% | 0.34 |
| FE-Penelec | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Comp & Elec | HVAC | New | unit (ton) | 87,585 | 4.1% | 0.94 | 15 | \$3,867 | 28% | 0.62 |
| FE-Penelec | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 87,585 | 4.1% | 0.94 | 15 | \$3,867 | 28% | 0.62 |
| FE-Penelec | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 87,585 | 12% | 2.82 | 15 | \$18,817 | 28% | 0.39 |
| FE-Penelec | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Comp & Elec | HVAC | New | unit (ton) | 87,585 | 7.7% | 1.75 | 15 | \$8,145 | 28% | 0.55 |
| FE-Penelec | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 87,585 | 7.7% | 1.75 | 15 | \$8,145 | 28% | 0.55 |
| FE-Penelec | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 87,585 | 15% | 3.46 | 15 | \$21,673 | 29% | 0.42 |
| FE-Penelec | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Comp & Elec | HVAC | New | unit (ton) | 87,585 | 11% | 2.46 | 15 | \$12,423 | 29% | 0.51 |
| FE-Penelec | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 87,585 | 11% | 2.46 | 15 | \$12,423 | 29% | 0.51 |
| FE-Penelec | >760k min 10.2 EER Air Conditioner | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 87,585 | 2.1% | 0.48 | 15 | \$27,797 | 35% | 0.05 |
| FE-Penelec | >760k min 10.2 EER Air Conditioner | Mfg: Comp & Elec | HVAC | New | unit (ton) | 87,585 | 2.8% | 0.64 | 15 | \$2,512 | 35% | 0.65 |
| FE-Penelec | >760k min 10.2 EER Air Conditioner | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 87,585 | 2.8% | 0.64 | 15 | \$2,512 | 35% | 0.65 |
| FE-Penelec | 135-240k min 12 EER Air Conditioner | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 87,585 | 10% | 2.38 | 15 | \$30,099 | 35% | 0.21 |
| FE-Penelec | 135-240k min 12 EER Air Conditioner | Mfg: Comp & Elec | HVAC | New | unit (ton) | 87,585 | 5.8% | 1.31 | 15 | \$3,554 | 35% | 0.91 |
| FE-Penelec | 135-240k min 12 EER Air Conditioner | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 87,585 | 5.8% | 1.31 | 15 | \$3,554 | 35% | 0.91 |
| FE-Penelec | 240k-760k min 11 EER Air Conditioner | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 87,585 | 5.2% | 1.18 | 15 | \$27,814 | 35% | 0.11 |
| FE-Penelec | 240k-760k min 11 EER Air Conditioner | Mfg: Comp & Elec | HVAC | New | unit (ton) | 87,585 | 5.3% | 1.21 | 15 | \$2,980 | 35% | 0.99 |
| FE-Penelec | 240k-760k min 11 EER Air Conditioner | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 87,585 | 5.3% | 1.21 | 15 | \$2,980 | 35% | 0.99 |
| FE-Penelec | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 87,585 | 9.7% | 2.20 | 15 | \$30,819 | 35% | 0.19 |
| FE-Penelec | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Comp & Elec | HVAC | New | unit (ton) | 87,585 | 3.8% | 0.87 | 15 | \$4,397 | 35% | 0.51 |
| FE-Penelec | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 87,585 | 3.8% | 0.87 | 15 | \$4,397 | 35% | 0.51 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Mfg: Comp & Elec | HVAC | Existing | building | 114,708 | 5.9% | 1.70 | 15 | \$347,547 | 71% | 0.01 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Mfg: Comp & Elec | HVAC | New | building | 114,708 | 3.7% | 1.07 | 15 | \$330,353 | 94% | 0.01 |
| FE-Penelec | Chiller Tuneup/Diagnostics | Mfg: Comp & Elec | HVAC | Existing | building | 114,708 | 8.0% | 3.36 | 10 | \$292,901 | 59% | 0.02 |
| FE-Penelec | Chiller Tuneup/Diagnostics | Mfg: Comp & Elec | HVAC | New | building | 114,708 | 8.0% | 3.37 | 10 | \$292,901 | 59% | 0.02 |
| FE-Penelec | Cooling Tower Optimization | Mfg: Comp & Elec | HVAC | Existing | building | 114,708 | 20% | 8.21 | 10 | \$703 | 69% | 5.43 |
| FE-Penelec | Duct Insulation, Add R8 | Mfg: Comp & Elec | HVAC | Existing | building | 114,708 | 1.5% | 0.37 | 15 | \$911 | 18% | 1.15 |
| FE-Penelec | Duct Insulation, Add R8 | Mfg: Comp & Elec | HVAC | New | building | 114,708 | 1.5% | 0.37 | 15 | \$911 | 9% | 1.15 |
| FE-Penelec | Ductless Heat Pump | Mfg: Comp & Elec | HVAC | Early | heat pump | 87,585 | 0.8% | 0.16 | 15 | \$6,924 | 83% | 0.07 |
| FE-Penelec | Ductless Heat Pump | Mfg: Comp & Elec | HVAC | New | heat pump | 87,585 | 0.4% | 0.09 | 15 | \$2,011 | 83% | 0.13 |
| FE-Penelec | Ductless Heat Pump | Mfg: Comp & Elec | HVAC | ROB | heat pump | 87,585 | 0.4% | 0.09 | 15 | \$2,011 | 83% | 0.13 |
| FE-Penelec | DX Coil Cleaning | Mfg: Comp & Elec | HVAC | Existing | building | 114,708 | 13% | 5.26 | 1 | \$1,099 | 73% | 0.51 |
| FE-Penelec | DX Coil Cleaning | Mfg: Comp & Elec | HVAC | New | building | 114,708 | 13% | 5.26 | 1 | \$1,099 | 73% | 0.51 |
| FE-Penelec | Efficient Unit Heating System | Mfg: Comp & Elec | HVAC | Early | heater | 87,585 | 6.9% | 0.05 | 15 | \$4,728 | 83% | 0.64 |
| FE-Penelec | Efficient Unit Heating System | Mfg: Comp & Elec | HVAC | New | heater | 87,585 | 4.0% | 0.03 | 15 | \$3,225 | 83% | 0.54 |
| FE-Penelec | Efficient Unit Heating System | Mfg: Comp & Elec | HVAC | ROB | heater | 87,585 | 4.0% | 0.03 | 15 | \$3,225 | 83% | 0.54 |
| FE-Penelec | Ground Source Heat Pump (Closed Loop) | Mfg: Comp & Elec | HVAC | Early | heat pump | 87,585 | 1.3% | 0.25 | 15 | \$14,378 | 19% | 0.05 |
| FE-Penelec | Ground Source Heat Pump (Closed Loop) | Mfg: Comp & Elec | HVAC | New | heat pump | 87,585 | 1.0% | 0.20 | 15 | \$5,677 | 19% | 0.11 |
| FE-Penelec | Ground Source Heat Pump (Closed Loop) | Mfg: Comp & Elec | HVAC | ROB | heat pump | 87,585 | 1.0% | 0.20 | 15 | \$5,677 | 19% | 0.11 |
| FE-Penelec | Ground Source Heat Pump (Open Loop) | Mfg: Comp & Elec | HVAC | Early | heat pump | 87,585 | 1.3% | 0.25 | 15 | \$9,208 | 19% | 0.08 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|------------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Ground Source Heat Pump (Open Loop) | Mfg: Comp & Elec | HVAC | New | heat pump | 87,585 | 1.0% | 0.20 | 15 | \$195 | 19% | 2.35 |
| FE-Penelec | Ground Source Heat Pump (Open Loop) | Mfg: Comp & Elec | HVAC | ROB | heat pump | 87,585 | 1.0% | 0.20 | 15 | \$195 | 19% | 2.35 |
| FE-Penelec | HE Air Cooled Chiller, 100 Tons | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 87,585 | 1.5% | 0.29 | 15 | \$101,885 | 89% | 0.01 |
| FE-Penelec | HE Air Cooled Chiller, 100 Tons | Mfg: Comp & Elec | HVAC | New | unit (ton) | 87,585 | 0.4% | 0.08 | 15 | \$14,843 | 89% | 0.02 |
| FE-Penelec | HE Air Cooled Chiller, 100 Tons | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 87,585 | 0.4% | 0.08 | 15 | \$14,843 | 89% | 0.02 |
| FE-Penelec | HE Air Cooled Chiller, 150 Tons | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 87,585 | 1.4% | 0.28 | 15 | \$88,006 | 89% | 0.01 |
| FE-Penelec | HE Air Cooled Chiller, 150 Tons | Mfg: Comp & Elec | HVAC | New | unit (ton) | 87,585 | 0.3% | 0.06 | 15 | \$7,289 | 89% | 0.02 |
| FE-Penelec | HE Air Cooled Chiller, 150 Tons | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 87,585 | 0.3% | 0.06 | 15 | \$7,289 | 89% | 0.02 |
| FE-Penelec | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Comp & Elec | HVAC | Early | heat pump | 87,585 | 1.4% | 0.27 | 12 | \$3,753 | 81% | 0.17 |
| FE-Penelec | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Comp & Elec | HVAC | Early | heat pump | 87,585 | 1.1% | 0.22 | 12 | \$2,742 | 81% | 0.19 |
| FE-Penelec | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Comp & Elec | HVAC | New | heat pump | 87,585 | 1.0% | 0.20 | 12 | \$1,676 | 81% | 0.28 |
| FE-Penelec | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Comp & Elec | HVAC | New | heat pump | 87,585 | 0.8% | 0.15 | 12 | \$586 | 81% | 0.58 |
| FE-Penelec | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Comp & Elec | HVAC | ROB | heat pump | 87,585 | 1.0% | 0.20 | 12 | \$1,676 | 81% | 0.28 |
| FE-Penelec | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Comp & Elec | HVAC | ROB | heat pump | 87,585 | 0.8% | 0.15 | 12 | \$586 | 81% | 0.58 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 87,585 | 1.6% | 0.31 | 15 | \$8,084 | 89% | 0.12 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Comp & Elec | HVAC | New | unit (ton) | 87,585 | 0.9% | 0.18 | 15 | \$2,689 | 89% | 0.20 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 87,585 | 0.9% | 0.18 | 15 | \$2,689 | 89% | 0.20 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 87,585 | 1.4% | 0.28 | 15 | \$7,895 | 89% | 0.11 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Comp & Elec | HVAC | New | unit (ton) | 87,585 | 1.0% | 0.19 | 15 | \$1,542 | 89% | 0.37 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 87,585 | 1.4% | 0.28 | 15 | \$1,416 | 89% | 0.56 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 87,585 | 1.4% | 0.27 | 15 | \$9,344 | 89% | 0.09 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Comp & Elec | HVAC | New | unit (ton) | 87,585 | 0.9% | 0.18 | 15 | \$3,934 | 89% | 0.13 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 87,585 | 1.4% | 0.27 | 15 | \$3,561 | 89% | 0.23 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 87,585 | 1.4% | 0.27 | 15 | \$9,001 | 89% | 0.09 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Comp & Elec | HVAC | New | unit (ton) | 87,585 | 0.9% | 0.18 | 15 | \$3,420 | 89% | 0.15 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 87,585 | 1.4% | 0.27 | 15 | \$3,095 | 89% | 0.26 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 87,585 | 1.8% | 0.35 | 15 | \$9,699 | 89% | 0.11 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Comp & Elec | HVAC | New | unit (ton) | 87,585 | 0.5% | 0.11 | 15 | \$6,006 | 89% | 0.05 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 87,585 | 1.8% | 0.35 | 15 | \$4,663 | 89% | 0.23 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 87,585 | 2.1% | 0.42 | 15 | \$8,921 | 89% | 0.14 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Comp & Elec | HVAC | New | unit (ton) | 87,585 | 0.8% | 0.15 | 15 | \$3,580 | 89% | 0.13 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 87,585 | 0.8% | 0.15 | 15 | \$3,580 | 89% | 0.13 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 87,585 | 2.4% | 0.47 | 15 | \$7,561 | 89% | 0.19 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Comp & Elec | HVAC | New | unit (ton) | 87,585 | 0.9% | 0.18 | 15 | \$1,903 | 89% | 0.27 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 87,585 | 2.4% | 0.47 | 15 | \$1,356 | 89% | 0.95 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 87,585 | 1.8% | 0.36 | 15 | \$7,485 | 89% | 0.14 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Comp & Elec | HVAC | New | unit (ton) | 87,585 | 0.7% | 0.13 | 15 | \$2,096 | 89% | 0.19 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 87,585 | 1.8% | 0.36 | 15 | \$1,661 | 89% | 0.61 |
| FE-Penelec | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Comp & Elec | HVAC | Existing | building | 114,708 | 2.9% | 0.67 | 5 | \$1,217 | 55% | 0.61 |
| FE-Penelec | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Comp & Elec | HVAC | New | building | 114,708 | 0.6% | 0.27 | 5 | \$730 | 51% | 0.29 |
| FE-Penelec | Improved Controls - HVAC | Mfg: Comp & Elec | HVAC | Existing | end use | 114,708 | 21% | 3.44 | 10 | \$1,206 | 76% | 3.68 |
| FE-Penelec | Improved Controls - HVAC | Mfg: Comp & Elec | HVAC | New | end use | 114,708 | 21% | 3.44 | 10 | \$1,206 | 76% | 3.68 |
| FE-Penelec | Outside Air Economizer | Mfg: Comp & Elec | HVAC | Existing | building | 114,708 | 1.1% | 0.32 | 10 | \$421,459 | 82% | 0.00 |
| FE-Penelec | Outside Air Economizer | Mfg: Comp & Elec | HVAC | New | building | 114,708 | 1.1% | 0.32 | 10 | \$421,459 | 82% | 0.00 |
| FE-Penelec | Recommissioning | Mfg: Comp & Elec | HVAC | Existing | end use | 114,708 | 5.0% | 0.82 | 10 | \$157 | 88% | 4.54 |
| FE-Penelec | Recommissioning | Mfg: Comp & Elec | HVAC | New | end use | 114,708 | 5.0% | 0.82 | 10 | \$157 | 88% | 4.54 |
| FE-Penelec | Room AC (with louvered sides) | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 87,585 | 7.7% | 1.52 | 9 | \$6,868 | 78% | 0.41 |
| FE-Penelec | Room AC (with louvered sides) | Mfg: Comp & Elec | HVAC | New | unit (ton) | 87,585 | 2.6% | 0.51 | 9 | \$376 | 78% | 1.88 |
| FE-Penelec | Room AC (with louvered sides) | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 87,585 | 2.6% | 0.51 | 9 | \$376 | 78% | 1.88 |
| FE-Penelec | Variable Refrigerant Flow Heat Pump | Mfg: Comp & Elec | HVAC | New | measure | 87,585 | 0.1% | 0.02 | 13 | \$645 | 43% | 0.09 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---------------------------------------|------------------|----------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Variable Refrigerant Flow Heat Pump | Mfg: Comp & Elec | HVAC | ROB | measure | 87,585 | 0.1% | 0.02 | 13 | \$645 | 43% | 0.09 |
| FE-Penelec | VFD on Cooling Tower Fan | Mfg: Comp & Elec | HVAC | Early | motor | 87,585 | 21% | 5.52 | 15 | \$4,044 | 15% | 2.54 |
| FE-Penelec | VFD on Cooling Tower Fan | Mfg: Comp & Elec | HVAC | New | motor | 87,585 | 22% | 5.52 | 15 | \$4,121 | 15% | 2.52 |
| FE-Penelec | VFD on Cooling Tower Fan | Mfg: Comp & Elec | HVAC | ROB | motor | 87,585 | 22% | 5.52 | 15 | \$4,121 | 15% | 2.52 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Mfg: Comp & Elec | HVAC | Existing | building | 114,708 | 19% | 5.48 | 15 | \$81,599 | 26% | 0.18 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Mfg: Comp & Elec | HVAC | New | building | 114,708 | 0.6% | 0.18 | 15 | \$62,591 | 94% | 0.01 |
| FE-Penelec | Water Source Heat Pump (4 ton) | Mfg: Comp & Elec | HVAC | Early | heat pump | 87,585 | 1.5% | 0.30 | 15 | \$14,889 | 28% | 0.06 |
| FE-Penelec | Water Source Heat Pump (4 ton) | Mfg: Comp & Elec | HVAC | New | heat pump | 87,585 | 1.1% | 0.22 | 15 | \$7,257 | 28% | 0.09 |
| FE-Penelec | Water Source Heat Pump (4 ton) | Mfg: Comp & Elec | HVAC | ROB | heat pump | 87,585 | 1.1% | 0.22 | 15 | \$7,257 | 28% | 0.09 |
| FE-Penelec | Efficient Metal Halide (High Bay) | Mfg: Comp & Elec | Lighting | Early | end use | 35,901 | 42% | 0.00 | 9 | \$5,610 | 53% | 0.76 |
| FE-Penelec | Efficient Metal Halide (High Bay) | Mfg: Comp & Elec | Lighting | New | end use | 35,901 | 41% | 0.00 | 13 | \$149,844 | 61% | 0.05 |
| FE-Penelec | Efficient Metal Halide (High Bay) | Mfg: Comp & Elec | Lighting | ROB | end use | 35,901 | 41% | 0.00 | 13 | \$114,519 | 61% | 0.06 |
| FE-Penelec | Induction (High Bay) | Mfg: Comp & Elec | Lighting | Early | end use | 35,901 | 94% | 0.00 | 13 | \$16,692 | 95% | 0.82 |
| FE-Penelec | Induction (High Bay) | Mfg: Comp & Elec | Lighting | New | end use | 35,901 | 94% | 0.00 | 13 | \$15,628 | 95% | 0.87 |
| FE-Penelec | Induction (High Bay) | Mfg: Comp & Elec | Lighting | ROB | end use | 35,901 | 94% | 0.00 | 13 | \$11,878 | 95% | 1.10 |
| FE-Penelec | LED (High Bay) | Mfg: Comp & Elec | Lighting | Early | end use | 35,901 | 69% | 0.00 | 14 | \$19,649 | 95% | 0.57 |
| FE-Penelec | LED (High Bay) | Mfg: Comp & Elec | Lighting | New | end use | 35,901 | 55% | 0.00 | 14 | \$21,810 | 95% | 0.42 |
| FE-Penelec | LED (High Bay) | Mfg: Comp & Elec | Lighting | ROB | end use | 35,901 | 59% | 0.00 | 14 | \$14,370 | 95% | 0.66 |
| FE-Penelec | Lighting Controls | Mfg: Comp & Elec | Lighting | Existing | end use | 35,901 | 20% | 0.00 | 6 | \$134,589 | 16% | 0.01 |
| FE-Penelec | Lighting Controls | Mfg: Comp & Elec | Lighting | New | end use | 35,901 | 12% | 0.00 | 10 | \$179,047 | 11% | 0.01 |
| FE-Penelec | Linear Fluorescent (High Bay) | Mfg: Comp & Elec | Lighting | Early | end use | 35,901 | 17% | 0.00 | 14 | \$4,108 | 98% | 0.66 |
| FE-Penelec | Linear Fluorescent (High Bay) | Mfg: Comp & Elec | Lighting | New | end use | 35,901 | 13% | 0.00 | 14 | \$1,303 | 91% | 1.39 |
| FE-Penelec | Linear Fluorescent (High Bay) | Mfg: Comp & Elec | Lighting | ROB | end use | 35,901 | 13% | 0.00 | 14 | \$834 | 91% | 2.01 |
| FE-Penelec | Metal Halide (High Bay) | Mfg: Comp & Elec | Lighting | Early | end use | 35,901 | 62% | 0.00 | 13 | \$24,680 | 38% | 0.39 |
| FE-Penelec | Metal Halide (High Bay) | Mfg: Comp & Elec | Lighting | New | end use | 35,901 | 73% | 0.00 | 13 | \$5,901 | 38% | 1.56 |
| FE-Penelec | Metal Halide (High Bay) | Mfg: Comp & Elec | Lighting | ROB | end use | 35,901 | 73% | 0.00 | 13 | \$4,484 | 38% | 1.91 |
| FE-Penelec | Screw Base CFL | Mfg: Comp & Elec | Lighting | Early | end use | 35,901 | 80% | 0.00 | 7 | \$9,754 | 17% | 0.66 |
| FE-Penelec | Screw Base CFL | Mfg: Comp & Elec | Lighting | New | end use | 35,901 | 73% | 0.00 | 9 | \$7,971 | 18% | 0.90 |
| FE-Penelec | Screw Base CFL | Mfg: Comp & Elec | Lighting | ROB | end use | 35,901 | 73% | 0.00 | 9 | \$6,672 | 17% | 1.03 |
| FE-Penelec | Screw Base LED | Mfg: Comp & Elec | Lighting | Early | end use | 35,901 | 76% | 0.00 | 9 | \$5,986 | 21% | 1.21 |
| FE-Penelec | Screw Base LED | Mfg: Comp & Elec | Lighting | New | end use | 35,901 | 77% | 0.00 | 9 | \$3,334 | 20% | 1.84 |
| FE-Penelec | Screw Base LED | Mfg: Comp & Elec | Lighting | ROB | end use | 35,901 | 77% | 0.00 | 9 | \$2,647 | 21% | 2.11 |
| FE-Penelec | T8 High Performance Linear Florescent | Mfg: Comp & Elec | Lighting | Early | end use | 35,901 | 36% | 0.00 | 14 | \$3,435 | 71% | 1.48 |
| FE-Penelec | T8 High Performance Linear Florescent | Mfg: Comp & Elec | Lighting | New | end use | 35,901 | 26% | 0.00 | 14 | \$1,229 | 76% | 2.49 |
| FE-Penelec | T8 High Performance Linear Florescent | Mfg: Comp & Elec | Lighting | ROB | end use | 35,901 | 26% | 0.00 | 14 | \$934 | 76% | 2.94 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Comp & Elec | Motors | Early | end use | 7,106 | 0.9% | 0.01 | 15 | \$109 | 81% | 0.35 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Comp & Elec | Motors | New | end use | 7,106 | 0.9% | 0.01 | 15 | \$109 | 81% | 0.34 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Comp & Elec | Motors | ROB | end use | 7,106 | 0.9% | 0.01 | 15 | \$109 | 81% | 0.34 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Comp & Elec | Motors | Early | end use | 7,106 | 0.8% | 0.01 | 15 | \$66 | 73% | 0.46 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Comp & Elec | Motors | New | end use | 7,106 | 0.8% | 0.01 | 15 | \$66 | 73% | 0.46 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Comp & Elec | Motors | ROB | end use | 7,106 | 0.7% | 0.01 | 15 | \$66 | 73% | 0.46 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Comp & Elec | Motors | Early | end use | 7,106 | 0.4% | 0.00 | 15 | \$25 | 81% | 0.69 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Comp & Elec | Motors | New | end use | 7,106 | 0.5% | 0.00 | 15 | \$25 | 81% | 0.72 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Comp & Elec | Motors | ROB | end use | 7,106 | 0.5% | 0.00 | 15 | \$25 | 81% | 0.71 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Comp & Elec | Motors | Early | end use | 7,106 | 0.4% | 0.00 | 15 | \$8.3 | 73% | 1.66 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Comp & Elec | Motors | New | end use | 7,106 | 0.4% | 0.00 | 15 | \$8.3 | 73% | 1.62 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Comp & Elec | Motors | ROB | end use | 7,106 | 0.4% | 0.00 | 15 | \$8.3 | 73% | 1.65 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Comp & Elec | Motors | Early | end use | 7,106 | 0.9% | 0.01 | 15 | \$12 | 47% | 2.30 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Comp & Elec | Motors | New | end use | 7,106 | 0.9% | 0.01 | 15 | \$12 | 47% | 2.30 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Comp & Elec | Motors | ROB | end use | 7,106 | 0.9% | 0.01 | 15 | \$12 | 47% | 2.31 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|--|------------------|------------------------|----------|---------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Facility Energy Management | Mfg: Comp & Elec | Motors | Existing | end use | 7,106 | 1.9% | 0.02 | 2 | \$2.7 | 77% | 1.15 |
| FE-Penelec | Facility Energy Management | Mfg: Comp & Elec | Motors | New | end use | 7,106 | 1.8% | 0.02 | 2 | \$2.7 | 77% | 1.14 |
| FE-Penelec | HE Motors | Mfg: Comp & Elec | Motors | Early | end use | 7,106 | 2.0% | 0.02 | 15 | \$42 | 38% | 1.66 |
| FE-Penelec | HE Motors | Mfg: Comp & Elec | Motors | New | end use | 7,106 | 2.0% | 0.02 | 15 | \$42 | 38% | 1.66 |
| FE-Penelec | HE Motors | Mfg: Comp & Elec | Motors | ROB | end use | 7,106 | 2.0% | 0.02 | 15 | \$42 | 38% | 1.66 |
| FE-Penelec | High-Efficiency Ventilation System | Mfg: Comp & Elec | Motors | Early | end use | 7,106 | 5.7% | 0.06 | 10 | \$444 | 73% | 0.36 |
| FE-Penelec | High-Efficiency Ventilation System | Mfg: Comp & Elec | Motors | New | end use | 7,106 | 5.7% | 0.06 | 10 | \$444 | 73% | 0.36 |
| FE-Penelec | High-Efficiency Ventilation System | Mfg: Comp & Elec | Motors | ROB | end use | 7,106 | 5.7% | 0.06 | 10 | \$444 | 73% | 0.36 |
| FE-Penelec | Improved Controls - Motors | Mfg: Comp & Elec | Motors | Existing | end use | 7,106 | 4.0% | 0.04 | 10 | \$31 | 73% | 2.35 |
| FE-Penelec | Improved Controls - Motors | Mfg: Comp & Elec | Motors | New | end use | 7,106 | 4.0% | 0.04 | 10 | \$31 | 73% | 2.35 |
| FE-Penelec | Motor Management Plan | Mfg: Comp & Elec | Motors | Existing | end use | 7,106 | 2.9% | 0.03 | 10 | \$14 | 73% | 3.00 |
| FE-Penelec | Motor Management Plan | Mfg: Comp & Elec | Motors | New | end use | 7,106 | 2.9% | 0.03 | 10 | \$14 | 73% | 3.01 |
| FE-Penelec | Motors Other | Mfg: Comp & Elec | Motors | Existing | end use | 7,106 | 1.1% | 0.01 | 15 | \$1.4 | 83% | 6.77 |
| FE-Penelec | Motors Other | Mfg: Comp & Elec | Motors | New | end use | 7,106 | 1.1% | 0.01 | 15 | \$1.4 | 83% | 6.77 |
| FE-Penelec | Motors: Rewind 101-200 HP | Mfg: Comp & Elec | Motors | Existing | end use | 7,106 | 0.6% | 0.01 | 10 | \$9.0 | 27% | 1.42 |
| FE-Penelec | Motors: Rewind 101-200 HP | Mfg: Comp & Elec | Motors | New | end use | 7,106 | 0.6% | 0.01 | 10 | \$9.0 | 27% | 1.42 |
| FE-Penelec | Motors: Rewind 201-500 HP | Mfg: Comp & Elec | Motors | Existing | end use | 7,106 | 0.6% | 0.01 | 8 | \$5.6 | 27% | 1.66 |
| FE-Penelec | Motors: Rewind 201-500 HP | Mfg: Comp & Elec | Motors | New | end use | 7,106 | 0.6% | 0.01 | 8 | \$5.6 | 27% | 1.65 |
| FE-Penelec | Motors: Rewind 20-50 HP | Mfg: Comp & Elec | Motors | Existing | end use | 7,106 | 1.0% | 0.01 | 11 | \$26 | 42% | 1.07 |
| FE-Penelec | Motors: Rewind 20-50 HP | Mfg: Comp & Elec | Motors | New | end use | 7,106 | 1.0% | 0.01 | 11 | \$26 | 42% | 1.07 |
| FE-Penelec | Motors: Rewind 500+ HP | Mfg: Comp & Elec | Motors | Existing | end use | 7,106 | 0.6% | 0.01 | 8 | \$4.0 | 11% | 2.08 |
| FE-Penelec | Motors: Rewind 500+ HP | Mfg: Comp & Elec | Motors | New | end use | 7,106 | 0.6% | 0.01 | 8 | \$4.0 | 11% | 2.07 |
| FE-Penelec | Motors: Rewind 51-100 HP | Mfg: Comp & Elec | Motors | Existing | end use | 7,106 | 0.6% | 0.01 | 9 | \$13 | 42% | 1.06 |
| FE-Penelec | Motors: Rewind 51-100 HP | Mfg: Comp & Elec | Motors | New | end use | 7,106 | 0.6% | 0.01 | 9 | \$13 | 42% | 1.06 |
| FE-Penelec | Switch from Belt drive to Direct Drive | Mfg: Comp & Elec | Motors | Early | end use | 7,106 | 7.5% | 0.08 | 12 | \$114 | 30% | 1.72 |
| FE-Penelec | Switch from Belt drive to Direct Drive | Mfg: Comp & Elec | Motors | New | end use | 7,106 | 7.5% | 0.08 | 12 | \$114 | 30% | 1.72 |
| FE-Penelec | Switch from Belt drive to Direct Drive | Mfg: Comp & Elec | Motors | ROB | end use | 7,106 | 7.5% | 0.08 | 12 | \$114 | 30% | 1.72 |
| FE-Penelec | Bldg Improvements | Mfg: Comp & Elec | Other | Existing | end use | 20,741 | 16% | 0.40 | 15 | \$452 | 72% | 2.85 |
| FE-Penelec | Bldg Improvements | Mfg: Comp & Elec | Other | New | end use | 20,741 | 16% | 0.40 | 15 | \$452 | 72% | 2.85 |
| FE-Penelec | Energy Project Management | Mfg: Comp & Elec | Other | Existing | end use | 20,741 | 29% | 0.72 | 11 | \$740 | 63% | 2.28 |
| FE-Penelec | Energy Project Management | Mfg: Comp & Elec | Other | New | end use | 20,741 | 29% | 0.72 | 11 | \$740 | 63% | 2.28 |
| FE-Penelec | Facility Energy Management | Mfg: Comp & Elec | Other | Existing | end use | 20,741 | 1.9% | 0.05 | 2 | \$8.0 | 76% | 1.12 |
| FE-Penelec | Facility Energy Management | Mfg: Comp & Elec | Other | New | end use | 20,741 | 1.9% | 0.05 | 2 | \$8.0 | 76% | 1.11 |
| FE-Penelec | Integrated Plant Energy Management | Mfg: Comp & Elec | Other | Existing | end use | 20,741 | 50% | 1.23 | 11 | \$2,044 | 48% | 1.65 |
| FE-Penelec | Integrated Plant Energy Management | Mfg: Comp & Elec | Other | New | end use | 20,741 | 50% | 1.23 | 11 | \$2,044 | 48% | 1.65 |
| FE-Penelec | Plant Energy Management | Mfg: Comp & Elec | Other | Existing | end use | 20,741 | 12% | 0.30 | 10 | \$52 | 55% | 4.51 |
| FE-Penelec | Plant Energy Management | Mfg: Comp & Elec | Other | New | end use | 20,741 | 12% | 0.30 | 10 | \$52 | 55% | 4.51 |
| FE-Penelec | Transformers | Mfg: Comp & Elec | Other | Early | end use | 20,741 | 1.6% | 0.04 | 15 | \$66 | 34% | 2.12 |
| FE-Penelec | Transformers | Mfg: Comp & Elec | Other | New | end use | 20,741 | 1.6% | 0.04 | 15 | \$66 | 34% | 2.12 |
| FE-Penelec | Transformers | Mfg: Comp & Elec | Other | ROB | end use | 20,741 | 1.6% | 0.04 | 15 | \$66 | 34% | 2.13 |
| FE-Penelec | Air Compressor Demand Reduction | Mfg: Comp & Elec | Process Air Compressor | Existing | end use | 1,395 | 26% | 0.05 | 10 | \$21 | 52% | 3.24 |
| FE-Penelec | Air Compressor Demand Reduction | Mfg: Comp & Elec | Process Air Compressor | New | end use | 1,395 | 26% | 0.05 | 10 | \$21 | 52% | 3.24 |
| FE-Penelec | Facility Energy Management | Mfg: Comp & Elec | Process Air Compressor | Existing | end use | 1,395 | 1.9% | 0.00 | 2 | \$0.5 | 66% | 1.13 |
| FE-Penelec | Facility Energy Management | Mfg: Comp & Elec | Process Air Compressor | New | end use | 1,395 | 1.9% | 0.00 | 2 | \$0.5 | 66% | 1.13 |
| FE-Penelec | HE Compressor motors | Mfg: Comp & Elec | Process Air Compressor | Early | end use | 1,395 | 1.1% | 0.00 | 15 | \$5.3 | 73% | 1.45 |
| FE-Penelec | HE Compressor motors | Mfg: Comp & Elec | Process Air Compressor | New | end use | 1,395 | 1.1% | 0.00 | 15 | \$5.3 | 73% | 1.44 |
| FE-Penelec | HE Compressor motors | Mfg: Comp & Elec | Process Air Compressor | ROB | end use | 1,395 | 1.1% | 0.00 | 15 | \$5.3 | 73% | 1.44 |
| FE-Penelec | Improved Controls - Air Compressor | Mfg: Comp & Elec | Process Air Compressor | Existing | end use | 1,395 | 41% | 0.07 | 10 | \$25 | 25% | 3.64 |
| FE-Penelec | Improved Controls - Air Compressor | Mfg: Comp & Elec | Process Air Compressor | New | end use | 1,395 | 41% | 0.07 | 10 | \$25 | 25% | 3.64 |
| FE-Penelec | Low Pressure-drop Filters | Mfg: Comp & Elec | Process Air Compressor | Existing | end use | 1,395 | 1.9% | 0.00 | 10 | \$16 | 61% | 0.61 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---------------------------------------|------------------|------------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Low Pressure-drop Filters | Mfg: Comp & Elec | Process Air Compressor | New | end use | 1,395 | 1.8% | 0.00 | 10 | \$16 | 61% | 0.61 |
| FE-Penelec | Outside Air Intake | Mfg: Comp & Elec | Process Air Compressor | Existing | end use | 1,395 | 1.4% | 0.00 | 10 | \$9.2 | 48% | 0.79 |
| FE-Penelec | Outside Air Intake | Mfg: Comp & Elec | Process Air Compressor | New | end use | 1,395 | 1.4% | 0.00 | 10 | \$9.2 | 48% | 0.79 |
| FE-Penelec | Receiver Capacity Addition | Mfg: Comp & Elec | Process Air Compressor | Existing | end use | 1,395 | 5.9% | 0.01 | 10 | \$26 | 36% | 1.09 |
| FE-Penelec | Receiver Capacity Addition | Mfg: Comp & Elec | Process Air Compressor | New | end use | 1,395 | 5.9% | 0.01 | 10 | \$26 | 36% | 1.09 |
| FE-Penelec | Refrigerated Cycling Dryers | Mfg: Comp & Elec | Process Air Compressor | Early | end use | 1,395 | 1.7% | 0.00 | 10 | \$3.2 | 21% | 2.01 |
| FE-Penelec | Refrigerated Cycling Dryers | Mfg: Comp & Elec | Process Air Compressor | New | end use | 1,395 | 1.7% | 0.00 | 10 | \$3.2 | 21% | 2.00 |
| FE-Penelec | Refrigerated Cycling Dryers | Mfg: Comp & Elec | Process Air Compressor | ROB | end use | 1,395 | 1.7% | 0.00 | 10 | \$3.2 | 21% | 2.01 |
| FE-Penelec | VFD Controlled Compressor | Mfg: Comp & Elec | Process Air Compressor | Early | end use | 1,395 | 24% | 0.04 | 10 | \$137 | 28% | 0.86 |
| FE-Penelec | VFD Controlled Compressor | Mfg: Comp & Elec | Process Air Compressor | New | end use | 1,395 | 24% | 0.04 | 10 | \$137 | 28% | 0.86 |
| FE-Penelec | VFD Controlled Compressor | Mfg: Comp & Elec | Process Air Compressor | ROB | end use | 1,395 | 24% | 0.04 | 10 | \$137 | 28% | 0.86 |
| FE-Penelec | Zero Loss Condensate Drain | Mfg: Comp & Elec | Process Air Compressor | Early | end use | 1,395 | 1.9% | 0.00 | 10 | \$8.0 | 36% | 1.10 |
| FE-Penelec | Zero Loss Condensate Drain | Mfg: Comp & Elec | Process Air Compressor | New | end use | 1,395 | 1.8% | 0.00 | 10 | \$8.0 | 36% | 1.09 |
| FE-Penelec | Zero Loss Condensate Drain | Mfg: Comp & Elec | Process Air Compressor | ROB | end use | 1,395 | 1.9% | 0.00 | 10 | \$8.0 | 36% | 1.10 |
| FE-Penelec | Clean Room: Change Filter Strategy | Mfg: Comp & Elec | Process Cooling | Existing | end use | 14,485 | 40% | 1.21 | 1 | \$38 | 13% | 0.79 |
| FE-Penelec | Clean Room: Change Filter Strategy | Mfg: Comp & Elec | Process Cooling | New | end use | 14,485 | 40% | 1.21 | 1 | \$38 | 13% | 0.79 |
| FE-Penelec | Clean Room: Chiller Optimize | Mfg: Comp & Elec | Process Cooling | Existing | end use | 14,485 | 15% | 0.45 | 10 | \$175 | 21% | 2.94 |
| FE-Penelec | Clean Room: Chiller Optimize | Mfg: Comp & Elec | Process Cooling | New | end use | 14,485 | 15% | 0.45 | 10 | \$175 | 21% | 2.94 |
| FE-Penelec | Clean Room: Clean Room HVAC | Mfg: Comp & Elec | Process Cooling | Existing | end use | 14,485 | 9.0% | 0.27 | 15 | \$211 | 31% | 2.71 |
| FE-Penelec | Clean Room: Clean Room HVAC | Mfg: Comp & Elec | Process Cooling | New | end use | 14,485 | 9.0% | 0.27 | 15 | \$211 | 31% | 2.71 |
| FE-Penelec | Cooling Tower Optimization | Mfg: Comp & Elec | Process Cooling | Existing | building | 18,971 | 20% | 1.36 | 10 | \$116 | 15% | 5.13 |
| FE-Penelec | Elec Chip Fab: Solidstate Chiller | Mfg: Comp & Elec | Process Cooling | Early | end use | 14,485 | 90% | 2.72 | 10 | \$6,629 | 42% | 0.77 |
| FE-Penelec | Elec Chip Fab: Solidstate Chiller | Mfg: Comp & Elec | Process Cooling | New | end use | 14,485 | 90% | 2.72 | 10 | \$6,629 | 42% | 0.77 |
| FE-Penelec | Elec Chip Fab: Solidstate Chiller | Mfg: Comp & Elec | Process Cooling | ROB | end use | 14,485 | 90% | 2.72 | 10 | \$6,629 | 42% | 0.77 |
| FE-Penelec | Equipment: Chillers | Mfg: Comp & Elec | Process Cooling | Early | end use | 14,485 | 18% | 0.54 | 15 | \$680 | 39% | 1.89 |
| FE-Penelec | Equipment: Chillers | Mfg: Comp & Elec | Process Cooling | New | end use | 14,485 | 18% | 0.54 | 15 | \$680 | 39% | 1.89 |
| FE-Penelec | Equipment: Chillers | Mfg: Comp & Elec | Process Cooling | ROB | end use | 14,485 | 18% | 0.54 | 15 | \$680 | 39% | 1.89 |
| FE-Penelec | Facility Energy Management | Mfg: Comp & Elec | Process Cooling | Existing | end use | 14,485 | 1.9% | 0.06 | 2 | \$5.6 | 50% | 1.20 |
| FE-Penelec | Facility Energy Management | Mfg: Comp & Elec | Process Cooling | New | end use | 14,485 | 1.9% | 0.06 | 2 | \$5.6 | 50% | 1.20 |
| FE-Penelec | Improved Controls - Process Cooling | Mfg: Comp & Elec | Process Cooling | Existing | end use | 14,485 | 6.0% | 0.18 | 10 | \$765 | 47% | 0.47 |
| FE-Penelec | Improved Controls - Process Cooling | Mfg: Comp & Elec | Process Cooling | New | end use | 14,485 | 6.0% | 0.18 | 10 | \$765 | 47% | 0.47 |
| FE-Penelec | VFD on Cooling Tower Fan | Mfg: Comp & Elec | Process Cooling | Early | motor | 18,971 | 21% | 1.20 | 15 | \$876 | 20% | 2.39 |
| FE-Penelec | VFD on Cooling Tower Fan | Mfg: Comp & Elec | Process Cooling | New | motor | 18,971 | 22% | 1.20 | 15 | \$893 | 20% | 2.37 |
| FE-Penelec | VFD on Cooling Tower Fan | Mfg: Comp & Elec | Process Cooling | ROB | motor | 18,971 | 22% | 1.20 | 15 | \$893 | 20% | 2.37 |
| FE-Penelec | Improved Controls - Process Heating | Mfg: Comp & Elec | Process Heating | Existing | end use | 36,785 | 17% | 0.86 | 10 | \$423 | 77% | 3.00 |
| FE-Penelec | Improved Controls - Process Heating | Mfg: Comp & Elec | Process Heating | New | end use | 36,785 | 17% | 0.86 | 10 | \$423 | 77% | 3.00 |
| FE-Penelec | Process Heat O&M | Mfg: Comp & Elec | Process Heating | Existing | end use | 36,785 | 16% | 0.82 | 2 | \$255 | 77% | 0.90 |
| FE-Penelec | Process Heat O&M | Mfg: Comp & Elec | Process Heating | New | end use | 36,785 | 16% | 0.82 | 2 | \$255 | 77% | 0.90 |
| FE-Penelec | Elec Chip Fab: Eliminate Exhaust | Mfg: Comp & Elec | Process Other | Existing | end use | 13,599 | 5.0% | 0.10 | 10 | \$127 | 68% | 1.61 |
| FE-Penelec | Elec Chip Fab: Eliminate Exhaust | Mfg: Comp & Elec | Process Other | New | end use | 13,599 | 5.0% | 0.10 | 10 | \$127 | 68% | 1.61 |
| FE-Penelec | Elec Chip Fab: Exhaust Injector | Mfg: Comp & Elec | Process Other | Existing | end use | 13,599 | 100% | 1.91 | 10 | \$6,124 | 68% | 0.79 |
| FE-Penelec | Elec Chip Fab: Exhaust Injector | Mfg: Comp & Elec | Process Other | New | end use | 13,599 | 100% | 1.91 | 10 | \$6,124 | 68% | 0.79 |
| FE-Penelec | Elec Chip Fab: Reduce Gas Pressure | Mfg: Comp & Elec | Process Other | Existing | end use | 13,599 | 10.0% | 0.19 | 10 | \$0.0 | 68% | 5.87 |
| FE-Penelec | Elec Chip Fab: Reduce Gas Pressure | Mfg: Comp & Elec | Process Other | New | end use | 13,599 | 10% | 0.19 | 10 | \$0.0 | 68% | 5.87 |
| FE-Penelec | Facility Energy Management | Mfg: Comp & Elec | Process Other | Existing | end use | 13,599 | 1.9% | 0.04 | 2 | \$5.2 | 77% | 1.12 |
| FE-Penelec | Facility Energy Management | Mfg: Comp & Elec | Process Other | New | end use | 13,599 | 1.9% | 0.04 | 2 | \$5.2 | 77% | 1.12 |
| FE-Penelec | Adjustable speed drive on compressors | Mfg: Comp & Elec | Process Refrigeration | Early | end use | 7,441 | 12% | 0.13 | 10 | \$138 | 30% | 1.86 |
| FE-Penelec | Adjustable speed drive on compressors | Mfg: Comp & Elec | Process Refrigeration | New | end use | 7,441 | 12% | 0.13 | 10 | \$138 | 30% | 1.86 |
| FE-Penelec | Adjustable speed drive on compressors | Mfg: Comp & Elec | Process Refrigeration | ROB | end use | 7,441 | 12% | 0.13 | 10 | \$138 | 30% | 1.86 |
| FE-Penelec | Cooling Tower Optimization | Mfg: Comp & Elec | Process Refrigeration | Existing | building | 9,745 | 20% | 0.70 | 10 | \$60 | 15% | 5.13 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|--|------------------|-----------------------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Optimization of operating parameters | Mfg: Comp & Elec | Process Refrigeration | Existing | end use | 7,441 | 13% | 0.14 | 3 | \$60 | 27% | 1.14 |
| FE-Penelec | Optimization of operating parameters | Mfg: Comp & Elec | Process Refrigeration | New | end use | 7,441 | 13% | 0.14 | 3 | \$60 | 27% | 1.14 |
| FE-Penelec | VFD on Cooling Tower Fan | Mfg: Comp & Elec | Process Refrigeration | Early | motor | 9,745 | 21% | 0.61 | 15 | \$450 | 20% | 2.39 |
| FE-Penelec | VFD on Cooling Tower Fan | Mfg: Comp & Elec | Process Refrigeration | New | motor | 9,745 | 22% | 0.61 | 15 | \$459 | 20% | 2.37 |
| FE-Penelec | VFD on Cooling Tower Fan | Mfg: Comp & Elec | Process Refrigeration | ROB | motor | 9,745 | 22% | 0.61 | 15 | \$459 | 20% | 2.37 |
| FE-Penelec | Facility Energy Management | Mfg: Comp & Elec | Pumps | Existing | end use | 39,832 | 1.9% | 0.10 | 2 | \$15 | 73% | 1.17 |
| FE-Penelec | Facility Energy Management | Mfg: Comp & Elec | Pumps | New | end use | 39,832 | 1.9% | 0.10 | 2 | \$15 | 73% | 1.17 |
| FE-Penelec | HE Motors | Mfg: Comp & Elec | Pumps | Early | end use | 39,832 | 2.0% | 0.11 | 15 | \$237 | 77% | 1.64 |
| FE-Penelec | HE Motors | Mfg: Comp & Elec | Pumps | New | end use | 39,832 | 2.0% | 0.11 | 15 | \$237 | 77% | 1.64 |
| FE-Penelec | HE Motors | Mfg: Comp & Elec | Pumps | ROB | end use | 39,832 | 2.0% | 0.11 | 15 | \$237 | 77% | 1.64 |
| FE-Penelec | Motor rewinds | Mfg: Comp & Elec | Pumps | Existing | end use | 39,832 | 0.6% | 0.03 | 9 | \$57 | 12% | 1.30 |
| FE-Penelec | Motor rewinds | Mfg: Comp & Elec | Pumps | New | end use | 39,832 | 0.6% | 0.03 | 9 | \$57 | 12% | 1.30 |
| FE-Penelec | Circulating Fans | Mfg: Food | Fans | Early | end use | 204,721 | 5.0% | 1.22 | 10 | \$1,246 | 68% | 2.23 |
| FE-Penelec | Circulating Fans | Mfg: Food | Fans | New | end use | 204,721 | 5.0% | 1.22 | 10 | \$1,246 | 68% | 2.23 |
| FE-Penelec | Circulating Fans | Mfg: Food | Fans | ROB | end use | 204,721 | 5.0% | 1.22 | 10 | \$1,246 | 68% | 2.23 |
| FE-Penelec | Facility Energy Management | Mfg: Food | Fans | Existing | end use | 204,721 | 1.9% | 0.45 | 2 | \$79 | 77% | 1.16 |
| FE-Penelec | Facility Energy Management | Mfg: Food | Fans | New | end use | 204,721 | 1.9% | 0.45 | 2 | \$79 | 77% | 1.16 |
| FE-Penelec | Fan System Optimization | Mfg: Food | Fans | Existing | end use | 204,721 | 7.3% | 1.79 | 10 | \$2,792 | 83% | 1.67 |
| FE-Penelec | Fan System Optimization | Mfg: Food | Fans | New | end use | 204,721 | 7.3% | 1.79 | 10 | \$2,792 | 83% | 1.67 |
| FE-Penelec | HE Motors | Mfg: Food | Fans | Early | end use | 204,721 | 2.0% | 0.50 | 15 | \$1,219 | 77% | 1.68 |
| FE-Penelec | HE Motors | Mfg: Food | Fans | New | end use | 204,721 | 2.0% | 0.50 | 15 | \$1,219 | 77% | 1.68 |
| FE-Penelec | HE Motors | Mfg: Food | Fans | ROB | end use | 204,721 | 2.0% | 0.50 | 15 | \$1,219 | 77% | 1.68 |
| FE-Penelec | Improved Controls - Fans | Mfg: Food | Fans | Existing | end use | 204,721 | 7.1% | 1.73 | 10 | \$794 | 60% | 3.42 |
| FE-Penelec | Improved Controls - Fans | Mfg: Food | Fans | New | end use | 204,721 | 7.1% | 1.73 | 10 | \$794 | 60% | 3.42 |
| FE-Penelec | Properly Sized Fans | Mfg: Food | Fans | Early | end use | 204,721 | 13% | 3.21 | 10 | \$4,193 | 41% | 1.89 |
| FE-Penelec | Properly Sized Fans | Mfg: Food | Fans | New | end use | 204,721 | 13% | 3.21 | 10 | \$4,193 | 41% | 1.89 |
| FE-Penelec | Properly Sized Fans | Mfg: Food | Fans | ROB | end use | 204,721 | 13% | 3.21 | 10 | \$4,193 | 41% | 1.89 |
| FE-Penelec | Synchronous Belts | Mfg: Food | Fans | Early | end use | 204,721 | 1.2% | 0.28 | 10 | \$302 | 41% | 2.17 |
| FE-Penelec | Synchronous Belts | Mfg: Food | Fans | New | end use | 204,721 | 1.2% | 0.28 | 10 | \$302 | 41% | 2.17 |
| FE-Penelec | Synchronous Belts | Mfg: Food | Fans | ROB | end use | 204,721 | 1.2% | 0.28 | 10 | \$302 | 41% | 2.17 |
| FE-Penelec | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Food | HVAC | Early | unit (ton) | 127,071 | 9.2% | 3.02 | 15 | \$23,158 | 28% | 0.34 |
| FE-Penelec | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Food | HVAC | New | unit (ton) | 127,071 | 4.1% | 1.36 | 15 | \$5,611 | 28% | 0.62 |
| FE-Penelec | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Food | HVAC | ROB | unit (ton) | 127,071 | 4.1% | 1.36 | 15 | \$5,611 | 28% | 0.62 |
| FE-Penelec | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Food | HVAC | Early | unit (ton) | 127,071 | 12% | 4.09 | 15 | \$27,301 | 28% | 0.39 |
| FE-Penelec | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Food | HVAC | New | unit (ton) | 127,071 | 7.7% | 2.54 | 15 | \$11,817 | 28% | 0.55 |
| FE-Penelec | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Food | HVAC | ROB | unit (ton) | 127,071 | 7.7% | 2.54 | 15 | \$11,817 | 28% | 0.55 |
| FE-Penelec | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Food | HVAC | Early | unit (ton) | 127,071 | 15% | 5.02 | 15 | \$31,444 | 29% | 0.42 |
| FE-Penelec | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Food | HVAC | New | unit (ton) | 127,071 | 11% | 3.57 | 15 | \$18,024 | 29% | 0.51 |
| FE-Penelec | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Food | HVAC | ROB | unit (ton) | 127,071 | 11% | 3.57 | 15 | \$18,024 | 29% | 0.51 |
| FE-Penelec | >760k min 10.2 EER Air Conditioner | Mfg: Food | HVAC | Early | unit (ton) | 127,071 | 2.1% | 0.70 | 15 | \$40,328 | 35% | 0.05 |
| FE-Penelec | >760k min 10.2 EER Air Conditioner | Mfg: Food | HVAC | New | unit (ton) | 127,071 | 2.8% | 0.93 | 15 | \$3,645 | 35% | 0.65 |
| FE-Penelec | >760k min 10.2 EER Air Conditioner | Mfg: Food | HVAC | ROB | unit (ton) | 127,071 | 2.8% | 0.93 | 15 | \$3,645 | 35% | 0.65 |
| FE-Penelec | 135-240k min 12 EER Air Conditioner | Mfg: Food | HVAC | Early | unit (ton) | 127,071 | 10% | 3.45 | 15 | \$43,669 | 35% | 0.21 |
| FE-Penelec | 135-240k min 12 EER Air Conditioner | Mfg: Food | HVAC | New | unit (ton) | 127,071 | 5.8% | 1.90 | 15 | \$5,156 | 35% | 0.91 |
| FE-Penelec | 135-240k min 12 EER Air Conditioner | Mfg: Food | HVAC | ROB | unit (ton) | 127,071 | 5.8% | 1.90 | 15 | \$5,156 | 35% | 0.91 |
| FE-Penelec | 240k-760k min 11 EER Air Conditioner | Mfg: Food | HVAC | Early | unit (ton) | 127,071 | 5.2% | 1.72 | 15 | \$40,353 | 35% | 0.11 |
| FE-Penelec | 240k-760k min 11 EER Air Conditioner | Mfg: Food | HVAC | New | unit (ton) | 127,071 | 5.3% | 1.76 | 15 | \$4,323 | 35% | 0.99 |
| FE-Penelec | 240k-760k min 11 EER Air Conditioner | Mfg: Food | HVAC | ROB | unit (ton) | 127,071 | 5.3% | 1.76 | 15 | \$4,323 | 35% | 0.99 |
| FE-Penelec | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Food | HVAC | Early | unit (ton) | 127,071 | 9.7% | 3.20 | 15 | \$44,713 | 35% | 0.19 |
| FE-Penelec | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Food | HVAC | New | unit (ton) | 127,071 | 3.8% | 1.27 | 15 | \$6,379 | 35% | 0.51 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|-----------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Food | HVAC | ROB | unit (ton) | 127,071 | 3.8% | 1.27 | 15 | \$6,379 | 35% | 0.51 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Mfg: Food | HVAC | Existing | building | 100,569 | 5.9% | 1.49 | 15 | \$304,707 | 71% | 0.01 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Mfg: Food | HVAC | New | building | 100,569 | 3.7% | 0.94 | 15 | \$289,632 | 94% | 0.01 |
| FE-Penelec | Chiller Tuneup/Diagnostics | Mfg: Food | HVAC | Existing | building | 100,569 | 8.0% | 2.95 | 10 | \$256,796 | 59% | 0.02 |
| FE-Penelec | Chiller Tuneup/Diagnostics | Mfg: Food | HVAC | New | building | 100,569 | 8.0% | 2.96 | 10 | \$256,796 | 59% | 0.02 |
| FE-Penelec | Cooling Tower Optimization | Mfg: Food | HVAC | Existing | building | 100,569 | 20% | 7.20 | 10 | \$617 | 69% | 5.43 |
| FE-Penelec | Duct Insulation, Add R8 | Mfg: Food | HVAC | Existing | building | 100,569 | 1.5% | 0.32 | 15 | \$799 | 18% | 1.15 |
| FE-Penelec | Duct Insulation, Add R8 | Mfg: Food | HVAC | New | building | 100,569 | 1.5% | 0.32 | 15 | \$799 | 9% | 1.15 |
| FE-Penelec | Ductless Heat Pump | Mfg: Food | HVAC | Early | heat pump | 127,071 | 0.8% | 0.24 | 15 | \$10,046 | 83% | 0.07 |
| FE-Penelec | Ductless Heat Pump | Mfg: Food | HVAC | New | heat pump | 127,071 | 0.4% | 0.12 | 15 | \$2,917 | 83% | 0.13 |
| FE-Penelec | Ductless Heat Pump | Mfg: Food | HVAC | ROB | heat pump | 127,071 | 0.4% | 0.12 | 15 | \$2,917 | 83% | 0.13 |
| FE-Penelec | DX Coil Cleaning | Mfg: Food | HVAC | Existing | building | 100,569 | 13% | 4.61 | 1 | \$964 | 73% | 0.51 |
| FE-Penelec | DX Coil Cleaning | Mfg: Food | HVAC | New | building | 100,569 | 13% | 4.61 | 1 | \$964 | 73% | 0.51 |
| FE-Penelec | Efficient Unit Heating System | Mfg: Food | HVAC | Early | heater | 127,071 | 6.9% | 0.07 | 15 | \$6,860 | 83% | 0.64 |
| FE-Penelec | Efficient Unit Heating System | Mfg: Food | HVAC | New | heater | 127,071 | 4.0% | 0.04 | 15 | \$4,679 | 83% | 0.54 |
| FE-Penelec | Efficient Unit Heating System | Mfg: Food | HVAC | ROB | heater | 127,071 | 4.0% | 0.04 | 15 | \$4,679 | 83% | 0.54 |
| FE-Penelec | Ground Source Heat Pump (Closed Loop) | Mfg: Food | HVAC | Early | heat pump | 127,071 | 1.3% | 0.37 | 15 | \$20,860 | 19% | 0.05 |
| FE-Penelec | Ground Source Heat Pump (Closed Loop) | Mfg: Food | HVAC | New | heat pump | 127,071 | 1.0% | 0.29 | 15 | \$8,236 | 19% | 0.11 |
| FE-Penelec | Ground Source Heat Pump (Closed Loop) | Mfg: Food | HVAC | ROB | heat pump | 127,071 | 1.0% | 0.29 | 15 | \$8,236 | 19% | 0.11 |
| FE-Penelec | Ground Source Heat Pump (Open Loop) | Mfg: Food | HVAC | Early | heat pump | 127,071 | 1.3% | 0.37 | 15 | \$13,360 | 19% | 0.08 |
| FE-Penelec | Ground Source Heat Pump (Open Loop) | Mfg: Food | HVAC | New | heat pump | 127,071 | 1.0% | 0.29 | 15 | \$283 | 19% | 2.35 |
| FE-Penelec | Ground Source Heat Pump (Open Loop) | Mfg: Food | HVAC | ROB | heat pump | 127,071 | 1.0% | 0.29 | 15 | \$283 | 19% | 2.35 |
| FE-Penelec | HE Air Cooled Chiller, 100 Tons | Mfg: Food | HVAC | Early | unit (ton) | 127,071 | 1.5% | 0.42 | 15 | \$147,817 | 89% | 0.01 |
| FE-Penelec | HE Air Cooled Chiller, 100 Tons | Mfg: Food | HVAC | New | unit (ton) | 127,071 | 0.4% | 0.12 | 15 | \$21,534 | 89% | 0.02 |
| FE-Penelec | HE Air Cooled Chiller, 100 Tons | Mfg: Food | HVAC | ROB | unit (ton) | 127,071 | 0.4% | 0.12 | 15 | \$21,534 | 89% | 0.02 |
| FE-Penelec | HE Air Cooled Chiller, 150 Tons | Mfg: Food | HVAC | Early | unit (ton) | 127,071 | 1.4% | 0.41 | 15 | \$127,681 | 89% | 0.01 |
| FE-Penelec | HE Air Cooled Chiller, 150 Tons | Mfg: Food | HVAC | New | unit (ton) | 127,071 | 0.3% | 0.09 | 15 | \$10,575 | 89% | 0.02 |
| FE-Penelec | HE Air Cooled Chiller, 150 Tons | Mfg: Food | HVAC | ROB | unit (ton) | 127,071 | 0.3% | 0.09 | 15 | \$10,575 | 89% | 0.02 |
| FE-Penelec | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Food | HVAC | Early | heat pump | 127,071 | 1.4% | 0.39 | 12 | \$5,445 | 81% | 0.17 |
| FE-Penelec | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Food | HVAC | Early | heat pump | 127,071 | 1.1% | 0.32 | 12 | \$3,978 | 81% | 0.19 |
| FE-Penelec | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Food | HVAC | New | heat pump | 127,071 | 1.0% | 0.29 | 12 | \$2,431 | 81% | 0.28 |
| FE-Penelec | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Food | HVAC | New | heat pump | 127,071 | 0.8% | 0.22 | 12 | \$850 | 81% | 0.58 |
| FE-Penelec | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Food | HVAC | ROB | heat pump | 127,071 | 1.0% | 0.29 | 12 | \$2,431 | 81% | 0.28 |
| FE-Penelec | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Food | HVAC | ROB | heat pump | 127,071 | 0.8% | 0.22 | 12 | \$850 | 81% | 0.58 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Food | HVAC | Early | unit (ton) | 127,071 | 1.6% | 0.45 | 15 | \$11,728 | 89% | 0.12 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Food | HVAC | New | unit (ton) | 127,071 | 0.9% | 0.26 | 15 | \$3,901 | 89% | 0.20 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Food | HVAC | ROB | unit (ton) | 127,071 | 0.9% | 0.26 | 15 | \$3,901 | 89% | 0.20 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Food | HVAC | Early | unit (ton) | 127,071 | 1.4% | 0.40 | 15 | \$11,455 | 89% | 0.11 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Food | HVAC | New | unit (ton) | 127,071 | 1.0% | 0.28 | 15 | \$2,237 | 89% | 0.37 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Food | HVAC | ROB | unit (ton) | 127,071 | 1.4% | 0.40 | 15 | \$2,055 | 89% | 0.56 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Food | HVAC | Early | unit (ton) | 127,071 | 1.4% | 0.40 | 15 | \$13,557 | 89% | 0.09 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Food | HVAC | New | unit (ton) | 127,071 | 0.9% | 0.25 | 15 | \$5,708 | 89% | 0.13 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Food | HVAC | ROB | unit (ton) | 127,071 | 1.4% | 0.40 | 15 | \$5,166 | 89% | 0.23 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Food | HVAC | Early | unit (ton) | 127,071 | 1.4% | 0.40 | 15 | \$13,059 | 89% | 0.09 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Food | HVAC | New | unit (ton) | 127,071 | 0.9% | 0.25 | 15 | \$4,962 | 89% | 0.15 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Food | HVAC | ROB | unit (ton) | 127,071 | 1.4% | 0.40 | 15 | \$4,491 | 89% | 0.26 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Food | HVAC | Early | unit (ton) | 127,071 | 1.8% | 0.51 | 15 | \$14,072 | 89% | 0.11 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Food | HVAC | New | unit (ton) | 127,071 | 0.5% | 0.16 | 15 | \$8,713 | 89% | 0.05 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Food | HVAC | ROB | unit (ton) | 127,071 | 1.8% | 0.51 | 15 | \$6,766 | 89% | 0.23 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Food | HVAC | Early | unit (ton) | 127,071 | 2.1% | 0.61 | 15 | \$12,943 | 89% | 0.14 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|-----------|----------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Food | HVAC | New | unit (ton) | 127,071 | 0.8% | 0.22 | 15 | \$5,194 | 89% | 0.13 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Food | HVAC | ROB | unit (ton) | 127,071 | 0.8% | 0.22 | 15 | \$5,194 | 89% | 0.13 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Food | HVAC | Early | unit (ton) | 127,071 | 2.4% | 0.69 | 15 | \$10,969 | 89% | 0.19 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Food | HVAC | New | unit (ton) | 127,071 | 0.9% | 0.26 | 15 | \$2,760 | 89% | 0.27 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Food | HVAC | ROB | unit (ton) | 127,071 | 2.4% | 0.69 | 15 | \$1,968 | 89% | 0.95 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Food | HVAC | Early | unit (ton) | 127,071 | 1.8% | 0.52 | 15 | \$10,859 | 89% | 0.14 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Food | HVAC | New | unit (ton) | 127,071 | 0.7% | 0.20 | 15 | \$3,041 | 89% | 0.19 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Food | HVAC | ROB | unit (ton) | 127,071 | 1.8% | 0.52 | 15 | \$2,409 | 89% | 0.61 |
| FE-Penelec | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Food | HVAC | Existing | building | 100,569 | 2.9% | 0.59 | 5 | \$1,067 | 55% | 0.61 |
| FE-Penelec | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Food | HVAC | New | building | 100,569 | 0.6% | 0.23 | 5 | \$640 | 51% | 0.29 |
| FE-Penelec | Improved Controls - HVAC | Mfg: Food | HVAC | Existing | end use | 100,569 | 21% | 3.02 | 10 | \$1,057 | 76% | 3.68 |
| FE-Penelec | Improved Controls - HVAC | Mfg: Food | HVAC | New | end use | 100,569 | 21% | 3.02 | 10 | \$1,057 | 76% | 3.68 |
| FE-Penelec | Outside Air Economizer | Mfg: Food | HVAC | Existing | building | 100,569 | 1.1% | 0.28 | 10 | \$369,508 | 82% | 0.00 |
| FE-Penelec | Outside Air Economizer | Mfg: Food | HVAC | New | building | 100,569 | 1.1% | 0.28 | 10 | \$369,508 | 82% | 0.00 |
| FE-Penelec | Recommissioning | Mfg: Food | HVAC | Existing | end use | 100,569 | 5.0% | 0.72 | 10 | \$138 | 88% | 4.54 |
| FE-Penelec | Recommissioning | Mfg: Food | HVAC | New | end use | 100,569 | 5.0% | 0.72 | 10 | \$138 | 88% | 4.54 |
| FE-Penelec | Room AC (with louvered sides) | Mfg: Food | HVAC | Early | unit (ton) | 127,071 | 7.7% | 2.21 | 9 | \$9,964 | 78% | 0.41 |
| FE-Penelec | Room AC (with louvered sides) | Mfg: Food | HVAC | New | unit (ton) | 127,071 | 2.6% | 0.74 | 9 | \$546 | 78% | 1.88 |
| FE-Penelec | Room AC (with louvered sides) | Mfg: Food | HVAC | ROB | unit (ton) | 127,071 | 2.6% | 0.74 | 9 | \$546 | 78% | 1.88 |
| FE-Penelec | Variable Refrigerant Flow Heat Pump | Mfg: Food | HVAC | New | measure | 127,071 | 0.1% | 0.03 | 13 | \$935 | 43% | 0.09 |
| FE-Penelec | Variable Refrigerant Flow Heat Pump | Mfg: Food | HVAC | ROB | measure | 127,071 | 0.1% | 0.03 | 13 | \$935 | 43% | 0.09 |
| FE-Penelec | VFD on Cooling Tower Fan | Mfg: Food | HVAC | Early | motor | 127,071 | 21% | 8.01 | 15 | \$5,868 | 15% | 2.54 |
| FE-Penelec | VFD on Cooling Tower Fan | Mfg: Food | HVAC | New | motor | 127,071 | 22% | 8.01 | 15 | \$5,979 | 15% | 2.52 |
| FE-Penelec | VFD on Cooling Tower Fan | Mfg: Food | HVAC | ROB | motor | 127,071 | 22% | 8.01 | 15 | \$5,979 | 15% | 2.52 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Mfg: Food | HVAC | Existing | building | 100,569 | 19% | 4.81 | 15 | \$71,541 | 26% | 0.18 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Mfg: Food | HVAC | New | building | 100,569 | 0.6% | 0.15 | 15 | \$54,875 | 94% | 0.01 |
| FE-Penelec | Water Source Heat Pump (4 ton) | Mfg: Food | HVAC | Early | heat pump | 127,071 | 1.5% | 0.44 | 15 | \$21,602 | 28% | 0.06 |
| FE-Penelec | Water Source Heat Pump (4 ton) | Mfg: Food | HVAC | New | heat pump | 127,071 | 1.1% | 0.32 | 15 | \$10,528 | 28% | 0.09 |
| FE-Penelec | Water Source Heat Pump (4 ton) | Mfg: Food | HVAC | ROB | heat pump | 127,071 | 1.1% | 0.32 | 15 | \$10,528 | 28% | 0.09 |
| FE-Penelec | Efficient Metal Halide (High Bay) | Mfg: Food | Lighting | Early | end use | 131,205 | 42% | 0.00 | 9 | \$20,502 | 53% | 0.76 |
| FE-Penelec | Efficient Metal Halide (High Bay) | Mfg: Food | Lighting | New | end use | 131,205 | 41% | 0.00 | 13 | \$547,622 | 61% | 0.05 |
| FE-Penelec | Efficient Metal Halide (High Bay) | Mfg: Food | Lighting | ROB | end use | 131,205 | 41% | 0.00 | 13 | \$418,524 | 61% | 0.06 |
| FE-Penelec | Induction (High Bay) | Mfg: Food | Lighting | Early | end use | 131,205 | 94% | 0.00 | 13 | \$61,003 | 95% | 0.82 |
| FE-Penelec | Induction (High Bay) | Mfg: Food | Lighting | New | end use | 131,205 | 94% | 0.00 | 13 | \$57,114 | 95% | 0.87 |
| FE-Penelec | Induction (High Bay) | Mfg: Food | Lighting | ROB | end use | 131,205 | 94% | 0.00 | 13 | \$43,409 | 95% | 1.10 |
| FE-Penelec | LED (High Bay) | Mfg: Food | Lighting | Early | end use | 131,205 | 69% | 0.00 | 14 | \$71,809 | 95% | 0.57 |
| FE-Penelec | LED (High Bay) | Mfg: Food | Lighting | New | end use | 131,205 | 55% | 0.00 | 14 | \$79,707 | 95% | 0.42 |
| FE-Penelec | LED (High Bay) | Mfg: Food | Lighting | ROB | end use | 131,205 | 59% | 0.00 | 14 | \$52,517 | 95% | 0.66 |
| FE-Penelec | Lighting Controls | Mfg: Food | Lighting | Existing | end use | 131,205 | 20% | 0.00 | 6 | \$491,870 | 16% | 0.01 |
| FE-Penelec | Lighting Controls | Mfg: Food | Lighting | New | end use | 131,205 | 12% | 0.00 | 10 | \$654,348 | 11% | 0.01 |
| FE-Penelec | Linear Fluorescent (High Bay) | Mfg: Food | Lighting | Early | end use | 131,205 | 17% | 0.00 | 14 | \$15,013 | 98% | 0.66 |
| FE-Penelec | Linear Fluorescent (High Bay) | Mfg: Food | Lighting | New | end use | 131,205 | 13% | 0.00 | 14 | \$4,761 | 91% | 1.39 |
| FE-Penelec | Linear Fluorescent (High Bay) | Mfg: Food | Lighting | ROB | end use | 131,205 | 13% | 0.00 | 14 | \$3,048 | 91% | 2.01 |
| FE-Penelec | Metal Halide (High Bay) | Mfg: Food | Lighting | Early | end use | 131,205 | 62% | 0.00 | 13 | \$90,195 | 38% | 0.39 |
| FE-Penelec | Metal Halide (High Bay) | Mfg: Food | Lighting | New | end use | 131,205 | 73% | 0.00 | 13 | \$21,564 | 38% | 1.56 |
| FE-Penelec | Metal Halide (High Bay) | Mfg: Food | Lighting | ROB | end use | 131,205 | 73% | 0.00 | 13 | \$16,389 | 38% | 1.91 |
| FE-Penelec | Screw Base CFL | Mfg: Food | Lighting | Early | end use | 131,205 | 80% | 0.00 | 7 | \$35,645 | 17% | 0.66 |
| FE-Penelec | Screw Base CFL | Mfg: Food | Lighting | New | end use | 131,205 | 73% | 0.00 | 9 | \$29,131 | 18% | 0.90 |
| FE-Penelec | Screw Base CFL | Mfg: Food | Lighting | ROB | end use | 131,205 | 73% | 0.00 | 9 | \$24,383 | 17% | 1.03 |
| FE-Penelec | Screw Base LED | Mfg: Food | Lighting | Early | end use | 131,205 | 76% | 0.00 | 9 | \$21,876 | 21% | 1.21 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|--|-----------|----------|----------|---------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Screw Base LED | Mfg: Food | Lighting | New | end use | 131,205 | 77% | 0.00 | 9 | \$12,186 | 20% | 1.84 |
| FE-Penelec | Screw Base LED | Mfg: Food | Lighting | ROB | end use | 131,205 | 77% | 0.00 | 9 | \$9,674 | 21% | 2.11 |
| FE-Penelec | T8 High Performance Linear Florescent | Mfg: Food | Lighting | Early | end use | 131,205 | 36% | 0.00 | 14 | \$12,555 | 71% | 1.48 |
| FE-Penelec | T8 High Performance Linear Florescent | Mfg: Food | Lighting | New | end use | 131,205 | 26% | 0.00 | 14 | \$4,492 | 76% | 2.49 |
| FE-Penelec | T8 High Performance Linear Florescent | Mfg: Food | Lighting | ROB | end use | 131,205 | 26% | 0.00 | 14 | \$3,414 | 76% | 2.94 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Food | Motors | Early | end use | 64,633 | 0.9% | 0.08 | 15 | \$987 | 81% | 0.34 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Food | Motors | New | end use | 64,633 | 0.9% | 0.08 | 15 | \$987 | 81% | 0.34 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Food | Motors | ROB | end use | 64,633 | 0.9% | 0.08 | 15 | \$987 | 81% | 0.35 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Food | Motors | Early | end use | 64,633 | 0.7% | 0.07 | 15 | \$600 | 73% | 0.46 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Food | Motors | New | end use | 64,633 | 0.8% | 0.07 | 15 | \$600 | 73% | 0.47 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Food | Motors | ROB | end use | 64,633 | 0.8% | 0.07 | 15 | \$600 | 73% | 0.46 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Food | Motors | Early | end use | 64,633 | 0.5% | 0.04 | 15 | \$230 | 81% | 0.72 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Food | Motors | New | end use | 64,633 | 0.5% | 0.04 | 15 | \$230 | 81% | 0.70 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Food | Motors | ROB | end use | 64,633 | 0.5% | 0.04 | 15 | \$230 | 81% | 0.72 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Food | Motors | Early | end use | 64,633 | 0.4% | 0.04 | 15 | \$76 | 73% | 1.64 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Food | Motors | New | end use | 64,633 | 0.4% | 0.04 | 15 | \$76 | 73% | 1.67 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Food | Motors | ROB | end use | 64,633 | 0.4% | 0.04 | 15 | \$76 | 73% | 1.66 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Food | Motors | Early | end use | 64,633 | 0.9% | 0.08 | 15 | \$114 | 47% | 2.31 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Food | Motors | New | end use | 64,633 | 0.9% | 0.08 | 15 | \$114 | 47% | 2.29 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Food | Motors | ROB | end use | 64,633 | 0.9% | 0.08 | 15 | \$114 | 47% | 2.32 |
| FE-Penelec | Facility Energy Management | Mfg: Food | Motors | Existing | end use | 64,633 | 1.9% | 0.17 | 2 | \$25 | 77% | 1.15 |
| FE-Penelec | Facility Energy Management | Mfg: Food | Motors | New | end use | 64,633 | 1.9% | 0.17 | 2 | \$25 | 77% | 1.15 |
| FE-Penelec | HE Motors | Mfg: Food | Motors | Early | end use | 64,633 | 2.0% | 0.19 | 15 | \$385 | 38% | 1.66 |
| FE-Penelec | HE Motors | Mfg: Food | Motors | New | end use | 64,633 | 2.0% | 0.19 | 15 | \$385 | 38% | 1.66 |
| FE-Penelec | HE Motors | Mfg: Food | Motors | ROB | end use | 64,633 | 2.0% | 0.19 | 15 | \$385 | 38% | 1.66 |
| FE-Penelec | High-Efficiency Ventilation System | Mfg: Food | Motors | Early | end use | 64,633 | 5.7% | 0.52 | 10 | \$4,039 | 73% | 0.36 |
| FE-Penelec | High-Efficiency Ventilation System | Mfg: Food | Motors | New | end use | 64,633 | 5.7% | 0.52 | 10 | \$4,039 | 73% | 0.36 |
| FE-Penelec | High-Efficiency Ventilation System | Mfg: Food | Motors | ROB | end use | 64,633 | 5.7% | 0.52 | 10 | \$4,039 | 73% | 0.36 |
| FE-Penelec | Improved Controls - Motors | Mfg: Food | Motors | Existing | end use | 64,633 | 4.0% | 0.37 | 10 | \$281 | 73% | 2.35 |
| FE-Penelec | Improved Controls - Motors | Mfg: Food | Motors | New | end use | 64,633 | 4.0% | 0.37 | 10 | \$281 | 73% | 2.35 |
| FE-Penelec | Motor Management Plan | Mfg: Food | Motors | Existing | end use | 64,633 | 2.9% | 0.27 | 10 | \$132 | 73% | 3.00 |
| FE-Penelec | Motor Management Plan | Mfg: Food | Motors | New | end use | 64,633 | 2.9% | 0.27 | 10 | \$132 | 73% | 3.00 |
| FE-Penelec | Motors Other | Mfg: Food | Motors | Existing | end use | 64,633 | 1.1% | 0.10 | 15 | \$13 | 83% | 6.77 |
| FE-Penelec | Motors Other | Mfg: Food | Motors | New | end use | 64,633 | 1.1% | 0.10 | 15 | \$13 | 83% | 6.77 |
| FE-Penelec | Motors: Rewind 101-200 HP | Mfg: Food | Motors | Existing | end use | 64,633 | 0.6% | 0.05 | 10 | \$82 | 27% | 1.44 |
| FE-Penelec | Motors: Rewind 101-200 HP | Mfg: Food | Motors | New | end use | 64,633 | 0.6% | 0.05 | 10 | \$82 | 27% | 1.44 |
| FE-Penelec | Motors: Rewind 201-500 HP | Mfg: Food | Motors | Existing | end use | 64,633 | 0.6% | 0.05 | 8 | \$51 | 27% | 1.66 |
| FE-Penelec | Motors: Rewind 201-500 HP | Mfg: Food | Motors | New | end use | 64,633 | 0.6% | 0.05 | 8 | \$51 | 27% | 1.67 |
| FE-Penelec | Motors: Rewind 20-50 HP | Mfg: Food | Motors | Existing | end use | 64,633 | 1.0% | 0.10 | 11 | \$240 | 42% | 1.08 |
| FE-Penelec | Motors: Rewind 20-50 HP | Mfg: Food | Motors | New | end use | 64,633 | 1.0% | 0.10 | 11 | \$240 | 42% | 1.07 |
| FE-Penelec | Motors: Rewind 500+ HP | Mfg: Food | Motors | Existing | end use | 64,633 | 0.6% | 0.05 | 8 | \$37 | 11% | 2.09 |
| FE-Penelec | Motors: Rewind 500+ HP | Mfg: Food | Motors | New | end use | 64,633 | 0.6% | 0.05 | 8 | \$37 | 11% | 2.06 |
| FE-Penelec | Motors: Rewind 51-100 HP | Mfg: Food | Motors | Existing | end use | 64,633 | 0.6% | 0.06 | 9 | \$118 | 42% | 1.05 |
| FE-Penelec | Motors: Rewind 51-100 HP | Mfg: Food | Motors | New | end use | 64,633 | 0.6% | 0.06 | 9 | \$118 | 42% | 1.04 |
| FE-Penelec | Switch from Belt drive to Direct Drive | Mfg: Food | Motors | Early | end use | 64,633 | 7.5% | 0.69 | 12 | \$1,037 | 30% | 1.72 |
| FE-Penelec | Switch from Belt drive to Direct Drive | Mfg: Food | Motors | New | end use | 64,633 | 7.5% | 0.69 | 12 | \$1,037 | 30% | 1.72 |
| FE-Penelec | Switch from Belt drive to Direct Drive | Mfg: Food | Motors | ROB | end use | 64,633 | 7.5% | 0.69 | 12 | \$1,037 | 30% | 1.72 |
| FE-Penelec | Synchronous Belts | Mfg: Food | Motors | Early | end use | 64,633 | 1.2% | 0.11 | 10 | \$95 | 30% | 2.15 |
| FE-Penelec | Synchronous Belts | Mfg: Food | Motors | New | end use | 64,633 | 1.2% | 0.11 | 10 | \$95 | 30% | 2.15 |
| FE-Penelec | Synchronous Belts | Mfg: Food | Motors | ROB | end use | 64,633 | 1.2% | 0.11 | 10 | \$95 | 30% | 2.15 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|------------------------------------|-----------|------------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Bldg Improvements | Mfg: Food | Other | Existing | end use | 44,306 | 16% | 0.85 | 15 | \$966 | 72% | 2.85 |
| FE-Penelec | Bldg Improvements | Mfg: Food | Other | New | end use | 44,306 | 16% | 0.85 | 15 | \$966 | 72% | 2.85 |
| FE-Penelec | Energy Project Management | Mfg: Food | Other | Existing | end use | 44,306 | 29% | 1.53 | 11 | \$1,582 | 63% | 2.28 |
| FE-Penelec | Energy Project Management | Mfg: Food | Other | New | end use | 44,306 | 29% | 1.53 | 11 | \$1,582 | 63% | 2.28 |
| FE-Penelec | Facility Energy Management | Mfg: Food | Other | Existing | end use | 44,306 | 1.9% | 0.10 | 2 | \$17 | 76% | 1.12 |
| FE-Penelec | Facility Energy Management | Mfg: Food | Other | New | end use | 44,306 | 1.9% | 0.10 | 2 | \$17 | 76% | 1.11 |
| FE-Penelec | Integrated Plant Energy Management | Mfg: Food | Other | Existing | end use | 44,306 | 50% | 2.64 | 11 | \$4,367 | 48% | 1.65 |
| FE-Penelec | Integrated Plant Energy Management | Mfg: Food | Other | New | end use | 44,306 | 50% | 2.64 | 11 | \$4,367 | 48% | 1.65 |
| FE-Penelec | Plant Energy Management | Mfg: Food | Other | Existing | end use | 44,306 | 12% | 0.63 | 10 | \$111 | 55% | 4.51 |
| FE-Penelec | Plant Energy Management | Mfg: Food | Other | New | end use | 44,306 | 12% | 0.63 | 10 | \$111 | 55% | 4.51 |
| FE-Penelec | Transformers | Mfg: Food | Other | Early | end use | 44,306 | 1.6% | 0.08 | 15 | \$142 | 34% | 2.12 |
| FE-Penelec | Transformers | Mfg: Food | Other | New | end use | 44,306 | 1.6% | 0.08 | 15 | \$142 | 34% | 2.12 |
| FE-Penelec | Transformers | Mfg: Food | Other | ROB | end use | 44,306 | 1.6% | 0.08 | 15 | \$142 | 34% | 2.13 |
| FE-Penelec | Air Compressor Demand Reduction | Mfg: Food | Process Air Compressor | Existing | end use | 728 | 26% | 0.02 | 10 | \$11 | 52% | 3.24 |
| FE-Penelec | Air Compressor Demand Reduction | Mfg: Food | Process Air Compressor | New | end use | 728 | 26% | 0.02 | 10 | \$11 | 52% | 3.24 |
| FE-Penelec | Air Compressor Equipment | Mfg: Food | Process Air Compressor | Early | end use | 728 | 39% | 0.04 | 10 | \$13 | 73% | 3.56 |
| FE-Penelec | Air Compressor Equipment | Mfg: Food | Process Air Compressor | New | end use | 728 | 39% | 0.04 | 10 | \$13 | 73% | 3.56 |
| FE-Penelec | Air Compressor Equipment | Mfg: Food | Process Air Compressor | ROB | end use | 728 | 39% | 0.04 | 10 | \$13 | 73% | 3.56 |
| FE-Penelec | Air Compressor Optimization | Mfg: Food | Process Air Compressor | Existing | end use | 728 | 39% | 0.04 | 10 | \$32 | 55% | 2.30 |
| FE-Penelec | Air Compressor Optimization | Mfg: Food | Process Air Compressor | New | end use | 728 | 39% | 0.04 | 10 | \$32 | 55% | 2.30 |
| FE-Penelec | Facility Energy Management | Mfg: Food | Process Air Compressor | Existing | end use | 728 | 1.9% | 0.00 | 2 | \$0.3 | 62% | 1.13 |
| FE-Penelec | Facility Energy Management | Mfg: Food | Process Air Compressor | New | end use | 728 | 1.9% | 0.00 | 2 | \$0.3 | 62% | 1.13 |
| FE-Penelec | HE Compressor motors | Mfg: Food | Process Air Compressor | Early | end use | 728 | 1.1% | 0.00 | 15 | \$2.7 | 73% | 1.45 |
| FE-Penelec | HE Compressor motors | Mfg: Food | Process Air Compressor | New | end use | 728 | 1.1% | 0.00 | 15 | \$2.7 | 73% | 1.44 |
| FE-Penelec | HE Compressor motors | Mfg: Food | Process Air Compressor | ROB | end use | 728 | 1.1% | 0.00 | 15 | \$2.7 | 73% | 1.44 |
| FE-Penelec | Improved Controls - Air Compressor | Mfg: Food | Process Air Compressor | Existing | end use | 728 | 41% | 0.04 | 10 | \$13 | 25% | 3.64 |
| FE-Penelec | Improved Controls - Air Compressor | Mfg: Food | Process Air Compressor | New | end use | 728 | 41% | 0.04 | 10 | \$13 | 25% | 3.64 |
| FE-Penelec | Low Pressure-drop Filters | Mfg: Food | Process Air Compressor | Existing | end use | 728 | 1.8% | 0.00 | 10 | \$8.3 | 61% | 0.61 |
| FE-Penelec | Low Pressure-drop Filters | Mfg: Food | Process Air Compressor | New | end use | 728 | 1.8% | 0.00 | 10 | \$8.3 | 61% | 0.61 |
| FE-Penelec | Outside Air Intake | Mfg: Food | Process Air Compressor | Existing | end use | 728 | 1.4% | 0.00 | 10 | \$4.8 | 48% | 0.79 |
| FE-Penelec | Outside Air Intake | Mfg: Food | Process Air Compressor | New | end use | 728 | 1.4% | 0.00 | 10 | \$4.8 | 48% | 0.79 |
| FE-Penelec | Receiver Capacity Addition | Mfg: Food | Process Air Compressor | Existing | end use | 728 | 6.0% | 0.01 | 10 | \$14 | 36% | 1.09 |
| FE-Penelec | Receiver Capacity Addition | Mfg: Food | Process Air Compressor | New | end use | 728 | 5.9% | 0.01 | 10 | \$14 | 36% | 1.09 |
| FE-Penelec | Refrigerated Cycling Dryers | Mfg: Food | Process Air Compressor | Early | end use | 728 | 1.7% | 0.00 | 10 | \$1.7 | 21% | 2.01 |
| FE-Penelec | Refrigerated Cycling Dryers | Mfg: Food | Process Air Compressor | New | end use | 728 | 1.7% | 0.00 | 10 | \$1.7 | 21% | 2.01 |
| FE-Penelec | Refrigerated Cycling Dryers | Mfg: Food | Process Air Compressor | ROB | end use | 728 | 1.7% | 0.00 | 10 | \$1.7 | 21% | 2.01 |
| FE-Penelec | VFD Controlled Compressor | Mfg: Food | Process Air Compressor | Early | end use | 728 | 24% | 0.02 | 10 | \$72 | 28% | 0.86 |
| FE-Penelec | VFD Controlled Compressor | Mfg: Food | Process Air Compressor | New | end use | 728 | 24% | 0.02 | 10 | \$72 | 28% | 0.86 |
| FE-Penelec | VFD Controlled Compressor | Mfg: Food | Process Air Compressor | ROB | end use | 728 | 24% | 0.02 | 10 | \$72 | 28% | 0.86 |
| FE-Penelec | Zero Loss Condensate Drain | Mfg: Food | Process Air Compressor | Early | end use | 728 | 1.9% | 0.00 | 10 | \$4.2 | 36% | 1.10 |
| FE-Penelec | Zero Loss Condensate Drain | Mfg: Food | Process Air Compressor | New | end use | 728 | 1.9% | 0.00 | 10 | \$4.2 | 36% | 1.10 |
| FE-Penelec | Zero Loss Condensate Drain | Mfg: Food | Process Air Compressor | ROB | end use | 728 | 1.8% | 0.00 | 10 | \$4.2 | 36% | 1.09 |
| FE-Penelec | Cooling Tower Optimization | Mfg: Food | Process Cooling | Existing | building | 191,862 | 20% | 13.73 | 10 | \$1,176 | 15% | 5.13 |
| FE-Penelec | Equipment: Chillers | Mfg: Food | Process Cooling | Early | end use | 242,422 | 18% | 9.04 | 15 | \$11,377 | 68% | 1.89 |
| FE-Penelec | Equipment: Chillers | Mfg: Food | Process Cooling | New | end use | 242,422 | 18% | 9.04 | 15 | \$11,377 | 68% | 1.89 |
| FE-Penelec | Equipment: Chillers | Mfg: Food | Process Cooling | ROB | end use | 242,422 | 18% | 9.04 | 15 | \$11,377 | 68% | 1.89 |
| FE-Penelec | Facility Energy Management | Mfg: Food | Process Cooling | Existing | end use | 242,422 | 1.9% | 0.93 | 2 | \$93 | 86% | 1.20 |
| FE-Penelec | Facility Energy Management | Mfg: Food | Process Cooling | New | end use | 242,422 | 1.9% | 0.93 | 2 | \$93 | 86% | 1.20 |
| FE-Penelec | Food: Refrig Storage Tuneup | Mfg: Food | Process Cooling | Existing | end use | 242,422 | 14% | 7.26 | 3 | \$1,512 | 47% | 1.40 |
| FE-Penelec | Food: Refrig Storage Tuneup | Mfg: Food | Process Cooling | New | end use | 242,422 | 14% | 7.26 | 3 | \$1,512 | 47% | 1.40 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---------------------------------------|-------------|-----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Fruit Storage Refer Retrofit | Mfg: Food | Process Cooling | Existing | end use | 242,422 | 38% | 19.32 | 10 | \$15,674 | 12% | 1.86 |
| FE-Penelec | Fruit Storage Refer Retrofit | Mfg: Food | Process Cooling | New | end use | 242,422 | 38% | 19.32 | 10 | \$15,674 | 12% | 1.86 |
| FE-Penelec | Fruit Storage Tuneup | Mfg: Food | Process Cooling | Existing | end use | 242,422 | 16% | 7.89 | 3 | \$1,644 | 12% | 1.40 |
| FE-Penelec | Fruit Storage Tuneup | Mfg: Food | Process Cooling | New | end use | 242,422 | 16% | 7.89 | 3 | \$1,644 | 12% | 1.40 |
| FE-Penelec | Improved Controls - Process Cooling | Mfg: Food | Process Cooling | Existing | end use | 242,422 | 6.0% | 3.03 | 10 | \$12,800 | 81% | 0.47 |
| FE-Penelec | Improved Controls - Process Cooling | Mfg: Food | Process Cooling | New | end use | 242,422 | 6.0% | 3.03 | 10 | \$12,800 | 81% | 0.47 |
| FE-Penelec | VFD on Cooling Tower Fan | Mfg: Food | Process Cooling | Early | motor | 191,862 | 21% | 12.10 | 15 | \$8,859 | 20% | 2.39 |
| FE-Penelec | VFD on Cooling Tower Fan | Mfg: Food | Process Cooling | New | motor | 191,862 | 22% | 12.10 | 15 | \$9,028 | 20% | 2.37 |
| FE-Penelec | VFD on Cooling Tower Fan | Mfg: Food | Process Cooling | ROB | motor | 191,862 | 22% | 12.10 | 15 | \$9,028 | 20% | 2.37 |
| FE-Penelec | Improved Controls - Process Heating | Mfg: Food | Process Heating | Existing | end use | 64,409 | 17% | 1.51 | 10 | \$740 | 77% | 3.00 |
| FE-Penelec | Improved Controls - Process Heating | Mfg: Food | Process Heating | New | end use | 64,409 | 17% | 1.51 | 10 | \$740 | 77% | 3.00 |
| FE-Penelec | Process Heat O&M | Mfg: Food | Process Heating | Existing | end use | 64,409 | 16% | 1.43 | 2 | \$447 | 77% | 0.90 |
| FE-Penelec | Process Heat O&M | Mfg: Food | Process Heating | New | end use | 64,409 | 16% | 1.43 | 2 | \$447 | 77% | 0.90 |
| FE-Penelec | Facility Energy Management | Mfg: Food | Process Other | Existing | end use | 6,206 | 1.9% | 0.02 | 2 | \$2.4 | 73% | 1.12 |
| FE-Penelec | Facility Energy Management | Mfg: Food | Process Other | New | end use | 6,206 | 1.9% | 0.02 | 2 | \$2.4 | 73% | 1.12 |
| FE-Penelec | Adjustable speed drive on compressors | Mfg: Food | Process Refrigeration | Early | end use | 124,530 | 12% | 2.13 | 10 | \$2,303 | 81% | 1.86 |
| FE-Penelec | Adjustable speed drive on compressors | Mfg: Food | Process Refrigeration | New | end use | 124,530 | 12% | 2.13 | 10 | \$2,303 | 81% | 1.86 |
| FE-Penelec | Adjustable speed drive on compressors | Mfg: Food | Process Refrigeration | ROB | end use | 124,530 | 12% | 2.13 | 10 | \$2,303 | 81% | 1.86 |
| FE-Penelec | Cold Storage Retrofit | Mfg: Food | Process Refrigeration | Existing | end use | 124,530 | 18% | 3.33 | 10 | \$3,883 | 73% | 1.74 |
| FE-Penelec | Cold Storage Retrofit | Mfg: Food | Process Refrigeration | New | end use | 124,530 | 18% | 3.33 | 10 | \$3,883 | 73% | 1.74 |
| FE-Penelec | Cold Storage Tuneup | Mfg: Food | Process Refrigeration | Existing | end use | 124,530 | 13% | 2.46 | 3 | \$950 | 73% | 1.18 |
| FE-Penelec | Cold Storage Tuneup | Mfg: Food | Process Refrigeration | New | end use | 124,530 | 13% | 2.46 | 3 | \$950 | 73% | 1.18 |
| FE-Penelec | Cooling Tower Optimization | Mfg: Food | Process Refrigeration | Existing | building | 98,558 | 20% | 7.05 | 10 | \$604 | 15% | 5.13 |
| FE-Penelec | Food: Cooling and Storage | Mfg: Food | Process Refrigeration | Existing | end use | 124,530 | 15% | 2.74 | 10 | \$5,604 | 73% | 1.13 |
| FE-Penelec | Food: Cooling and Storage | Mfg: Food | Process Refrigeration | New | end use | 124,530 | 15% | 2.74 | 10 | \$5,604 | 73% | 1.13 |
| FE-Penelec | Optimization of operating parameters | Mfg: Food | Process Refrigeration | Existing | end use | 124,530 | 13% | 2.39 | 3 | \$1,005 | 73% | 1.14 |
| FE-Penelec | Optimization of operating parameters | Mfg: Food | Process Refrigeration | New | end use | 124,530 | 13% | 2.39 | 3 | \$1,005 | 73% | 1.14 |
| FE-Penelec | Synchronous Belts | Mfg: Food | Process Refrigeration | Early | end use | 124,530 | 1.2% | 0.21 | 10 | \$184 | 81% | 2.16 |
| FE-Penelec | Synchronous Belts | Mfg: Food | Process Refrigeration | New | end use | 124,530 | 1.2% | 0.21 | 10 | \$184 | 81% | 2.16 |
| FE-Penelec | Synchronous Belts | Mfg: Food | Process Refrigeration | ROB | end use | 124,530 | 1.2% | 0.21 | 10 | \$184 | 81% | 2.16 |
| FE-Penelec | VFD on Cooling Tower Fan | Mfg: Food | Process Refrigeration | Early | motor | 98,558 | 21% | 6.22 | 15 | \$4,551 | 20% | 2.39 |
| FE-Penelec | VFD on Cooling Tower Fan | Mfg: Food | Process Refrigeration | New | motor | 98,558 | 22% | 6.22 | 15 | \$4,638 | 20% | 2.37 |
| FE-Penelec | VFD on Cooling Tower Fan | Mfg: Food | Process Refrigeration | ROB | motor | 98,558 | 22% | 6.22 | 15 | \$4,638 | 20% | 2.37 |
| FE-Penelec | Facility Energy Management | Mfg: Food | Pumps | Existing | end use | 362,306 | 1.9% | 0.87 | 2 | \$140 | 65% | 1.17 |
| FE-Penelec | Facility Energy Management | Mfg: Food | Pumps | New | end use | 362,306 | 1.9% | 0.87 | 2 | \$140 | 65% | 1.17 |
| FE-Penelec | HE Motors | Mfg: Food | Pumps | Early | end use | 362,306 | 2.0% | 0.96 | 15 | \$2,157 | 69% | 1.64 |
| FE-Penelec | HE Motors | Mfg: Food | Pumps | New | end use | 362,306 | 2.0% | 0.96 | 15 | \$2,157 | 69% | 1.64 |
| FE-Penelec | HE Motors | Mfg: Food | Pumps | ROB | end use | 362,306 | 2.0% | 0.96 | 15 | \$2,157 | 69% | 1.64 |
| FE-Penelec | Motor rewinds | Mfg: Food | Pumps | Existing | end use | 362,306 | 0.6% | 0.28 | 9 | \$515 | 11% | 1.31 |
| FE-Penelec | Motor rewinds | Mfg: Food | Pumps | New | end use | 362,306 | 0.6% | 0.28 | 9 | \$515 | 11% | 1.29 |
| FE-Penelec | Pump Equipment Upgrade | Mfg: Food | Pumps | Early | end use | 362,306 | 20% | 9.43 | 12 | \$9,058 | 77% | 2.46 |
| FE-Penelec | Pump Equipment Upgrade | Mfg: Food | Pumps | New | end use | 362,306 | 20% | 9.43 | 12 | \$9,058 | 77% | 2.46 |
| FE-Penelec | Pump Equipment Upgrade | Mfg: Food | Pumps | ROB | end use | 362,306 | 20% | 9.43 | 12 | \$9,058 | 77% | 2.46 |
| FE-Penelec | Pump System Optimization | Mfg: Food | Pumps | Existing | end use | 362,306 | 8.7% | 4.10 | 12 | \$6,634 | 36% | 1.78 |
| FE-Penelec | Pump System Optimization | Mfg: Food | Pumps | New | end use | 362,306 | 8.7% | 4.10 | 12 | \$6,634 | 36% | 1.78 |
| FE-Penelec | Synchronous Belts | Mfg: Food | Pumps | Early | end use | 362,306 | 1.2% | 0.55 | 10 | \$534 | 57% | 2.12 |
| FE-Penelec | Synchronous Belts | Mfg: Food | Pumps | New | end use | 362,306 | 1.2% | 0.55 | 10 | \$534 | 57% | 2.12 |
| FE-Penelec | Synchronous Belts | Mfg: Food | Pumps | ROB | end use | 362,306 | 1.2% | 0.55 | 10 | \$534 | 57% | 2.12 |
| FE-Penelec | Circulating Fans | Mfg: Metals | Fans | Early | end use | 1,441,365 | 5.0% | 8.58 | 10 | \$8,774 | 68% | 2.23 |
| FE-Penelec | Circulating Fans | Mfg: Metals | Fans | New | end use | 1,441,365 | 5.0% | 8.58 | 10 | \$8,774 | 68% | 2.23 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|--|-------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Circulating Fans | Mfg: Metals | Fans | ROB | end use | 1,441,365 | 5.0% | 8.58 | 10 | \$8,774 | 68% | 2.23 |
| FE-Penelec | Facility Energy Management | Mfg: Metals | Fans | Existing | end use | 1,441,365 | 1.9% | 3.16 | 2 | \$555 | 77% | 1.16 |
| FE-Penelec | Facility Energy Management | Mfg: Metals | Fans | New | end use | 1,441,365 | 1.9% | 3.16 | 2 | \$555 | 77% | 1.16 |
| FE-Penelec | HE Motors | Mfg: Metals | Fans | Early | end use | 1,441,365 | 2.0% | 3.51 | 15 | \$8,581 | 77% | 1.68 |
| FE-Penelec | HE Motors | Mfg: Metals | Fans | New | end use | 1,441,365 | 2.0% | 3.51 | 15 | \$8,581 | 77% | 1.68 |
| FE-Penelec | HE Motors | Mfg: Metals | Fans | ROB | end use | 1,441,365 | 2.0% | 3.51 | 15 | \$8,581 | 77% | 1.68 |
| FE-Penelec | Improved Controls - Fans | Mfg: Metals | Fans | Existing | end use | 1,441,365 | 7.1% | 12.19 | 10 | \$5,588 | 60% | 3.42 |
| FE-Penelec | Improved Controls - Fans | Mfg: Metals | Fans | New | end use | 1,441,365 | 7.1% | 12.19 | 10 | \$5,588 | 60% | 3.42 |
| FE-Penelec | Properly Sized Fans | Mfg: Metals | Fans | Early | end use | 1,441,365 | 13% | 22.58 | 10 | \$29,521 | 41% | 1.89 |
| FE-Penelec | Properly Sized Fans | Mfg: Metals | Fans | New | end use | 1,441,365 | 13% | 22.58 | 10 | \$29,521 | 41% | 1.89 |
| FE-Penelec | Properly Sized Fans | Mfg: Metals | Fans | ROB | end use | 1,441,365 | 13% | 22.58 | 10 | \$29,521 | 41% | 1.89 |
| FE-Penelec | Synchronous Belts | Mfg: Metals | Fans | Early | end use | 1,441,365 | 1.2% | 2.00 | 10 | \$2,124 | 41% | 2.17 |
| FE-Penelec | Synchronous Belts | Mfg: Metals | Fans | New | end use | 1,441,365 | 1.2% | 2.00 | 10 | \$2,124 | 41% | 2.17 |
| FE-Penelec | Synchronous Belts | Mfg: Metals | Fans | ROB | end use | 1,441,365 | 1.2% | 2.00 | 10 | \$2,124 | 41% | 2.17 |
| FE-Penelec | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Metals | HVAC | Early | unit (ton) | 839,618 | 9.2% | 19.99 | 15 | \$153,016 | 28% | 0.34 |
| FE-Penelec | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Metals | HVAC | New | unit (ton) | 839,618 | 4.1% | 8.98 | 15 | \$37,073 | 28% | 0.62 |
| FE-Penelec | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Metals | HVAC | ROB | unit (ton) | 839,618 | 4.1% | 8.98 | 15 | \$37,073 | 28% | 0.62 |
| FE-Penelec | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Metals | HVAC | Early | unit (ton) | 839,618 | 12% | 27.03 | 15 | \$180,390 | 28% | 0.39 |
| FE-Penelec | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Metals | HVAC | New | unit (ton) | 839,618 | 7.7% | 16.76 | 15 | \$78,083 | 28% | 0.55 |
| FE-Penelec | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Metals | HVAC | ROB | unit (ton) | 839,618 | 7.7% | 16.76 | 15 | \$78,083 | 28% | 0.55 |
| FE-Penelec | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Metals | HVAC | Early | unit (ton) | 839,618 | 15% | 33.20 | 15 | \$207,763 | 29% | 0.42 |
| FE-Penelec | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Metals | HVAC | New | unit (ton) | 839,618 | 11% | 23.56 | 15 | \$119,093 | 29% | 0.51 |
| FE-Penelec | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Metals | HVAC | ROB | unit (ton) | 839,618 | 11% | 23.56 | 15 | \$119,093 | 29% | 0.51 |
| FE-Penelec | >760k min 10.2 EER Air Conditioner | Mfg: Metals | HVAC | Early | unit (ton) | 839,618 | 2.1% | 4.63 | 15 | \$266,467 | 35% | 0.05 |
| FE-Penelec | >760k min 10.2 EER Air Conditioner | Mfg: Metals | HVAC | New | unit (ton) | 839,618 | 2.8% | 6.16 | 15 | \$24,083 | 35% | 0.65 |
| FE-Penelec | >760k min 10.2 EER Air Conditioner | Mfg: Metals | HVAC | ROB | unit (ton) | 839,618 | 2.8% | 6.16 | 15 | \$24,083 | 35% | 0.65 |
| FE-Penelec | 135-240k min 12 EER Air Conditioner | Mfg: Metals | HVAC | Early | unit (ton) | 839,618 | 10% | 22.79 | 15 | \$288,542 | 35% | 0.21 |
| FE-Penelec | 135-240k min 12 EER Air Conditioner | Mfg: Metals | HVAC | New | unit (ton) | 839,618 | 5.8% | 12.57 | 15 | \$34,070 | 35% | 0.91 |
| FE-Penelec | 135-240k min 12 EER Air Conditioner | Mfg: Metals | HVAC | ROB | unit (ton) | 839,618 | 5.8% | 12.57 | 15 | \$34,070 | 35% | 0.91 |
| FE-Penelec | 240k-760k min 11 EER Air Conditioner | Mfg: Metals | HVAC | Early | unit (ton) | 839,618 | 5.2% | 11.35 | 15 | \$266,634 | 35% | 0.11 |
| FE-Penelec | 240k-760k min 11 EER Air Conditioner | Mfg: Metals | HVAC | New | unit (ton) | 839,618 | 5.3% | 11.64 | 15 | \$28,566 | 35% | 0.99 |
| FE-Penelec | 240k-760k min 11 EER Air Conditioner | Mfg: Metals | HVAC | ROB | unit (ton) | 839,618 | 5.3% | 11.64 | 15 | \$28,566 | 35% | 0.99 |
| FE-Penelec | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Metals | HVAC | Early | unit (ton) | 839,618 | 9.7% | 21.14 | 15 | \$295,442 | 35% | 0.19 |
| FE-Penelec | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Metals | HVAC | New | unit (ton) | 839,618 | 3.8% | 8.38 | 15 | \$42,152 | 35% | 0.51 |
| FE-Penelec | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Metals | HVAC | ROB | unit (ton) | 839,618 | 3.8% | 8.38 | 15 | \$42,152 | 35% | 0.51 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Mfg: Metals | HVAC | Existing | building | 135,899 | 5.9% | 2.02 | 15 | \$411,751 | 71% | 0.01 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Mfg: Metals | HVAC | New | building | 135,899 | 3.7% | 1.27 | 15 | \$391,381 | 94% | 0.01 |
| FE-Penelec | Chiller Tuneup/Diagnostics | Mfg: Metals | HVAC | Existing | building | 135,899 | 8.0% | 3.99 | 10 | \$347,010 | 59% | 0.02 |
| FE-Penelec | Chiller Tuneup/Diagnostics | Mfg: Metals | HVAC | New | building | 135,899 | 8.0% | 3.99 | 10 | \$347,010 | 59% | 0.02 |
| FE-Penelec | Cooling Tower Optimization | Mfg: Metals | HVAC | Existing | building | 135,899 | 20% | 9.73 | 10 | \$833 | 69% | 5.43 |
| FE-Penelec | Duct Insulation, Add R8 | Mfg: Metals | HVAC | Existing | building | 135,899 | 1.5% | 0.44 | 15 | \$1,080 | 18% | 1.15 |
| FE-Penelec | Duct Insulation, Add R8 | Mfg: Metals | HVAC | New | building | 135,899 | 1.5% | 0.43 | 15 | \$1,080 | 9% | 1.15 |
| FE-Penelec | Ductless Heat Pump | Mfg: Metals | HVAC | Early | heat pump | 839,618 | 0.8% | 1.56 | 15 | \$66,380 | 83% | 0.07 |
| FE-Penelec | Ductless Heat Pump | Mfg: Metals | HVAC | New | heat pump | 839,618 | 0.4% | 0.82 | 15 | \$19,277 | 83% | 0.13 |
| FE-Penelec | Ductless Heat Pump | Mfg: Metals | HVAC | ROB | heat pump | 839,618 | 0.4% | 0.82 | 15 | \$19,277 | 83% | 0.13 |
| FE-Penelec | DX Coil Cleaning | Mfg: Metals | HVAC | Existing | building | 135,899 | 13% | 6.23 | 1 | \$1,303 | 73% | 0.51 |
| FE-Penelec | DX Coil Cleaning | Mfg: Metals | HVAC | New | building | 135,899 | 13% | 6.23 | 1 | \$1,303 | 73% | 0.51 |
| FE-Penelec | Efficient Unit Heating System | Mfg: Metals | HVAC | Early | heater | 839,618 | 6.9% | 0.48 | 15 | \$45,327 | 83% | 0.64 |
| FE-Penelec | Efficient Unit Heating System | Mfg: Metals | HVAC | New | heater | 839,618 | 4.0% | 0.28 | 15 | \$30,918 | 83% | 0.54 |
| FE-Penelec | Efficient Unit Heating System | Mfg: Metals | HVAC | ROB | heater | 839,618 | 4.0% | 0.28 | 15 | \$30,918 | 83% | 0.54 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|-------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Ground Source Heat Pump (Closed Loop) | Mfg: Metals | HVAC | Early | heat pump | 839,618 | 1.3% | 2.44 | 15 | \$137,832 | 19% | 0.05 |
| FE-Penelec | Ground Source Heat Pump (Closed Loop) | Mfg: Metals | HVAC | New | heat pump | 839,618 | 1.0% | 1.92 | 15 | \$54,421 | 19% | 0.11 |
| FE-Penelec | Ground Source Heat Pump (Closed Loop) | Mfg: Metals | HVAC | ROB | heat pump | 839,618 | 1.0% | 1.92 | 15 | \$54,421 | 19% | 0.11 |
| FE-Penelec | Ground Source Heat Pump (Open Loop) | Mfg: Metals | HVAC | Early | heat pump | 839,618 | 1.3% | 2.44 | 15 | \$88,275 | 19% | 0.08 |
| FE-Penelec | Ground Source Heat Pump (Open Loop) | Mfg: Metals | HVAC | New | heat pump | 839,618 | 1.0% | 1.92 | 15 | \$1,871 | 19% | 2.35 |
| FE-Penelec | Ground Source Heat Pump (Open Loop) | Mfg: Metals | HVAC | ROB | heat pump | 839,618 | 1.0% | 1.92 | 15 | \$1,871 | 19% | 2.35 |
| FE-Penelec | HE Air Cooled Chiller, 100 Tons | Mfg: Metals | HVAC | Early | unit (ton) | 839,618 | 1.5% | 2.76 | 15 | \$976,698 | 89% | 0.01 |
| FE-Penelec | HE Air Cooled Chiller, 100 Tons | Mfg: Metals | HVAC | New | unit (ton) | 839,618 | 0.4% | 0.78 | 15 | \$142,287 | 89% | 0.02 |
| FE-Penelec | HE Air Cooled Chiller, 100 Tons | Mfg: Metals | HVAC | ROB | unit (ton) | 839,618 | 0.4% | 0.78 | 15 | \$142,287 | 89% | 0.02 |
| FE-Penelec | HE Air Cooled Chiller, 150 Tons | Mfg: Metals | HVAC | Early | unit (ton) | 839,618 | 1.4% | 2.72 | 15 | \$843,649 | 89% | 0.01 |
| FE-Penelec | HE Air Cooled Chiller, 150 Tons | Mfg: Metals | HVAC | New | unit (ton) | 839,618 | 0.3% | 0.56 | 15 | \$69,877 | 89% | 0.02 |
| FE-Penelec | HE Air Cooled Chiller, 150 Tons | Mfg: Metals | HVAC | ROB | unit (ton) | 839,618 | 0.3% | 0.56 | 15 | \$69,877 | 89% | 0.02 |
| FE-Penelec | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Metals | HVAC | Early | heat pump | 839,618 | 1.4% | 2.58 | 12 | \$35,980 | 81% | 0.17 |
| FE-Penelec | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Metals | HVAC | Early | heat pump | 839,618 | 1.1% | 2.12 | 12 | \$26,287 | 81% | 0.19 |
| FE-Penelec | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Metals | HVAC | New | heat pump | 839,618 | 1.0% | 1.92 | 12 | \$16,064 | 81% | 0.28 |
| FE-Penelec | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Metals | HVAC | New | heat pump | 839,618 | 0.8% | 1.43 | 12 | \$5,615 | 81% | 0.58 |
| FE-Penelec | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Metals | HVAC | ROB | heat pump | 839,618 | 1.0% | 1.92 | 12 | \$16,064 | 81% | 0.28 |
| FE-Penelec | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Metals | HVAC | ROB | heat pump | 839,618 | 0.8% | 1.43 | 12 | \$5,615 | 81% | 0.58 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Metals | HVAC | Early | unit (ton) | 839,618 | 1.6% | 3.00 | 15 | \$77,496 | 89% | 0.12 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Metals | HVAC | New | unit (ton) | 839,618 | 0.9% | 1.73 | 15 | \$25,775 | 89% | 0.20 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Metals | HVAC | ROB | unit (ton) | 839,618 | 0.9% | 1.73 | 15 | \$25,775 | 89% | 0.20 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Metals | HVAC | Early | unit (ton) | 839,618 | 1.4% | 2.65 | 15 | \$75,686 | 89% | 0.11 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Metals | HVAC | New | unit (ton) | 839,618 | 1.0% | 1.86 | 15 | \$14,780 | 89% | 0.37 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Metals | HVAC | ROB | unit (ton) | 839,618 | 1.4% | 2.65 | 15 | \$13,577 | 89% | 0.56 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Metals | HVAC | Early | unit (ton) | 839,618 | 1.4% | 2.62 | 15 | \$89,579 | 89% | 0.09 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Metals | HVAC | New | unit (ton) | 839,618 | 0.9% | 1.68 | 15 | \$37,715 | 89% | 0.13 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Metals | HVAC | ROB | unit (ton) | 839,618 | 1.4% | 2.62 | 15 | \$34,135 | 89% | 0.23 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Metals | HVAC | Early | unit (ton) | 839,618 | 1.4% | 2.62 | 15 | \$86,288 | 89% | 0.09 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Metals | HVAC | New | unit (ton) | 839,618 | 0.9% | 1.68 | 15 | \$32,784 | 89% | 0.15 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Metals | HVAC | ROB | unit (ton) | 839,618 | 1.4% | 2.62 | 15 | \$29,671 | 89% | 0.26 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Metals | HVAC | Early | unit (ton) | 839,618 | 1.8% | 3.40 | 15 | \$92,977 | 89% | 0.11 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Metals | HVAC | New | unit (ton) | 839,618 | 0.5% | 1.04 | 15 | \$57,573 | 89% | 0.05 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Metals | HVAC | ROB | unit (ton) | 839,618 | 1.8% | 3.40 | 15 | \$44,705 | 89% | 0.23 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Metals | HVAC | Early | unit (ton) | 839,618 | 2.1% | 4.04 | 15 | \$85,519 | 89% | 0.14 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Metals | HVAC | New | unit (ton) | 839,618 | 0.8% | 1.46 | 15 | \$34,316 | 89% | 0.13 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Metals | HVAC | ROB | unit (ton) | 839,618 | 0.8% | 1.46 | 15 | \$34,316 | 89% | 0.13 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Metals | HVAC | Early | unit (ton) | 839,618 | 2.4% | 4.54 | 15 | \$72,481 | 89% | 0.19 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Metals | HVAC | New | unit (ton) | 839,618 | 0.9% | 1.70 | 15 | \$18,238 | 89% | 0.27 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Metals | HVAC | ROB | unit (ton) | 839,618 | 2.4% | 4.54 | 15 | \$13,004 | 89% | 0.95 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Metals | HVAC | Early | unit (ton) | 839,618 | 1.8% | 3.43 | 15 | \$71,751 | 89% | 0.14 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Metals | HVAC | New | unit (ton) | 839,618 | 0.7% | 1.29 | 15 | \$20,092 | 89% | 0.19 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Metals | HVAC | ROB | unit (ton) | 839,618 | 1.8% | 3.43 | 15 | \$15,918 | 89% | 0.61 |
| FE-Penelec | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Metals | HVAC | Existing | building | 135,899 | 2.9% | 0.80 | 5 | \$1,442 | 55% | 0.61 |
| FE-Penelec | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Metals | HVAC | New | building | 135,899 | 0.6% | 0.32 | 5 | \$865 | 51% | 0.29 |
| FE-Penelec | Improved Controls - HVAC | Mfg: Metals | HVAC | Existing | end use | 135,899 | 21% | 4.08 | 10 | \$1,429 | 76% | 3.68 |
| FE-Penelec | Improved Controls - HVAC | Mfg: Metals | HVAC | New | end use | 135,899 | 21% | 4.08 | 10 | \$1,429 | 76% | 3.68 |
| FE-Penelec | Outside Air Economizer | Mfg: Metals | HVAC | Existing | building | 135,899 | 1.1% | 0.38 | 10 | \$499,317 | 82% | 0.00 |
| FE-Penelec | Outside Air Economizer | Mfg: Metals | HVAC | New | building | 135,899 | 1.1% | 0.38 | 10 | \$499,317 | 82% | 0.00 |
| FE-Penelec | Recommissioning | Mfg: Metals | HVAC | Existing | end use | 135,899 | 5.0% | 0.98 | 10 | \$186 | 88% | 4.54 |
| FE-Penelec | Recommissioning | Mfg: Metals | HVAC | New | end use | 135,899 | 5.0% | 0.98 | 10 | \$186 | 88% | 4.54 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---------------------------------------|-------------|----------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Room AC (with louvered sides) | Mfg: Metals | HVAC | Early | unit (ton) | 839,618 | 7.7% | 14.58 | 9 | \$65,838 | 78% | 0.41 |
| FE-Penelec | Room AC (with louvered sides) | Mfg: Metals | HVAC | New | unit (ton) | 839,618 | 2.6% | 4.86 | 9 | \$3,605 | 78% | 1.88 |
| FE-Penelec | Room AC (with louvered sides) | Mfg: Metals | HVAC | ROB | unit (ton) | 839,618 | 2.6% | 4.86 | 9 | \$3,605 | 78% | 1.88 |
| FE-Penelec | Variable Refrigerant Flow Heat Pump | Mfg: Metals | HVAC | New | measure | 839,618 | 0.1% | 0.22 | 13 | \$6,181 | 43% | 0.09 |
| FE-Penelec | Variable Refrigerant Flow Heat Pump | Mfg: Metals | HVAC | ROB | measure | 839,618 | 0.1% | 0.22 | 13 | \$6,181 | 43% | 0.09 |
| FE-Penelec | VFD on Cooling Tower Fan | Mfg: Metals | HVAC | Early | motor | 839,618 | 21% | 52.95 | 15 | \$38,770 | 15% | 2.54 |
| FE-Penelec | VFD on Cooling Tower Fan | Mfg: Metals | HVAC | New | motor | 839,618 | 22% | 52.95 | 15 | \$39,509 | 15% | 2.52 |
| FE-Penelec | VFD on Cooling Tower Fan | Mfg: Metals | HVAC | ROB | motor | 839,618 | 22% | 52.95 | 15 | \$39,509 | 15% | 2.52 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Mfg: Metals | HVAC | Existing | building | 135,899 | 19% | 6.50 | 15 | \$96,674 | 26% | 0.18 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Mfg: Metals | HVAC | New | building | 135,899 | 0.6% | 0.21 | 15 | \$74,153 | 94% | 0.01 |
| FE-Penelec | Water Source Heat Pump (4 ton) | Mfg: Metals | HVAC | Early | heat pump | 839,618 | 1.5% | 2.90 | 15 | \$142,732 | 28% | 0.06 |
| FE-Penelec | Water Source Heat Pump (4 ton) | Mfg: Metals | HVAC | New | heat pump | 839,618 | 1.1% | 2.13 | 15 | \$69,564 | 28% | 0.09 |
| FE-Penelec | Water Source Heat Pump (4 ton) | Mfg: Metals | HVAC | ROB | heat pump | 839,618 | 1.1% | 2.13 | 15 | \$69,564 | 28% | 0.09 |
| FE-Penelec | Efficient Metal Halide (High Bay) | Mfg: Metals | Lighting | Early | end use | 832,065 | 42% | 0.00 | 9 | \$130,020 | 53% | 0.76 |
| FE-Penelec | Efficient Metal Halide (High Bay) | Mfg: Metals | Lighting | New | end use | 832,065 | 41% | 0.00 | 13 | \$3,472,880 | 61% | 0.05 |
| FE-Penelec | Efficient Metal Halide (High Bay) | Mfg: Metals | Lighting | ROB | end use | 832,065 | 41% | 0.00 | 13 | \$2,654,168 | 61% | 0.06 |
| FE-Penelec | Induction (High Bay) | Mfg: Metals | Lighting | Early | end use | 832,065 | 94% | 0.00 | 13 | \$386,866 | 95% | 0.82 |
| FE-Penelec | Induction (High Bay) | Mfg: Metals | Lighting | New | end use | 832,065 | 94% | 0.00 | 13 | \$362,203 | 95% | 0.87 |
| FE-Penelec | Induction (High Bay) | Mfg: Metals | Lighting | ROB | end use | 832,065 | 94% | 0.00 | 13 | \$275,286 | 95% | 1.10 |
| FE-Penelec | LED (High Bay) | Mfg: Metals | Lighting | Early | end use | 832,065 | 69% | 0.01 | 14 | \$455,397 | 95% | 0.57 |
| FE-Penelec | LED (High Bay) | Mfg: Metals | Lighting | New | end use | 832,065 | 55% | 0.01 | 14 | \$505,479 | 95% | 0.42 |
| FE-Penelec | LED (High Bay) | Mfg: Metals | Lighting | ROB | end use | 832,065 | 59% | 0.01 | 14 | \$333,052 | 95% | 0.66 |
| FE-Penelec | Lighting Controls | Mfg: Metals | Lighting | Existing | end use | 832,065 | 20% | 0.00 | 6 | \$3,119,314 | 16% | 0.01 |
| FE-Penelec | Lighting Controls | Mfg: Metals | Lighting | New | end use | 832,065 | 12% | 0.01 | 10 | \$4,149,707 | 11% | 0.01 |
| FE-Penelec | Linear Fluorescent (High Bay) | Mfg: Metals | Lighting | Early | end use | 832,065 | 17% | 0.00 | 14 | \$95,206 | 98% | 0.66 |
| FE-Penelec | Linear Fluorescent (High Bay) | Mfg: Metals | Lighting | New | end use | 832,065 | 13% | 0.00 | 14 | \$30,193 | 91% | 1.39 |
| FE-Penelec | Linear Fluorescent (High Bay) | Mfg: Metals | Lighting | ROB | end use | 832,065 | 13% | 0.00 | 14 | \$19,330 | 91% | 2.01 |
| FE-Penelec | Metal Halide (High Bay) | Mfg: Metals | Lighting | Early | end use | 832,065 | 62% | 0.00 | 13 | \$571,992 | 38% | 0.39 |
| FE-Penelec | Metal Halide (High Bay) | Mfg: Metals | Lighting | New | end use | 832,065 | 73% | 0.00 | 13 | \$136,755 | 38% | 1.56 |
| FE-Penelec | Metal Halide (High Bay) | Mfg: Metals | Lighting | ROB | end use | 832,065 | 73% | 0.00 | 13 | \$103,934 | 38% | 1.91 |
| FE-Penelec | Screw Base CFL | Mfg: Metals | Lighting | Early | end use | 832,065 | 80% | 0.00 | 7 | \$226,054 | 17% | 0.66 |
| FE-Penelec | Screw Base CFL | Mfg: Metals | Lighting | New | end use | 832,065 | 73% | 0.00 | 9 | \$184,741 | 18% | 0.90 |
| FE-Penelec | Screw Base CFL | Mfg: Metals | Lighting | ROB | end use | 832,065 | 73% | 0.00 | 9 | \$154,628 | 17% | 1.03 |
| FE-Penelec | Screw Base LED | Mfg: Metals | Lighting | Early | end use | 832,065 | 76% | 0.00 | 9 | \$138,731 | 21% | 1.21 |
| FE-Penelec | Screw Base LED | Mfg: Metals | Lighting | New | end use | 832,065 | 77% | 0.00 | 9 | \$77,282 | 20% | 1.84 |
| FE-Penelec | Screw Base LED | Mfg: Metals | Lighting | ROB | end use | 832,065 | 77% | 0.00 | 9 | \$61,351 | 21% | 2.11 |
| FE-Penelec | T8 High Performance Linear Florescent | Mfg: Metals | Lighting | Early | end use | 832,065 | 36% | 0.00 | 14 | \$79,623 | 71% | 1.48 |
| FE-Penelec | T8 High Performance Linear Florescent | Mfg: Metals | Lighting | New | end use | 832,065 | 26% | 0.00 | 14 | \$28,487 | 76% | 2.49 |
| FE-Penelec | T8 High Performance Linear Florescent | Mfg: Metals | Lighting | ROB | end use | 832,065 | 26% | 0.00 | 14 | \$21,652 | 76% | 2.94 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Metals | Motors | Early | end use | 455,061 | 0.9% | 0.59 | 15 | \$6,951 | 81% | 0.34 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Metals | Motors | New | end use | 455,061 | 0.9% | 0.59 | 15 | \$6,951 | 81% | 0.35 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Metals | Motors | ROB | end use | 455,061 | 0.9% | 0.59 | 15 | \$6,951 | 81% | 0.35 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Metals | Motors | Early | end use | 455,061 | 0.7% | 0.48 | 15 | \$4,222 | 73% | 0.46 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Metals | Motors | New | end use | 455,061 | 0.8% | 0.48 | 15 | \$4,222 | 73% | 0.46 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Metals | Motors | ROB | end use | 455,061 | 0.8% | 0.48 | 15 | \$4,222 | 73% | 0.46 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Metals | Motors | Early | end use | 455,061 | 0.4% | 0.29 | 15 | \$1,618 | 81% | 0.69 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Metals | Motors | New | end use | 455,061 | 0.5% | 0.29 | 15 | \$1,618 | 81% | 0.70 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Metals | Motors | ROB | end use | 455,061 | 0.5% | 0.29 | 15 | \$1,618 | 81% | 0.70 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Metals | Motors | Early | end use | 455,061 | 0.4% | 0.25 | 15 | \$534 | 73% | 1.64 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Metals | Motors | New | end use | 455,061 | 0.4% | 0.25 | 15 | \$534 | 73% | 1.68 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|--|-------------|------------------------|----------|---------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Metals | Motors | ROB | end use | 455,061 | 0.4% | 0.25 | 15 | \$534 | 73% | 1.68 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Metals | Motors | Early | end use | 455,061 | 0.9% | 0.59 | 15 | \$800 | 47% | 2.28 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Metals | Motors | New | end use | 455,061 | 0.9% | 0.59 | 15 | \$800 | 47% | 2.30 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Metals | Motors | ROB | end use | 455,061 | 0.9% | 0.59 | 15 | \$800 | 47% | 2.28 |
| FE-Penelec | Facility Energy Management | Mfg: Metals | Motors | Existing | end use | 455,061 | 1.8% | 1.20 | 2 | \$175 | 77% | 1.14 |
| FE-Penelec | Facility Energy Management | Mfg: Metals | Motors | New | end use | 455,061 | 1.9% | 1.20 | 2 | \$175 | 77% | 1.14 |
| FE-Penelec | HE Motors | Mfg: Metals | Motors | Early | end use | 455,061 | 2.0% | 1.33 | 15 | \$2,709 | 38% | 1.66 |
| FE-Penelec | HE Motors | Mfg: Metals | Motors | New | end use | 455,061 | 2.0% | 1.33 | 15 | \$2,709 | 38% | 1.66 |
| FE-Penelec | HE Motors | Mfg: Metals | Motors | ROB | end use | 455,061 | 2.0% | 1.33 | 15 | \$2,709 | 38% | 1.66 |
| FE-Penelec | High-Efficiency Ventilation System | Mfg: Metals | Motors | Early | end use | 455,061 | 5.7% | 3.68 | 10 | \$28,438 | 73% | 0.36 |
| FE-Penelec | High-Efficiency Ventilation System | Mfg: Metals | Motors | New | end use | 455,061 | 5.7% | 3.68 | 10 | \$28,438 | 73% | 0.36 |
| FE-Penelec | High-Efficiency Ventilation System | Mfg: Metals | Motors | ROB | end use | 455,061 | 5.7% | 3.68 | 10 | \$28,438 | 73% | 0.36 |
| FE-Penelec | Improved Controls - Motors | Mfg: Metals | Motors | Existing | end use | 455,061 | 4.0% | 2.57 | 10 | \$1,978 | 73% | 2.35 |
| FE-Penelec | Improved Controls - Motors | Mfg: Metals | Motors | New | end use | 455,061 | 4.0% | 2.57 | 10 | \$1,978 | 73% | 2.35 |
| FE-Penelec | Motor Management Plan | Mfg: Metals | Motors | Existing | end use | 455,061 | 2.9% | 1.88 | 10 | \$928 | 73% | 3.00 |
| FE-Penelec | Motor Management Plan | Mfg: Metals | Motors | New | end use | 455,061 | 2.9% | 1.88 | 10 | \$928 | 73% | 3.00 |
| FE-Penelec | Motors Other | Mfg: Metals | Motors | Existing | end use | 455,061 | 1.1% | 0.71 | 15 | \$91 | 83% | 6.77 |
| FE-Penelec | Motors Other | Mfg: Metals | Motors | New | end use | 455,061 | 1.1% | 0.71 | 15 | \$91 | 83% | 6.77 |
| FE-Penelec | Motors: Rewind 101-200 HP | Mfg: Metals | Motors | Existing | end use | 455,061 | 0.6% | 0.36 | 10 | \$575 | 27% | 1.43 |
| FE-Penelec | Motors: Rewind 101-200 HP | Mfg: Metals | Motors | New | end use | 455,061 | 0.6% | 0.36 | 10 | \$575 | 27% | 1.43 |
| FE-Penelec | Motors: Rewind 201-500 HP | Mfg: Metals | Motors | Existing | end use | 455,061 | 0.6% | 0.36 | 8 | \$361 | 27% | 1.67 |
| FE-Penelec | Motors: Rewind 201-500 HP | Mfg: Metals | Motors | New | end use | 455,061 | 0.6% | 0.36 | 8 | \$361 | 27% | 1.67 |
| FE-Penelec | Motors: Rewind 20-50 HP | Mfg: Metals | Motors | Existing | end use | 455,061 | 1.0% | 0.67 | 11 | \$1,689 | 42% | 1.08 |
| FE-Penelec | Motors: Rewind 20-50 HP | Mfg: Metals | Motors | New | end use | 455,061 | 1.0% | 0.67 | 11 | \$1,689 | 42% | 1.08 |
| FE-Penelec | Motors: Rewind 500+ HP | Mfg: Metals | Motors | Existing | end use | 455,061 | 0.6% | 0.36 | 8 | \$258 | 11% | 2.09 |
| FE-Penelec | Motors: Rewind 500+ HP | Mfg: Metals | Motors | New | end use | 455,061 | 0.6% | 0.36 | 8 | \$258 | 11% | 2.08 |
| FE-Penelec | Motors: Rewind 51-100 HP | Mfg: Metals | Motors | Existing | end use | 455,061 | 0.6% | 0.39 | 9 | \$834 | 42% | 1.05 |
| FE-Penelec | Motors: Rewind 51-100 HP | Mfg: Metals | Motors | New | end use | 455,061 | 0.6% | 0.39 | 9 | \$834 | 42% | 1.04 |
| FE-Penelec | Switch from Belt drive to Direct Drive | Mfg: Metals | Motors | Early | end use | 455,061 | 7.5% | 4.88 | 12 | \$7,301 | 30% | 1.72 |
| FE-Penelec | Switch from Belt drive to Direct Drive | Mfg: Metals | Motors | New | end use | 455,061 | 7.5% | 4.88 | 12 | \$7,301 | 30% | 1.72 |
| FE-Penelec | Switch from Belt drive to Direct Drive | Mfg: Metals | Motors | ROB | end use | 455,061 | 7.5% | 4.88 | 12 | \$7,301 | 30% | 1.72 |
| FE-Penelec | Synchronous Belts | Mfg: Metals | Motors | Early | end use | 455,061 | 1.2% | 0.76 | 10 | \$671 | 30% | 2.15 |
| FE-Penelec | Synchronous Belts | Mfg: Metals | Motors | New | end use | 455,061 | 1.2% | 0.76 | 10 | \$671 | 30% | 2.15 |
| FE-Penelec | Synchronous Belts | Mfg: Metals | Motors | ROB | end use | 455,061 | 1.2% | 0.76 | 10 | \$671 | 30% | 2.15 |
| FE-Penelec | Bldg Improvements | Mfg: Metals | Other | Existing | end use | 293,466 | 16% | 5.65 | 15 | \$6,399 | 72% | 2.85 |
| FE-Penelec | Bldg Improvements | Mfg: Metals | Other | New | end use | 293,466 | 16% | 5.65 | 15 | \$6,399 | 72% | 2.85 |
| FE-Penelec | Energy Project Management | Mfg: Metals | Other | Existing | end use | 293,466 | 29% | 10.13 | 11 | \$10,475 | 63% | 2.28 |
| FE-Penelec | Energy Project Management | Mfg: Metals | Other | New | end use | 293,466 | 29% | 10.13 | 11 | \$10,475 | 63% | 2.28 |
| FE-Penelec | Facility Energy Management | Mfg: Metals | Other | Existing | end use | 293,466 | 1.9% | 0.64 | 2 | \$113 | 76% | 1.11 |
| FE-Penelec | Facility Energy Management | Mfg: Metals | Other | New | end use | 293,466 | 1.9% | 0.64 | 2 | \$113 | 76% | 1.11 |
| FE-Penelec | Integrated Plant Energy Management | Mfg: Metals | Other | Existing | end use | 293,466 | 50% | 17.47 | 11 | \$28,926 | 48% | 1.65 |
| FE-Penelec | Integrated Plant Energy Management | Mfg: Metals | Other | New | end use | 293,466 | 50% | 17.47 | 11 | \$28,926 | 48% | 1.65 |
| FE-Penelec | Plant Energy Management | Mfg: Metals | Other | Existing | end use | 293,466 | 12% | 4.19 | 10 | \$737 | 55% | 4.51 |
| FE-Penelec | Plant Energy Management | Mfg: Metals | Other | New | end use | 293,466 | 12% | 4.19 | 10 | \$737 | 55% | 4.51 |
| FE-Penelec | Transformers | Mfg: Metals | Other | Early | end use | 293,466 | 1.6% | 0.56 | 15 | \$938 | 34% | 2.13 |
| FE-Penelec | Transformers | Mfg: Metals | Other | New | end use | 293,466 | 1.6% | 0.56 | 15 | \$938 | 34% | 2.13 |
| FE-Penelec | Transformers | Mfg: Metals | Other | ROB | end use | 293,466 | 1.6% | 0.56 | 15 | \$938 | 34% | 2.12 |
| FE-Penelec | Air Compressor Demand Reduction | Mfg: Metals | Process Air Compressor | Existing | end use | 42,556 | 26% | 1.42 | 10 | \$638 | 40% | 3.24 |
| FE-Penelec | Air Compressor Demand Reduction | Mfg: Metals | Process Air Compressor | New | end use | 42,556 | 26% | 1.42 | 10 | \$638 | 40% | 3.24 |
| FE-Penelec | Air Compressor Equipment | Mfg: Metals | Process Air Compressor | Early | end use | 42,556 | 39% | 2.15 | 10 | \$771 | 56% | 3.56 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---------------------------------------|-------------|------------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Air Compressor Equipment | Mfg: Metals | Process Air Compressor | New | end use | 42,556 | 39% | 2.15 | 10 | \$771 | 56% | 3.56 |
| FE-Penelec | Air Compressor Equipment | Mfg: Metals | Process Air Compressor | ROB | end use | 42,556 | 39% | 2.15 | 10 | \$771 | 56% | 3.56 |
| FE-Penelec | Air Compressor Optimization | Mfg: Metals | Process Air Compressor | Existing | end use | 42,556 | 39% | 2.18 | 10 | \$1,855 | 42% | 2.30 |
| FE-Penelec | Air Compressor Optimization | Mfg: Metals | Process Air Compressor | New | end use | 42,556 | 39% | 2.18 | 10 | \$1,855 | 42% | 2.30 |
| FE-Penelec | Facility Energy Management | Mfg: Metals | Process Air Compressor | Existing | end use | 42,556 | 1.9% | 0.10 | 2 | \$16 | 50% | 1.13 |
| FE-Penelec | Facility Energy Management | Mfg: Metals | Process Air Compressor | New | end use | 42,556 | 1.9% | 0.10 | 2 | \$16 | 50% | 1.13 |
| FE-Penelec | HE Compressor motors | Mfg: Metals | Process Air Compressor | Early | end use | 42,556 | 1.1% | 0.06 | 15 | \$160 | 56% | 1.44 |
| FE-Penelec | HE Compressor motors | Mfg: Metals | Process Air Compressor | New | end use | 42,556 | 1.1% | 0.06 | 15 | \$160 | 56% | 1.44 |
| FE-Penelec | HE Compressor motors | Mfg: Metals | Process Air Compressor | ROB | end use | 42,556 | 1.1% | 0.06 | 15 | \$160 | 56% | 1.43 |
| FE-Penelec | Improved Controls - Air Compressor | Mfg: Metals | Process Air Compressor | Existing | end use | 42,556 | 41% | 2.25 | 10 | \$760 | 19% | 3.64 |
| FE-Penelec | Improved Controls - Air Compressor | Mfg: Metals | Process Air Compressor | New | end use | 42,556 | 41% | 2.25 | 10 | \$760 | 19% | 3.64 |
| FE-Penelec | Low Pressure-drop Filters | Mfg: Metals | Process Air Compressor | Existing | end use | 42,556 | 1.8% | 0.10 | 10 | \$483 | 46% | 0.61 |
| FE-Penelec | Low Pressure-drop Filters | Mfg: Metals | Process Air Compressor | New | end use | 42,556 | 1.9% | 0.10 | 10 | \$483 | 46% | 0.61 |
| FE-Penelec | Outside Air Intake | Mfg: Metals | Process Air Compressor | Existing | end use | 42,556 | 1.4% | 0.08 | 10 | \$280 | 37% | 0.79 |
| FE-Penelec | Outside Air Intake | Mfg: Metals | Process Air Compressor | New | end use | 42,556 | 1.4% | 0.08 | 10 | \$280 | 37% | 0.79 |
| FE-Penelec | Receiver Capacity Addition | Mfg: Metals | Process Air Compressor | Existing | end use | 42,556 | 5.9% | 0.33 | 10 | \$792 | 28% | 1.09 |
| FE-Penelec | Receiver Capacity Addition | Mfg: Metals | Process Air Compressor | New | end use | 42,556 | 6.0% | 0.33 | 10 | \$792 | 28% | 1.09 |
| FE-Penelec | Refrigerated Cycling Dryers | Mfg: Metals | Process Air Compressor | Early | end use | 42,556 | 1.7% | 0.09 | 10 | \$98 | 16% | 2.01 |
| FE-Penelec | Refrigerated Cycling Dryers | Mfg: Metals | Process Air Compressor | New | end use | 42,556 | 1.7% | 0.09 | 10 | \$98 | 16% | 2.00 |
| FE-Penelec | Refrigerated Cycling Dryers | Mfg: Metals | Process Air Compressor | ROB | end use | 42,556 | 1.7% | 0.09 | 10 | \$98 | 16% | 2.00 |
| FE-Penelec | VFD Controlled Compressor | Mfg: Metals | Process Air Compressor | Early | end use | 42,556 | 24% | 1.31 | 10 | \$4,189 | 22% | 0.86 |
| FE-Penelec | VFD Controlled Compressor | Mfg: Metals | Process Air Compressor | New | end use | 42,556 | 24% | 1.31 | 10 | \$4,189 | 22% | 0.86 |
| FE-Penelec | VFD Controlled Compressor | Mfg: Metals | Process Air Compressor | ROB | end use | 42,556 | 24% | 1.31 | 10 | \$4,189 | 22% | 0.86 |
| FE-Penelec | Zero Loss Condensate Drain | Mfg: Metals | Process Air Compressor | Early | end use | 42,556 | 1.9% | 0.10 | 10 | \$244 | 28% | 1.10 |
| FE-Penelec | Zero Loss Condensate Drain | Mfg: Metals | Process Air Compressor | New | end use | 42,556 | 1.8% | 0.10 | 10 | \$244 | 28% | 1.09 |
| FE-Penelec | Zero Loss Condensate Drain | Mfg: Metals | Process Air Compressor | ROB | end use | 42,556 | 1.8% | 0.10 | 10 | \$244 | 28% | 1.09 |
| FE-Penelec | Cooling Tower Optimization | Mfg: Metals | Process Cooling | Existing | building | 22,571 | 20% | 1.62 | 10 | \$138 | 15% | 5.13 |
| FE-Penelec | Equipment: Chillers | Mfg: Metals | Process Cooling | Early | end use | 139,451 | 18% | 5.20 | 15 | \$6,545 | 39% | 1.89 |
| FE-Penelec | Equipment: Chillers | Mfg: Metals | Process Cooling | New | end use | 139,451 | 18% | 5.20 | 15 | \$6,545 | 39% | 1.89 |
| FE-Penelec | Equipment: Chillers | Mfg: Metals | Process Cooling | ROB | end use | 139,451 | 18% | 5.20 | 15 | \$6,545 | 39% | 1.89 |
| FE-Penelec | Facility Energy Management | Mfg: Metals | Process Cooling | Existing | end use | 139,451 | 1.9% | 0.54 | 2 | \$54 | 50% | 1.20 |
| FE-Penelec | Facility Energy Management | Mfg: Metals | Process Cooling | New | end use | 139,451 | 1.9% | 0.54 | 2 | \$54 | 50% | 1.20 |
| FE-Penelec | Improved Controls - Process Cooling | Mfg: Metals | Process Cooling | Existing | end use | 139,451 | 6.0% | 1.74 | 10 | \$7,363 | 47% | 0.47 |
| FE-Penelec | Improved Controls - Process Cooling | Mfg: Metals | Process Cooling | New | end use | 139,451 | 6.0% | 1.74 | 10 | \$7,363 | 47% | 0.47 |
| FE-Penelec | VFD on Cooling Tower Fan | Mfg: Metals | Process Cooling | Early | motor | 22,571 | 21% | 1.42 | 15 | \$1,042 | 20% | 2.39 |
| FE-Penelec | VFD on Cooling Tower Fan | Mfg: Metals | Process Cooling | New | motor | 22,571 | 22% | 1.42 | 15 | \$1,062 | 20% | 2.37 |
| FE-Penelec | VFD on Cooling Tower Fan | Mfg: Metals | Process Cooling | ROB | motor | 22,571 | 22% | 1.42 | 15 | \$1,062 | 20% | 2.37 |
| FE-Penelec | Improved Controls - Process Heating | Mfg: Metals | Process Heating | Existing | end use | 5,340,511 | 17% | 125.51 | 10 | \$61,359 | 89% | 3.00 |
| FE-Penelec | Improved Controls - Process Heating | Mfg: Metals | Process Heating | New | end use | 5,340,511 | 17% | 125.51 | 10 | \$61,359 | 89% | 3.00 |
| FE-Penelec | Metal: New Arc Furnace | Mfg: Metals | Process Heating | Early | end use | 5,340,511 | 45% | 328.32 | 10 | \$221,884 | 2% | 2.47 |
| FE-Penelec | Metal: New Arc Furnace | Mfg: Metals | Process Heating | New | end use | 5,340,511 | 45% | 328.32 | 10 | \$221,884 | 2% | 2.47 |
| FE-Penelec | Metal: New Arc Furnace | Mfg: Metals | Process Heating | ROB | end use | 5,340,511 | 45% | 328.32 | 10 | \$221,884 | 2% | 2.47 |
| FE-Penelec | Process Heat O&M | Mfg: Metals | Process Heating | Existing | end use | 5,340,511 | 16% | 118.69 | 2 | \$37,083 | 89% | 0.90 |
| FE-Penelec | Process Heat O&M | Mfg: Metals | Process Heating | New | end use | 5,340,511 | 16% | 118.69 | 2 | \$37,083 | 89% | 0.90 |
| FE-Penelec | Facility Energy Management | Mfg: Metals | Process Other | Existing | end use | 2,563,098 | 1.9% | 6.62 | 2 | \$988 | 73% | 1.12 |
| FE-Penelec | Facility Energy Management | Mfg: Metals | Process Other | New | end use | 2,563,098 | 1.9% | 6.62 | 2 | \$988 | 73% | 1.12 |
| FE-Penelec | Adjustable speed drive on compressors | Mfg: Metals | Process Refrigeration | Early | end use | 71,635 | 12% | 1.23 | 10 | \$1,325 | 30% | 1.86 |
| FE-Penelec | Adjustable speed drive on compressors | Mfg: Metals | Process Refrigeration | New | end use | 71,635 | 12% | 1.23 | 10 | \$1,325 | 30% | 1.86 |
| FE-Penelec | Adjustable speed drive on compressors | Mfg: Metals | Process Refrigeration | ROB | end use | 71,635 | 12% | 1.23 | 10 | \$1,325 | 30% | 1.86 |
| FE-Penelec | Cooling Tower Optimization | Mfg: Metals | Process Refrigeration | Existing | building | 11,595 | 20% | 0.83 | 10 | \$71 | 15% | 5.13 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|--------------------------------------|-------------|-----------------------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Optimization of operating parameters | Mfg: Metals | Process Refrigeration | Existing | end use | 71,635 | 13% | 1.37 | 3 | \$578 | 27% | 1.14 |
| FE-Penelec | Optimization of operating parameters | Mfg: Metals | Process Refrigeration | New | end use | 71,635 | 13% | 1.37 | 3 | \$578 | 27% | 1.14 |
| FE-Penelec | Synchronous Belts | Mfg: Metals | Process Refrigeration | Early | end use | 71,635 | 1.2% | 0.12 | 10 | \$106 | 30% | 2.16 |
| FE-Penelec | Synchronous Belts | Mfg: Metals | Process Refrigeration | New | end use | 71,635 | 1.2% | 0.12 | 10 | \$106 | 30% | 2.16 |
| FE-Penelec | Synchronous Belts | Mfg: Metals | Process Refrigeration | ROB | end use | 71,635 | 1.2% | 0.12 | 10 | \$106 | 30% | 2.16 |
| FE-Penelec | VFD on Cooling Tower Fan | Mfg: Metals | Process Refrigeration | Early | motor | 11,595 | 21% | 0.73 | 15 | \$535 | 20% | 2.39 |
| FE-Penelec | VFD on Cooling Tower Fan | Mfg: Metals | Process Refrigeration | New | motor | 11,595 | 22% | 0.73 | 15 | \$546 | 20% | 2.37 |
| FE-Penelec | VFD on Cooling Tower Fan | Mfg: Metals | Process Refrigeration | ROB | motor | 11,595 | 22% | 0.73 | 15 | \$546 | 20% | 2.37 |
| FE-Penelec | Facility Energy Management | Mfg: Metals | Pumps | Existing | end use | 2,550,866 | 1.9% | 6.11 | 2 | \$983 | 69% | 1.18 |
| FE-Penelec | Facility Energy Management | Mfg: Metals | Pumps | New | end use | 2,550,866 | 1.9% | 6.11 | 2 | \$983 | 69% | 1.17 |
| FE-Penelec | HE Motors | Mfg: Metals | Pumps | Early | end use | 2,550,866 | 2.0% | 6.79 | 15 | \$15,185 | 73% | 1.64 |
| FE-Penelec | HE Motors | Mfg: Metals | Pumps | New | end use | 2,550,866 | 2.0% | 6.79 | 15 | \$15,185 | 73% | 1.64 |
| FE-Penelec | HE Motors | Mfg: Metals | Pumps | ROB | end use | 2,550,866 | 2.0% | 6.79 | 15 | \$15,185 | 73% | 1.64 |
| FE-Penelec | Motor rewinds | Mfg: Metals | Pumps | Existing | end use | 2,550,866 | 0.6% | 1.97 | 9 | \$3,627 | 11% | 1.30 |
| FE-Penelec | Motor rewinds | Mfg: Metals | Pumps | New | end use | 2,550,866 | 0.6% | 1.97 | 9 | \$3,627 | 11% | 1.30 |
| FE-Penelec | Synchronous Belts | Mfg: Metals | Pumps | Early | end use | 2,550,866 | 1.2% | 3.87 | 10 | \$3,759 | 61% | 2.12 |
| FE-Penelec | Synchronous Belts | Mfg: Metals | Pumps | New | end use | 2,550,866 | 1.2% | 3.87 | 10 | \$3,759 | 61% | 2.12 |
| FE-Penelec | Synchronous Belts | Mfg: Metals | Pumps | ROB | end use | 2,550,866 | 1.2% | 3.87 | 10 | \$3,759 | 61% | 2.12 |
| FE-Penelec | Circulating Fans | Mfg: Other | Fans | Early | end use | 98,874 | 5.0% | 0.59 | 10 | \$602 | 68% | 2.23 |
| FE-Penelec | Circulating Fans | Mfg: Other | Fans | New | end use | 98,874 | 5.0% | 0.59 | 10 | \$602 | 68% | 2.23 |
| FE-Penelec | Circulating Fans | Mfg: Other | Fans | ROB | end use | 98,874 | 5.0% | 0.59 | 10 | \$602 | 68% | 2.23 |
| FE-Penelec | Facility Energy Management | Mfg: Other | Fans | Existing | end use | 98,874 | 1.8% | 0.22 | 2 | \$38 | 77% | 1.16 |
| FE-Penelec | Facility Energy Management | Mfg: Other | Fans | New | end use | 98,874 | 1.9% | 0.22 | 2 | \$38 | 77% | 1.16 |
| FE-Penelec | Fan Equipment Upgrade | Mfg: Other | Fans | Early | end use | 98,874 | 35% | 4.12 | 10 | \$2,966 | 68% | 2.74 |
| FE-Penelec | Fan Equipment Upgrade | Mfg: Other | Fans | New | end use | 98,874 | 35% | 4.12 | 10 | \$2,966 | 68% | 2.74 |
| FE-Penelec | Fan Equipment Upgrade | Mfg: Other | Fans | ROB | end use | 98,874 | 35% | 4.12 | 10 | \$2,966 | 68% | 2.74 |
| FE-Penelec | Fan System Optimization | Mfg: Other | Fans | Existing | end use | 98,874 | 7.3% | 0.86 | 10 | \$1,349 | 83% | 1.67 |
| FE-Penelec | Fan System Optimization | Mfg: Other | Fans | New | end use | 98,874 | 7.3% | 0.86 | 10 | \$1,349 | 83% | 1.67 |
| FE-Penelec | HE Motors | Mfg: Other | Fans | Early | end use | 98,874 | 2.0% | 0.24 | 15 | \$589 | 77% | 1.68 |
| FE-Penelec | HE Motors | Mfg: Other | Fans | New | end use | 98,874 | 2.0% | 0.24 | 15 | \$589 | 77% | 1.68 |
| FE-Penelec | HE Motors | Mfg: Other | Fans | ROB | end use | 98,874 | 2.0% | 0.24 | 15 | \$589 | 77% | 1.68 |
| FE-Penelec | Improved Controls - Fans | Mfg: Other | Fans | Existing | end use | 98,874 | 7.1% | 0.84 | 10 | \$383 | 88% | 3.42 |
| FE-Penelec | Improved Controls - Fans | Mfg: Other | Fans | New | end use | 98,874 | 7.1% | 0.84 | 10 | \$383 | 88% | 3.42 |
| FE-Penelec | Properly Sized Fans | Mfg: Other | Fans | Early | end use | 98,874 | 13% | 1.55 | 10 | \$2,025 | 41% | 1.89 |
| FE-Penelec | Properly Sized Fans | Mfg: Other | Fans | New | end use | 98,874 | 13% | 1.55 | 10 | \$2,025 | 41% | 1.89 |
| FE-Penelec | Properly Sized Fans | Mfg: Other | Fans | ROB | end use | 98,874 | 13% | 1.55 | 10 | \$2,025 | 41% | 1.89 |
| FE-Penelec | Synchronous Belts | Mfg: Other | Fans | Early | end use | 98,874 | 1.2% | 0.14 | 10 | \$146 | 41% | 2.17 |
| FE-Penelec | Synchronous Belts | Mfg: Other | Fans | New | end use | 98,874 | 1.2% | 0.14 | 10 | \$146 | 41% | 2.17 |
| FE-Penelec | Synchronous Belts | Mfg: Other | Fans | ROB | end use | 98,874 | 1.2% | 0.14 | 10 | \$146 | 41% | 2.17 |
| FE-Penelec | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Other | HVAC | Early | unit (ton) | 199,563 | 9.2% | 4.75 | 15 | \$36,369 | 28% | 0.34 |
| FE-Penelec | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Other | HVAC | New | unit (ton) | 199,563 | 4.1% | 2.13 | 15 | \$8,812 | 28% | 0.62 |
| FE-Penelec | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Other | HVAC | ROB | unit (ton) | 199,563 | 4.1% | 2.13 | 15 | \$8,812 | 28% | 0.62 |
| FE-Penelec | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Other | HVAC | Early | unit (ton) | 199,563 | 12% | 6.43 | 15 | \$42,875 | 28% | 0.39 |
| FE-Penelec | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Other | HVAC | New | unit (ton) | 199,563 | 7.7% | 3.98 | 15 | \$18,559 | 28% | 0.55 |
| FE-Penelec | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Other | HVAC | ROB | unit (ton) | 199,563 | 7.7% | 3.98 | 15 | \$18,559 | 28% | 0.55 |
| FE-Penelec | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Other | HVAC | Early | unit (ton) | 199,563 | 15% | 7.89 | 15 | \$49,382 | 29% | 0.42 |
| FE-Penelec | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Other | HVAC | New | unit (ton) | 199,563 | 11% | 5.60 | 15 | \$28,306 | 29% | 0.51 |
| FE-Penelec | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Other | HVAC | ROB | unit (ton) | 199,563 | 11% | 5.60 | 15 | \$28,306 | 29% | 0.51 |
| FE-Penelec | >760k min 10.2 EER Air Conditioner | Mfg: Other | HVAC | Early | unit (ton) | 199,563 | 2.1% | 1.10 | 15 | \$63,334 | 35% | 0.05 |
| FE-Penelec | >760k min 10.2 EER Air Conditioner | Mfg: Other | HVAC | New | unit (ton) | 199,563 | 2.8% | 1.46 | 15 | \$5,724 | 35% | 0.65 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | >760k min 10.2 EER Air Conditioner | Mfg: Other | HVAC | ROB | unit (ton) | 199,563 | 2.8% | 1.46 | 15 | \$5,724 | 35% | 0.65 |
| FE-Penelec | 135-240k min 12 EER Air Conditioner | Mfg: Other | HVAC | Early | unit (ton) | 199,563 | 10% | 5.42 | 15 | \$68,581 | 35% | 0.21 |
| FE-Penelec | 135-240k min 12 EER Air Conditioner | Mfg: Other | HVAC | New | unit (ton) | 199,563 | 5.8% | 2.99 | 15 | \$8,098 | 35% | 0.91 |
| FE-Penelec | 135-240k min 12 EER Air Conditioner | Mfg: Other | HVAC | ROB | unit (ton) | 199,563 | 5.8% | 2.99 | 15 | \$8,098 | 35% | 0.91 |
| FE-Penelec | 240k-760k min 11 EER Air Conditioner | Mfg: Other | HVAC | Early | unit (ton) | 199,563 | 5.2% | 2.70 | 15 | \$63,374 | 35% | 0.11 |
| FE-Penelec | 240k-760k min 11 EER Air Conditioner | Mfg: Other | HVAC | New | unit (ton) | 199,563 | 5.3% | 2.77 | 15 | \$6,790 | 35% | 0.99 |
| FE-Penelec | 240k-760k min 11 EER Air Conditioner | Mfg: Other | HVAC | ROB | unit (ton) | 199,563 | 5.3% | 2.77 | 15 | \$6,790 | 35% | 0.99 |
| FE-Penelec | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Other | HVAC | Early | unit (ton) | 199,563 | 9.7% | 5.02 | 15 | \$70,221 | 35% | 0.19 |
| FE-Penelec | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Other | HVAC | New | unit (ton) | 199,563 | 3.8% | 1.99 | 15 | \$10,019 | 35% | 0.51 |
| FE-Penelec | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Other | HVAC | ROB | unit (ton) | 199,563 | 3.8% | 1.99 | 15 | \$10,019 | 35% | 0.51 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Mfg: Other | HVAC | Existing | building | 209,522 | 5.9% | 3.11 | 15 | \$634,819 | 71% | 0.01 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Mfg: Other | HVAC | New | building | 209,522 | 3.7% | 1.95 | 15 | \$603,413 | 94% | 0.01 |
| FE-Penelec | Chiller Tuneup/Diagnostics | Mfg: Other | HVAC | Existing | building | 209,522 | 8.0% | 6.15 | 10 | \$535,004 | 59% | 0.02 |
| FE-Penelec | Chiller Tuneup/Diagnostics | Mfg: Other | HVAC | New | building | 209,522 | 8.0% | 6.16 | 10 | \$535,004 | 59% | 0.02 |
| FE-Penelec | Cooling Tower Optimization | Mfg: Other | HVAC | Existing | building | 209,522 | 20% | 15.00 | 10 | \$1,285 | 69% | 5.43 |
| FE-Penelec | Duct Insulation, Add R8 | Mfg: Other | HVAC | Existing | building | 209,522 | 1.5% | 0.67 | 15 | \$1,664 | 18% | 1.15 |
| FE-Penelec | Duct Insulation, Add R8 | Mfg: Other | HVAC | New | building | 209,522 | 1.5% | 0.67 | 15 | \$1,664 | 9% | 1.15 |
| FE-Penelec | Ductless Heat Pump | Mfg: Other | HVAC | Early | heat pump | 199,563 | 0.8% | 0.37 | 15 | \$15,777 | 83% | 0.07 |
| FE-Penelec | Ductless Heat Pump | Mfg: Other | HVAC | New | heat pump | 199,563 | 0.4% | 0.20 | 15 | \$4,582 | 83% | 0.13 |
| FE-Penelec | Ductless Heat Pump | Mfg: Other | HVAC | ROB | heat pump | 199,563 | 0.4% | 0.20 | 15 | \$4,582 | 83% | 0.13 |
| FE-Penelec | DX Coil Cleaning | Mfg: Other | HVAC | Existing | building | 209,522 | 13% | 9.61 | 1 | \$2,008 | 73% | 0.51 |
| FE-Penelec | DX Coil Cleaning | Mfg: Other | HVAC | New | building | 209,522 | 13% | 9.61 | 1 | \$2,008 | 73% | 0.51 |
| FE-Penelec | Efficient Unit Heating System | Mfg: Other | HVAC | Early | heater | 199,563 | 6.9% | 0.12 | 15 | \$10,773 | 83% | 0.64 |
| FE-Penelec | Efficient Unit Heating System | Mfg: Other | HVAC | New | heater | 199,563 | 4.0% | 0.07 | 15 | \$7,349 | 83% | 0.54 |
| FE-Penelec | Efficient Unit Heating System | Mfg: Other | HVAC | ROB | heater | 199,563 | 4.0% | 0.07 | 15 | \$7,349 | 83% | 0.54 |
| FE-Penelec | Ground Source Heat Pump (Closed Loop) | Mfg: Other | HVAC | Early | heat pump | 199,563 | 1.3% | 0.58 | 15 | \$32,760 | 19% | 0.05 |
| FE-Penelec | Ground Source Heat Pump (Closed Loop) | Mfg: Other | HVAC | New | heat pump | 199,563 | 1.0% | 0.46 | 15 | \$12,935 | 19% | 0.11 |
| FE-Penelec | Ground Source Heat Pump (Closed Loop) | Mfg: Other | HVAC | ROB | heat pump | 199,563 | 1.0% | 0.46 | 15 | \$12,935 | 19% | 0.11 |
| FE-Penelec | Ground Source Heat Pump (Open Loop) | Mfg: Other | HVAC | Early | heat pump | 199,563 | 1.3% | 0.58 | 15 | \$20,981 | 19% | 0.08 |
| FE-Penelec | Ground Source Heat Pump (Open Loop) | Mfg: Other | HVAC | New | heat pump | 199,563 | 1.0% | 0.46 | 15 | \$445 | 19% | 2.35 |
| FE-Penelec | Ground Source Heat Pump (Open Loop) | Mfg: Other | HVAC | ROB | heat pump | 199,563 | 1.0% | 0.46 | 15 | \$445 | 19% | 2.35 |
| FE-Penelec | HE Air Cooled Chiller, 100 Tons | Mfg: Other | HVAC | Early | unit (ton) | 199,563 | 1.5% | 0.66 | 15 | \$232,144 | 89% | 0.01 |
| FE-Penelec | HE Air Cooled Chiller, 100 Tons | Mfg: Other | HVAC | New | unit (ton) | 199,563 | 0.4% | 0.19 | 15 | \$33,819 | 89% | 0.02 |
| FE-Penelec | HE Air Cooled Chiller, 100 Tons | Mfg: Other | HVAC | ROB | unit (ton) | 199,563 | 0.4% | 0.19 | 15 | \$33,819 | 89% | 0.02 |
| FE-Penelec | HE Air Cooled Chiller, 150 Tons | Mfg: Other | HVAC | Early | unit (ton) | 199,563 | 1.4% | 0.65 | 15 | \$200,521 | 89% | 0.01 |
| FE-Penelec | HE Air Cooled Chiller, 150 Tons | Mfg: Other | HVAC | New | unit (ton) | 199,563 | 0.3% | 0.13 | 15 | \$16,608 | 89% | 0.02 |
| FE-Penelec | HE Air Cooled Chiller, 150 Tons | Mfg: Other | HVAC | ROB | unit (ton) | 199,563 | 0.3% | 0.13 | 15 | \$16,608 | 89% | 0.02 |
| FE-Penelec | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Other | HVAC | Early | heat pump | 199,563 | 1.4% | 0.61 | 12 | \$8,552 | 81% | 0.17 |
| FE-Penelec | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Other | HVAC | Early | heat pump | 199,563 | 1.1% | 0.50 | 12 | \$6,248 | 81% | 0.19 |
| FE-Penelec | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Other | HVAC | New | heat pump | 199,563 | 1.0% | 0.46 | 12 | \$3,818 | 81% | 0.28 |
| FE-Penelec | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Other | HVAC | New | heat pump | 199,563 | 0.8% | 0.34 | 12 | \$1,335 | 81% | 0.58 |
| FE-Penelec | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Other | HVAC | ROB | heat pump | 199,563 | 1.0% | 0.46 | 12 | \$3,818 | 81% | 0.28 |
| FE-Penelec | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Other | HVAC | ROB | heat pump | 199,563 | 0.8% | 0.34 | 12 | \$1,335 | 81% | 0.58 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Other | HVAC | Early | unit (ton) | 199,563 | 1.6% | 0.71 | 15 | \$18,419 | 89% | 0.12 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Other | HVAC | New | unit (ton) | 199,563 | 0.9% | 0.41 | 15 | \$6,126 | 89% | 0.20 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Other | HVAC | ROB | unit (ton) | 199,563 | 0.9% | 0.41 | 15 | \$6,126 | 89% | 0.20 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Other | HVAC | Early | unit (ton) | 199,563 | 1.4% | 0.63 | 15 | \$17,989 | 89% | 0.11 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Other | HVAC | New | unit (ton) | 199,563 | 1.0% | 0.44 | 15 | \$3,513 | 89% | 0.37 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Other | HVAC | ROB | unit (ton) | 199,563 | 1.4% | 0.63 | 15 | \$3,227 | 89% | 0.56 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Other | HVAC | Early | unit (ton) | 199,563 | 1.4% | 0.62 | 15 | \$21,291 | 89% | 0.09 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|------------|----------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Other | HVAC | New | unit (ton) | 199,563 | 0.9% | 0.40 | 15 | \$8,964 | 89% | 0.13 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Other | HVAC | ROB | unit (ton) | 199,563 | 1.4% | 0.62 | 15 | \$8,113 | 89% | 0.23 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Other | HVAC | Early | unit (ton) | 199,563 | 1.4% | 0.62 | 15 | \$20,509 | 89% | 0.09 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Other | HVAC | New | unit (ton) | 199,563 | 0.9% | 0.40 | 15 | \$7,792 | 89% | 0.15 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Other | HVAC | ROB | unit (ton) | 199,563 | 1.4% | 0.62 | 15 | \$7,052 | 89% | 0.26 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Other | HVAC | Early | unit (ton) | 199,563 | 1.8% | 0.81 | 15 | \$22,099 | 89% | 0.11 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Other | HVAC | New | unit (ton) | 199,563 | 0.5% | 0.25 | 15 | \$13,684 | 89% | 0.05 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Other | HVAC | ROB | unit (ton) | 199,563 | 1.8% | 0.81 | 15 | \$10,626 | 89% | 0.23 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Other | HVAC | Early | unit (ton) | 199,563 | 2.1% | 0.96 | 15 | \$20,326 | 89% | 0.14 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Other | HVAC | New | unit (ton) | 199,563 | 0.8% | 0.35 | 15 | \$8,156 | 89% | 0.13 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Other | HVAC | ROB | unit (ton) | 199,563 | 0.8% | 0.35 | 15 | \$8,156 | 89% | 0.13 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Other | HVAC | Early | unit (ton) | 199,563 | 2.4% | 1.08 | 15 | \$17,227 | 89% | 0.19 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Other | HVAC | New | unit (ton) | 199,563 | 0.9% | 0.40 | 15 | \$4,335 | 89% | 0.27 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Other | HVAC | ROB | unit (ton) | 199,563 | 2.4% | 1.08 | 15 | \$3,091 | 89% | 0.95 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Other | HVAC | Early | unit (ton) | 199,563 | 1.8% | 0.82 | 15 | \$17,054 | 89% | 0.14 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Other | HVAC | New | unit (ton) | 199,563 | 0.7% | 0.31 | 15 | \$4,776 | 89% | 0.19 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Other | HVAC | ROB | unit (ton) | 199,563 | 1.8% | 0.82 | 15 | \$3,784 | 89% | 0.61 |
| FE-Penelec | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Other | HVAC | Existing | building | 209,522 | 2.9% | 1.23 | 5 | \$2,223 | 55% | 0.61 |
| FE-Penelec | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Other | HVAC | New | building | 209,522 | 0.6% | 0.49 | 5 | \$1,334 | 51% | 0.29 |
| FE-Penelec | Improved Controls - HVAC | Mfg: Other | HVAC | Existing | end use | 209,522 | 21% | 6.28 | 10 | \$2,203 | 76% | 3.68 |
| FE-Penelec | Improved Controls - HVAC | Mfg: Other | HVAC | New | end use | 209,522 | 21% | 6.28 | 10 | \$2,203 | 76% | 3.68 |
| FE-Penelec | Outside Air Economizer | Mfg: Other | HVAC | Existing | building | 209,522 | 1.1% | 0.59 | 10 | \$769,824 | 82% | 0.00 |
| FE-Penelec | Outside Air Economizer | Mfg: Other | HVAC | New | building | 209,522 | 1.1% | 0.59 | 10 | \$769,824 | 82% | 0.00 |
| FE-Penelec | Recommissioning | Mfg: Other | HVAC | Existing | end use | 209,522 | 5.0% | 1.50 | 10 | \$287 | 88% | 4.54 |
| FE-Penelec | Recommissioning | Mfg: Other | HVAC | New | end use | 209,522 | 5.0% | 1.50 | 10 | \$287 | 88% | 4.54 |
| FE-Penelec | Room AC (with louvered sides) | Mfg: Other | HVAC | Early | unit (ton) | 199,563 | 7.7% | 3.47 | 9 | \$15,648 | 78% | 0.41 |
| FE-Penelec | Room AC (with louvered sides) | Mfg: Other | HVAC | New | unit (ton) | 199,563 | 2.6% | 1.16 | 9 | \$857 | 78% | 1.88 |
| FE-Penelec | Room AC (with louvered sides) | Mfg: Other | HVAC | ROB | unit (ton) | 199,563 | 2.6% | 1.16 | 9 | \$857 | 78% | 1.88 |
| FE-Penelec | Variable Refrigerant Flow Heat Pump | Mfg: Other | HVAC | New | measure | 199,563 | 0.1% | 0.05 | 13 | \$1,469 | 43% | 0.09 |
| FE-Penelec | Variable Refrigerant Flow Heat Pump | Mfg: Other | HVAC | ROB | measure | 199,563 | 0.1% | 0.05 | 13 | \$1,469 | 43% | 0.09 |
| FE-Penelec | VFD on Cooling Tower Fan | Mfg: Other | HVAC | Early | motor | 199,563 | 21% | 12.58 | 15 | \$9,215 | 15% | 2.54 |
| FE-Penelec | VFD on Cooling Tower Fan | Mfg: Other | HVAC | New | motor | 199,563 | 22% | 12.59 | 15 | \$9,391 | 15% | 2.52 |
| FE-Penelec | VFD on Cooling Tower Fan | Mfg: Other | HVAC | ROB | motor | 199,563 | 22% | 12.59 | 15 | \$9,391 | 15% | 2.52 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Mfg: Other | HVAC | Existing | building | 209,522 | 19% | 10.02 | 15 | \$149,047 | 26% | 0.18 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Mfg: Other | HVAC | New | building | 209,522 | 0.6% | 0.32 | 15 | \$114,326 | 94% | 0.01 |
| FE-Penelec | Water Source Heat Pump (4 ton) | Mfg: Other | HVAC | Early | heat pump | 199,563 | 1.5% | 0.69 | 15 | \$33,925 | 28% | 0.06 |
| FE-Penelec | Water Source Heat Pump (4 ton) | Mfg: Other | HVAC | New | heat pump | 199,563 | 1.1% | 0.51 | 15 | \$16,534 | 28% | 0.09 |
| FE-Penelec | Water Source Heat Pump (4 ton) | Mfg: Other | HVAC | ROB | heat pump | 199,563 | 1.1% | 0.51 | 15 | \$16,534 | 28% | 0.09 |
| FE-Penelec | Efficient Metal Halide (High Bay) | Mfg: Other | Lighting | Early | end use | 141,652 | 42% | 0.00 | 9 | \$22,135 | 53% | 0.76 |
| FE-Penelec | Efficient Metal Halide (High Bay) | Mfg: Other | Lighting | New | end use | 141,652 | 41% | 0.00 | 13 | \$591,227 | 61% | 0.05 |
| FE-Penelec | Efficient Metal Halide (High Bay) | Mfg: Other | Lighting | ROB | end use | 141,652 | 41% | 0.00 | 13 | \$451,848 | 61% | 0.06 |
| FE-Penelec | Induction (High Bay) | Mfg: Other | Lighting | Early | end use | 141,652 | 94% | 0.00 | 13 | \$65,861 | 95% | 0.82 |
| FE-Penelec | Induction (High Bay) | Mfg: Other | Lighting | New | end use | 141,652 | 94% | 0.00 | 13 | \$61,662 | 95% | 0.87 |
| FE-Penelec | Induction (High Bay) | Mfg: Other | Lighting | ROB | end use | 141,652 | 94% | 0.00 | 13 | \$46,865 | 95% | 1.10 |
| FE-Penelec | LED (High Bay) | Mfg: Other | Lighting | Early | end use | 141,652 | 69% | 0.00 | 14 | \$77,527 | 95% | 0.57 |
| FE-Penelec | LED (High Bay) | Mfg: Other | Lighting | New | end use | 141,652 | 55% | 0.00 | 14 | \$86,053 | 95% | 0.42 |
| FE-Penelec | LED (High Bay) | Mfg: Other | Lighting | ROB | end use | 141,652 | 59% | 0.00 | 14 | \$56,699 | 95% | 0.66 |
| FE-Penelec | Lighting Controls | Mfg: Other | Lighting | Existing | end use | 141,652 | 20% | 0.00 | 6 | \$531,035 | 16% | 0.01 |
| FE-Penelec | Lighting Controls | Mfg: Other | Lighting | New | end use | 141,652 | 12% | 0.00 | 10 | \$706,451 | 11% | 0.01 |
| FE-Penelec | Linear Fluorescent (High Bay) | Mfg: Other | Lighting | Early | end use | 141,652 | 17% | 0.00 | 14 | \$16,208 | 98% | 0.66 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---------------------------------------|------------|----------|----------|---------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Linear Fluorescent (High Bay) | Mfg: Other | Lighting | New | end use | 141,652 | 13% | 0.00 | 14 | \$5,140 | 91% | 1.39 |
| FE-Penelec | Linear Fluorescent (High Bay) | Mfg: Other | Lighting | ROB | end use | 141,652 | 13% | 0.00 | 14 | \$3,291 | 91% | 2.01 |
| FE-Penelec | Metal Halide (High Bay) | Mfg: Other | Lighting | Early | end use | 141,652 | 62% | 0.00 | 13 | \$97,376 | 38% | 0.39 |
| FE-Penelec | Metal Halide (High Bay) | Mfg: Other | Lighting | New | end use | 141,652 | 73% | 0.00 | 13 | \$23,281 | 38% | 1.56 |
| FE-Penelec | Metal Halide (High Bay) | Mfg: Other | Lighting | ROB | end use | 141,652 | 73% | 0.00 | 13 | \$17,694 | 38% | 1.91 |
| FE-Penelec | Screw Base CFL | Mfg: Other | Lighting | Early | end use | 141,652 | 80% | 0.00 | 7 | \$38,484 | 17% | 0.66 |
| FE-Penelec | Screw Base CFL | Mfg: Other | Lighting | New | end use | 141,652 | 73% | 0.00 | 9 | \$31,451 | 18% | 0.90 |
| FE-Penelec | Screw Base CFL | Mfg: Other | Lighting | ROB | end use | 141,652 | 73% | 0.00 | 9 | \$26,324 | 17% | 1.03 |
| FE-Penelec | Screw Base LED | Mfg: Other | Lighting | Early | end use | 141,652 | 76% | 0.00 | 9 | \$23,618 | 21% | 1.21 |
| FE-Penelec | Screw Base LED | Mfg: Other | Lighting | New | end use | 141,652 | 77% | 0.00 | 9 | \$13,157 | 20% | 1.84 |
| FE-Penelec | Screw Base LED | Mfg: Other | Lighting | ROB | end use | 141,652 | 77% | 0.00 | 9 | \$10,444 | 21% | 2.11 |
| FE-Penelec | T8 High Performance Linear Florescent | Mfg: Other | Lighting | Early | end use | 141,652 | 36% | 0.00 | 14 | \$13,555 | 71% | 1.48 |
| FE-Penelec | T8 High Performance Linear Florescent | Mfg: Other | Lighting | New | end use | 141,652 | 26% | 0.00 | 14 | \$4,850 | 76% | 2.49 |
| FE-Penelec | T8 High Performance Linear Florescent | Mfg: Other | Lighting | ROB | end use | 141,652 | 26% | 0.00 | 14 | \$3,686 | 76% | 2.94 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Other | Motors | Early | end use | 31,216 | 0.9% | 0.04 | 15 | \$477 | 81% | 0.35 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Other | Motors | New | end use | 31,216 | 0.9% | 0.04 | 15 | \$477 | 81% | 0.35 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Other | Motors | ROB | end use | 31,216 | 0.9% | 0.04 | 15 | \$477 | 81% | 0.35 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Other | Motors | Early | end use | 31,216 | 0.8% | 0.03 | 15 | \$290 | 73% | 0.46 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Other | Motors | New | end use | 31,216 | 0.8% | 0.03 | 15 | \$290 | 73% | 0.46 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Other | Motors | ROB | end use | 31,216 | 0.7% | 0.03 | 15 | \$290 | 73% | 0.46 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Other | Motors | Early | end use | 31,216 | 0.5% | 0.02 | 15 | \$111 | 81% | 0.71 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Other | Motors | New | end use | 31,216 | 0.5% | 0.02 | 15 | \$111 | 81% | 0.70 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Other | Motors | ROB | end use | 31,216 | 0.5% | 0.02 | 15 | \$111 | 81% | 0.72 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Other | Motors | Early | end use | 31,216 | 0.4% | 0.02 | 15 | \$37 | 73% | 1.67 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Other | Motors | New | end use | 31,216 | 0.4% | 0.02 | 15 | \$37 | 73% | 1.63 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Other | Motors | ROB | end use | 31,216 | 0.4% | 0.02 | 15 | \$37 | 73% | 1.62 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Other | Motors | Early | end use | 31,216 | 0.9% | 0.04 | 15 | \$55 | 47% | 2.29 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Other | Motors | New | end use | 31,216 | 0.9% | 0.04 | 15 | \$55 | 47% | 2.30 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Other | Motors | ROB | end use | 31,216 | 0.9% | 0.04 | 15 | \$55 | 47% | 2.31 |
| FE-Penelec | Facility Energy Management | Mfg: Other | Motors | Existing | end use | 31,216 | 1.9% | 0.08 | 2 | \$12 | 77% | 1.15 |
| FE-Penelec | Facility Energy Management | Mfg: Other | Motors | New | end use | 31,216 | 1.9% | 0.08 | 2 | \$12 | 77% | 1.15 |
| FE-Penelec | HE Motors | Mfg: Other | Motors | Early | end use | 31,216 | 2.0% | 0.09 | 15 | \$186 | 38% | 1.66 |
| FE-Penelec | HE Motors | Mfg: Other | Motors | New | end use | 31,216 | 2.0% | 0.09 | 15 | \$186 | 38% | 1.66 |
| FE-Penelec | HE Motors | Mfg: Other | Motors | ROB | end use | 31,216 | 2.0% | 0.09 | 15 | \$186 | 38% | 1.66 |
| FE-Penelec | High-Efficiency Ventilation System | Mfg: Other | Motors | Early | end use | 31,216 | 5.7% | 0.25 | 10 | \$1,951 | 73% | 0.36 |
| FE-Penelec | High-Efficiency Ventilation System | Mfg: Other | Motors | New | end use | 31,216 | 5.7% | 0.25 | 10 | \$1,951 | 73% | 0.36 |
| FE-Penelec | High-Efficiency Ventilation System | Mfg: Other | Motors | ROB | end use | 31,216 | 5.7% | 0.25 | 10 | \$1,951 | 73% | 0.36 |
| FE-Penelec | Improved Controls - Motors | Mfg: Other | Motors | Existing | end use | 31,216 | 4.0% | 0.18 | 10 | \$136 | 73% | 2.35 |
| FE-Penelec | Improved Controls - Motors | Mfg: Other | Motors | New | end use | 31,216 | 4.0% | 0.18 | 10 | \$136 | 73% | 2.35 |
| FE-Penelec | Motor Management Plan | Mfg: Other | Motors | Existing | end use | 31,216 | 2.9% | 0.13 | 10 | \$64 | 73% | 3.01 |
| FE-Penelec | Motor Management Plan | Mfg: Other | Motors | New | end use | 31,216 | 2.9% | 0.13 | 10 | \$64 | 73% | 3.00 |
| FE-Penelec | Motors Other | Mfg: Other | Motors | Existing | end use | 31,216 | 1.1% | 0.05 | 15 | \$6.2 | 83% | 6.77 |
| FE-Penelec | Motors Other | Mfg: Other | Motors | New | end use | 31,216 | 1.1% | 0.05 | 15 | \$6.2 | 83% | 6.77 |
| FE-Penelec | Motors: Rewind 101-200 HP | Mfg: Other | Motors | Existing | end use | 31,216 | 0.6% | 0.02 | 10 | \$39 | 27% | 1.42 |
| FE-Penelec | Motors: Rewind 101-200 HP | Mfg: Other | Motors | New | end use | 31,216 | 0.6% | 0.02 | 10 | \$39 | 27% | 1.43 |
| FE-Penelec | Motors: Rewind 201-500 HP | Mfg: Other | Motors | Existing | end use | 31,216 | 0.6% | 0.02 | 8 | \$25 | 27% | 1.66 |
| FE-Penelec | Motors: Rewind 201-500 HP | Mfg: Other | Motors | New | end use | 31,216 | 0.5% | 0.02 | 8 | \$25 | 27% | 1.65 |
| FE-Penelec | Motors: Rewind 20-50 HP | Mfg: Other | Motors | Existing | end use | 31,216 | 1.0% | 0.05 | 11 | \$116 | 42% | 1.08 |
| FE-Penelec | Motors: Rewind 20-50 HP | Mfg: Other | Motors | New | end use | 31,216 | 1.0% | 0.05 | 11 | \$116 | 42% | 1.08 |
| FE-Penelec | Motors: Rewind 500+ HP | Mfg: Other | Motors | Existing | end use | 31,216 | 0.6% | 0.02 | 8 | \$18 | 11% | 2.08 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|--|------------|------------------------|----------|---------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Motors: Rewind 500+ HP | Mfg: Other | Motors | New | end use | 31,216 | 0.6% | 0.02 | 8 | \$18 | 11% | 2.07 |
| FE-Penelec | Motors: Rewind 51-100 HP | Mfg: Other | Motors | Existing | end use | 31,216 | 0.6% | 0.03 | 9 | \$57 | 42% | 1.06 |
| FE-Penelec | Motors: Rewind 51-100 HP | Mfg: Other | Motors | New | end use | 31,216 | 0.6% | 0.03 | 9 | \$57 | 42% | 1.04 |
| FE-Penelec | Switch from Belt drive to Direct Drive | Mfg: Other | Motors | Early | end use | 31,216 | 7.5% | 0.33 | 12 | \$501 | 30% | 1.72 |
| FE-Penelec | Switch from Belt drive to Direct Drive | Mfg: Other | Motors | New | end use | 31,216 | 7.5% | 0.33 | 12 | \$501 | 30% | 1.72 |
| FE-Penelec | Switch from Belt drive to Direct Drive | Mfg: Other | Motors | ROB | end use | 31,216 | 7.5% | 0.33 | 12 | \$501 | 30% | 1.72 |
| FE-Penelec | Synchronous Belts | Mfg: Other | Motors | Early | end use | 31,216 | 1.2% | 0.05 | 10 | \$46 | 30% | 2.15 |
| FE-Penelec | Synchronous Belts | Mfg: Other | Motors | New | end use | 31,216 | 1.2% | 0.05 | 10 | \$46 | 30% | 2.15 |
| FE-Penelec | Synchronous Belts | Mfg: Other | Motors | ROB | end use | 31,216 | 1.2% | 0.05 | 10 | \$46 | 30% | 2.15 |
| FE-Penelec | Bldg Improvements | Mfg: Other | Other | Existing | end use | 43,047 | 16% | 0.83 | 15 | \$939 | 72% | 2.85 |
| FE-Penelec | Bldg Improvements | Mfg: Other | Other | New | end use | 43,047 | 16% | 0.83 | 15 | \$939 | 72% | 2.85 |
| FE-Penelec | Energy Project Management | Mfg: Other | Other | Existing | end use | 43,047 | 29% | 1.49 | 11 | \$1,537 | 63% | 2.28 |
| FE-Penelec | Energy Project Management | Mfg: Other | Other | New | end use | 43,047 | 29% | 1.49 | 11 | \$1,537 | 63% | 2.28 |
| FE-Penelec | Facility Energy Management | Mfg: Other | Other | Existing | end use | 43,047 | 1.9% | 0.09 | 2 | \$17 | 76% | 1.12 |
| FE-Penelec | Facility Energy Management | Mfg: Other | Other | New | end use | 43,047 | 1.9% | 0.09 | 2 | \$17 | 76% | 1.11 |
| FE-Penelec | Integrated Plant Energy Management | Mfg: Other | Other | Existing | end use | 43,047 | 50% | 2.56 | 11 | \$4,243 | 48% | 1.65 |
| FE-Penelec | Integrated Plant Energy Management | Mfg: Other | Other | New | end use | 43,047 | 50% | 2.56 | 11 | \$4,243 | 48% | 1.65 |
| FE-Penelec | Plant Energy Management | Mfg: Other | Other | Existing | end use | 43,047 | 12% | 0.61 | 10 | \$108 | 55% | 4.51 |
| FE-Penelec | Plant Energy Management | Mfg: Other | Other | New | end use | 43,047 | 12% | 0.61 | 10 | \$108 | 55% | 4.51 |
| FE-Penelec | Transformers | Mfg: Other | Other | Early | end use | 43,047 | 1.6% | 0.08 | 15 | \$138 | 34% | 2.12 |
| FE-Penelec | Transformers | Mfg: Other | Other | New | end use | 43,047 | 1.6% | 0.08 | 15 | \$138 | 34% | 2.13 |
| FE-Penelec | Transformers | Mfg: Other | Other | ROB | end use | 43,047 | 1.6% | 0.08 | 15 | \$138 | 34% | 2.13 |
| FE-Penelec | Air Compressor Demand Reduction | Mfg: Other | Process Air Compressor | Existing | end use | 1,766 | 26% | 0.06 | 10 | \$26 | 52% | 3.24 |
| FE-Penelec | Air Compressor Demand Reduction | Mfg: Other | Process Air Compressor | New | end use | 1,766 | 26% | 0.06 | 10 | \$26 | 52% | 3.24 |
| FE-Penelec | Air Compressor Equipment | Mfg: Other | Process Air Compressor | Early | end use | 1,766 | 39% | 0.09 | 10 | \$32 | 73% | 3.56 |
| FE-Penelec | Air Compressor Equipment | Mfg: Other | Process Air Compressor | New | end use | 1,766 | 39% | 0.09 | 10 | \$32 | 73% | 3.56 |
| FE-Penelec | Air Compressor Equipment | Mfg: Other | Process Air Compressor | ROB | end use | 1,766 | 39% | 0.09 | 10 | \$32 | 73% | 3.56 |
| FE-Penelec | Air Compressor Optimization | Mfg: Other | Process Air Compressor | Existing | end use | 1,766 | 39% | 0.09 | 10 | \$77 | 55% | 2.30 |
| FE-Penelec | Air Compressor Optimization | Mfg: Other | Process Air Compressor | New | end use | 1,766 | 39% | 0.09 | 10 | \$77 | 55% | 2.30 |
| FE-Penelec | Facility Energy Management | Mfg: Other | Process Air Compressor | Existing | end use | 1,766 | 1.9% | 0.00 | 2 | \$0.7 | 62% | 1.13 |
| FE-Penelec | Facility Energy Management | Mfg: Other | Process Air Compressor | New | end use | 1,766 | 1.9% | 0.00 | 2 | \$0.7 | 62% | 1.13 |
| FE-Penelec | HE Compressor motors | Mfg: Other | Process Air Compressor | Early | end use | 1,766 | 1.1% | 0.00 | 15 | \$6.7 | 73% | 1.43 |
| FE-Penelec | HE Compressor motors | Mfg: Other | Process Air Compressor | New | end use | 1,766 | 1.1% | 0.00 | 15 | \$6.7 | 73% | 1.44 |
| FE-Penelec | HE Compressor motors | Mfg: Other | Process Air Compressor | ROB | end use | 1,766 | 1.1% | 0.00 | 15 | \$6.7 | 73% | 1.45 |
| FE-Penelec | Improved Controls - Air Compressor | Mfg: Other | Process Air Compressor | Existing | end use | 1,766 | 41% | 0.09 | 10 | \$32 | 25% | 3.64 |
| FE-Penelec | Improved Controls - Air Compressor | Mfg: Other | Process Air Compressor | New | end use | 1,766 | 41% | 0.09 | 10 | \$32 | 25% | 3.64 |
| FE-Penelec | Low Pressure-drop Filters | Mfg: Other | Process Air Compressor | Existing | end use | 1,766 | 1.9% | 0.00 | 10 | \$20 | 61% | 0.61 |
| FE-Penelec | Low Pressure-drop Filters | Mfg: Other | Process Air Compressor | New | end use | 1,766 | 1.8% | 0.00 | 10 | \$20 | 61% | 0.61 |
| FE-Penelec | Outside Air Intake | Mfg: Other | Process Air Compressor | Existing | end use | 1,766 | 1.4% | 0.00 | 10 | \$12 | 48% | 0.79 |
| FE-Penelec | Outside Air Intake | Mfg: Other | Process Air Compressor | New | end use | 1,766 | 1.4% | 0.00 | 10 | \$12 | 48% | 0.79 |
| FE-Penelec | Receiver Capacity Addition | Mfg: Other | Process Air Compressor | Existing | end use | 1,766 | 5.9% | 0.01 | 10 | \$33 | 36% | 1.09 |
| FE-Penelec | Receiver Capacity Addition | Mfg: Other | Process Air Compressor | New | end use | 1,766 | 5.9% | 0.01 | 10 | \$33 | 36% | 1.09 |
| FE-Penelec | Refrigerated Cycling Dryers | Mfg: Other | Process Air Compressor | Early | end use | 1,766 | 1.7% | 0.00 | 10 | \$4.1 | 21% | 2.00 |
| FE-Penelec | Refrigerated Cycling Dryers | Mfg: Other | Process Air Compressor | New | end use | 1,766 | 1.7% | 0.00 | 10 | \$4.1 | 21% | 2.01 |
| FE-Penelec | Refrigerated Cycling Dryers | Mfg: Other | Process Air Compressor | ROB | end use | 1,766 | 1.7% | 0.00 | 10 | \$4.1 | 21% | 2.01 |
| FE-Penelec | VFD Controlled Compressor | Mfg: Other | Process Air Compressor | Early | end use | 1,766 | 24% | 0.05 | 10 | \$174 | 28% | 0.86 |
| FE-Penelec | VFD Controlled Compressor | Mfg: Other | Process Air Compressor | New | end use | 1,766 | 24% | 0.05 | 10 | \$174 | 28% | 0.86 |
| FE-Penelec | VFD Controlled Compressor | Mfg: Other | Process Air Compressor | ROB | end use | 1,766 | 24% | 0.05 | 10 | \$174 | 28% | 0.86 |
| FE-Penelec | Zero Loss Condensate Drain | Mfg: Other | Process Air Compressor | Early | end use | 1,766 | 1.8% | 0.00 | 10 | \$10 | 36% | 1.10 |
| FE-Penelec | Zero Loss Condensate Drain | Mfg: Other | Process Air Compressor | New | end use | 1,766 | 1.8% | 0.00 | 10 | \$10 | 36% | 1.10 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---------------------------------------|------------|------------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Zero Loss Condensate Drain | Mfg: Other | Process Air Compressor | ROB | end use | 1,766 | 1.9% | 0.00 | 10 | \$10 | 36% | 1.10 |
| FE-Penelec | Cooling Tower Optimization | Mfg: Other | Process Cooling | Existing | building | 27,006 | 20% | 2.24 | 10 | \$166 | 15% | 5.41 |
| FE-Penelec | Equipment: Chillers | Mfg: Other | Process Cooling | Early | end use | 25,722 | 18% | 0.96 | 15 | \$1,207 | 46% | 1.89 |
| FE-Penelec | Equipment: Chillers | Mfg: Other | Process Cooling | New | end use | 25,722 | 18% | 0.96 | 15 | \$1,207 | 46% | 1.89 |
| FE-Penelec | Equipment: Chillers | Mfg: Other | Process Cooling | ROB | end use | 25,722 | 18% | 0.96 | 15 | \$1,207 | 46% | 1.89 |
| FE-Penelec | Facility Energy Management | Mfg: Other | Process Cooling | Existing | end use | 25,722 | 1.9% | 0.10 | 2 | \$9.9 | 59% | 1.20 |
| FE-Penelec | Facility Energy Management | Mfg: Other | Process Cooling | New | end use | 25,722 | 1.9% | 0.10 | 2 | \$9.9 | 59% | 1.20 |
| FE-Penelec | Improved Controls - Process Cooling | Mfg: Other | Process Cooling | Existing | end use | 25,722 | 6.0% | 0.32 | 10 | \$1,358 | 56% | 0.47 |
| FE-Penelec | Improved Controls - Process Cooling | Mfg: Other | Process Cooling | New | end use | 25,722 | 6.0% | 0.32 | 10 | \$1,358 | 56% | 0.47 |
| FE-Penelec | VFD on Cooling Tower Fan | Mfg: Other | Process Cooling | Early | motor | 27,006 | 21% | 1.70 | 15 | \$1,247 | 20% | 2.39 |
| FE-Penelec | VFD on Cooling Tower Fan | Mfg: Other | Process Cooling | New | motor | 27,006 | 22% | 1.70 | 15 | \$1,271 | 20% | 2.37 |
| FE-Penelec | VFD on Cooling Tower Fan | Mfg: Other | Process Cooling | ROB | motor | 27,006 | 22% | 1.70 | 15 | \$1,271 | 20% | 2.37 |
| FE-Penelec | Improved Controls - Process Heating | Mfg: Other | Process Heating | Existing | end use | 88,059 | 17% | 2.07 | 10 | \$1,012 | 77% | 3.00 |
| FE-Penelec | Improved Controls - Process Heating | Mfg: Other | Process Heating | New | end use | 88,059 | 17% | 2.07 | 10 | \$1,012 | 77% | 3.00 |
| FE-Penelec | Process Heat O&M | Mfg: Other | Process Heating | Existing | end use | 88,059 | 16% | 1.96 | 2 | \$611 | 77% | 0.90 |
| FE-Penelec | Process Heat O&M | Mfg: Other | Process Heating | New | end use | 88,059 | 16% | 1.96 | 2 | \$611 | 77% | 0.90 |
| FE-Penelec | Facility Energy Management | Mfg: Other | Process Other | Existing | end use | 16,558 | 2.0% | 0.04 | 2 | \$6.4 | 73% | 1.12 |
| FE-Penelec | Facility Energy Management | Mfg: Other | Process Other | New | end use | 16,558 | 1.9% | 0.04 | 2 | \$6.4 | 73% | 1.12 |
| FE-Penelec | Adjustable speed drive on compressors | Mfg: Other | Process Refrigeration | Early | end use | 13,213 | 12% | 0.23 | 10 | \$244 | 64% | 1.86 |
| FE-Penelec | Adjustable speed drive on compressors | Mfg: Other | Process Refrigeration | New | end use | 13,213 | 12% | 0.23 | 10 | \$244 | 64% | 1.86 |
| FE-Penelec | Adjustable speed drive on compressors | Mfg: Other | Process Refrigeration | ROB | end use | 13,213 | 12% | 0.23 | 10 | \$244 | 64% | 1.86 |
| FE-Penelec | Cooling Tower Optimization | Mfg: Other | Process Refrigeration | Existing | building | 13,873 | 20% | 1.15 | 10 | \$85 | 15% | 5.41 |
| FE-Penelec | Optimization of operating parameters | Mfg: Other | Process Refrigeration | Existing | end use | 13,213 | 13% | 0.25 | 3 | \$107 | 57% | 1.14 |
| FE-Penelec | Optimization of operating parameters | Mfg: Other | Process Refrigeration | New | end use | 13,213 | 13% | 0.25 | 3 | \$107 | 57% | 1.14 |
| FE-Penelec | Synchronous Belts | Mfg: Other | Process Refrigeration | Early | end use | 13,213 | 1.2% | 0.02 | 10 | \$19 | 64% | 2.16 |
| FE-Penelec | Synchronous Belts | Mfg: Other | Process Refrigeration | New | end use | 13,213 | 1.2% | 0.02 | 10 | \$19 | 64% | 2.16 |
| FE-Penelec | Synchronous Belts | Mfg: Other | Process Refrigeration | ROB | end use | 13,213 | 1.2% | 0.02 | 10 | \$19 | 64% | 2.16 |
| FE-Penelec | VFD on Cooling Tower Fan | Mfg: Other | Process Refrigeration | Early | motor | 13,873 | 21% | 0.87 | 15 | \$641 | 20% | 2.39 |
| FE-Penelec | VFD on Cooling Tower Fan | Mfg: Other | Process Refrigeration | New | motor | 13,873 | 22% | 0.87 | 15 | \$653 | 20% | 2.37 |
| FE-Penelec | VFD on Cooling Tower Fan | Mfg: Other | Process Refrigeration | ROB | motor | 13,873 | 22% | 0.87 | 15 | \$653 | 20% | 2.37 |
| FE-Penelec | Facility Energy Management | Mfg: Other | Pumps | Existing | end use | 174,983 | 1.9% | 0.42 | 2 | \$67 | 73% | 1.17 |
| FE-Penelec | Facility Energy Management | Mfg: Other | Pumps | New | end use | 174,983 | 1.9% | 0.42 | 2 | \$67 | 73% | 1.17 |
| FE-Penelec | HE Motors | Mfg: Other | Pumps | Early | end use | 174,983 | 2.0% | 0.47 | 15 | \$1,042 | 77% | 1.64 |
| FE-Penelec | HE Motors | Mfg: Other | Pumps | New | end use | 174,983 | 2.0% | 0.47 | 15 | \$1,042 | 77% | 1.64 |
| FE-Penelec | HE Motors | Mfg: Other | Pumps | ROB | end use | 174,983 | 2.0% | 0.47 | 15 | \$1,042 | 77% | 1.64 |
| FE-Penelec | Motor rewinds | Mfg: Other | Pumps | Existing | end use | 174,983 | 0.6% | 0.14 | 9 | \$249 | 12% | 1.30 |
| FE-Penelec | Motor rewinds | Mfg: Other | Pumps | New | end use | 174,983 | 0.6% | 0.14 | 9 | \$249 | 12% | 1.29 |
| FE-Penelec | Pump Equipment Upgrade | Mfg: Other | Pumps | Early | end use | 174,983 | 20% | 4.55 | 12 | \$4,375 | 86% | 2.46 |
| FE-Penelec | Pump Equipment Upgrade | Mfg: Other | Pumps | New | end use | 174,983 | 20% | 4.55 | 12 | \$4,375 | 86% | 2.46 |
| FE-Penelec | Pump Equipment Upgrade | Mfg: Other | Pumps | ROB | end use | 174,983 | 20% | 4.55 | 12 | \$4,375 | 86% | 2.46 |
| FE-Penelec | Pump System Optimization | Mfg: Other | Pumps | Existing | end use | 174,983 | 8.7% | 1.98 | 12 | \$3,204 | 40% | 1.78 |
| FE-Penelec | Pump System Optimization | Mfg: Other | Pumps | New | end use | 174,983 | 8.7% | 1.98 | 12 | \$3,204 | 40% | 1.78 |
| FE-Penelec | Synchronous Belts | Mfg: Other | Pumps | Early | end use | 174,983 | 1.2% | 0.27 | 10 | \$258 | 64% | 2.12 |
| FE-Penelec | Synchronous Belts | Mfg: Other | Pumps | New | end use | 174,983 | 1.2% | 0.27 | 10 | \$258 | 64% | 2.12 |
| FE-Penelec | Synchronous Belts | Mfg: Other | Pumps | ROB | end use | 174,983 | 1.2% | 0.27 | 10 | \$258 | 64% | 2.12 |
| FE-Penelec | Circulating Fans | Mfg: Paper | Fans | Early | end use | 1,226,772 | 5.0% | 7.30 | 10 | \$7,468 | 68% | 2.23 |
| FE-Penelec | Circulating Fans | Mfg: Paper | Fans | New | end use | 1,226,772 | 5.0% | 7.30 | 10 | \$7,468 | 68% | 2.23 |
| FE-Penelec | Circulating Fans | Mfg: Paper | Fans | ROB | end use | 1,226,772 | 5.0% | 7.30 | 10 | \$7,468 | 68% | 2.22 |
| FE-Penelec | Efficient Centrifugal Fan | Mfg: Paper | Fans | Early | end use | 1,226,772 | 20% | 29.21 | 10 | \$44,610 | 68% | 1.69 |
| FE-Penelec | Efficient Centrifugal Fan | Mfg: Paper | Fans | New | end use | 1,226,772 | 20% | 29.21 | 10 | \$44,610 | 68% | 1.69 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|--|------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Efficient Centrifugal Fan | Mfg: Paper | Fans | ROB | end use | 1,226,772 | 20% | 29.21 | 10 | \$44,610 | 68% | 1.70 |
| FE-Penelec | Facility Energy Management | Mfg: Paper | Fans | Existing | end use | 1,226,772 | 1.9% | 2.69 | 2 | \$473 | 77% | 1.16 |
| FE-Penelec | Facility Energy Management | Mfg: Paper | Fans | New | end use | 1,226,772 | 1.8% | 2.69 | 2 | \$473 | 77% | 1.16 |
| FE-Penelec | Fan Equipment Upgrade | Mfg: Paper | Fans | Early | end use | 1,226,772 | 35% | 51.11 | 10 | \$36,803 | 68% | 2.74 |
| FE-Penelec | Fan Equipment Upgrade | Mfg: Paper | Fans | New | end use | 1,226,772 | 35% | 51.11 | 10 | \$36,803 | 68% | 2.74 |
| FE-Penelec | Fan Equipment Upgrade | Mfg: Paper | Fans | ROB | end use | 1,226,772 | 35% | 51.11 | 10 | \$36,803 | 68% | 2.74 |
| FE-Penelec | Fan System Optimization | Mfg: Paper | Fans | Existing | end use | 1,226,772 | 7.3% | 10.71 | 10 | \$16,733 | 83% | 1.67 |
| FE-Penelec | Fan System Optimization | Mfg: Paper | Fans | New | end use | 1,226,772 | 7.3% | 10.71 | 10 | \$16,733 | 83% | 1.67 |
| FE-Penelec | HE Motors | Mfg: Paper | Fans | Early | end use | 1,226,772 | 2.0% | 2.99 | 15 | \$7,303 | 77% | 1.68 |
| FE-Penelec | HE Motors | Mfg: Paper | Fans | New | end use | 1,226,772 | 2.0% | 2.99 | 15 | \$7,303 | 77% | 1.68 |
| FE-Penelec | HE Motors | Mfg: Paper | Fans | ROB | end use | 1,226,772 | 2.0% | 2.99 | 15 | \$7,303 | 77% | 1.68 |
| FE-Penelec | Improved Controls - Fans | Mfg: Paper | Fans | Existing | end use | 1,226,772 | 7.1% | 10.37 | 10 | \$4,756 | 88% | 3.42 |
| FE-Penelec | Improved Controls - Fans | Mfg: Paper | Fans | New | end use | 1,226,772 | 7.1% | 10.37 | 10 | \$4,756 | 88% | 3.42 |
| FE-Penelec | Paper: Premium Fan | Mfg: Paper | Fans | Early | end use | 1,226,772 | 20% | 29.21 | 10 | \$44,610 | 61% | 1.70 |
| FE-Penelec | Paper: Premium Fan | Mfg: Paper | Fans | New | end use | 1,226,772 | 20% | 29.21 | 10 | \$44,610 | 61% | 1.69 |
| FE-Penelec | Paper: Premium Fan | Mfg: Paper | Fans | ROB | end use | 1,226,772 | 20% | 29.21 | 10 | \$44,610 | 61% | 1.69 |
| FE-Penelec | Properly Sized Fans | Mfg: Paper | Fans | Early | end use | 1,226,772 | 13% | 19.21 | 10 | \$25,126 | 41% | 1.89 |
| FE-Penelec | Properly Sized Fans | Mfg: Paper | Fans | New | end use | 1,226,772 | 13% | 19.21 | 10 | \$25,126 | 41% | 1.89 |
| FE-Penelec | Properly Sized Fans | Mfg: Paper | Fans | ROB | end use | 1,226,772 | 13% | 19.21 | 10 | \$25,126 | 41% | 1.89 |
| FE-Penelec | Synchronous Belts | Mfg: Paper | Fans | Early | end use | 1,226,772 | 1.2% | 1.70 | 10 | \$1,808 | 41% | 2.17 |
| FE-Penelec | Synchronous Belts | Mfg: Paper | Fans | New | end use | 1,226,772 | 1.2% | 1.70 | 10 | \$1,808 | 41% | 2.17 |
| FE-Penelec | Synchronous Belts | Mfg: Paper | Fans | ROB | end use | 1,226,772 | 1.2% | 1.70 | 10 | \$1,808 | 41% | 2.17 |
| FE-Penelec | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Paper | HVAC | Early | unit (ton) | 252,358 | 9.2% | 6.01 | 15 | \$45,991 | 28% | 0.34 |
| FE-Penelec | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Paper | HVAC | New | unit (ton) | 252,358 | 4.1% | 2.70 | 15 | \$11,143 | 28% | 0.62 |
| FE-Penelec | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Paper | HVAC | ROB | unit (ton) | 252,358 | 4.1% | 2.70 | 15 | \$11,143 | 28% | 0.62 |
| FE-Penelec | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Paper | HVAC | Early | unit (ton) | 252,358 | 12% | 8.12 | 15 | \$54,218 | 28% | 0.39 |
| FE-Penelec | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Paper | HVAC | New | unit (ton) | 252,358 | 7.7% | 5.04 | 15 | \$23,469 | 28% | 0.55 |
| FE-Penelec | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Paper | HVAC | ROB | unit (ton) | 252,358 | 7.7% | 5.04 | 15 | \$23,469 | 28% | 0.55 |
| FE-Penelec | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Paper | HVAC | Early | unit (ton) | 252,358 | 15% | 9.98 | 15 | \$62,446 | 29% | 0.42 |
| FE-Penelec | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Paper | HVAC | New | unit (ton) | 252,358 | 11% | 7.08 | 15 | \$35,795 | 29% | 0.51 |
| FE-Penelec | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Paper | HVAC | ROB | unit (ton) | 252,358 | 11% | 7.08 | 15 | \$35,795 | 29% | 0.51 |
| FE-Penelec | >760k min 10.2 EER Air Conditioner | Mfg: Paper | HVAC | Early | unit (ton) | 252,358 | 2.1% | 1.39 | 15 | \$80,090 | 35% | 0.05 |
| FE-Penelec | >760k min 10.2 EER Air Conditioner | Mfg: Paper | HVAC | New | unit (ton) | 252,358 | 2.8% | 1.85 | 15 | \$7,239 | 35% | 0.65 |
| FE-Penelec | >760k min 10.2 EER Air Conditioner | Mfg: Paper | HVAC | ROB | unit (ton) | 252,358 | 2.8% | 1.85 | 15 | \$7,239 | 35% | 0.65 |
| FE-Penelec | 135-240k min 12 EER Air Conditioner | Mfg: Paper | HVAC | Early | unit (ton) | 252,358 | 10% | 6.85 | 15 | \$86,725 | 35% | 0.21 |
| FE-Penelec | 135-240k min 12 EER Air Conditioner | Mfg: Paper | HVAC | New | unit (ton) | 252,358 | 5.8% | 3.78 | 15 | \$10,240 | 35% | 0.91 |
| FE-Penelec | 135-240k min 12 EER Air Conditioner | Mfg: Paper | HVAC | ROB | unit (ton) | 252,358 | 5.8% | 3.78 | 15 | \$10,240 | 35% | 0.91 |
| FE-Penelec | 240k-760k min 11 EER Air Conditioner | Mfg: Paper | HVAC | Early | unit (ton) | 252,358 | 5.2% | 3.41 | 15 | \$80,140 | 35% | 0.11 |
| FE-Penelec | 240k-760k min 11 EER Air Conditioner | Mfg: Paper | HVAC | New | unit (ton) | 252,358 | 5.3% | 3.50 | 15 | \$8,586 | 35% | 0.99 |
| FE-Penelec | 240k-760k min 11 EER Air Conditioner | Mfg: Paper | HVAC | ROB | unit (ton) | 252,358 | 5.3% | 3.50 | 15 | \$8,586 | 35% | 0.99 |
| FE-Penelec | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Paper | HVAC | Early | unit (ton) | 252,358 | 9.7% | 6.35 | 15 | \$88,799 | 35% | 0.19 |
| FE-Penelec | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Paper | HVAC | New | unit (ton) | 252,358 | 3.8% | 2.52 | 15 | \$12,669 | 35% | 0.51 |
| FE-Penelec | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Paper | HVAC | ROB | unit (ton) | 252,358 | 3.8% | 2.52 | 15 | \$12,669 | 35% | 0.51 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Mfg: Paper | HVAC | Existing | building | 630,140 | 5.9% | 9.36 | 15 | \$1,909,223 | 71% | 0.01 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Mfg: Paper | HVAC | New | building | 630,140 | 3.7% | 5.87 | 15 | \$1,814,770 | 94% | 0.01 |
| FE-Penelec | Chiller Tuneup/Diagnostics | Mfg: Paper | HVAC | Existing | building | 630,140 | 8.0% | 18.48 | 10 | \$1,609,028 | 59% | 0.02 |
| FE-Penelec | Chiller Tuneup/Diagnostics | Mfg: Paper | HVAC | New | building | 630,140 | 8.0% | 18.52 | 10 | \$1,609,028 | 59% | 0.02 |
| FE-Penelec | Cooling Tower Optimization | Mfg: Paper | HVAC | Existing | building | 630,140 | 20% | 45.11 | 10 | \$3,864 | 69% | 5.43 |
| FE-Penelec | Duct Insulation, Add R8 | Mfg: Paper | HVAC | Existing | building | 630,140 | 1.5% | 2.02 | 15 | \$5,006 | 18% | 1.15 |
| FE-Penelec | Duct Insulation, Add R8 | Mfg: Paper | HVAC | New | building | 630,140 | 1.5% | 2.02 | 15 | \$5,006 | 9% | 1.15 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Ductless Heat Pump | Mfg: Paper | HVAC | Early | heat pump | 252,358 | 0.8% | 0.47 | 15 | \$19,951 | 83% | 0.07 |
| FE-Penelec | Ductless Heat Pump | Mfg: Paper | HVAC | New | heat pump | 252,358 | 0.4% | 0.25 | 15 | \$5,794 | 83% | 0.13 |
| FE-Penelec | Ductless Heat Pump | Mfg: Paper | HVAC | ROB | heat pump | 252,358 | 0.4% | 0.25 | 15 | \$5,794 | 83% | 0.13 |
| FE-Penelec | DX Coil Cleaning | Mfg: Paper | HVAC | Existing | building | 630,140 | 13% | 28.91 | 1 | \$6,040 | 73% | 0.51 |
| FE-Penelec | DX Coil Cleaning | Mfg: Paper | HVAC | New | building | 630,140 | 13% | 28.90 | 1 | \$6,040 | 73% | 0.51 |
| FE-Penelec | Efficient Unit Heating System | Mfg: Paper | HVAC | Early | heater | 252,358 | 6.9% | 0.15 | 15 | \$13,624 | 83% | 0.64 |
| FE-Penelec | Efficient Unit Heating System | Mfg: Paper | HVAC | New | heater | 252,358 | 4.0% | 0.08 | 15 | \$9,293 | 83% | 0.54 |
| FE-Penelec | Efficient Unit Heating System | Mfg: Paper | HVAC | ROB | heater | 252,358 | 4.0% | 0.08 | 15 | \$9,293 | 83% | 0.54 |
| FE-Penelec | Ground Source Heat Pump (Closed Loop) | Mfg: Paper | HVAC | Early | heat pump | 252,358 | 1.3% | 0.73 | 15 | \$41,427 | 19% | 0.05 |
| FE-Penelec | Ground Source Heat Pump (Closed Loop) | Mfg: Paper | HVAC | New | heat pump | 252,358 | 1.0% | 0.58 | 15 | \$16,357 | 19% | 0.11 |
| FE-Penelec | Ground Source Heat Pump (Closed Loop) | Mfg: Paper | HVAC | ROB | heat pump | 252,358 | 1.0% | 0.58 | 15 | \$16,357 | 19% | 0.11 |
| FE-Penelec | Ground Source Heat Pump (Open Loop) | Mfg: Paper | HVAC | Early | heat pump | 252,358 | 1.3% | 0.73 | 15 | \$26,532 | 19% | 0.08 |
| FE-Penelec | Ground Source Heat Pump (Open Loop) | Mfg: Paper | HVAC | New | heat pump | 252,358 | 1.0% | 0.58 | 15 | \$562 | 19% | 2.35 |
| FE-Penelec | Ground Source Heat Pump (Open Loop) | Mfg: Paper | HVAC | ROB | heat pump | 252,358 | 1.0% | 0.58 | 15 | \$562 | 19% | 2.35 |
| FE-Penelec | HE Air Cooled Chiller, 100 Tons | Mfg: Paper | HVAC | Early | unit (ton) | 252,358 | 1.5% | 0.83 | 15 | \$293,559 | 89% | 0.01 |
| FE-Penelec | HE Air Cooled Chiller, 100 Tons | Mfg: Paper | HVAC | New | unit (ton) | 252,358 | 0.4% | 0.23 | 15 | \$42,766 | 89% | 0.02 |
| FE-Penelec | HE Air Cooled Chiller, 100 Tons | Mfg: Paper | HVAC | ROB | unit (ton) | 252,358 | 0.4% | 0.23 | 15 | \$42,766 | 89% | 0.02 |
| FE-Penelec | HE Air Cooled Chiller, 150 Tons | Mfg: Paper | HVAC | Early | unit (ton) | 252,358 | 1.4% | 0.82 | 15 | \$253,569 | 89% | 0.01 |
| FE-Penelec | HE Air Cooled Chiller, 150 Tons | Mfg: Paper | HVAC | New | unit (ton) | 252,358 | 0.3% | 0.17 | 15 | \$21,002 | 89% | 0.02 |
| FE-Penelec | HE Air Cooled Chiller, 150 Tons | Mfg: Paper | HVAC | ROB | unit (ton) | 252,358 | 0.3% | 0.17 | 15 | \$21,002 | 89% | 0.02 |
| FE-Penelec | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Paper | HVAC | Early | heat pump | 252,358 | 1.4% | 0.77 | 12 | \$10,814 | 81% | 0.17 |
| FE-Penelec | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Paper | HVAC | Early | heat pump | 252,358 | 1.1% | 0.64 | 12 | \$7,901 | 81% | 0.19 |
| FE-Penelec | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Paper | HVAC | New | heat pump | 252,358 | 1.0% | 0.58 | 12 | \$4,828 | 81% | 0.28 |
| FE-Penelec | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Paper | HVAC | New | heat pump | 252,358 | 0.8% | 0.43 | 12 | \$1,688 | 81% | 0.58 |
| FE-Penelec | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Paper | HVAC | ROB | heat pump | 252,358 | 1.0% | 0.58 | 12 | \$4,828 | 81% | 0.28 |
| FE-Penelec | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Paper | HVAC | ROB | heat pump | 252,358 | 0.8% | 0.43 | 12 | \$1,688 | 81% | 0.58 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Paper | HVAC | Early | unit (ton) | 252,358 | 1.6% | 0.90 | 15 | \$23,292 | 89% | 0.12 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Paper | HVAC | New | unit (ton) | 252,358 | 0.9% | 0.52 | 15 | \$7,747 | 89% | 0.20 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Paper | HVAC | ROB | unit (ton) | 252,358 | 0.9% | 0.52 | 15 | \$7,747 | 89% | 0.20 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Paper | HVAC | Early | unit (ton) | 252,358 | 1.4% | 0.80 | 15 | \$22,748 | 89% | 0.11 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Paper | HVAC | New | unit (ton) | 252,358 | 1.0% | 0.56 | 15 | \$4,442 | 89% | 0.37 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Paper | HVAC | ROB | unit (ton) | 252,358 | 1.4% | 0.80 | 15 | \$4,081 | 89% | 0.56 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Paper | HVAC | Early | unit (ton) | 252,358 | 1.4% | 0.79 | 15 | \$26,924 | 89% | 0.09 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Paper | HVAC | New | unit (ton) | 252,358 | 0.9% | 0.50 | 15 | \$11,336 | 89% | 0.13 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Paper | HVAC | ROB | unit (ton) | 252,358 | 1.4% | 0.79 | 15 | \$10,260 | 89% | 0.23 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Paper | HVAC | Early | unit (ton) | 252,358 | 1.4% | 0.79 | 15 | \$25,935 | 89% | 0.09 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Paper | HVAC | New | unit (ton) | 252,358 | 0.9% | 0.50 | 15 | \$9,854 | 89% | 0.15 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Paper | HVAC | ROB | unit (ton) | 252,358 | 1.4% | 0.79 | 15 | \$8,918 | 89% | 0.26 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Paper | HVAC | Early | unit (ton) | 252,358 | 1.8% | 1.02 | 15 | \$27,946 | 89% | 0.11 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Paper | HVAC | New | unit (ton) | 252,358 | 0.5% | 0.31 | 15 | \$17,304 | 89% | 0.05 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Paper | HVAC | ROB | unit (ton) | 252,358 | 1.8% | 1.02 | 15 | \$13,437 | 89% | 0.23 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Paper | HVAC | Early | unit (ton) | 252,358 | 2.1% | 1.21 | 15 | \$25,704 | 89% | 0.14 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Paper | HVAC | New | unit (ton) | 252,358 | 0.8% | 0.44 | 15 | \$10,314 | 89% | 0.13 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Paper | HVAC | ROB | unit (ton) | 252,358 | 0.8% | 0.44 | 15 | \$10,314 | 89% | 0.13 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Paper | HVAC | Early | unit (ton) | 252,358 | 2.4% | 1.37 | 15 | \$21,785 | 89% | 0.19 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Paper | HVAC | New | unit (ton) | 252,358 | 0.9% | 0.51 | 15 | \$5,482 | 89% | 0.27 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Paper | HVAC | ROB | unit (ton) | 252,358 | 2.4% | 1.37 | 15 | \$3,908 | 89% | 0.95 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Paper | HVAC | Early | unit (ton) | 252,358 | 1.8% | 1.03 | 15 | \$21,566 | 89% | 0.14 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Paper | HVAC | New | unit (ton) | 252,358 | 0.7% | 0.39 | 15 | \$6,039 | 89% | 0.19 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Paper | HVAC | ROB | unit (ton) | 252,358 | 1.8% | 1.03 | 15 | \$4,784 | 89% | 0.61 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|------------|----------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Paper | HVAC | Existing | building | 630,140 | 2.9% | 3.71 | 5 | \$6,685 | 55% | 0.61 |
| FE-Penelec | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Paper | HVAC | New | building | 630,140 | 0.6% | 1.47 | 5 | \$4,011 | 51% | 0.29 |
| FE-Penelec | Improved Controls - HVAC | Mfg: Paper | HVAC | Existing | end use | 630,140 | 21% | 18.90 | 10 | \$6,625 | 76% | 3.68 |
| FE-Penelec | Improved Controls - HVAC | Mfg: Paper | HVAC | New | end use | 630,140 | 21% | 18.90 | 10 | \$6,625 | 76% | 3.68 |
| FE-Penelec | Outside Air Economizer | Mfg: Paper | HVAC | Existing | building | 630,140 | 1.1% | 1.77 | 10 | \$2,315,251 | 82% | 0.00 |
| FE-Penelec | Outside Air Economizer | Mfg: Paper | HVAC | New | building | 630,140 | 1.1% | 1.77 | 10 | \$2,315,251 | 82% | 0.00 |
| FE-Penelec | Recommissioning | Mfg: Paper | HVAC | Existing | end use | 630,140 | 5.0% | 4.52 | 10 | \$864 | 88% | 4.54 |
| FE-Penelec | Recommissioning | Mfg: Paper | HVAC | New | end use | 630,140 | 5.0% | 4.52 | 10 | \$864 | 88% | 4.54 |
| FE-Penelec | Room AC (with louvered sides) | Mfg: Paper | HVAC | Early | unit (ton) | 252,358 | 7.7% | 4.38 | 9 | \$19,788 | 78% | 0.41 |
| FE-Penelec | Room AC (with louvered sides) | Mfg: Paper | HVAC | New | unit (ton) | 252,358 | 2.6% | 1.46 | 9 | \$1,083 | 78% | 1.88 |
| FE-Penelec | Room AC (with louvered sides) | Mfg: Paper | HVAC | ROB | unit (ton) | 252,358 | 2.6% | 1.46 | 9 | \$1,083 | 78% | 1.88 |
| FE-Penelec | Variable Refrigerant Flow Heat Pump | Mfg: Paper | HVAC | New | measure | 252,358 | 0.1% | 0.07 | 13 | \$1,858 | 43% | 0.09 |
| FE-Penelec | Variable Refrigerant Flow Heat Pump | Mfg: Paper | HVAC | ROB | measure | 252,358 | 0.1% | 0.07 | 13 | \$1,858 | 43% | 0.09 |
| FE-Penelec | VFD on Cooling Tower Fan | Mfg: Paper | HVAC | Early | motor | 252,358 | 21% | 15.91 | 15 | \$11,653 | 15% | 2.54 |
| FE-Penelec | VFD on Cooling Tower Fan | Mfg: Paper | HVAC | New | motor | 252,358 | 22% | 15.91 | 15 | \$11,875 | 15% | 2.52 |
| FE-Penelec | VFD on Cooling Tower Fan | Mfg: Paper | HVAC | ROB | motor | 252,358 | 22% | 15.91 | 15 | \$11,875 | 15% | 2.52 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Mfg: Paper | HVAC | Existing | building | 630,140 | 19% | 30.13 | 15 | \$448,259 | 26% | 0.18 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Mfg: Paper | HVAC | New | building | 630,140 | 0.6% | 0.96 | 15 | \$343,836 | 94% | 0.01 |
| FE-Penelec | Water Source Heat Pump (4 ton) | Mfg: Paper | HVAC | Early | heat pump | 252,358 | 1.5% | 0.87 | 15 | \$42,900 | 28% | 0.06 |
| FE-Penelec | Water Source Heat Pump (4 ton) | Mfg: Paper | HVAC | New | heat pump | 252,358 | 1.1% | 0.64 | 15 | \$20,908 | 28% | 0.09 |
| FE-Penelec | Water Source Heat Pump (4 ton) | Mfg: Paper | HVAC | ROB | heat pump | 252,358 | 1.1% | 0.64 | 15 | \$20,908 | 28% | 0.09 |
| FE-Penelec | Efficient Metal Halide (High Bay) | Mfg: Paper | Lighting | Early | end use | 256,292 | 42% | 0.00 | 9 | \$40,049 | 53% | 0.76 |
| FE-Penelec | Efficient Metal Halide (High Bay) | Mfg: Paper | Lighting | New | end use | 256,292 | 41% | 0.00 | 13 | \$1,069,713 | 61% | 0.05 |
| FE-Penelec | Efficient Metal Halide (High Bay) | Mfg: Paper | Lighting | ROB | end use | 256,292 | 41% | 0.00 | 13 | \$817,534 | 61% | 0.06 |
| FE-Penelec | Induction (High Bay) | Mfg: Paper | Lighting | Early | end use | 256,292 | 94% | 0.00 | 13 | \$119,162 | 95% | 0.82 |
| FE-Penelec | Induction (High Bay) | Mfg: Paper | Lighting | New | end use | 256,292 | 94% | 0.00 | 13 | \$111,565 | 95% | 0.87 |
| FE-Penelec | Induction (High Bay) | Mfg: Paper | Lighting | ROB | end use | 256,292 | 94% | 0.00 | 13 | \$84,793 | 95% | 1.10 |
| FE-Penelec | LED (High Bay) | Mfg: Paper | Lighting | Early | end use | 256,292 | 69% | 0.00 | 14 | \$140,271 | 95% | 0.57 |
| FE-Penelec | LED (High Bay) | Mfg: Paper | Lighting | New | end use | 256,292 | 55% | 0.00 | 14 | \$155,697 | 95% | 0.42 |
| FE-Penelec | LED (High Bay) | Mfg: Paper | Lighting | ROB | end use | 256,292 | 59% | 0.00 | 14 | \$102,586 | 95% | 0.66 |
| FE-Penelec | Lighting Controls | Mfg: Paper | Lighting | Existing | end use | 256,292 | 20% | 0.00 | 6 | \$960,808 | 16% | 0.01 |
| FE-Penelec | Lighting Controls | Mfg: Paper | Lighting | New | end use | 256,292 | 12% | 0.00 | 10 | \$1,278,189 | 11% | 0.01 |
| FE-Penelec | Linear Fluorescent (High Bay) | Mfg: Paper | Lighting | Early | end use | 256,292 | 17% | 0.00 | 14 | \$29,325 | 98% | 0.66 |
| FE-Penelec | Linear Fluorescent (High Bay) | Mfg: Paper | Lighting | New | end use | 256,292 | 13% | 0.00 | 14 | \$9,300 | 91% | 1.39 |
| FE-Penelec | Linear Fluorescent (High Bay) | Mfg: Paper | Lighting | ROB | end use | 256,292 | 13% | 0.00 | 14 | \$5,954 | 91% | 2.01 |
| FE-Penelec | Metal Halide (High Bay) | Mfg: Paper | Lighting | Early | end use | 256,292 | 62% | 0.00 | 13 | \$176,184 | 38% | 0.39 |
| FE-Penelec | Metal Halide (High Bay) | Mfg: Paper | Lighting | New | end use | 256,292 | 73% | 0.00 | 13 | \$42,123 | 38% | 1.56 |
| FE-Penelec | Metal Halide (High Bay) | Mfg: Paper | Lighting | ROB | end use | 256,292 | 73% | 0.00 | 13 | \$32,014 | 38% | 1.91 |
| FE-Penelec | Screw Base CFL | Mfg: Paper | Lighting | Early | end use | 256,292 | 80% | 0.00 | 7 | \$69,629 | 17% | 0.66 |
| FE-Penelec | Screw Base CFL | Mfg: Paper | Lighting | New | end use | 256,292 | 73% | 0.00 | 9 | \$56,904 | 18% | 0.90 |
| FE-Penelec | Screw Base CFL | Mfg: Paper | Lighting | ROB | end use | 256,292 | 73% | 0.00 | 9 | \$47,628 | 17% | 1.03 |
| FE-Penelec | Screw Base LED | Mfg: Paper | Lighting | Early | end use | 256,292 | 76% | 0.00 | 9 | \$42,732 | 21% | 1.21 |
| FE-Penelec | Screw Base LED | Mfg: Paper | Lighting | New | end use | 256,292 | 77% | 0.00 | 9 | \$23,804 | 20% | 1.84 |
| FE-Penelec | Screw Base LED | Mfg: Paper | Lighting | ROB | end use | 256,292 | 77% | 0.00 | 9 | \$18,897 | 21% | 2.11 |
| FE-Penelec | T8 High Performance Linear Florescent | Mfg: Paper | Lighting | Early | end use | 256,292 | 36% | 0.00 | 14 | \$24,525 | 71% | 1.48 |
| FE-Penelec | T8 High Performance Linear Florescent | Mfg: Paper | Lighting | New | end use | 256,292 | 26% | 0.00 | 14 | \$8,774 | 76% | 2.49 |
| FE-Penelec | T8 High Performance Linear Florescent | Mfg: Paper | Lighting | ROB | end use | 256,292 | 26% | 0.00 | 14 | \$6,669 | 76% | 2.94 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Paper | Motors | Early | end use | 387,310 | 0.9% | 0.50 | 15 | \$5,917 | 81% | 0.34 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Paper | Motors | New | end use | 387,310 | 0.9% | 0.50 | 15 | \$5,917 | 81% | 0.35 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Paper | Motors | ROB | end use | 387,310 | 0.9% | 0.50 | 15 | \$5,917 | 81% | 0.34 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---------------------------------------|------------|---------|----------|---------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Paper | Motors | Early | end use | 387,310 | 0.8% | 0.41 | 15 | \$3,593 | 73% | 0.46 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Paper | Motors | New | end use | 387,310 | 0.8% | 0.41 | 15 | \$3,593 | 73% | 0.46 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Paper | Motors | ROB | end use | 387,310 | 0.8% | 0.41 | 15 | \$3,593 | 73% | 0.47 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Paper | Motors | Early | end use | 387,310 | 0.5% | 0.25 | 15 | \$1,377 | 81% | 0.70 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Paper | Motors | New | end use | 387,310 | 0.5% | 0.25 | 15 | \$1,377 | 81% | 0.71 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Paper | Motors | ROB | end use | 387,310 | 0.5% | 0.25 | 15 | \$1,377 | 81% | 0.70 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Paper | Motors | Early | end use | 387,310 | 0.4% | 0.22 | 15 | \$454 | 73% | 1.62 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Paper | Motors | New | end use | 387,310 | 0.4% | 0.22 | 15 | \$454 | 73% | 1.65 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Paper | Motors | ROB | end use | 387,310 | 0.4% | 0.22 | 15 | \$454 | 73% | 1.68 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Paper | Motors | Early | end use | 387,310 | 0.9% | 0.51 | 15 | \$681 | 47% | 2.32 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Paper | Motors | New | end use | 387,310 | 0.9% | 0.51 | 15 | \$681 | 47% | 2.29 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Paper | Motors | ROB | end use | 387,310 | 0.9% | 0.51 | 15 | \$681 | 47% | 2.31 |
| FE-Penelec | Facility Energy Management | Mfg: Paper | Motors | Existing | end use | 387,310 | 1.8% | 1.02 | 2 | \$149 | 77% | 1.14 |
| FE-Penelec | Facility Energy Management | Mfg: Paper | Motors | New | end use | 387,310 | 1.9% | 1.02 | 2 | \$149 | 77% | 1.15 |
| FE-Penelec | HE Motors | Mfg: Paper | Motors | Early | end use | 387,310 | 2.0% | 1.13 | 15 | \$2,306 | 38% | 1.66 |
| FE-Penelec | HE Motors | Mfg: Paper | Motors | New | end use | 387,310 | 2.0% | 1.13 | 15 | \$2,306 | 38% | 1.66 |
| FE-Penelec | HE Motors | Mfg: Paper | Motors | ROB | end use | 387,310 | 2.0% | 1.13 | 15 | \$2,306 | 38% | 1.66 |
| FE-Penelec | High-Efficiency Ventilation System | Mfg: Paper | Motors | Early | end use | 387,310 | 5.7% | 3.13 | 10 | \$24,204 | 73% | 0.36 |
| FE-Penelec | High-Efficiency Ventilation System | Mfg: Paper | Motors | New | end use | 387,310 | 5.7% | 3.13 | 10 | \$24,204 | 73% | 0.36 |
| FE-Penelec | High-Efficiency Ventilation System | Mfg: Paper | Motors | ROB | end use | 387,310 | 5.7% | 3.13 | 10 | \$24,204 | 73% | 0.36 |
| FE-Penelec | Improved Controls - Motors | Mfg: Paper | Motors | Existing | end use | 387,310 | 4.0% | 2.19 | 10 | \$1,683 | 73% | 2.35 |
| FE-Penelec | Improved Controls - Motors | Mfg: Paper | Motors | New | end use | 387,310 | 4.0% | 2.19 | 10 | \$1,683 | 73% | 2.35 |
| FE-Penelec | Material Handling | Mfg: Paper | Motors | Early | end use | 387,310 | 18% | 10.19 | 10 | \$18,722 | 77% | 1.27 |
| FE-Penelec | Material Handling | Mfg: Paper | Motors | New | end use | 387,310 | 18% | 10.19 | 10 | \$18,722 | 77% | 1.27 |
| FE-Penelec | Material Handling | Mfg: Paper | Motors | ROB | end use | 387,310 | 18% | 10.19 | 10 | \$18,722 | 77% | 1.27 |
| FE-Penelec | Material Handling VFD | Mfg: Paper | Motors | Early | end use | 387,310 | 16% | 8.92 | 10 | \$12,949 | 77% | 1.52 |
| FE-Penelec | Material Handling VFD | Mfg: Paper | Motors | New | end use | 387,310 | 16% | 8.92 | 10 | \$12,949 | 77% | 1.52 |
| FE-Penelec | Material Handling VFD | Mfg: Paper | Motors | ROB | end use | 387,310 | 16% | 8.92 | 10 | \$12,949 | 77% | 1.52 |
| FE-Penelec | Motor Management Plan | Mfg: Paper | Motors | Existing | end use | 387,310 | 2.9% | 1.60 | 10 | \$790 | 73% | 3.00 |
| FE-Penelec | Motor Management Plan | Mfg: Paper | Motors | New | end use | 387,310 | 2.9% | 1.60 | 10 | \$790 | 73% | 3.01 |
| FE-Penelec | Motors Other | Mfg: Paper | Motors | Existing | end use | 387,310 | 1.1% | 0.61 | 15 | \$77 | 83% | 6.77 |
| FE-Penelec | Motors Other | Mfg: Paper | Motors | New | end use | 387,310 | 1.1% | 0.61 | 15 | \$77 | 83% | 6.77 |
| FE-Penelec | Motors: Rewind 101-200 HP | Mfg: Paper | Motors | Existing | end use | 387,310 | 0.6% | 0.31 | 10 | \$489 | 27% | 1.43 |
| FE-Penelec | Motors: Rewind 101-200 HP | Mfg: Paper | Motors | New | end use | 387,310 | 0.6% | 0.31 | 10 | \$489 | 27% | 1.42 |
| FE-Penelec | Motors: Rewind 201-500 HP | Mfg: Paper | Motors | Existing | end use | 387,310 | 0.5% | 0.30 | 8 | \$308 | 27% | 1.65 |
| FE-Penelec | Motors: Rewind 201-500 HP | Mfg: Paper | Motors | New | end use | 387,310 | 0.6% | 0.30 | 8 | \$308 | 27% | 1.67 |
| FE-Penelec | Motors: Rewind 20-50 HP | Mfg: Paper | Motors | Existing | end use | 387,310 | 1.0% | 0.57 | 11 | \$1,438 | 42% | 1.07 |
| FE-Penelec | Motors: Rewind 20-50 HP | Mfg: Paper | Motors | New | end use | 387,310 | 1.0% | 0.57 | 11 | \$1,438 | 42% | 1.07 |
| FE-Penelec | Motors: Rewind 500+ HP | Mfg: Paper | Motors | Existing | end use | 387,310 | 0.6% | 0.31 | 8 | \$220 | 11% | 2.09 |
| FE-Penelec | Motors: Rewind 500+ HP | Mfg: Paper | Motors | New | end use | 387,310 | 0.6% | 0.31 | 8 | \$220 | 11% | 2.07 |
| FE-Penelec | Motors: Rewind 51-100 HP | Mfg: Paper | Motors | Existing | end use | 387,310 | 0.6% | 0.33 | 9 | \$710 | 42% | 1.05 |
| FE-Penelec | Motors: Rewind 51-100 HP | Mfg: Paper | Motors | New | end use | 387,310 | 0.6% | 0.33 | 9 | \$710 | 42% | 1.05 |
| FE-Penelec | Paper: Large Material Handling | Mfg: Paper | Motors | Early | end use | 387,310 | 9.7% | 5.39 | 10 | \$29,013 | 64% | 0.50 |
| FE-Penelec | Paper: Large Material Handling | Mfg: Paper | Motors | New | end use | 387,310 | 9.7% | 5.39 | 10 | \$29,013 | 64% | 0.50 |
| FE-Penelec | Paper: Large Material Handling | Mfg: Paper | Motors | ROB | end use | 387,310 | 9.7% | 5.39 | 10 | \$29,013 | 64% | 0.50 |
| FE-Penelec | Paper: Material Handling | Mfg: Paper | Motors | Early | end use | 387,310 | 13% | 7.26 | 10 | \$32,640 | 64% | 0.59 |
| FE-Penelec | Paper: Material Handling | Mfg: Paper | Motors | New | end use | 387,310 | 13% | 7.26 | 10 | \$32,640 | 64% | 0.59 |
| FE-Penelec | Paper: Material Handling | Mfg: Paper | Motors | ROB | end use | 387,310 | 13% | 7.26 | 10 | \$32,640 | 64% | 0.59 |
| FE-Penelec | Paper: Premium Control Large Material | Mfg: Paper | Motors | Existing | end use | 387,310 | 19% | 10.37 | 10 | \$31,914 | 69% | 0.83 |
| FE-Penelec | Paper: Premium Control Large Material | Mfg: Paper | Motors | New | end use | 387,310 | 19% | 10.37 | 10 | \$31,914 | 69% | 0.83 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|--|------------|------------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Switch from Belt drive to Direct Drive | Mfg: Paper | Motors | Early | end use | 387,310 | 7.5% | 4.15 | 12 | \$6,214 | 30% | 1.72 |
| FE-Penelec | Switch from Belt drive to Direct Drive | Mfg: Paper | Motors | New | end use | 387,310 | 7.5% | 4.15 | 12 | \$6,214 | 30% | 1.72 |
| FE-Penelec | Switch from Belt drive to Direct Drive | Mfg: Paper | Motors | ROB | end use | 387,310 | 7.5% | 4.15 | 12 | \$6,214 | 30% | 1.72 |
| FE-Penelec | Synchronous Belts | Mfg: Paper | Motors | Early | end use | 387,310 | 1.2% | 0.64 | 10 | \$571 | 30% | 2.15 |
| FE-Penelec | Synchronous Belts | Mfg: Paper | Motors | New | end use | 387,310 | 1.2% | 0.64 | 10 | \$571 | 30% | 2.15 |
| FE-Penelec | Synchronous Belts | Mfg: Paper | Motors | ROB | end use | 387,310 | 1.2% | 0.64 | 10 | \$571 | 30% | 2.15 |
| FE-Penelec | Bldg Improvements | Mfg: Paper | Other | Existing | end use | 71,225 | 16% | 1.37 | 15 | \$1,553 | 72% | 2.85 |
| FE-Penelec | Bldg Improvements | Mfg: Paper | Other | New | end use | 71,225 | 16% | 1.37 | 15 | \$1,553 | 72% | 2.85 |
| FE-Penelec | Energy Project Management | Mfg: Paper | Other | Existing | end use | 71,225 | 29% | 2.46 | 11 | \$2,542 | 63% | 2.28 |
| FE-Penelec | Energy Project Management | Mfg: Paper | Other | New | end use | 71,225 | 29% | 2.46 | 11 | \$2,542 | 63% | 2.28 |
| FE-Penelec | Facility Energy Management | Mfg: Paper | Other | Existing | end use | 71,225 | 1.9% | 0.16 | 2 | \$27 | 76% | 1.11 |
| FE-Penelec | Facility Energy Management | Mfg: Paper | Other | New | end use | 71,225 | 1.8% | 0.16 | 2 | \$27 | 76% | 1.11 |
| FE-Penelec | Integrated Plant Energy Management | Mfg: Paper | Other | Existing | end use | 71,225 | 50% | 4.24 | 11 | \$7,020 | 48% | 1.65 |
| FE-Penelec | Integrated Plant Energy Management | Mfg: Paper | Other | New | end use | 71,225 | 50% | 4.24 | 11 | \$7,020 | 48% | 1.65 |
| FE-Penelec | Plant Energy Management | Mfg: Paper | Other | Existing | end use | 71,225 | 12% | 1.02 | 10 | \$179 | 55% | 4.51 |
| FE-Penelec | Plant Energy Management | Mfg: Paper | Other | New | end use | 71,225 | 12% | 1.02 | 10 | \$179 | 55% | 4.51 |
| FE-Penelec | Transformers | Mfg: Paper | Other | Early | end use | 71,225 | 1.6% | 0.14 | 15 | \$228 | 34% | 2.13 |
| FE-Penelec | Transformers | Mfg: Paper | Other | New | end use | 71,225 | 1.6% | 0.14 | 15 | \$228 | 34% | 2.13 |
| FE-Penelec | Transformers | Mfg: Paper | Other | ROB | end use | 71,225 | 1.6% | 0.14 | 15 | \$228 | 34% | 2.12 |
| FE-Penelec | Air Compressor Demand Reduction | Mfg: Paper | Process Air Compressor | Existing | end use | 11,672 | 26% | 0.39 | 10 | \$175 | 40% | 3.24 |
| FE-Penelec | Air Compressor Demand Reduction | Mfg: Paper | Process Air Compressor | New | end use | 11,672 | 26% | 0.39 | 10 | \$175 | 40% | 3.24 |
| FE-Penelec | Air Compressor Equipment | Mfg: Paper | Process Air Compressor | Early | end use | 11,672 | 39% | 0.59 | 10 | \$212 | 56% | 3.56 |
| FE-Penelec | Air Compressor Equipment | Mfg: Paper | Process Air Compressor | New | end use | 11,672 | 39% | 0.59 | 10 | \$212 | 56% | 3.56 |
| FE-Penelec | Air Compressor Equipment | Mfg: Paper | Process Air Compressor | ROB | end use | 11,672 | 39% | 0.59 | 10 | \$212 | 56% | 3.56 |
| FE-Penelec | Air Compressor Optimization | Mfg: Paper | Process Air Compressor | Existing | end use | 11,672 | 39% | 0.60 | 10 | \$509 | 42% | 2.30 |
| FE-Penelec | Air Compressor Optimization | Mfg: Paper | Process Air Compressor | New | end use | 11,672 | 39% | 0.60 | 10 | \$509 | 42% | 2.30 |
| FE-Penelec | Facility Energy Management | Mfg: Paper | Process Air Compressor | Existing | end use | 11,672 | 1.9% | 0.03 | 2 | \$4.5 | 50% | 1.13 |
| FE-Penelec | Facility Energy Management | Mfg: Paper | Process Air Compressor | New | end use | 11,672 | 1.9% | 0.03 | 2 | \$4.5 | 50% | 1.13 |
| FE-Penelec | HE Compressor motors | Mfg: Paper | Process Air Compressor | Early | end use | 11,672 | 1.1% | 0.02 | 15 | \$44 | 56% | 1.45 |
| FE-Penelec | HE Compressor motors | Mfg: Paper | Process Air Compressor | New | end use | 11,672 | 1.1% | 0.02 | 15 | \$44 | 56% | 1.45 |
| FE-Penelec | HE Compressor motors | Mfg: Paper | Process Air Compressor | ROB | end use | 11,672 | 1.1% | 0.02 | 15 | \$44 | 56% | 1.45 |
| FE-Penelec | Improved Controls - Air Compressor | Mfg: Paper | Process Air Compressor | Existing | end use | 11,672 | 41% | 0.62 | 10 | \$208 | 19% | 3.64 |
| FE-Penelec | Improved Controls - Air Compressor | Mfg: Paper | Process Air Compressor | New | end use | 11,672 | 41% | 0.62 | 10 | \$208 | 19% | 3.64 |
| FE-Penelec | Low Pressure-drop Filters | Mfg: Paper | Process Air Compressor | Existing | end use | 11,672 | 1.8% | 0.03 | 10 | \$132 | 46% | 0.61 |
| FE-Penelec | Low Pressure-drop Filters | Mfg: Paper | Process Air Compressor | New | end use | 11,672 | 1.9% | 0.03 | 10 | \$132 | 46% | 0.61 |
| FE-Penelec | Outside Air Intake | Mfg: Paper | Process Air Compressor | Existing | end use | 11,672 | 1.4% | 0.02 | 10 | \$77 | 37% | 0.79 |
| FE-Penelec | Outside Air Intake | Mfg: Paper | Process Air Compressor | New | end use | 11,672 | 1.4% | 0.02 | 10 | \$77 | 37% | 0.79 |
| FE-Penelec | Receiver Capacity Addition | Mfg: Paper | Process Air Compressor | Existing | end use | 11,672 | 6.0% | 0.09 | 10 | \$217 | 28% | 1.09 |
| FE-Penelec | Receiver Capacity Addition | Mfg: Paper | Process Air Compressor | New | end use | 11,672 | 5.9% | 0.09 | 10 | \$217 | 28% | 1.09 |
| FE-Penelec | Refrigerated Cycling Dryers | Mfg: Paper | Process Air Compressor | Early | end use | 11,672 | 1.7% | 0.03 | 10 | \$27 | 16% | 2.01 |
| FE-Penelec | Refrigerated Cycling Dryers | Mfg: Paper | Process Air Compressor | New | end use | 11,672 | 1.7% | 0.03 | 10 | \$27 | 16% | 2.00 |
| FE-Penelec | Refrigerated Cycling Dryers | Mfg: Paper | Process Air Compressor | ROB | end use | 11,672 | 1.7% | 0.03 | 10 | \$27 | 16% | 2.00 |
| FE-Penelec | VFD Controlled Compressor | Mfg: Paper | Process Air Compressor | Early | end use | 11,672 | 24% | 0.36 | 10 | \$1,149 | 22% | 0.86 |
| FE-Penelec | VFD Controlled Compressor | Mfg: Paper | Process Air Compressor | New | end use | 11,672 | 24% | 0.36 | 10 | \$1,149 | 22% | 0.86 |
| FE-Penelec | VFD Controlled Compressor | Mfg: Paper | Process Air Compressor | ROB | end use | 11,672 | 24% | 0.36 | 10 | \$1,149 | 22% | 0.86 |
| FE-Penelec | Zero Loss Condensate Drain | Mfg: Paper | Process Air Compressor | Early | end use | 11,672 | 1.9% | 0.03 | 10 | \$67 | 28% | 1.10 |
| FE-Penelec | Zero Loss Condensate Drain | Mfg: Paper | Process Air Compressor | New | end use | 11,672 | 1.9% | 0.03 | 10 | \$67 | 28% | 1.10 |
| FE-Penelec | Zero Loss Condensate Drain | Mfg: Paper | Process Air Compressor | ROB | end use | 11,672 | 1.8% | 0.03 | 10 | \$67 | 28% | 1.10 |
| FE-Penelec | Cooling Tower Optimization | Mfg: Paper | Process Cooling | Existing | building | 109,350 | 20% | 7.83 | 10 | \$670 | 15% | 5.13 |
| FE-Penelec | Equipment: Chillers | Mfg: Paper | Process Cooling | Early | end use | 43,792 | 18% | 1.63 | 15 | \$2,055 | 46% | 1.89 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---------------------------------------|------------|-----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Equipment: Chillers | Mfg: Paper | Process Cooling | New | end use | 43,792 | 18% | 1.63 | 15 | \$2,055 | 46% | 1.89 |
| FE-Penelec | Equipment: Chillers | Mfg: Paper | Process Cooling | ROB | end use | 43,792 | 18% | 1.63 | 15 | \$2,055 | 46% | 1.89 |
| FE-Penelec | Facility Energy Management | Mfg: Paper | Process Cooling | Existing | end use | 43,792 | 1.9% | 0.17 | 2 | \$17 | 59% | 1.20 |
| FE-Penelec | Facility Energy Management | Mfg: Paper | Process Cooling | New | end use | 43,792 | 1.9% | 0.17 | 2 | \$17 | 59% | 1.20 |
| FE-Penelec | Improved Controls - Process Cooling | Mfg: Paper | Process Cooling | Existing | end use | 43,792 | 6.0% | 0.55 | 10 | \$2,312 | 56% | 0.47 |
| FE-Penelec | Improved Controls - Process Cooling | Mfg: Paper | Process Cooling | New | end use | 43,792 | 6.0% | 0.55 | 10 | \$2,312 | 56% | 0.47 |
| FE-Penelec | VFD on Cooling Tower Fan | Mfg: Paper | Process Cooling | Early | motor | 109,350 | 21% | 6.90 | 15 | \$5,049 | 20% | 2.39 |
| FE-Penelec | VFD on Cooling Tower Fan | Mfg: Paper | Process Cooling | New | motor | 109,350 | 22% | 6.90 | 15 | \$5,146 | 20% | 2.37 |
| FE-Penelec | VFD on Cooling Tower Fan | Mfg: Paper | Process Cooling | ROB | motor | 109,350 | 22% | 6.90 | 15 | \$5,146 | 20% | 2.37 |
| FE-Penelec | Improved Controls - Process Heating | Mfg: Paper | Process Heating | Existing | end use | 184,604 | 17% | 4.34 | 10 | \$2,121 | 77% | 3.00 |
| FE-Penelec | Improved Controls - Process Heating | Mfg: Paper | Process Heating | New | end use | 184,604 | 17% | 4.34 | 10 | \$2,121 | 77% | 3.00 |
| FE-Penelec | Process Heat O&M | Mfg: Paper | Process Heating | Existing | end use | 184,604 | 16% | 4.10 | 2 | \$1,282 | 77% | 0.90 |
| FE-Penelec | Process Heat O&M | Mfg: Paper | Process Heating | New | end use | 184,604 | 16% | 4.10 | 2 | \$1,282 | 77% | 0.90 |
| FE-Penelec | Facility Energy Management | Mfg: Paper | Process Other | Existing | end use | 92,607 | 1.9% | 0.24 | 2 | \$36 | 73% | 1.11 |
| FE-Penelec | Facility Energy Management | Mfg: Paper | Process Other | New | end use | 92,607 | 1.8% | 0.24 | 2 | \$36 | 73% | 1.11 |
| FE-Penelec | Kraft: Efficient Agitator | Mfg: Paper | Process Other | Early | end use | 92,607 | 50% | 6.50 | 10 | \$3,880 | 22% | 2.74 |
| FE-Penelec | Kraft: Efficient Agitator | Mfg: Paper | Process Other | New | end use | 92,607 | 50% | 6.50 | 10 | \$3,880 | 22% | 2.74 |
| FE-Penelec | Kraft: Efficient Agitator | Mfg: Paper | Process Other | ROB | end use | 92,607 | 50% | 6.50 | 10 | \$3,880 | 22% | 2.74 |
| FE-Penelec | Kraft: Effluent Treatment System | Mfg: Paper | Process Other | Early | end use | 92,607 | 15% | 1.95 | 10 | \$1,031 | 22% | 2.92 |
| FE-Penelec | Kraft: Effluent Treatment System | Mfg: Paper | Process Other | New | end use | 92,607 | 15% | 1.95 | 10 | \$1,031 | 22% | 2.92 |
| FE-Penelec | Kraft: Effluent Treatment System | Mfg: Paper | Process Other | ROB | end use | 92,607 | 15% | 1.95 | 10 | \$1,031 | 22% | 2.92 |
| FE-Penelec | Mech Pulp: Premium Process | Mfg: Paper | Process Other | Early | end use | 92,607 | 0.2% | 0.02 | 5 | \$18 | 31% | 1.30 |
| FE-Penelec | Mech Pulp: Premium Process | Mfg: Paper | Process Other | New | end use | 92,607 | 0.2% | 0.02 | 5 | \$18 | 31% | 1.29 |
| FE-Penelec | Mech Pulp: Premium Process | Mfg: Paper | Process Other | ROB | end use | 92,607 | 0.2% | 0.02 | 5 | \$18 | 31% | 1.30 |
| FE-Penelec | Mech Pulp: Refiner Plate Improvement | Mfg: Paper | Process Other | Early | end use | 92,607 | 0.4% | 0.06 | 1 | \$15 | 31% | 0.54 |
| FE-Penelec | Mech Pulp: Refiner Plate Improvement | Mfg: Paper | Process Other | New | end use | 92,607 | 0.4% | 0.06 | 1 | \$15 | 31% | 0.54 |
| FE-Penelec | Mech Pulp: Refiner Plate Improvement | Mfg: Paper | Process Other | ROB | end use | 92,607 | 0.4% | 0.06 | 1 | \$15 | 31% | 0.54 |
| FE-Penelec | Mech Pulp: Refiner Replacement | Mfg: Paper | Process Other | Early | end use | 92,607 | 10% | 1.30 | 12 | \$5,463 | 31% | 0.74 |
| FE-Penelec | Mech Pulp: Refiner Replacement | Mfg: Paper | Process Other | New | end use | 92,607 | 10% | 1.30 | 12 | \$5,463 | 31% | 0.74 |
| FE-Penelec | Mech Pulp: Refiner Replacement | Mfg: Paper | Process Other | ROB | end use | 92,607 | 10% | 1.30 | 12 | \$5,463 | 31% | 0.74 |
| FE-Penelec | Paper: Efficient Pulp Screen | Mfg: Paper | Process Other | Early | end use | 92,607 | 15% | 1.95 | 10 | \$2,514 | 31% | 1.68 |
| FE-Penelec | Paper: Efficient Pulp Screen | Mfg: Paper | Process Other | New | end use | 92,607 | 15% | 1.95 | 10 | \$2,514 | 31% | 1.68 |
| FE-Penelec | Paper: Efficient Pulp Screen | Mfg: Paper | Process Other | ROB | end use | 92,607 | 15% | 1.95 | 10 | \$2,514 | 31% | 1.68 |
| FE-Penelec | Adjustable speed drive on compressors | Mfg: Paper | Process Refrigeration | Early | end use | 22,496 | 12% | 0.38 | 10 | \$416 | 30% | 1.86 |
| FE-Penelec | Adjustable speed drive on compressors | Mfg: Paper | Process Refrigeration | New | end use | 22,496 | 12% | 0.38 | 10 | \$416 | 30% | 1.86 |
| FE-Penelec | Adjustable speed drive on compressors | Mfg: Paper | Process Refrigeration | ROB | end use | 22,496 | 12% | 0.38 | 10 | \$416 | 30% | 1.86 |
| FE-Penelec | Cooling Tower Optimization | Mfg: Paper | Process Refrigeration | Existing | building | 56,172 | 20% | 4.02 | 10 | \$344 | 15% | 5.13 |
| FE-Penelec | Optimization of operating parameters | Mfg: Paper | Process Refrigeration | Existing | end use | 22,496 | 13% | 0.43 | 3 | \$182 | 27% | 1.14 |
| FE-Penelec | Optimization of operating parameters | Mfg: Paper | Process Refrigeration | New | end use | 22,496 | 13% | 0.43 | 3 | \$182 | 27% | 1.14 |
| FE-Penelec | Synchronous Belts | Mfg: Paper | Process Refrigeration | Early | end use | 22,496 | 1.2% | 0.04 | 10 | \$33 | 30% | 2.16 |
| FE-Penelec | Synchronous Belts | Mfg: Paper | Process Refrigeration | New | end use | 22,496 | 1.2% | 0.04 | 10 | \$33 | 30% | 2.16 |
| FE-Penelec | Synchronous Belts | Mfg: Paper | Process Refrigeration | ROB | end use | 22,496 | 1.2% | 0.04 | 10 | \$33 | 30% | 2.16 |
| FE-Penelec | VFD on Cooling Tower Fan | Mfg: Paper | Process Refrigeration | Early | motor | 56,172 | 21% | 3.54 | 15 | \$2,594 | 20% | 2.39 |
| FE-Penelec | VFD on Cooling Tower Fan | Mfg: Paper | Process Refrigeration | New | motor | 56,172 | 22% | 3.54 | 15 | \$2,643 | 20% | 2.37 |
| FE-Penelec | VFD on Cooling Tower Fan | Mfg: Paper | Process Refrigeration | ROB | motor | 56,172 | 22% | 3.54 | 15 | \$2,643 | 20% | 2.37 |
| FE-Penelec | Facility Energy Management | Mfg: Paper | Pumps | Existing | end use | 2,171,088 | 1.9% | 5.20 | 2 | \$837 | 69% | 1.17 |
| FE-Penelec | Facility Energy Management | Mfg: Paper | Pumps | New | end use | 2,171,088 | 1.9% | 5.20 | 2 | \$837 | 69% | 1.17 |
| FE-Penelec | HE Motors | Mfg: Paper | Pumps | Early | end use | 2,171,088 | 2.0% | 5.78 | 15 | \$12,925 | 73% | 1.64 |
| FE-Penelec | HE Motors | Mfg: Paper | Pumps | New | end use | 2,171,088 | 2.0% | 5.78 | 15 | \$12,925 | 73% | 1.64 |
| FE-Penelec | HE Motors | Mfg: Paper | Pumps | ROB | end use | 2,171,088 | 2.0% | 5.78 | 15 | \$12,925 | 73% | 1.64 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|--|---------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Motor rewinds | Mfg: Paper | Pumps | Existing | end use | 2,171,088 | 0.6% | 1.68 | 9 | \$3,087 | 11% | 1.29 |
| FE-Penelec | Motor rewinds | Mfg: Paper | Pumps | New | end use | 2,171,088 | 0.6% | 1.68 | 9 | \$3,087 | 11% | 1.31 |
| FE-Penelec | Pump Equipment Upgrade | Mfg: Paper | Pumps | Early | end use | 2,171,088 | 20% | 56.49 | 12 | \$54,277 | 81% | 2.46 |
| FE-Penelec | Pump Equipment Upgrade | Mfg: Paper | Pumps | New | end use | 2,171,088 | 20% | 56.49 | 12 | \$54,277 | 81% | 2.46 |
| FE-Penelec | Pump Equipment Upgrade | Mfg: Paper | Pumps | ROB | end use | 2,171,088 | 20% | 56.49 | 12 | \$54,277 | 81% | 2.46 |
| FE-Penelec | Pump System Optimization | Mfg: Paper | Pumps | Existing | end use | 2,171,088 | 8.7% | 24.56 | 12 | \$39,752 | 38% | 1.78 |
| FE-Penelec | Pump System Optimization | Mfg: Paper | Pumps | New | end use | 2,171,088 | 8.7% | 24.56 | 12 | \$39,752 | 38% | 1.78 |
| FE-Penelec | Synchronous Belts | Mfg: Paper | Pumps | Early | end use | 2,171,088 | 1.2% | 3.29 | 10 | \$3,199 | 61% | 2.12 |
| FE-Penelec | Synchronous Belts | Mfg: Paper | Pumps | New | end use | 2,171,088 | 1.2% | 3.29 | 10 | \$3,199 | 61% | 2.12 |
| FE-Penelec | Synchronous Belts | Mfg: Paper | Pumps | ROB | end use | 2,171,088 | 1.2% | 3.29 | 10 | \$3,199 | 61% | 2.12 |
| FE-Penelec | Circulating Fans | Mfg: Plastics | Fans | Early | end use | 57,612 | 5.0% | 0.34 | 10 | \$351 | 68% | 2.23 |
| FE-Penelec | Circulating Fans | Mfg: Plastics | Fans | New | end use | 57,612 | 5.0% | 0.34 | 10 | \$351 | 68% | 2.23 |
| FE-Penelec | Circulating Fans | Mfg: Plastics | Fans | ROB | end use | 57,612 | 5.0% | 0.34 | 10 | \$351 | 68% | 2.23 |
| FE-Penelec | Facility Energy Management | Mfg: Plastics | Fans | Existing | end use | 57,612 | 1.9% | 0.13 | 2 | \$22 | 77% | 1.16 |
| FE-Penelec | Facility Energy Management | Mfg: Plastics | Fans | New | end use | 57,612 | 1.9% | 0.13 | 2 | \$22 | 77% | 1.16 |
| FE-Penelec | HE Motors | Mfg: Plastics | Fans | Early | end use | 57,612 | 2.0% | 0.14 | 15 | \$343 | 77% | 1.68 |
| FE-Penelec | HE Motors | Mfg: Plastics | Fans | New | end use | 57,612 | 2.0% | 0.14 | 15 | \$343 | 77% | 1.68 |
| FE-Penelec | HE Motors | Mfg: Plastics | Fans | ROB | end use | 57,612 | 2.0% | 0.14 | 15 | \$343 | 77% | 1.68 |
| FE-Penelec | Improved Controls - Fans | Mfg: Plastics | Fans | Existing | end use | 57,612 | 7.1% | 0.49 | 10 | \$223 | 88% | 3.42 |
| FE-Penelec | Improved Controls - Fans | Mfg: Plastics | Fans | New | end use | 57,612 | 7.1% | 0.49 | 10 | \$223 | 88% | 3.42 |
| FE-Penelec | Properly Sized Fans | Mfg: Plastics | Fans | Early | end use | 57,612 | 13% | 0.90 | 10 | \$1,180 | 41% | 1.89 |
| FE-Penelec | Properly Sized Fans | Mfg: Plastics | Fans | New | end use | 57,612 | 13% | 0.90 | 10 | \$1,180 | 41% | 1.89 |
| FE-Penelec | Properly Sized Fans | Mfg: Plastics | Fans | ROB | end use | 57,612 | 13% | 0.90 | 10 | \$1,180 | 41% | 1.89 |
| FE-Penelec | Synchronous Belts | Mfg: Plastics | Fans | Early | end use | 57,612 | 1.2% | 0.08 | 10 | \$85 | 41% | 2.17 |
| FE-Penelec | Synchronous Belts | Mfg: Plastics | Fans | New | end use | 57,612 | 1.2% | 0.08 | 10 | \$85 | 41% | 2.17 |
| FE-Penelec | Synchronous Belts | Mfg: Plastics | Fans | ROB | end use | 57,612 | 1.2% | 0.08 | 10 | \$85 | 41% | 2.17 |
| FE-Penelec | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Plastics | HVAC | Early | unit (ton) | 34,307 | 9.2% | 0.82 | 15 | \$6,252 | 28% | 0.34 |
| FE-Penelec | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Plastics | HVAC | New | unit (ton) | 34,307 | 4.1% | 0.37 | 15 | \$1,515 | 28% | 0.62 |
| FE-Penelec | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Plastics | HVAC | ROB | unit (ton) | 34,307 | 4.1% | 0.37 | 15 | \$1,515 | 28% | 0.62 |
| FE-Penelec | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Plastics | HVAC | Early | unit (ton) | 34,307 | 12% | 1.10 | 15 | \$7,371 | 28% | 0.39 |
| FE-Penelec | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Plastics | HVAC | New | unit (ton) | 34,307 | 7.7% | 0.68 | 15 | \$3,191 | 28% | 0.55 |
| FE-Penelec | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Plastics | HVAC | ROB | unit (ton) | 34,307 | 7.7% | 0.68 | 15 | \$3,191 | 28% | 0.55 |
| FE-Penelec | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Plastics | HVAC | Early | unit (ton) | 34,307 | 15% | 1.36 | 15 | \$8,489 | 29% | 0.42 |
| FE-Penelec | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Plastics | HVAC | New | unit (ton) | 34,307 | 11% | 0.96 | 15 | \$4,866 | 29% | 0.51 |
| FE-Penelec | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Plastics | HVAC | ROB | unit (ton) | 34,307 | 11% | 0.96 | 15 | \$4,866 | 29% | 0.51 |
| FE-Penelec | >760k min 10.2 EER Air Conditioner | Mfg: Plastics | HVAC | Early | unit (ton) | 34,307 | 2.1% | 0.19 | 15 | \$10,888 | 35% | 0.05 |
| FE-Penelec | >760k min 10.2 EER Air Conditioner | Mfg: Plastics | HVAC | New | unit (ton) | 34,307 | 2.8% | 0.25 | 15 | \$984 | 35% | 0.65 |
| FE-Penelec | >760k min 10.2 EER Air Conditioner | Mfg: Plastics | HVAC | ROB | unit (ton) | 34,307 | 2.8% | 0.25 | 15 | \$984 | 35% | 0.65 |
| FE-Penelec | 135-240k min 12 EER Air Conditioner | Mfg: Plastics | HVAC | Early | unit (ton) | 34,307 | 10% | 0.93 | 15 | \$11,790 | 35% | 0.21 |
| FE-Penelec | 135-240k min 12 EER Air Conditioner | Mfg: Plastics | HVAC | New | unit (ton) | 34,307 | 5.8% | 0.51 | 15 | \$1,392 | 35% | 0.91 |
| FE-Penelec | 135-240k min 12 EER Air Conditioner | Mfg: Plastics | HVAC | ROB | unit (ton) | 34,307 | 5.8% | 0.51 | 15 | \$1,392 | 35% | 0.91 |
| FE-Penelec | 240k-760k min 11 EER Air Conditioner | Mfg: Plastics | HVAC | Early | unit (ton) | 34,307 | 5.2% | 0.46 | 15 | \$10,895 | 35% | 0.11 |
| FE-Penelec | 240k-760k min 11 EER Air Conditioner | Mfg: Plastics | HVAC | New | unit (ton) | 34,307 | 5.3% | 0.48 | 15 | \$1,167 | 35% | 0.99 |
| FE-Penelec | 240k-760k min 11 EER Air Conditioner | Mfg: Plastics | HVAC | ROB | unit (ton) | 34,307 | 5.3% | 0.48 | 15 | \$1,167 | 35% | 0.99 |
| FE-Penelec | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Plastics | HVAC | Early | unit (ton) | 34,307 | 9.7% | 0.86 | 15 | \$12,072 | 35% | 0.19 |
| FE-Penelec | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Plastics | HVAC | New | unit (ton) | 34,307 | 3.8% | 0.34 | 15 | \$1,722 | 35% | 0.51 |
| FE-Penelec | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Plastics | HVAC | ROB | unit (ton) | 34,307 | 3.8% | 0.34 | 15 | \$1,722 | 35% | 0.51 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Mfg: Plastics | HVAC | Existing | building | 265,574 | 5.9% | 3.94 | 15 | \$804,646 | 71% | 0.01 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Mfg: Plastics | HVAC | New | building | 265,574 | 3.7% | 2.47 | 15 | \$764,839 | 94% | 0.01 |
| FE-Penelec | Chiller Tuneup/Diagnostics | Mfg: Plastics | HVAC | Existing | building | 265,574 | 8.0% | 7.79 | 10 | \$678,129 | 59% | 0.02 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|---------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Chiller Tuneup/Diagnostics | Mfg: Plastics | HVAC | New | building | 265,574 | 8.0% | 7.80 | 10 | \$678,129 | 59% | 0.02 |
| FE-Penelec | Cooling Tower Optimization | Mfg: Plastics | HVAC | Existing | building | 265,574 | 20% | 19.01 | 10 | \$1,629 | 69% | 5.43 |
| FE-Penelec | Duct Insulation, Add R8 | Mfg: Plastics | HVAC | Existing | building | 265,574 | 1.5% | 0.85 | 15 | \$2,110 | 18% | 1.15 |
| FE-Penelec | Duct Insulation, Add R8 | Mfg: Plastics | HVAC | New | building | 265,574 | 1.5% | 0.85 | 15 | \$2,110 | 9% | 1.15 |
| FE-Penelec | Ductless Heat Pump | Mfg: Plastics | HVAC | Early | heat pump | 34,307 | 0.8% | 0.06 | 15 | \$2,712 | 83% | 0.07 |
| FE-Penelec | Ductless Heat Pump | Mfg: Plastics | HVAC | New | heat pump | 34,307 | 0.4% | 0.03 | 15 | \$788 | 83% | 0.13 |
| FE-Penelec | Ductless Heat Pump | Mfg: Plastics | HVAC | ROB | heat pump | 34,307 | 0.4% | 0.03 | 15 | \$788 | 83% | 0.13 |
| FE-Penelec | DX Coil Cleaning | Mfg: Plastics | HVAC | Existing | building | 265,574 | 13% | 12.18 | 1 | \$2,545 | 73% | 0.51 |
| FE-Penelec | DX Coil Cleaning | Mfg: Plastics | HVAC | New | building | 265,574 | 13% | 12.18 | 1 | \$2,545 | 73% | 0.51 |
| FE-Penelec | Efficient Unit Heating System | Mfg: Plastics | HVAC | Early | heater | 34,307 | 6.9% | 0.02 | 15 | \$1,852 | 83% | 0.64 |
| FE-Penelec | Efficient Unit Heating System | Mfg: Plastics | HVAC | New | heater | 34,307 | 4.0% | 0.01 | 15 | \$1,263 | 83% | 0.54 |
| FE-Penelec | Efficient Unit Heating System | Mfg: Plastics | HVAC | ROB | heater | 34,307 | 4.0% | 0.01 | 15 | \$1,263 | 83% | 0.54 |
| FE-Penelec | Ground Source Heat Pump (Closed Loop) | Mfg: Plastics | HVAC | Early | heat pump | 34,307 | 1.3% | 0.10 | 15 | \$5,632 | 19% | 0.05 |
| FE-Penelec | Ground Source Heat Pump (Closed Loop) | Mfg: Plastics | HVAC | New | heat pump | 34,307 | 1.0% | 0.08 | 15 | \$2,224 | 19% | 0.11 |
| FE-Penelec | Ground Source Heat Pump (Closed Loop) | Mfg: Plastics | HVAC | ROB | heat pump | 34,307 | 1.0% | 0.08 | 15 | \$2,224 | 19% | 0.11 |
| FE-Penelec | Ground Source Heat Pump (Open Loop) | Mfg: Plastics | HVAC | Early | heat pump | 34,307 | 1.3% | 0.10 | 15 | \$3,607 | 19% | 0.08 |
| FE-Penelec | Ground Source Heat Pump (Open Loop) | Mfg: Plastics | HVAC | New | heat pump | 34,307 | 1.0% | 0.08 | 15 | \$76 | 19% | 2.35 |
| FE-Penelec | Ground Source Heat Pump (Open Loop) | Mfg: Plastics | HVAC | ROB | heat pump | 34,307 | 1.0% | 0.08 | 15 | \$76 | 19% | 2.35 |
| FE-Penelec | HE Air Cooled Chiller, 100 Tons | Mfg: Plastics | HVAC | Early | unit (ton) | 34,307 | 1.5% | 0.11 | 15 | \$39,908 | 89% | 0.01 |
| FE-Penelec | HE Air Cooled Chiller, 100 Tons | Mfg: Plastics | HVAC | New | unit (ton) | 34,307 | 0.4% | 0.03 | 15 | \$5,814 | 89% | 0.02 |
| FE-Penelec | HE Air Cooled Chiller, 100 Tons | Mfg: Plastics | HVAC | ROB | unit (ton) | 34,307 | 0.4% | 0.03 | 15 | \$5,814 | 89% | 0.02 |
| FE-Penelec | HE Air Cooled Chiller, 150 Tons | Mfg: Plastics | HVAC | Early | unit (ton) | 34,307 | 1.4% | 0.11 | 15 | \$34,472 | 89% | 0.01 |
| FE-Penelec | HE Air Cooled Chiller, 150 Tons | Mfg: Plastics | HVAC | New | unit (ton) | 34,307 | 0.3% | 0.02 | 15 | \$2,855 | 89% | 0.02 |
| FE-Penelec | HE Air Cooled Chiller, 150 Tons | Mfg: Plastics | HVAC | ROB | unit (ton) | 34,307 | 0.3% | 0.02 | 15 | \$2,855 | 89% | 0.02 |
| FE-Penelec | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Plastics | HVAC | Early | heat pump | 34,307 | 1.4% | 0.11 | 12 | \$1,470 | 81% | 0.17 |
| FE-Penelec | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Plastics | HVAC | Early | heat pump | 34,307 | 1.1% | 0.09 | 12 | \$1,074 | 81% | 0.19 |
| FE-Penelec | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Plastics | HVAC | New | heat pump | 34,307 | 1.0% | 0.08 | 12 | \$656 | 81% | 0.28 |
| FE-Penelec | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Plastics | HVAC | New | heat pump | 34,307 | 0.8% | 0.06 | 12 | \$229 | 81% | 0.58 |
| FE-Penelec | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Plastics | HVAC | ROB | heat pump | 34,307 | 1.0% | 0.08 | 12 | \$656 | 81% | 0.28 |
| FE-Penelec | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Plastics | HVAC | ROB | heat pump | 34,307 | 0.8% | 0.06 | 12 | \$229 | 81% | 0.58 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Plastics | HVAC | Early | unit (ton) | 34,307 | 1.6% | 0.12 | 15 | \$3,167 | 89% | 0.12 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Plastics | HVAC | New | unit (ton) | 34,307 | 0.9% | 0.07 | 15 | \$1,053 | 89% | 0.20 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Plastics | HVAC | ROB | unit (ton) | 34,307 | 0.9% | 0.07 | 15 | \$1,053 | 89% | 0.20 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Plastics | HVAC | Early | unit (ton) | 34,307 | 1.4% | 0.11 | 15 | \$3,093 | 89% | 0.11 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Plastics | HVAC | New | unit (ton) | 34,307 | 1.0% | 0.08 | 15 | \$604 | 89% | 0.37 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Plastics | HVAC | ROB | unit (ton) | 34,307 | 1.4% | 0.11 | 15 | \$555 | 89% | 0.56 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Plastics | HVAC | Early | unit (ton) | 34,307 | 1.4% | 0.11 | 15 | \$3,660 | 89% | 0.09 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Plastics | HVAC | New | unit (ton) | 34,307 | 0.9% | 0.07 | 15 | \$1,541 | 89% | 0.13 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Plastics | HVAC | ROB | unit (ton) | 34,307 | 1.4% | 0.11 | 15 | \$1,395 | 89% | 0.23 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Plastics | HVAC | Early | unit (ton) | 34,307 | 1.4% | 0.11 | 15 | \$3,526 | 89% | 0.09 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Plastics | HVAC | New | unit (ton) | 34,307 | 0.9% | 0.07 | 15 | \$1,340 | 89% | 0.15 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Plastics | HVAC | ROB | unit (ton) | 34,307 | 1.4% | 0.11 | 15 | \$1,212 | 89% | 0.26 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Plastics | HVAC | Early | unit (ton) | 34,307 | 1.8% | 0.14 | 15 | \$3,799 | 89% | 0.11 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Plastics | HVAC | New | unit (ton) | 34,307 | 0.5% | 0.04 | 15 | \$2,352 | 89% | 0.05 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Plastics | HVAC | ROB | unit (ton) | 34,307 | 1.8% | 0.14 | 15 | \$1,827 | 89% | 0.23 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Plastics | HVAC | Early | unit (ton) | 34,307 | 2.1% | 0.17 | 15 | \$3,494 | 89% | 0.14 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Plastics | HVAC | New | unit (ton) | 34,307 | 0.8% | 0.06 | 15 | \$1,402 | 89% | 0.13 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Plastics | HVAC | ROB | unit (ton) | 34,307 | 0.8% | 0.06 | 15 | \$1,402 | 89% | 0.13 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Plastics | HVAC | Early | unit (ton) | 34,307 | 2.4% | 0.19 | 15 | \$2,962 | 89% | 0.19 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Plastics | HVAC | New | unit (ton) | 34,307 | 0.9% | 0.07 | 15 | \$745 | 89% | 0.27 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|---------------|----------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Plastics | HVAC | ROB | unit (ton) | 34,307 | 2.4% | 0.19 | 15 | \$531 | 89% | 0.95 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Plastics | HVAC | Early | unit (ton) | 34,307 | 1.8% | 0.14 | 15 | \$2,932 | 89% | 0.14 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Plastics | HVAC | New | unit (ton) | 34,307 | 0.7% | 0.05 | 15 | \$821 | 89% | 0.19 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Plastics | HVAC | ROB | unit (ton) | 34,307 | 1.8% | 0.14 | 15 | \$650 | 89% | 0.61 |
| FE-Penelec | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Plastics | HVAC | Existing | building | 265,574 | 2.9% | 1.56 | 5 | \$2,818 | 55% | 0.61 |
| FE-Penelec | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Plastics | HVAC | New | building | 265,574 | 0.6% | 0.62 | 5 | \$1,691 | 51% | 0.29 |
| FE-Penelec | Improved Controls - HVAC | Mfg: Plastics | HVAC | Existing | end use | 265,574 | 21% | 7.96 | 10 | \$2,792 | 76% | 3.68 |
| FE-Penelec | Improved Controls - HVAC | Mfg: Plastics | HVAC | New | end use | 265,574 | 21% | 7.96 | 10 | \$2,792 | 76% | 3.68 |
| FE-Penelec | Outside Air Economizer | Mfg: Plastics | HVAC | Existing | building | 265,574 | 1.1% | 0.74 | 10 | \$975,768 | 82% | 0.00 |
| FE-Penelec | Outside Air Economizer | Mfg: Plastics | HVAC | New | building | 265,574 | 1.1% | 0.74 | 10 | \$975,768 | 82% | 0.00 |
| FE-Penelec | Recommissioning | Mfg: Plastics | HVAC | Existing | end use | 265,574 | 5.0% | 1.91 | 10 | \$364 | 88% | 4.54 |
| FE-Penelec | Recommissioning | Mfg: Plastics | HVAC | New | end use | 265,574 | 5.0% | 1.91 | 10 | \$364 | 88% | 4.54 |
| FE-Penelec | Room AC (with louvered sides) | Mfg: Plastics | HVAC | Early | unit (ton) | 34,307 | 7.7% | 0.60 | 9 | \$2,690 | 78% | 0.41 |
| FE-Penelec | Room AC (with louvered sides) | Mfg: Plastics | HVAC | New | unit (ton) | 34,307 | 2.6% | 0.20 | 9 | \$147 | 78% | 1.88 |
| FE-Penelec | Room AC (with louvered sides) | Mfg: Plastics | HVAC | ROB | unit (ton) | 34,307 | 2.6% | 0.20 | 9 | \$147 | 78% | 1.88 |
| FE-Penelec | Variable Refrigerant Flow Heat Pump | Mfg: Plastics | HVAC | New | measure | 34,307 | 0.1% | 0.01 | 13 | \$253 | 43% | 0.09 |
| FE-Penelec | Variable Refrigerant Flow Heat Pump | Mfg: Plastics | HVAC | ROB | measure | 34,307 | 0.1% | 0.01 | 13 | \$253 | 43% | 0.09 |
| FE-Penelec | VFD on Cooling Tower Fan | Mfg: Plastics | HVAC | Early | motor | 34,307 | 21% | 2.16 | 15 | \$1,584 | 15% | 2.54 |
| FE-Penelec | VFD on Cooling Tower Fan | Mfg: Plastics | HVAC | New | motor | 34,307 | 22% | 2.16 | 15 | \$1,614 | 15% | 2.52 |
| FE-Penelec | VFD on Cooling Tower Fan | Mfg: Plastics | HVAC | ROB | motor | 34,307 | 22% | 2.16 | 15 | \$1,614 | 15% | 2.52 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Mfg: Plastics | HVAC | Existing | building | 265,574 | 19% | 12.70 | 15 | \$188,920 | 26% | 0.18 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Mfg: Plastics | HVAC | New | building | 265,574 | 0.6% | 0.41 | 15 | \$144,911 | 94% | 0.01 |
| FE-Penelec | Water Source Heat Pump (4 ton) | Mfg: Plastics | HVAC | Early | heat pump | 34,307 | 1.5% | 0.12 | 15 | \$5,832 | 28% | 0.06 |
| FE-Penelec | Water Source Heat Pump (4 ton) | Mfg: Plastics | HVAC | New | heat pump | 34,307 | 1.1% | 0.09 | 15 | \$2,842 | 28% | 0.09 |
| FE-Penelec | Water Source Heat Pump (4 ton) | Mfg: Plastics | HVAC | ROB | heat pump | 34,307 | 1.1% | 0.09 | 15 | \$2,842 | 28% | 0.09 |
| FE-Penelec | Efficient Metal Halide (High Bay) | Mfg: Plastics | Lighting | Early | end use | 28,899 | 42% | 0.00 | 9 | \$4,516 | 53% | 0.76 |
| FE-Penelec | Efficient Metal Halide (High Bay) | Mfg: Plastics | Lighting | New | end use | 28,899 | 41% | 0.00 | 13 | \$120,619 | 61% | 0.05 |
| FE-Penelec | Efficient Metal Halide (High Bay) | Mfg: Plastics | Lighting | ROB | end use | 28,899 | 41% | 0.00 | 13 | \$92,184 | 61% | 0.06 |
| FE-Penelec | Induction (High Bay) | Mfg: Plastics | Lighting | Early | end use | 28,899 | 94% | 0.00 | 13 | \$13,437 | 95% | 0.82 |
| FE-Penelec | Induction (High Bay) | Mfg: Plastics | Lighting | New | end use | 28,899 | 94% | 0.00 | 13 | \$12,580 | 95% | 0.87 |
| FE-Penelec | Induction (High Bay) | Mfg: Plastics | Lighting | ROB | end use | 28,899 | 94% | 0.00 | 13 | \$9,561 | 95% | 1.10 |
| FE-Penelec | LED (High Bay) | Mfg: Plastics | Lighting | Early | end use | 28,899 | 69% | 0.00 | 14 | \$15,817 | 95% | 0.57 |
| FE-Penelec | LED (High Bay) | Mfg: Plastics | Lighting | New | end use | 28,899 | 55% | 0.00 | 14 | \$17,556 | 95% | 0.42 |
| FE-Penelec | LED (High Bay) | Mfg: Plastics | Lighting | ROB | end use | 28,899 | 59% | 0.00 | 14 | \$11,567 | 95% | 0.66 |
| FE-Penelec | Lighting Controls | Mfg: Plastics | Lighting | Existing | end use | 28,899 | 20% | 0.00 | 6 | \$108,339 | 16% | 0.01 |
| FE-Penelec | Lighting Controls | Mfg: Plastics | Lighting | New | end use | 28,899 | 12% | 0.00 | 10 | \$144,127 | 11% | 0.01 |
| FE-Penelec | Linear Fluorescent (High Bay) | Mfg: Plastics | Lighting | Early | end use | 28,899 | 17% | 0.00 | 14 | \$3,307 | 98% | 0.66 |
| FE-Penelec | Linear Fluorescent (High Bay) | Mfg: Plastics | Lighting | New | end use | 28,899 | 13% | 0.00 | 14 | \$1,049 | 91% | 1.39 |
| FE-Penelec | Linear Fluorescent (High Bay) | Mfg: Plastics | Lighting | ROB | end use | 28,899 | 13% | 0.00 | 14 | \$671 | 91% | 2.01 |
| FE-Penelec | Metal Halide (High Bay) | Mfg: Plastics | Lighting | Early | end use | 28,899 | 62% | 0.00 | 13 | \$19,866 | 38% | 0.39 |
| FE-Penelec | Metal Halide (High Bay) | Mfg: Plastics | Lighting | New | end use | 28,899 | 73% | 0.00 | 13 | \$4,750 | 38% | 1.56 |
| FE-Penelec | Metal Halide (High Bay) | Mfg: Plastics | Lighting | ROB | end use | 28,899 | 73% | 0.00 | 13 | \$3,610 | 38% | 1.91 |
| FE-Penelec | Screw Base CFL | Mfg: Plastics | Lighting | Early | end use | 28,899 | 80% | 0.00 | 7 | \$7,851 | 17% | 0.66 |
| FE-Penelec | Screw Base CFL | Mfg: Plastics | Lighting | New | end use | 28,899 | 73% | 0.00 | 9 | \$6,416 | 18% | 0.90 |
| FE-Penelec | Screw Base CFL | Mfg: Plastics | Lighting | ROB | end use | 28,899 | 73% | 0.00 | 9 | \$5,370 | 17% | 1.03 |
| FE-Penelec | Screw Base LED | Mfg: Plastics | Lighting | Early | end use | 28,899 | 76% | 0.00 | 9 | \$4,818 | 21% | 1.21 |
| FE-Penelec | Screw Base LED | Mfg: Plastics | Lighting | New | end use | 28,899 | 77% | 0.00 | 9 | \$2,684 | 20% | 1.84 |
| FE-Penelec | Screw Base LED | Mfg: Plastics | Lighting | ROB | end use | 28,899 | 77% | 0.00 | 9 | \$2,131 | 21% | 2.11 |
| FE-Penelec | T8 High Performance Linear Florescent | Mfg: Plastics | Lighting | Early | end use | 28,899 | 36% | 0.00 | 14 | \$2,765 | 71% | 1.48 |
| FE-Penelec | T8 High Performance Linear Florescent | Mfg: Plastics | Lighting | New | end use | 28,899 | 26% | 0.00 | 14 | \$989 | 76% | 2.49 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|--|---------------|----------|----------|---------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | T8 High Performance Linear Florescent | Mfg: Plastics | Lighting | ROB | end use | 28,899 | 26% | 0.00 | 14 | \$752 | 76% | 2.94 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Plastics | Motors | Early | end use | 18,189 | 0.9% | 0.02 | 15 | \$278 | 81% | 0.34 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Plastics | Motors | New | end use | 18,189 | 0.9% | 0.02 | 15 | \$278 | 81% | 0.34 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Plastics | Motors | ROB | end use | 18,189 | 0.9% | 0.02 | 15 | \$278 | 81% | 0.35 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Plastics | Motors | Early | end use | 18,189 | 0.8% | 0.02 | 15 | \$169 | 73% | 0.46 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Plastics | Motors | New | end use | 18,189 | 0.7% | 0.02 | 15 | \$169 | 73% | 0.46 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Plastics | Motors | ROB | end use | 18,189 | 0.8% | 0.02 | 15 | \$169 | 73% | 0.46 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Plastics | Motors | Early | end use | 18,189 | 0.5% | 0.01 | 15 | \$65 | 81% | 0.71 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Plastics | Motors | New | end use | 18,189 | 0.5% | 0.01 | 15 | \$65 | 81% | 0.71 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Plastics | Motors | ROB | end use | 18,189 | 0.4% | 0.01 | 15 | \$65 | 81% | 0.69 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Plastics | Motors | Early | end use | 18,189 | 0.4% | 0.01 | 15 | \$21 | 73% | 1.63 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Plastics | Motors | New | end use | 18,189 | 0.4% | 0.01 | 15 | \$21 | 73% | 1.67 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Plastics | Motors | ROB | end use | 18,189 | 0.4% | 0.01 | 15 | \$21 | 73% | 1.67 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Plastics | Motors | Early | end use | 18,189 | 0.9% | 0.02 | 15 | \$32 | 47% | 2.32 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Plastics | Motors | New | end use | 18,189 | 0.9% | 0.02 | 15 | \$32 | 47% | 2.31 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Plastics | Motors | ROB | end use | 18,189 | 0.9% | 0.02 | 15 | \$32 | 47% | 2.29 |
| FE-Penelec | Facility Energy Management | Mfg: Plastics | Motors | Existing | end use | 18,189 | 1.9% | 0.05 | 2 | \$7.0 | 77% | 1.14 |
| FE-Penelec | Facility Energy Management | Mfg: Plastics | Motors | New | end use | 18,189 | 1.9% | 0.05 | 2 | \$7.0 | 77% | 1.15 |
| FE-Penelec | HE Motors | Mfg: Plastics | Motors | Early | end use | 18,189 | 2.0% | 0.05 | 15 | \$108 | 38% | 1.66 |
| FE-Penelec | HE Motors | Mfg: Plastics | Motors | New | end use | 18,189 | 2.0% | 0.05 | 15 | \$108 | 38% | 1.66 |
| FE-Penelec | HE Motors | Mfg: Plastics | Motors | ROB | end use | 18,189 | 2.0% | 0.05 | 15 | \$108 | 38% | 1.66 |
| FE-Penelec | High-Efficiency Ventilation System | Mfg: Plastics | Motors | Early | end use | 18,189 | 5.7% | 0.15 | 10 | \$1,137 | 73% | 0.36 |
| FE-Penelec | High-Efficiency Ventilation System | Mfg: Plastics | Motors | New | end use | 18,189 | 5.7% | 0.15 | 10 | \$1,137 | 73% | 0.36 |
| FE-Penelec | High-Efficiency Ventilation System | Mfg: Plastics | Motors | ROB | end use | 18,189 | 5.7% | 0.15 | 10 | \$1,137 | 73% | 0.36 |
| FE-Penelec | Improved Controls - Motors | Mfg: Plastics | Motors | Existing | end use | 18,189 | 4.0% | 0.10 | 10 | \$79 | 73% | 2.35 |
| FE-Penelec | Improved Controls - Motors | Mfg: Plastics | Motors | New | end use | 18,189 | 4.0% | 0.10 | 10 | \$79 | 73% | 2.35 |
| FE-Penelec | Motor Management Plan | Mfg: Plastics | Motors | Existing | end use | 18,189 | 2.9% | 0.08 | 10 | \$37 | 73% | 3.01 |
| FE-Penelec | Motor Management Plan | Mfg: Plastics | Motors | New | end use | 18,189 | 2.9% | 0.08 | 10 | \$37 | 73% | 3.00 |
| FE-Penelec | Motors Other | Mfg: Plastics | Motors | Existing | end use | 18,189 | 1.1% | 0.03 | 15 | \$3.6 | 83% | 6.77 |
| FE-Penelec | Motors Other | Mfg: Plastics | Motors | New | end use | 18,189 | 1.1% | 0.03 | 15 | \$3.6 | 83% | 6.77 |
| FE-Penelec | Motors: Rewind 101-200 HP | Mfg: Plastics | Motors | Existing | end use | 18,189 | 0.6% | 0.01 | 10 | \$23 | 27% | 1.42 |
| FE-Penelec | Motors: Rewind 101-200 HP | Mfg: Plastics | Motors | New | end use | 18,189 | 0.6% | 0.01 | 10 | \$23 | 27% | 1.44 |
| FE-Penelec | Motors: Rewind 201-500 HP | Mfg: Plastics | Motors | Existing | end use | 18,189 | 0.5% | 0.01 | 8 | \$14 | 27% | 1.65 |
| FE-Penelec | Motors: Rewind 201-500 HP | Mfg: Plastics | Motors | New | end use | 18,189 | 0.6% | 0.01 | 8 | \$14 | 27% | 1.67 |
| FE-Penelec | Motors: Rewind 20-50 HP | Mfg: Plastics | Motors | Existing | end use | 18,189 | 1.0% | 0.03 | 11 | \$68 | 42% | 1.08 |
| FE-Penelec | Motors: Rewind 20-50 HP | Mfg: Plastics | Motors | New | end use | 18,189 | 1.0% | 0.03 | 11 | \$68 | 42% | 1.08 |
| FE-Penelec | Motors: Rewind 500+ HP | Mfg: Plastics | Motors | Existing | end use | 18,189 | 0.6% | 0.01 | 8 | \$10 | 11% | 2.09 |
| FE-Penelec | Motors: Rewind 500+ HP | Mfg: Plastics | Motors | New | end use | 18,189 | 0.6% | 0.01 | 8 | \$10 | 11% | 2.07 |
| FE-Penelec | Motors: Rewind 51-100 HP | Mfg: Plastics | Motors | Existing | end use | 18,189 | 0.6% | 0.02 | 9 | \$33 | 42% | 1.05 |
| FE-Penelec | Motors: Rewind 51-100 HP | Mfg: Plastics | Motors | New | end use | 18,189 | 0.6% | 0.02 | 9 | \$33 | 42% | 1.04 |
| FE-Penelec | Switch from Belt drive to Direct Drive | Mfg: Plastics | Motors | Early | end use | 18,189 | 7.5% | 0.19 | 12 | \$292 | 30% | 1.72 |
| FE-Penelec | Switch from Belt drive to Direct Drive | Mfg: Plastics | Motors | New | end use | 18,189 | 7.5% | 0.19 | 12 | \$292 | 30% | 1.72 |
| FE-Penelec | Switch from Belt drive to Direct Drive | Mfg: Plastics | Motors | ROB | end use | 18,189 | 7.5% | 0.19 | 12 | \$292 | 30% | 1.72 |
| FE-Penelec | Synchronous Belts | Mfg: Plastics | Motors | Early | end use | 18,189 | 1.2% | 0.03 | 10 | \$27 | 30% | 2.15 |
| FE-Penelec | Synchronous Belts | Mfg: Plastics | Motors | New | end use | 18,189 | 1.2% | 0.03 | 10 | \$27 | 30% | 2.15 |
| FE-Penelec | Synchronous Belts | Mfg: Plastics | Motors | ROB | end use | 18,189 | 1.2% | 0.03 | 10 | \$27 | 30% | 2.15 |
| FE-Penelec | Bldg Improvements | Mfg: Plastics | Other | Existing | end use | 8,924 | 16% | 0.17 | 15 | \$195 | 72% | 2.85 |
| FE-Penelec | Bldg Improvements | Mfg: Plastics | Other | New | end use | 8,924 | 16% | 0.17 | 15 | \$195 | 72% | 2.85 |
| FE-Penelec | Energy Project Management | Mfg: Plastics | Other | Existing | end use | 8,924 | 29% | 0.31 | 11 | \$319 | 63% | 2.28 |
| FE-Penelec | Energy Project Management | Mfg: Plastics | Other | New | end use | 8,924 | 29% | 0.31 | 11 | \$319 | 63% | 2.28 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|-------------------------------------|---------------|------------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Facility Energy Management | Mfg: Plastics | Other | Existing | end use | 8,924 | 1.8% | 0.02 | 2 | \$3.4 | 76% | 1.11 |
| FE-Penelec | Facility Energy Management | Mfg: Plastics | Other | New | end use | 8,924 | 1.9% | 0.02 | 2 | \$3.4 | 76% | 1.11 |
| FE-Penelec | Integrated Plant Energy Management | Mfg: Plastics | Other | Existing | end use | 8,924 | 50% | 0.53 | 11 | \$880 | 48% | 1.65 |
| FE-Penelec | Integrated Plant Energy Management | Mfg: Plastics | Other | New | end use | 8,924 | 50% | 0.53 | 11 | \$880 | 48% | 1.65 |
| FE-Penelec | Plant Energy Management | Mfg: Plastics | Other | Existing | end use | 8,924 | 12% | 0.13 | 10 | \$22 | 55% | 4.51 |
| FE-Penelec | Plant Energy Management | Mfg: Plastics | Other | New | end use | 8,924 | 12% | 0.13 | 10 | \$22 | 55% | 4.51 |
| FE-Penelec | Transformers | Mfg: Plastics | Other | Early | end use | 8,924 | 1.6% | 0.02 | 15 | \$29 | 34% | 2.12 |
| FE-Penelec | Transformers | Mfg: Plastics | Other | New | end use | 8,924 | 1.6% | 0.02 | 15 | \$29 | 34% | 2.13 |
| FE-Penelec | Transformers | Mfg: Plastics | Other | ROB | end use | 8,924 | 1.6% | 0.02 | 15 | \$29 | 34% | 2.12 |
| FE-Penelec | Air Compressor Demand Reduction | Mfg: Plastics | Process Air Compressor | Existing | end use | 599 | 26% | 0.02 | 10 | \$9.0 | 40% | 3.24 |
| FE-Penelec | Air Compressor Demand Reduction | Mfg: Plastics | Process Air Compressor | New | end use | 599 | 26% | 0.02 | 10 | \$9.0 | 40% | 3.24 |
| FE-Penelec | Facility Energy Management | Mfg: Plastics | Process Air Compressor | Existing | end use | 599 | 1.9% | 0.00 | 2 | \$0.2 | 50% | 1.13 |
| FE-Penelec | Facility Energy Management | Mfg: Plastics | Process Air Compressor | New | end use | 599 | 1.9% | 0.00 | 2 | \$0.2 | 50% | 1.13 |
| FE-Penelec | HE Compressor motors | Mfg: Plastics | Process Air Compressor | Early | end use | 599 | 1.1% | 0.00 | 15 | \$2.3 | 56% | 1.44 |
| FE-Penelec | HE Compressor motors | Mfg: Plastics | Process Air Compressor | New | end use | 599 | 1.1% | 0.00 | 15 | \$2.3 | 56% | 1.43 |
| FE-Penelec | HE Compressor motors | Mfg: Plastics | Process Air Compressor | ROB | end use | 599 | 1.1% | 0.00 | 15 | \$2.3 | 56% | 1.44 |
| FE-Penelec | Improved Controls - Air Compressor | Mfg: Plastics | Process Air Compressor | Existing | end use | 599 | 41% | 0.03 | 10 | \$11 | 19% | 3.64 |
| FE-Penelec | Improved Controls - Air Compressor | Mfg: Plastics | Process Air Compressor | New | end use | 599 | 41% | 0.03 | 10 | \$11 | 19% | 3.64 |
| FE-Penelec | Low Pressure-drop Filters | Mfg: Plastics | Process Air Compressor | Existing | end use | 599 | 1.9% | 0.00 | 10 | \$6.8 | 46% | 0.61 |
| FE-Penelec | Low Pressure-drop Filters | Mfg: Plastics | Process Air Compressor | New | end use | 599 | 1.8% | 0.00 | 10 | \$6.8 | 46% | 0.61 |
| FE-Penelec | Outside Air Intake | Mfg: Plastics | Process Air Compressor | Existing | end use | 599 | 1.4% | 0.00 | 10 | \$3.9 | 37% | 0.79 |
| FE-Penelec | Outside Air Intake | Mfg: Plastics | Process Air Compressor | New | end use | 599 | 1.4% | 0.00 | 10 | \$3.9 | 37% | 0.79 |
| FE-Penelec | Receiver Capacity Addition | Mfg: Plastics | Process Air Compressor | Existing | end use | 599 | 5.9% | 0.00 | 10 | \$11 | 28% | 1.09 |
| FE-Penelec | Receiver Capacity Addition | Mfg: Plastics | Process Air Compressor | New | end use | 599 | 5.9% | 0.00 | 10 | \$11 | 28% | 1.09 |
| FE-Penelec | Refrigerated Cycling Dryers | Mfg: Plastics | Process Air Compressor | Early | end use | 599 | 1.7% | 0.00 | 10 | \$1.4 | 16% | 2.01 |
| FE-Penelec | Refrigerated Cycling Dryers | Mfg: Plastics | Process Air Compressor | New | end use | 599 | 1.7% | 0.00 | 10 | \$1.4 | 16% | 2.01 |
| FE-Penelec | Refrigerated Cycling Dryers | Mfg: Plastics | Process Air Compressor | ROB | end use | 599 | 1.7% | 0.00 | 10 | \$1.4 | 16% | 2.01 |
| FE-Penelec | VFD Controlled Compressor | Mfg: Plastics | Process Air Compressor | Early | end use | 599 | 24% | 0.02 | 10 | \$59 | 22% | 0.86 |
| FE-Penelec | VFD Controlled Compressor | Mfg: Plastics | Process Air Compressor | New | end use | 599 | 24% | 0.02 | 10 | \$59 | 22% | 0.86 |
| FE-Penelec | VFD Controlled Compressor | Mfg: Plastics | Process Air Compressor | ROB | end use | 599 | 24% | 0.02 | 10 | \$59 | 22% | 0.86 |
| FE-Penelec | Zero Loss Condensate Drain | Mfg: Plastics | Process Air Compressor | Early | end use | 599 | 1.8% | 0.00 | 10 | \$3.4 | 28% | 1.09 |
| FE-Penelec | Zero Loss Condensate Drain | Mfg: Plastics | Process Air Compressor | New | end use | 599 | 1.8% | 0.00 | 10 | \$3.4 | 28% | 1.09 |
| FE-Penelec | Zero Loss Condensate Drain | Mfg: Plastics | Process Air Compressor | ROB | end use | 599 | 1.9% | 0.00 | 10 | \$3.4 | 28% | 1.10 |
| FE-Penelec | Clean Room: Change Filter Strategy | Mfg: Plastics | Process Cooling | Existing | end use | 23,253 | 40% | 1.94 | 1 | \$60 | 17% | 0.79 |
| FE-Penelec | Clean Room: Change Filter Strategy | Mfg: Plastics | Process Cooling | New | end use | 23,253 | 40% | 1.94 | 1 | \$60 | 17% | 0.79 |
| FE-Penelec | Clean Room: Chiller Optimize | Mfg: Plastics | Process Cooling | Existing | end use | 23,253 | 15% | 0.72 | 10 | \$281 | 27% | 2.94 |
| FE-Penelec | Clean Room: Chiller Optimize | Mfg: Plastics | Process Cooling | New | end use | 23,253 | 15% | 0.72 | 10 | \$281 | 27% | 2.94 |
| FE-Penelec | Clean Room: Clean Room HVAC | Mfg: Plastics | Process Cooling | Existing | end use | 23,253 | 9.0% | 0.44 | 15 | \$339 | 40% | 2.71 |
| FE-Penelec | Clean Room: Clean Room HVAC | Mfg: Plastics | Process Cooling | New | end use | 23,253 | 9.0% | 0.44 | 15 | \$339 | 40% | 2.71 |
| FE-Penelec | Cooling Tower Optimization | Mfg: Plastics | Process Cooling | Existing | building | 180,000 | 20% | 12.88 | 10 | \$1,104 | 15% | 5.13 |
| FE-Penelec | Equipment: Chillers | Mfg: Plastics | Process Cooling | Early | end use | 23,253 | 18% | 0.87 | 15 | \$1,091 | 50% | 1.89 |
| FE-Penelec | Equipment: Chillers | Mfg: Plastics | Process Cooling | New | end use | 23,253 | 18% | 0.87 | 15 | \$1,091 | 50% | 1.89 |
| FE-Penelec | Equipment: Chillers | Mfg: Plastics | Process Cooling | ROB | end use | 23,253 | 18% | 0.87 | 15 | \$1,091 | 50% | 1.89 |
| FE-Penelec | Facility Energy Management | Mfg: Plastics | Process Cooling | Existing | end use | 23,253 | 1.9% | 0.09 | 2 | \$9.0 | 63% | 1.20 |
| FE-Penelec | Facility Energy Management | Mfg: Plastics | Process Cooling | New | end use | 23,253 | 1.9% | 0.09 | 2 | \$9.0 | 63% | 1.20 |
| FE-Penelec | Improved Controls - Process Cooling | Mfg: Plastics | Process Cooling | Existing | end use | 23,253 | 6.0% | 0.29 | 10 | \$1,228 | 60% | 0.47 |
| FE-Penelec | Improved Controls - Process Cooling | Mfg: Plastics | Process Cooling | New | end use | 23,253 | 6.0% | 0.29 | 10 | \$1,228 | 60% | 0.47 |
| FE-Penelec | VFD on Cooling Tower Fan | Mfg: Plastics | Process Cooling | Early | motor | 180,000 | 21% | 11.35 | 15 | \$8,311 | 20% | 2.39 |
| FE-Penelec | VFD on Cooling Tower Fan | Mfg: Plastics | Process Cooling | New | motor | 180,000 | 22% | 11.35 | 15 | \$8,470 | 20% | 2.37 |
| FE-Penelec | VFD on Cooling Tower Fan | Mfg: Plastics | Process Cooling | ROB | motor | 180,000 | 22% | 11.35 | 15 | \$8,470 | 20% | 2.37 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---------------------------------------|---------------|-----------------------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Improved Controls - Process Heating | Mfg: Plastics | Process Heating | Existing | end use | 53,234 | 17% | 1.25 | 10 | \$612 | 77% | 3.00 |
| FE-Penelec | Improved Controls - Process Heating | Mfg: Plastics | Process Heating | New | end use | 53,234 | 17% | 1.25 | 10 | \$612 | 77% | 3.00 |
| FE-Penelec | Process Heat O&M | Mfg: Plastics | Process Heating | Existing | end use | 53,234 | 16% | 1.18 | 2 | \$370 | 77% | 0.90 |
| FE-Penelec | Process Heat O&M | Mfg: Plastics | Process Heating | New | end use | 53,234 | 16% | 1.18 | 2 | \$370 | 77% | 0.90 |
| FE-Penelec | Facility Energy Management | Mfg: Plastics | Process Other | Existing | end use | 35,077 | 1.9% | 0.09 | 2 | \$14 | 73% | 1.12 |
| FE-Penelec | Facility Energy Management | Mfg: Plastics | Process Other | New | end use | 35,077 | 1.9% | 0.09 | 2 | \$14 | 73% | 1.12 |
| FE-Penelec | Adjustable speed drive on compressors | Mfg: Plastics | Process Refrigeration | Early | end use | 11,945 | 12% | 0.20 | 10 | \$221 | 30% | 1.86 |
| FE-Penelec | Adjustable speed drive on compressors | Mfg: Plastics | Process Refrigeration | New | end use | 11,945 | 12% | 0.20 | 10 | \$221 | 30% | 1.86 |
| FE-Penelec | Adjustable speed drive on compressors | Mfg: Plastics | Process Refrigeration | ROB | end use | 11,945 | 12% | 0.20 | 10 | \$221 | 30% | 1.86 |
| FE-Penelec | Cooling Tower Optimization | Mfg: Plastics | Process Refrigeration | Existing | building | 92,465 | 20% | 6.62 | 10 | \$567 | 15% | 5.13 |
| FE-Penelec | Optimization of operating parameters | Mfg: Plastics | Process Refrigeration | Existing | end use | 11,945 | 13% | 0.23 | 3 | \$96 | 27% | 1.14 |
| FE-Penelec | Optimization of operating parameters | Mfg: Plastics | Process Refrigeration | New | end use | 11,945 | 13% | 0.23 | 3 | \$96 | 27% | 1.14 |
| FE-Penelec | Synchronous Belts | Mfg: Plastics | Process Refrigeration | Early | end use | 11,945 | 1.2% | 0.02 | 10 | \$18 | 30% | 2.16 |
| FE-Penelec | Synchronous Belts | Mfg: Plastics | Process Refrigeration | New | end use | 11,945 | 1.2% | 0.02 | 10 | \$18 | 30% | 2.16 |
| FE-Penelec | Synchronous Belts | Mfg: Plastics | Process Refrigeration | ROB | end use | 11,945 | 1.2% | 0.02 | 10 | \$18 | 30% | 2.16 |
| FE-Penelec | VFD on Cooling Tower Fan | Mfg: Plastics | Process Refrigeration | Early | motor | 92,465 | 21% | 5.83 | 15 | \$4,269 | 20% | 2.39 |
| FE-Penelec | VFD on Cooling Tower Fan | Mfg: Plastics | Process Refrigeration | New | motor | 92,465 | 22% | 5.83 | 15 | \$4,351 | 20% | 2.37 |
| FE-Penelec | VFD on Cooling Tower Fan | Mfg: Plastics | Process Refrigeration | ROB | motor | 92,465 | 22% | 5.83 | 15 | \$4,351 | 20% | 2.37 |
| FE-Penelec | Facility Energy Management | Mfg: Plastics | Pumps | Existing | end use | 101,959 | 1.9% | 0.24 | 2 | \$39 | 65% | 1.17 |
| FE-Penelec | Facility Energy Management | Mfg: Plastics | Pumps | New | end use | 101,959 | 1.9% | 0.24 | 2 | \$39 | 65% | 1.18 |
| FE-Penelec | HE Motors | Mfg: Plastics | Pumps | Early | end use | 101,959 | 2.0% | 0.27 | 15 | \$607 | 69% | 1.64 |
| FE-Penelec | HE Motors | Mfg: Plastics | Pumps | New | end use | 101,959 | 2.0% | 0.27 | 15 | \$607 | 69% | 1.64 |
| FE-Penelec | HE Motors | Mfg: Plastics | Pumps | ROB | end use | 101,959 | 2.0% | 0.27 | 15 | \$607 | 69% | 1.64 |
| FE-Penelec | Motor rewinds | Mfg: Plastics | Pumps | Existing | end use | 101,959 | 0.6% | 0.08 | 9 | \$145 | 11% | 1.30 |
| FE-Penelec | Motor rewinds | Mfg: Plastics | Pumps | New | end use | 101,959 | 0.6% | 0.08 | 9 | \$145 | 11% | 1.30 |
| FE-Penelec | Pump Equipment Upgrade | Mfg: Plastics | Pumps | Early | end use | 101,959 | 20% | 2.65 | 12 | \$2,549 | 77% | 2.46 |
| FE-Penelec | Pump Equipment Upgrade | Mfg: Plastics | Pumps | New | end use | 101,959 | 20% | 2.65 | 12 | \$2,549 | 77% | 2.46 |
| FE-Penelec | Pump Equipment Upgrade | Mfg: Plastics | Pumps | ROB | end use | 101,959 | 20% | 2.65 | 12 | \$2,549 | 77% | 2.46 |
| FE-Penelec | Pump System Optimization | Mfg: Plastics | Pumps | Existing | end use | 101,959 | 8.7% | 1.15 | 12 | \$1,867 | 36% | 1.78 |
| FE-Penelec | Pump System Optimization | Mfg: Plastics | Pumps | New | end use | 101,959 | 8.7% | 1.15 | 12 | \$1,867 | 36% | 1.78 |
| FE-Penelec | Synchronous Belts | Mfg: Plastics | Pumps | Early | end use | 101,959 | 1.2% | 0.15 | 10 | \$150 | 57% | 2.12 |
| FE-Penelec | Synchronous Belts | Mfg: Plastics | Pumps | New | end use | 101,959 | 1.2% | 0.15 | 10 | \$150 | 57% | 2.12 |
| FE-Penelec | Synchronous Belts | Mfg: Plastics | Pumps | ROB | end use | 101,959 | 1.2% | 0.15 | 10 | \$150 | 57% | 2.12 |
| FE-Penelec | <65k BTU/hr 14 SEER Air Conditioner | Mining | HVAC | Early | unit (ton) | 12,707 | 9.2% | 0.30 | 15 | \$2,316 | 28% | 0.34 |
| FE-Penelec | <65k BTU/hr 14 SEER Air Conditioner | Mining | HVAC | New | unit (ton) | 12,707 | 4.1% | 0.14 | 15 | \$561 | 28% | 0.62 |
| FE-Penelec | <65k BTU/hr 14 SEER Air Conditioner | Mining | HVAC | ROB | unit (ton) | 12,707 | 4.1% | 0.14 | 15 | \$561 | 28% | 0.62 |
| FE-Penelec | <65k BTU/hr 15 SEER Air Conditioner | Mining | HVAC | Early | unit (ton) | 12,707 | 12% | 0.41 | 15 | \$2,730 | 28% | 0.39 |
| FE-Penelec | <65k BTU/hr 15 SEER Air Conditioner | Mining | HVAC | New | unit (ton) | 12,707 | 7.7% | 0.25 | 15 | \$1,182 | 28% | 0.55 |
| FE-Penelec | <65k BTU/hr 15 SEER Air Conditioner | Mining | HVAC | ROB | unit (ton) | 12,707 | 7.7% | 0.25 | 15 | \$1,182 | 28% | 0.55 |
| FE-Penelec | <65k BTU/hr 16 SEER Air Conditioner | Mining | HVAC | Early | unit (ton) | 12,707 | 15% | 0.50 | 15 | \$3,144 | 29% | 0.42 |
| FE-Penelec | <65k BTU/hr 16 SEER Air Conditioner | Mining | HVAC | New | unit (ton) | 12,707 | 11% | 0.36 | 15 | \$1,802 | 29% | 0.51 |
| FE-Penelec | <65k BTU/hr 16 SEER Air Conditioner | Mining | HVAC | ROB | unit (ton) | 12,707 | 11% | 0.36 | 15 | \$1,802 | 29% | 0.51 |
| FE-Penelec | >760k min 10.2 EER Air Conditioner | Mining | HVAC | Early | unit (ton) | 12,707 | 2.1% | 0.07 | 15 | \$4,033 | 35% | 0.05 |
| FE-Penelec | >760k min 10.2 EER Air Conditioner | Mining | HVAC | New | unit (ton) | 12,707 | 2.8% | 0.09 | 15 | \$364 | 35% | 0.65 |
| FE-Penelec | >760k min 10.2 EER Air Conditioner | Mining | HVAC | ROB | unit (ton) | 12,707 | 2.8% | 0.09 | 15 | \$364 | 35% | 0.65 |
| FE-Penelec | 135-240k min 12 EER Air Conditioner | Mining | HVAC | Early | unit (ton) | 12,707 | 10% | 0.34 | 15 | \$4,367 | 35% | 0.21 |
| FE-Penelec | 135-240k min 12 EER Air Conditioner | Mining | HVAC | New | unit (ton) | 12,707 | 5.8% | 0.19 | 15 | \$516 | 35% | 0.91 |
| FE-Penelec | 135-240k min 12 EER Air Conditioner | Mining | HVAC | ROB | unit (ton) | 12,707 | 5.8% | 0.19 | 15 | \$516 | 35% | 0.91 |
| FE-Penelec | 240k-760k min 11 EER Air Conditioner | Mining | HVAC | Early | unit (ton) | 12,707 | 5.2% | 0.17 | 15 | \$4,035 | 35% | 0.11 |
| FE-Penelec | 240k-760k min 11 EER Air Conditioner | Mining | HVAC | New | unit (ton) | 12,707 | 5.3% | 0.18 | 15 | \$432 | 35% | 0.99 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|---------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | 240k-760k min 11 EER Air Conditioner | Mining | HVAC | ROB | unit (ton) | 12,707 | 5.3% | 0.18 | 15 | \$432 | 35% | 0.99 |
| FE-Penelec | 65k-135k BTU/hr 12 EER Air Conditioner | Mining | HVAC | Early | unit (ton) | 12,707 | 9.7% | 0.32 | 15 | \$4,471 | 35% | 0.19 |
| FE-Penelec | 65k-135k BTU/hr 12 EER Air Conditioner | Mining | HVAC | New | unit (ton) | 12,707 | 3.8% | 0.13 | 15 | \$638 | 35% | 0.51 |
| FE-Penelec | 65k-135k BTU/hr 12 EER Air Conditioner | Mining | HVAC | ROB | unit (ton) | 12,707 | 3.8% | 0.13 | 15 | \$638 | 35% | 0.51 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Mining | HVAC | Existing | building | 27,020 | 5.9% | 0.40 | 15 | \$81,865 | 71% | 0.01 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Mining | HVAC | New | building | 27,020 | 3.7% | 0.25 | 15 | \$77,815 | 94% | 0.01 |
| FE-Penelec | Chiller Tuneup/Diagnostics | Mining | HVAC | Existing | building | 27,020 | 8.0% | 0.79 | 10 | \$68,993 | 59% | 0.02 |
| FE-Penelec | Chiller Tuneup/Diagnostics | Mining | HVAC | New | building | 27,020 | 8.0% | 0.79 | 10 | \$68,993 | 59% | 0.02 |
| FE-Penelec | Cooling Tower Optimization | Mining | HVAC | Existing | building | 27,020 | 20% | 1.93 | 10 | \$166 | 69% | 5.43 |
| FE-Penelec | Duct Insulation, Add R8 | Mining | HVAC | Existing | building | 27,020 | 1.5% | 0.09 | 15 | \$215 | 18% | 1.15 |
| FE-Penelec | Duct Insulation, Add R8 | Mining | HVAC | New | building | 27,020 | 1.5% | 0.09 | 15 | \$215 | 9% | 1.15 |
| FE-Penelec | Ductless Heat Pump | Mining | HVAC | Early | heat pump | 12,707 | 0.8% | 0.02 | 15 | \$1,005 | 83% | 0.07 |
| FE-Penelec | Ductless Heat Pump | Mining | HVAC | New | heat pump | 12,707 | 0.4% | 0.01 | 15 | \$292 | 83% | 0.13 |
| FE-Penelec | Ductless Heat Pump | Mining | HVAC | ROB | heat pump | 12,707 | 0.4% | 0.01 | 15 | \$292 | 83% | 0.13 |
| FE-Penelec | DX Coil Cleaning | Mining | HVAC | Existing | building | 27,020 | 13% | 1.24 | 1 | \$259 | 73% | 0.51 |
| FE-Penelec | DX Coil Cleaning | Mining | HVAC | New | building | 27,020 | 13% | 1.24 | 1 | \$259 | 73% | 0.51 |
| FE-Penelec | Efficient Unit Heating System | Mining | HVAC | Early | heater | 12,707 | 6.9% | 0.01 | 15 | \$686 | 83% | 0.64 |
| FE-Penelec | Efficient Unit Heating System | Mining | HVAC | New | heater | 12,707 | 4.0% | 0.00 | 15 | \$468 | 83% | 0.54 |
| FE-Penelec | Efficient Unit Heating System | Mining | HVAC | ROB | heater | 12,707 | 4.0% | 0.00 | 15 | \$468 | 83% | 0.54 |
| FE-Penelec | Ground Source Heat Pump (Closed Loop) | Mining | HVAC | Early | heat pump | 12,707 | 1.3% | 0.04 | 15 | \$2,086 | 19% | 0.05 |
| FE-Penelec | Ground Source Heat Pump (Closed Loop) | Mining | HVAC | New | heat pump | 12,707 | 1.0% | 0.03 | 15 | \$824 | 19% | 0.11 |
| FE-Penelec | Ground Source Heat Pump (Closed Loop) | Mining | HVAC | ROB | heat pump | 12,707 | 1.0% | 0.03 | 15 | \$824 | 19% | 0.11 |
| FE-Penelec | Ground Source Heat Pump (Open Loop) | Mining | HVAC | Early | heat pump | 12,707 | 1.3% | 0.04 | 15 | \$1,336 | 19% | 0.08 |
| FE-Penelec | Ground Source Heat Pump (Open Loop) | Mining | HVAC | New | heat pump | 12,707 | 1.0% | 0.03 | 15 | \$28 | 19% | 2.35 |
| FE-Penelec | Ground Source Heat Pump (Open Loop) | Mining | HVAC | ROB | heat pump | 12,707 | 1.0% | 0.03 | 15 | \$28 | 19% | 2.35 |
| FE-Penelec | HE Air Cooled Chiller, 100 Tons | Mining | HVAC | Early | unit (ton) | 12,707 | 1.5% | 0.04 | 15 | \$14,781 | 89% | 0.01 |
| FE-Penelec | HE Air Cooled Chiller, 100 Tons | Mining | HVAC | New | unit (ton) | 12,707 | 0.4% | 0.01 | 15 | \$2,153 | 89% | 0.02 |
| FE-Penelec | HE Air Cooled Chiller, 100 Tons | Mining | HVAC | ROB | unit (ton) | 12,707 | 0.4% | 0.01 | 15 | \$2,153 | 89% | 0.02 |
| FE-Penelec | HE Air Cooled Chiller, 150 Tons | Mining | HVAC | Early | unit (ton) | 12,707 | 1.4% | 0.04 | 15 | \$12,768 | 89% | 0.01 |
| FE-Penelec | HE Air Cooled Chiller, 150 Tons | Mining | HVAC | New | unit (ton) | 12,707 | 0.3% | 0.01 | 15 | \$1,058 | 89% | 0.02 |
| FE-Penelec | HE Air Cooled Chiller, 150 Tons | Mining | HVAC | ROB | unit (ton) | 12,707 | 0.3% | 0.01 | 15 | \$1,058 | 89% | 0.02 |
| FE-Penelec | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mining | HVAC | Early | heat pump | 12,707 | 1.4% | 0.04 | 12 | \$545 | 81% | 0.17 |
| FE-Penelec | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mining | HVAC | Early | heat pump | 12,707 | 1.1% | 0.03 | 12 | \$398 | 81% | 0.19 |
| FE-Penelec | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mining | HVAC | New | heat pump | 12,707 | 1.0% | 0.03 | 12 | \$243 | 81% | 0.28 |
| FE-Penelec | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mining | HVAC | New | heat pump | 12,707 | 0.8% | 0.02 | 12 | \$85 | 81% | 0.58 |
| FE-Penelec | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mining | HVAC | ROB | heat pump | 12,707 | 1.0% | 0.03 | 12 | \$243 | 81% | 0.28 |
| FE-Penelec | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mining | HVAC | ROB | heat pump | 12,707 | 0.8% | 0.02 | 12 | \$85 | 81% | 0.58 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 175 Tons | Mining | HVAC | Early | unit (ton) | 12,707 | 1.6% | 0.05 | 15 | \$1,173 | 89% | 0.12 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 175 Tons | Mining | HVAC | New | unit (ton) | 12,707 | 0.9% | 0.03 | 15 | \$390 | 89% | 0.20 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 175 Tons | Mining | HVAC | ROB | unit (ton) | 12,707 | 0.9% | 0.03 | 15 | \$390 | 89% | 0.20 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 300 Tons | Mining | HVAC | Early | unit (ton) | 12,707 | 1.4% | 0.04 | 15 | \$1,145 | 89% | 0.11 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 300 Tons | Mining | HVAC | New | unit (ton) | 12,707 | 1.0% | 0.03 | 15 | \$224 | 89% | 0.37 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 300 Tons | Mining | HVAC | ROB | unit (ton) | 12,707 | 1.4% | 0.04 | 15 | \$205 | 89% | 0.56 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 500 Tons | Mining | HVAC | Early | unit (ton) | 12,707 | 1.4% | 0.04 | 15 | \$1,356 | 89% | 0.09 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 500 Tons | Mining | HVAC | New | unit (ton) | 12,707 | 0.9% | 0.03 | 15 | \$571 | 89% | 0.13 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 500 Tons | Mining | HVAC | ROB | unit (ton) | 12,707 | 1.4% | 0.04 | 15 | \$517 | 89% | 0.23 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 600 Tons | Mining | HVAC | Early | unit (ton) | 12,707 | 1.4% | 0.04 | 15 | \$1,306 | 89% | 0.09 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 600 Tons | Mining | HVAC | New | unit (ton) | 12,707 | 0.9% | 0.03 | 15 | \$496 | 89% | 0.15 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 600 Tons | Mining | HVAC | ROB | unit (ton) | 12,707 | 1.4% | 0.04 | 15 | \$449 | 89% | 0.26 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 100 Tons | Mining | HVAC | Early | unit (ton) | 12,707 | 1.8% | 0.05 | 15 | \$1,407 | 89% | 0.11 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|---------|----------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 100 Tons | Mining | HVAC | New | unit (ton) | 12,707 | 0.5% | 0.02 | 15 | \$871 | 89% | 0.05 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 100 Tons | Mining | HVAC | ROB | unit (ton) | 12,707 | 1.8% | 0.05 | 15 | \$677 | 89% | 0.23 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 175 Tons | Mining | HVAC | Early | unit (ton) | 12,707 | 2.1% | 0.06 | 15 | \$1,294 | 89% | 0.14 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 175 Tons | Mining | HVAC | New | unit (ton) | 12,707 | 0.8% | 0.02 | 15 | \$519 | 89% | 0.13 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 175 Tons | Mining | HVAC | ROB | unit (ton) | 12,707 | 0.8% | 0.02 | 15 | \$519 | 89% | 0.13 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 300 Tons | Mining | HVAC | Early | unit (ton) | 12,707 | 2.4% | 0.07 | 15 | \$1,097 | 89% | 0.19 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 300 Tons | Mining | HVAC | New | unit (ton) | 12,707 | 0.9% | 0.03 | 15 | \$276 | 89% | 0.27 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 300 Tons | Mining | HVAC | ROB | unit (ton) | 12,707 | 2.4% | 0.07 | 15 | \$197 | 89% | 0.95 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 50 Tons | Mining | HVAC | Early | unit (ton) | 12,707 | 1.8% | 0.05 | 15 | \$1,086 | 89% | 0.14 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 50 Tons | Mining | HVAC | New | unit (ton) | 12,707 | 0.7% | 0.02 | 15 | \$304 | 89% | 0.19 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 50 Tons | Mining | HVAC | ROB | unit (ton) | 12,707 | 1.8% | 0.05 | 15 | \$241 | 89% | 0.61 |
| FE-Penelec | HVAC Diagnostic/Air Conditioner Tune Up | Mining | HVAC | Existing | building | 27,020 | 2.9% | 0.16 | 5 | \$287 | 55% | 0.61 |
| FE-Penelec | HVAC Diagnostic/Air Conditioner Tune Up | Mining | HVAC | New | building | 27,020 | 0.6% | 0.06 | 5 | \$172 | 51% | 0.29 |
| FE-Penelec | Outside Air Economizer | Mining | HVAC | Existing | building | 27,020 | 1.1% | 0.08 | 10 | \$99,276 | 82% | 0.00 |
| FE-Penelec | Outside Air Economizer | Mining | HVAC | New | building | 27,020 | 1.1% | 0.08 | 10 | \$99,276 | 82% | 0.00 |
| FE-Penelec | Room AC (with louvered sides) | Mining | HVAC | Early | unit (ton) | 12,707 | 7.7% | 0.22 | 9 | \$996 | 78% | 0.41 |
| FE-Penelec | Room AC (with louvered sides) | Mining | HVAC | New | unit (ton) | 12,707 | 2.6% | 0.07 | 9 | \$55 | 78% | 1.88 |
| FE-Penelec | Room AC (with louvered sides) | Mining | HVAC | ROB | unit (ton) | 12,707 | 2.6% | 0.07 | 9 | \$55 | 78% | 1.88 |
| FE-Penelec | Variable Refrigerant Flow Heat Pump | Mining | HVAC | New | measure | 12,707 | 0.1% | 0.00 | 13 | \$94 | 43% | 0.09 |
| FE-Penelec | Variable Refrigerant Flow Heat Pump | Mining | HVAC | ROB | measure | 12,707 | 0.1% | 0.00 | 13 | \$94 | 43% | 0.09 |
| FE-Penelec | VFD on Cooling Tower Fan | Mining | HVAC | Early | motor | 12,707 | 21% | 0.80 | 15 | \$587 | 15% | 2.54 |
| FE-Penelec | VFD on Cooling Tower Fan | Mining | HVAC | New | motor | 12,707 | 22% | 0.80 | 15 | \$598 | 15% | 2.52 |
| FE-Penelec | VFD on Cooling Tower Fan | Mining | HVAC | ROB | motor | 12,707 | 22% | 0.80 | 15 | \$598 | 15% | 2.52 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Mining | HVAC | Existing | building | 27,020 | 19% | 1.29 | 15 | \$19,221 | 26% | 0.18 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Mining | HVAC | New | building | 27,020 | 0.6% | 0.04 | 15 | \$14,743 | 94% | 0.01 |
| FE-Penelec | Water Source Heat Pump (4 ton) | Mining | HVAC | Early | heat pump | 12,707 | 1.5% | 0.04 | 15 | \$2,160 | 28% | 0.06 |
| FE-Penelec | Water Source Heat Pump (4 ton) | Mining | HVAC | New | heat pump | 12,707 | 1.1% | 0.03 | 15 | \$1,053 | 28% | 0.09 |
| FE-Penelec | Water Source Heat Pump (4 ton) | Mining | HVAC | ROB | heat pump | 12,707 | 1.1% | 0.03 | 15 | \$1,053 | 28% | 0.09 |
| FE-Penelec | Efficient Metal Halide (High Bay) | Mining | Lighting | Early | end use | 10,324 | 42% | 0.00 | 9 | \$1,613 | 53% | 0.76 |
| FE-Penelec | Efficient Metal Halide (High Bay) | Mining | Lighting | New | end use | 10,324 | 41% | 0.00 | 13 | \$43,089 | 61% | 0.05 |
| FE-Penelec | Efficient Metal Halide (High Bay) | Mining | Lighting | ROB | end use | 10,324 | 41% | 0.00 | 13 | \$32,931 | 61% | 0.06 |
| FE-Penelec | Induction (High Bay) | Mining | Lighting | Early | end use | 10,324 | 94% | 0.00 | 13 | \$4,800 | 95% | 0.82 |
| FE-Penelec | Induction (High Bay) | Mining | Lighting | New | end use | 10,324 | 94% | 0.00 | 13 | \$4,494 | 95% | 0.87 |
| FE-Penelec | Induction (High Bay) | Mining | Lighting | ROB | end use | 10,324 | 94% | 0.00 | 13 | \$3,416 | 95% | 1.10 |
| FE-Penelec | LED (High Bay) | Mining | Lighting | Early | end use | 10,324 | 69% | 0.00 | 14 | \$5,650 | 95% | 0.57 |
| FE-Penelec | LED (High Bay) | Mining | Lighting | New | end use | 10,324 | 55% | 0.00 | 14 | \$6,272 | 95% | 0.42 |
| FE-Penelec | LED (High Bay) | Mining | Lighting | ROB | end use | 10,324 | 59% | 0.00 | 14 | \$4,132 | 95% | 0.66 |
| FE-Penelec | Lighting Controls | Mining | Lighting | Existing | end use | 10,324 | 20% | 0.00 | 6 | \$38,702 | 16% | 0.01 |
| FE-Penelec | Lighting Controls | Mining | Lighting | New | end use | 10,324 | 12% | 0.00 | 10 | \$51,487 | 11% | 0.01 |
| FE-Penelec | Linear Fluorescent (High Bay) | Mining | Lighting | Early | end use | 10,324 | 17% | 0.00 | 14 | \$1,181 | 98% | 0.66 |
| FE-Penelec | Linear Fluorescent (High Bay) | Mining | Lighting | New | end use | 10,324 | 13% | 0.00 | 14 | \$375 | 91% | 1.39 |
| FE-Penelec | Linear Fluorescent (High Bay) | Mining | Lighting | ROB | end use | 10,324 | 13% | 0.00 | 14 | \$240 | 91% | 2.01 |
| FE-Penelec | Metal Halide (High Bay) | Mining | Lighting | Early | end use | 10,324 | 62% | 0.00 | 13 | \$7,097 | 38% | 0.39 |
| FE-Penelec | Metal Halide (High Bay) | Mining | Lighting | New | end use | 10,324 | 73% | 0.00 | 13 | \$1,697 | 38% | 1.56 |
| FE-Penelec | Metal Halide (High Bay) | Mining | Lighting | ROB | end use | 10,324 | 73% | 0.00 | 13 | \$1,290 | 38% | 1.91 |
| FE-Penelec | Screw Base CFL | Mining | Lighting | Early | end use | 10,324 | 80% | 0.00 | 7 | \$2,805 | 17% | 0.66 |
| FE-Penelec | Screw Base CFL | Mining | Lighting | New | end use | 10,324 | 73% | 0.00 | 9 | \$2,292 | 18% | 0.90 |
| FE-Penelec | Screw Base CFL | Mining | Lighting | ROB | end use | 10,324 | 73% | 0.00 | 9 | \$1,919 | 17% | 1.03 |
| FE-Penelec | Screw Base LED | Mining | Lighting | Early | end use | 10,324 | 76% | 0.00 | 9 | \$1,721 | 21% | 1.21 |
| FE-Penelec | Screw Base LED | Mining | Lighting | New | end use | 10,324 | 77% | 0.00 | 9 | \$959 | 20% | 1.84 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|--|---------|----------|----------|---------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Screw Base LED | Mining | Lighting | ROB | end use | 10,324 | 77% | 0.00 | 9 | \$761 | 21% | 2.11 |
| FE-Penelec | T8 High Performance Linear Florescent | Mining | Lighting | Early | end use | 10,324 | 36% | 0.00 | 14 | \$988 | 71% | 1.48 |
| FE-Penelec | T8 High Performance Linear Florescent | Mining | Lighting | New | end use | 10,324 | 26% | 0.00 | 14 | \$353 | 76% | 2.49 |
| FE-Penelec | T8 High Performance Linear Florescent | Mining | Lighting | ROB | end use | 10,324 | 26% | 0.00 | 14 | \$269 | 76% | 2.94 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 1-15 HP | Mining | Motors | Early | end use | 17,156 | 0.9% | 0.02 | 15 | \$262 | 81% | 0.35 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 1-15 HP | Mining | Motors | New | end use | 17,156 | 0.9% | 0.02 | 15 | \$262 | 81% | 0.34 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 1-15 HP | Mining | Motors | ROB | end use | 17,156 | 0.9% | 0.02 | 15 | \$262 | 81% | 0.35 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 125-200 HP | Mining | Motors | Early | end use | 17,156 | 0.7% | 0.02 | 15 | \$159 | 73% | 0.45 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 125-200 HP | Mining | Motors | New | end use | 17,156 | 0.8% | 0.02 | 15 | \$159 | 73% | 0.46 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 125-200 HP | Mining | Motors | ROB | end use | 17,156 | 0.8% | 0.02 | 15 | \$159 | 73% | 0.46 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 20-40 HP | Mining | Motors | Early | end use | 17,156 | 0.5% | 0.01 | 15 | \$61 | 81% | 0.70 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 20-40 HP | Mining | Motors | New | end use | 17,156 | 0.5% | 0.01 | 15 | \$61 | 81% | 0.71 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 20-40 HP | Mining | Motors | ROB | end use | 17,156 | 0.5% | 0.01 | 15 | \$61 | 81% | 0.71 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 250-500 HP | Mining | Motors | Early | end use | 17,156 | 0.4% | 0.01 | 15 | \$20 | 73% | 1.66 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 250-500 HP | Mining | Motors | New | end use | 17,156 | 0.4% | 0.01 | 15 | \$20 | 73% | 1.65 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 250-500 HP | Mining | Motors | ROB | end use | 17,156 | 0.4% | 0.01 | 15 | \$20 | 73% | 1.66 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 50-100 HP | Mining | Motors | Early | end use | 17,156 | 0.9% | 0.02 | 15 | \$30 | 47% | 2.29 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 50-100 HP | Mining | Motors | New | end use | 17,156 | 0.9% | 0.02 | 15 | \$30 | 47% | 2.30 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 50-100 HP | Mining | Motors | ROB | end use | 17,156 | 0.9% | 0.02 | 15 | \$30 | 47% | 2.30 |
| FE-Penelec | HE Motors | Mining | Motors | Early | end use | 17,156 | 2.0% | 0.05 | 15 | \$102 | 38% | 1.66 |
| FE-Penelec | HE Motors | Mining | Motors | New | end use | 17,156 | 2.0% | 0.05 | 15 | \$102 | 38% | 1.66 |
| FE-Penelec | HE Motors | Mining | Motors | ROB | end use | 17,156 | 2.0% | 0.05 | 15 | \$102 | 38% | 1.66 |
| FE-Penelec | Improved Controls - Motors | Mining | Motors | Existing | end use | 17,156 | 4.0% | 0.10 | 10 | \$75 | 13% | 2.35 |
| FE-Penelec | Improved Controls - Motors | Mining | Motors | New | end use | 17,156 | 4.0% | 0.10 | 10 | \$75 | 13% | 2.35 |
| FE-Penelec | Material Handling | Mining | Motors | Early | end use | 17,156 | 18% | 0.45 | 10 | \$829 | 77% | 1.27 |
| FE-Penelec | Material Handling | Mining | Motors | New | end use | 17,156 | 18% | 0.45 | 10 | \$829 | 77% | 1.27 |
| FE-Penelec | Material Handling | Mining | Motors | ROB | end use | 17,156 | 18% | 0.45 | 10 | \$829 | 77% | 1.27 |
| FE-Penelec | Material Handling VFD | Mining | Motors | Early | end use | 17,156 | 16% | 0.40 | 10 | \$574 | 77% | 1.52 |
| FE-Penelec | Material Handling VFD | Mining | Motors | New | end use | 17,156 | 16% | 0.40 | 10 | \$574 | 77% | 1.52 |
| FE-Penelec | Material Handling VFD | Mining | Motors | ROB | end use | 17,156 | 16% | 0.40 | 10 | \$574 | 77% | 1.52 |
| FE-Penelec | Motor Management Plan | Mining | Motors | Existing | end use | 17,156 | 2.9% | 0.07 | 10 | \$35 | 73% | 3.01 |
| FE-Penelec | Motor Management Plan | Mining | Motors | New | end use | 17,156 | 2.9% | 0.07 | 10 | \$35 | 73% | 3.00 |
| FE-Penelec | Motors Other | Mining | Motors | Existing | end use | 17,156 | 1.1% | 0.03 | 15 | \$3.4 | 83% | 6.77 |
| FE-Penelec | Motors Other | Mining | Motors | New | end use | 17,156 | 1.1% | 0.03 | 15 | \$3.4 | 83% | 6.77 |
| FE-Penelec | Motors: Rewind 101-200 HP | Mining | Motors | Existing | end use | 17,156 | 0.6% | 0.01 | 10 | \$22 | 27% | 1.44 |
| FE-Penelec | Motors: Rewind 101-200 HP | Mining | Motors | New | end use | 17,156 | 0.6% | 0.01 | 10 | \$22 | 27% | 1.44 |
| FE-Penelec | Motors: Rewind 201-500 HP | Mining | Motors | Existing | end use | 17,156 | 0.6% | 0.01 | 8 | \$14 | 27% | 1.67 |
| FE-Penelec | Motors: Rewind 201-500 HP | Mining | Motors | New | end use | 17,156 | 0.6% | 0.01 | 8 | \$14 | 27% | 1.66 |
| FE-Penelec | Motors: Rewind 20-50 HP | Mining | Motors | Existing | end use | 17,156 | 1.0% | 0.03 | 11 | \$64 | 42% | 1.08 |
| FE-Penelec | Motors: Rewind 20-50 HP | Mining | Motors | New | end use | 17,156 | 1.0% | 0.03 | 11 | \$64 | 42% | 1.08 |
| FE-Penelec | Motors: Rewind 500+ HP | Mining | Motors | Existing | end use | 17,156 | 0.6% | 0.01 | 8 | \$9.7 | 11% | 2.08 |
| FE-Penelec | Motors: Rewind 500+ HP | Mining | Motors | New | end use | 17,156 | 0.6% | 0.01 | 8 | \$9.7 | 11% | 2.08 |
| FE-Penelec | Motors: Rewind 51-100 HP | Mining | Motors | Existing | end use | 17,156 | 0.6% | 0.01 | 9 | \$31 | 42% | 1.05 |
| FE-Penelec | Motors: Rewind 51-100 HP | Mining | Motors | New | end use | 17,156 | 0.6% | 0.01 | 9 | \$31 | 42% | 1.05 |
| FE-Penelec | Switch from Belt drive to Direct Drive | Mining | Motors | Early | end use | 17,156 | 7.5% | 0.18 | 12 | \$275 | 30% | 1.72 |
| FE-Penelec | Switch from Belt drive to Direct Drive | Mining | Motors | New | end use | 17,156 | 7.5% | 0.18 | 12 | \$275 | 30% | 1.72 |
| FE-Penelec | Switch from Belt drive to Direct Drive | Mining | Motors | ROB | end use | 17,156 | 7.5% | 0.18 | 12 | \$275 | 30% | 1.72 |
| FE-Penelec | Synchronous Belts | Mining | Motors | Early | end use | 17,156 | 1.2% | 0.03 | 10 | \$25 | 30% | 2.15 |
| FE-Penelec | Synchronous Belts | Mining | Motors | New | end use | 17,156 | 1.2% | 0.03 | 10 | \$25 | 30% | 2.15 |
| FE-Penelec | Synchronous Belts | Mining | Motors | ROB | end use | 17,156 | 1.2% | 0.03 | 10 | \$25 | 30% | 2.15 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|---------------|------------------------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Air Compressor Demand Reduction | Mining | Process Air Compressor | Existing | end use | 382 | 26% | 0.01 | 10 | \$5.7 | 52% | 3.24 |
| FE-Penelec | Air Compressor Demand Reduction | Mining | Process Air Compressor | New | end use | 382 | 26% | 0.01 | 10 | \$5.7 | 52% | 3.24 |
| FE-Penelec | Cooling Tower Optimization | Mining | Process Cooling | Existing | building | 13,233 | 20% | 1.10 | 10 | \$81 | 15% | 5.41 |
| FE-Penelec | VFD on Cooling Tower Fan | Mining | Process Cooling | Early | motor | 13,233 | 21% | 0.83 | 15 | \$611 | 20% | 2.39 |
| FE-Penelec | VFD on Cooling Tower Fan | Mining | Process Cooling | New | motor | 13,233 | 22% | 0.83 | 15 | \$623 | 20% | 2.37 |
| FE-Penelec | VFD on Cooling Tower Fan | Mining | Process Cooling | ROB | motor | 13,233 | 22% | 0.83 | 15 | \$623 | 20% | 2.37 |
| FE-Penelec | Cooling Tower Optimization | Mining | Process Refrigeration | Existing | building | 6,798 | 20% | 0.56 | 10 | \$42 | 15% | 5.41 |
| FE-Penelec | VFD on Cooling Tower Fan | Mining | Process Refrigeration | Early | motor | 6,798 | 21% | 0.43 | 15 | \$314 | 20% | 2.39 |
| FE-Penelec | VFD on Cooling Tower Fan | Mining | Process Refrigeration | New | motor | 6,798 | 22% | 0.43 | 15 | \$320 | 20% | 2.37 |
| FE-Penelec | VFD on Cooling Tower Fan | Mining | Process Refrigeration | ROB | motor | 6,798 | 22% | 0.43 | 15 | \$320 | 20% | 2.37 |
| FE-Penelec | Agricultural Exhaust Fans (Rate 21 CFM) | Other Non-Mfg | Fans | Early | end use | 9,031 | 5.0% | 0.05 | 15 | \$115 | 11% | 1.88 |
| FE-Penelec | Agricultural Exhaust Fans (Rate 21 CFM) | Other Non-Mfg | Fans | New | end use | 9,031 | 5.0% | 0.05 | 15 | \$115 | 11% | 1.88 |
| FE-Penelec | Agricultural Exhaust Fans (Rate 21 CFM) | Other Non-Mfg | Fans | ROB | end use | 9,031 | 5.0% | 0.05 | 15 | \$115 | 11% | 1.87 |
| FE-Penelec | Circulating Fans | Other Non-Mfg | Fans | Early | end use | 9,031 | 5.0% | 0.05 | 10 | \$55 | 53% | 2.23 |
| FE-Penelec | Circulating Fans | Other Non-Mfg | Fans | New | end use | 9,031 | 5.0% | 0.05 | 10 | \$55 | 53% | 2.23 |
| FE-Penelec | Circulating Fans | Other Non-Mfg | Fans | ROB | end use | 9,031 | 5.0% | 0.05 | 10 | \$55 | 53% | 2.23 |
| FE-Penelec | Facility Energy Management | Other Non-Mfg | Fans | Existing | end use | 9,031 | 1.9% | 0.02 | 2 | \$3.5 | 61% | 1.16 |
| FE-Penelec | Facility Energy Management | Other Non-Mfg | Fans | New | end use | 9,031 | 1.9% | 0.02 | 2 | \$3.5 | 61% | 1.16 |
| FE-Penelec | Fan Equipment Upgrade | Other Non-Mfg | Fans | Early | end use | 9,031 | 35% | 0.38 | 10 | \$271 | 53% | 2.74 |
| FE-Penelec | Fan Equipment Upgrade | Other Non-Mfg | Fans | New | end use | 9,031 | 35% | 0.38 | 10 | \$271 | 53% | 2.74 |
| FE-Penelec | Fan Equipment Upgrade | Other Non-Mfg | Fans | ROB | end use | 9,031 | 35% | 0.38 | 10 | \$271 | 53% | 2.74 |
| FE-Penelec | Fan System Optimization | Other Non-Mfg | Fans | Existing | end use | 9,031 | 7.3% | 0.08 | 10 | \$123 | 66% | 1.67 |
| FE-Penelec | Fan System Optimization | Other Non-Mfg | Fans | New | end use | 9,031 | 7.3% | 0.08 | 10 | \$123 | 66% | 1.67 |
| FE-Penelec | HE Motors | Other Non-Mfg | Fans | Early | end use | 9,031 | 2.0% | 0.02 | 15 | \$54 | 61% | 1.68 |
| FE-Penelec | HE Motors | Other Non-Mfg | Fans | New | end use | 9,031 | 2.0% | 0.02 | 15 | \$54 | 61% | 1.68 |
| FE-Penelec | HE Motors | Other Non-Mfg | Fans | ROB | end use | 9,031 | 2.0% | 0.02 | 15 | \$54 | 61% | 1.68 |
| FE-Penelec | High Volume Low Speed Fans | Other Non-Mfg | Fans | Early | end use | 9,031 | 47% | 0.50 | 15 | \$6,789 | 53% | 0.36 |
| FE-Penelec | High Volume Low Speed Fans | Other Non-Mfg | Fans | New | end use | 9,031 | 47% | 0.50 | 15 | \$6,789 | 53% | 0.36 |
| FE-Penelec | High Volume Low Speed Fans | Other Non-Mfg | Fans | ROB | end use | 9,031 | 47% | 0.50 | 15 | \$6,789 | 53% | 0.36 |
| FE-Penelec | Improved Controls - Fans | Other Non-Mfg | Fans | Existing | end use | 9,031 | 7.1% | 0.08 | 10 | \$35 | 69% | 3.42 |
| FE-Penelec | Improved Controls - Fans | Other Non-Mfg | Fans | New | end use | 9,031 | 7.1% | 0.08 | 10 | \$35 | 69% | 3.42 |
| FE-Penelec | Properly Sized Fans | Other Non-Mfg | Fans | Early | end use | 9,031 | 13% | 0.14 | 10 | \$185 | 32% | 1.89 |
| FE-Penelec | Properly Sized Fans | Other Non-Mfg | Fans | New | end use | 9,031 | 13% | 0.14 | 10 | \$185 | 32% | 1.89 |
| FE-Penelec | Properly Sized Fans | Other Non-Mfg | Fans | ROB | end use | 9,031 | 13% | 0.14 | 10 | \$185 | 32% | 1.89 |
| FE-Penelec | Synchronous Belts | Other Non-Mfg | Fans | Early | end use | 9,031 | 1.2% | 0.01 | 10 | \$13 | 32% | 2.17 |
| FE-Penelec | Synchronous Belts | Other Non-Mfg | Fans | New | end use | 9,031 | 1.2% | 0.01 | 10 | \$13 | 32% | 2.17 |
| FE-Penelec | Synchronous Belts | Other Non-Mfg | Fans | ROB | end use | 9,031 | 1.2% | 0.01 | 10 | \$13 | 32% | 2.17 |
| FE-Penelec | <65k BTU/hr 14 SEER Air Conditioner | Other Non-Mfg | HVAC | Early | unit (ton) | 30,838 | 9.2% | 0.73 | 15 | \$5,620 | 28% | 0.34 |
| FE-Penelec | <65k BTU/hr 14 SEER Air Conditioner | Other Non-Mfg | HVAC | New | unit (ton) | 30,838 | 4.1% | 0.33 | 15 | \$1,362 | 28% | 0.62 |
| FE-Penelec | <65k BTU/hr 14 SEER Air Conditioner | Other Non-Mfg | HVAC | ROB | unit (ton) | 30,838 | 4.1% | 0.33 | 15 | \$1,362 | 28% | 0.62 |
| FE-Penelec | <65k BTU/hr 15 SEER Air Conditioner | Other Non-Mfg | HVAC | Early | unit (ton) | 30,838 | 12% | 0.99 | 15 | \$6,626 | 28% | 0.39 |
| FE-Penelec | <65k BTU/hr 15 SEER Air Conditioner | Other Non-Mfg | HVAC | New | unit (ton) | 30,838 | 7.7% | 0.62 | 15 | \$2,868 | 28% | 0.55 |
| FE-Penelec | <65k BTU/hr 15 SEER Air Conditioner | Other Non-Mfg | HVAC | ROB | unit (ton) | 30,838 | 7.7% | 0.62 | 15 | \$2,868 | 28% | 0.55 |
| FE-Penelec | <65k BTU/hr 16 SEER Air Conditioner | Other Non-Mfg | HVAC | Early | unit (ton) | 30,838 | 15% | 1.22 | 15 | \$7,631 | 29% | 0.42 |
| FE-Penelec | <65k BTU/hr 16 SEER Air Conditioner | Other Non-Mfg | HVAC | New | unit (ton) | 30,838 | 11% | 0.87 | 15 | \$4,374 | 29% | 0.51 |
| FE-Penelec | <65k BTU/hr 16 SEER Air Conditioner | Other Non-Mfg | HVAC | ROB | unit (ton) | 30,838 | 11% | 0.87 | 15 | \$4,374 | 29% | 0.51 |
| FE-Penelec | >760k min 10.2 EER Air Conditioner | Other Non-Mfg | HVAC | Early | unit (ton) | 30,838 | 2.1% | 0.17 | 15 | \$9,787 | 35% | 0.05 |
| FE-Penelec | >760k min 10.2 EER Air Conditioner | Other Non-Mfg | HVAC | New | unit (ton) | 30,838 | 2.8% | 0.23 | 15 | \$885 | 35% | 0.65 |
| FE-Penelec | >760k min 10.2 EER Air Conditioner | Other Non-Mfg | HVAC | ROB | unit (ton) | 30,838 | 2.8% | 0.23 | 15 | \$885 | 35% | 0.65 |
| FE-Penelec | 135-240k min 12 EER Air Conditioner | Other Non-Mfg | HVAC | Early | unit (ton) | 30,838 | 10% | 0.84 | 15 | \$10,598 | 35% | 0.21 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|---------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | 135-240k min 12 EER Air Conditioner | Other Non-Mfg | HVAC | New | unit (ton) | 30,838 | 5.8% | 0.46 | 15 | \$1,251 | 35% | 0.91 |
| FE-Penelec | 135-240k min 12 EER Air Conditioner | Other Non-Mfg | HVAC | ROB | unit (ton) | 30,838 | 5.8% | 0.46 | 15 | \$1,251 | 35% | 0.91 |
| FE-Penelec | 240k-760k min 11 EER Air Conditioner | Other Non-Mfg | HVAC | Early | unit (ton) | 30,838 | 5.2% | 0.42 | 15 | \$9,793 | 35% | 0.11 |
| FE-Penelec | 240k-760k min 11 EER Air Conditioner | Other Non-Mfg | HVAC | New | unit (ton) | 30,838 | 5.3% | 0.43 | 15 | \$1,049 | 35% | 0.99 |
| FE-Penelec | 240k-760k min 11 EER Air Conditioner | Other Non-Mfg | HVAC | ROB | unit (ton) | 30,838 | 5.3% | 0.43 | 15 | \$1,049 | 35% | 0.99 |
| FE-Penelec | 65k-135k BTU/hr 12 EER Air Conditioner | Other Non-Mfg | HVAC | Early | unit (ton) | 30,838 | 9.7% | 0.78 | 15 | \$10,851 | 35% | 0.19 |
| FE-Penelec | 65k-135k BTU/hr 12 EER Air Conditioner | Other Non-Mfg | HVAC | New | unit (ton) | 30,838 | 3.8% | 0.31 | 15 | \$1,548 | 35% | 0.51 |
| FE-Penelec | 65k-135k BTU/hr 12 EER Air Conditioner | Other Non-Mfg | HVAC | ROB | unit (ton) | 30,838 | 3.8% | 0.31 | 15 | \$1,548 | 35% | 0.51 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Other Non-Mfg | HVAC | Existing | building | 33,510 | 5.9% | 0.50 | 15 | \$101,531 | 71% | 0.01 |
| FE-Penelec | Ceiling Insualtions (Going upto R 20) | Other Non-Mfg | HVAC | New | building | 33,510 | 3.7% | 0.31 | 15 | \$96,508 | 94% | 0.01 |
| FE-Penelec | Chiller Tuneup/Diagnostics | Other Non-Mfg | HVAC | Existing | building | 33,510 | 8.0% | 0.98 | 10 | \$85,567 | 59% | 0.02 |
| FE-Penelec | Chiller Tuneup/Diagnostics | Other Non-Mfg | HVAC | New | building | 33,510 | 8.0% | 0.98 | 10 | \$85,567 | 59% | 0.02 |
| FE-Penelec | Cooling Tower Optimization | Other Non-Mfg | HVAC | Existing | building | 33,510 | 20% | 2.40 | 10 | \$206 | 69% | 5.43 |
| FE-Penelec | Duct Insulation, Add R8 | Other Non-Mfg | HVAC | Existing | building | 33,510 | 1.5% | 0.11 | 15 | \$266 | 18% | 1.15 |
| FE-Penelec | Duct Insulation, Add R8 | Other Non-Mfg | HVAC | New | building | 33,510 | 1.5% | 0.11 | 15 | \$266 | 9% | 1.15 |
| FE-Penelec | Ductless Heat Pump | Other Non-Mfg | HVAC | Early | heat pump | 30,838 | 0.8% | 0.06 | 15 | \$2,438 | 83% | 0.07 |
| FE-Penelec | Ductless Heat Pump | Other Non-Mfg | HVAC | New | heat pump | 30,838 | 0.4% | 0.03 | 15 | \$708 | 83% | 0.13 |
| FE-Penelec | Ductless Heat Pump | Other Non-Mfg | HVAC | ROB | heat pump | 30,838 | 0.4% | 0.03 | 15 | \$708 | 83% | 0.13 |
| FE-Penelec | DX Coil Cleaning | Other Non-Mfg | HVAC | Existing | building | 33,510 | 13% | 1.54 | 1 | \$321 | 73% | 0.51 |
| FE-Penelec | DX Coil Cleaning | Other Non-Mfg | HVAC | New | building | 33,510 | 13% | 1.54 | 1 | \$321 | 73% | 0.51 |
| FE-Penelec | Efficient Unit Heating System | Other Non-Mfg | HVAC | Early | heater | 30,838 | 6.9% | 0.02 | 15 | \$1,665 | 83% | 0.64 |
| FE-Penelec | Efficient Unit Heating System | Other Non-Mfg | HVAC | New | heater | 30,838 | 4.0% | 0.01 | 15 | \$1,136 | 83% | 0.54 |
| FE-Penelec | Efficient Unit Heating System | Other Non-Mfg | HVAC | ROB | heater | 30,838 | 4.0% | 0.01 | 15 | \$1,136 | 83% | 0.54 |
| FE-Penelec | Ground Source Heat Pump (Closed Loop) | Other Non-Mfg | HVAC | Early | heat pump | 30,838 | 1.3% | 0.09 | 15 | \$5,062 | 19% | 0.05 |
| FE-Penelec | Ground Source Heat Pump (Closed Loop) | Other Non-Mfg | HVAC | New | heat pump | 30,838 | 1.0% | 0.07 | 15 | \$1,999 | 19% | 0.11 |
| FE-Penelec | Ground Source Heat Pump (Closed Loop) | Other Non-Mfg | HVAC | ROB | heat pump | 30,838 | 1.0% | 0.07 | 15 | \$1,999 | 19% | 0.11 |
| FE-Penelec | Ground Source Heat Pump (Open Loop) | Other Non-Mfg | HVAC | Early | heat pump | 30,838 | 1.3% | 0.09 | 15 | \$3,242 | 19% | 0.08 |
| FE-Penelec | Ground Source Heat Pump (Open Loop) | Other Non-Mfg | HVAC | New | heat pump | 30,838 | 1.0% | 0.07 | 15 | \$69 | 19% | 2.35 |
| FE-Penelec | Ground Source Heat Pump (Open Loop) | Other Non-Mfg | HVAC | ROB | heat pump | 30,838 | 1.0% | 0.07 | 15 | \$69 | 19% | 2.35 |
| FE-Penelec | HE Air Cooled Chiller, 100 Tons | Other Non-Mfg | HVAC | Early | unit (ton) | 30,838 | 1.5% | 0.10 | 15 | \$35,873 | 89% | 0.01 |
| FE-Penelec | HE Air Cooled Chiller, 100 Tons | Other Non-Mfg | HVAC | New | unit (ton) | 30,838 | 0.4% | 0.03 | 15 | \$5,226 | 89% | 0.02 |
| FE-Penelec | HE Air Cooled Chiller, 100 Tons | Other Non-Mfg | HVAC | ROB | unit (ton) | 30,838 | 0.4% | 0.03 | 15 | \$5,226 | 89% | 0.02 |
| FE-Penelec | HE Air Cooled Chiller, 150 Tons | Other Non-Mfg | HVAC | Early | unit (ton) | 30,838 | 1.4% | 0.10 | 15 | \$30,986 | 89% | 0.01 |
| FE-Penelec | HE Air Cooled Chiller, 150 Tons | Other Non-Mfg | HVAC | New | unit (ton) | 30,838 | 0.3% | 0.02 | 15 | \$2,566 | 89% | 0.02 |
| FE-Penelec | HE Air Cooled Chiller, 150 Tons | Other Non-Mfg | HVAC | ROB | unit (ton) | 30,838 | 0.3% | 0.02 | 15 | \$2,566 | 89% | 0.02 |
| FE-Penelec | HE Air Source Heat Pump (12 EER, 3.6 COP) | Other Non-Mfg | HVAC | Early | heat pump | 30,838 | 1.4% | 0.09 | 12 | \$1,322 | 81% | 0.17 |
| FE-Penelec | HE Air Source Heat Pump (12 EER, 3.6 COP) | Other Non-Mfg | HVAC | Early | heat pump | 30,838 | 1.1% | 0.08 | 12 | \$965 | 81% | 0.19 |
| FE-Penelec | HE Air Source Heat Pump (12 EER, 3.6 COP) | Other Non-Mfg | HVAC | New | heat pump | 30,838 | 1.0% | 0.07 | 12 | \$590 | 81% | 0.28 |
| FE-Penelec | HE Air Source Heat Pump (12 EER, 3.6 COP) | Other Non-Mfg | HVAC | New | heat pump | 30,838 | 0.8% | 0.05 | 12 | \$206 | 81% | 0.58 |
| FE-Penelec | HE Air Source Heat Pump (12 EER, 3.6 COP) | Other Non-Mfg | HVAC | ROB | heat pump | 30,838 | 1.0% | 0.07 | 12 | \$590 | 81% | 0.28 |
| FE-Penelec | HE Air Source Heat Pump (12 EER, 3.6 COP) | Other Non-Mfg | HVAC | ROB | heat pump | 30,838 | 0.8% | 0.05 | 12 | \$206 | 81% | 0.58 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 175 Tons | Other Non-Mfg | HVAC | Early | unit (ton) | 30,838 | 1.6% | 0.11 | 15 | \$2,846 | 89% | 0.12 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 175 Tons | Other Non-Mfg | HVAC | New | unit (ton) | 30,838 | 0.9% | 0.06 | 15 | \$947 | 89% | 0.20 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 175 Tons | Other Non-Mfg | HVAC | ROB | unit (ton) | 30,838 | 0.9% | 0.06 | 15 | \$947 | 89% | 0.20 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 300 Tons | Other Non-Mfg | HVAC | Early | unit (ton) | 30,838 | 1.4% | 0.10 | 15 | \$2,780 | 89% | 0.11 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 300 Tons | Other Non-Mfg | HVAC | New | unit (ton) | 30,838 | 1.0% | 0.07 | 15 | \$543 | 89% | 0.37 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 300 Tons | Other Non-Mfg | HVAC | ROB | unit (ton) | 30,838 | 1.4% | 0.10 | 15 | \$499 | 89% | 0.56 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 500 Tons | Other Non-Mfg | HVAC | Early | unit (ton) | 30,838 | 1.4% | 0.10 | 15 | \$3,290 | 89% | 0.09 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 500 Tons | Other Non-Mfg | HVAC | New | unit (ton) | 30,838 | 0.9% | 0.06 | 15 | \$1,385 | 89% | 0.13 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 500 Tons | Other Non-Mfg | HVAC | ROB | unit (ton) | 30,838 | 1.4% | 0.10 | 15 | \$1,254 | 89% | 0.23 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---|---------------|----------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 600 Tons | Other Non-Mfg | HVAC | Early | unit (ton) | 30,838 | 1.4% | 0.10 | 15 | \$3,169 | 89% | 0.09 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 600 Tons | Other Non-Mfg | HVAC | New | unit (ton) | 30,838 | 0.9% | 0.06 | 15 | \$1,204 | 89% | 0.15 |
| FE-Penelec | HE Water Cooled Centrifugal Chiller, 600 Tons | Other Non-Mfg | HVAC | ROB | unit (ton) | 30,838 | 1.4% | 0.10 | 15 | \$1,090 | 89% | 0.26 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 100 Tons | Other Non-Mfg | HVAC | Early | unit (ton) | 30,838 | 1.8% | 0.12 | 15 | \$3,415 | 89% | 0.11 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 100 Tons | Other Non-Mfg | HVAC | New | unit (ton) | 30,838 | 0.5% | 0.04 | 15 | \$2,115 | 89% | 0.05 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 100 Tons | Other Non-Mfg | HVAC | ROB | unit (ton) | 30,838 | 1.8% | 0.12 | 15 | \$1,642 | 89% | 0.23 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 175 Tons | Other Non-Mfg | HVAC | Early | unit (ton) | 30,838 | 2.1% | 0.15 | 15 | \$3,141 | 89% | 0.14 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 175 Tons | Other Non-Mfg | HVAC | New | unit (ton) | 30,838 | 0.8% | 0.05 | 15 | \$1,260 | 89% | 0.13 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 175 Tons | Other Non-Mfg | HVAC | ROB | unit (ton) | 30,838 | 0.8% | 0.05 | 15 | \$1,260 | 89% | 0.13 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 300 Tons | Other Non-Mfg | HVAC | Early | unit (ton) | 30,838 | 2.4% | 0.17 | 15 | \$2,662 | 89% | 0.19 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 300 Tons | Other Non-Mfg | HVAC | New | unit (ton) | 30,838 | 0.9% | 0.06 | 15 | \$670 | 89% | 0.27 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 300 Tons | Other Non-Mfg | HVAC | ROB | unit (ton) | 30,838 | 2.4% | 0.17 | 15 | \$478 | 89% | 0.95 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 50 Tons | Other Non-Mfg | HVAC | Early | unit (ton) | 30,838 | 1.8% | 0.13 | 15 | \$2,635 | 89% | 0.14 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 50 Tons | Other Non-Mfg | HVAC | New | unit (ton) | 30,838 | 0.7% | 0.05 | 15 | \$738 | 89% | 0.19 |
| FE-Penelec | HE Water Cooled Reciprocating Chiller, 50 Tons | Other Non-Mfg | HVAC | ROB | unit (ton) | 30,838 | 1.8% | 0.13 | 15 | \$585 | 89% | 0.61 |
| FE-Penelec | Heat Reclaimer | Other Non-Mfg | HVAC | Existing | end use | 33,510 | 42% | 2.02 | 15 | \$1,917 | 15% | 3.05 |
| FE-Penelec | Heat Reclaimer | Other Non-Mfg | HVAC | New | end use | 33,510 | 42% | 2.02 | 15 | \$1,917 | 15% | 3.05 |
| FE-Penelec | Heat Recovery Ventilators | Other Non-Mfg | HVAC | Existing | end use | 33,510 | 4.1% | 0.20 | 10 | \$491 | 93% | 1.04 |
| FE-Penelec | Heat Recovery Ventilators | Other Non-Mfg | HVAC | New | end use | 33,510 | 4.1% | 0.20 | 10 | \$491 | 93% | 1.04 |
| FE-Penelec | HVAC Diagnostic/Air Conditioner Tune Up | Other Non-Mfg | HVAC | Existing | building | 33,510 | 2.9% | 0.20 | 5 | \$356 | 55% | 0.61 |
| FE-Penelec | HVAC Diagnostic/Air Conditioner Tune Up | Other Non-Mfg | HVAC | New | building | 33,510 | 0.6% | 0.08 | 5 | \$213 | 51% | 0.29 |
| FE-Penelec | Improved Controls - HVAC | Other Non-Mfg | HVAC | Existing | end use | 33,510 | 21% | 1.00 | 10 | \$352 | 76% | 3.68 |
| FE-Penelec | Improved Controls - HVAC | Other Non-Mfg | HVAC | New | end use | 33,510 | 21% | 1.00 | 10 | \$352 | 76% | 3.68 |
| FE-Penelec | Infrared Film for Greenhouses | Other Non-Mfg | HVAC | Existing | end use | 33,510 | 11% | 0.53 | 4 | \$778 | 5% | 0.74 |
| FE-Penelec | Infrared Film for Greenhouses | Other Non-Mfg | HVAC | New | end use | 33,510 | 11% | 0.53 | 4 | \$778 | 5% | 0.74 |
| FE-Penelec | Outside Air Economizer | Other Non-Mfg | HVAC | Existing | building | 33,510 | 1.1% | 0.09 | 10 | \$123,123 | 82% | 0.00 |
| FE-Penelec | Outside Air Economizer | Other Non-Mfg | HVAC | New | building | 33,510 | 1.1% | 0.09 | 10 | \$123,123 | 82% | 0.00 |
| FE-Penelec | Programmable Ventilation Controller | Other Non-Mfg | HVAC | Existing | end use | 33,510 | 0.1% | 0.00 | 10 | \$3.8 | 80% | 2.43 |
| FE-Penelec | Programmable Ventilation Controller | Other Non-Mfg | HVAC | New | end use | 33,510 | 0.1% | 0.00 | 10 | \$3.8 | 80% | 2.44 |
| FE-Penelec | Recommissioning | Other Non-Mfg | HVAC | Existing | end use | 33,510 | 5.0% | 0.24 | 10 | \$46 | 88% | 4.54 |
| FE-Penelec | Recommissioning | Other Non-Mfg | HVAC | New | end use | 33,510 | 5.0% | 0.24 | 10 | \$46 | 88% | 4.54 |
| FE-Penelec | Room AC (with louvered sides) | Other Non-Mfg | HVAC | Early | unit (ton) | 30,838 | 7.7% | 0.54 | 9 | \$2,418 | 78% | 0.41 |
| FE-Penelec | Room AC (with louvered sides) | Other Non-Mfg | HVAC | New | unit (ton) | 30,838 | 2.6% | 0.18 | 9 | \$132 | 78% | 1.88 |
| FE-Penelec | Room AC (with louvered sides) | Other Non-Mfg | HVAC | ROB | unit (ton) | 30,838 | 2.6% | 0.18 | 9 | \$132 | 78% | 1.88 |
| FE-Penelec | Variable Refrigerant Flow Heat Pump | Other Non-Mfg | HVAC | New | measure | 30,838 | 0.1% | 0.01 | 13 | \$227 | 43% | 0.09 |
| FE-Penelec | Variable Refrigerant Flow Heat Pump | Other Non-Mfg | HVAC | ROB | measure | 30,838 | 0.1% | 0.01 | 13 | \$227 | 43% | 0.09 |
| FE-Penelec | VFD on Cooling Tower Fan | Other Non-Mfg | HVAC | Early | motor | 30,838 | 21% | 1.94 | 15 | \$1,424 | 15% | 2.54 |
| FE-Penelec | VFD on Cooling Tower Fan | Other Non-Mfg | HVAC | New | motor | 30,838 | 22% | 1.94 | 15 | \$1,451 | 15% | 2.52 |
| FE-Penelec | VFD on Cooling Tower Fan | Other Non-Mfg | HVAC | ROB | motor | 30,838 | 22% | 1.94 | 15 | \$1,451 | 15% | 2.52 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Other Non-Mfg | HVAC | Existing | building | 33,510 | 19% | 1.60 | 15 | \$23,838 | 26% | 0.18 |
| FE-Penelec | Wall Insualtions (Going upto R 21) | Other Non-Mfg | HVAC | New | building | 33,510 | 0.6% | 0.05 | 15 | \$18,285 | 94% | 0.01 |
| FE-Penelec | Water Source Heat Pump (4 ton) | Other Non-Mfg | HVAC | Early | heat pump | 30,838 | 1.5% | 0.11 | 15 | \$5,242 | 28% | 0.06 |
| FE-Penelec | Water Source Heat Pump (4 ton) | Other Non-Mfg | HVAC | New | heat pump | 30,838 | 1.1% | 0.08 | 15 | \$2,555 | 28% | 0.09 |
| FE-Penelec | Water Source Heat Pump (4 ton) | Other Non-Mfg | HVAC | ROB | heat pump | 30,838 | 1.1% | 0.08 | 15 | \$2,555 | 28% | 0.09 |
| FE-Penelec | Efficient Metal Halide (High Bay) | Other Non-Mfg | Lighting | Early | end use | 17,418 | 42% | 0.00 | 9 | \$2,722 | 53% | 0.76 |
| FE-Penelec | Efficient Metal Halide (High Bay) | Other Non-Mfg | Lighting | New | end use | 17,418 | 41% | 0.00 | 13 | \$72,697 | 61% | 0.05 |
| FE-Penelec | Efficient Metal Halide (High Bay) | Other Non-Mfg | Lighting | ROB | end use | 17,418 | 41% | 0.00 | 13 | \$55,559 | 61% | 0.06 |
| FE-Penelec | Induction (High Bay) | Other Non-Mfg | Lighting | Early | end use | 17,418 | 94% | 0.00 | 13 | \$8,098 | 95% | 0.82 |
| FE-Penelec | Induction (High Bay) | Other Non-Mfg | Lighting | New | end use | 17,418 | 94% | 0.00 | 13 | \$7,582 | 95% | 0.87 |
| FE-Penelec | Induction (High Bay) | Other Non-Mfg | Lighting | ROB | end use | 17,418 | 94% | 0.00 | 13 | \$5,763 | 95% | 1.10 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|---------------------------------------|---------------|----------|----------|---------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | LED (High Bay) | Other Non-Mfg | Lighting | Early | end use | 17,418 | 69% | 0.00 | 14 | \$9,533 | 95% | 0.57 |
| FE-Penelec | LED (High Bay) | Other Non-Mfg | Lighting | New | end use | 17,418 | 55% | 0.00 | 14 | \$10,581 | 95% | 0.42 |
| FE-Penelec | LED (High Bay) | Other Non-Mfg | Lighting | ROB | end use | 17,418 | 59% | 0.00 | 14 | \$6,972 | 95% | 0.66 |
| FE-Penelec | Lighting Controls | Other Non-Mfg | Lighting | Existing | end use | 17,418 | 20% | 0.00 | 6 | \$65,296 | 16% | 0.01 |
| FE-Penelec | Lighting Controls | Other Non-Mfg | Lighting | New | end use | 17,418 | 12% | 0.00 | 10 | \$86,865 | 11% | 0.01 |
| FE-Penelec | Linear Fluorescent (High Bay) | Other Non-Mfg | Lighting | Early | end use | 17,418 | 17% | 0.00 | 14 | \$1,993 | 98% | 0.66 |
| FE-Penelec | Linear Fluorescent (High Bay) | Other Non-Mfg | Lighting | New | end use | 17,418 | 13% | 0.00 | 14 | \$632 | 91% | 1.39 |
| FE-Penelec | Linear Fluorescent (High Bay) | Other Non-Mfg | Lighting | ROB | end use | 17,418 | 13% | 0.00 | 14 | \$405 | 91% | 2.01 |
| FE-Penelec | Metal Halide (High Bay) | Other Non-Mfg | Lighting | Early | end use | 17,418 | 62% | 0.00 | 13 | \$11,973 | 38% | 0.39 |
| FE-Penelec | Metal Halide (High Bay) | Other Non-Mfg | Lighting | New | end use | 17,418 | 73% | 0.00 | 13 | \$2,863 | 38% | 1.56 |
| FE-Penelec | Metal Halide (High Bay) | Other Non-Mfg | Lighting | ROB | end use | 17,418 | 73% | 0.00 | 13 | \$2,176 | 38% | 1.91 |
| FE-Penelec | Screw Base CFL | Other Non-Mfg | Lighting | Early | end use | 17,418 | 80% | 0.00 | 7 | \$4,732 | 17% | 0.66 |
| FE-Penelec | Screw Base CFL | Other Non-Mfg | Lighting | New | end use | 17,418 | 73% | 0.00 | 9 | \$3,867 | 18% | 0.90 |
| FE-Penelec | Screw Base CFL | Other Non-Mfg | Lighting | ROB | end use | 17,418 | 73% | 0.00 | 9 | \$3,237 | 17% | 1.03 |
| FE-Penelec | Screw Base LED | Other Non-Mfg | Lighting | Early | end use | 17,418 | 76% | 0.00 | 9 | \$2,904 | 21% | 1.21 |
| FE-Penelec | Screw Base LED | Other Non-Mfg | Lighting | New | end use | 17,418 | 77% | 0.00 | 9 | \$1,618 | 20% | 1.84 |
| FE-Penelec | Screw Base LED | Other Non-Mfg | Lighting | ROB | end use | 17,418 | 77% | 0.00 | 9 | \$1,284 | 21% | 2.11 |
| FE-Penelec | T8 High Performance Linear Florescent | Other Non-Mfg | Lighting | Early | end use | 17,418 | 36% | 0.00 | 14 | \$1,667 | 71% | 1.48 |
| FE-Penelec | T8 High Performance Linear Florescent | Other Non-Mfg | Lighting | New | end use | 17,418 | 26% | 0.00 | 14 | \$596 | 76% | 2.49 |
| FE-Penelec | T8 High Performance Linear Florescent | Other Non-Mfg | Lighting | ROB | end use | 17,418 | 26% | 0.00 | 14 | \$453 | 76% | 2.94 |
| FE-Penelec | Automatic Milker Takeoff | Other Non-Mfg | Motors | Early | end use | 2,851 | 3.0% | 0.01 | 15 | \$52 | 11% | 0.89 |
| FE-Penelec | Automatic Milker Takeoff | Other Non-Mfg | Motors | New | end use | 2,851 | 3.0% | 0.01 | 15 | \$52 | 11% | 0.89 |
| FE-Penelec | Automatic Milker Takeoff | Other Non-Mfg | Motors | ROB | end use | 2,851 | 3.0% | 0.01 | 15 | \$52 | 11% | 0.89 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 1-15 HP | Other Non-Mfg | Motors | Early | end use | 2,851 | 0.9% | 0.00 | 15 | \$44 | 68% | 0.35 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 1-15 HP | Other Non-Mfg | Motors | New | end use | 2,851 | 0.9% | 0.00 | 15 | \$44 | 68% | 0.34 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 1-15 HP | Other Non-Mfg | Motors | ROB | end use | 2,851 | 0.9% | 0.00 | 15 | \$44 | 68% | 0.34 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 125-200 HP | Other Non-Mfg | Motors | Early | end use | 2,851 | 0.8% | 0.00 | 15 | \$26 | 61% | 0.46 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 125-200 HP | Other Non-Mfg | Motors | New | end use | 2,851 | 0.7% | 0.00 | 15 | \$26 | 61% | 0.45 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 125-200 HP | Other Non-Mfg | Motors | ROB | end use | 2,851 | 0.8% | 0.00 | 15 | \$26 | 61% | 0.46 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 20-40 HP | Other Non-Mfg | Motors | Early | end use | 2,851 | 0.5% | 0.00 | 15 | \$10 | 68% | 0.72 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 20-40 HP | Other Non-Mfg | Motors | New | end use | 2,851 | 0.4% | 0.00 | 15 | \$10 | 68% | 0.69 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 20-40 HP | Other Non-Mfg | Motors | ROB | end use | 2,851 | 0.5% | 0.00 | 15 | \$10 | 68% | 0.71 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 250-500 HP | Other Non-Mfg | Motors | Early | end use | 2,851 | 0.4% | 0.00 | 15 | \$3.3 | 61% | 1.63 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 250-500 HP | Other Non-Mfg | Motors | New | end use | 2,851 | 0.4% | 0.00 | 15 | \$3.3 | 61% | 1.64 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 250-500 HP | Other Non-Mfg | Motors | ROB | end use | 2,851 | 0.4% | 0.00 | 15 | \$3.3 | 61% | 1.63 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 50-100 HP | Other Non-Mfg | Motors | Early | end use | 2,851 | 0.9% | 0.00 | 15 | \$5.0 | 39% | 2.29 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 50-100 HP | Other Non-Mfg | Motors | New | end use | 2,851 | 0.9% | 0.00 | 15 | \$5.0 | 39% | 2.31 |
| FE-Penelec | Enhanced (Ultra-PE) Motor 50-100 HP | Other Non-Mfg | Motors | ROB | end use | 2,851 | 0.9% | 0.00 | 15 | \$5.0 | 39% | 2.29 |
| FE-Penelec | Facility Energy Management | Other Non-Mfg | Motors | Existing | end use | 2,851 | 1.9% | 0.01 | 2 | \$1.1 | 64% | 1.15 |
| FE-Penelec | Facility Energy Management | Other Non-Mfg | Motors | New | end use | 2,851 | 1.9% | 0.01 | 2 | \$1.1 | 64% | 1.14 |
| FE-Penelec | HE Motors | Other Non-Mfg | Motors | Early | end use | 2,851 | 2.0% | 0.01 | 15 | \$17 | 32% | 1.66 |
| FE-Penelec | HE Motors | Other Non-Mfg | Motors | New | end use | 2,851 | 2.0% | 0.01 | 15 | \$17 | 32% | 1.66 |
| FE-Penelec | HE Motors | Other Non-Mfg | Motors | ROB | end use | 2,851 | 2.0% | 0.01 | 15 | \$17 | 32% | 1.66 |
| FE-Penelec | High-Efficiency Ventilation System | Other Non-Mfg | Motors | Early | end use | 2,851 | 5.7% | 0.02 | 10 | \$178 | 61% | 0.36 |
| FE-Penelec | High-Efficiency Ventilation System | Other Non-Mfg | Motors | New | end use | 2,851 | 5.7% | 0.02 | 10 | \$178 | 61% | 0.36 |
| FE-Penelec | High-Efficiency Ventilation System | Other Non-Mfg | Motors | ROB | end use | 2,851 | 5.7% | 0.02 | 10 | \$178 | 61% | 0.36 |
| FE-Penelec | Improved Controls - Motors | Other Non-Mfg | Motors | Existing | end use | 2,851 | 4.0% | 0.02 | 10 | \$12 | 61% | 2.35 |
| FE-Penelec | Improved Controls - Motors | Other Non-Mfg | Motors | New | end use | 2,851 | 4.0% | 0.02 | 10 | \$12 | 61% | 2.35 |
| FE-Penelec | Motor Management Plan | Other Non-Mfg | Motors | Existing | end use | 2,851 | 2.9% | 0.01 | 10 | \$5.8 | 61% | 3.00 |
| FE-Penelec | Motor Management Plan | Other Non-Mfg | Motors | New | end use | 2,851 | 2.9% | 0.01 | 10 | \$5.8 | 61% | 3.00 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|--|---------------|---------|----------|---------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Motors Other | Other Non-Mfg | Motors | Existing | end use | 2,851 | 1.1% | 0.00 | 15 | \$0.6 | 69% | 6.77 |
| FE-Penelec | Motors Other | Other Non-Mfg | Motors | New | end use | 2,851 | 1.1% | 0.00 | 15 | \$0.6 | 69% | 6.77 |
| FE-Penelec | Motors: Rewind 101-200 HP | Other Non-Mfg | Motors | Existing | end use | 2,851 | 0.6% | 0.00 | 10 | \$3.6 | 22% | 1.43 |
| FE-Penelec | Motors: Rewind 101-200 HP | Other Non-Mfg | Motors | New | end use | 2,851 | 0.6% | 0.00 | 10 | \$3.6 | 22% | 1.42 |
| FE-Penelec | Motors: Rewind 201-500 HP | Other Non-Mfg | Motors | Existing | end use | 2,851 | 0.6% | 0.00 | 8 | \$2.3 | 22% | 1.66 |
| FE-Penelec | Motors: Rewind 201-500 HP | Other Non-Mfg | Motors | New | end use | 2,851 | 0.6% | 0.00 | 8 | \$2.3 | 22% | 1.67 |
| FE-Penelec | Motors: Rewind 20-50 HP | Other Non-Mfg | Motors | Existing | end use | 2,851 | 1.0% | 0.00 | 11 | \$11 | 35% | 1.08 |
| FE-Penelec | Motors: Rewind 20-50 HP | Other Non-Mfg | Motors | New | end use | 2,851 | 1.0% | 0.00 | 11 | \$11 | 35% | 1.07 |
| FE-Penelec | Motors: Rewind 500+ HP | Other Non-Mfg | Motors | Existing | end use | 2,851 | 0.6% | 0.00 | 8 | \$1.6 | 10% | 2.08 |
| FE-Penelec | Motors: Rewind 500+ HP | Other Non-Mfg | Motors | New | end use | 2,851 | 0.6% | 0.00 | 8 | \$1.6 | 10% | 2.07 |
| FE-Penelec | Motors: Rewind 51-100 HP | Other Non-Mfg | Motors | Existing | end use | 2,851 | 0.6% | 0.00 | 9 | \$5.2 | 35% | 1.04 |
| FE-Penelec | Motors: Rewind 51-100 HP | Other Non-Mfg | Motors | New | end use | 2,851 | 0.6% | 0.00 | 9 | \$5.2 | 35% | 1.06 |
| FE-Penelec | SIS | Other Non-Mfg | Motors | Existing | end use | 2,851 | 7.5% | 0.03 | 7 | \$180 | 11% | 0.35 |
| FE-Penelec | SIS | Other Non-Mfg | Motors | New | end use | 2,851 | 7.5% | 0.03 | 7 | \$180 | 11% | 0.35 |
| FE-Penelec | Switch from Belt drive to Direct Drive | Other Non-Mfg | Motors | Early | end use | 2,851 | 7.5% | 0.03 | 12 | \$46 | 25% | 1.72 |
| FE-Penelec | Switch from Belt drive to Direct Drive | Other Non-Mfg | Motors | New | end use | 2,851 | 7.5% | 0.03 | 12 | \$46 | 25% | 1.72 |
| FE-Penelec | Switch from Belt drive to Direct Drive | Other Non-Mfg | Motors | ROB | end use | 2,851 | 7.5% | 0.03 | 12 | \$46 | 25% | 1.72 |
| FE-Penelec | Synchronous Belts | Other Non-Mfg | Motors | Early | end use | 2,851 | 1.2% | 0.00 | 10 | \$4.2 | 25% | 2.15 |
| FE-Penelec | Synchronous Belts | Other Non-Mfg | Motors | New | end use | 2,851 | 1.2% | 0.00 | 10 | \$4.2 | 25% | 2.15 |
| FE-Penelec | Synchronous Belts | Other Non-Mfg | Motors | ROB | end use | 2,851 | 1.2% | 0.00 | 10 | \$4.2 | 25% | 2.15 |
| FE-Penelec | Variable Speed Drives for Dairy Vacuum Pumps | Other Non-Mfg | Motors | Early | end use | 2,851 | 37% | 0.15 | 15 | \$143 | 7% | 2.91 |
| FE-Penelec | Variable Speed Drives for Dairy Vacuum Pumps | Other Non-Mfg | Motors | New | end use | 2,851 | 37% | 0.15 | 15 | \$143 | 7% | 2.91 |
| FE-Penelec | Variable Speed Drives for Dairy Vacuum Pumps | Other Non-Mfg | Motors | ROB | end use | 2,851 | 37% | 0.15 | 15 | \$143 | 7% | 2.91 |
| FE-Penelec | VFDs on Small Milking Machines | Other Non-Mfg | Motors | Early | end use | 2,851 | 3.2% | 0.01 | 15 | \$61 | 7% | 0.82 |
| FE-Penelec | VFDs on Small Milking Machines | Other Non-Mfg | Motors | New | end use | 2,851 | 3.2% | 0.01 | 15 | \$61 | 7% | 0.82 |
| FE-Penelec | VFDs on Small Milking Machines | Other Non-Mfg | Motors | ROB | end use | 2,851 | 3.2% | 0.01 | 15 | \$61 | 7% | 0.82 |
| FE-Penelec | Wood: Replace Pneumatic Conveyor | Other Non-Mfg | Motors | Early | end use | 2,851 | 29% | 0.12 | 10 | \$12 | 11% | 4.99 |
| FE-Penelec | Wood: Replace Pneumatic Conveyor | Other Non-Mfg | Motors | New | end use | 2,851 | 29% | 0.12 | 10 | \$12 | 11% | 4.99 |
| FE-Penelec | Wood: Replace Pneumatic Conveyor | Other Non-Mfg | Motors | ROB | end use | 2,851 | 29% | 0.12 | 10 | \$12 | 11% | 4.99 |
| FE-Penelec | Bldg Improvements | Other Non-Mfg | Other | Existing | end use | 5,479 | 16% | 0.11 | 15 | \$119 | 72% | 2.85 |
| FE-Penelec | Bldg Improvements | Other Non-Mfg | Other | New | end use | 5,479 | 16% | 0.11 | 15 | \$119 | 72% | 2.85 |
| FE-Penelec | Block Heater Timer | Other Non-Mfg | Other | Existing | end use | 5,479 | 2.5% | 0.02 | 10 | \$5.4 | 40% | 3.76 |
| FE-Penelec | Block Heater Timer | Other Non-Mfg | Other | New | end use | 5,479 | 2.5% | 0.02 | 10 | \$5.4 | 40% | 3.76 |
| FE-Penelec | Energy Project Management | Other Non-Mfg | Other | Existing | end use | 5,479 | 29% | 0.19 | 11 | \$196 | 63% | 2.28 |
| FE-Penelec | Energy Project Management | Other Non-Mfg | Other | New | end use | 5,479 | 29% | 0.19 | 11 | \$196 | 63% | 2.28 |
| FE-Penelec | Facility Energy Management | Other Non-Mfg | Other | Existing | end use | 5,479 | 1.9% | 0.01 | 2 | \$2.1 | 76% | 1.11 |
| FE-Penelec | Facility Energy Management | Other Non-Mfg | Other | New | end use | 5,479 | 1.9% | 0.01 | 2 | \$2.1 | 76% | 1.11 |
| FE-Penelec | Grain bin aeration control systems | Other Non-Mfg | Other | Existing | end use | 5,479 | 2.3% | 0.01 | 15 | \$16 | 24% | 2.87 |
| FE-Penelec | Grain bin aeration control systems | Other Non-Mfg | Other | New | end use | 5,479 | 2.3% | 0.01 | 15 | \$16 | 24% | 2.87 |
| FE-Penelec | Greenhouse Heat Curtain | Other Non-Mfg | Other | Existing | end use | 5,479 | 17% | 0.11 | 5 | \$42 | 5% | 2.00 |
| FE-Penelec | Greenhouse Heat Curtain | Other Non-Mfg | Other | New | end use | 5,479 | 17% | 0.11 | 5 | \$42 | 5% | 2.00 |
| FE-Penelec | HE Stock tank | Other Non-Mfg | Other | Early | end use | 5,479 | 3.8% | 0.02 | 10 | \$68 | 14% | 1.00 |
| FE-Penelec | HE Stock tank | Other Non-Mfg | Other | New | end use | 5,479 | 3.8% | 0.02 | 10 | \$68 | 14% | 1.00 |
| FE-Penelec | HE Stock tank | Other Non-Mfg | Other | ROB | end use | 5,479 | 3.8% | 0.02 | 10 | \$68 | 14% | 1.00 |
| FE-Penelec | Integrated Plant Energy Management | Other Non-Mfg | Other | Existing | end use | 5,479 | 50% | 0.33 | 11 | \$540 | 48% | 1.65 |
| FE-Penelec | Integrated Plant Energy Management | Other Non-Mfg | Other | New | end use | 5,479 | 50% | 0.33 | 11 | \$540 | 48% | 1.65 |
| FE-Penelec | Livestock Waterers | Other Non-Mfg | Other | Early | end use | 5,479 | 11% | 0.07 | 10 | \$162 | 14% | 1.21 |
| FE-Penelec | Livestock Waterers | Other Non-Mfg | Other | New | end use | 5,479 | 11% | 0.07 | 10 | \$162 | 14% | 1.21 |
| FE-Penelec | Livestock Waterers | Other Non-Mfg | Other | ROB | end use | 5,479 | 11% | 0.07 | 10 | \$162 | 14% | 1.21 |
| FE-Penelec | Plant Energy Management | Other Non-Mfg | Other | Existing | end use | 5,479 | 12% | 0.08 | 10 | \$14 | 55% | 4.51 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------------|-------------------------------------|---------------|------------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Plant Energy Management | Other Non-Mfg | Other | New | end use | 5,479 | 12% | 0.08 | 10 | \$14 | 55% | 4.51 |
| FE-Penelec | Transformers | Other Non-Mfg | Other | Early | end use | 5,479 | 1.6% | 0.01 | 15 | \$18 | 34% | 2.13 |
| FE-Penelec | Transformers | Other Non-Mfg | Other | New | end use | 5,479 | 1.6% | 0.01 | 15 | \$18 | 34% | 2.12 |
| FE-Penelec | Transformers | Other Non-Mfg | Other | ROB | end use | 5,479 | 1.6% | 0.01 | 15 | \$18 | 34% | 2.11 |
| FE-Penelec | Air Compressor Demand Reduction | Other Non-Mfg | Process Air Compressor | Existing | end use | 236 | 26% | 0.01 | 10 | \$3.5 | 40% | 3.24 |
| FE-Penelec | Air Compressor Demand Reduction | Other Non-Mfg | Process Air Compressor | New | end use | 236 | 26% | 0.01 | 10 | \$3.5 | 40% | 3.24 |
| FE-Penelec | Air Compressor Equipment | Other Non-Mfg | Process Air Compressor | Early | end use | 236 | 39% | 0.01 | 10 | \$4.3 | 56% | 3.56 |
| FE-Penelec | Air Compressor Equipment | Other Non-Mfg | Process Air Compressor | New | end use | 236 | 39% | 0.01 | 10 | \$4.3 | 56% | 3.56 |
| FE-Penelec | Air Compressor Equipment | Other Non-Mfg | Process Air Compressor | ROB | end use | 236 | 39% | 0.01 | 10 | \$4.3 | 56% | 3.56 |
| FE-Penelec | Air Compressor Optimization | Other Non-Mfg | Process Air Compressor | Existing | end use | 236 | 39% | 0.01 | 10 | \$10 | 42% | 2.30 |
| FE-Penelec | Air Compressor Optimization | Other Non-Mfg | Process Air Compressor | New | end use | 236 | 39% | 0.01 | 10 | \$10 | 42% | 2.30 |
| FE-Penelec | Facility Energy Management | Other Non-Mfg | Process Air Compressor | Existing | end use | 236 | 1.9% | 0.00 | 2 | \$0.1 | 50% | 1.13 |
| FE-Penelec | Facility Energy Management | Other Non-Mfg | Process Air Compressor | New | end use | 236 | 1.9% | 0.00 | 2 | \$0.1 | 50% | 1.13 |
| FE-Penelec | HE Compressor motors | Other Non-Mfg | Process Air Compressor | Early | end use | 236 | 1.1% | 0.00 | 15 | \$0.9 | 56% | 1.43 |
| FE-Penelec | HE Compressor motors | Other Non-Mfg | Process Air Compressor | New | end use | 236 | 1.1% | 0.00 | 15 | \$0.9 | 56% | 1.43 |
| FE-Penelec | HE Compressor motors | Other Non-Mfg | Process Air Compressor | ROB | end use | 236 | 1.1% | 0.00 | 15 | \$0.9 | 56% | 1.44 |
| FE-Penelec | Improved Controls - Air Compressor | Other Non-Mfg | Process Air Compressor | Existing | end use | 236 | 41% | 0.01 | 10 | \$4.2 | 19% | 3.64 |
| FE-Penelec | Improved Controls - Air Compressor | Other Non-Mfg | Process Air Compressor | New | end use | 236 | 41% | 0.01 | 10 | \$4.2 | 19% | 3.64 |
| FE-Penelec | Low Pressure-drop Filters | Other Non-Mfg | Process Air Compressor | Existing | end use | 236 | 1.8% | 0.00 | 10 | \$2.7 | 46% | 0.61 |
| FE-Penelec | Low Pressure-drop Filters | Other Non-Mfg | Process Air Compressor | New | end use | 236 | 1.9% | 0.00 | 10 | \$2.7 | 46% | 0.61 |
| FE-Penelec | Outside Air Intake | Other Non-Mfg | Process Air Compressor | Existing | end use | 236 | 1.4% | 0.00 | 10 | \$1.6 | 37% | 0.79 |
| FE-Penelec | Outside Air Intake | Other Non-Mfg | Process Air Compressor | New | end use | 236 | 1.4% | 0.00 | 10 | \$1.6 | 37% | 0.79 |
| FE-Penelec | Receiver Capacity Addition | Other Non-Mfg | Process Air Compressor | Existing | end use | 236 | 6.0% | 0.00 | 10 | \$4.4 | 28% | 1.09 |
| FE-Penelec | Receiver Capacity Addition | Other Non-Mfg | Process Air Compressor | New | end use | 236 | 6.0% | 0.00 | 10 | \$4.4 | 28% | 1.09 |
| FE-Penelec | Refrigerated Cycling Dryers | Other Non-Mfg | Process Air Compressor | Early | end use | 236 | 1.7% | 0.00 | 10 | \$0.5 | 16% | 2.01 |
| FE-Penelec | Refrigerated Cycling Dryers | Other Non-Mfg | Process Air Compressor | New | end use | 236 | 1.7% | 0.00 | 10 | \$0.5 | 16% | 2.00 |
| FE-Penelec | Refrigerated Cycling Dryers | Other Non-Mfg | Process Air Compressor | ROB | end use | 236 | 1.7% | 0.00 | 10 | \$0.5 | 16% | 2.01 |
| FE-Penelec | VFD Controlled Compressor | Other Non-Mfg | Process Air Compressor | Early | end use | 236 | 24% | 0.01 | 10 | \$23 | 22% | 0.86 |
| FE-Penelec | VFD Controlled Compressor | Other Non-Mfg | Process Air Compressor | New | end use | 236 | 24% | 0.01 | 10 | \$23 | 22% | 0.86 |
| FE-Penelec | VFD Controlled Compressor | Other Non-Mfg | Process Air Compressor | ROB | end use | 236 | 24% | 0.01 | 10 | \$23 | 22% | 0.86 |
| FE-Penelec | Zero Loss Condensate Drain | Other Non-Mfg | Process Air Compressor | Early | end use | 236 | 1.8% | 0.00 | 10 | \$1.4 | 28% | 1.09 |
| FE-Penelec | Zero Loss Condensate Drain | Other Non-Mfg | Process Air Compressor | New | end use | 236 | 1.9% | 0.00 | 10 | \$1.4 | 28% | 1.10 |
| FE-Penelec | Zero Loss Condensate Drain | Other Non-Mfg | Process Air Compressor | ROB | end use | 236 | 1.9% | 0.00 | 10 | \$1.4 | 28% | 1.10 |
| FE-Penelec | Cooling Tower Optimization | Other Non-Mfg | Process Cooling | Existing | building | 3,407 | 20% | 0.24 | 10 | \$21 | 15% | 5.13 |
| FE-Penelec | Equipment: Chillers | Other Non-Mfg | Process Cooling | Early | end use | 3,135 | 18% | 0.12 | 15 | \$147 | 39% | 1.89 |
| FE-Penelec | Equipment: Chillers | Other Non-Mfg | Process Cooling | New | end use | 3,135 | 18% | 0.12 | 15 | \$147 | 39% | 1.89 |
| FE-Penelec | Equipment: Chillers | Other Non-Mfg | Process Cooling | ROB | end use | 3,135 | 18% | 0.12 | 15 | \$147 | 39% | 1.89 |
| FE-Penelec | Facility Energy Management | Other Non-Mfg | Process Cooling | Existing | end use | 3,135 | 1.9% | 0.01 | 2 | \$1.2 | 50% | 1.20 |
| FE-Penelec | Facility Energy Management | Other Non-Mfg | Process Cooling | New | end use | 3,135 | 1.8% | 0.01 | 2 | \$1.2 | 50% | 1.20 |
| FE-Penelec | Improved Controls - Process Cooling | Other Non-Mfg | Process Cooling | Existing | end use | 3,135 | 6.0% | 0.04 | 10 | \$166 | 47% | 0.47 |
| FE-Penelec | Improved Controls - Process Cooling | Other Non-Mfg | Process Cooling | New | end use | 3,135 | 6.0% | 0.04 | 10 | \$166 | 47% | 0.47 |
| FE-Penelec | Milk Precooler - Dairy Plate Cooler | Other Non-Mfg | Process Cooling | Early | end use | 3,135 | 3.2% | 0.02 | 15 | \$53 | 8% | 1.06 |
| FE-Penelec | Milk Precooler - Dairy Plate Cooler | Other Non-Mfg | Process Cooling | New | end use | 3,135 | 3.2% | 0.02 | 15 | \$53 | 8% | 1.06 |
| FE-Penelec | Milk Precooler - Dairy Plate Cooler | Other Non-Mfg | Process Cooling | ROB | end use | 3,135 | 3.2% | 0.02 | 15 | \$53 | 8% | 1.06 |
| FE-Penelec | VFD on Cooling Tower Fan | Other Non-Mfg | Process Cooling | Early | motor | 3,407 | 21% | 0.21 | 15 | \$157 | 20% | 2.39 |
| FE-Penelec | VFD on Cooling Tower Fan | Other Non-Mfg | Process Cooling | New | motor | 3,407 | 22% | 0.21 | 15 | \$160 | 20% | 2.37 |
| FE-Penelec | VFD on Cooling Tower Fan | Other Non-Mfg | Process Cooling | ROB | motor | 3,407 | 22% | 0.21 | 15 | \$160 | 20% | 2.37 |
| FE-Penelec | Crate Heating Pads | Other Non-Mfg | Process Heating | Early | end use | 12,700 | 18% | 0.30 | 15 | \$323 | 9% | 2.64 |
| FE-Penelec | Crate Heating Pads | Other Non-Mfg | Process Heating | New | end use | 12,700 | 18% | 0.30 | 15 | \$323 | 9% | 2.64 |
| FE-Penelec | Crate Heating Pads | Other Non-Mfg | Process Heating | ROB | end use | 12,700 | 18% | 0.30 | 15 | \$323 | 9% | 2.64 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---------------------------------------|----------------|-----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penelec | Grain dryers | Other Non-Mfg | Process Heating | Early | end use | 12,700 | 24% | 0.41 | 15 | \$19,598 | 9% | 0.09 |
| FE-Penelec | Grain dryers | Other Non-Mfg | Process Heating | New | end use | 12,700 | 24% | 0.41 | 15 | \$19,598 | 9% | 0.09 |
| FE-Penelec | Grain dryers | Other Non-Mfg | Process Heating | ROB | end use | 12,700 | 24% | 0.41 | 15 | \$19,598 | 9% | 0.09 |
| FE-Penelec | Heat Lamp Setback (Microzone) | Other Non-Mfg | Process Heating | Existing | end use | 12,700 | 0.5% | 0.01 | 15 | \$9.7 | 4% | 2.43 |
| FE-Penelec | Heat Lamp Setback (Microzone) | Other Non-Mfg | Process Heating | New | end use | 12,700 | 0.5% | 0.01 | 15 | \$9.7 | 4% | 2.42 |
| FE-Penelec | Heat Lamp/Heating Pad Controller | Other Non-Mfg | Process Heating | Existing | end use | 12,700 | 1.8% | 0.03 | 15 | \$23 | 4% | 3.33 |
| FE-Penelec | Heat Lamp/Heating Pad Controller | Other Non-Mfg | Process Heating | New | end use | 12,700 | 1.8% | 0.03 | 15 | \$23 | 4% | 3.33 |
| FE-Penelec | Heat Lamps | Other Non-Mfg | Process Heating | Early | end use | 12,700 | 3.4% | 0.06 | 10 | \$8.1 | 9% | 4.51 |
| FE-Penelec | Heat Lamps | Other Non-Mfg | Process Heating | New | end use | 12,700 | 3.4% | 0.06 | 10 | \$8.1 | 9% | 4.51 |
| FE-Penelec | Heat Lamps | Other Non-Mfg | Process Heating | ROB | end use | 12,700 | 3.4% | 0.06 | 10 | \$8.1 | 9% | 4.51 |
| FE-Penelec | Improved Controls - Process Heating | Other Non-Mfg | Process Heating | Existing | end use | 12,700 | 17% | 0.30 | 10 | \$146 | 23% | 3.00 |
| FE-Penelec | Improved Controls - Process Heating | Other Non-Mfg | Process Heating | New | end use | 12,700 | 17% | 0.30 | 10 | \$146 | 23% | 3.00 |
| FE-Penelec | Process Heat O&M | Other Non-Mfg | Process Heating | Existing | end use | 12,700 | 16% | 0.28 | 2 | \$88 | 23% | 0.90 |
| FE-Penelec | Process Heat O&M | Other Non-Mfg | Process Heating | New | end use | 12,700 | 16% | 0.28 | 2 | \$88 | 23% | 0.90 |
| FE-Penelec | Facility Energy Management | Other Non-Mfg | Process Other | Existing | end use | 1,371 | 1.9% | 0.00 | 2 | \$0.5 | 73% | 1.12 |
| FE-Penelec | Facility Energy Management | Other Non-Mfg | Process Other | New | end use | 1,371 | 1.9% | 0.00 | 2 | \$0.5 | 73% | 1.12 |
| FE-Penelec | Adjustable speed drive on compressors | Other Non-Mfg | Process Refrigeration | Early | end use | 1,610 | 12% | 0.03 | 10 | \$30 | 30% | 1.86 |
| FE-Penelec | Adjustable speed drive on compressors | Other Non-Mfg | Process Refrigeration | New | end use | 1,610 | 12% | 0.03 | 10 | \$30 | 30% | 1.86 |
| FE-Penelec | Adjustable speed drive on compressors | Other Non-Mfg | Process Refrigeration | ROB | end use | 1,610 | 12% | 0.03 | 10 | \$30 | 30% | 1.86 |
| FE-Penelec | Cooling Tower Optimization | Other Non-Mfg | Process Refrigeration | Existing | building | 1,750 | 20% | 0.13 | 10 | \$11 | 15% | 5.13 |
| FE-Penelec | Optimization of operating parameters | Other Non-Mfg | Process Refrigeration | Existing | end use | 1,610 | 13% | 0.03 | 3 | \$13 | 27% | 1.14 |
| FE-Penelec | Optimization of operating parameters | Other Non-Mfg | Process Refrigeration | New | end use | 1,610 | 13% | 0.03 | 3 | \$13 | 27% | 1.14 |
| FE-Penelec | Synchronous Belts | Other Non-Mfg | Process Refrigeration | Early | end use | 1,610 | 1.2% | 0.00 | 10 | \$2.4 | 30% | 2.16 |
| FE-Penelec | Synchronous Belts | Other Non-Mfg | Process Refrigeration | New | end use | 1,610 | 1.2% | 0.00 | 10 | \$2.4 | 30% | 2.16 |
| FE-Penelec | Synchronous Belts | Other Non-Mfg | Process Refrigeration | ROB | end use | 1,610 | 1.2% | 0.00 | 10 | \$2.4 | 30% | 2.16 |
| FE-Penelec | VFD on Cooling Tower Fan | Other Non-Mfg | Process Refrigeration | Early | motor | 1,750 | 21% | 0.11 | 15 | \$81 | 20% | 2.39 |
| FE-Penelec | VFD on Cooling Tower Fan | Other Non-Mfg | Process Refrigeration | New | motor | 1,750 | 22% | 0.11 | 15 | \$82 | 20% | 2.37 |
| FE-Penelec | VFD on Cooling Tower Fan | Other Non-Mfg | Process Refrigeration | ROB | motor | 1,750 | 22% | 0.11 | 15 | \$82 | 20% | 2.37 |
| FE-Penelec | Facility Energy Management | Other Non-Mfg | Pumps | Existing | end use | 15,983 | 1.9% | 0.04 | 2 | \$6.2 | 34% | 1.18 |
| FE-Penelec | Facility Energy Management | Other Non-Mfg | Pumps | New | end use | 15,983 | 1.9% | 0.04 | 2 | \$6.2 | 34% | 1.17 |
| FE-Penelec | HE Motors | Other Non-Mfg | Pumps | Early | end use | 15,983 | 2.0% | 0.04 | 15 | \$95 | 36% | 1.64 |
| FE-Penelec | HE Motors | Other Non-Mfg | Pumps | New | end use | 15,983 | 2.0% | 0.04 | 15 | \$95 | 36% | 1.64 |
| FE-Penelec | HE Motors | Other Non-Mfg | Pumps | ROB | end use | 15,983 | 2.0% | 0.04 | 15 | \$95 | 36% | 1.64 |
| FE-Penelec | Motor rewinds | Other Non-Mfg | Pumps | Existing | end use | 15,983 | 0.6% | 0.01 | 9 | \$23 | 6% | 1.31 |
| FE-Penelec | Motor rewinds | Other Non-Mfg | Pumps | New | end use | 15,983 | 0.6% | 0.01 | 9 | \$23 | 6% | 1.29 |
| FE-Penelec | Synchronous Belts | Other Non-Mfg | Pumps | Early | end use | 15,983 | 1.2% | 0.02 | 10 | \$24 | 30% | 2.12 |
| FE-Penelec | Synchronous Belts | Other Non-Mfg | Pumps | New | end use | 15,983 | 1.2% | 0.02 | 10 | \$24 | 30% | 2.12 |
| FE-Penelec | Synchronous Belts | Other Non-Mfg | Pumps | ROB | end use | 15,983 | 1.2% | 0.02 | 10 | \$24 | 30% | 2.12 |
| FE-Penn Power | Circulating Fans | Mfg: Chemicals | Fans | Early | end use | 398,465 | 5.0% | 2.37 | 10 | \$2,426 | 68% | 1.94 |
| FE-Penn Power | Circulating Fans | Mfg: Chemicals | Fans | New | end use | 398,465 | 5.0% | 2.37 | 10 | \$2,426 | 68% | 1.94 |
| FE-Penn Power | Circulating Fans | Mfg: Chemicals | Fans | ROB | end use | 398,465 | 5.0% | 2.37 | 10 | \$2,426 | 68% | 1.94 |
| FE-Penn Power | Facility Energy Management | Mfg: Chemicals | Fans | Existing | end use | 398,465 | 1.9% | 0.87 | 2 | \$154 | 77% | 1.11 |
| FE-Penn Power | Facility Energy Management | Mfg: Chemicals | Fans | New | end use | 398,465 | 1.9% | 0.87 | 2 | \$154 | 77% | 1.11 |
| FE-Penn Power | HE Motors | Mfg: Chemicals | Fans | Early | end use | 398,465 | 2.0% | 0.97 | 15 | \$2,372 | 77% | 1.37 |
| FE-Penn Power | HE Motors | Mfg: Chemicals | Fans | New | end use | 398,465 | 2.0% | 0.97 | 15 | \$2,372 | 77% | 1.37 |
| FE-Penn Power | HE Motors | Mfg: Chemicals | Fans | ROB | end use | 398,465 | 2.0% | 0.97 | 15 | \$2,372 | 77% | 1.37 |
| FE-Penn Power | Improved Controls - Fans | Mfg: Chemicals | Fans | Existing | end use | 398,465 | 7.1% | 3.37 | 10 | \$1,545 | 88% | 2.98 |
| FE-Penn Power | Improved Controls - Fans | Mfg: Chemicals | Fans | New | end use | 398,465 | 7.1% | 3.37 | 10 | \$1,545 | 88% | 2.98 |
| FE-Penn Power | Properly Sized Fans | Mfg: Chemicals | Fans | Early | end use | 398,465 | 13% | 6.24 | 10 | \$8,161 | 41% | 1.65 |
| FE-Penn Power | Properly Sized Fans | Mfg: Chemicals | Fans | New | end use | 398,465 | 13% | 6.24 | 10 | \$8,161 | 41% | 1.65 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|--|----------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Properly Sized Fans | Mfg: Chemicals | Fans | ROB | end use | 398,465 | 13% | 6.24 | 10 | \$8,161 | 41% | 1.65 |
| FE-Penn Power | Synchronous Belts | Mfg: Chemicals | Fans | Early | end use | 398,465 | 1.2% | 0.55 | 10 | \$587 | 41% | 1.89 |
| FE-Penn Power | Synchronous Belts | Mfg: Chemicals | Fans | New | end use | 398,465 | 1.2% | 0.55 | 10 | \$587 | 41% | 1.89 |
| FE-Penn Power | Synchronous Belts | Mfg: Chemicals | Fans | ROB | end use | 398,465 | 1.2% | 0.55 | 10 | \$587 | 41% | 1.89 |
| FE-Penn Power | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Chemicals | HVAC | Early | unit (ton) | 159,350 | 9.2% | 3.79 | 15 | \$29,041 | 28% | 0.28 |
| FE-Penn Power | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Chemicals | HVAC | New | unit (ton) | 159,350 | 4.1% | 1.70 | 15 | \$7,036 | 28% | 0.50 |
| FE-Penn Power | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Chemicals | HVAC | ROB | unit (ton) | 159,350 | 4.1% | 1.70 | 15 | \$7,036 | 28% | 0.50 |
| FE-Penn Power | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Chemicals | HVAC | Early | unit (ton) | 159,350 | 12% | 5.13 | 15 | \$34,236 | 28% | 0.32 |
| FE-Penn Power | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Chemicals | HVAC | New | unit (ton) | 159,350 | 7.7% | 3.18 | 15 | \$14,819 | 28% | 0.45 |
| FE-Penn Power | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Chemicals | HVAC | ROB | unit (ton) | 159,350 | 7.7% | 3.18 | 15 | \$14,819 | 28% | 0.45 |
| FE-Penn Power | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Chemicals | HVAC | Early | unit (ton) | 159,350 | 15% | 6.30 | 15 | \$39,431 | 29% | 0.34 |
| FE-Penn Power | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Chemicals | HVAC | New | unit (ton) | 159,350 | 11% | 4.47 | 15 | \$22,603 | 29% | 0.42 |
| FE-Penn Power | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Chemicals | HVAC | ROB | unit (ton) | 159,350 | 11% | 4.47 | 15 | \$22,603 | 29% | 0.42 |
| FE-Penn Power | >760k min 10.2 EER Air Conditioner | Mfg: Chemicals | HVAC | Early | unit (ton) | 159,350 | 2.1% | 0.88 | 15 | \$50,572 | 35% | 0.04 |
| FE-Penn Power | >760k min 10.2 EER Air Conditioner | Mfg: Chemicals | HVAC | New | unit (ton) | 159,350 | 2.8% | 1.17 | 15 | \$4,571 | 35% | 0.53 |
| FE-Penn Power | >760k min 10.2 EER Air Conditioner | Mfg: Chemicals | HVAC | ROB | unit (ton) | 159,350 | 2.8% | 1.17 | 15 | \$4,571 | 35% | 0.53 |
| FE-Penn Power | 135-240k min 12 EER Air Conditioner | Mfg: Chemicals | HVAC | Early | unit (ton) | 159,350 | 10% | 4.32 | 15 | \$54,762 | 35% | 0.17 |
| FE-Penn Power | 135-240k min 12 EER Air Conditioner | Mfg: Chemicals | HVAC | New | unit (ton) | 159,350 | 5.8% | 2.39 | 15 | \$6,466 | 35% | 0.74 |
| FE-Penn Power | 135-240k min 12 EER Air Conditioner | Mfg: Chemicals | HVAC | ROB | unit (ton) | 159,350 | 5.8% | 2.39 | 15 | \$6,466 | 35% | 0.74 |
| FE-Penn Power | 240k-760k min 11 EER Air Conditioner | Mfg: Chemicals | HVAC | Early | unit (ton) | 159,350 | 5.2% | 2.15 | 15 | \$50,604 | 35% | 0.09 |
| FE-Penn Power | 240k-760k min 11 EER Air Conditioner | Mfg: Chemicals | HVAC | New | unit (ton) | 159,350 | 5.3% | 2.21 | 15 | \$5,421 | 35% | 0.81 |
| FE-Penn Power | 240k-760k min 11 EER Air Conditioner | Mfg: Chemicals | HVAC | ROB | unit (ton) | 159,350 | 5.3% | 2.21 | 15 | \$5,421 | 35% | 0.81 |
| FE-Penn Power | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Chemicals | HVAC | Early | unit (ton) | 159,350 | 9.7% | 4.01 | 15 | \$56,072 | 35% | 0.16 |
| FE-Penn Power | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Chemicals | HVAC | New | unit (ton) | 159,350 | 3.8% | 1.59 | 15 | \$8,000 | 35% | 0.42 |
| FE-Penn Power | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Chemicals | HVAC | ROB | unit (ton) | 159,350 | 3.8% | 1.59 | 15 | \$8,000 | 35% | 0.42 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Mfg: Chemicals | HVAC | Existing | building | 159,350 | 5.9% | 2.37 | 15 | \$482,807 | 71% | 0.01 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Mfg: Chemicals | HVAC | New | building | 159,350 | 3.7% | 1.48 | 15 | \$458,921 | 94% | 0.01 |
| FE-Penn Power | Chiller Tuneup/Diagnostics | Mfg: Chemicals | HVAC | Existing | building | 159,350 | 8.0% | 4.67 | 10 | \$406,893 | 59% | 0.02 |
| FE-Penn Power | Chiller Tuneup/Diagnostics | Mfg: Chemicals | HVAC | New | building | 159,350 | 8.0% | 4.68 | 10 | \$406,893 | 59% | 0.02 |
| FE-Penn Power | Cooling Tower Optimization | Mfg: Chemicals | HVAC | Existing | building | 159,350 | 20% | 11.41 | 10 | \$977 | 69% | 4.73 |
| FE-Penn Power | Duct Insulation, Add R8 | Mfg: Chemicals | HVAC | Existing | building | 159,350 | 1.5% | 0.51 | 15 | \$1,266 | 18% | 0.94 |
| FE-Penn Power | Duct Insulation, Add R8 | Mfg: Chemicals | HVAC | New | building | 159,350 | 1.5% | 0.51 | 15 | \$1,266 | 9% | 0.94 |
| FE-Penn Power | Ductless Heat Pump | Mfg: Chemicals | HVAC | Early | heat pump | 159,350 | 0.8% | 0.30 | 15 | \$12,598 | 83% | 0.06 |
| FE-Penn Power | Ductless Heat Pump | Mfg: Chemicals | HVAC | New | heat pump | 159,350 | 0.4% | 0.16 | 15 | \$3,659 | 83% | 0.10 |
| FE-Penn Power | Ductless Heat Pump | Mfg: Chemicals | HVAC | ROB | heat pump | 159,350 | 0.4% | 0.16 | 15 | \$3,659 | 83% | 0.10 |
| FE-Penn Power | DX Coil Cleaning | Mfg: Chemicals | HVAC | Existing | building | 159,350 | 13% | 7.31 | 1 | \$1,527 | 73% | 0.50 |
| FE-Penn Power | DX Coil Cleaning | Mfg: Chemicals | HVAC | New | building | 159,350 | 13% | 7.31 | 1 | \$1,527 | 73% | 0.50 |
| FE-Penn Power | Efficient Unit Heating System | Mfg: Chemicals | HVAC | Early | heater | 159,350 | 6.9% | 0.09 | 15 | \$8,603 | 83% | 0.52 |
| FE-Penn Power | Efficient Unit Heating System | Mfg: Chemicals | HVAC | New | heater | 159,350 | 4.0% | 0.05 | 15 | \$5,868 | 83% | 0.44 |
| FE-Penn Power | Efficient Unit Heating System | Mfg: Chemicals | HVAC | ROB | heater | 159,350 | 4.0% | 0.05 | 15 | \$5,868 | 83% | 0.44 |
| FE-Penn Power | Ground Source Heat Pump (Closed Loop) | Mfg: Chemicals | HVAC | Early | heat pump | 159,350 | 1.3% | 0.46 | 15 | \$26,159 | 19% | 0.04 |
| FE-Penn Power | Ground Source Heat Pump (Closed Loop) | Mfg: Chemicals | HVAC | New | heat pump | 159,350 | 1.0% | 0.36 | 15 | \$10,329 | 19% | 0.09 |
| FE-Penn Power | Ground Source Heat Pump (Closed Loop) | Mfg: Chemicals | HVAC | ROB | heat pump | 159,350 | 1.0% | 0.36 | 15 | \$10,329 | 19% | 0.09 |
| FE-Penn Power | Ground Source Heat Pump (Open Loop) | Mfg: Chemicals | HVAC | Early | heat pump | 159,350 | 1.3% | 0.46 | 15 | \$16,754 | 19% | 0.07 |
| FE-Penn Power | Ground Source Heat Pump (Open Loop) | Mfg: Chemicals | HVAC | New | heat pump | 159,350 | 1.0% | 0.36 | 15 | \$355 | 19% | 1.92 |
| FE-Penn Power | Ground Source Heat Pump (Open Loop) | Mfg: Chemicals | HVAC | ROB | heat pump | 159,350 | 1.0% | 0.36 | 15 | \$355 | 19% | 1.92 |
| FE-Penn Power | HE Air Cooled Chiller, 100 Tons | Mfg: Chemicals | HVAC | Early | unit (ton) | 159,350 | 1.5% | 0.52 | 15 | \$185,367 | 89% | 0.01 |
| FE-Penn Power | HE Air Cooled Chiller, 100 Tons | Mfg: Chemicals | HVAC | New | unit (ton) | 159,350 | 0.4% | 0.15 | 15 | \$27,005 | 89% | 0.01 |
| FE-Penn Power | HE Air Cooled Chiller, 100 Tons | Mfg: Chemicals | HVAC | ROB | unit (ton) | 159,350 | 0.4% | 0.15 | 15 | \$27,005 | 89% | 0.01 |
| FE-Penn Power | HE Air Cooled Chiller, 150 Tons | Mfg: Chemicals | HVAC | Early | unit (ton) | 159,350 | 1.4% | 0.52 | 15 | \$160,115 | 89% | 0.01 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|----------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | HE Air Cooled Chiller, 150 Tons | Mfg: Chemicals | HVAC | New | unit (ton) | 159,350 | 0.3% | 0.11 | 15 | \$13,262 | 89% | 0.02 |
| FE-Penn Power | HE Air Cooled Chiller, 150 Tons | Mfg: Chemicals | HVAC | ROB | unit (ton) | 159,350 | 0.3% | 0.11 | 15 | \$13,262 | 89% | 0.02 |
| FE-Penn Power | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Chemicals | HVAC | Early | heat pump | 159,350 | 1.4% | 0.49 | 12 | \$6,829 | 81% | 0.15 |
| FE-Penn Power | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Chemicals | HVAC | Early | heat pump | 159,350 | 1.1% | 0.40 | 12 | \$4,989 | 81% | 0.17 |
| FE-Penn Power | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Chemicals | HVAC | New | heat pump | 159,350 | 1.0% | 0.36 | 12 | \$3,049 | 81% | 0.24 |
| FE-Penn Power | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Chemicals | HVAC | New | heat pump | 159,350 | 0.8% | 0.27 | 12 | \$1,066 | 81% | 0.50 |
| FE-Penn Power | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Chemicals | HVAC | ROB | heat pump | 159,350 | 1.0% | 0.36 | 12 | \$3,049 | 81% | 0.24 |
| FE-Penn Power | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Chemicals | HVAC | ROB | heat pump | 159,350 | 0.8% | 0.27 | 12 | \$1,066 | 81% | 0.50 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Chemicals | HVAC | Early | unit (ton) | 159,350 | 1.6% | 0.57 | 15 | \$14,708 | 89% | 0.09 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Chemicals | HVAC | New | unit (ton) | 159,350 | 0.9% | 0.33 | 15 | \$4,892 | 89% | 0.16 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Chemicals | HVAC | ROB | unit (ton) | 159,350 | 0.9% | 0.33 | 15 | \$4,892 | 89% | 0.16 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Chemicals | HVAC | Early | unit (ton) | 159,350 | 1.4% | 0.50 | 15 | \$14,364 | 89% | 0.09 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Chemicals | HVAC | New | unit (ton) | 159,350 | 1.0% | 0.35 | 15 | \$2,805 | 89% | 0.30 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Chemicals | HVAC | ROB | unit (ton) | 159,350 | 1.4% | 0.50 | 15 | \$2,577 | 89% | 0.46 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Chemicals | HVAC | Early | unit (ton) | 159,350 | 1.4% | 0.50 | 15 | \$17,001 | 89% | 0.07 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Chemicals | HVAC | New | unit (ton) | 159,350 | 0.9% | 0.32 | 15 | \$7,158 | 89% | 0.11 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Chemicals | HVAC | ROB | unit (ton) | 159,350 | 1.4% | 0.50 | 15 | \$6,478 | 89% | 0.19 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Chemicals | HVAC | Early | unit (ton) | 159,350 | 1.4% | 0.50 | 15 | \$16,377 | 89% | 0.07 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Chemicals | HVAC | New | unit (ton) | 159,350 | 0.9% | 0.32 | 15 | \$6,222 | 89% | 0.12 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Chemicals | HVAC | ROB | unit (ton) | 159,350 | 1.4% | 0.50 | 15 | \$5,631 | 89% | 0.21 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Chemicals | HVAC | Early | unit (ton) | 159,350 | 1.8% | 0.65 | 15 | \$17,646 | 89% | 0.09 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Chemicals | HVAC | New | unit (ton) | 159,350 | 0.5% | 0.20 | 15 | \$10,927 | 89% | 0.04 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Chemicals | HVAC | ROB | unit (ton) | 159,350 | 1.8% | 0.65 | 15 | \$8,484 | 89% | 0.18 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Chemicals | HVAC | Early | unit (ton) | 159,350 | 2.1% | 0.77 | 15 | \$16,231 | 89% | 0.12 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Chemicals | HVAC | New | unit (ton) | 159,350 | 0.8% | 0.28 | 15 | \$6,513 | 89% | 0.10 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Chemicals | HVAC | ROB | unit (ton) | 159,350 | 0.8% | 0.28 | 15 | \$6,513 | 89% | 0.10 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Chemicals | HVAC | Early | unit (ton) | 159,350 | 2.4% | 0.86 | 15 | \$13,756 | 89% | 0.15 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Chemicals | HVAC | New | unit (ton) | 159,350 | 0.9% | 0.32 | 15 | \$3,461 | 89% | 0.22 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Chemicals | HVAC | ROB | unit (ton) | 159,350 | 2.4% | 0.86 | 15 | \$2,468 | 89% | 0.78 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Chemicals | HVAC | Early | unit (ton) | 159,350 | 1.8% | 0.65 | 15 | \$13,618 | 89% | 0.12 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Chemicals | HVAC | New | unit (ton) | 159,350 | 0.7% | 0.24 | 15 | \$3,813 | 89% | 0.16 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Chemicals | HVAC | ROB | unit (ton) | 159,350 | 1.8% | 0.65 | 15 | \$3,021 | 89% | 0.50 |
| FE-Penn Power | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Chemicals | HVAC | Existing | building | 159,350 | 2.9% | 0.94 | 5 | \$1,691 | 55% | 0.56 |
| FE-Penn Power | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Chemicals | HVAC | New | building | 159,350 | 0.6% | 0.37 | 5 | \$1,014 | 51% | 0.27 |
| FE-Penn Power | Improved Controls - HVAC | Mfg: Chemicals | HVAC | Existing | end use | 159,350 | 21% | 4.78 | 10 | \$1,675 | 76% | 3.21 |
| FE-Penn Power | Improved Controls - HVAC | Mfg: Chemicals | HVAC | New | end use | 159,350 | 21% | 4.78 | 10 | \$1,675 | 76% | 3.21 |
| FE-Penn Power | Outside Air Economizer | Mfg: Chemicals | HVAC | Existing | building | 159,350 | 1.1% | 0.45 | 10 | \$585,484 | 82% | 0.00 |
| FE-Penn Power | Outside Air Economizer | Mfg: Chemicals | HVAC | New | building | 159,350 | 1.1% | 0.45 | 10 | \$585,484 | 82% | 0.00 |
| FE-Penn Power | Recommissioning | Mfg: Chemicals | HVAC | Existing | end use | 159,350 | 5.0% | 1.14 | 10 | \$219 | 88% | 3.96 |
| FE-Penn Power | Recommissioning | Mfg: Chemicals | HVAC | New | end use | 159,350 | 5.0% | 1.14 | 10 | \$219 | 88% | 3.96 |
| FE-Penn Power | Room AC (with louvered sides) | Mfg: Chemicals | HVAC | Early | unit (ton) | 159,350 | 7.7% | 2.77 | 9 | \$12,495 | 78% | 0.36 |
| FE-Penn Power | Room AC (with louvered sides) | Mfg: Chemicals | HVAC | New | unit (ton) | 159,350 | 2.6% | 0.92 | 9 | \$684 | 78% | 1.66 |
| FE-Penn Power | Room AC (with louvered sides) | Mfg: Chemicals | HVAC | ROB | unit (ton) | 159,350 | 2.6% | 0.92 | 9 | \$684 | 78% | 1.66 |
| FE-Penn Power | Variable Refrigerant Flow Heat Pump | Mfg: Chemicals | HVAC | New | measure | 159,350 | 0.1% | 0.04 | 13 | \$1,173 | 43% | 0.08 |
| FE-Penn Power | Variable Refrigerant Flow Heat Pump | Mfg: Chemicals | HVAC | ROB | measure | 159,350 | 0.1% | 0.04 | 13 | \$1,173 | 43% | 0.08 |
| FE-Penn Power | VFD on Cooling Tower Fan | Mfg: Chemicals | HVAC | Early | motor | 159,350 | 21% | 10.05 | 15 | \$7,358 | 15% | 2.07 |
| FE-Penn Power | VFD on Cooling Tower Fan | Mfg: Chemicals | HVAC | New | motor | 159,350 | 22% | 10.05 | 15 | \$7,498 | 15% | 2.06 |
| FE-Penn Power | VFD on Cooling Tower Fan | Mfg: Chemicals | HVAC | ROB | motor | 159,350 | 22% | 10.05 | 15 | \$7,498 | 15% | 2.06 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Mfg: Chemicals | HVAC | Existing | building | 159,350 | 19% | 7.62 | 15 | \$113,356 | 26% | 0.15 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Mfg: Chemicals | HVAC | New | building | 159,350 | 0.6% | 0.24 | 15 | \$86,950 | 94% | 0.01 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---------------------------------------|----------------|----------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Water Source Heat Pump (4 ton) | Mfg: Chemicals | HVAC | Early | heat pump | 159,350 | 1.5% | 0.55 | 15 | \$27,089 | 28% | 0.05 |
| FE-Penn Power | Water Source Heat Pump (4 ton) | Mfg: Chemicals | HVAC | New | heat pump | 159,350 | 1.1% | 0.40 | 15 | \$13,203 | 28% | 0.07 |
| FE-Penn Power | Water Source Heat Pump (4 ton) | Mfg: Chemicals | HVAC | ROB | heat pump | 159,350 | 1.1% | 0.40 | 15 | \$13,203 | 28% | 0.07 |
| FE-Penn Power | Efficient Metal Halide (High Bay) | Mfg: Chemicals | Lighting | Early | end use | 93,256 | 42% | 0.00 | 9 | \$14,572 | 53% | 0.67 |
| FE-Penn Power | Efficient Metal Halide (High Bay) | Mfg: Chemicals | Lighting | New | end use | 93,256 | 41% | 0.00 | 13 | \$389,234 | 61% | 0.04 |
| FE-Penn Power | Efficient Metal Halide (High Bay) | Mfg: Chemicals | Lighting | ROB | end use | 93,256 | 41% | 0.00 | 13 | \$297,474 | 61% | 0.05 |
| FE-Penn Power | Induction (High Bay) | Mfg: Chemicals | Lighting | Early | end use | 93,256 | 94% | 0.00 | 13 | \$43,359 | 95% | 0.68 |
| FE-Penn Power | Induction (High Bay) | Mfg: Chemicals | Lighting | New | end use | 93,256 | 94% | 0.00 | 13 | \$40,595 | 95% | 0.72 |
| FE-Penn Power | Induction (High Bay) | Mfg: Chemicals | Lighting | ROB | end use | 93,256 | 94% | 0.00 | 13 | \$30,854 | 95% | 0.92 |
| FE-Penn Power | LED (High Bay) | Mfg: Chemicals | Lighting | Early | end use | 93,256 | 69% | 0.00 | 14 | \$51,040 | 95% | 0.47 |
| FE-Penn Power | LED (High Bay) | Mfg: Chemicals | Lighting | New | end use | 93,256 | 55% | 0.00 | 14 | \$56,653 | 95% | 0.35 |
| FE-Penn Power | LED (High Bay) | Mfg: Chemicals | Lighting | ROB | end use | 93,256 | 59% | 0.00 | 14 | \$37,328 | 95% | 0.54 |
| FE-Penn Power | Lighting Controls | Mfg: Chemicals | Lighting | Existing | end use | 93,256 | 20% | 0.00 | 6 | \$349,607 | 16% | 0.01 |
| FE-Penn Power | Lighting Controls | Mfg: Chemicals | Lighting | New | end use | 93,256 | 12% | 0.00 | 10 | \$465,092 | 11% | 0.01 |
| FE-Penn Power | Linear Fluorescent (High Bay) | Mfg: Chemicals | Lighting | Early | end use | 93,256 | 17% | 0.00 | 14 | \$10,671 | 98% | 0.54 |
| FE-Penn Power | Linear Fluorescent (High Bay) | Mfg: Chemicals | Lighting | New | end use | 93,256 | 13% | 0.00 | 14 | \$3,384 | 91% | 1.15 |
| FE-Penn Power | Linear Fluorescent (High Bay) | Mfg: Chemicals | Lighting | ROB | end use | 93,256 | 13% | 0.00 | 14 | \$2,166 | 91% | 1.66 |
| FE-Penn Power | Metal Halide (High Bay) | Mfg: Chemicals | Lighting | Early | end use | 93,256 | 62% | 0.00 | 13 | \$64,108 | 38% | 0.33 |
| FE-Penn Power | Metal Halide (High Bay) | Mfg: Chemicals | Lighting | New | end use | 93,256 | 73% | 0.00 | 13 | \$15,327 | 38% | 1.30 |
| FE-Penn Power | Metal Halide (High Bay) | Mfg: Chemicals | Lighting | ROB | end use | 93,256 | 73% | 0.00 | 13 | \$11,649 | 38% | 1.59 |
| FE-Penn Power | Screw Base CFL | Mfg: Chemicals | Lighting | Early | end use | 93,256 | 80% | 0.00 | 7 | \$25,336 | 17% | 0.60 |
| FE-Penn Power | Screw Base CFL | Mfg: Chemicals | Lighting | New | end use | 93,256 | 73% | 0.00 | 9 | \$20,705 | 18% | 0.79 |
| FE-Penn Power | Screw Base CFL | Mfg: Chemicals | Lighting | ROB | end use | 93,256 | 73% | 0.00 | 9 | \$17,330 | 17% | 0.91 |
| FE-Penn Power | Screw Base LED | Mfg: Chemicals | Lighting | Early | end use | 93,256 | 76% | 0.00 | 9 | \$15,549 | 21% | 1.06 |
| FE-Penn Power | Screw Base LED | Mfg: Chemicals | Lighting | New | end use | 93,256 | 77% | 0.00 | 9 | \$8,662 | 20% | 1.61 |
| FE-Penn Power | Screw Base LED | Mfg: Chemicals | Lighting | ROB | end use | 93,256 | 77% | 0.00 | 9 | \$6,876 | 21% | 1.85 |
| FE-Penn Power | T8 High Performance Linear Florescent | Mfg: Chemicals | Lighting | Early | end use | 93,256 | 36% | 0.00 | 14 | \$8,924 | 71% | 1.22 |
| FE-Penn Power | T8 High Performance Linear Florescent | Mfg: Chemicals | Lighting | New | end use | 93,256 | 26% | 0.00 | 14 | \$3,193 | 76% | 2.05 |
| FE-Penn Power | T8 High Performance Linear Florescent | Mfg: Chemicals | Lighting | ROB | end use | 93,256 | 26% | 0.00 | 14 | \$2,427 | 76% | 2.42 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Chemicals | Motors | Early | end use | 125,801 | 0.9% | 0.16 | 15 | \$1,922 | 81% | 0.28 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Chemicals | Motors | New | end use | 125,801 | 0.9% | 0.16 | 15 | \$1,922 | 81% | 0.28 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Chemicals | Motors | ROB | end use | 125,801 | 0.9% | 0.16 | 15 | \$1,922 | 81% | 0.28 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Chemicals | Motors | Early | end use | 125,801 | 0.7% | 0.13 | 15 | \$1,167 | 73% | 0.37 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Chemicals | Motors | New | end use | 125,801 | 0.8% | 0.13 | 15 | \$1,167 | 73% | 0.38 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Chemicals | Motors | ROB | end use | 125,801 | 0.8% | 0.13 | 15 | \$1,167 | 73% | 0.38 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Chemicals | Motors | Early | end use | 125,801 | 0.4% | 0.08 | 15 | \$447 | 81% | 0.56 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Chemicals | Motors | New | end use | 125,801 | 0.5% | 0.08 | 15 | \$447 | 81% | 0.57 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Chemicals | Motors | ROB | end use | 125,801 | 0.5% | 0.08 | 15 | \$447 | 81% | 0.58 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Chemicals | Motors | Early | end use | 125,801 | 0.4% | 0.07 | 15 | \$148 | 73% | 1.34 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Chemicals | Motors | New | end use | 125,801 | 0.4% | 0.07 | 15 | \$148 | 73% | 1.31 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Chemicals | Motors | ROB | end use | 125,801 | 0.4% | 0.07 | 15 | \$148 | 73% | 1.36 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Chemicals | Motors | Early | end use | 125,801 | 0.9% | 0.16 | 15 | \$221 | 47% | 1.86 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Chemicals | Motors | New | end use | 125,801 | 0.9% | 0.16 | 15 | \$221 | 47% | 1.88 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Chemicals | Motors | ROB | end use | 125,801 | 0.9% | 0.16 | 15 | \$221 | 47% | 1.87 |
| FE-Penn Power | Facility Energy Management | Mfg: Chemicals | Motors | Existing | end use | 125,801 | 1.9% | 0.33 | 2 | \$48 | 77% | 1.09 |
| FE-Penn Power | Facility Energy Management | Mfg: Chemicals | Motors | New | end use | 125,801 | 1.9% | 0.33 | 2 | \$48 | 77% | 1.09 |
| FE-Penn Power | HE Motors | Mfg: Chemicals | Motors | Early | end use | 125,801 | 2.0% | 0.37 | 15 | \$749 | 38% | 1.34 |
| FE-Penn Power | HE Motors | Mfg: Chemicals | Motors | New | end use | 125,801 | 2.0% | 0.37 | 15 | \$749 | 38% | 1.34 |
| FE-Penn Power | HE Motors | Mfg: Chemicals | Motors | ROB | end use | 125,801 | 2.0% | 0.37 | 15 | \$749 | 38% | 1.34 |
| FE-Penn Power | High-Efficiency Ventilation System | Mfg: Chemicals | Motors | Early | end use | 125,801 | 5.7% | 1.02 | 10 | \$7,862 | 73% | 0.31 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|--|----------------|------------------------|----------|---------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | High-Efficiency Ventilation System | Mfg: Chemicals | Motors | New | end use | 125,801 | 5.7% | 1.02 | 10 | \$7,862 | 73% | 0.31 |
| FE-Penn Power | High-Efficiency Ventilation System | Mfg: Chemicals | Motors | ROB | end use | 125,801 | 5.7% | 1.02 | 10 | \$7,862 | 73% | 0.31 |
| FE-Penn Power | Improved Controls - Motors | Mfg: Chemicals | Motors | Existing | end use | 125,801 | 4.0% | 0.71 | 10 | \$547 | 73% | 2.03 |
| FE-Penn Power | Improved Controls - Motors | Mfg: Chemicals | Motors | New | end use | 125,801 | 4.0% | 0.71 | 10 | \$547 | 73% | 2.03 |
| FE-Penn Power | Motor Management Plan | Mfg: Chemicals | Motors | Existing | end use | 125,801 | 2.9% | 0.52 | 10 | \$257 | 73% | 2.60 |
| FE-Penn Power | Motor Management Plan | Mfg: Chemicals | Motors | New | end use | 125,801 | 2.9% | 0.52 | 10 | \$257 | 73% | 2.60 |
| FE-Penn Power | Motors Other | Mfg: Chemicals | Motors | Existing | end use | 125,801 | 1.1% | 0.20 | 15 | \$25 | 83% | 5.48 |
| FE-Penn Power | Motors Other | Mfg: Chemicals | Motors | New | end use | 125,801 | 1.1% | 0.20 | 15 | \$25 | 83% | 5.48 |
| FE-Penn Power | Motors: Rewind 101-200 HP | Mfg: Chemicals | Motors | Existing | end use | 125,801 | 0.6% | 0.10 | 10 | \$159 | 27% | 1.25 |
| FE-Penn Power | Motors: Rewind 101-200 HP | Mfg: Chemicals | Motors | New | end use | 125,801 | 0.6% | 0.10 | 10 | \$159 | 27% | 1.24 |
| FE-Penn Power | Motors: Rewind 201-500 HP | Mfg: Chemicals | Motors | Existing | end use | 125,801 | 0.6% | 0.10 | 8 | \$100 | 27% | 1.47 |
| FE-Penn Power | Motors: Rewind 201-500 HP | Mfg: Chemicals | Motors | New | end use | 125,801 | 0.6% | 0.10 | 8 | \$100 | 27% | 1.47 |
| FE-Penn Power | Motors: Rewind 20-50 HP | Mfg: Chemicals | Motors | Existing | end use | 125,801 | 1.0% | 0.19 | 11 | \$467 | 42% | 0.92 |
| FE-Penn Power | Motors: Rewind 20-50 HP | Mfg: Chemicals | Motors | New | end use | 125,801 | 1.0% | 0.19 | 11 | \$467 | 42% | 0.91 |
| FE-Penn Power | Motors: Rewind 500+ HP | Mfg: Chemicals | Motors | Existing | end use | 125,801 | 0.6% | 0.10 | 8 | \$71 | 11% | 1.85 |
| FE-Penn Power | Motors: Rewind 500+ HP | Mfg: Chemicals | Motors | New | end use | 125,801 | 0.6% | 0.10 | 8 | \$71 | 11% | 1.83 |
| FE-Penn Power | Motors: Rewind 51-100 HP | Mfg: Chemicals | Motors | Existing | end use | 125,801 | 0.6% | 0.11 | 9 | \$231 | 42% | 0.92 |
| FE-Penn Power | Motors: Rewind 51-100 HP | Mfg: Chemicals | Motors | New | end use | 125,801 | 0.6% | 0.11 | 9 | \$231 | 42% | 0.91 |
| FE-Penn Power | Switch from Belt drive to Direct Drive | Mfg: Chemicals | Motors | Early | end use | 125,801 | 7.5% | 1.35 | 12 | \$2,018 | 30% | 1.45 |
| FE-Penn Power | Switch from Belt drive to Direct Drive | Mfg: Chemicals | Motors | New | end use | 125,801 | 7.5% | 1.35 | 12 | \$2,018 | 30% | 1.45 |
| FE-Penn Power | Switch from Belt drive to Direct Drive | Mfg: Chemicals | Motors | ROB | end use | 125,801 | 7.5% | 1.35 | 12 | \$2,018 | 30% | 1.45 |
| FE-Penn Power | Synchronous Belts | Mfg: Chemicals | Motors | Early | end use | 125,801 | 1.2% | 0.21 | 10 | \$185 | 30% | 1.86 |
| FE-Penn Power | Synchronous Belts | Mfg: Chemicals | Motors | New | end use | 125,801 | 1.2% | 0.21 | 10 | \$185 | 30% | 1.86 |
| FE-Penn Power | Synchronous Belts | Mfg: Chemicals | Motors | ROB | end use | 125,801 | 1.2% | 0.21 | 10 | \$185 | 30% | 1.86 |
| FE-Penn Power | Bldg Improvements | Mfg: Chemicals | Other | Existing | end use | 42,838 | 16% | 0.83 | 15 | \$934 | 72% | 2.31 |
| FE-Penn Power | Bldg Improvements | Mfg: Chemicals | Other | New | end use | 42,838 | 16% | 0.83 | 15 | \$934 | 72% | 2.31 |
| FE-Penn Power | Energy Project Management | Mfg: Chemicals | Other | Existing | end use | 42,838 | 29% | 1.48 | 11 | \$1,529 | 63% | 1.95 |
| FE-Penn Power | Energy Project Management | Mfg: Chemicals | Other | New | end use | 42,838 | 29% | 1.48 | 11 | \$1,529 | 63% | 1.95 |
| FE-Penn Power | Facility Energy Management | Mfg: Chemicals | Other | Existing | end use | 42,838 | 1.9% | 0.09 | 2 | \$17 | 76% | 1.06 |
| FE-Penn Power | Facility Energy Management | Mfg: Chemicals | Other | New | end use | 42,838 | 1.9% | 0.09 | 2 | \$17 | 76% | 1.06 |
| FE-Penn Power | Integrated Plant Energy Management | Mfg: Chemicals | Other | Existing | end use | 42,838 | 50% | 2.55 | 11 | \$4,222 | 48% | 1.41 |
| FE-Penn Power | Integrated Plant Energy Management | Mfg: Chemicals | Other | New | end use | 42,838 | 50% | 2.55 | 11 | \$4,222 | 48% | 1.41 |
| FE-Penn Power | Plant Energy Management | Mfg: Chemicals | Other | Existing | end use | 42,838 | 12% | 0.61 | 10 | \$108 | 55% | 3.90 |
| FE-Penn Power | Plant Energy Management | Mfg: Chemicals | Other | New | end use | 42,838 | 12% | 0.61 | 10 | \$108 | 55% | 3.90 |
| FE-Penn Power | Transformers | Mfg: Chemicals | Other | Early | end use | 42,838 | 1.6% | 0.08 | 15 | \$137 | 34% | 1.71 |
| FE-Penn Power | Transformers | Mfg: Chemicals | Other | New | end use | 42,838 | 1.6% | 0.08 | 15 | \$137 | 34% | 1.71 |
| FE-Penn Power | Transformers | Mfg: Chemicals | Other | ROB | end use | 42,838 | 1.6% | 0.08 | 15 | \$137 | 34% | 1.72 |
| FE-Penn Power | Air Compressor Demand Reduction | Mfg: Chemicals | Process Air Compressor | Existing | end use | 1,514 | 26% | 0.05 | 10 | \$23 | 52% | 2.80 |
| FE-Penn Power | Air Compressor Demand Reduction | Mfg: Chemicals | Process Air Compressor | New | end use | 1,514 | 26% | 0.05 | 10 | \$23 | 52% | 2.80 |
| FE-Penn Power | Facility Energy Management | Mfg: Chemicals | Process Air Compressor | Existing | end use | 1,514 | 2.0% | 0.00 | 2 | \$0.6 | 66% | 1.08 |
| FE-Penn Power | Facility Energy Management | Mfg: Chemicals | Process Air Compressor | New | end use | 1,514 | 1.9% | 0.00 | 2 | \$0.6 | 66% | 1.08 |
| FE-Penn Power | HE Compressor motors | Mfg: Chemicals | Process Air Compressor | Early | end use | 1,514 | 1.1% | 0.00 | 15 | \$5.7 | 73% | 1.16 |
| FE-Penn Power | HE Compressor motors | Mfg: Chemicals | Process Air Compressor | New | end use | 1,514 | 1.1% | 0.00 | 15 | \$5.7 | 73% | 1.16 |
| FE-Penn Power | HE Compressor motors | Mfg: Chemicals | Process Air Compressor | ROB | end use | 1,514 | 1.1% | 0.00 | 15 | \$5.7 | 73% | 1.16 |
| FE-Penn Power | Improved Controls - Air Compressor | Mfg: Chemicals | Process Air Compressor | Existing | end use | 1,514 | 41% | 0.08 | 10 | \$27 | 25% | 3.15 |
| FE-Penn Power | Improved Controls - Air Compressor | Mfg: Chemicals | Process Air Compressor | New | end use | 1,514 | 41% | 0.08 | 10 | \$27 | 25% | 3.15 |
| FE-Penn Power | Low Pressure-drop Filters | Mfg: Chemicals | Process Air Compressor | Existing | end use | 1,514 | 1.8% | 0.00 | 10 | \$17 | 61% | 0.53 |
| FE-Penn Power | Low Pressure-drop Filters | Mfg: Chemicals | Process Air Compressor | New | end use | 1,514 | 1.8% | 0.00 | 10 | \$17 | 61% | 0.53 |
| FE-Penn Power | Outside Air Intake | Mfg: Chemicals | Process Air Compressor | Existing | end use | 1,514 | 1.4% | 0.00 | 10 | \$10.0 | 48% | 0.68 |
| FE-Penn Power | Outside Air Intake | Mfg: Chemicals | Process Air Compressor | New | end use | 1,514 | 1.4% | 0.00 | 10 | \$10.0 | 48% | 0.68 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---------------------------------------|----------------|------------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Receiver Capacity Addition | Mfg: Chemicals | Process Air Compressor | Existing | end use | 1,514 | 6.0% | 0.01 | 10 | \$28 | 36% | 0.94 |
| FE-Penn Power | Receiver Capacity Addition | Mfg: Chemicals | Process Air Compressor | New | end use | 1,514 | 5.9% | 0.01 | 10 | \$28 | 36% | 0.94 |
| FE-Penn Power | Refrigerated Cycling Dryers | Mfg: Chemicals | Process Air Compressor | Early | end use | 1,514 | 1.7% | 0.00 | 10 | \$3.5 | 21% | 1.73 |
| FE-Penn Power | Refrigerated Cycling Dryers | Mfg: Chemicals | Process Air Compressor | New | end use | 1,514 | 1.7% | 0.00 | 10 | \$3.5 | 21% | 1.73 |
| FE-Penn Power | Refrigerated Cycling Dryers | Mfg: Chemicals | Process Air Compressor | ROB | end use | 1,514 | 1.7% | 0.00 | 10 | \$3.5 | 21% | 1.74 |
| FE-Penn Power | VFD Controlled Compressor | Mfg: Chemicals | Process Air Compressor | Early | end use | 1,514 | 24% | 0.05 | 10 | \$149 | 28% | 0.74 |
| FE-Penn Power | VFD Controlled Compressor | Mfg: Chemicals | Process Air Compressor | New | end use | 1,514 | 24% | 0.05 | 10 | \$149 | 28% | 0.74 |
| FE-Penn Power | VFD Controlled Compressor | Mfg: Chemicals | Process Air Compressor | ROB | end use | 1,514 | 24% | 0.05 | 10 | \$149 | 28% | 0.74 |
| FE-Penn Power | Zero Loss Condensate Drain | Mfg: Chemicals | Process Air Compressor | Early | end use | 1,514 | 1.9% | 0.00 | 10 | \$8.7 | 36% | 0.95 |
| FE-Penn Power | Zero Loss Condensate Drain | Mfg: Chemicals | Process Air Compressor | New | end use | 1,514 | 1.9% | 0.00 | 10 | \$8.7 | 36% | 0.95 |
| FE-Penn Power | Zero Loss Condensate Drain | Mfg: Chemicals | Process Air Compressor | ROB | end use | 1,514 | 1.9% | 0.00 | 10 | \$8.7 | 36% | 0.95 |
| FE-Penn Power | Clean Room: Change Filter Strategy | Mfg: Chemicals | Process Cooling | Existing | end use | 124,014 | 40% | 10.34 | 1 | \$322 | 13% | 0.78 |
| FE-Penn Power | Clean Room: Change Filter Strategy | Mfg: Chemicals | Process Cooling | New | end use | 124,014 | 40% | 10.34 | 1 | \$322 | 13% | 0.78 |
| FE-Penn Power | Clean Room: Chiller Optimize | Mfg: Chemicals | Process Cooling | Existing | end use | 124,014 | 15% | 3.83 | 10 | \$1,497 | 21% | 2.53 |
| FE-Penn Power | Clean Room: Chiller Optimize | Mfg: Chemicals | Process Cooling | New | end use | 124,014 | 15% | 3.83 | 10 | \$1,497 | 21% | 2.53 |
| FE-Penn Power | Clean Room: Clean Room HVAC | Mfg: Chemicals | Process Cooling | Existing | end use | 124,014 | 9.0% | 2.33 | 15 | \$1,807 | 31% | 2.19 |
| FE-Penn Power | Clean Room: Clean Room HVAC | Mfg: Chemicals | Process Cooling | New | end use | 124,014 | 9.0% | 2.33 | 15 | \$1,807 | 31% | 2.19 |
| FE-Penn Power | Cooling Tower Optimization | Mfg: Chemicals | Process Cooling | Existing | building | 124,014 | 20% | 8.88 | 10 | \$761 | 15% | 4.44 |
| FE-Penn Power | Equipment: Chillers | Mfg: Chemicals | Process Cooling | Early | end use | 124,014 | 18% | 4.62 | 15 | \$5,820 | 39% | 1.53 |
| FE-Penn Power | Equipment: Chillers | Mfg: Chemicals | Process Cooling | New | end use | 124,014 | 18% | 4.62 | 15 | \$5,820 | 39% | 1.53 |
| FE-Penn Power | Equipment: Chillers | Mfg: Chemicals | Process Cooling | ROB | end use | 124,014 | 18% | 4.62 | 15 | \$5,820 | 39% | 1.53 |
| FE-Penn Power | Facility Energy Management | Mfg: Chemicals | Process Cooling | Existing | end use | 124,014 | 1.9% | 0.48 | 2 | \$48 | 50% | 1.15 |
| FE-Penn Power | Facility Energy Management | Mfg: Chemicals | Process Cooling | New | end use | 124,014 | 1.9% | 0.48 | 2 | \$48 | 50% | 1.15 |
| FE-Penn Power | Improved Controls - Process Cooling | Mfg: Chemicals | Process Cooling | Existing | end use | 124,014 | 6.0% | 1.55 | 10 | \$6,548 | 47% | 0.40 |
| FE-Penn Power | Improved Controls - Process Cooling | Mfg: Chemicals | Process Cooling | New | end use | 124,014 | 6.0% | 1.55 | 10 | \$6,548 | 47% | 0.41 |
| FE-Penn Power | VFD on Cooling Tower Fan | Mfg: Chemicals | Process Cooling | Early | motor | 124,014 | 21% | 7.82 | 15 | \$5,726 | 20% | 1.93 |
| FE-Penn Power | VFD on Cooling Tower Fan | Mfg: Chemicals | Process Cooling | New | motor | 124,014 | 22% | 7.82 | 15 | \$5,836 | 20% | 1.92 |
| FE-Penn Power | VFD on Cooling Tower Fan | Mfg: Chemicals | Process Cooling | ROB | motor | 124,014 | 22% | 7.82 | 15 | \$5,836 | 20% | 1.92 |
| FE-Penn Power | Improved Controls - Process Heating | Mfg: Chemicals | Process Heating | Existing | end use | 94,233 | 17% | 2.21 | 10 | \$1,083 | 77% | 2.58 |
| FE-Penn Power | Improved Controls - Process Heating | Mfg: Chemicals | Process Heating | New | end use | 94,233 | 17% | 2.21 | 10 | \$1,083 | 77% | 2.58 |
| FE-Penn Power | Process Heat O&M | Mfg: Chemicals | Process Heating | Existing | end use | 94,233 | 16% | 2.09 | 2 | \$654 | 77% | 0.85 |
| FE-Penn Power | Process Heat O&M | Mfg: Chemicals | Process Heating | New | end use | 94,233 | 16% | 2.09 | 2 | \$654 | 77% | 0.85 |
| FE-Penn Power | Facility Energy Management | Mfg: Chemicals | Process Other | Existing | end use | 382,288 | 1.9% | 0.99 | 2 | \$147 | 73% | 1.06 |
| FE-Penn Power | Facility Energy Management | Mfg: Chemicals | Process Other | New | end use | 382,288 | 1.9% | 0.99 | 2 | \$147 | 73% | 1.06 |
| FE-Penn Power | Adjustable speed drive on compressors | Mfg: Chemicals | Process Refrigeration | Early | end use | 63,705 | 12% | 1.09 | 10 | \$1,178 | 77% | 1.61 |
| FE-Penn Power | Adjustable speed drive on compressors | Mfg: Chemicals | Process Refrigeration | New | end use | 63,705 | 12% | 1.09 | 10 | \$1,178 | 77% | 1.61 |
| FE-Penn Power | Adjustable speed drive on compressors | Mfg: Chemicals | Process Refrigeration | ROB | end use | 63,705 | 12% | 1.09 | 10 | \$1,178 | 77% | 1.61 |
| FE-Penn Power | Cooling Tower Optimization | Mfg: Chemicals | Process Refrigeration | Existing | building | 63,705 | 20% | 4.56 | 10 | \$391 | 15% | 4.44 |
| FE-Penn Power | Optimization of operating parameters | Mfg: Chemicals | Process Refrigeration | Existing | end use | 63,705 | 13% | 1.22 | 3 | \$514 | 69% | 1.07 |
| FE-Penn Power | Optimization of operating parameters | Mfg: Chemicals | Process Refrigeration | New | end use | 63,705 | 13% | 1.22 | 3 | \$514 | 69% | 1.07 |
| FE-Penn Power | Synchronous Belts | Mfg: Chemicals | Process Refrigeration | Early | end use | 63,705 | 1.2% | 0.11 | 10 | \$94 | 77% | 1.87 |
| FE-Penn Power | Synchronous Belts | Mfg: Chemicals | Process Refrigeration | New | end use | 63,705 | 1.2% | 0.11 | 10 | \$94 | 77% | 1.87 |
| FE-Penn Power | Synchronous Belts | Mfg: Chemicals | Process Refrigeration | ROB | end use | 63,705 | 1.2% | 0.11 | 10 | \$94 | 77% | 1.87 |
| FE-Penn Power | VFD on Cooling Tower Fan | Mfg: Chemicals | Process Refrigeration | Early | motor | 63,705 | 21% | 4.02 | 15 | \$2,942 | 20% | 1.93 |
| FE-Penn Power | VFD on Cooling Tower Fan | Mfg: Chemicals | Process Refrigeration | New | motor | 63,705 | 22% | 4.02 | 15 | \$2,998 | 20% | 1.92 |
| FE-Penn Power | VFD on Cooling Tower Fan | Mfg: Chemicals | Process Refrigeration | ROB | motor | 63,705 | 22% | 4.02 | 15 | \$2,998 | 20% | 1.92 |
| FE-Penn Power | Facility Energy Management | Mfg: Chemicals | Pumps | Existing | end use | 705,185 | 1.9% | 1.69 | 2 | \$272 | 69% | 1.13 |
| FE-Penn Power | Facility Energy Management | Mfg: Chemicals | Pumps | New | end use | 705,185 | 2.0% | 1.69 | 2 | \$272 | 69% | 1.13 |
| FE-Penn Power | HE Motors | Mfg: Chemicals | Pumps | Early | end use | 705,185 | 2.0% | 1.88 | 15 | \$4,198 | 73% | 1.32 |
| FE-Penn Power | HE Motors | Mfg: Chemicals | Pumps | New | end use | 705,185 | 2.0% | 1.88 | 15 | \$4,198 | 73% | 1.32 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|--|------------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | HE Motors | Mfg: Chemicals | Pumps | ROB | end use | 705,185 | 2.0% | 1.88 | 15 | \$4,198 | 73% | 1.32 |
| FE-Penn Power | Motor rewinds | Mfg: Chemicals | Pumps | Existing | end use | 705,185 | 0.6% | 0.55 | 9 | \$1,003 | 11% | 1.15 |
| FE-Penn Power | Motor rewinds | Mfg: Chemicals | Pumps | New | end use | 705,185 | 0.6% | 0.55 | 9 | \$1,003 | 11% | 1.15 |
| FE-Penn Power | Pump Equipment Upgrade | Mfg: Chemicals | Pumps | Early | end use | 705,185 | 20% | 18.35 | 12 | \$17,630 | 81% | 2.08 |
| FE-Penn Power | Pump Equipment Upgrade | Mfg: Chemicals | Pumps | New | end use | 705,185 | 20% | 18.35 | 12 | \$17,630 | 81% | 2.08 |
| FE-Penn Power | Pump Equipment Upgrade | Mfg: Chemicals | Pumps | ROB | end use | 705,185 | 20% | 18.35 | 12 | \$17,630 | 81% | 2.08 |
| FE-Penn Power | Pump System Optimization | Mfg: Chemicals | Pumps | Existing | end use | 705,185 | 8.7% | 7.98 | 12 | \$12,912 | 38% | 1.51 |
| FE-Penn Power | Pump System Optimization | Mfg: Chemicals | Pumps | New | end use | 705,185 | 8.7% | 7.98 | 12 | \$12,912 | 38% | 1.51 |
| FE-Penn Power | Synchronous Belts | Mfg: Chemicals | Pumps | Early | end use | 705,185 | 1.2% | 1.07 | 10 | \$1,039 | 61% | 1.83 |
| FE-Penn Power | Synchronous Belts | Mfg: Chemicals | Pumps | New | end use | 705,185 | 1.2% | 1.07 | 10 | \$1,039 | 61% | 1.83 |
| FE-Penn Power | Synchronous Belts | Mfg: Chemicals | Pumps | ROB | end use | 705,185 | 1.2% | 1.07 | 10 | \$1,039 | 61% | 1.83 |
| FE-Penn Power | Circulating Fans | Mfg: Comp & Elec | Fans | Early | end use | 22,507 | 5.0% | 0.13 | 10 | \$137 | 68% | 1.94 |
| FE-Penn Power | Circulating Fans | Mfg: Comp & Elec | Fans | New | end use | 22,507 | 5.0% | 0.13 | 10 | \$137 | 68% | 1.94 |
| FE-Penn Power | Circulating Fans | Mfg: Comp & Elec | Fans | ROB | end use | 22,507 | 5.0% | 0.13 | 10 | \$137 | 68% | 1.94 |
| FE-Penn Power | Facility Energy Management | Mfg: Comp & Elec | Fans | Existing | end use | 22,507 | 1.9% | 0.05 | 2 | \$8.7 | 77% | 1.11 |
| FE-Penn Power | Facility Energy Management | Mfg: Comp & Elec | Fans | New | end use | 22,507 | 1.9% | 0.05 | 2 | \$8.7 | 77% | 1.11 |
| FE-Penn Power | HE Motors | Mfg: Comp & Elec | Fans | Early | end use | 22,507 | 2.0% | 0.05 | 15 | \$134 | 77% | 1.37 |
| FE-Penn Power | HE Motors | Mfg: Comp & Elec | Fans | New | end use | 22,507 | 2.0% | 0.05 | 15 | \$134 | 77% | 1.37 |
| FE-Penn Power | HE Motors | Mfg: Comp & Elec | Fans | ROB | end use | 22,507 | 2.0% | 0.05 | 15 | \$134 | 77% | 1.37 |
| FE-Penn Power | Improved Controls - Fans | Mfg: Comp & Elec | Fans | Existing | end use | 22,507 | 7.1% | 0.19 | 10 | \$87 | 88% | 2.98 |
| FE-Penn Power | Improved Controls - Fans | Mfg: Comp & Elec | Fans | New | end use | 22,507 | 7.1% | 0.19 | 10 | \$87 | 88% | 2.98 |
| FE-Penn Power | Properly Sized Fans | Mfg: Comp & Elec | Fans | Early | end use | 22,507 | 13% | 0.35 | 10 | \$461 | 41% | 1.65 |
| FE-Penn Power | Properly Sized Fans | Mfg: Comp & Elec | Fans | New | end use | 22,507 | 13% | 0.35 | 10 | \$461 | 41% | 1.65 |
| FE-Penn Power | Properly Sized Fans | Mfg: Comp & Elec | Fans | ROB | end use | 22,507 | 13% | 0.35 | 10 | \$461 | 41% | 1.65 |
| FE-Penn Power | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 87,585 | 9.2% | 2.08 | 15 | \$15,962 | 28% | 0.28 |
| FE-Penn Power | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Comp & Elec | HVAC | New | unit (ton) | 87,585 | 4.1% | 0.94 | 15 | \$3,867 | 28% | 0.50 |
| FE-Penn Power | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 87,585 | 4.1% | 0.94 | 15 | \$3,867 | 28% | 0.50 |
| FE-Penn Power | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 87,585 | 12% | 2.82 | 15 | \$18,817 | 28% | 0.32 |
| FE-Penn Power | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Comp & Elec | HVAC | New | unit (ton) | 87,585 | 7.7% | 1.75 | 15 | \$8,145 | 28% | 0.45 |
| FE-Penn Power | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 87,585 | 7.7% | 1.75 | 15 | \$8,145 | 28% | 0.45 |
| FE-Penn Power | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 87,585 | 15% | 3.46 | 15 | \$21,673 | 29% | 0.34 |
| FE-Penn Power | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Comp & Elec | HVAC | New | unit (ton) | 87,585 | 11% | 2.46 | 15 | \$12,423 | 29% | 0.42 |
| FE-Penn Power | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 87,585 | 11% | 2.46 | 15 | \$12,423 | 29% | 0.42 |
| FE-Penn Power | >760k min 10.2 EER Air Conditioner | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 87,585 | 2.1% | 0.48 | 15 | \$27,797 | 35% | 0.04 |
| FE-Penn Power | >760k min 10.2 EER Air Conditioner | Mfg: Comp & Elec | HVAC | New | unit (ton) | 87,585 | 2.8% | 0.64 | 15 | \$2,512 | 35% | 0.53 |
| FE-Penn Power | >760k min 10.2 EER Air Conditioner | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 87,585 | 2.8% | 0.64 | 15 | \$2,512 | 35% | 0.53 |
| FE-Penn Power | 135-240k min 12 EER Air Conditioner | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 87,585 | 10% | 2.38 | 15 | \$30,099 | 35% | 0.17 |
| FE-Penn Power | 135-240k min 12 EER Air Conditioner | Mfg: Comp & Elec | HVAC | New | unit (ton) | 87,585 | 5.8% | 1.31 | 15 | \$3,554 | 35% | 0.74 |
| FE-Penn Power | 135-240k min 12 EER Air Conditioner | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 87,585 | 5.8% | 1.31 | 15 | \$3,554 | 35% | 0.74 |
| FE-Penn Power | 240k-760k min 11 EER Air Conditioner | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 87,585 | 5.2% | 1.18 | 15 | \$27,814 | 35% | 0.09 |
| FE-Penn Power | 240k-760k min 11 EER Air Conditioner | Mfg: Comp & Elec | HVAC | New | unit (ton) | 87,585 | 5.3% | 1.21 | 15 | \$2,980 | 35% | 0.81 |
| FE-Penn Power | 240k-760k min 11 EER Air Conditioner | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 87,585 | 5.3% | 1.21 | 15 | \$2,980 | 35% | 0.81 |
| FE-Penn Power | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 87,585 | 9.7% | 2.20 | 15 | \$30,819 | 35% | 0.16 |
| FE-Penn Power | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Comp & Elec | HVAC | New | unit (ton) | 87,585 | 3.8% | 0.87 | 15 | \$4,397 | 35% | 0.42 |
| FE-Penn Power | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 87,585 | 3.8% | 0.87 | 15 | \$4,397 | 35% | 0.42 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Mfg: Comp & Elec | HVAC | Existing | building | 87,585 | 5.9% | 1.30 | 15 | \$265,369 | 71% | 0.01 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Mfg: Comp & Elec | HVAC | New | building | 87,585 | 3.7% | 0.82 | 15 | \$252,241 | 94% | 0.01 |
| FE-Penn Power | Chiller Tuneup/Diagnostics | Mfg: Comp & Elec | HVAC | Existing | building | 87,585 | 8.0% | 2.57 | 10 | \$223,644 | 59% | 0.02 |
| FE-Penn Power | Chiller Tuneup/Diagnostics | Mfg: Comp & Elec | HVAC | New | building | 87,585 | 8.0% | 2.57 | 10 | \$223,644 | 59% | 0.02 |
| FE-Penn Power | Cooling Tower Optimization | Mfg: Comp & Elec | HVAC | Existing | building | 87,585 | 20% | 6.27 | 10 | \$537 | 69% | 4.73 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|------------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Duct Insulation, Add R8 | Mfg: Comp & Elec | HVAC | Existing | building | 87,585 | 1.5% | 0.28 | 15 | \$696 | 18% | 0.94 |
| FE-Penn Power | Duct Insulation, Add R8 | Mfg: Comp & Elec | HVAC | New | building | 87,585 | 1.5% | 0.28 | 15 | \$696 | 9% | 0.94 |
| FE-Penn Power | Ductless Heat Pump | Mfg: Comp & Elec | HVAC | Early | heat pump | 87,585 | 0.8% | 0.16 | 15 | \$6,924 | 83% | 0.06 |
| FE-Penn Power | Ductless Heat Pump | Mfg: Comp & Elec | HVAC | New | heat pump | 87,585 | 0.4% | 0.09 | 15 | \$2,011 | 83% | 0.10 |
| FE-Penn Power | Ductless Heat Pump | Mfg: Comp & Elec | HVAC | ROB | heat pump | 87,585 | 0.4% | 0.09 | 15 | \$2,011 | 83% | 0.10 |
| FE-Penn Power | DX Coil Cleaning | Mfg: Comp & Elec | HVAC | Existing | building | 87,585 | 13% | 4.02 | 1 | \$839 | 73% | 0.50 |
| FE-Penn Power | DX Coil Cleaning | Mfg: Comp & Elec | HVAC | New | building | 87,585 | 13% | 4.02 | 1 | \$839 | 73% | 0.50 |
| FE-Penn Power | Efficient Unit Heating System | Mfg: Comp & Elec | HVAC | Early | heater | 87,585 | 6.9% | 0.05 | 15 | \$4,728 | 83% | 0.52 |
| FE-Penn Power | Efficient Unit Heating System | Mfg: Comp & Elec | HVAC | New | heater | 87,585 | 4.0% | 0.03 | 15 | \$3,225 | 83% | 0.44 |
| FE-Penn Power | Efficient Unit Heating System | Mfg: Comp & Elec | HVAC | ROB | heater | 87,585 | 4.0% | 0.03 | 15 | \$3,225 | 83% | 0.44 |
| FE-Penn Power | Ground Source Heat Pump (Closed Loop) | Mfg: Comp & Elec | HVAC | Early | heat pump | 87,585 | 1.3% | 0.25 | 15 | \$14,378 | 19% | 0.04 |
| FE-Penn Power | Ground Source Heat Pump (Closed Loop) | Mfg: Comp & Elec | HVAC | New | heat pump | 87,585 | 1.0% | 0.20 | 15 | \$5,677 | 19% | 0.09 |
| FE-Penn Power | Ground Source Heat Pump (Closed Loop) | Mfg: Comp & Elec | HVAC | ROB | heat pump | 87,585 | 1.0% | 0.20 | 15 | \$5,677 | 19% | 0.09 |
| FE-Penn Power | Ground Source Heat Pump (Open Loop) | Mfg: Comp & Elec | HVAC | Early | heat pump | 87,585 | 1.3% | 0.25 | 15 | \$9,208 | 19% | 0.07 |
| FE-Penn Power | Ground Source Heat Pump (Open Loop) | Mfg: Comp & Elec | HVAC | New | heat pump | 87,585 | 1.0% | 0.20 | 15 | \$195 | 19% | 1.92 |
| FE-Penn Power | Ground Source Heat Pump (Open Loop) | Mfg: Comp & Elec | HVAC | ROB | heat pump | 87,585 | 1.0% | 0.20 | 15 | \$195 | 19% | 1.92 |
| FE-Penn Power | HE Air Cooled Chiller, 100 Tons | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 87,585 | 1.5% | 0.29 | 15 | \$101,885 | 89% | 0.01 |
| FE-Penn Power | HE Air Cooled Chiller, 100 Tons | Mfg: Comp & Elec | HVAC | New | unit (ton) | 87,585 | 0.4% | 0.08 | 15 | \$14,843 | 89% | 0.01 |
| FE-Penn Power | HE Air Cooled Chiller, 100 Tons | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 87,585 | 0.4% | 0.08 | 15 | \$14,843 | 89% | 0.01 |
| FE-Penn Power | HE Air Cooled Chiller, 150 Tons | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 87,585 | 1.4% | 0.28 | 15 | \$88,006 | 89% | 0.01 |
| FE-Penn Power | HE Air Cooled Chiller, 150 Tons | Mfg: Comp & Elec | HVAC | New | unit (ton) | 87,585 | 0.3% | 0.06 | 15 | \$7,289 | 89% | 0.02 |
| FE-Penn Power | HE Air Cooled Chiller, 150 Tons | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 87,585 | 0.3% | 0.06 | 15 | \$7,289 | 89% | 0.02 |
| FE-Penn Power | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Comp & Elec | HVAC | Early | heat pump | 87,585 | 1.4% | 0.27 | 12 | \$3,753 | 81% | 0.15 |
| FE-Penn Power | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Comp & Elec | HVAC | Early | heat pump | 87,585 | 1.1% | 0.22 | 12 | \$2,742 | 81% | 0.17 |
| FE-Penn Power | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Comp & Elec | HVAC | New | heat pump | 87,585 | 1.0% | 0.20 | 12 | \$1,676 | 81% | 0.24 |
| FE-Penn Power | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Comp & Elec | HVAC | New | heat pump | 87,585 | 0.8% | 0.15 | 12 | \$586 | 81% | 0.50 |
| FE-Penn Power | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Comp & Elec | HVAC | ROB | heat pump | 87,585 | 1.0% | 0.20 | 12 | \$1,676 | 81% | 0.24 |
| FE-Penn Power | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Comp & Elec | HVAC | ROB | heat pump | 87,585 | 0.8% | 0.15 | 12 | \$586 | 81% | 0.50 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 87,585 | 1.6% | 0.31 | 15 | \$8,084 | 89% | 0.09 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Comp & Elec | HVAC | New | unit (ton) | 87,585 | 0.9% | 0.18 | 15 | \$2,689 | 89% | 0.16 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 87,585 | 0.9% | 0.18 | 15 | \$2,689 | 89% | 0.16 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 87,585 | 1.4% | 0.28 | 15 | \$7,895 | 89% | 0.09 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Comp & Elec | HVAC | New | unit (ton) | 87,585 | 1.0% | 0.19 | 15 | \$1,542 | 89% | 0.30 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 87,585 | 1.4% | 0.28 | 15 | \$1,416 | 89% | 0.46 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 87,585 | 1.4% | 0.27 | 15 | \$9,344 | 89% | 0.07 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Comp & Elec | HVAC | New | unit (ton) | 87,585 | 0.9% | 0.18 | 15 | \$3,934 | 89% | 0.11 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 87,585 | 1.4% | 0.27 | 15 | \$3,561 | 89% | 0.19 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 87,585 | 1.4% | 0.27 | 15 | \$9,001 | 89% | 0.07 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Comp & Elec | HVAC | New | unit (ton) | 87,585 | 0.9% | 0.18 | 15 | \$3,420 | 89% | 0.12 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 87,585 | 1.4% | 0.27 | 15 | \$3,095 | 89% | 0.21 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 87,585 | 1.8% | 0.35 | 15 | \$9,699 | 89% | 0.09 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Comp & Elec | HVAC | New | unit (ton) | 87,585 | 0.5% | 0.11 | 15 | \$6,006 | 89% | 0.04 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 87,585 | 1.8% | 0.35 | 15 | \$4,663 | 89% | 0.18 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 87,585 | 2.1% | 0.42 | 15 | \$8,921 | 89% | 0.12 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Comp & Elec | HVAC | New | unit (ton) | 87,585 | 0.8% | 0.15 | 15 | \$3,580 | 89% | 0.10 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 87,585 | 0.8% | 0.15 | 15 | \$3,580 | 89% | 0.10 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 87,585 | 2.4% | 0.47 | 15 | \$7,561 | 89% | 0.15 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Comp & Elec | HVAC | New | unit (ton) | 87,585 | 0.9% | 0.18 | 15 | \$1,903 | 89% | 0.22 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 87,585 | 2.4% | 0.47 | 15 | \$1,356 | 89% | 0.78 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 87,585 | 1.8% | 0.36 | 15 | \$7,485 | 89% | 0.12 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|--|------------------|----------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Comp & Elec | HVAC | New | unit (ton) | 87,585 | 0.7% | 0.13 | 15 | \$2,096 | 89% | 0.16 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 87,585 | 1.8% | 0.36 | 15 | \$1,661 | 89% | 0.50 |
| FE-Penn Power | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Comp & Elec | HVAC | Existing | building | 87,585 | 2.9% | 0.52 | 5 | \$929 | 55% | 0.56 |
| FE-Penn Power | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Comp & Elec | HVAC | New | building | 87,585 | 0.6% | 0.20 | 5 | \$558 | 51% | 0.27 |
| FE-Penn Power | Improved Controls - HVAC | Mfg: Comp & Elec | HVAC | Existing | end use | 87,585 | 21% | 2.63 | 10 | \$921 | 76% | 3.21 |
| FE-Penn Power | Improved Controls - HVAC | Mfg: Comp & Elec | HVAC | New | end use | 87,585 | 21% | 2.63 | 10 | \$921 | 76% | 3.21 |
| FE-Penn Power | Outside Air Economizer | Mfg: Comp & Elec | HVAC | Existing | building | 87,585 | 1.1% | 0.25 | 10 | \$321,805 | 82% | 0.00 |
| FE-Penn Power | Outside Air Economizer | Mfg: Comp & Elec | HVAC | New | building | 87,585 | 1.1% | 0.25 | 10 | \$321,805 | 82% | 0.00 |
| FE-Penn Power | Recommissioning | Mfg: Comp & Elec | HVAC | Existing | end use | 87,585 | 5.0% | 0.63 | 10 | \$120 | 88% | 3.96 |
| FE-Penn Power | Recommissioning | Mfg: Comp & Elec | HVAC | New | end use | 87,585 | 5.0% | 0.63 | 10 | \$120 | 88% | 3.96 |
| FE-Penn Power | Room AC (with louvered sides) | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 87,585 | 7.7% | 1.52 | 9 | \$6,868 | 78% | 0.36 |
| FE-Penn Power | Room AC (with louvered sides) | Mfg: Comp & Elec | HVAC | New | unit (ton) | 87,585 | 2.6% | 0.51 | 9 | \$376 | 78% | 1.66 |
| FE-Penn Power | Room AC (with louvered sides) | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 87,585 | 2.6% | 0.51 | 9 | \$376 | 78% | 1.66 |
| FE-Penn Power | Variable Refrigerant Flow Heat Pump | Mfg: Comp & Elec | HVAC | New | measure | 87,585 | 0.1% | 0.02 | 13 | \$645 | 43% | 0.08 |
| FE-Penn Power | Variable Refrigerant Flow Heat Pump | Mfg: Comp & Elec | HVAC | ROB | measure | 87,585 | 0.1% | 0.02 | 13 | \$645 | 43% | 0.08 |
| FE-Penn Power | VFD on Cooling Tower Fan | Mfg: Comp & Elec | HVAC | Early | motor | 87,585 | 21% | 5.52 | 15 | \$4,044 | 15% | 2.07 |
| FE-Penn Power | VFD on Cooling Tower Fan | Mfg: Comp & Elec | HVAC | New | motor | 87,585 | 22% | 5.52 | 15 | \$4,121 | 15% | 2.06 |
| FE-Penn Power | VFD on Cooling Tower Fan | Mfg: Comp & Elec | HVAC | ROB | motor | 87,585 | 22% | 5.52 | 15 | \$4,121 | 15% | 2.06 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Mfg: Comp & Elec | HVAC | Existing | building | 87,585 | 19% | 4.19 | 15 | \$62,305 | 26% | 0.15 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Mfg: Comp & Elec | HVAC | New | building | 87,585 | 0.6% | 0.13 | 15 | \$47,791 | 94% | 0.01 |
| FE-Penn Power | Water Source Heat Pump (4 ton) | Mfg: Comp & Elec | HVAC | Early | heat pump | 87,585 | 1.5% | 0.30 | 15 | \$14,889 | 28% | 0.05 |
| FE-Penn Power | Water Source Heat Pump (4 ton) | Mfg: Comp & Elec | HVAC | New | heat pump | 87,585 | 1.1% | 0.22 | 15 | \$7,257 | 28% | 0.07 |
| FE-Penn Power | Water Source Heat Pump (4 ton) | Mfg: Comp & Elec | HVAC | ROB | heat pump | 87,585 | 1.1% | 0.22 | 15 | \$7,257 | 28% | 0.07 |
| FE-Penn Power | Efficient Metal Halide (High Bay) | Mfg: Comp & Elec | Lighting | Early | end use | 35,901 | 42% | 0.00 | 9 | \$5,610 | 53% | 0.67 |
| FE-Penn Power | Efficient Metal Halide (High Bay) | Mfg: Comp & Elec | Lighting | New | end use | 35,901 | 41% | 0.00 | 13 | \$149,844 | 61% | 0.04 |
| FE-Penn Power | Efficient Metal Halide (High Bay) | Mfg: Comp & Elec | Lighting | ROB | end use | 35,901 | 41% | 0.00 | 13 | \$114,519 | 61% | 0.05 |
| FE-Penn Power | Induction (High Bay) | Mfg: Comp & Elec | Lighting | Early | end use | 35,901 | 94% | 0.00 | 13 | \$16,692 | 95% | 0.68 |
| FE-Penn Power | Induction (High Bay) | Mfg: Comp & Elec | Lighting | New | end use | 35,901 | 94% | 0.00 | 13 | \$15,628 | 95% | 0.72 |
| FE-Penn Power | Induction (High Bay) | Mfg: Comp & Elec | Lighting | ROB | end use | 35,901 | 94% | 0.00 | 13 | \$11,878 | 95% | 0.92 |
| FE-Penn Power | LED (High Bay) | Mfg: Comp & Elec | Lighting | Early | end use | 35,901 | 69% | 0.00 | 14 | \$19,649 | 95% | 0.47 |
| FE-Penn Power | LED (High Bay) | Mfg: Comp & Elec | Lighting | New | end use | 35,901 | 55% | 0.00 | 14 | \$21,810 | 95% | 0.35 |
| FE-Penn Power | LED (High Bay) | Mfg: Comp & Elec | Lighting | ROB | end use | 35,901 | 59% | 0.00 | 14 | \$14,370 | 95% | 0.54 |
| FE-Penn Power | Lighting Controls | Mfg: Comp & Elec | Lighting | Existing | end use | 35,901 | 20% | 0.00 | 6 | \$134,589 | 16% | 0.01 |
| FE-Penn Power | Lighting Controls | Mfg: Comp & Elec | Lighting | New | end use | 35,901 | 12% | 0.00 | 10 | \$179,047 | 11% | 0.01 |
| FE-Penn Power | Linear Fluorescent (High Bay) | Mfg: Comp & Elec | Lighting | Early | end use | 35,901 | 17% | 0.00 | 14 | \$4,108 | 98% | 0.54 |
| FE-Penn Power | Linear Fluorescent (High Bay) | Mfg: Comp & Elec | Lighting | New | end use | 35,901 | 13% | 0.00 | 14 | \$1,303 | 91% | 1.15 |
| FE-Penn Power | Linear Fluorescent (High Bay) | Mfg: Comp & Elec | Lighting | ROB | end use | 35,901 | 13% | 0.00 | 14 | \$834 | 91% | 1.66 |
| FE-Penn Power | Metal Halide (High Bay) | Mfg: Comp & Elec | Lighting | Early | end use | 35,901 | 62% | 0.00 | 13 | \$24,680 | 38% | 0.33 |
| FE-Penn Power | Metal Halide (High Bay) | Mfg: Comp & Elec | Lighting | New | end use | 35,901 | 73% | 0.00 | 13 | \$5,901 | 38% | 1.30 |
| FE-Penn Power | Metal Halide (High Bay) | Mfg: Comp & Elec | Lighting | ROB | end use | 35,901 | 73% | 0.00 | 13 | \$4,484 | 38% | 1.59 |
| FE-Penn Power | Screw Base CFL | Mfg: Comp & Elec | Lighting | Early | end use | 35,901 | 80% | 0.00 | 7 | \$9,754 | 17% | 0.60 |
| FE-Penn Power | Screw Base CFL | Mfg: Comp & Elec | Lighting | New | end use | 35,901 | 73% | 0.00 | 9 | \$7,971 | 18% | 0.79 |
| FE-Penn Power | Screw Base CFL | Mfg: Comp & Elec | Lighting | ROB | end use | 35,901 | 73% | 0.00 | 9 | \$6,672 | 17% | 0.91 |
| FE-Penn Power | Screw Base LED | Mfg: Comp & Elec | Lighting | Early | end use | 35,901 | 76% | 0.00 | 9 | \$5,986 | 21% | 1.06 |
| FE-Penn Power | Screw Base LED | Mfg: Comp & Elec | Lighting | New | end use | 35,901 | 77% | 0.00 | 9 | \$3,334 | 20% | 1.61 |
| FE-Penn Power | Screw Base LED | Mfg: Comp & Elec | Lighting | ROB | end use | 35,901 | 77% | 0.00 | 9 | \$2,647 | 21% | 1.85 |
| FE-Penn Power | T8 High Performance Linear Florescent | Mfg: Comp & Elec | Lighting | Early | end use | 35,901 | 36% | 0.00 | 14 | \$3,435 | 71% | 1.22 |
| FE-Penn Power | T8 High Performance Linear Florescent | Mfg: Comp & Elec | Lighting | New | end use | 35,901 | 26% | 0.00 | 14 | \$1,229 | 76% | 2.05 |
| FE-Penn Power | T8 High Performance Linear Florescent | Mfg: Comp & Elec | Lighting | ROB | end use | 35,901 | 26% | 0.00 | 14 | \$934 | 76% | 2.42 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Comp & Elec | Motors | Early | end use | 7,106 | 0.9% | 0.01 | 15 | \$109 | 81% | 0.28 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|--|------------------|---------|----------|---------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Comp & Elec | Motors | New | end use | 7,106 | 0.9% | 0.01 | 15 | \$109 | 81% | 0.28 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Comp & Elec | Motors | ROB | end use | 7,106 | 0.9% | 0.01 | 15 | \$109 | 81% | 0.28 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Comp & Elec | Motors | Early | end use | 7,106 | 0.8% | 0.01 | 15 | \$66 | 73% | 0.38 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Comp & Elec | Motors | New | end use | 7,106 | 0.8% | 0.01 | 15 | \$66 | 73% | 0.38 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Comp & Elec | Motors | ROB | end use | 7,106 | 0.7% | 0.01 | 15 | \$66 | 73% | 0.37 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Comp & Elec | Motors | Early | end use | 7,106 | 0.4% | 0.00 | 15 | \$25 | 81% | 0.56 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Comp & Elec | Motors | New | end use | 7,106 | 0.5% | 0.00 | 15 | \$25 | 81% | 0.58 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Comp & Elec | Motors | ROB | end use | 7,106 | 0.5% | 0.00 | 15 | \$25 | 81% | 0.58 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Comp & Elec | Motors | Early | end use | 7,106 | 0.4% | 0.00 | 15 | \$8.3 | 73% | 1.34 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Comp & Elec | Motors | New | end use | 7,106 | 0.4% | 0.00 | 15 | \$8.3 | 73% | 1.31 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Comp & Elec | Motors | ROB | end use | 7,106 | 0.4% | 0.00 | 15 | \$8.3 | 73% | 1.34 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Comp & Elec | Motors | Early | end use | 7,106 | 0.9% | 0.01 | 15 | \$12 | 47% | 1.86 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Comp & Elec | Motors | New | end use | 7,106 | 0.9% | 0.01 | 15 | \$12 | 47% | 1.86 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Comp & Elec | Motors | ROB | end use | 7,106 | 0.9% | 0.01 | 15 | \$12 | 47% | 1.87 |
| FE-Penn Power | Facility Energy Management | Mfg: Comp & Elec | Motors | Existing | end use | 7,106 | 1.9% | 0.02 | 2 | \$2.7 | 77% | 1.09 |
| FE-Penn Power | Facility Energy Management | Mfg: Comp & Elec | Motors | New | end use | 7,106 | 1.8% | 0.02 | 2 | \$2.7 | 77% | 1.09 |
| FE-Penn Power | HE Motors | Mfg: Comp & Elec | Motors | Early | end use | 7,106 | 2.0% | 0.02 | 15 | \$42 | 38% | 1.34 |
| FE-Penn Power | HE Motors | Mfg: Comp & Elec | Motors | New | end use | 7,106 | 2.0% | 0.02 | 15 | \$42 | 38% | 1.34 |
| FE-Penn Power | HE Motors | Mfg: Comp & Elec | Motors | ROB | end use | 7,106 | 2.0% | 0.02 | 15 | \$42 | 38% | 1.34 |
| FE-Penn Power | High-Efficiency Ventilation System | Mfg: Comp & Elec | Motors | Early | end use | 7,106 | 5.7% | 0.06 | 10 | \$444 | 73% | 0.31 |
| FE-Penn Power | High-Efficiency Ventilation System | Mfg: Comp & Elec | Motors | New | end use | 7,106 | 5.7% | 0.06 | 10 | \$444 | 73% | 0.31 |
| FE-Penn Power | High-Efficiency Ventilation System | Mfg: Comp & Elec | Motors | ROB | end use | 7,106 | 5.7% | 0.06 | 10 | \$444 | 73% | 0.31 |
| FE-Penn Power | Improved Controls - Motors | Mfg: Comp & Elec | Motors | Existing | end use | 7,106 | 4.0% | 0.04 | 10 | \$31 | 73% | 2.03 |
| FE-Penn Power | Improved Controls - Motors | Mfg: Comp & Elec | Motors | New | end use | 7,106 | 4.0% | 0.04 | 10 | \$31 | 73% | 2.03 |
| FE-Penn Power | Motor Management Plan | Mfg: Comp & Elec | Motors | Existing | end use | 7,106 | 2.9% | 0.03 | 10 | \$14 | 73% | 2.60 |
| FE-Penn Power | Motor Management Plan | Mfg: Comp & Elec | Motors | New | end use | 7,106 | 2.9% | 0.03 | 10 | \$14 | 73% | 2.60 |
| FE-Penn Power | Motors Other | Mfg: Comp & Elec | Motors | Existing | end use | 7,106 | 1.1% | 0.01 | 15 | \$1.4 | 83% | 5.48 |
| FE-Penn Power | Motors Other | Mfg: Comp & Elec | Motors | New | end use | 7,106 | 1.1% | 0.01 | 15 | \$1.4 | 83% | 5.48 |
| FE-Penn Power | Motors: Rewind 101-200 HP | Mfg: Comp & Elec | Motors | Existing | end use | 7,106 | 0.6% | 0.01 | 10 | \$9.0 | 27% | 1.23 |
| FE-Penn Power | Motors: Rewind 101-200 HP | Mfg: Comp & Elec | Motors | New | end use | 7,106 | 0.6% | 0.01 | 10 | \$9.0 | 27% | 1.23 |
| FE-Penn Power | Motors: Rewind 201-500 HP | Mfg: Comp & Elec | Motors | Existing | end use | 7,106 | 0.6% | 0.01 | 8 | \$5.6 | 27% | 1.47 |
| FE-Penn Power | Motors: Rewind 201-500 HP | Mfg: Comp & Elec | Motors | New | end use | 7,106 | 0.6% | 0.01 | 8 | \$5.6 | 27% | 1.46 |
| FE-Penn Power | Motors: Rewind 20-50 HP | Mfg: Comp & Elec | Motors | Existing | end use | 7,106 | 1.0% | 0.01 | 11 | \$26 | 42% | 0.91 |
| FE-Penn Power | Motors: Rewind 20-50 HP | Mfg: Comp & Elec | Motors | New | end use | 7,106 | 1.0% | 0.01 | 11 | \$26 | 42% | 0.92 |
| FE-Penn Power | Motors: Rewind 500+ HP | Mfg: Comp & Elec | Motors | Existing | end use | 7,106 | 0.6% | 0.01 | 8 | \$4.0 | 11% | 1.84 |
| FE-Penn Power | Motors: Rewind 500+ HP | Mfg: Comp & Elec | Motors | New | end use | 7,106 | 0.6% | 0.01 | 8 | \$4.0 | 11% | 1.83 |
| FE-Penn Power | Motors: Rewind 51-100 HP | Mfg: Comp & Elec | Motors | Existing | end use | 7,106 | 0.6% | 0.01 | 9 | \$13 | 42% | 0.93 |
| FE-Penn Power | Motors: Rewind 51-100 HP | Mfg: Comp & Elec | Motors | New | end use | 7,106 | 0.6% | 0.01 | 9 | \$13 | 42% | 0.92 |
| FE-Penn Power | Switch from Belt drive to Direct Drive | Mfg: Comp & Elec | Motors | Early | end use | 7,106 | 7.5% | 0.08 | 12 | \$114 | 30% | 1.45 |
| FE-Penn Power | Switch from Belt drive to Direct Drive | Mfg: Comp & Elec | Motors | New | end use | 7,106 | 7.5% | 0.08 | 12 | \$114 | 30% | 1.45 |
| FE-Penn Power | Switch from Belt drive to Direct Drive | Mfg: Comp & Elec | Motors | ROB | end use | 7,106 | 7.5% | 0.08 | 12 | \$114 | 30% | 1.45 |
| FE-Penn Power | Bldg Improvements | Mfg: Comp & Elec | Other | Existing | end use | 20,741 | 16% | 0.40 | 15 | \$452 | 72% | 2.31 |
| FE-Penn Power | Bldg Improvements | Mfg: Comp & Elec | Other | New | end use | 20,741 | 16% | 0.40 | 15 | \$452 | 72% | 2.31 |
| FE-Penn Power | Energy Project Management | Mfg: Comp & Elec | Other | Existing | end use | 20,741 | 29% | 0.72 | 11 | \$740 | 63% | 1.95 |
| FE-Penn Power | Energy Project Management | Mfg: Comp & Elec | Other | New | end use | 20,741 | 29% | 0.72 | 11 | \$740 | 63% | 1.95 |
| FE-Penn Power | Facility Energy Management | Mfg: Comp & Elec | Other | Existing | end use | 20,741 | 1.9% | 0.05 | 2 | \$8.0 | 76% | 1.07 |
| FE-Penn Power | Facility Energy Management | Mfg: Comp & Elec | Other | New | end use | 20,741 | 1.9% | 0.05 | 2 | \$8.0 | 76% | 1.06 |
| FE-Penn Power | Integrated Plant Energy Management | Mfg: Comp & Elec | Other | Existing | end use | 20,741 | 50% | 1.23 | 11 | \$2,044 | 48% | 1.41 |
| FE-Penn Power | Integrated Plant Energy Management | Mfg: Comp & Elec | Other | New | end use | 20,741 | 50% | 1.23 | 11 | \$2,044 | 48% | 1.41 |
| FE-Penn Power | Plant Energy Management | Mfg: Comp & Elec | Other | Existing | end use | 20,741 | 12% | 0.30 | 10 | \$52 | 55% | 3.90 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|-------------------------------------|------------------|------------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Plant Energy Management | Mfg: Comp & Elec | Other | New | end use | 20,741 | 12% | 0.30 | 10 | \$52 | 55% | 3.90 |
| FE-Penn Power | Transformers | Mfg: Comp & Elec | Other | Early | end use | 20,741 | 1.6% | 0.04 | 15 | \$66 | 34% | 1.71 |
| FE-Penn Power | Transformers | Mfg: Comp & Elec | Other | New | end use | 20,741 | 1.6% | 0.04 | 15 | \$66 | 34% | 1.71 |
| FE-Penn Power | Transformers | Mfg: Comp & Elec | Other | ROB | end use | 20,741 | 1.6% | 0.04 | 15 | \$66 | 34% | 1.72 |
| FE-Penn Power | Air Compressor Demand Reduction | Mfg: Comp & Elec | Process Air Compressor | Existing | end use | 1,395 | 26% | 0.05 | 10 | \$21 | 52% | 2.80 |
| FE-Penn Power | Air Compressor Demand Reduction | Mfg: Comp & Elec | Process Air Compressor | New | end use | 1,395 | 26% | 0.05 | 10 | \$21 | 52% | 2.80 |
| FE-Penn Power | Facility Energy Management | Mfg: Comp & Elec | Process Air Compressor | Existing | end use | 1,395 | 1.9% | 0.00 | 2 | \$0.5 | 66% | 1.08 |
| FE-Penn Power | Facility Energy Management | Mfg: Comp & Elec | Process Air Compressor | New | end use | 1,395 | 1.9% | 0.00 | 2 | \$0.5 | 66% | 1.08 |
| FE-Penn Power | HE Compressor motors | Mfg: Comp & Elec | Process Air Compressor | Early | end use | 1,395 | 1.1% | 0.00 | 15 | \$5.3 | 73% | 1.17 |
| FE-Penn Power | HE Compressor motors | Mfg: Comp & Elec | Process Air Compressor | New | end use | 1,395 | 1.1% | 0.00 | 15 | \$5.3 | 73% | 1.16 |
| FE-Penn Power | HE Compressor motors | Mfg: Comp & Elec | Process Air Compressor | ROB | end use | 1,395 | 1.1% | 0.00 | 15 | \$5.3 | 73% | 1.16 |
| FE-Penn Power | Improved Controls - Air Compressor | Mfg: Comp & Elec | Process Air Compressor | Existing | end use | 1,395 | 41% | 0.07 | 10 | \$25 | 25% | 3.15 |
| FE-Penn Power | Improved Controls - Air Compressor | Mfg: Comp & Elec | Process Air Compressor | New | end use | 1,395 | 41% | 0.07 | 10 | \$25 | 25% | 3.15 |
| FE-Penn Power | Low Pressure-drop Filters | Mfg: Comp & Elec | Process Air Compressor | Existing | end use | 1,395 | 1.9% | 0.00 | 10 | \$16 | 61% | 0.53 |
| FE-Penn Power | Low Pressure-drop Filters | Mfg: Comp & Elec | Process Air Compressor | New | end use | 1,395 | 1.8% | 0.00 | 10 | \$16 | 61% | 0.53 |
| FE-Penn Power | Outside Air Intake | Mfg: Comp & Elec | Process Air Compressor | Existing | end use | 1,395 | 1.4% | 0.00 | 10 | \$9.2 | 48% | 0.68 |
| FE-Penn Power | Outside Air Intake | Mfg: Comp & Elec | Process Air Compressor | New | end use | 1,395 | 1.4% | 0.00 | 10 | \$9.2 | 48% | 0.68 |
| FE-Penn Power | Receiver Capacity Addition | Mfg: Comp & Elec | Process Air Compressor | Existing | end use | 1,395 | 5.9% | 0.01 | 10 | \$26 | 36% | 0.94 |
| FE-Penn Power | Receiver Capacity Addition | Mfg: Comp & Elec | Process Air Compressor | New | end use | 1,395 | 5.9% | 0.01 | 10 | \$26 | 36% | 0.94 |
| FE-Penn Power | Refrigerated Cycling Dryers | Mfg: Comp & Elec | Process Air Compressor | Early | end use | 1,395 | 1.7% | 0.00 | 10 | \$3.2 | 21% | 1.74 |
| FE-Penn Power | Refrigerated Cycling Dryers | Mfg: Comp & Elec | Process Air Compressor | New | end use | 1,395 | 1.7% | 0.00 | 10 | \$3.2 | 21% | 1.73 |
| FE-Penn Power | Refrigerated Cycling Dryers | Mfg: Comp & Elec | Process Air Compressor | ROB | end use | 1,395 | 1.7% | 0.00 | 10 | \$3.2 | 21% | 1.74 |
| FE-Penn Power | VFD Controlled Compressor | Mfg: Comp & Elec | Process Air Compressor | Early | end use | 1,395 | 24% | 0.04 | 10 | \$137 | 28% | 0.74 |
| FE-Penn Power | VFD Controlled Compressor | Mfg: Comp & Elec | Process Air Compressor | New | end use | 1,395 | 24% | 0.04 | 10 | \$137 | 28% | 0.74 |
| FE-Penn Power | VFD Controlled Compressor | Mfg: Comp & Elec | Process Air Compressor | ROB | end use | 1,395 | 24% | 0.04 | 10 | \$137 | 28% | 0.74 |
| FE-Penn Power | Zero Loss Condensate Drain | Mfg: Comp & Elec | Process Air Compressor | Early | end use | 1,395 | 1.9% | 0.00 | 10 | \$8.0 | 36% | 0.95 |
| FE-Penn Power | Zero Loss Condensate Drain | Mfg: Comp & Elec | Process Air Compressor | New | end use | 1,395 | 1.8% | 0.00 | 10 | \$8.0 | 36% | 0.95 |
| FE-Penn Power | Zero Loss Condensate Drain | Mfg: Comp & Elec | Process Air Compressor | ROB | end use | 1,395 | 1.9% | 0.00 | 10 | \$8.0 | 36% | 0.95 |
| FE-Penn Power | Clean Room: Change Filter Strategy | Mfg: Comp & Elec | Process Cooling | Existing | end use | 14,485 | 40% | 1.21 | 1 | \$38 | 13% | 0.78 |
| FE-Penn Power | Clean Room: Change Filter Strategy | Mfg: Comp & Elec | Process Cooling | New | end use | 14,485 | 40% | 1.21 | 1 | \$38 | 13% | 0.78 |
| FE-Penn Power | Clean Room: Chiller Optimize | Mfg: Comp & Elec | Process Cooling | Existing | end use | 14,485 | 15% | 0.45 | 10 | \$175 | 21% | 2.53 |
| FE-Penn Power | Clean Room: Chiller Optimize | Mfg: Comp & Elec | Process Cooling | New | end use | 14,485 | 15% | 0.45 | 10 | \$175 | 21% | 2.53 |
| FE-Penn Power | Clean Room: Clean Room HVAC | Mfg: Comp & Elec | Process Cooling | Existing | end use | 14,485 | 9.0% | 0.27 | 15 | \$211 | 31% | 2.19 |
| FE-Penn Power | Clean Room: Clean Room HVAC | Mfg: Comp & Elec | Process Cooling | New | end use | 14,485 | 9.0% | 0.27 | 15 | \$211 | 31% | 2.19 |
| FE-Penn Power | Cooling Tower Optimization | Mfg: Comp & Elec | Process Cooling | Existing | building | 14,485 | 20% | 1.04 | 10 | \$89 | 15% | 4.44 |
| FE-Penn Power | Elec Chip Fab: Solidstate Chiller | Mfg: Comp & Elec | Process Cooling | Early | end use | 14,485 | 90% | 2.72 | 10 | \$6,629 | 42% | 0.66 |
| FE-Penn Power | Elec Chip Fab: Solidstate Chiller | Mfg: Comp & Elec | Process Cooling | New | end use | 14,485 | 90% | 2.72 | 10 | \$6,629 | 42% | 0.66 |
| FE-Penn Power | Elec Chip Fab: Solidstate Chiller | Mfg: Comp & Elec | Process Cooling | ROB | end use | 14,485 | 90% | 2.72 | 10 | \$6,629 | 42% | 0.66 |
| FE-Penn Power | Equipment: Chillers | Mfg: Comp & Elec | Process Cooling | Early | end use | 14,485 | 18% | 0.54 | 15 | \$680 | 39% | 1.53 |
| FE-Penn Power | Equipment: Chillers | Mfg: Comp & Elec | Process Cooling | New | end use | 14,485 | 18% | 0.54 | 15 | \$680 | 39% | 1.53 |
| FE-Penn Power | Equipment: Chillers | Mfg: Comp & Elec | Process Cooling | ROB | end use | 14,485 | 18% | 0.54 | 15 | \$680 | 39% | 1.53 |
| FE-Penn Power | Facility Energy Management | Mfg: Comp & Elec | Process Cooling | Existing | end use | 14,485 | 1.9% | 0.06 | 2 | \$5.6 | 50% | 1.15 |
| FE-Penn Power | Facility Energy Management | Mfg: Comp & Elec | Process Cooling | New | end use | 14,485 | 1.9% | 0.06 | 2 | \$5.6 | 50% | 1.15 |
| FE-Penn Power | Improved Controls - Process Cooling | Mfg: Comp & Elec | Process Cooling | Existing | end use | 14,485 | 6.0% | 0.18 | 10 | \$765 | 47% | 0.40 |
| FE-Penn Power | Improved Controls - Process Cooling | Mfg: Comp & Elec | Process Cooling | New | end use | 14,485 | 6.0% | 0.18 | 10 | \$765 | 47% | 0.41 |
| FE-Penn Power | VFD on Cooling Tower Fan | Mfg: Comp & Elec | Process Cooling | Early | motor | 14,485 | 21% | 0.91 | 15 | \$669 | 20% | 1.93 |
| FE-Penn Power | VFD on Cooling Tower Fan | Mfg: Comp & Elec | Process Cooling | New | motor | 14,485 | 22% | 0.91 | 15 | \$682 | 20% | 1.92 |
| FE-Penn Power | VFD on Cooling Tower Fan | Mfg: Comp & Elec | Process Cooling | ROB | motor | 14,485 | 22% | 0.91 | 15 | \$682 | 20% | 1.92 |
| FE-Penn Power | Improved Controls - Process Heating | Mfg: Comp & Elec | Process Heating | Existing | end use | 36,785 | 17% | 0.86 | 10 | \$423 | 77% | 2.58 |
| FE-Penn Power | Improved Controls - Process Heating | Mfg: Comp & Elec | Process Heating | New | end use | 36,785 | 17% | 0.86 | 10 | \$423 | 77% | 2.58 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---------------------------------------|------------------|-----------------------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Process Heat O&M | Mfg: Comp & Elec | Process Heating | Existing | end use | 36,785 | 16% | 0.82 | 2 | \$255 | 77% | 0.85 |
| FE-Penn Power | Process Heat O&M | Mfg: Comp & Elec | Process Heating | New | end use | 36,785 | 16% | 0.82 | 2 | \$255 | 77% | 0.85 |
| FE-Penn Power | Elec Chip Fab: Eliminate Exhaust | Mfg: Comp & Elec | Process Other | Existing | end use | 13,599 | 5.0% | 0.10 | 10 | \$127 | 68% | 1.38 |
| FE-Penn Power | Elec Chip Fab: Eliminate Exhaust | Mfg: Comp & Elec | Process Other | New | end use | 13,599 | 5.0% | 0.10 | 10 | \$127 | 68% | 1.39 |
| FE-Penn Power | Elec Chip Fab: Exhaust Injector | Mfg: Comp & Elec | Process Other | Existing | end use | 13,599 | 100% | 1.91 | 10 | \$6,124 | 68% | 0.68 |
| FE-Penn Power | Elec Chip Fab: Exhaust Injector | Mfg: Comp & Elec | Process Other | New | end use | 13,599 | 100% | 1.91 | 10 | \$6,124 | 68% | 0.68 |
| FE-Penn Power | Elec Chip Fab: Reduce Gas Pressure | Mfg: Comp & Elec | Process Other | Existing | end use | 13,599 | 10.0% | 0.19 | 10 | \$0.0 | 68% | 5.06 |
| FE-Penn Power | Elec Chip Fab: Reduce Gas Pressure | Mfg: Comp & Elec | Process Other | New | end use | 13,599 | 10% | 0.19 | 10 | \$0.0 | 68% | 5.06 |
| FE-Penn Power | Facility Energy Management | Mfg: Comp & Elec | Process Other | Existing | end use | 13,599 | 1.9% | 0.04 | 2 | \$5.2 | 77% | 1.06 |
| FE-Penn Power | Facility Energy Management | Mfg: Comp & Elec | Process Other | New | end use | 13,599 | 1.9% | 0.04 | 2 | \$5.2 | 77% | 1.06 |
| FE-Penn Power | Adjustable speed drive on compressors | Mfg: Comp & Elec | Process Refrigeration | Early | end use | 7,441 | 12% | 0.13 | 10 | \$138 | 30% | 1.61 |
| FE-Penn Power | Adjustable speed drive on compressors | Mfg: Comp & Elec | Process Refrigeration | New | end use | 7,441 | 12% | 0.13 | 10 | \$138 | 30% | 1.61 |
| FE-Penn Power | Adjustable speed drive on compressors | Mfg: Comp & Elec | Process Refrigeration | ROB | end use | 7,441 | 12% | 0.13 | 10 | \$138 | 30% | 1.61 |
| FE-Penn Power | Cooling Tower Optimization | Mfg: Comp & Elec | Process Refrigeration | Existing | building | 7,441 | 20% | 0.53 | 10 | \$46 | 15% | 4.44 |
| FE-Penn Power | Optimization of operating parameters | Mfg: Comp & Elec | Process Refrigeration | Existing | end use | 7,441 | 13% | 0.14 | 3 | \$60 | 27% | 1.07 |
| FE-Penn Power | Optimization of operating parameters | Mfg: Comp & Elec | Process Refrigeration | New | end use | 7,441 | 13% | 0.14 | 3 | \$60 | 27% | 1.07 |
| FE-Penn Power | VFD on Cooling Tower Fan | Mfg: Comp & Elec | Process Refrigeration | Early | motor | 7,441 | 21% | 0.47 | 15 | \$344 | 20% | 1.93 |
| FE-Penn Power | VFD on Cooling Tower Fan | Mfg: Comp & Elec | Process Refrigeration | New | motor | 7,441 | 22% | 0.47 | 15 | \$350 | 20% | 1.92 |
| FE-Penn Power | VFD on Cooling Tower Fan | Mfg: Comp & Elec | Process Refrigeration | ROB | motor | 7,441 | 22% | 0.47 | 15 | \$350 | 20% | 1.92 |
| FE-Penn Power | Facility Energy Management | Mfg: Comp & Elec | Pumps | Existing | end use | 39,832 | 1.9% | 0.10 | 2 | \$15 | 73% | 1.13 |
| FE-Penn Power | Facility Energy Management | Mfg: Comp & Elec | Pumps | New | end use | 39,832 | 1.9% | 0.10 | 2 | \$15 | 73% | 1.13 |
| FE-Penn Power | HE Motors | Mfg: Comp & Elec | Pumps | Early | end use | 39,832 | 2.0% | 0.11 | 15 | \$237 | 77% | 1.32 |
| FE-Penn Power | HE Motors | Mfg: Comp & Elec | Pumps | New | end use | 39,832 | 2.0% | 0.11 | 15 | \$237 | 77% | 1.32 |
| FE-Penn Power | HE Motors | Mfg: Comp & Elec | Pumps | ROB | end use | 39,832 | 2.0% | 0.11 | 15 | \$237 | 77% | 1.32 |
| FE-Penn Power | Motor rewinds | Mfg: Comp & Elec | Pumps | Existing | end use | 39,832 | 0.6% | 0.03 | 9 | \$57 | 12% | 1.15 |
| FE-Penn Power | Motor rewinds | Mfg: Comp & Elec | Pumps | New | end use | 39,832 | 0.6% | 0.03 | 9 | \$57 | 12% | 1.15 |
| FE-Penn Power | Circulating Fans | Mfg: Food | Fans | Early | end use | 204,721 | 5.0% | 1.22 | 10 | \$1,246 | 68% | 1.94 |
| FE-Penn Power | Circulating Fans | Mfg: Food | Fans | New | end use | 204,721 | 5.0% | 1.22 | 10 | \$1,246 | 68% | 1.94 |
| FE-Penn Power | Circulating Fans | Mfg: Food | Fans | ROB | end use | 204,721 | 5.0% | 1.22 | 10 | \$1,246 | 68% | 1.94 |
| FE-Penn Power | Facility Energy Management | Mfg: Food | Fans | Existing | end use | 204,721 | 1.9% | 0.45 | 2 | \$79 | 77% | 1.11 |
| FE-Penn Power | Facility Energy Management | Mfg: Food | Fans | New | end use | 204,721 | 1.9% | 0.45 | 2 | \$79 | 77% | 1.11 |
| FE-Penn Power | Fan System Optimization | Mfg: Food | Fans | Existing | end use | 204,721 | 7.3% | 1.79 | 10 | \$2,792 | 83% | 1.45 |
| FE-Penn Power | Fan System Optimization | Mfg: Food | Fans | New | end use | 204,721 | 7.3% | 1.79 | 10 | \$2,792 | 83% | 1.45 |
| FE-Penn Power | HE Motors | Mfg: Food | Fans | Early | end use | 204,721 | 2.0% | 0.50 | 15 | \$1,219 | 77% | 1.37 |
| FE-Penn Power | HE Motors | Mfg: Food | Fans | New | end use | 204,721 | 2.0% | 0.50 | 15 | \$1,219 | 77% | 1.37 |
| FE-Penn Power | HE Motors | Mfg: Food | Fans | ROB | end use | 204,721 | 2.0% | 0.50 | 15 | \$1,219 | 77% | 1.37 |
| FE-Penn Power | Improved Controls - Fans | Mfg: Food | Fans | Existing | end use | 204,721 | 7.1% | 1.73 | 10 | \$794 | 60% | 2.98 |
| FE-Penn Power | Improved Controls - Fans | Mfg: Food | Fans | New | end use | 204,721 | 7.1% | 1.73 | 10 | \$794 | 60% | 2.98 |
| FE-Penn Power | Properly Sized Fans | Mfg: Food | Fans | Early | end use | 204,721 | 13% | 3.21 | 10 | \$4,193 | 41% | 1.65 |
| FE-Penn Power | Properly Sized Fans | Mfg: Food | Fans | New | end use | 204,721 | 13% | 3.21 | 10 | \$4,193 | 41% | 1.65 |
| FE-Penn Power | Properly Sized Fans | Mfg: Food | Fans | ROB | end use | 204,721 | 13% | 3.21 | 10 | \$4,193 | 41% | 1.65 |
| FE-Penn Power | Synchronous Belts | Mfg: Food | Fans | Early | end use | 204,721 | 1.2% | 0.28 | 10 | \$302 | 41% | 1.89 |
| FE-Penn Power | Synchronous Belts | Mfg: Food | Fans | New | end use | 204,721 | 1.2% | 0.28 | 10 | \$302 | 41% | 1.89 |
| FE-Penn Power | Synchronous Belts | Mfg: Food | Fans | ROB | end use | 204,721 | 1.2% | 0.28 | 10 | \$302 | 41% | 1.89 |
| FE-Penn Power | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Food | HVAC | Early | unit (ton) | 127,071 | 9.2% | 3.02 | 15 | \$23,158 | 28% | 0.28 |
| FE-Penn Power | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Food | HVAC | New | unit (ton) | 127,071 | 4.1% | 1.36 | 15 | \$5,611 | 28% | 0.50 |
| FE-Penn Power | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Food | HVAC | ROB | unit (ton) | 127,071 | 4.1% | 1.36 | 15 | \$5,611 | 28% | 0.50 |
| FE-Penn Power | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Food | HVAC | Early | unit (ton) | 127,071 | 12% | 4.09 | 15 | \$27,301 | 28% | 0.32 |
| FE-Penn Power | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Food | HVAC | New | unit (ton) | 127,071 | 7.7% | 2.54 | 15 | \$11,817 | 28% | 0.45 |
| FE-Penn Power | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Food | HVAC | ROB | unit (ton) | 127,071 | 7.7% | 2.54 | 15 | \$11,817 | 28% | 0.45 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|-----------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Food | HVAC | Early | unit (ton) | 127,071 | 15% | 5.02 | 15 | \$31,444 | 29% | 0.34 |
| FE-Penn Power | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Food | HVAC | New | unit (ton) | 127,071 | 11% | 3.57 | 15 | \$18,024 | 29% | 0.42 |
| FE-Penn Power | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Food | HVAC | ROB | unit (ton) | 127,071 | 11% | 3.57 | 15 | \$18,024 | 29% | 0.42 |
| FE-Penn Power | >760k min 10.2 EER Air Conditioner | Mfg: Food | HVAC | Early | unit (ton) | 127,071 | 2.1% | 0.70 | 15 | \$40,328 | 35% | 0.04 |
| FE-Penn Power | >760k min 10.2 EER Air Conditioner | Mfg: Food | HVAC | New | unit (ton) | 127,071 | 2.8% | 0.93 | 15 | \$3,645 | 35% | 0.53 |
| FE-Penn Power | >760k min 10.2 EER Air Conditioner | Mfg: Food | HVAC | ROB | unit (ton) | 127,071 | 2.8% | 0.93 | 15 | \$3,645 | 35% | 0.53 |
| FE-Penn Power | 135-240k min 12 EER Air Conditioner | Mfg: Food | HVAC | Early | unit (ton) | 127,071 | 10% | 3.45 | 15 | \$43,669 | 35% | 0.17 |
| FE-Penn Power | 135-240k min 12 EER Air Conditioner | Mfg: Food | HVAC | New | unit (ton) | 127,071 | 5.8% | 1.90 | 15 | \$5,156 | 35% | 0.74 |
| FE-Penn Power | 135-240k min 12 EER Air Conditioner | Mfg: Food | HVAC | ROB | unit (ton) | 127,071 | 5.8% | 1.90 | 15 | \$5,156 | 35% | 0.74 |
| FE-Penn Power | 240k-760k min 11 EER Air Conditioner | Mfg: Food | HVAC | Early | unit (ton) | 127,071 | 5.2% | 1.72 | 15 | \$40,353 | 35% | 0.09 |
| FE-Penn Power | 240k-760k min 11 EER Air Conditioner | Mfg: Food | HVAC | New | unit (ton) | 127,071 | 5.3% | 1.76 | 15 | \$4,323 | 35% | 0.81 |
| FE-Penn Power | 240k-760k min 11 EER Air Conditioner | Mfg: Food | HVAC | ROB | unit (ton) | 127,071 | 5.3% | 1.76 | 15 | \$4,323 | 35% | 0.81 |
| FE-Penn Power | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Food | HVAC | Early | unit (ton) | 127,071 | 9.7% | 3.20 | 15 | \$44,713 | 35% | 0.16 |
| FE-Penn Power | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Food | HVAC | New | unit (ton) | 127,071 | 3.8% | 1.27 | 15 | \$6,379 | 35% | 0.42 |
| FE-Penn Power | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Food | HVAC | ROB | unit (ton) | 127,071 | 3.8% | 1.27 | 15 | \$6,379 | 35% | 0.42 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Mfg: Food | HVAC | Existing | building | 127,071 | 5.9% | 1.89 | 15 | \$385,005 | 71% | 0.01 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Mfg: Food | HVAC | New | building | 127,071 | 3.7% | 1.18 | 15 | \$365,958 | 94% | 0.01 |
| FE-Penn Power | Chiller Tuneup/Diagnostics | Mfg: Food | HVAC | Existing | building | 127,071 | 8.0% | 3.73 | 10 | \$324,469 | 59% | 0.02 |
| FE-Penn Power | Chiller Tuneup/Diagnostics | Mfg: Food | HVAC | New | building | 127,071 | 8.0% | 3.73 | 10 | \$324,469 | 59% | 0.02 |
| FE-Penn Power | Cooling Tower Optimization | Mfg: Food | HVAC | Existing | building | 127,071 | 20% | 9.10 | 10 | \$779 | 69% | 4.73 |
| FE-Penn Power | Duct Insulation, Add R8 | Mfg: Food | HVAC | Existing | building | 127,071 | 1.5% | 0.41 | 15 | \$1,009 | 18% | 0.94 |
| FE-Penn Power | Duct Insulation, Add R8 | Mfg: Food | HVAC | New | building | 127,071 | 1.5% | 0.41 | 15 | \$1,009 | 9% | 0.94 |
| FE-Penn Power | Ductless Heat Pump | Mfg: Food | HVAC | Early | heat pump | 127,071 | 0.8% | 0.24 | 15 | \$10,046 | 83% | 0.06 |
| FE-Penn Power | Ductless Heat Pump | Mfg: Food | HVAC | New | heat pump | 127,071 | 0.4% | 0.12 | 15 | \$2,917 | 83% | 0.10 |
| FE-Penn Power | Ductless Heat Pump | Mfg: Food | HVAC | ROB | heat pump | 127,071 | 0.4% | 0.12 | 15 | \$2,917 | 83% | 0.10 |
| FE-Penn Power | DX Coil Cleaning | Mfg: Food | HVAC | Existing | building | 127,071 | 13% | 5.83 | 1 | \$1,218 | 73% | 0.50 |
| FE-Penn Power | DX Coil Cleaning | Mfg: Food | HVAC | New | building | 127,071 | 13% | 5.83 | 1 | \$1,218 | 73% | 0.50 |
| FE-Penn Power | Efficient Unit Heating System | Mfg: Food | HVAC | Early | heater | 127,071 | 6.9% | 0.07 | 15 | \$6,860 | 83% | 0.52 |
| FE-Penn Power | Efficient Unit Heating System | Mfg: Food | HVAC | New | heater | 127,071 | 4.0% | 0.04 | 15 | \$4,679 | 83% | 0.44 |
| FE-Penn Power | Efficient Unit Heating System | Mfg: Food | HVAC | ROB | heater | 127,071 | 4.0% | 0.04 | 15 | \$4,679 | 83% | 0.44 |
| FE-Penn Power | Ground Source Heat Pump (Closed Loop) | Mfg: Food | HVAC | Early | heat pump | 127,071 | 1.3% | 0.37 | 15 | \$20,860 | 19% | 0.04 |
| FE-Penn Power | Ground Source Heat Pump (Closed Loop) | Mfg: Food | HVAC | New | heat pump | 127,071 | 1.0% | 0.29 | 15 | \$8,236 | 19% | 0.09 |
| FE-Penn Power | Ground Source Heat Pump (Closed Loop) | Mfg: Food | HVAC | ROB | heat pump | 127,071 | 1.0% | 0.29 | 15 | \$8,236 | 19% | 0.09 |
| FE-Penn Power | Ground Source Heat Pump (Open Loop) | Mfg: Food | HVAC | Early | heat pump | 127,071 | 1.3% | 0.37 | 15 | \$13,360 | 19% | 0.07 |
| FE-Penn Power | Ground Source Heat Pump (Open Loop) | Mfg: Food | HVAC | New | heat pump | 127,071 | 1.0% | 0.29 | 15 | \$283 | 19% | 1.92 |
| FE-Penn Power | Ground Source Heat Pump (Open Loop) | Mfg: Food | HVAC | ROB | heat pump | 127,071 | 1.0% | 0.29 | 15 | \$283 | 19% | 1.92 |
| FE-Penn Power | HE Air Cooled Chiller, 100 Tons | Mfg: Food | HVAC | Early | unit (ton) | 127,071 | 1.5% | 0.42 | 15 | \$147,817 | 89% | 0.01 |
| FE-Penn Power | HE Air Cooled Chiller, 100 Tons | Mfg: Food | HVAC | New | unit (ton) | 127,071 | 0.4% | 0.12 | 15 | \$21,534 | 89% | 0.01 |
| FE-Penn Power | HE Air Cooled Chiller, 100 Tons | Mfg: Food | HVAC | ROB | unit (ton) | 127,071 | 0.4% | 0.12 | 15 | \$21,534 | 89% | 0.01 |
| FE-Penn Power | HE Air Cooled Chiller, 150 Tons | Mfg: Food | HVAC | Early | unit (ton) | 127,071 | 1.4% | 0.41 | 15 | \$127,681 | 89% | 0.01 |
| FE-Penn Power | HE Air Cooled Chiller, 150 Tons | Mfg: Food | HVAC | New | unit (ton) | 127,071 | 0.3% | 0.09 | 15 | \$10,575 | 89% | 0.02 |
| FE-Penn Power | HE Air Cooled Chiller, 150 Tons | Mfg: Food | HVAC | ROB | unit (ton) | 127,071 | 0.3% | 0.09 | 15 | \$10,575 | 89% | 0.02 |
| FE-Penn Power | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Food | HVAC | Early | heat pump | 127,071 | 1.4% | 0.39 | 12 | \$5,445 | 81% | 0.15 |
| FE-Penn Power | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Food | HVAC | Early | heat pump | 127,071 | 1.1% | 0.32 | 12 | \$3,978 | 81% | 0.17 |
| FE-Penn Power | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Food | HVAC | New | heat pump | 127,071 | 1.0% | 0.29 | 12 | \$2,431 | 81% | 0.24 |
| FE-Penn Power | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Food | HVAC | New | heat pump | 127,071 | 0.8% | 0.22 | 12 | \$850 | 81% | 0.50 |
| FE-Penn Power | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Food | HVAC | ROB | heat pump | 127,071 | 1.0% | 0.29 | 12 | \$2,431 | 81% | 0.24 |
| FE-Penn Power | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Food | HVAC | ROB | heat pump | 127,071 | 0.8% | 0.22 | 12 | \$850 | 81% | 0.50 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Food | HVAC | Early | unit (ton) | 127,071 | 1.6% | 0.45 | 15 | \$11,728 | 89% | 0.09 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Food | HVAC | New | unit (ton) | 127,071 | 0.9% | 0.26 | 15 | \$3,901 | 89% | 0.16 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|-----------|----------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Food | HVAC | ROB | unit (ton) | 127,071 | 0.9% | 0.26 | 15 | \$3,901 | 89% | 0.16 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Food | HVAC | Early | unit (ton) | 127,071 | 1.4% | 0.40 | 15 | \$11,455 | 89% | 0.09 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Food | HVAC | New | unit (ton) | 127,071 | 1.0% | 0.28 | 15 | \$2,237 | 89% | 0.30 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Food | HVAC | ROB | unit (ton) | 127,071 | 1.4% | 0.40 | 15 | \$2,055 | 89% | 0.46 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Food | HVAC | Early | unit (ton) | 127,071 | 1.4% | 0.40 | 15 | \$13,557 | 89% | 0.07 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Food | HVAC | New | unit (ton) | 127,071 | 0.9% | 0.25 | 15 | \$5,708 | 89% | 0.11 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Food | HVAC | ROB | unit (ton) | 127,071 | 1.4% | 0.40 | 15 | \$5,166 | 89% | 0.19 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Food | HVAC | Early | unit (ton) | 127,071 | 1.4% | 0.40 | 15 | \$13,059 | 89% | 0.07 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Food | HVAC | New | unit (ton) | 127,071 | 0.9% | 0.25 | 15 | \$4,962 | 89% | 0.12 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Food | HVAC | ROB | unit (ton) | 127,071 | 1.4% | 0.40 | 15 | \$4,491 | 89% | 0.21 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Food | HVAC | Early | unit (ton) | 127,071 | 1.8% | 0.51 | 15 | \$14,072 | 89% | 0.09 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Food | HVAC | New | unit (ton) | 127,071 | 0.5% | 0.16 | 15 | \$8,713 | 89% | 0.04 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Food | HVAC | ROB | unit (ton) | 127,071 | 1.8% | 0.51 | 15 | \$6,766 | 89% | 0.18 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Food | HVAC | Early | unit (ton) | 127,071 | 2.1% | 0.61 | 15 | \$12,943 | 89% | 0.12 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Food | HVAC | New | unit (ton) | 127,071 | 0.8% | 0.22 | 15 | \$5,194 | 89% | 0.10 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Food | HVAC | ROB | unit (ton) | 127,071 | 0.8% | 0.22 | 15 | \$5,194 | 89% | 0.10 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Food | HVAC | Early | unit (ton) | 127,071 | 2.4% | 0.69 | 15 | \$10,969 | 89% | 0.15 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Food | HVAC | New | unit (ton) | 127,071 | 0.9% | 0.26 | 15 | \$2,760 | 89% | 0.22 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Food | HVAC | ROB | unit (ton) | 127,071 | 2.4% | 0.69 | 15 | \$1,968 | 89% | 0.78 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Food | HVAC | Early | unit (ton) | 127,071 | 1.8% | 0.52 | 15 | \$10,859 | 89% | 0.12 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Food | HVAC | New | unit (ton) | 127,071 | 0.7% | 0.20 | 15 | \$3,041 | 89% | 0.16 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Food | HVAC | ROB | unit (ton) | 127,071 | 1.8% | 0.52 | 15 | \$2,409 | 89% | 0.50 |
| FE-Penn Power | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Food | HVAC | Existing | building | 127,071 | 2.9% | 0.75 | 5 | \$1,348 | 55% | 0.56 |
| FE-Penn Power | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Food | HVAC | New | building | 127,071 | 0.6% | 0.30 | 5 | \$809 | 51% | 0.27 |
| FE-Penn Power | Improved Controls - HVAC | Mfg: Food | HVAC | Existing | end use | 127,071 | 21% | 3.81 | 10 | \$1,336 | 76% | 3.21 |
| FE-Penn Power | Improved Controls - HVAC | Mfg: Food | HVAC | New | end use | 127,071 | 21% | 3.81 | 10 | \$1,336 | 76% | 3.21 |
| FE-Penn Power | Outside Air Economizer | Mfg: Food | HVAC | Existing | building | 127,071 | 1.1% | 0.36 | 10 | \$466,882 | 82% | 0.00 |
| FE-Penn Power | Outside Air Economizer | Mfg: Food | HVAC | New | building | 127,071 | 1.1% | 0.36 | 10 | \$466,882 | 82% | 0.00 |
| FE-Penn Power | Recommissioning | Mfg: Food | HVAC | Existing | end use | 127,071 | 5.0% | 0.91 | 10 | \$174 | 88% | 3.96 |
| FE-Penn Power | Recommissioning | Mfg: Food | HVAC | New | end use | 127,071 | 5.0% | 0.91 | 10 | \$174 | 88% | 3.96 |
| FE-Penn Power | Room AC (with louvered sides) | Mfg: Food | HVAC | Early | unit (ton) | 127,071 | 7.7% | 2.21 | 9 | \$9,964 | 78% | 0.36 |
| FE-Penn Power | Room AC (with louvered sides) | Mfg: Food | HVAC | New | unit (ton) | 127,071 | 2.6% | 0.74 | 9 | \$546 | 78% | 1.66 |
| FE-Penn Power | Room AC (with louvered sides) | Mfg: Food | HVAC | ROB | unit (ton) | 127,071 | 2.6% | 0.74 | 9 | \$546 | 78% | 1.66 |
| FE-Penn Power | Variable Refrigerant Flow Heat Pump | Mfg: Food | HVAC | New | measure | 127,071 | 0.1% | 0.03 | 13 | \$935 | 43% | 0.08 |
| FE-Penn Power | Variable Refrigerant Flow Heat Pump | Mfg: Food | HVAC | ROB | measure | 127,071 | 0.1% | 0.03 | 13 | \$935 | 43% | 0.08 |
| FE-Penn Power | VFD on Cooling Tower Fan | Mfg: Food | HVAC | Early | motor | 127,071 | 21% | 8.01 | 15 | \$5,868 | 15% | 2.07 |
| FE-Penn Power | VFD on Cooling Tower Fan | Mfg: Food | HVAC | New | motor | 127,071 | 22% | 8.01 | 15 | \$5,979 | 15% | 2.06 |
| FE-Penn Power | VFD on Cooling Tower Fan | Mfg: Food | HVAC | ROB | motor | 127,071 | 22% | 8.01 | 15 | \$5,979 | 15% | 2.06 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Mfg: Food | HVAC | Existing | building | 127,071 | 19% | 6.08 | 15 | \$90,394 | 26% | 0.15 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Mfg: Food | HVAC | New | building | 127,071 | 0.6% | 0.19 | 15 | \$69,336 | 94% | 0.01 |
| FE-Penn Power | Water Source Heat Pump (4 ton) | Mfg: Food | HVAC | Early | heat pump | 127,071 | 1.5% | 0.44 | 15 | \$21,602 | 28% | 0.05 |
| FE-Penn Power | Water Source Heat Pump (4 ton) | Mfg: Food | HVAC | New | heat pump | 127,071 | 1.1% | 0.32 | 15 | \$10,528 | 28% | 0.07 |
| FE-Penn Power | Water Source Heat Pump (4 ton) | Mfg: Food | HVAC | ROB | heat pump | 127,071 | 1.1% | 0.32 | 15 | \$10,528 | 28% | 0.07 |
| FE-Penn Power | Efficient Metal Halide (High Bay) | Mfg: Food | Lighting | Early | end use | 131,205 | 42% | 0.00 | 9 | \$20,502 | 53% | 0.67 |
| FE-Penn Power | Efficient Metal Halide (High Bay) | Mfg: Food | Lighting | New | end use | 131,205 | 41% | 0.00 | 13 | \$547,622 | 61% | 0.04 |
| FE-Penn Power | Efficient Metal Halide (High Bay) | Mfg: Food | Lighting | ROB | end use | 131,205 | 41% | 0.00 | 13 | \$418,524 | 61% | 0.05 |
| FE-Penn Power | Induction (High Bay) | Mfg: Food | Lighting | Early | end use | 131,205 | 94% | 0.00 | 13 | \$61,003 | 95% | 0.68 |
| FE-Penn Power | Induction (High Bay) | Mfg: Food | Lighting | New | end use | 131,205 | 94% | 0.00 | 13 | \$57,114 | 95% | 0.72 |
| FE-Penn Power | Induction (High Bay) | Mfg: Food | Lighting | ROB | end use | 131,205 | 94% | 0.00 | 13 | \$43,409 | 95% | 0.92 |
| FE-Penn Power | LED (High Bay) | Mfg: Food | Lighting | Early | end use | 131,205 | 69% | 0.00 | 14 | \$71,809 | 95% | 0.47 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---------------------------------------|-----------|----------|----------|---------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | LED (High Bay) | Mfg: Food | Lighting | New | end use | 131,205 | 55% | 0.00 | 14 | \$79,707 | 95% | 0.35 |
| FE-Penn Power | LED (High Bay) | Mfg: Food | Lighting | ROB | end use | 131,205 | 59% | 0.00 | 14 | \$52,517 | 95% | 0.54 |
| FE-Penn Power | Lighting Controls | Mfg: Food | Lighting | Existing | end use | 131,205 | 20% | 0.00 | 6 | \$491,870 | 16% | 0.01 |
| FE-Penn Power | Lighting Controls | Mfg: Food | Lighting | New | end use | 131,205 | 12% | 0.00 | 10 | \$654,348 | 11% | 0.01 |
| FE-Penn Power | Linear Fluorescent (High Bay) | Mfg: Food | Lighting | Early | end use | 131,205 | 17% | 0.00 | 14 | \$15,013 | 98% | 0.54 |
| FE-Penn Power | Linear Fluorescent (High Bay) | Mfg: Food | Lighting | New | end use | 131,205 | 13% | 0.00 | 14 | \$4,761 | 91% | 1.15 |
| FE-Penn Power | Linear Fluorescent (High Bay) | Mfg: Food | Lighting | ROB | end use | 131,205 | 13% | 0.00 | 14 | \$3,048 | 91% | 1.66 |
| FE-Penn Power | Metal Halide (High Bay) | Mfg: Food | Lighting | Early | end use | 131,205 | 62% | 0.00 | 13 | \$90,195 | 38% | 0.33 |
| FE-Penn Power | Metal Halide (High Bay) | Mfg: Food | Lighting | New | end use | 131,205 | 73% | 0.00 | 13 | \$21,564 | 38% | 1.30 |
| FE-Penn Power | Metal Halide (High Bay) | Mfg: Food | Lighting | ROB | end use | 131,205 | 73% | 0.00 | 13 | \$16,389 | 38% | 1.59 |
| FE-Penn Power | Screw Base CFL | Mfg: Food | Lighting | Early | end use | 131,205 | 80% | 0.00 | 7 | \$35,645 | 17% | 0.60 |
| FE-Penn Power | Screw Base CFL | Mfg: Food | Lighting | New | end use | 131,205 | 73% | 0.00 | 9 | \$29,131 | 18% | 0.79 |
| FE-Penn Power | Screw Base CFL | Mfg: Food | Lighting | ROB | end use | 131,205 | 73% | 0.00 | 9 | \$24,383 | 17% | 0.91 |
| FE-Penn Power | Screw Base LED | Mfg: Food | Lighting | Early | end use | 131,205 | 76% | 0.00 | 9 | \$21,876 | 21% | 1.06 |
| FE-Penn Power | Screw Base LED | Mfg: Food | Lighting | New | end use | 131,205 | 77% | 0.00 | 9 | \$12,186 | 20% | 1.61 |
| FE-Penn Power | Screw Base LED | Mfg: Food | Lighting | ROB | end use | 131,205 | 77% | 0.00 | 9 | \$9,674 | 21% | 1.85 |
| FE-Penn Power | T8 High Performance Linear Florescent | Mfg: Food | Lighting | Early | end use | 131,205 | 36% | 0.00 | 14 | \$12,555 | 71% | 1.22 |
| FE-Penn Power | T8 High Performance Linear Florescent | Mfg: Food | Lighting | New | end use | 131,205 | 26% | 0.00 | 14 | \$4,492 | 76% | 2.05 |
| FE-Penn Power | T8 High Performance Linear Florescent | Mfg: Food | Lighting | ROB | end use | 131,205 | 26% | 0.00 | 14 | \$3,414 | 76% | 2.42 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Food | Motors | Early | end use | 64,633 | 0.9% | 0.08 | 15 | \$987 | 81% | 0.28 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Food | Motors | New | end use | 64,633 | 0.9% | 0.08 | 15 | \$987 | 81% | 0.28 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Food | Motors | ROB | end use | 64,633 | 0.9% | 0.08 | 15 | \$987 | 81% | 0.28 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Food | Motors | Early | end use | 64,633 | 0.7% | 0.07 | 15 | \$600 | 73% | 0.37 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Food | Motors | New | end use | 64,633 | 0.8% | 0.07 | 15 | \$600 | 73% | 0.38 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Food | Motors | ROB | end use | 64,633 | 0.8% | 0.07 | 15 | \$600 | 73% | 0.38 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Food | Motors | Early | end use | 64,633 | 0.5% | 0.04 | 15 | \$230 | 81% | 0.58 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Food | Motors | New | end use | 64,633 | 0.5% | 0.04 | 15 | \$230 | 81% | 0.57 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Food | Motors | ROB | end use | 64,633 | 0.5% | 0.04 | 15 | \$230 | 81% | 0.58 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Food | Motors | Early | end use | 64,633 | 0.4% | 0.04 | 15 | \$76 | 73% | 1.33 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Food | Motors | New | end use | 64,633 | 0.4% | 0.04 | 15 | \$76 | 73% | 1.35 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Food | Motors | ROB | end use | 64,633 | 0.4% | 0.04 | 15 | \$76 | 73% | 1.34 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Food | Motors | Early | end use | 64,633 | 0.9% | 0.08 | 15 | \$114 | 47% | 1.87 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Food | Motors | New | end use | 64,633 | 0.9% | 0.08 | 15 | \$114 | 47% | 1.85 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Food | Motors | ROB | end use | 64,633 | 0.9% | 0.08 | 15 | \$114 | 47% | 1.88 |
| FE-Penn Power | Facility Energy Management | Mfg: Food | Motors | Existing | end use | 64,633 | 1.9% | 0.17 | 2 | \$25 | 77% | 1.09 |
| FE-Penn Power | Facility Energy Management | Mfg: Food | Motors | New | end use | 64,633 | 1.9% | 0.17 | 2 | \$25 | 77% | 1.09 |
| FE-Penn Power | HE Motors | Mfg: Food | Motors | Early | end use | 64,633 | 2.0% | 0.19 | 15 | \$385 | 38% | 1.34 |
| FE-Penn Power | HE Motors | Mfg: Food | Motors | New | end use | 64,633 | 2.0% | 0.19 | 15 | \$385 | 38% | 1.34 |
| FE-Penn Power | HE Motors | Mfg: Food | Motors | ROB | end use | 64,633 | 2.0% | 0.19 | 15 | \$385 | 38% | 1.34 |
| FE-Penn Power | High-Efficiency Ventilation System | Mfg: Food | Motors | Early | end use | 64,633 | 5.7% | 0.52 | 10 | \$4,039 | 73% | 0.31 |
| FE-Penn Power | High-Efficiency Ventilation System | Mfg: Food | Motors | New | end use | 64,633 | 5.7% | 0.52 | 10 | \$4,039 | 73% | 0.31 |
| FE-Penn Power | High-Efficiency Ventilation System | Mfg: Food | Motors | ROB | end use | 64,633 | 5.7% | 0.52 | 10 | \$4,039 | 73% | 0.31 |
| FE-Penn Power | Improved Controls - Motors | Mfg: Food | Motors | Existing | end use | 64,633 | 4.0% | 0.37 | 10 | \$281 | 73% | 2.03 |
| FE-Penn Power | Improved Controls - Motors | Mfg: Food | Motors | New | end use | 64,633 | 4.0% | 0.37 | 10 | \$281 | 73% | 2.03 |
| FE-Penn Power | Motor Management Plan | Mfg: Food | Motors | Existing | end use | 64,633 | 2.9% | 0.27 | 10 | \$132 | 73% | 2.60 |
| FE-Penn Power | Motor Management Plan | Mfg: Food | Motors | New | end use | 64,633 | 2.9% | 0.27 | 10 | \$132 | 73% | 2.60 |
| FE-Penn Power | Motors Other | Mfg: Food | Motors | Existing | end use | 64,633 | 1.1% | 0.10 | 15 | \$13 | 83% | 5.48 |
| FE-Penn Power | Motors Other | Mfg: Food | Motors | New | end use | 64,633 | 1.1% | 0.10 | 15 | \$13 | 83% | 5.48 |
| FE-Penn Power | Motors: Rewind 101-200 HP | Mfg: Food | Motors | Existing | end use | 64,633 | 0.6% | 0.05 | 10 | \$82 | 27% | 1.24 |
| FE-Penn Power | Motors: Rewind 101-200 HP | Mfg: Food | Motors | New | end use | 64,633 | 0.6% | 0.05 | 10 | \$82 | 27% | 1.25 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|--|-----------|------------------------|----------|---------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Motors: Rewind 201-500 HP | Mfg: Food | Motors | Existing | end use | 64,633 | 0.6% | 0.05 | 8 | \$51 | 27% | 1.47 |
| FE-Penn Power | Motors: Rewind 201-500 HP | Mfg: Food | Motors | New | end use | 64,633 | 0.6% | 0.05 | 8 | \$51 | 27% | 1.48 |
| FE-Penn Power | Motors: Rewind 20-50 HP | Mfg: Food | Motors | Existing | end use | 64,633 | 1.0% | 0.10 | 11 | \$240 | 42% | 0.92 |
| FE-Penn Power | Motors: Rewind 20-50 HP | Mfg: Food | Motors | New | end use | 64,633 | 1.0% | 0.10 | 11 | \$240 | 42% | 0.92 |
| FE-Penn Power | Motors: Rewind 500+ HP | Mfg: Food | Motors | Existing | end use | 64,633 | 0.6% | 0.05 | 8 | \$37 | 11% | 1.85 |
| FE-Penn Power | Motors: Rewind 500+ HP | Mfg: Food | Motors | New | end use | 64,633 | 0.6% | 0.05 | 8 | \$37 | 11% | 1.83 |
| FE-Penn Power | Motors: Rewind 51-100 HP | Mfg: Food | Motors | Existing | end use | 64,633 | 0.6% | 0.06 | 9 | \$118 | 42% | 0.92 |
| FE-Penn Power | Motors: Rewind 51-100 HP | Mfg: Food | Motors | New | end use | 64,633 | 0.6% | 0.06 | 9 | \$118 | 42% | 0.91 |
| FE-Penn Power | Switch from Belt drive to Direct Drive | Mfg: Food | Motors | Early | end use | 64,633 | 7.5% | 0.69 | 12 | \$1,037 | 30% | 1.45 |
| FE-Penn Power | Switch from Belt drive to Direct Drive | Mfg: Food | Motors | New | end use | 64,633 | 7.5% | 0.69 | 12 | \$1,037 | 30% | 1.45 |
| FE-Penn Power | Switch from Belt drive to Direct Drive | Mfg: Food | Motors | ROB | end use | 64,633 | 7.5% | 0.69 | 12 | \$1,037 | 30% | 1.45 |
| FE-Penn Power | Synchronous Belts | Mfg: Food | Motors | Early | end use | 64,633 | 1.2% | 0.11 | 10 | \$95 | 30% | 1.86 |
| FE-Penn Power | Synchronous Belts | Mfg: Food | Motors | New | end use | 64,633 | 1.2% | 0.11 | 10 | \$95 | 30% | 1.86 |
| FE-Penn Power | Synchronous Belts | Mfg: Food | Motors | ROB | end use | 64,633 | 1.2% | 0.11 | 10 | \$95 | 30% | 1.86 |
| FE-Penn Power | Bldg Improvements | Mfg: Food | Other | Existing | end use | 44,306 | 16% | 0.85 | 15 | \$966 | 72% | 2.31 |
| FE-Penn Power | Bldg Improvements | Mfg: Food | Other | New | end use | 44,306 | 16% | 0.85 | 15 | \$966 | 72% | 2.31 |
| FE-Penn Power | Energy Project Management | Mfg: Food | Other | Existing | end use | 44,306 | 29% | 1.53 | 11 | \$1,582 | 63% | 1.95 |
| FE-Penn Power | Energy Project Management | Mfg: Food | Other | New | end use | 44,306 | 29% | 1.53 | 11 | \$1,582 | 63% | 1.95 |
| FE-Penn Power | Facility Energy Management | Mfg: Food | Other | Existing | end use | 44,306 | 1.9% | 0.10 | 2 | \$17 | 76% | 1.07 |
| FE-Penn Power | Facility Energy Management | Mfg: Food | Other | New | end use | 44,306 | 1.9% | 0.10 | 2 | \$17 | 76% | 1.06 |
| FE-Penn Power | Integrated Plant Energy Management | Mfg: Food | Other | Existing | end use | 44,306 | 50% | 2.64 | 11 | \$4,367 | 48% | 1.41 |
| FE-Penn Power | Integrated Plant Energy Management | Mfg: Food | Other | New | end use | 44,306 | 50% | 2.64 | 11 | \$4,367 | 48% | 1.41 |
| FE-Penn Power | Plant Energy Management | Mfg: Food | Other | Existing | end use | 44,306 | 12% | 0.63 | 10 | \$111 | 55% | 3.90 |
| FE-Penn Power | Plant Energy Management | Mfg: Food | Other | New | end use | 44,306 | 12% | 0.63 | 10 | \$111 | 55% | 3.90 |
| FE-Penn Power | Transformers | Mfg: Food | Other | Early | end use | 44,306 | 1.6% | 0.08 | 15 | \$142 | 34% | 1.71 |
| FE-Penn Power | Transformers | Mfg: Food | Other | New | end use | 44,306 | 1.6% | 0.08 | 15 | \$142 | 34% | 1.71 |
| FE-Penn Power | Transformers | Mfg: Food | Other | ROB | end use | 44,306 | 1.6% | 0.08 | 15 | \$142 | 34% | 1.72 |
| FE-Penn Power | Air Compressor Demand Reduction | Mfg: Food | Process Air Compressor | Existing | end use | 728 | 26% | 0.02 | 10 | \$11 | 52% | 2.80 |
| FE-Penn Power | Air Compressor Demand Reduction | Mfg: Food | Process Air Compressor | New | end use | 728 | 26% | 0.02 | 10 | \$11 | 52% | 2.80 |
| FE-Penn Power | Air Compressor Equipment | Mfg: Food | Process Air Compressor | Early | end use | 728 | 39% | 0.04 | 10 | \$13 | 73% | 3.08 |
| FE-Penn Power | Air Compressor Equipment | Mfg: Food | Process Air Compressor | New | end use | 728 | 39% | 0.04 | 10 | \$13 | 73% | 3.08 |
| FE-Penn Power | Air Compressor Equipment | Mfg: Food | Process Air Compressor | ROB | end use | 728 | 39% | 0.04 | 10 | \$13 | 73% | 3.08 |
| FE-Penn Power | Air Compressor Optimization | Mfg: Food | Process Air Compressor | Existing | end use | 728 | 39% | 0.04 | 10 | \$32 | 55% | 1.99 |
| FE-Penn Power | Air Compressor Optimization | Mfg: Food | Process Air Compressor | New | end use | 728 | 39% | 0.04 | 10 | \$32 | 55% | 1.99 |
| FE-Penn Power | Facility Energy Management | Mfg: Food | Process Air Compressor | Existing | end use | 728 | 1.9% | 0.00 | 2 | \$0.3 | 62% | 1.08 |
| FE-Penn Power | Facility Energy Management | Mfg: Food | Process Air Compressor | New | end use | 728 | 1.9% | 0.00 | 2 | \$0.3 | 62% | 1.08 |
| FE-Penn Power | HE Compressor motors | Mfg: Food | Process Air Compressor | Early | end use | 728 | 1.1% | 0.00 | 15 | \$2.7 | 73% | 1.17 |
| FE-Penn Power | HE Compressor motors | Mfg: Food | Process Air Compressor | New | end use | 728 | 1.1% | 0.00 | 15 | \$2.7 | 73% | 1.17 |
| FE-Penn Power | HE Compressor motors | Mfg: Food | Process Air Compressor | ROB | end use | 728 | 1.1% | 0.00 | 15 | \$2.7 | 73% | 1.16 |
| FE-Penn Power | Improved Controls - Air Compressor | Mfg: Food | Process Air Compressor | Existing | end use | 728 | 41% | 0.04 | 10 | \$13 | 25% | 3.15 |
| FE-Penn Power | Improved Controls - Air Compressor | Mfg: Food | Process Air Compressor | New | end use | 728 | 41% | 0.04 | 10 | \$13 | 25% | 3.15 |
| FE-Penn Power | Low Pressure-drop Filters | Mfg: Food | Process Air Compressor | Existing | end use | 728 | 1.8% | 0.00 | 10 | \$8.3 | 61% | 0.53 |
| FE-Penn Power | Low Pressure-drop Filters | Mfg: Food | Process Air Compressor | New | end use | 728 | 1.8% | 0.00 | 10 | \$8.3 | 61% | 0.53 |
| FE-Penn Power | Outside Air Intake | Mfg: Food | Process Air Compressor | Existing | end use | 728 | 1.4% | 0.00 | 10 | \$4.8 | 48% | 0.69 |
| FE-Penn Power | Outside Air Intake | Mfg: Food | Process Air Compressor | New | end use | 728 | 1.4% | 0.00 | 10 | \$4.8 | 48% | 0.68 |
| FE-Penn Power | Receiver Capacity Addition | Mfg: Food | Process Air Compressor | Existing | end use | 728 | 6.0% | 0.01 | 10 | \$14 | 36% | 0.94 |
| FE-Penn Power | Receiver Capacity Addition | Mfg: Food | Process Air Compressor | New | end use | 728 | 5.9% | 0.01 | 10 | \$14 | 36% | 0.94 |
| FE-Penn Power | Refrigerated Cycling Dryers | Mfg: Food | Process Air Compressor | Early | end use | 728 | 1.7% | 0.00 | 10 | \$1.7 | 21% | 1.74 |
| FE-Penn Power | Refrigerated Cycling Dryers | Mfg: Food | Process Air Compressor | New | end use | 728 | 1.7% | 0.00 | 10 | \$1.7 | 21% | 1.74 |
| FE-Penn Power | Refrigerated Cycling Dryers | Mfg: Food | Process Air Compressor | ROB | end use | 728 | 1.7% | 0.00 | 10 | \$1.7 | 21% | 1.74 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---------------------------------------|-----------|------------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | VFD Controlled Compressor | Mfg: Food | Process Air Compressor | Early | end use | 728 | 24% | 0.02 | 10 | \$72 | 28% | 0.74 |
| FE-Penn Power | VFD Controlled Compressor | Mfg: Food | Process Air Compressor | New | end use | 728 | 24% | 0.02 | 10 | \$72 | 28% | 0.74 |
| FE-Penn Power | VFD Controlled Compressor | Mfg: Food | Process Air Compressor | ROB | end use | 728 | 24% | 0.02 | 10 | \$72 | 28% | 0.74 |
| FE-Penn Power | Zero Loss Condensate Drain | Mfg: Food | Process Air Compressor | Early | end use | 728 | 1.9% | 0.00 | 10 | \$4.2 | 36% | 0.95 |
| FE-Penn Power | Zero Loss Condensate Drain | Mfg: Food | Process Air Compressor | New | end use | 728 | 1.9% | 0.00 | 10 | \$4.2 | 36% | 0.95 |
| FE-Penn Power | Zero Loss Condensate Drain | Mfg: Food | Process Air Compressor | ROB | end use | 728 | 1.8% | 0.00 | 10 | \$4.2 | 36% | 0.95 |
| FE-Penn Power | Cooling Tower Optimization | Mfg: Food | Process Cooling | Existing | building | 242,422 | 20% | 20.11 | 10 | \$1,487 | 15% | 4.68 |
| FE-Penn Power | Equipment: Chillers | Mfg: Food | Process Cooling | Early | end use | 242,422 | 18% | 9.04 | 15 | \$11,377 | 68% | 1.53 |
| FE-Penn Power | Equipment: Chillers | Mfg: Food | Process Cooling | New | end use | 242,422 | 18% | 9.04 | 15 | \$11,377 | 68% | 1.53 |
| FE-Penn Power | Equipment: Chillers | Mfg: Food | Process Cooling | ROB | end use | 242,422 | 18% | 9.04 | 15 | \$11,377 | 68% | 1.53 |
| FE-Penn Power | Facility Energy Management | Mfg: Food | Process Cooling | Existing | end use | 242,422 | 1.9% | 0.93 | 2 | \$93 | 86% | 1.15 |
| FE-Penn Power | Facility Energy Management | Mfg: Food | Process Cooling | New | end use | 242,422 | 1.9% | 0.93 | 2 | \$93 | 86% | 1.15 |
| FE-Penn Power | Food: Refrig Storage Tuneup | Mfg: Food | Process Cooling | Existing | end use | 242,422 | 14% | 7.26 | 3 | \$1,512 | 47% | 1.32 |
| FE-Penn Power | Food: Refrig Storage Tuneup | Mfg: Food | Process Cooling | New | end use | 242,422 | 14% | 7.26 | 3 | \$1,512 | 47% | 1.32 |
| FE-Penn Power | Fruit Storage Refer Retrofit | Mfg: Food | Process Cooling | Existing | end use | 242,422 | 38% | 19.32 | 10 | \$15,674 | 12% | 1.61 |
| FE-Penn Power | Fruit Storage Refer Retrofit | Mfg: Food | Process Cooling | New | end use | 242,422 | 38% | 19.32 | 10 | \$15,674 | 12% | 1.61 |
| FE-Penn Power | Fruit Storage Tuneup | Mfg: Food | Process Cooling | Existing | end use | 242,422 | 16% | 7.89 | 3 | \$1,644 | 12% | 1.32 |
| FE-Penn Power | Fruit Storage Tuneup | Mfg: Food | Process Cooling | New | end use | 242,422 | 16% | 7.89 | 3 | \$1,644 | 12% | 1.32 |
| FE-Penn Power | Improved Controls - Process Cooling | Mfg: Food | Process Cooling | Existing | end use | 242,422 | 6.0% | 3.03 | 10 | \$12,800 | 81% | 0.41 |
| FE-Penn Power | Improved Controls - Process Cooling | Mfg: Food | Process Cooling | New | end use | 242,422 | 6.0% | 3.03 | 10 | \$12,800 | 81% | 0.40 |
| FE-Penn Power | VFD on Cooling Tower Fan | Mfg: Food | Process Cooling | Early | motor | 242,422 | 21% | 15.29 | 15 | \$11,194 | 20% | 1.93 |
| FE-Penn Power | VFD on Cooling Tower Fan | Mfg: Food | Process Cooling | New | motor | 242,422 | 22% | 15.29 | 15 | \$11,407 | 20% | 1.92 |
| FE-Penn Power | VFD on Cooling Tower Fan | Mfg: Food | Process Cooling | ROB | motor | 242,422 | 22% | 15.29 | 15 | \$11,407 | 20% | 1.92 |
| FE-Penn Power | Improved Controls - Process Heating | Mfg: Food | Process Heating | Existing | end use | 64,409 | 17% | 1.51 | 10 | \$740 | 77% | 2.58 |
| FE-Penn Power | Improved Controls - Process Heating | Mfg: Food | Process Heating | New | end use | 64,409 | 17% | 1.51 | 10 | \$740 | 77% | 2.58 |
| FE-Penn Power | Process Heat O&M | Mfg: Food | Process Heating | Existing | end use | 64,409 | 16% | 1.43 | 2 | \$447 | 77% | 0.85 |
| FE-Penn Power | Process Heat O&M | Mfg: Food | Process Heating | New | end use | 64,409 | 16% | 1.43 | 2 | \$447 | 77% | 0.85 |
| FE-Penn Power | Facility Energy Management | Mfg: Food | Process Other | Existing | end use | 6,206 | 1.9% | 0.02 | 2 | \$2.4 | 73% | 1.06 |
| FE-Penn Power | Facility Energy Management | Mfg: Food | Process Other | New | end use | 6,206 | 1.9% | 0.02 | 2 | \$2.4 | 73% | 1.06 |
| FE-Penn Power | Adjustable speed drive on compressors | Mfg: Food | Process Refrigeration | Early | end use | 124,530 | 12% | 2.13 | 10 | \$2,303 | 81% | 1.61 |
| FE-Penn Power | Adjustable speed drive on compressors | Mfg: Food | Process Refrigeration | New | end use | 124,530 | 12% | 2.13 | 10 | \$2,303 | 81% | 1.61 |
| FE-Penn Power | Adjustable speed drive on compressors | Mfg: Food | Process Refrigeration | ROB | end use | 124,530 | 12% | 2.13 | 10 | \$2,303 | 81% | 1.61 |
| FE-Penn Power | Cold Storage Retrofit | Mfg: Food | Process Refrigeration | Existing | end use | 124,530 | 18% | 3.33 | 10 | \$3,883 | 73% | 1.50 |
| FE-Penn Power | Cold Storage Retrofit | Mfg: Food | Process Refrigeration | New | end use | 124,530 | 18% | 3.33 | 10 | \$3,883 | 73% | 1.50 |
| FE-Penn Power | Cold Storage Tuneup | Mfg: Food | Process Refrigeration | Existing | end use | 124,530 | 13% | 2.46 | 3 | \$950 | 73% | 1.11 |
| FE-Penn Power | Cold Storage Tuneup | Mfg: Food | Process Refrigeration | New | end use | 124,530 | 13% | 2.46 | 3 | \$950 | 73% | 1.11 |
| FE-Penn Power | Cooling Tower Optimization | Mfg: Food | Process Refrigeration | Existing | building | 124,530 | 20% | 10.33 | 10 | \$764 | 15% | 4.68 |
| FE-Penn Power | Food: Cooling and Storage | Mfg: Food | Process Refrigeration | Existing | end use | 124,530 | 15% | 2.74 | 10 | \$5,604 | 73% | 0.98 |
| FE-Penn Power | Food: Cooling and Storage | Mfg: Food | Process Refrigeration | New | end use | 124,530 | 15% | 2.74 | 10 | \$5,604 | 73% | 0.98 |
| FE-Penn Power | Optimization of operating parameters | Mfg: Food | Process Refrigeration | Existing | end use | 124,530 | 13% | 2.39 | 3 | \$1,005 | 73% | 1.07 |
| FE-Penn Power | Optimization of operating parameters | Mfg: Food | Process Refrigeration | New | end use | 124,530 | 13% | 2.39 | 3 | \$1,005 | 73% | 1.07 |
| FE-Penn Power | Synchronous Belts | Mfg: Food | Process Refrigeration | Early | end use | 124,530 | 1.2% | 0.21 | 10 | \$184 | 81% | 1.87 |
| FE-Penn Power | Synchronous Belts | Mfg: Food | Process Refrigeration | New | end use | 124,530 | 1.2% | 0.21 | 10 | \$184 | 81% | 1.87 |
| FE-Penn Power | Synchronous Belts | Mfg: Food | Process Refrigeration | ROB | end use | 124,530 | 1.2% | 0.21 | 10 | \$184 | 81% | 1.87 |
| FE-Penn Power | VFD on Cooling Tower Fan | Mfg: Food | Process Refrigeration | Early | motor | 124,530 | 21% | 7.85 | 15 | \$5,750 | 20% | 1.93 |
| FE-Penn Power | VFD on Cooling Tower Fan | Mfg: Food | Process Refrigeration | New | motor | 124,530 | 22% | 7.85 | 15 | \$5,860 | 20% | 1.92 |
| FE-Penn Power | VFD on Cooling Tower Fan | Mfg: Food | Process Refrigeration | ROB | motor | 124,530 | 22% | 7.85 | 15 | \$5,860 | 20% | 1.92 |
| FE-Penn Power | Facility Energy Management | Mfg: Food | Pumps | Existing | end use | 362,306 | 1.9% | 0.87 | 2 | \$140 | 65% | 1.13 |
| FE-Penn Power | Facility Energy Management | Mfg: Food | Pumps | New | end use | 362,306 | 1.9% | 0.87 | 2 | \$140 | 65% | 1.13 |
| FE-Penn Power | HE Motors | Mfg: Food | Pumps | Early | end use | 362,306 | 2.0% | 0.96 | 15 | \$2,157 | 69% | 1.32 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|--|-------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | HE Motors | Mfg: Food | Pumps | New | end use | 362,306 | 2.0% | 0.96 | 15 | \$2,157 | 69% | 1.32 |
| FE-Penn Power | HE Motors | Mfg: Food | Pumps | ROB | end use | 362,306 | 2.0% | 0.96 | 15 | \$2,157 | 69% | 1.32 |
| FE-Penn Power | Motor rewinds | Mfg: Food | Pumps | Existing | end use | 362,306 | 0.6% | 0.28 | 9 | \$515 | 11% | 1.15 |
| FE-Penn Power | Motor rewinds | Mfg: Food | Pumps | New | end use | 362,306 | 0.6% | 0.28 | 9 | \$515 | 11% | 1.14 |
| FE-Penn Power | Pump Equipment Upgrade | Mfg: Food | Pumps | Early | end use | 362,306 | 20% | 9.43 | 12 | \$9,058 | 77% | 2.08 |
| FE-Penn Power | Pump Equipment Upgrade | Mfg: Food | Pumps | New | end use | 362,306 | 20% | 9.43 | 12 | \$9,058 | 77% | 2.08 |
| FE-Penn Power | Pump Equipment Upgrade | Mfg: Food | Pumps | ROB | end use | 362,306 | 20% | 9.43 | 12 | \$9,058 | 77% | 2.08 |
| FE-Penn Power | Pump System Optimization | Mfg: Food | Pumps | Existing | end use | 362,306 | 8.7% | 4.10 | 12 | \$6,634 | 36% | 1.51 |
| FE-Penn Power | Pump System Optimization | Mfg: Food | Pumps | New | end use | 362,306 | 8.7% | 4.10 | 12 | \$6,634 | 36% | 1.51 |
| FE-Penn Power | Synchronous Belts | Mfg: Food | Pumps | Early | end use | 362,306 | 1.2% | 0.55 | 10 | \$534 | 57% | 1.83 |
| FE-Penn Power | Synchronous Belts | Mfg: Food | Pumps | New | end use | 362,306 | 1.2% | 0.55 | 10 | \$534 | 57% | 1.83 |
| FE-Penn Power | Synchronous Belts | Mfg: Food | Pumps | ROB | end use | 362,306 | 1.2% | 0.55 | 10 | \$534 | 57% | 1.83 |
| FE-Penn Power | Circulating Fans | Mfg: Metals | Fans | Early | end use | 1,441,365 | 5.0% | 8.58 | 10 | \$8,774 | 68% | 1.94 |
| FE-Penn Power | Circulating Fans | Mfg: Metals | Fans | New | end use | 1,441,365 | 5.0% | 8.58 | 10 | \$8,774 | 68% | 1.94 |
| FE-Penn Power | Circulating Fans | Mfg: Metals | Fans | ROB | end use | 1,441,365 | 5.0% | 8.58 | 10 | \$8,774 | 68% | 1.94 |
| FE-Penn Power | Facility Energy Management | Mfg: Metals | Fans | Existing | end use | 1,441,365 | 1.9% | 3.16 | 2 | \$555 | 77% | 1.12 |
| FE-Penn Power | Facility Energy Management | Mfg: Metals | Fans | New | end use | 1,441,365 | 1.9% | 3.16 | 2 | \$555 | 77% | 1.11 |
| FE-Penn Power | HE Motors | Mfg: Metals | Fans | Early | end use | 1,441,365 | 2.0% | 3.51 | 15 | \$8,581 | 77% | 1.37 |
| FE-Penn Power | HE Motors | Mfg: Metals | Fans | New | end use | 1,441,365 | 2.0% | 3.51 | 15 | \$8,581 | 77% | 1.37 |
| FE-Penn Power | HE Motors | Mfg: Metals | Fans | ROB | end use | 1,441,365 | 2.0% | 3.51 | 15 | \$8,581 | 77% | 1.37 |
| FE-Penn Power | Improved Controls - Fans | Mfg: Metals | Fans | Existing | end use | 1,441,365 | 7.1% | 12.19 | 10 | \$5,588 | 60% | 2.98 |
| FE-Penn Power | Improved Controls - Fans | Mfg: Metals | Fans | New | end use | 1,441,365 | 7.1% | 12.19 | 10 | \$5,588 | 60% | 2.98 |
| FE-Penn Power | Properly Sized Fans | Mfg: Metals | Fans | Early | end use | 1,441,365 | 13% | 22.58 | 10 | \$29,521 | 41% | 1.65 |
| FE-Penn Power | Properly Sized Fans | Mfg: Metals | Fans | New | end use | 1,441,365 | 13% | 22.58 | 10 | \$29,521 | 41% | 1.65 |
| FE-Penn Power | Properly Sized Fans | Mfg: Metals | Fans | ROB | end use | 1,441,365 | 13% | 22.58 | 10 | \$29,521 | 41% | 1.65 |
| FE-Penn Power | Synchronous Belts | Mfg: Metals | Fans | Early | end use | 1,441,365 | 1.2% | 2.00 | 10 | \$2,124 | 41% | 1.89 |
| FE-Penn Power | Synchronous Belts | Mfg: Metals | Fans | New | end use | 1,441,365 | 1.2% | 2.00 | 10 | \$2,124 | 41% | 1.89 |
| FE-Penn Power | Synchronous Belts | Mfg: Metals | Fans | ROB | end use | 1,441,365 | 1.2% | 2.00 | 10 | \$2,124 | 41% | 1.89 |
| FE-Penn Power | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Metals | HVAC | Early | unit (ton) | 839,618 | 9.2% | 19.99 | 15 | \$153,016 | 28% | 0.28 |
| FE-Penn Power | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Metals | HVAC | New | unit (ton) | 839,618 | 4.1% | 8.98 | 15 | \$37,073 | 28% | 0.50 |
| FE-Penn Power | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Metals | HVAC | ROB | unit (ton) | 839,618 | 4.1% | 8.98 | 15 | \$37,073 | 28% | 0.50 |
| FE-Penn Power | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Metals | HVAC | Early | unit (ton) | 839,618 | 12% | 27.03 | 15 | \$180,390 | 28% | 0.32 |
| FE-Penn Power | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Metals | HVAC | New | unit (ton) | 839,618 | 7.7% | 16.76 | 15 | \$78,083 | 28% | 0.45 |
| FE-Penn Power | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Metals | HVAC | ROB | unit (ton) | 839,618 | 7.7% | 16.76 | 15 | \$78,083 | 28% | 0.45 |
| FE-Penn Power | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Metals | HVAC | Early | unit (ton) | 839,618 | 15% | 33.20 | 15 | \$207,763 | 29% | 0.34 |
| FE-Penn Power | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Metals | HVAC | New | unit (ton) | 839,618 | 11% | 23.56 | 15 | \$119,093 | 29% | 0.42 |
| FE-Penn Power | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Metals | HVAC | ROB | unit (ton) | 839,618 | 11% | 23.56 | 15 | \$119,093 | 29% | 0.42 |
| FE-Penn Power | >760k min 10.2 EER Air Conditioner | Mfg: Metals | HVAC | Early | unit (ton) | 839,618 | 2.1% | 4.63 | 15 | \$266,467 | 35% | 0.04 |
| FE-Penn Power | >760k min 10.2 EER Air Conditioner | Mfg: Metals | HVAC | New | unit (ton) | 839,618 | 2.8% | 6.16 | 15 | \$24,083 | 35% | 0.53 |
| FE-Penn Power | >760k min 10.2 EER Air Conditioner | Mfg: Metals | HVAC | ROB | unit (ton) | 839,618 | 2.8% | 6.16 | 15 | \$24,083 | 35% | 0.53 |
| FE-Penn Power | 135-240k min 12 EER Air Conditioner | Mfg: Metals | HVAC | Early | unit (ton) | 839,618 | 10% | 22.79 | 15 | \$288,542 | 35% | 0.17 |
| FE-Penn Power | 135-240k min 12 EER Air Conditioner | Mfg: Metals | HVAC | New | unit (ton) | 839,618 | 5.8% | 12.57 | 15 | \$34,070 | 35% | 0.74 |
| FE-Penn Power | 135-240k min 12 EER Air Conditioner | Mfg: Metals | HVAC | ROB | unit (ton) | 839,618 | 5.8% | 12.57 | 15 | \$34,070 | 35% | 0.74 |
| FE-Penn Power | 240k-760k min 11 EER Air Conditioner | Mfg: Metals | HVAC | Early | unit (ton) | 839,618 | 5.2% | 11.35 | 15 | \$266,634 | 35% | 0.09 |
| FE-Penn Power | 240k-760k min 11 EER Air Conditioner | Mfg: Metals | HVAC | New | unit (ton) | 839,618 | 5.3% | 11.64 | 15 | \$28,566 | 35% | 0.81 |
| FE-Penn Power | 240k-760k min 11 EER Air Conditioner | Mfg: Metals | HVAC | ROB | unit (ton) | 839,618 | 5.3% | 11.64 | 15 | \$28,566 | 35% | 0.81 |
| FE-Penn Power | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Metals | HVAC | Early | unit (ton) | 839,618 | 9.7% | 21.14 | 15 | \$295,442 | 35% | 0.16 |
| FE-Penn Power | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Metals | HVAC | New | unit (ton) | 839,618 | 3.8% | 8.38 | 15 | \$42,152 | 35% | 0.42 |
| FE-Penn Power | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Metals | HVAC | ROB | unit (ton) | 839,618 | 3.8% | 8.38 | 15 | \$42,152 | 35% | 0.42 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Mfg: Metals | HVAC | Existing | building | 839,618 | 5.9% | 12.47 | 15 | \$2,543,910 | 71% | 0.01 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|-------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Mfg: Metals | HVAC | New | building | 839,618 | 3.7% | 7.82 | 15 | \$2,418,058 | 94% | 0.01 |
| FE-Penn Power | Chiller Tuneup/Diagnostics | Mfg: Metals | HVAC | Existing | building | 839,618 | 8.0% | 24.63 | 10 | \$2,143,921 | 59% | 0.02 |
| FE-Penn Power | Chiller Tuneup/Diagnostics | Mfg: Metals | HVAC | New | building | 839,618 | 8.0% | 24.67 | 10 | \$2,143,921 | 59% | 0.02 |
| FE-Penn Power | Cooling Tower Optimization | Mfg: Metals | HVAC | Existing | building | 839,618 | 20% | 60.10 | 10 | \$5,149 | 69% | 4.73 |
| FE-Penn Power | Duct Insulation, Add R8 | Mfg: Metals | HVAC | Existing | building | 839,618 | 1.5% | 2.69 | 15 | \$6,670 | 18% | 0.94 |
| FE-Penn Power | Duct Insulation, Add R8 | Mfg: Metals | HVAC | New | building | 839,618 | 1.5% | 2.69 | 15 | \$6,670 | 9% | 0.94 |
| FE-Penn Power | Ductless Heat Pump | Mfg: Metals | HVAC | Early | heat pump | 839,618 | 0.8% | 1.56 | 15 | \$66,380 | 83% | 0.06 |
| FE-Penn Power | Ductless Heat Pump | Mfg: Metals | HVAC | New | heat pump | 839,618 | 0.4% | 0.82 | 15 | \$19,277 | 83% | 0.10 |
| FE-Penn Power | Ductless Heat Pump | Mfg: Metals | HVAC | ROB | heat pump | 839,618 | 0.4% | 0.82 | 15 | \$19,277 | 83% | 0.10 |
| FE-Penn Power | DX Coil Cleaning | Mfg: Metals | HVAC | Existing | building | 839,618 | 13% | 38.52 | 1 | \$8,048 | 73% | 0.50 |
| FE-Penn Power | DX Coil Cleaning | Mfg: Metals | HVAC | New | building | 839,618 | 13% | 38.51 | 1 | \$8,048 | 73% | 0.50 |
| FE-Penn Power | Efficient Unit Heating System | Mfg: Metals | HVAC | Early | heater | 839,618 | 6.9% | 0.48 | 15 | \$45,327 | 83% | 0.52 |
| FE-Penn Power | Efficient Unit Heating System | Mfg: Metals | HVAC | New | heater | 839,618 | 4.0% | 0.28 | 15 | \$30,918 | 83% | 0.44 |
| FE-Penn Power | Efficient Unit Heating System | Mfg: Metals | HVAC | ROB | heater | 839,618 | 4.0% | 0.28 | 15 | \$30,918 | 83% | 0.44 |
| FE-Penn Power | Ground Source Heat Pump (Closed Loop) | Mfg: Metals | HVAC | Early | heat pump | 839,618 | 1.3% | 2.44 | 15 | \$137,832 | 19% | 0.04 |
| FE-Penn Power | Ground Source Heat Pump (Closed Loop) | Mfg: Metals | HVAC | New | heat pump | 839,618 | 1.0% | 1.92 | 15 | \$54,421 | 19% | 0.09 |
| FE-Penn Power | Ground Source Heat Pump (Closed Loop) | Mfg: Metals | HVAC | ROB | heat pump | 839,618 | 1.0% | 1.92 | 15 | \$54,421 | 19% | 0.09 |
| FE-Penn Power | Ground Source Heat Pump (Open Loop) | Mfg: Metals | HVAC | Early | heat pump | 839,618 | 1.3% | 2.44 | 15 | \$88,275 | 19% | 0.07 |
| FE-Penn Power | Ground Source Heat Pump (Open Loop) | Mfg: Metals | HVAC | New | heat pump | 839,618 | 1.0% | 1.92 | 15 | \$1,871 | 19% | 1.92 |
| FE-Penn Power | Ground Source Heat Pump (Open Loop) | Mfg: Metals | HVAC | ROB | heat pump | 839,618 | 1.0% | 1.92 | 15 | \$1,871 | 19% | 1.92 |
| FE-Penn Power | HE Air Cooled Chiller, 100 Tons | Mfg: Metals | HVAC | Early | unit (ton) | 839,618 | 1.5% | 2.76 | 15 | \$976,698 | 89% | 0.01 |
| FE-Penn Power | HE Air Cooled Chiller, 100 Tons | Mfg: Metals | HVAC | New | unit (ton) | 839,618 | 0.4% | 0.78 | 15 | \$142,287 | 89% | 0.01 |
| FE-Penn Power | HE Air Cooled Chiller, 100 Tons | Mfg: Metals | HVAC | ROB | unit (ton) | 839,618 | 0.4% | 0.78 | 15 | \$142,287 | 89% | 0.01 |
| FE-Penn Power | HE Air Cooled Chiller, 150 Tons | Mfg: Metals | HVAC | Early | unit (ton) | 839,618 | 1.4% | 2.72 | 15 | \$843,649 | 89% | 0.01 |
| FE-Penn Power | HE Air Cooled Chiller, 150 Tons | Mfg: Metals | HVAC | New | unit (ton) | 839,618 | 0.3% | 0.56 | 15 | \$69,877 | 89% | 0.02 |
| FE-Penn Power | HE Air Cooled Chiller, 150 Tons | Mfg: Metals | HVAC | ROB | unit (ton) | 839,618 | 0.3% | 0.56 | 15 | \$69,877 | 89% | 0.02 |
| FE-Penn Power | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Metals | HVAC | Early | heat pump | 839,618 | 1.4% | 2.58 | 12 | \$35,980 | 81% | 0.15 |
| FE-Penn Power | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Metals | HVAC | Early | heat pump | 839,618 | 1.1% | 2.12 | 12 | \$26,287 | 81% | 0.17 |
| FE-Penn Power | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Metals | HVAC | New | heat pump | 839,618 | 1.0% | 1.92 | 12 | \$16,064 | 81% | 0.24 |
| FE-Penn Power | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Metals | HVAC | New | heat pump | 839,618 | 0.8% | 1.43 | 12 | \$5,615 | 81% | 0.50 |
| FE-Penn Power | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Metals | HVAC | ROB | heat pump | 839,618 | 1.0% | 1.92 | 12 | \$16,064 | 81% | 0.24 |
| FE-Penn Power | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Metals | HVAC | ROB | heat pump | 839,618 | 0.8% | 1.43 | 12 | \$5,615 | 81% | 0.50 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Metals | HVAC | Early | unit (ton) | 839,618 | 1.6% | 3.00 | 15 | \$77,496 | 89% | 0.09 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Metals | HVAC | New | unit (ton) | 839,618 | 0.9% | 1.73 | 15 | \$25,775 | 89% | 0.16 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Metals | HVAC | ROB | unit (ton) | 839,618 | 0.9% | 1.73 | 15 | \$25,775 | 89% | 0.16 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Metals | HVAC | Early | unit (ton) | 839,618 | 1.4% | 2.65 | 15 | \$75,686 | 89% | 0.09 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Metals | HVAC | New | unit (ton) | 839,618 | 1.0% | 1.86 | 15 | \$14,780 | 89% | 0.30 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Metals | HVAC | ROB | unit (ton) | 839,618 | 1.4% | 2.65 | 15 | \$13,577 | 89% | 0.46 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Metals | HVAC | Early | unit (ton) | 839,618 | 1.4% | 2.62 | 15 | \$89,579 | 89% | 0.07 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Metals | HVAC | New | unit (ton) | 839,618 | 0.9% | 1.68 | 15 | \$37,715 | 89% | 0.11 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Metals | HVAC | ROB | unit (ton) | 839,618 | 1.4% | 2.62 | 15 | \$34,135 | 89% | 0.19 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Metals | HVAC | Early | unit (ton) | 839,618 | 1.4% | 2.62 | 15 | \$86,288 | 89% | 0.07 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Metals | HVAC | New | unit (ton) | 839,618 | 0.9% | 1.68 | 15 | \$32,784 | 89% | 0.12 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Metals | HVAC | ROB | unit (ton) | 839,618 | 1.4% | 2.62 | 15 | \$29,671 | 89% | 0.21 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Metals | HVAC | Early | unit (ton) | 839,618 | 1.8% | 3.40 | 15 | \$92,977 | 89% | 0.09 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Metals | HVAC | New | unit (ton) | 839,618 | 0.5% | 1.04 | 15 | \$57,573 | 89% | 0.04 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Metals | HVAC | ROB | unit (ton) | 839,618 | 1.8% | 3.40 | 15 | \$44,705 | 89% | 0.18 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Metals | HVAC | Early | unit (ton) | 839,618 | 2.1% | 4.04 | 15 | \$85,519 | 89% | 0.12 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Metals | HVAC | New | unit (ton) | 839,618 | 0.8% | 1.46 | 15 | \$34,316 | 89% | 0.10 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Metals | HVAC | ROB | unit (ton) | 839,618 | 0.8% | 1.46 | 15 | \$34,316 | 89% | 0.10 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|-------------|----------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Metals | HVAC | Early | unit (ton) | 839,618 | 2.4% | 4.54 | 15 | \$72,481 | 89% | 0.15 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Metals | HVAC | New | unit (ton) | 839,618 | 0.9% | 1.70 | 15 | \$18,238 | 89% | 0.22 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Metals | HVAC | ROB | unit (ton) | 839,618 | 2.4% | 4.54 | 15 | \$13,004 | 89% | 0.78 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Metals | HVAC | Early | unit (ton) | 839,618 | 1.8% | 3.43 | 15 | \$71,751 | 89% | 0.12 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Metals | HVAC | New | unit (ton) | 839,618 | 0.7% | 1.29 | 15 | \$20,092 | 89% | 0.16 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Metals | HVAC | ROB | unit (ton) | 839,618 | 1.8% | 3.43 | 15 | \$15,918 | 89% | 0.50 |
| FE-Penn Power | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Metals | HVAC | Existing | building | 839,618 | 2.9% | 4.94 | 5 | \$8,908 | 55% | 0.56 |
| FE-Penn Power | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Metals | HVAC | New | building | 839,618 | 0.6% | 1.95 | 5 | \$5,345 | 51% | 0.27 |
| FE-Penn Power | Improved Controls - HVAC | Mfg: Metals | HVAC | Existing | end use | 839,618 | 21% | 25.18 | 10 | \$8,827 | 76% | 3.21 |
| FE-Penn Power | Improved Controls - HVAC | Mfg: Metals | HVAC | New | end use | 839,618 | 21% | 25.18 | 10 | \$8,827 | 76% | 3.21 |
| FE-Penn Power | Outside Air Economizer | Mfg: Metals | HVAC | Existing | building | 839,618 | 1.1% | 2.35 | 10 | \$3,084,915 | 82% | 0.00 |
| FE-Penn Power | Outside Air Economizer | Mfg: Metals | HVAC | New | building | 839,618 | 1.1% | 2.35 | 10 | \$3,084,915 | 82% | 0.00 |
| FE-Penn Power | Recommissioning | Mfg: Metals | HVAC | Existing | end use | 839,618 | 5.0% | 6.03 | 10 | \$1,151 | 88% | 3.96 |
| FE-Penn Power | Recommissioning | Mfg: Metals | HVAC | New | end use | 839,618 | 5.0% | 6.03 | 10 | \$1,151 | 88% | 3.96 |
| FE-Penn Power | Room AC (with louvered sides) | Mfg: Metals | HVAC | Early | unit (ton) | 839,618 | 7.7% | 14.58 | 9 | \$65,838 | 78% | 0.36 |
| FE-Penn Power | Room AC (with louvered sides) | Mfg: Metals | HVAC | New | unit (ton) | 839,618 | 2.6% | 4.86 | 9 | \$3,605 | 78% | 1.66 |
| FE-Penn Power | Room AC (with louvered sides) | Mfg: Metals | HVAC | ROB | unit (ton) | 839,618 | 2.6% | 4.86 | 9 | \$3,605 | 78% | 1.66 |
| FE-Penn Power | Variable Refrigerant Flow Heat Pump | Mfg: Metals | HVAC | New | measure | 839,618 | 0.1% | 0.22 | 13 | \$6,181 | 43% | 0.08 |
| FE-Penn Power | Variable Refrigerant Flow Heat Pump | Mfg: Metals | HVAC | ROB | measure | 839,618 | 0.1% | 0.22 | 13 | \$6,181 | 43% | 0.08 |
| FE-Penn Power | VFD on Cooling Tower Fan | Mfg: Metals | HVAC | Early | motor | 839,618 | 21% | 52.95 | 15 | \$38,770 | 15% | 2.07 |
| FE-Penn Power | VFD on Cooling Tower Fan | Mfg: Metals | HVAC | New | motor | 839,618 | 22% | 52.95 | 15 | \$39,509 | 15% | 2.06 |
| FE-Penn Power | VFD on Cooling Tower Fan | Mfg: Metals | HVAC | ROB | motor | 839,618 | 22% | 52.95 | 15 | \$39,509 | 15% | 2.06 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Mfg: Metals | HVAC | Existing | building | 839,618 | 19% | 40.14 | 15 | \$597,275 | 26% | 0.15 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Mfg: Metals | HVAC | New | building | 839,618 | 0.6% | 1.28 | 15 | \$458,139 | 94% | 0.01 |
| FE-Penn Power | Water Source Heat Pump (4 ton) | Mfg: Metals | HVAC | Early | heat pump | 839,618 | 1.5% | 2.90 | 15 | \$142,732 | 28% | 0.05 |
| FE-Penn Power | Water Source Heat Pump (4 ton) | Mfg: Metals | HVAC | New | heat pump | 839,618 | 1.1% | 2.13 | 15 | \$69,564 | 28% | 0.07 |
| FE-Penn Power | Water Source Heat Pump (4 ton) | Mfg: Metals | HVAC | ROB | heat pump | 839,618 | 1.1% | 2.13 | 15 | \$69,564 | 28% | 0.07 |
| FE-Penn Power | Efficient Metal Halide (High Bay) | Mfg: Metals | Lighting | Early | end use | 832,065 | 42% | 0.00 | 9 | \$130,020 | 53% | 0.67 |
| FE-Penn Power | Efficient Metal Halide (High Bay) | Mfg: Metals | Lighting | New | end use | 832,065 | 41% | 0.00 | 13 | \$3,472,880 | 61% | 0.04 |
| FE-Penn Power | Efficient Metal Halide (High Bay) | Mfg: Metals | Lighting | ROB | end use | 832,065 | 41% | 0.00 | 13 | \$2,654,168 | 61% | 0.05 |
| FE-Penn Power | Induction (High Bay) | Mfg: Metals | Lighting | Early | end use | 832,065 | 94% | 0.00 | 13 | \$386,866 | 95% | 0.68 |
| FE-Penn Power | Induction (High Bay) | Mfg: Metals | Lighting | New | end use | 832,065 | 94% | 0.00 | 13 | \$362,203 | 95% | 0.72 |
| FE-Penn Power | Induction (High Bay) | Mfg: Metals | Lighting | ROB | end use | 832,065 | 94% | 0.00 | 13 | \$275,286 | 95% | 0.92 |
| FE-Penn Power | LED (High Bay) | Mfg: Metals | Lighting | Early | end use | 832,065 | 69% | 0.01 | 14 | \$455,397 | 95% | 0.47 |
| FE-Penn Power | LED (High Bay) | Mfg: Metals | Lighting | New | end use | 832,065 | 55% | 0.01 | 14 | \$505,479 | 95% | 0.35 |
| FE-Penn Power | LED (High Bay) | Mfg: Metals | Lighting | ROB | end use | 832,065 | 59% | 0.01 | 14 | \$333,052 | 95% | 0.54 |
| FE-Penn Power | Lighting Controls | Mfg: Metals | Lighting | Existing | end use | 832,065 | 20% | 0.00 | 6 | \$3,119,314 | 16% | 0.01 |
| FE-Penn Power | Lighting Controls | Mfg: Metals | Lighting | New | end use | 832,065 | 12% | 0.01 | 10 | \$4,149,707 | 11% | 0.01 |
| FE-Penn Power | Linear Fluorescent (High Bay) | Mfg: Metals | Lighting | Early | end use | 832,065 | 17% | 0.00 | 14 | \$95,206 | 98% | 0.54 |
| FE-Penn Power | Linear Fluorescent (High Bay) | Mfg: Metals | Lighting | New | end use | 832,065 | 13% | 0.00 | 14 | \$30,193 | 91% | 1.15 |
| FE-Penn Power | Linear Fluorescent (High Bay) | Mfg: Metals | Lighting | ROB | end use | 832,065 | 13% | 0.00 | 14 | \$19,330 | 91% | 1.66 |
| FE-Penn Power | Metal Halide (High Bay) | Mfg: Metals | Lighting | Early | end use | 832,065 | 62% | 0.00 | 13 | \$571,992 | 38% | 0.33 |
| FE-Penn Power | Metal Halide (High Bay) | Mfg: Metals | Lighting | New | end use | 832,065 | 73% | 0.00 | 13 | \$136,755 | 38% | 1.30 |
| FE-Penn Power | Metal Halide (High Bay) | Mfg: Metals | Lighting | ROB | end use | 832,065 | 73% | 0.00 | 13 | \$103,934 | 38% | 1.59 |
| FE-Penn Power | Screw Base CFL | Mfg: Metals | Lighting | Early | end use | 832,065 | 80% | 0.00 | 7 | \$226,054 | 17% | 0.60 |
| FE-Penn Power | Screw Base CFL | Mfg: Metals | Lighting | New | end use | 832,065 | 73% | 0.00 | 9 | \$184,741 | 18% | 0.79 |
| FE-Penn Power | Screw Base CFL | Mfg: Metals | Lighting | ROB | end use | 832,065 | 73% | 0.00 | 9 | \$154,628 | 17% | 0.91 |
| FE-Penn Power | Screw Base LED | Mfg: Metals | Lighting | Early | end use | 832,065 | 76% | 0.00 | 9 | \$138,731 | 21% | 1.06 |
| FE-Penn Power | Screw Base LED | Mfg: Metals | Lighting | New | end use | 832,065 | 77% | 0.00 | 9 | \$77,282 | 20% | 1.61 |
| FE-Penn Power | Screw Base LED | Mfg: Metals | Lighting | ROB | end use | 832,065 | 77% | 0.00 | 9 | \$61,351 | 21% | 1.85 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|--|-------------|----------|----------|---------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | T8 High Performance Linear Florescent | Mfg: Metals | Lighting | Early | end use | 832,065 | 36% | 0.00 | 14 | \$79,623 | 71% | 1.22 |
| FE-Penn Power | T8 High Performance Linear Florescent | Mfg: Metals | Lighting | New | end use | 832,065 | 26% | 0.00 | 14 | \$28,487 | 76% | 2.05 |
| FE-Penn Power | T8 High Performance Linear Florescent | Mfg: Metals | Lighting | ROB | end use | 832,065 | 26% | 0.00 | 14 | \$21,652 | 76% | 2.42 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Metals | Motors | Early | end use | 455,061 | 0.9% | 0.59 | 15 | \$6,951 | 81% | 0.28 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Metals | Motors | New | end use | 455,061 | 0.9% | 0.59 | 15 | \$6,951 | 81% | 0.28 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Metals | Motors | ROB | end use | 455,061 | 0.9% | 0.59 | 15 | \$6,951 | 81% | 0.28 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Metals | Motors | Early | end use | 455,061 | 0.7% | 0.48 | 15 | \$4,222 | 73% | 0.37 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Metals | Motors | New | end use | 455,061 | 0.8% | 0.48 | 15 | \$4,222 | 73% | 0.37 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Metals | Motors | ROB | end use | 455,061 | 0.8% | 0.48 | 15 | \$4,222 | 73% | 0.37 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Metals | Motors | Early | end use | 455,061 | 0.4% | 0.29 | 15 | \$1,618 | 81% | 0.56 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Metals | Motors | New | end use | 455,061 | 0.5% | 0.29 | 15 | \$1,618 | 81% | 0.57 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Metals | Motors | ROB | end use | 455,061 | 0.5% | 0.29 | 15 | \$1,618 | 81% | 0.56 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Metals | Motors | Early | end use | 455,061 | 0.4% | 0.25 | 15 | \$534 | 73% | 1.33 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Metals | Motors | New | end use | 455,061 | 0.4% | 0.25 | 15 | \$534 | 73% | 1.36 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Metals | Motors | ROB | end use | 455,061 | 0.4% | 0.25 | 15 | \$534 | 73% | 1.36 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Metals | Motors | Early | end use | 455,061 | 0.9% | 0.59 | 15 | \$800 | 47% | 1.85 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Metals | Motors | New | end use | 455,061 | 0.9% | 0.59 | 15 | \$800 | 47% | 1.86 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Metals | Motors | ROB | end use | 455,061 | 0.9% | 0.59 | 15 | \$800 | 47% | 1.85 |
| FE-Penn Power | Facility Energy Management | Mfg: Metals | Motors | Existing | end use | 455,061 | 1.8% | 1.20 | 2 | \$175 | 77% | 1.09 |
| FE-Penn Power | Facility Energy Management | Mfg: Metals | Motors | New | end use | 455,061 | 1.9% | 1.20 | 2 | \$175 | 77% | 1.09 |
| FE-Penn Power | HE Motors | Mfg: Metals | Motors | Early | end use | 455,061 | 2.0% | 1.33 | 15 | \$2,709 | 38% | 1.34 |
| FE-Penn Power | HE Motors | Mfg: Metals | Motors | New | end use | 455,061 | 2.0% | 1.33 | 15 | \$2,709 | 38% | 1.34 |
| FE-Penn Power | HE Motors | Mfg: Metals | Motors | ROB | end use | 455,061 | 2.0% | 1.33 | 15 | \$2,709 | 38% | 1.34 |
| FE-Penn Power | High-Efficiency Ventilation System | Mfg: Metals | Motors | Early | end use | 455,061 | 5.7% | 3.68 | 10 | \$28,438 | 73% | 0.31 |
| FE-Penn Power | High-Efficiency Ventilation System | Mfg: Metals | Motors | New | end use | 455,061 | 5.7% | 3.68 | 10 | \$28,438 | 73% | 0.31 |
| FE-Penn Power | High-Efficiency Ventilation System | Mfg: Metals | Motors | ROB | end use | 455,061 | 5.7% | 3.68 | 10 | \$28,438 | 73% | 0.31 |
| FE-Penn Power | Improved Controls - Motors | Mfg: Metals | Motors | Existing | end use | 455,061 | 4.0% | 2.57 | 10 | \$1,978 | 73% | 2.03 |
| FE-Penn Power | Improved Controls - Motors | Mfg: Metals | Motors | New | end use | 455,061 | 4.0% | 2.57 | 10 | \$1,978 | 73% | 2.03 |
| FE-Penn Power | Motor Management Plan | Mfg: Metals | Motors | Existing | end use | 455,061 | 2.9% | 1.88 | 10 | \$928 | 73% | 2.60 |
| FE-Penn Power | Motor Management Plan | Mfg: Metals | Motors | New | end use | 455,061 | 2.9% | 1.88 | 10 | \$928 | 73% | 2.60 |
| FE-Penn Power | Motors Other | Mfg: Metals | Motors | Existing | end use | 455,061 | 1.1% | 0.71 | 15 | \$91 | 83% | 5.48 |
| FE-Penn Power | Motors Other | Mfg: Metals | Motors | New | end use | 455,061 | 1.1% | 0.71 | 15 | \$91 | 83% | 5.48 |
| FE-Penn Power | Motors: Rewind 101-200 HP | Mfg: Metals | Motors | Existing | end use | 455,061 | 0.6% | 0.36 | 10 | \$575 | 27% | 1.24 |
| FE-Penn Power | Motors: Rewind 101-200 HP | Mfg: Metals | Motors | New | end use | 455,061 | 0.6% | 0.36 | 10 | \$575 | 27% | 1.24 |
| FE-Penn Power | Motors: Rewind 201-500 HP | Mfg: Metals | Motors | Existing | end use | 455,061 | 0.6% | 0.36 | 8 | \$361 | 27% | 1.48 |
| FE-Penn Power | Motors: Rewind 201-500 HP | Mfg: Metals | Motors | New | end use | 455,061 | 0.6% | 0.36 | 8 | \$361 | 27% | 1.48 |
| FE-Penn Power | Motors: Rewind 20-50 HP | Mfg: Metals | Motors | Existing | end use | 455,061 | 1.0% | 0.67 | 11 | \$1,689 | 42% | 0.92 |
| FE-Penn Power | Motors: Rewind 20-50 HP | Mfg: Metals | Motors | New | end use | 455,061 | 1.0% | 0.67 | 11 | \$1,689 | 42% | 0.92 |
| FE-Penn Power | Motors: Rewind 500+ HP | Mfg: Metals | Motors | Existing | end use | 455,061 | 0.6% | 0.36 | 8 | \$258 | 11% | 1.85 |
| FE-Penn Power | Motors: Rewind 500+ HP | Mfg: Metals | Motors | New | end use | 455,061 | 0.6% | 0.36 | 8 | \$258 | 11% | 1.84 |
| FE-Penn Power | Motors: Rewind 51-100 HP | Mfg: Metals | Motors | Existing | end use | 455,061 | 0.6% | 0.39 | 9 | \$834 | 42% | 0.92 |
| FE-Penn Power | Motors: Rewind 51-100 HP | Mfg: Metals | Motors | New | end use | 455,061 | 0.6% | 0.39 | 9 | \$834 | 42% | 0.91 |
| FE-Penn Power | Switch from Belt drive to Direct Drive | Mfg: Metals | Motors | Early | end use | 455,061 | 7.5% | 4.88 | 12 | \$7,301 | 30% | 1.45 |
| FE-Penn Power | Switch from Belt drive to Direct Drive | Mfg: Metals | Motors | New | end use | 455,061 | 7.5% | 4.88 | 12 | \$7,301 | 30% | 1.45 |
| FE-Penn Power | Switch from Belt drive to Direct Drive | Mfg: Metals | Motors | ROB | end use | 455,061 | 7.5% | 4.88 | 12 | \$7,301 | 30% | 1.45 |
| FE-Penn Power | Synchronous Belts | Mfg: Metals | Motors | Early | end use | 455,061 | 1.2% | 0.76 | 10 | \$671 | 30% | 1.86 |
| FE-Penn Power | Synchronous Belts | Mfg: Metals | Motors | New | end use | 455,061 | 1.2% | 0.76 | 10 | \$671 | 30% | 1.86 |
| FE-Penn Power | Synchronous Belts | Mfg: Metals | Motors | ROB | end use | 455,061 | 1.2% | 0.76 | 10 | \$671 | 30% | 1.86 |
| FE-Penn Power | Bldg Improvements | Mfg: Metals | Other | Existing | end use | 293,466 | 16% | 5.65 | 15 | \$6,399 | 72% | 2.31 |
| FE-Penn Power | Bldg Improvements | Mfg: Metals | Other | New | end use | 293,466 | 16% | 5.65 | 15 | \$6,399 | 72% | 2.31 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|-------------------------------------|-------------|------------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Energy Project Management | Mfg: Metals | Other | Existing | end use | 293,466 | 29% | 10.13 | 11 | \$10,475 | 63% | 1.95 |
| FE-Penn Power | Energy Project Management | Mfg: Metals | Other | New | end use | 293,466 | 29% | 10.13 | 11 | \$10,475 | 63% | 1.95 |
| FE-Penn Power | Facility Energy Management | Mfg: Metals | Other | Existing | end use | 293,466 | 1.9% | 0.64 | 2 | \$113 | 76% | 1.06 |
| FE-Penn Power | Facility Energy Management | Mfg: Metals | Other | New | end use | 293,466 | 1.9% | 0.64 | 2 | \$113 | 76% | 1.06 |
| FE-Penn Power | Integrated Plant Energy Management | Mfg: Metals | Other | Existing | end use | 293,466 | 50% | 17.47 | 11 | \$28,926 | 48% | 1.41 |
| FE-Penn Power | Integrated Plant Energy Management | Mfg: Metals | Other | New | end use | 293,466 | 50% | 17.47 | 11 | \$28,926 | 48% | 1.41 |
| FE-Penn Power | Plant Energy Management | Mfg: Metals | Other | Existing | end use | 293,466 | 12% | 4.19 | 10 | \$737 | 55% | 3.90 |
| FE-Penn Power | Plant Energy Management | Mfg: Metals | Other | New | end use | 293,466 | 12% | 4.19 | 10 | \$737 | 55% | 3.90 |
| FE-Penn Power | Transformers | Mfg: Metals | Other | Early | end use | 293,466 | 1.6% | 0.56 | 15 | \$938 | 34% | 1.72 |
| FE-Penn Power | Transformers | Mfg: Metals | Other | New | end use | 293,466 | 1.6% | 0.56 | 15 | \$938 | 34% | 1.71 |
| FE-Penn Power | Transformers | Mfg: Metals | Other | ROB | end use | 293,466 | 1.6% | 0.56 | 15 | \$938 | 34% | 1.71 |
| FE-Penn Power | Air Compressor Demand Reduction | Mfg: Metals | Process Air Compressor | Existing | end use | 42,556 | 26% | 1.42 | 10 | \$638 | 40% | 2.80 |
| FE-Penn Power | Air Compressor Demand Reduction | Mfg: Metals | Process Air Compressor | New | end use | 42,556 | 26% | 1.42 | 10 | \$638 | 40% | 2.80 |
| FE-Penn Power | Air Compressor Equipment | Mfg: Metals | Process Air Compressor | Early | end use | 42,556 | 39% | 2.15 | 10 | \$771 | 56% | 3.08 |
| FE-Penn Power | Air Compressor Equipment | Mfg: Metals | Process Air Compressor | New | end use | 42,556 | 39% | 2.15 | 10 | \$771 | 56% | 3.08 |
| FE-Penn Power | Air Compressor Equipment | Mfg: Metals | Process Air Compressor | ROB | end use | 42,556 | 39% | 2.15 | 10 | \$771 | 56% | 3.08 |
| FE-Penn Power | Air Compressor Optimization | Mfg: Metals | Process Air Compressor | Existing | end use | 42,556 | 39% | 2.18 | 10 | \$1,855 | 42% | 1.99 |
| FE-Penn Power | Air Compressor Optimization | Mfg: Metals | Process Air Compressor | New | end use | 42,556 | 39% | 2.18 | 10 | \$1,855 | 42% | 1.99 |
| FE-Penn Power | Facility Energy Management | Mfg: Metals | Process Air Compressor | Existing | end use | 42,556 | 1.9% | 0.10 | 2 | \$16 | 50% | 1.08 |
| FE-Penn Power | Facility Energy Management | Mfg: Metals | Process Air Compressor | New | end use | 42,556 | 1.9% | 0.10 | 2 | \$16 | 50% | 1.08 |
| FE-Penn Power | HE Compressor motors | Mfg: Metals | Process Air Compressor | Early | end use | 42,556 | 1.1% | 0.06 | 15 | \$160 | 56% | 1.17 |
| FE-Penn Power | HE Compressor motors | Mfg: Metals | Process Air Compressor | New | end use | 42,556 | 1.1% | 0.06 | 15 | \$160 | 56% | 1.16 |
| FE-Penn Power | HE Compressor motors | Mfg: Metals | Process Air Compressor | ROB | end use | 42,556 | 1.1% | 0.06 | 15 | \$160 | 56% | 1.16 |
| FE-Penn Power | Improved Controls - Air Compressor | Mfg: Metals | Process Air Compressor | Existing | end use | 42,556 | 41% | 2.25 | 10 | \$760 | 19% | 3.15 |
| FE-Penn Power | Improved Controls - Air Compressor | Mfg: Metals | Process Air Compressor | New | end use | 42,556 | 41% | 2.25 | 10 | \$760 | 19% | 3.15 |
| FE-Penn Power | Low Pressure-drop Filters | Mfg: Metals | Process Air Compressor | Existing | end use | 42,556 | 1.8% | 0.10 | 10 | \$483 | 46% | 0.52 |
| FE-Penn Power | Low Pressure-drop Filters | Mfg: Metals | Process Air Compressor | New | end use | 42,556 | 1.9% | 0.10 | 10 | \$483 | 46% | 0.53 |
| FE-Penn Power | Outside Air Intake | Mfg: Metals | Process Air Compressor | Existing | end use | 42,556 | 1.4% | 0.08 | 10 | \$280 | 37% | 0.68 |
| FE-Penn Power | Outside Air Intake | Mfg: Metals | Process Air Compressor | New | end use | 42,556 | 1.4% | 0.08 | 10 | \$280 | 37% | 0.68 |
| FE-Penn Power | Receiver Capacity Addition | Mfg: Metals | Process Air Compressor | Existing | end use | 42,556 | 5.9% | 0.33 | 10 | \$792 | 28% | 0.94 |
| FE-Penn Power | Receiver Capacity Addition | Mfg: Metals | Process Air Compressor | New | end use | 42,556 | 6.0% | 0.33 | 10 | \$792 | 28% | 0.94 |
| FE-Penn Power | Refrigerated Cycling Dryers | Mfg: Metals | Process Air Compressor | Early | end use | 42,556 | 1.7% | 0.09 | 10 | \$98 | 16% | 1.73 |
| FE-Penn Power | Refrigerated Cycling Dryers | Mfg: Metals | Process Air Compressor | New | end use | 42,556 | 1.7% | 0.09 | 10 | \$98 | 16% | 1.73 |
| FE-Penn Power | Refrigerated Cycling Dryers | Mfg: Metals | Process Air Compressor | ROB | end use | 42,556 | 1.7% | 0.09 | 10 | \$98 | 16% | 1.73 |
| FE-Penn Power | VFD Controlled Compressor | Mfg: Metals | Process Air Compressor | Early | end use | 42,556 | 24% | 1.31 | 10 | \$4,189 | 22% | 0.74 |
| FE-Penn Power | VFD Controlled Compressor | Mfg: Metals | Process Air Compressor | New | end use | 42,556 | 24% | 1.31 | 10 | \$4,189 | 22% | 0.74 |
| FE-Penn Power | VFD Controlled Compressor | Mfg: Metals | Process Air Compressor | ROB | end use | 42,556 | 24% | 1.31 | 10 | \$4,189 | 22% | 0.74 |
| FE-Penn Power | Zero Loss Condensate Drain | Mfg: Metals | Process Air Compressor | Early | end use | 42,556 | 1.9% | 0.10 | 10 | \$244 | 28% | 0.95 |
| FE-Penn Power | Zero Loss Condensate Drain | Mfg: Metals | Process Air Compressor | New | end use | 42,556 | 1.8% | 0.10 | 10 | \$244 | 28% | 0.95 |
| FE-Penn Power | Zero Loss Condensate Drain | Mfg: Metals | Process Air Compressor | ROB | end use | 42,556 | 1.8% | 0.10 | 10 | \$244 | 28% | 0.95 |
| FE-Penn Power | Cooling Tower Optimization | Mfg: Metals | Process Cooling | Existing | building | 139,451 | 20% | 11.57 | 10 | \$855 | 15% | 4.68 |
| FE-Penn Power | Equipment: Chillers | Mfg: Metals | Process Cooling | Early | end use | 139,451 | 18% | 5.20 | 15 | \$6,545 | 39% | 1.53 |
| FE-Penn Power | Equipment: Chillers | Mfg: Metals | Process Cooling | New | end use | 139,451 | 18% | 5.20 | 15 | \$6,545 | 39% | 1.53 |
| FE-Penn Power | Equipment: Chillers | Mfg: Metals | Process Cooling | ROB | end use | 139,451 | 18% | 5.20 | 15 | \$6,545 | 39% | 1.53 |
| FE-Penn Power | Facility Energy Management | Mfg: Metals | Process Cooling | Existing | end use | 139,451 | 1.9% | 0.54 | 2 | \$54 | 50% | 1.15 |
| FE-Penn Power | Facility Energy Management | Mfg: Metals | Process Cooling | New | end use | 139,451 | 1.9% | 0.54 | 2 | \$54 | 50% | 1.15 |
| FE-Penn Power | Improved Controls - Process Cooling | Mfg: Metals | Process Cooling | Existing | end use | 139,451 | 6.0% | 1.74 | 10 | \$7,363 | 47% | 0.41 |
| FE-Penn Power | Improved Controls - Process Cooling | Mfg: Metals | Process Cooling | New | end use | 139,451 | 6.0% | 1.74 | 10 | \$7,363 | 47% | 0.40 |
| FE-Penn Power | VFD on Cooling Tower Fan | Mfg: Metals | Process Cooling | Early | motor | 139,451 | 21% | 8.79 | 15 | \$6,439 | 20% | 1.93 |
| FE-Penn Power | VFD on Cooling Tower Fan | Mfg: Metals | Process Cooling | New | motor | 139,451 | 22% | 8.79 | 15 | \$6,562 | 20% | 1.92 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---------------------------------------|-------------|-----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | VFD on Cooling Tower Fan | Mfg: Metals | Process Cooling | ROB | motor | 139,451 | 22% | 8.79 | 15 | \$6,562 | 20% | 1.92 |
| FE-Penn Power | Improved Controls - Process Heating | Mfg: Metals | Process Heating | Existing | end use | 5,340,511 | 17% | 125.51 | 10 | \$61,359 | 89% | 2.58 |
| FE-Penn Power | Improved Controls - Process Heating | Mfg: Metals | Process Heating | New | end use | 5,340,511 | 17% | 125.51 | 10 | \$61,359 | 89% | 2.58 |
| FE-Penn Power | Metal: New Arc Furnace | Mfg: Metals | Process Heating | Early | end use | 5,340,511 | 45% | 328.32 | 10 | \$221,884 | 2% | 2.12 |
| FE-Penn Power | Metal: New Arc Furnace | Mfg: Metals | Process Heating | New | end use | 5,340,511 | 45% | 328.32 | 10 | \$221,884 | 2% | 2.12 |
| FE-Penn Power | Metal: New Arc Furnace | Mfg: Metals | Process Heating | ROB | end use | 5,340,511 | 45% | 328.32 | 10 | \$221,884 | 2% | 2.12 |
| FE-Penn Power | Process Heat O&M | Mfg: Metals | Process Heating | Existing | end use | 5,340,511 | 16% | 118.69 | 2 | \$37,083 | 89% | 0.85 |
| FE-Penn Power | Process Heat O&M | Mfg: Metals | Process Heating | New | end use | 5,340,511 | 16% | 118.69 | 2 | \$37,083 | 89% | 0.85 |
| FE-Penn Power | Facility Energy Management | Mfg: Metals | Process Other | Existing | end use | 2,563,098 | 1.9% | 6.62 | 2 | \$988 | 73% | 1.06 |
| FE-Penn Power | Facility Energy Management | Mfg: Metals | Process Other | New | end use | 2,563,098 | 1.9% | 6.62 | 2 | \$988 | 73% | 1.06 |
| FE-Penn Power | Adjustable speed drive on compressors | Mfg: Metals | Process Refrigeration | Early | end use | 71,635 | 12% | 1.23 | 10 | \$1,325 | 30% | 1.61 |
| FE-Penn Power | Adjustable speed drive on compressors | Mfg: Metals | Process Refrigeration | New | end use | 71,635 | 12% | 1.23 | 10 | \$1,325 | 30% | 1.61 |
| FE-Penn Power | Adjustable speed drive on compressors | Mfg: Metals | Process Refrigeration | ROB | end use | 71,635 | 12% | 1.23 | 10 | \$1,325 | 30% | 1.61 |
| FE-Penn Power | Cooling Tower Optimization | Mfg: Metals | Process Refrigeration | Existing | building | 71,635 | 20% | 5.94 | 10 | \$439 | 15% | 4.68 |
| FE-Penn Power | Optimization of operating parameters | Mfg: Metals | Process Refrigeration | Existing | end use | 71,635 | 13% | 1.37 | 3 | \$578 | 27% | 1.07 |
| FE-Penn Power | Optimization of operating parameters | Mfg: Metals | Process Refrigeration | New | end use | 71,635 | 13% | 1.37 | 3 | \$578 | 27% | 1.07 |
| FE-Penn Power | Synchronous Belts | Mfg: Metals | Process Refrigeration | Early | end use | 71,635 | 1.2% | 0.12 | 10 | \$106 | 30% | 1.87 |
| FE-Penn Power | Synchronous Belts | Mfg: Metals | Process Refrigeration | New | end use | 71,635 | 1.2% | 0.12 | 10 | \$106 | 30% | 1.87 |
| FE-Penn Power | Synchronous Belts | Mfg: Metals | Process Refrigeration | ROB | end use | 71,635 | 1.2% | 0.12 | 10 | \$106 | 30% | 1.87 |
| FE-Penn Power | VFD on Cooling Tower Fan | Mfg: Metals | Process Refrigeration | Early | motor | 71,635 | 21% | 4.52 | 15 | \$3,308 | 20% | 1.93 |
| FE-Penn Power | VFD on Cooling Tower Fan | Mfg: Metals | Process Refrigeration | New | motor | 71,635 | 22% | 4.52 | 15 | \$3,371 | 20% | 1.92 |
| FE-Penn Power | VFD on Cooling Tower Fan | Mfg: Metals | Process Refrigeration | ROB | motor | 71,635 | 22% | 4.52 | 15 | \$3,371 | 20% | 1.92 |
| FE-Penn Power | Facility Energy Management | Mfg: Metals | Pumps | Existing | end use | 2,550,866 | 1.9% | 6.11 | 2 | \$983 | 69% | 1.13 |
| FE-Penn Power | Facility Energy Management | Mfg: Metals | Pumps | New | end use | 2,550,866 | 1.9% | 6.11 | 2 | \$983 | 69% | 1.13 |
| FE-Penn Power | HE Motors | Mfg: Metals | Pumps | Early | end use | 2,550,866 | 2.0% | 6.79 | 15 | \$15,185 | 73% | 1.32 |
| FE-Penn Power | HE Motors | Mfg: Metals | Pumps | New | end use | 2,550,866 | 2.0% | 6.79 | 15 | \$15,185 | 73% | 1.32 |
| FE-Penn Power | HE Motors | Mfg: Metals | Pumps | ROB | end use | 2,550,866 | 2.0% | 6.79 | 15 | \$15,185 | 73% | 1.32 |
| FE-Penn Power | Motor rewinds | Mfg: Metals | Pumps | Existing | end use | 2,550,866 | 0.6% | 1.97 | 9 | \$3,627 | 11% | 1.14 |
| FE-Penn Power | Motor rewinds | Mfg: Metals | Pumps | New | end use | 2,550,866 | 0.6% | 1.97 | 9 | \$3,627 | 11% | 1.14 |
| FE-Penn Power | Synchronous Belts | Mfg: Metals | Pumps | Early | end use | 2,550,866 | 1.2% | 3.87 | 10 | \$3,759 | 61% | 1.83 |
| FE-Penn Power | Synchronous Belts | Mfg: Metals | Pumps | New | end use | 2,550,866 | 1.2% | 3.87 | 10 | \$3,759 | 61% | 1.83 |
| FE-Penn Power | Synchronous Belts | Mfg: Metals | Pumps | ROB | end use | 2,550,866 | 1.2% | 3.87 | 10 | \$3,759 | 61% | 1.83 |
| FE-Penn Power | Circulating Fans | Mfg: Other | Fans | Early | end use | 98,874 | 5.0% | 0.59 | 10 | \$602 | 68% | 1.94 |
| FE-Penn Power | Circulating Fans | Mfg: Other | Fans | New | end use | 98,874 | 5.0% | 0.59 | 10 | \$602 | 68% | 1.94 |
| FE-Penn Power | Circulating Fans | Mfg: Other | Fans | ROB | end use | 98,874 | 5.0% | 0.59 | 10 | \$602 | 68% | 1.94 |
| FE-Penn Power | Facility Energy Management | Mfg: Other | Fans | Existing | end use | 98,874 | 1.8% | 0.22 | 2 | \$38 | 77% | 1.11 |
| FE-Penn Power | Facility Energy Management | Mfg: Other | Fans | New | end use | 98,874 | 1.9% | 0.22 | 2 | \$38 | 77% | 1.11 |
| FE-Penn Power | Fan Equipment Upgrade | Mfg: Other | Fans | Early | end use | 98,874 | 35% | 4.12 | 10 | \$2,966 | 68% | 2.38 |
| FE-Penn Power | Fan Equipment Upgrade | Mfg: Other | Fans | New | end use | 98,874 | 35% | 4.12 | 10 | \$2,966 | 68% | 2.38 |
| FE-Penn Power | Fan Equipment Upgrade | Mfg: Other | Fans | ROB | end use | 98,874 | 35% | 4.12 | 10 | \$2,966 | 68% | 2.38 |
| FE-Penn Power | Fan System Optimization | Mfg: Other | Fans | Existing | end use | 98,874 | 7.3% | 0.86 | 10 | \$1,349 | 83% | 1.45 |
| FE-Penn Power | Fan System Optimization | Mfg: Other | Fans | New | end use | 98,874 | 7.3% | 0.86 | 10 | \$1,349 | 83% | 1.45 |
| FE-Penn Power | HE Motors | Mfg: Other | Fans | Early | end use | 98,874 | 2.0% | 0.24 | 15 | \$589 | 77% | 1.37 |
| FE-Penn Power | HE Motors | Mfg: Other | Fans | New | end use | 98,874 | 2.0% | 0.24 | 15 | \$589 | 77% | 1.37 |
| FE-Penn Power | HE Motors | Mfg: Other | Fans | ROB | end use | 98,874 | 2.0% | 0.24 | 15 | \$589 | 77% | 1.37 |
| FE-Penn Power | Improved Controls - Fans | Mfg: Other | Fans | Existing | end use | 98,874 | 7.1% | 0.84 | 10 | \$383 | 88% | 2.98 |
| FE-Penn Power | Improved Controls - Fans | Mfg: Other | Fans | New | end use | 98,874 | 7.1% | 0.84 | 10 | \$383 | 88% | 2.98 |
| FE-Penn Power | Properly Sized Fans | Mfg: Other | Fans | Early | end use | 98,874 | 13% | 1.55 | 10 | \$2,025 | 41% | 1.65 |
| FE-Penn Power | Properly Sized Fans | Mfg: Other | Fans | New | end use | 98,874 | 13% | 1.55 | 10 | \$2,025 | 41% | 1.65 |
| FE-Penn Power | Properly Sized Fans | Mfg: Other | Fans | ROB | end use | 98,874 | 13% | 1.55 | 10 | \$2,025 | 41% | 1.65 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|--|------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Synchronous Belts | Mfg: Other | Fans | Early | end use | 98,874 | 1.2% | 0.14 | 10 | \$146 | 41% | 1.89 |
| FE-Penn Power | Synchronous Belts | Mfg: Other | Fans | New | end use | 98,874 | 1.2% | 0.14 | 10 | \$146 | 41% | 1.89 |
| FE-Penn Power | Synchronous Belts | Mfg: Other | Fans | ROB | end use | 98,874 | 1.2% | 0.14 | 10 | \$146 | 41% | 1.89 |
| FE-Penn Power | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Other | HVAC | Early | unit (ton) | 199,563 | 9.2% | 4.75 | 15 | \$36,369 | 28% | 0.28 |
| FE-Penn Power | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Other | HVAC | New | unit (ton) | 199,563 | 4.1% | 2.13 | 15 | \$8,812 | 28% | 0.50 |
| FE-Penn Power | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Other | HVAC | ROB | unit (ton) | 199,563 | 4.1% | 2.13 | 15 | \$8,812 | 28% | 0.50 |
| FE-Penn Power | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Other | HVAC | Early | unit (ton) | 199,563 | 12% | 6.43 | 15 | \$42,875 | 28% | 0.32 |
| FE-Penn Power | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Other | HVAC | New | unit (ton) | 199,563 | 7.7% | 3.98 | 15 | \$18,559 | 28% | 0.45 |
| FE-Penn Power | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Other | HVAC | ROB | unit (ton) | 199,563 | 7.7% | 3.98 | 15 | \$18,559 | 28% | 0.45 |
| FE-Penn Power | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Other | HVAC | Early | unit (ton) | 199,563 | 15% | 7.89 | 15 | \$49,382 | 29% | 0.34 |
| FE-Penn Power | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Other | HVAC | New | unit (ton) | 199,563 | 11% | 5.60 | 15 | \$28,306 | 29% | 0.42 |
| FE-Penn Power | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Other | HVAC | ROB | unit (ton) | 199,563 | 11% | 5.60 | 15 | \$28,306 | 29% | 0.42 |
| FE-Penn Power | >760k min 10.2 EER Air Conditioner | Mfg: Other | HVAC | Early | unit (ton) | 199,563 | 2.1% | 1.10 | 15 | \$63,334 | 35% | 0.04 |
| FE-Penn Power | >760k min 10.2 EER Air Conditioner | Mfg: Other | HVAC | New | unit (ton) | 199,563 | 2.8% | 1.46 | 15 | \$5,724 | 35% | 0.53 |
| FE-Penn Power | >760k min 10.2 EER Air Conditioner | Mfg: Other | HVAC | ROB | unit (ton) | 199,563 | 2.8% | 1.46 | 15 | \$5,724 | 35% | 0.53 |
| FE-Penn Power | 135-240k min 12 EER Air Conditioner | Mfg: Other | HVAC | Early | unit (ton) | 199,563 | 10% | 5.42 | 15 | \$68,581 | 35% | 0.17 |
| FE-Penn Power | 135-240k min 12 EER Air Conditioner | Mfg: Other | HVAC | New | unit (ton) | 199,563 | 5.8% | 2.99 | 15 | \$8,098 | 35% | 0.74 |
| FE-Penn Power | 135-240k min 12 EER Air Conditioner | Mfg: Other | HVAC | ROB | unit (ton) | 199,563 | 5.8% | 2.99 | 15 | \$8,098 | 35% | 0.74 |
| FE-Penn Power | 240k-760k min 11 EER Air Conditioner | Mfg: Other | HVAC | Early | unit (ton) | 199,563 | 5.2% | 2.70 | 15 | \$63,374 | 35% | 0.09 |
| FE-Penn Power | 240k-760k min 11 EER Air Conditioner | Mfg: Other | HVAC | New | unit (ton) | 199,563 | 5.3% | 2.77 | 15 | \$6,790 | 35% | 0.81 |
| FE-Penn Power | 240k-760k min 11 EER Air Conditioner | Mfg: Other | HVAC | ROB | unit (ton) | 199,563 | 5.3% | 2.77 | 15 | \$6,790 | 35% | 0.81 |
| FE-Penn Power | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Other | HVAC | Early | unit (ton) | 199,563 | 9.7% | 5.02 | 15 | \$70,221 | 35% | 0.16 |
| FE-Penn Power | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Other | HVAC | New | unit (ton) | 199,563 | 3.8% | 1.99 | 15 | \$10,019 | 35% | 0.42 |
| FE-Penn Power | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Other | HVAC | ROB | unit (ton) | 199,563 | 3.8% | 1.99 | 15 | \$10,019 | 35% | 0.42 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Mfg: Other | HVAC | Existing | building | 199,563 | 5.9% | 2.96 | 15 | \$604,643 | 71% | 0.01 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Mfg: Other | HVAC | New | building | 199,563 | 3.7% | 1.86 | 15 | \$574,730 | 94% | 0.01 |
| FE-Penn Power | Chiller Tuneup/Diagnostics | Mfg: Other | HVAC | Existing | building | 199,563 | 8.0% | 5.85 | 10 | \$509,573 | 59% | 0.02 |
| FE-Penn Power | Chiller Tuneup/Diagnostics | Mfg: Other | HVAC | New | building | 199,563 | 8.0% | 5.86 | 10 | \$509,573 | 59% | 0.02 |
| FE-Penn Power | Cooling Tower Optimization | Mfg: Other | HVAC | Existing | building | 199,563 | 20% | 14.29 | 10 | \$1,224 | 69% | 4.73 |
| FE-Penn Power | Duct Insulation, Add R8 | Mfg: Other | HVAC | Existing | building | 199,563 | 1.5% | 0.64 | 15 | \$1,585 | 18% | 0.94 |
| FE-Penn Power | Duct Insulation, Add R8 | Mfg: Other | HVAC | New | building | 199,563 | 1.5% | 0.64 | 15 | \$1,585 | 9% | 0.94 |
| FE-Penn Power | Ductless Heat Pump | Mfg: Other | HVAC | Early | heat pump | 199,563 | 0.8% | 0.37 | 15 | \$15,777 | 83% | 0.06 |
| FE-Penn Power | Ductless Heat Pump | Mfg: Other | HVAC | New | heat pump | 199,563 | 0.4% | 0.20 | 15 | \$4,582 | 83% | 0.10 |
| FE-Penn Power | Ductless Heat Pump | Mfg: Other | HVAC | ROB | heat pump | 199,563 | 0.4% | 0.20 | 15 | \$4,582 | 83% | 0.10 |
| FE-Penn Power | DX Coil Cleaning | Mfg: Other | HVAC | Existing | building | 199,563 | 13% | 9.15 | 1 | \$1,913 | 73% | 0.50 |
| FE-Penn Power | DX Coil Cleaning | Mfg: Other | HVAC | New | building | 199,563 | 13% | 9.15 | 1 | \$1,913 | 73% | 0.50 |
| FE-Penn Power | Efficient Unit Heating System | Mfg: Other | HVAC | Early | heater | 199,563 | 6.9% | 0.12 | 15 | \$10,773 | 83% | 0.52 |
| FE-Penn Power | Efficient Unit Heating System | Mfg: Other | HVAC | New | heater | 199,563 | 4.0% | 0.07 | 15 | \$7,349 | 83% | 0.44 |
| FE-Penn Power | Efficient Unit Heating System | Mfg: Other | HVAC | ROB | heater | 199,563 | 4.0% | 0.07 | 15 | \$7,349 | 83% | 0.44 |
| FE-Penn Power | Ground Source Heat Pump (Closed Loop) | Mfg: Other | HVAC | Early | heat pump | 199,563 | 1.3% | 0.58 | 15 | \$32,760 | 19% | 0.04 |
| FE-Penn Power | Ground Source Heat Pump (Closed Loop) | Mfg: Other | HVAC | New | heat pump | 199,563 | 1.0% | 0.46 | 15 | \$12,935 | 19% | 0.09 |
| FE-Penn Power | Ground Source Heat Pump (Closed Loop) | Mfg: Other | HVAC | ROB | heat pump | 199,563 | 1.0% | 0.46 | 15 | \$12,935 | 19% | 0.09 |
| FE-Penn Power | Ground Source Heat Pump (Open Loop) | Mfg: Other | HVAC | Early | heat pump | 199,563 | 1.3% | 0.58 | 15 | \$20,981 | 19% | 0.07 |
| FE-Penn Power | Ground Source Heat Pump (Open Loop) | Mfg: Other | HVAC | New | heat pump | 199,563 | 1.0% | 0.46 | 15 | \$445 | 19% | 1.92 |
| FE-Penn Power | Ground Source Heat Pump (Open Loop) | Mfg: Other | HVAC | ROB | heat pump | 199,563 | 1.0% | 0.46 | 15 | \$445 | 19% | 1.92 |
| FE-Penn Power | HE Air Cooled Chiller, 100 Tons | Mfg: Other | HVAC | Early | unit (ton) | 199,563 | 1.5% | 0.66 | 15 | \$232,144 | 89% | 0.01 |
| FE-Penn Power | HE Air Cooled Chiller, 100 Tons | Mfg: Other | HVAC | New | unit (ton) | 199,563 | 0.4% | 0.19 | 15 | \$33,819 | 89% | 0.01 |
| FE-Penn Power | HE Air Cooled Chiller, 100 Tons | Mfg: Other | HVAC | ROB | unit (ton) | 199,563 | 0.4% | 0.19 | 15 | \$33,819 | 89% | 0.01 |
| FE-Penn Power | HE Air Cooled Chiller, 150 Tons | Mfg: Other | HVAC | Early | unit (ton) | 199,563 | 1.4% | 0.65 | 15 | \$200,521 | 89% | 0.01 |
| FE-Penn Power | HE Air Cooled Chiller, 150 Tons | Mfg: Other | HVAC | New | unit (ton) | 199,563 | 0.3% | 0.13 | 15 | \$16,608 | 89% | 0.02 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | HE Air Cooled Chiller, 150 Tons | Mfg: Other | HVAC | ROB | unit (ton) | 199,563 | 0.3% | 0.13 | 15 | \$16,608 | 89% | 0.02 |
| FE-Penn Power | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Other | HVAC | Early | heat pump | 199,563 | 1.4% | 0.61 | 12 | \$8,552 | 81% | 0.15 |
| FE-Penn Power | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Other | HVAC | Early | heat pump | 199,563 | 1.1% | 0.50 | 12 | \$6,248 | 81% | 0.17 |
| FE-Penn Power | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Other | HVAC | New | heat pump | 199,563 | 1.0% | 0.46 | 12 | \$3,818 | 81% | 0.24 |
| FE-Penn Power | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Other | HVAC | New | heat pump | 199,563 | 0.8% | 0.34 | 12 | \$1,335 | 81% | 0.50 |
| FE-Penn Power | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Other | HVAC | ROB | heat pump | 199,563 | 1.0% | 0.46 | 12 | \$3,818 | 81% | 0.24 |
| FE-Penn Power | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Other | HVAC | ROB | heat pump | 199,563 | 0.8% | 0.34 | 12 | \$1,335 | 81% | 0.50 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Other | HVAC | Early | unit (ton) | 199,563 | 1.6% | 0.71 | 15 | \$18,419 | 89% | 0.09 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Other | HVAC | New | unit (ton) | 199,563 | 0.9% | 0.41 | 15 | \$6,126 | 89% | 0.16 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Other | HVAC | ROB | unit (ton) | 199,563 | 0.9% | 0.41 | 15 | \$6,126 | 89% | 0.16 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Other | HVAC | Early | unit (ton) | 199,563 | 1.4% | 0.63 | 15 | \$17,989 | 89% | 0.09 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Other | HVAC | New | unit (ton) | 199,563 | 1.0% | 0.44 | 15 | \$3,513 | 89% | 0.30 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Other | HVAC | ROB | unit (ton) | 199,563 | 1.4% | 0.63 | 15 | \$3,227 | 89% | 0.46 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Other | HVAC | Early | unit (ton) | 199,563 | 1.4% | 0.62 | 15 | \$21,291 | 89% | 0.07 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Other | HVAC | New | unit (ton) | 199,563 | 0.9% | 0.40 | 15 | \$8,964 | 89% | 0.11 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Other | HVAC | ROB | unit (ton) | 199,563 | 1.4% | 0.62 | 15 | \$8,113 | 89% | 0.19 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Other | HVAC | Early | unit (ton) | 199,563 | 1.4% | 0.62 | 15 | \$20,509 | 89% | 0.07 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Other | HVAC | New | unit (ton) | 199,563 | 0.9% | 0.40 | 15 | \$7,792 | 89% | 0.12 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Other | HVAC | ROB | unit (ton) | 199,563 | 1.4% | 0.62 | 15 | \$7,052 | 89% | 0.21 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Other | HVAC | Early | unit (ton) | 199,563 | 1.8% | 0.81 | 15 | \$22,099 | 89% | 0.09 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Other | HVAC | New | unit (ton) | 199,563 | 0.5% | 0.25 | 15 | \$13,684 | 89% | 0.04 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Other | HVAC | ROB | unit (ton) | 199,563 | 1.8% | 0.81 | 15 | \$10,626 | 89% | 0.18 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Other | HVAC | Early | unit (ton) | 199,563 | 2.1% | 0.96 | 15 | \$20,326 | 89% | 0.12 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Other | HVAC | New | unit (ton) | 199,563 | 0.8% | 0.35 | 15 | \$8,156 | 89% | 0.10 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Other | HVAC | ROB | unit (ton) | 199,563 | 0.8% | 0.35 | 15 | \$8,156 | 89% | 0.10 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Other | HVAC | Early | unit (ton) | 199,563 | 2.4% | 1.08 | 15 | \$17,227 | 89% | 0.15 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Other | HVAC | New | unit (ton) | 199,563 | 0.9% | 0.40 | 15 | \$4,335 | 89% | 0.22 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Other | HVAC | ROB | unit (ton) | 199,563 | 2.4% | 1.08 | 15 | \$3,091 | 89% | 0.78 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Other | HVAC | Early | unit (ton) | 199,563 | 1.8% | 0.82 | 15 | \$17,054 | 89% | 0.12 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Other | HVAC | New | unit (ton) | 199,563 | 0.7% | 0.31 | 15 | \$4,776 | 89% | 0.16 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Other | HVAC | ROB | unit (ton) | 199,563 | 1.8% | 0.82 | 15 | \$3,784 | 89% | 0.50 |
| FE-Penn Power | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Other | HVAC | Existing | building | 199,563 | 2.9% | 1.17 | 5 | \$2,117 | 55% | 0.56 |
| FE-Penn Power | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Other | HVAC | New | building | 199,563 | 0.6% | 0.46 | 5 | \$1,270 | 51% | 0.27 |
| FE-Penn Power | Improved Controls - HVAC | Mfg: Other | HVAC | Existing | end use | 199,563 | 21% | 5.98 | 10 | \$2,098 | 76% | 3.21 |
| FE-Penn Power | Improved Controls - HVAC | Mfg: Other | HVAC | New | end use | 199,563 | 21% | 5.98 | 10 | \$2,098 | 76% | 3.21 |
| FE-Penn Power | Outside Air Economizer | Mfg: Other | HVAC | Existing | building | 199,563 | 1.1% | 0.56 | 10 | \$733,231 | 82% | 0.00 |
| FE-Penn Power | Outside Air Economizer | Mfg: Other | HVAC | New | building | 199,563 | 1.1% | 0.56 | 10 | \$733,231 | 82% | 0.00 |
| FE-Penn Power | Recommissioning | Mfg: Other | HVAC | Existing | end use | 199,563 | 5.0% | 1.43 | 10 | \$274 | 88% | 3.96 |
| FE-Penn Power | Recommissioning | Mfg: Other | HVAC | New | end use | 199,563 | 5.0% | 1.43 | 10 | \$274 | 88% | 3.96 |
| FE-Penn Power | Room AC (with louvered sides) | Mfg: Other | HVAC | Early | unit (ton) | 199,563 | 7.7% | 3.47 | 9 | \$15,648 | 78% | 0.36 |
| FE-Penn Power | Room AC (with louvered sides) | Mfg: Other | HVAC | New | unit (ton) | 199,563 | 2.6% | 1.16 | 9 | \$857 | 78% | 1.66 |
| FE-Penn Power | Room AC (with louvered sides) | Mfg: Other | HVAC | ROB | unit (ton) | 199,563 | 2.6% | 1.16 | 9 | \$857 | 78% | 1.66 |
| FE-Penn Power | Variable Refrigerant Flow Heat Pump | Mfg: Other | HVAC | New | measure | 199,563 | 0.1% | 0.05 | 13 | \$1,469 | 43% | 0.08 |
| FE-Penn Power | Variable Refrigerant Flow Heat Pump | Mfg: Other | HVAC | ROB | measure | 199,563 | 0.1% | 0.05 | 13 | \$1,469 | 43% | 0.08 |
| FE-Penn Power | VFD on Cooling Tower Fan | Mfg: Other | HVAC | Early | motor | 199,563 | 21% | 12.58 | 15 | \$9,215 | 15% | 2.07 |
| FE-Penn Power | VFD on Cooling Tower Fan | Mfg: Other | HVAC | New | motor | 199,563 | 22% | 12.59 | 15 | \$9,391 | 15% | 2.06 |
| FE-Penn Power | VFD on Cooling Tower Fan | Mfg: Other | HVAC | ROB | motor | 199,563 | 22% | 12.59 | 15 | \$9,391 | 15% | 2.06 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Mfg: Other | HVAC | Existing | building | 199,563 | 19% | 9.54 | 15 | \$141,962 | 26% | 0.15 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Mfg: Other | HVAC | New | building | 199,563 | 0.6% | 0.30 | 15 | \$108,892 | 94% | 0.01 |
| FE-Penn Power | Water Source Heat Pump (4 ton) | Mfg: Other | HVAC | Early | heat pump | 199,563 | 1.5% | 0.69 | 15 | \$33,925 | 28% | 0.05 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---------------------------------------|------------|----------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Water Source Heat Pump (4 ton) | Mfg: Other | HVAC | New | heat pump | 199,563 | 1.1% | 0.51 | 15 | \$16,534 | 28% | 0.07 |
| FE-Penn Power | Water Source Heat Pump (4 ton) | Mfg: Other | HVAC | ROB | heat pump | 199,563 | 1.1% | 0.51 | 15 | \$16,534 | 28% | 0.07 |
| FE-Penn Power | Efficient Metal Halide (High Bay) | Mfg: Other | Lighting | Early | end use | 141,652 | 42% | 0.00 | 9 | \$22,135 | 53% | 0.67 |
| FE-Penn Power | Efficient Metal Halide (High Bay) | Mfg: Other | Lighting | New | end use | 141,652 | 41% | 0.00 | 13 | \$591,227 | 61% | 0.04 |
| FE-Penn Power | Efficient Metal Halide (High Bay) | Mfg: Other | Lighting | ROB | end use | 141,652 | 41% | 0.00 | 13 | \$451,848 | 61% | 0.05 |
| FE-Penn Power | Induction (High Bay) | Mfg: Other | Lighting | Early | end use | 141,652 | 94% | 0.00 | 13 | \$65,861 | 95% | 0.68 |
| FE-Penn Power | Induction (High Bay) | Mfg: Other | Lighting | New | end use | 141,652 | 94% | 0.00 | 13 | \$61,662 | 95% | 0.72 |
| FE-Penn Power | Induction (High Bay) | Mfg: Other | Lighting | ROB | end use | 141,652 | 94% | 0.00 | 13 | \$46,865 | 95% | 0.92 |
| FE-Penn Power | LED (High Bay) | Mfg: Other | Lighting | Early | end use | 141,652 | 69% | 0.00 | 14 | \$77,527 | 95% | 0.47 |
| FE-Penn Power | LED (High Bay) | Mfg: Other | Lighting | New | end use | 141,652 | 55% | 0.00 | 14 | \$86,053 | 95% | 0.35 |
| FE-Penn Power | LED (High Bay) | Mfg: Other | Lighting | ROB | end use | 141,652 | 59% | 0.00 | 14 | \$56,699 | 95% | 0.54 |
| FE-Penn Power | Lighting Controls | Mfg: Other | Lighting | Existing | end use | 141,652 | 20% | 0.00 | 6 | \$531,035 | 16% | 0.01 |
| FE-Penn Power | Lighting Controls | Mfg: Other | Lighting | New | end use | 141,652 | 12% | 0.00 | 10 | \$706,451 | 11% | 0.01 |
| FE-Penn Power | Linear Fluorescent (High Bay) | Mfg: Other | Lighting | Early | end use | 141,652 | 17% | 0.00 | 14 | \$16,208 | 98% | 0.54 |
| FE-Penn Power | Linear Fluorescent (High Bay) | Mfg: Other | Lighting | New | end use | 141,652 | 13% | 0.00 | 14 | \$5,140 | 91% | 1.15 |
| FE-Penn Power | Linear Fluorescent (High Bay) | Mfg: Other | Lighting | ROB | end use | 141,652 | 13% | 0.00 | 14 | \$3,291 | 91% | 1.66 |
| FE-Penn Power | Metal Halide (High Bay) | Mfg: Other | Lighting | Early | end use | 141,652 | 62% | 0.00 | 13 | \$97,376 | 38% | 0.33 |
| FE-Penn Power | Metal Halide (High Bay) | Mfg: Other | Lighting | New | end use | 141,652 | 73% | 0.00 | 13 | \$23,281 | 38% | 1.30 |
| FE-Penn Power | Metal Halide (High Bay) | Mfg: Other | Lighting | ROB | end use | 141,652 | 73% | 0.00 | 13 | \$17,694 | 38% | 1.59 |
| FE-Penn Power | Screw Base CFL | Mfg: Other | Lighting | Early | end use | 141,652 | 80% | 0.00 | 7 | \$38,484 | 17% | 0.60 |
| FE-Penn Power | Screw Base CFL | Mfg: Other | Lighting | New | end use | 141,652 | 73% | 0.00 | 9 | \$31,451 | 18% | 0.79 |
| FE-Penn Power | Screw Base CFL | Mfg: Other | Lighting | ROB | end use | 141,652 | 73% | 0.00 | 9 | \$26,324 | 17% | 0.91 |
| FE-Penn Power | Screw Base LED | Mfg: Other | Lighting | Early | end use | 141,652 | 76% | 0.00 | 9 | \$23,618 | 21% | 1.06 |
| FE-Penn Power | Screw Base LED | Mfg: Other | Lighting | New | end use | 141,652 | 77% | 0.00 | 9 | \$13,157 | 20% | 1.61 |
| FE-Penn Power | Screw Base LED | Mfg: Other | Lighting | ROB | end use | 141,652 | 77% | 0.00 | 9 | \$10,444 | 21% | 1.85 |
| FE-Penn Power | T8 High Performance Linear Florescent | Mfg: Other | Lighting | Early | end use | 141,652 | 36% | 0.00 | 14 | \$13,555 | 71% | 1.22 |
| FE-Penn Power | T8 High Performance Linear Florescent | Mfg: Other | Lighting | New | end use | 141,652 | 26% | 0.00 | 14 | \$4,850 | 76% | 2.05 |
| FE-Penn Power | T8 High Performance Linear Florescent | Mfg: Other | Lighting | ROB | end use | 141,652 | 26% | 0.00 | 14 | \$3,686 | 76% | 2.42 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Other | Motors | Early | end use | 31,216 | 0.9% | 0.04 | 15 | \$477 | 81% | 0.28 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Other | Motors | New | end use | 31,216 | 0.9% | 0.04 | 15 | \$477 | 81% | 0.28 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Other | Motors | ROB | end use | 31,216 | 0.9% | 0.04 | 15 | \$477 | 81% | 0.28 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Other | Motors | Early | end use | 31,216 | 0.8% | 0.03 | 15 | \$290 | 73% | 0.37 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Other | Motors | New | end use | 31,216 | 0.8% | 0.03 | 15 | \$290 | 73% | 0.37 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Other | Motors | ROB | end use | 31,216 | 0.7% | 0.03 | 15 | \$290 | 73% | 0.37 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Other | Motors | Early | end use | 31,216 | 0.5% | 0.02 | 15 | \$111 | 81% | 0.57 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Other | Motors | New | end use | 31,216 | 0.5% | 0.02 | 15 | \$111 | 81% | 0.56 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Other | Motors | ROB | end use | 31,216 | 0.5% | 0.02 | 15 | \$111 | 81% | 0.58 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Other | Motors | Early | end use | 31,216 | 0.4% | 0.02 | 15 | \$37 | 73% | 1.35 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Other | Motors | New | end use | 31,216 | 0.4% | 0.02 | 15 | \$37 | 73% | 1.32 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Other | Motors | ROB | end use | 31,216 | 0.4% | 0.02 | 15 | \$37 | 73% | 1.31 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Other | Motors | Early | end use | 31,216 | 0.9% | 0.04 | 15 | \$55 | 47% | 1.85 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Other | Motors | New | end use | 31,216 | 0.9% | 0.04 | 15 | \$55 | 47% | 1.86 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Other | Motors | ROB | end use | 31,216 | 0.9% | 0.04 | 15 | \$55 | 47% | 1.87 |
| FE-Penn Power | Facility Energy Management | Mfg: Other | Motors | Existing | end use | 31,216 | 1.9% | 0.08 | 2 | \$12 | 77% | 1.09 |
| FE-Penn Power | Facility Energy Management | Mfg: Other | Motors | New | end use | 31,216 | 1.9% | 0.08 | 2 | \$12 | 77% | 1.10 |
| FE-Penn Power | HE Motors | Mfg: Other | Motors | Early | end use | 31,216 | 2.0% | 0.09 | 15 | \$186 | 38% | 1.34 |
| FE-Penn Power | HE Motors | Mfg: Other | Motors | New | end use | 31,216 | 2.0% | 0.09 | 15 | \$186 | 38% | 1.34 |
| FE-Penn Power | HE Motors | Mfg: Other | Motors | ROB | end use | 31,216 | 2.0% | 0.09 | 15 | \$186 | 38% | 1.34 |
| FE-Penn Power | High-Efficiency Ventilation System | Mfg: Other | Motors | Early | end use | 31,216 | 5.7% | 0.25 | 10 | \$1,951 | 73% | 0.31 |
| FE-Penn Power | High-Efficiency Ventilation System | Mfg: Other | Motors | New | end use | 31,216 | 5.7% | 0.25 | 10 | \$1,951 | 73% | 0.31 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|--|------------|------------------------|----------|---------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | High-Efficiency Ventilation System | Mfg: Other | Motors | ROB | end use | 31,216 | 5.7% | 0.25 | 10 | \$1,951 | 73% | 0.31 |
| FE-Penn Power | Improved Controls - Motors | Mfg: Other | Motors | Existing | end use | 31,216 | 4.0% | 0.18 | 10 | \$136 | 73% | 2.03 |
| FE-Penn Power | Improved Controls - Motors | Mfg: Other | Motors | New | end use | 31,216 | 4.0% | 0.18 | 10 | \$136 | 73% | 2.03 |
| FE-Penn Power | Motor Management Plan | Mfg: Other | Motors | Existing | end use | 31,216 | 2.9% | 0.13 | 10 | \$64 | 73% | 2.60 |
| FE-Penn Power | Motor Management Plan | Mfg: Other | Motors | New | end use | 31,216 | 2.9% | 0.13 | 10 | \$64 | 73% | 2.60 |
| FE-Penn Power | Motors Other | Mfg: Other | Motors | Existing | end use | 31,216 | 1.1% | 0.05 | 15 | \$6.2 | 83% | 5.48 |
| FE-Penn Power | Motors Other | Mfg: Other | Motors | New | end use | 31,216 | 1.1% | 0.05 | 15 | \$6.2 | 83% | 5.48 |
| FE-Penn Power | Motors: Rewind 101-200 HP | Mfg: Other | Motors | Existing | end use | 31,216 | 0.6% | 0.02 | 10 | \$39 | 27% | 1.23 |
| FE-Penn Power | Motors: Rewind 101-200 HP | Mfg: Other | Motors | New | end use | 31,216 | 0.6% | 0.02 | 10 | \$39 | 27% | 1.23 |
| FE-Penn Power | Motors: Rewind 201-500 HP | Mfg: Other | Motors | Existing | end use | 31,216 | 0.6% | 0.02 | 8 | \$25 | 27% | 1.47 |
| FE-Penn Power | Motors: Rewind 201-500 HP | Mfg: Other | Motors | New | end use | 31,216 | 0.5% | 0.02 | 8 | \$25 | 27% | 1.46 |
| FE-Penn Power | Motors: Rewind 20-50 HP | Mfg: Other | Motors | Existing | end use | 31,216 | 1.0% | 0.05 | 11 | \$116 | 42% | 0.92 |
| FE-Penn Power | Motors: Rewind 20-50 HP | Mfg: Other | Motors | New | end use | 31,216 | 1.0% | 0.05 | 11 | \$116 | 42% | 0.92 |
| FE-Penn Power | Motors: Rewind 500+ HP | Mfg: Other | Motors | Existing | end use | 31,216 | 0.6% | 0.02 | 8 | \$18 | 11% | 1.84 |
| FE-Penn Power | Motors: Rewind 500+ HP | Mfg: Other | Motors | New | end use | 31,216 | 0.6% | 0.02 | 8 | \$18 | 11% | 1.84 |
| FE-Penn Power | Motors: Rewind 51-100 HP | Mfg: Other | Motors | Existing | end use | 31,216 | 0.6% | 0.03 | 9 | \$57 | 42% | 0.92 |
| FE-Penn Power | Motors: Rewind 51-100 HP | Mfg: Other | Motors | New | end use | 31,216 | 0.6% | 0.03 | 9 | \$57 | 42% | 0.91 |
| FE-Penn Power | Switch from Belt drive to Direct Drive | Mfg: Other | Motors | Early | end use | 31,216 | 7.5% | 0.33 | 12 | \$501 | 30% | 1.45 |
| FE-Penn Power | Switch from Belt drive to Direct Drive | Mfg: Other | Motors | New | end use | 31,216 | 7.5% | 0.33 | 12 | \$501 | 30% | 1.45 |
| FE-Penn Power | Switch from Belt drive to Direct Drive | Mfg: Other | Motors | ROB | end use | 31,216 | 7.5% | 0.33 | 12 | \$501 | 30% | 1.45 |
| FE-Penn Power | Synchronous Belts | Mfg: Other | Motors | Early | end use | 31,216 | 1.2% | 0.05 | 10 | \$46 | 30% | 1.86 |
| FE-Penn Power | Synchronous Belts | Mfg: Other | Motors | New | end use | 31,216 | 1.2% | 0.05 | 10 | \$46 | 30% | 1.86 |
| FE-Penn Power | Synchronous Belts | Mfg: Other | Motors | ROB | end use | 31,216 | 1.2% | 0.05 | 10 | \$46 | 30% | 1.86 |
| FE-Penn Power | Bldg Improvements | Mfg: Other | Other | Existing | end use | 43,047 | 16% | 0.83 | 15 | \$939 | 72% | 2.31 |
| FE-Penn Power | Bldg Improvements | Mfg: Other | Other | New | end use | 43,047 | 16% | 0.83 | 15 | \$939 | 72% | 2.31 |
| FE-Penn Power | Energy Project Management | Mfg: Other | Other | Existing | end use | 43,047 | 29% | 1.49 | 11 | \$1,537 | 63% | 1.95 |
| FE-Penn Power | Energy Project Management | Mfg: Other | Other | New | end use | 43,047 | 29% | 1.49 | 11 | \$1,537 | 63% | 1.95 |
| FE-Penn Power | Facility Energy Management | Mfg: Other | Other | Existing | end use | 43,047 | 1.9% | 0.09 | 2 | \$17 | 76% | 1.07 |
| FE-Penn Power | Facility Energy Management | Mfg: Other | Other | New | end use | 43,047 | 1.9% | 0.09 | 2 | \$17 | 76% | 1.06 |
| FE-Penn Power | Integrated Plant Energy Management | Mfg: Other | Other | Existing | end use | 43,047 | 50% | 2.56 | 11 | \$4,243 | 48% | 1.41 |
| FE-Penn Power | Integrated Plant Energy Management | Mfg: Other | Other | New | end use | 43,047 | 50% | 2.56 | 11 | \$4,243 | 48% | 1.41 |
| FE-Penn Power | Plant Energy Management | Mfg: Other | Other | Existing | end use | 43,047 | 12% | 0.61 | 10 | \$108 | 55% | 3.90 |
| FE-Penn Power | Plant Energy Management | Mfg: Other | Other | New | end use | 43,047 | 12% | 0.61 | 10 | \$108 | 55% | 3.90 |
| FE-Penn Power | Transformers | Mfg: Other | Other | Early | end use | 43,047 | 1.6% | 0.08 | 15 | \$138 | 34% | 1.71 |
| FE-Penn Power | Transformers | Mfg: Other | Other | New | end use | 43,047 | 1.6% | 0.08 | 15 | \$138 | 34% | 1.72 |
| FE-Penn Power | Transformers | Mfg: Other | Other | ROB | end use | 43,047 | 1.6% | 0.08 | 15 | \$138 | 34% | 1.72 |
| FE-Penn Power | Air Compressor Demand Reduction | Mfg: Other | Process Air Compressor | Existing | end use | 1,766 | 26% | 0.06 | 10 | \$26 | 52% | 2.80 |
| FE-Penn Power | Air Compressor Demand Reduction | Mfg: Other | Process Air Compressor | New | end use | 1,766 | 26% | 0.06 | 10 | \$26 | 52% | 2.80 |
| FE-Penn Power | Air Compressor Equipment | Mfg: Other | Process Air Compressor | Early | end use | 1,766 | 39% | 0.09 | 10 | \$32 | 73% | 3.08 |
| FE-Penn Power | Air Compressor Equipment | Mfg: Other | Process Air Compressor | New | end use | 1,766 | 39% | 0.09 | 10 | \$32 | 73% | 3.08 |
| FE-Penn Power | Air Compressor Equipment | Mfg: Other | Process Air Compressor | ROB | end use | 1,766 | 39% | 0.09 | 10 | \$32 | 73% | 3.08 |
| FE-Penn Power | Air Compressor Optimization | Mfg: Other | Process Air Compressor | Existing | end use | 1,766 | 39% | 0.09 | 10 | \$77 | 55% | 1.99 |
| FE-Penn Power | Air Compressor Optimization | Mfg: Other | Process Air Compressor | New | end use | 1,766 | 39% | 0.09 | 10 | \$77 | 55% | 1.99 |
| FE-Penn Power | Facility Energy Management | Mfg: Other | Process Air Compressor | Existing | end use | 1,766 | 1.9% | 0.00 | 2 | \$0.7 | 62% | 1.08 |
| FE-Penn Power | Facility Energy Management | Mfg: Other | Process Air Compressor | New | end use | 1,766 | 1.9% | 0.00 | 2 | \$0.7 | 62% | 1.08 |
| FE-Penn Power | HE Compressor motors | Mfg: Other | Process Air Compressor | Early | end use | 1,766 | 1.1% | 0.00 | 15 | \$6.7 | 73% | 1.16 |
| FE-Penn Power | HE Compressor motors | Mfg: Other | Process Air Compressor | New | end use | 1,766 | 1.1% | 0.00 | 15 | \$6.7 | 73% | 1.17 |
| FE-Penn Power | HE Compressor motors | Mfg: Other | Process Air Compressor | ROB | end use | 1,766 | 1.1% | 0.00 | 15 | \$6.7 | 73% | 1.17 |
| FE-Penn Power | Improved Controls - Air Compressor | Mfg: Other | Process Air Compressor | Existing | end use | 1,766 | 41% | 0.09 | 10 | \$32 | 25% | 3.15 |
| FE-Penn Power | Improved Controls - Air Compressor | Mfg: Other | Process Air Compressor | New | end use | 1,766 | 41% | 0.09 | 10 | \$32 | 25% | 3.15 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---------------------------------------|------------|------------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Low Pressure-drop Filters | Mfg: Other | Process Air Compressor | Existing | end use | 1,766 | 1.9% | 0.00 | 10 | \$20 | 61% | 0.53 |
| FE-Penn Power | Low Pressure-drop Filters | Mfg: Other | Process Air Compressor | New | end use | 1,766 | 1.8% | 0.00 | 10 | \$20 | 61% | 0.53 |
| FE-Penn Power | Outside Air Intake | Mfg: Other | Process Air Compressor | Existing | end use | 1,766 | 1.4% | 0.00 | 10 | \$12 | 48% | 0.68 |
| FE-Penn Power | Outside Air Intake | Mfg: Other | Process Air Compressor | New | end use | 1,766 | 1.4% | 0.00 | 10 | \$12 | 48% | 0.68 |
| FE-Penn Power | Receiver Capacity Addition | Mfg: Other | Process Air Compressor | Existing | end use | 1,766 | 5.9% | 0.01 | 10 | \$33 | 36% | 0.94 |
| FE-Penn Power | Receiver Capacity Addition | Mfg: Other | Process Air Compressor | New | end use | 1,766 | 5.9% | 0.01 | 10 | \$33 | 36% | 0.94 |
| FE-Penn Power | Refrigerated Cycling Dryers | Mfg: Other | Process Air Compressor | Early | end use | 1,766 | 1.7% | 0.00 | 10 | \$4.1 | 21% | 1.73 |
| FE-Penn Power | Refrigerated Cycling Dryers | Mfg: Other | Process Air Compressor | New | end use | 1,766 | 1.7% | 0.00 | 10 | \$4.1 | 21% | 1.74 |
| FE-Penn Power | Refrigerated Cycling Dryers | Mfg: Other | Process Air Compressor | ROB | end use | 1,766 | 1.7% | 0.00 | 10 | \$4.1 | 21% | 1.74 |
| FE-Penn Power | VFD Controlled Compressor | Mfg: Other | Process Air Compressor | Early | end use | 1,766 | 24% | 0.05 | 10 | \$174 | 28% | 0.74 |
| FE-Penn Power | VFD Controlled Compressor | Mfg: Other | Process Air Compressor | New | end use | 1,766 | 24% | 0.05 | 10 | \$174 | 28% | 0.74 |
| FE-Penn Power | VFD Controlled Compressor | Mfg: Other | Process Air Compressor | ROB | end use | 1,766 | 24% | 0.05 | 10 | \$174 | 28% | 0.74 |
| FE-Penn Power | Zero Loss Condensate Drain | Mfg: Other | Process Air Compressor | Early | end use | 1,766 | 1.8% | 0.00 | 10 | \$10 | 36% | 0.95 |
| FE-Penn Power | Zero Loss Condensate Drain | Mfg: Other | Process Air Compressor | New | end use | 1,766 | 1.8% | 0.00 | 10 | \$10 | 36% | 0.95 |
| FE-Penn Power | Zero Loss Condensate Drain | Mfg: Other | Process Air Compressor | ROB | end use | 1,766 | 1.9% | 0.00 | 10 | \$10 | 36% | 0.95 |
| FE-Penn Power | Cooling Tower Optimization | Mfg: Other | Process Cooling | Existing | building | 25,722 | 20% | 2.13 | 10 | \$158 | 15% | 4.68 |
| FE-Penn Power | Equipment: Chillers | Mfg: Other | Process Cooling | Early | end use | 25,722 | 18% | 0.96 | 15 | \$1,207 | 46% | 1.53 |
| FE-Penn Power | Equipment: Chillers | Mfg: Other | Process Cooling | New | end use | 25,722 | 18% | 0.96 | 15 | \$1,207 | 46% | 1.53 |
| FE-Penn Power | Equipment: Chillers | Mfg: Other | Process Cooling | ROB | end use | 25,722 | 18% | 0.96 | 15 | \$1,207 | 46% | 1.53 |
| FE-Penn Power | Facility Energy Management | Mfg: Other | Process Cooling | Existing | end use | 25,722 | 1.9% | 0.10 | 2 | \$9.9 | 59% | 1.15 |
| FE-Penn Power | Facility Energy Management | Mfg: Other | Process Cooling | New | end use | 25,722 | 1.9% | 0.10 | 2 | \$9.9 | 59% | 1.15 |
| FE-Penn Power | Improved Controls - Process Cooling | Mfg: Other | Process Cooling | Existing | end use | 25,722 | 6.0% | 0.32 | 10 | \$1,358 | 56% | 0.41 |
| FE-Penn Power | Improved Controls - Process Cooling | Mfg: Other | Process Cooling | New | end use | 25,722 | 6.0% | 0.32 | 10 | \$1,358 | 56% | 0.41 |
| FE-Penn Power | VFD on Cooling Tower Fan | Mfg: Other | Process Cooling | Early | motor | 25,722 | 21% | 1.62 | 15 | \$1,188 | 20% | 1.93 |
| FE-Penn Power | VFD on Cooling Tower Fan | Mfg: Other | Process Cooling | New | motor | 25,722 | 22% | 1.62 | 15 | \$1,210 | 20% | 1.92 |
| FE-Penn Power | VFD on Cooling Tower Fan | Mfg: Other | Process Cooling | ROB | motor | 25,722 | 22% | 1.62 | 15 | \$1,210 | 20% | 1.92 |
| FE-Penn Power | Improved Controls - Process Heating | Mfg: Other | Process Heating | Existing | end use | 88,059 | 17% | 2.07 | 10 | \$1,012 | 77% | 2.58 |
| FE-Penn Power | Improved Controls - Process Heating | Mfg: Other | Process Heating | New | end use | 88,059 | 17% | 2.07 | 10 | \$1,012 | 77% | 2.58 |
| FE-Penn Power | Process Heat O&M | Mfg: Other | Process Heating | Existing | end use | 88,059 | 16% | 1.96 | 2 | \$611 | 77% | 0.85 |
| FE-Penn Power | Process Heat O&M | Mfg: Other | Process Heating | New | end use | 88,059 | 16% | 1.96 | 2 | \$611 | 77% | 0.85 |
| FE-Penn Power | Facility Energy Management | Mfg: Other | Process Other | Existing | end use | 16,558 | 2.0% | 0.04 | 2 | \$6.4 | 73% | 1.06 |
| FE-Penn Power | Facility Energy Management | Mfg: Other | Process Other | New | end use | 16,558 | 1.9% | 0.04 | 2 | \$6.4 | 73% | 1.06 |
| FE-Penn Power | Adjustable speed drive on compressors | Mfg: Other | Process Refrigeration | Early | end use | 13,213 | 12% | 0.23 | 10 | \$244 | 64% | 1.61 |
| FE-Penn Power | Adjustable speed drive on compressors | Mfg: Other | Process Refrigeration | New | end use | 13,213 | 12% | 0.23 | 10 | \$244 | 64% | 1.61 |
| FE-Penn Power | Adjustable speed drive on compressors | Mfg: Other | Process Refrigeration | ROB | end use | 13,213 | 12% | 0.23 | 10 | \$244 | 64% | 1.61 |
| FE-Penn Power | Cooling Tower Optimization | Mfg: Other | Process Refrigeration | Existing | building | 13,213 | 20% | 1.10 | 10 | \$81 | 15% | 4.68 |
| FE-Penn Power | Optimization of operating parameters | Mfg: Other | Process Refrigeration | Existing | end use | 13,213 | 13% | 0.25 | 3 | \$107 | 57% | 1.07 |
| FE-Penn Power | Optimization of operating parameters | Mfg: Other | Process Refrigeration | New | end use | 13,213 | 13% | 0.25 | 3 | \$107 | 57% | 1.07 |
| FE-Penn Power | Synchronous Belts | Mfg: Other | Process Refrigeration | Early | end use | 13,213 | 1.2% | 0.02 | 10 | \$19 | 64% | 1.87 |
| FE-Penn Power | Synchronous Belts | Mfg: Other | Process Refrigeration | New | end use | 13,213 | 1.2% | 0.02 | 10 | \$19 | 64% | 1.87 |
| FE-Penn Power | Synchronous Belts | Mfg: Other | Process Refrigeration | ROB | end use | 13,213 | 1.2% | 0.02 | 10 | \$19 | 64% | 1.87 |
| FE-Penn Power | VFD on Cooling Tower Fan | Mfg: Other | Process Refrigeration | Early | motor | 13,213 | 21% | 0.83 | 15 | \$610 | 20% | 1.93 |
| FE-Penn Power | VFD on Cooling Tower Fan | Mfg: Other | Process Refrigeration | New | motor | 13,213 | 22% | 0.83 | 15 | \$622 | 20% | 1.92 |
| FE-Penn Power | VFD on Cooling Tower Fan | Mfg: Other | Process Refrigeration | ROB | motor | 13,213 | 22% | 0.83 | 15 | \$622 | 20% | 1.92 |
| FE-Penn Power | Facility Energy Management | Mfg: Other | Pumps | Existing | end use | 174,983 | 1.9% | 0.42 | 2 | \$67 | 73% | 1.13 |
| FE-Penn Power | Facility Energy Management | Mfg: Other | Pumps | New | end use | 174,983 | 1.9% | 0.42 | 2 | \$67 | 73% | 1.13 |
| FE-Penn Power | HE Motors | Mfg: Other | Pumps | Early | end use | 174,983 | 2.0% | 0.47 | 15 | \$1,042 | 77% | 1.32 |
| FE-Penn Power | HE Motors | Mfg: Other | Pumps | New | end use | 174,983 | 2.0% | 0.47 | 15 | \$1,042 | 77% | 1.32 |
| FE-Penn Power | HE Motors | Mfg: Other | Pumps | ROB | end use | 174,983 | 2.0% | 0.47 | 15 | \$1,042 | 77% | 1.32 |
| FE-Penn Power | Motor rewinds | Mfg: Other | Pumps | Existing | end use | 174,983 | 0.6% | 0.14 | 9 | \$249 | 12% | 1.14 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|-------------------------------------|------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Motor rewinds | Mfg: Other | Pumps | New | end use | 174,983 | 0.6% | 0.14 | 9 | \$249 | 12% | 1.14 |
| FE-Penn Power | Pump Equipment Upgrade | Mfg: Other | Pumps | Early | end use | 174,983 | 20% | 4.55 | 12 | \$4,375 | 86% | 2.08 |
| FE-Penn Power | Pump Equipment Upgrade | Mfg: Other | Pumps | New | end use | 174,983 | 20% | 4.55 | 12 | \$4,375 | 86% | 2.08 |
| FE-Penn Power | Pump Equipment Upgrade | Mfg: Other | Pumps | ROB | end use | 174,983 | 20% | 4.55 | 12 | \$4,375 | 86% | 2.08 |
| FE-Penn Power | Pump System Optimization | Mfg: Other | Pumps | Existing | end use | 174,983 | 8.7% | 1.98 | 12 | \$3,204 | 40% | 1.51 |
| FE-Penn Power | Pump System Optimization | Mfg: Other | Pumps | New | end use | 174,983 | 8.7% | 1.98 | 12 | \$3,204 | 40% | 1.51 |
| FE-Penn Power | Synchronous Belts | Mfg: Other | Pumps | Early | end use | 174,983 | 1.2% | 0.27 | 10 | \$258 | 64% | 1.83 |
| FE-Penn Power | Synchronous Belts | Mfg: Other | Pumps | New | end use | 174,983 | 1.2% | 0.27 | 10 | \$258 | 64% | 1.83 |
| FE-Penn Power | Synchronous Belts | Mfg: Other | Pumps | ROB | end use | 174,983 | 1.2% | 0.27 | 10 | \$258 | 64% | 1.83 |
| FE-Penn Power | Circulating Fans | Mfg: Paper | Fans | Early | end use | 1,226,772 | 5.0% | 7.30 | 10 | \$7,468 | 68% | 1.94 |
| FE-Penn Power | Circulating Fans | Mfg: Paper | Fans | New | end use | 1,226,772 | 5.0% | 7.30 | 10 | \$7,468 | 68% | 1.94 |
| FE-Penn Power | Circulating Fans | Mfg: Paper | Fans | ROB | end use | 1,226,772 | 5.0% | 7.30 | 10 | \$7,468 | 68% | 1.94 |
| FE-Penn Power | Efficient Centrifugal Fan | Mfg: Paper | Fans | Early | end use | 1,226,772 | 20% | 29.21 | 10 | \$44,610 | 68% | 1.47 |
| FE-Penn Power | Efficient Centrifugal Fan | Mfg: Paper | Fans | New | end use | 1,226,772 | 20% | 29.21 | 10 | \$44,610 | 68% | 1.47 |
| FE-Penn Power | Efficient Centrifugal Fan | Mfg: Paper | Fans | ROB | end use | 1,226,772 | 20% | 29.21 | 10 | \$44,610 | 68% | 1.47 |
| FE-Penn Power | Facility Energy Management | Mfg: Paper | Fans | Existing | end use | 1,226,772 | 1.9% | 2.69 | 2 | \$473 | 77% | 1.12 |
| FE-Penn Power | Facility Energy Management | Mfg: Paper | Fans | New | end use | 1,226,772 | 1.8% | 2.69 | 2 | \$473 | 77% | 1.11 |
| FE-Penn Power | Fan Equipment Upgrade | Mfg: Paper | Fans | Early | end use | 1,226,772 | 35% | 51.11 | 10 | \$36,803 | 68% | 2.38 |
| FE-Penn Power | Fan Equipment Upgrade | Mfg: Paper | Fans | New | end use | 1,226,772 | 35% | 51.11 | 10 | \$36,803 | 68% | 2.38 |
| FE-Penn Power | Fan Equipment Upgrade | Mfg: Paper | Fans | ROB | end use | 1,226,772 | 35% | 51.11 | 10 | \$36,803 | 68% | 2.38 |
| FE-Penn Power | Fan System Optimization | Mfg: Paper | Fans | Existing | end use | 1,226,772 | 7.3% | 10.71 | 10 | \$16,733 | 83% | 1.45 |
| FE-Penn Power | Fan System Optimization | Mfg: Paper | Fans | New | end use | 1,226,772 | 7.3% | 10.71 | 10 | \$16,733 | 83% | 1.45 |
| FE-Penn Power | HE Motors | Mfg: Paper | Fans | Early | end use | 1,226,772 | 2.0% | 2.99 | 15 | \$7,303 | 77% | 1.37 |
| FE-Penn Power | HE Motors | Mfg: Paper | Fans | New | end use | 1,226,772 | 2.0% | 2.99 | 15 | \$7,303 | 77% | 1.37 |
| FE-Penn Power | HE Motors | Mfg: Paper | Fans | ROB | end use | 1,226,772 | 2.0% | 2.99 | 15 | \$7,303 | 77% | 1.37 |
| FE-Penn Power | Improved Controls - Fans | Mfg: Paper | Fans | Existing | end use | 1,226,772 | 7.1% | 10.37 | 10 | \$4,756 | 88% | 2.98 |
| FE-Penn Power | Improved Controls - Fans | Mfg: Paper | Fans | New | end use | 1,226,772 | 7.1% | 10.37 | 10 | \$4,756 | 88% | 2.98 |
| FE-Penn Power | Paper: Premium Fan | Mfg: Paper | Fans | Early | end use | 1,226,772 | 20% | 29.21 | 10 | \$44,610 | 61% | 1.48 |
| FE-Penn Power | Paper: Premium Fan | Mfg: Paper | Fans | New | end use | 1,226,772 | 20% | 29.21 | 10 | \$44,610 | 61% | 1.47 |
| FE-Penn Power | Paper: Premium Fan | Mfg: Paper | Fans | ROB | end use | 1,226,772 | 20% | 29.21 | 10 | \$44,610 | 61% | 1.47 |
| FE-Penn Power | Properly Sized Fans | Mfg: Paper | Fans | Early | end use | 1,226,772 | 13% | 19.21 | 10 | \$25,126 | 41% | 1.65 |
| FE-Penn Power | Properly Sized Fans | Mfg: Paper | Fans | New | end use | 1,226,772 | 13% | 19.21 | 10 | \$25,126 | 41% | 1.65 |
| FE-Penn Power | Properly Sized Fans | Mfg: Paper | Fans | ROB | end use | 1,226,772 | 13% | 19.21 | 10 | \$25,126 | 41% | 1.65 |
| FE-Penn Power | Synchronous Belts | Mfg: Paper | Fans | Early | end use | 1,226,772 | 1.2% | 1.70 | 10 | \$1,808 | 41% | 1.89 |
| FE-Penn Power | Synchronous Belts | Mfg: Paper | Fans | New | end use | 1,226,772 | 1.2% | 1.70 | 10 | \$1,808 | 41% | 1.89 |
| FE-Penn Power | Synchronous Belts | Mfg: Paper | Fans | ROB | end use | 1,226,772 | 1.2% | 1.70 | 10 | \$1,808 | 41% | 1.89 |
| FE-Penn Power | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Paper | HVAC | Early | unit (ton) | 252,358 | 9.2% | 6.01 | 15 | \$45,991 | 28% | 0.28 |
| FE-Penn Power | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Paper | HVAC | New | unit (ton) | 252,358 | 4.1% | 2.70 | 15 | \$11,143 | 28% | 0.50 |
| FE-Penn Power | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Paper | HVAC | ROB | unit (ton) | 252,358 | 4.1% | 2.70 | 15 | \$11,143 | 28% | 0.50 |
| FE-Penn Power | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Paper | HVAC | Early | unit (ton) | 252,358 | 12% | 8.12 | 15 | \$54,218 | 28% | 0.32 |
| FE-Penn Power | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Paper | HVAC | New | unit (ton) | 252,358 | 7.7% | 5.04 | 15 | \$23,469 | 28% | 0.45 |
| FE-Penn Power | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Paper | HVAC | ROB | unit (ton) | 252,358 | 7.7% | 5.04 | 15 | \$23,469 | 28% | 0.45 |
| FE-Penn Power | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Paper | HVAC | Early | unit (ton) | 252,358 | 15% | 9.98 | 15 | \$62,446 | 29% | 0.34 |
| FE-Penn Power | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Paper | HVAC | New | unit (ton) | 252,358 | 11% | 7.08 | 15 | \$35,795 | 29% | 0.42 |
| FE-Penn Power | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Paper | HVAC | ROB | unit (ton) | 252,358 | 11% | 7.08 | 15 | \$35,795 | 29% | 0.42 |
| FE-Penn Power | >760k min 10.2 EER Air Conditioner | Mfg: Paper | HVAC | Early | unit (ton) | 252,358 | 2.1% | 1.39 | 15 | \$80,090 | 35% | 0.04 |
| FE-Penn Power | >760k min 10.2 EER Air Conditioner | Mfg: Paper | HVAC | New | unit (ton) | 252,358 | 2.8% | 1.85 | 15 | \$7,239 | 35% | 0.53 |
| FE-Penn Power | >760k min 10.2 EER Air Conditioner | Mfg: Paper | HVAC | ROB | unit (ton) | 252,358 | 2.8% | 1.85 | 15 | \$7,239 | 35% | 0.53 |
| FE-Penn Power | 135-240k min 12 EER Air Conditioner | Mfg: Paper | HVAC | Early | unit (ton) | 252,358 | 10% | 6.85 | 15 | \$86,725 | 35% | 0.17 |
| FE-Penn Power | 135-240k min 12 EER Air Conditioner | Mfg: Paper | HVAC | New | unit (ton) | 252,358 | 5.8% | 3.78 | 15 | \$10,240 | 35% | 0.74 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | 135-240k min 12 EER Air Conditioner | Mfg: Paper | HVAC | ROB | unit (ton) | 252,358 | 5.8% | 3.78 | 15 | \$10,240 | 35% | 0.74 |
| FE-Penn Power | 240k-760k min 11 EER Air Conditioner | Mfg: Paper | HVAC | Early | unit (ton) | 252,358 | 5.2% | 3.41 | 15 | \$80,140 | 35% | 0.09 |
| FE-Penn Power | 240k-760k min 11 EER Air Conditioner | Mfg: Paper | HVAC | New | unit (ton) | 252,358 | 5.3% | 3.50 | 15 | \$8,586 | 35% | 0.81 |
| FE-Penn Power | 240k-760k min 11 EER Air Conditioner | Mfg: Paper | HVAC | ROB | unit (ton) | 252,358 | 5.3% | 3.50 | 15 | \$8,586 | 35% | 0.81 |
| FE-Penn Power | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Paper | HVAC | Early | unit (ton) | 252,358 | 9.7% | 6.35 | 15 | \$88,799 | 35% | 0.16 |
| FE-Penn Power | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Paper | HVAC | New | unit (ton) | 252,358 | 3.8% | 2.52 | 15 | \$12,669 | 35% | 0.42 |
| FE-Penn Power | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Paper | HVAC | ROB | unit (ton) | 252,358 | 3.8% | 2.52 | 15 | \$12,669 | 35% | 0.42 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Mfg: Paper | HVAC | Existing | building | 252,358 | 5.9% | 3.75 | 15 | \$764,604 | 71% | 0.01 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Mfg: Paper | HVAC | New | building | 252,358 | 3.7% | 2.35 | 15 | \$726,778 | 94% | 0.01 |
| FE-Penn Power | Chiller Tuneup/Diagnostics | Mfg: Paper | HVAC | Existing | building | 252,358 | 8.0% | 7.40 | 10 | \$644,383 | 59% | 0.02 |
| FE-Penn Power | Chiller Tuneup/Diagnostics | Mfg: Paper | HVAC | New | building | 252,358 | 8.0% | 7.42 | 10 | \$644,383 | 59% | 0.02 |
| FE-Penn Power | Cooling Tower Optimization | Mfg: Paper | HVAC | Existing | building | 252,358 | 20% | 18.06 | 10 | \$1,548 | 69% | 4.73 |
| FE-Penn Power | Duct Insulation, Add R8 | Mfg: Paper | HVAC | Existing | building | 252,358 | 1.5% | 0.81 | 15 | \$2,005 | 18% | 0.94 |
| FE-Penn Power | Duct Insulation, Add R8 | Mfg: Paper | HVAC | New | building | 252,358 | 1.5% | 0.81 | 15 | \$2,005 | 9% | 0.94 |
| FE-Penn Power | Ductless Heat Pump | Mfg: Paper | HVAC | Early | heat pump | 252,358 | 0.8% | 0.47 | 15 | \$19,951 | 83% | 0.06 |
| FE-Penn Power | Ductless Heat Pump | Mfg: Paper | HVAC | New | heat pump | 252,358 | 0.4% | 0.25 | 15 | \$5,794 | 83% | 0.10 |
| FE-Penn Power | Ductless Heat Pump | Mfg: Paper | HVAC | ROB | heat pump | 252,358 | 0.4% | 0.25 | 15 | \$5,794 | 83% | 0.10 |
| FE-Penn Power | DX Coil Cleaning | Mfg: Paper | HVAC | Existing | building | 252,358 | 13% | 11.58 | 1 | \$2,419 | 73% | 0.50 |
| FE-Penn Power | DX Coil Cleaning | Mfg: Paper | HVAC | New | building | 252,358 | 13% | 11.57 | 1 | \$2,419 | 73% | 0.50 |
| FE-Penn Power | Efficient Unit Heating System | Mfg: Paper | HVAC | Early | heater | 252,358 | 6.9% | 0.15 | 15 | \$13,624 | 83% | 0.52 |
| FE-Penn Power | Efficient Unit Heating System | Mfg: Paper | HVAC | New | heater | 252,358 | 4.0% | 0.08 | 15 | \$9,293 | 83% | 0.44 |
| FE-Penn Power | Efficient Unit Heating System | Mfg: Paper | HVAC | ROB | heater | 252,358 | 4.0% | 0.08 | 15 | \$9,293 | 83% | 0.44 |
| FE-Penn Power | Ground Source Heat Pump (Closed Loop) | Mfg: Paper | HVAC | Early | heat pump | 252,358 | 1.3% | 0.73 | 15 | \$41,427 | 19% | 0.04 |
| FE-Penn Power | Ground Source Heat Pump (Closed Loop) | Mfg: Paper | HVAC | New | heat pump | 252,358 | 1.0% | 0.58 | 15 | \$16,357 | 19% | 0.09 |
| FE-Penn Power | Ground Source Heat Pump (Closed Loop) | Mfg: Paper | HVAC | ROB | heat pump | 252,358 | 1.0% | 0.58 | 15 | \$16,357 | 19% | 0.09 |
| FE-Penn Power | Ground Source Heat Pump (Open Loop) | Mfg: Paper | HVAC | Early | heat pump | 252,358 | 1.3% | 0.73 | 15 | \$26,532 | 19% | 0.07 |
| FE-Penn Power | Ground Source Heat Pump (Open Loop) | Mfg: Paper | HVAC | New | heat pump | 252,358 | 1.0% | 0.58 | 15 | \$562 | 19% | 1.92 |
| FE-Penn Power | Ground Source Heat Pump (Open Loop) | Mfg: Paper | HVAC | ROB | heat pump | 252,358 | 1.0% | 0.58 | 15 | \$562 | 19% | 1.92 |
| FE-Penn Power | HE Air Cooled Chiller, 100 Tons | Mfg: Paper | HVAC | Early | unit (ton) | 252,358 | 1.5% | 0.83 | 15 | \$293,559 | 89% | 0.01 |
| FE-Penn Power | HE Air Cooled Chiller, 100 Tons | Mfg: Paper | HVAC | New | unit (ton) | 252,358 | 0.4% | 0.23 | 15 | \$42,766 | 89% | 0.01 |
| FE-Penn Power | HE Air Cooled Chiller, 100 Tons | Mfg: Paper | HVAC | ROB | unit (ton) | 252,358 | 0.4% | 0.23 | 15 | \$42,766 | 89% | 0.01 |
| FE-Penn Power | HE Air Cooled Chiller, 150 Tons | Mfg: Paper | HVAC | Early | unit (ton) | 252,358 | 1.4% | 0.82 | 15 | \$253,569 | 89% | 0.01 |
| FE-Penn Power | HE Air Cooled Chiller, 150 Tons | Mfg: Paper | HVAC | New | unit (ton) | 252,358 | 0.3% | 0.17 | 15 | \$21,002 | 89% | 0.02 |
| FE-Penn Power | HE Air Cooled Chiller, 150 Tons | Mfg: Paper | HVAC | ROB | unit (ton) | 252,358 | 0.3% | 0.17 | 15 | \$21,002 | 89% | 0.02 |
| FE-Penn Power | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Paper | HVAC | Early | heat pump | 252,358 | 1.4% | 0.77 | 12 | \$10,814 | 81% | 0.15 |
| FE-Penn Power | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Paper | HVAC | Early | heat pump | 252,358 | 1.1% | 0.64 | 12 | \$7,901 | 81% | 0.17 |
| FE-Penn Power | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Paper | HVAC | New | heat pump | 252,358 | 1.0% | 0.58 | 12 | \$4,828 | 81% | 0.24 |
| FE-Penn Power | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Paper | HVAC | New | heat pump | 252,358 | 0.8% | 0.43 | 12 | \$1,688 | 81% | 0.50 |
| FE-Penn Power | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Paper | HVAC | ROB | heat pump | 252,358 | 1.0% | 0.58 | 12 | \$4,828 | 81% | 0.24 |
| FE-Penn Power | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Paper | HVAC | ROB | heat pump | 252,358 | 0.8% | 0.43 | 12 | \$1,688 | 81% | 0.50 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Paper | HVAC | Early | unit (ton) | 252,358 | 1.6% | 0.90 | 15 | \$23,292 | 89% | 0.09 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Paper | HVAC | New | unit (ton) | 252,358 | 0.9% | 0.52 | 15 | \$7,747 | 89% | 0.16 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Paper | HVAC | ROB | unit (ton) | 252,358 | 0.9% | 0.52 | 15 | \$7,747 | 89% | 0.16 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Paper | HVAC | Early | unit (ton) | 252,358 | 1.4% | 0.80 | 15 | \$22,748 | 89% | 0.09 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Paper | HVAC | New | unit (ton) | 252,358 | 1.0% | 0.56 | 15 | \$4,442 | 89% | 0.30 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Paper | HVAC | ROB | unit (ton) | 252,358 | 1.4% | 0.80 | 15 | \$4,081 | 89% | 0.46 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Paper | HVAC | Early | unit (ton) | 252,358 | 1.4% | 0.79 | 15 | \$26,924 | 89% | 0.07 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Paper | HVAC | New | unit (ton) | 252,358 | 0.9% | 0.50 | 15 | \$11,336 | 89% | 0.11 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Paper | HVAC | ROB | unit (ton) | 252,358 | 1.4% | 0.79 | 15 | \$10,260 | 89% | 0.19 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Paper | HVAC | Early | unit (ton) | 252,358 | 1.4% | 0.79 | 15 | \$25,935 | 89% | 0.07 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|------------|----------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Paper | HVAC | New | unit (ton) | 252,358 | 0.9% | 0.50 | 15 | \$9,854 | 89% | 0.12 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Paper | HVAC | ROB | unit (ton) | 252,358 | 1.4% | 0.79 | 15 | \$8,918 | 89% | 0.21 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Paper | HVAC | Early | unit (ton) | 252,358 | 1.8% | 1.02 | 15 | \$27,946 | 89% | 0.09 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Paper | HVAC | New | unit (ton) | 252,358 | 0.5% | 0.31 | 15 | \$17,304 | 89% | 0.04 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Paper | HVAC | ROB | unit (ton) | 252,358 | 1.8% | 1.02 | 15 | \$13,437 | 89% | 0.18 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Paper | HVAC | Early | unit (ton) | 252,358 | 2.1% | 1.21 | 15 | \$25,704 | 89% | 0.12 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Paper | HVAC | New | unit (ton) | 252,358 | 0.8% | 0.44 | 15 | \$10,314 | 89% | 0.10 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Paper | HVAC | ROB | unit (ton) | 252,358 | 0.8% | 0.44 | 15 | \$10,314 | 89% | 0.10 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Paper | HVAC | Early | unit (ton) | 252,358 | 2.4% | 1.37 | 15 | \$21,785 | 89% | 0.15 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Paper | HVAC | New | unit (ton) | 252,358 | 0.9% | 0.51 | 15 | \$5,482 | 89% | 0.22 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Paper | HVAC | ROB | unit (ton) | 252,358 | 2.4% | 1.37 | 15 | \$3,908 | 89% | 0.78 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Paper | HVAC | Early | unit (ton) | 252,358 | 1.8% | 1.03 | 15 | \$21,566 | 89% | 0.12 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Paper | HVAC | New | unit (ton) | 252,358 | 0.7% | 0.39 | 15 | \$6,039 | 89% | 0.16 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Paper | HVAC | ROB | unit (ton) | 252,358 | 1.8% | 1.03 | 15 | \$4,784 | 89% | 0.50 |
| FE-Penn Power | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Paper | HVAC | Existing | building | 252,358 | 2.9% | 1.48 | 5 | \$2,677 | 55% | 0.56 |
| FE-Penn Power | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Paper | HVAC | New | building | 252,358 | 0.6% | 0.59 | 5 | \$1,606 | 51% | 0.27 |
| FE-Penn Power | Improved Controls - HVAC | Mfg: Paper | HVAC | Existing | end use | 252,358 | 21% | 7.57 | 10 | \$2,653 | 76% | 3.21 |
| FE-Penn Power | Improved Controls - HVAC | Mfg: Paper | HVAC | New | end use | 252,358 | 21% | 7.57 | 10 | \$2,653 | 76% | 3.21 |
| FE-Penn Power | Outside Air Economizer | Mfg: Paper | HVAC | Existing | building | 252,358 | 1.1% | 0.71 | 10 | \$927,210 | 82% | 0.00 |
| FE-Penn Power | Outside Air Economizer | Mfg: Paper | HVAC | New | building | 252,358 | 1.1% | 0.71 | 10 | \$927,210 | 82% | 0.00 |
| FE-Penn Power | Recommissioning | Mfg: Paper | HVAC | Existing | end use | 252,358 | 5.0% | 1.81 | 10 | \$346 | 88% | 3.96 |
| FE-Penn Power | Recommissioning | Mfg: Paper | HVAC | New | end use | 252,358 | 5.0% | 1.81 | 10 | \$346 | 88% | 3.96 |
| FE-Penn Power | Room AC (with louvered sides) | Mfg: Paper | HVAC | Early | unit (ton) | 252,358 | 7.7% | 4.38 | 9 | \$19,788 | 78% | 0.36 |
| FE-Penn Power | Room AC (with louvered sides) | Mfg: Paper | HVAC | New | unit (ton) | 252,358 | 2.6% | 1.46 | 9 | \$1,083 | 78% | 1.66 |
| FE-Penn Power | Room AC (with louvered sides) | Mfg: Paper | HVAC | ROB | unit (ton) | 252,358 | 2.6% | 1.46 | 9 | \$1,083 | 78% | 1.66 |
| FE-Penn Power | Variable Refrigerant Flow Heat Pump | Mfg: Paper | HVAC | New | measure | 252,358 | 0.1% | 0.07 | 13 | \$1,858 | 43% | 0.08 |
| FE-Penn Power | Variable Refrigerant Flow Heat Pump | Mfg: Paper | HVAC | ROB | measure | 252,358 | 0.1% | 0.07 | 13 | \$1,858 | 43% | 0.08 |
| FE-Penn Power | VFD on Cooling Tower Fan | Mfg: Paper | HVAC | Early | motor | 252,358 | 21% | 15.91 | 15 | \$11,653 | 15% | 2.07 |
| FE-Penn Power | VFD on Cooling Tower Fan | Mfg: Paper | HVAC | New | motor | 252,358 | 22% | 15.91 | 15 | \$11,875 | 15% | 2.06 |
| FE-Penn Power | VFD on Cooling Tower Fan | Mfg: Paper | HVAC | ROB | motor | 252,358 | 22% | 15.91 | 15 | \$11,875 | 15% | 2.06 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Mfg: Paper | HVAC | Existing | building | 252,358 | 19% | 12.07 | 15 | \$179,519 | 26% | 0.15 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Mfg: Paper | HVAC | New | building | 252,358 | 0.6% | 0.39 | 15 | \$137,699 | 94% | 0.01 |
| FE-Penn Power | Water Source Heat Pump (4 ton) | Mfg: Paper | HVAC | Early | heat pump | 252,358 | 1.5% | 0.87 | 15 | \$42,900 | 28% | 0.05 |
| FE-Penn Power | Water Source Heat Pump (4 ton) | Mfg: Paper | HVAC | New | heat pump | 252,358 | 1.1% | 0.64 | 15 | \$20,908 | 28% | 0.07 |
| FE-Penn Power | Water Source Heat Pump (4 ton) | Mfg: Paper | HVAC | ROB | heat pump | 252,358 | 1.1% | 0.64 | 15 | \$20,908 | 28% | 0.07 |
| FE-Penn Power | Efficient Metal Halide (High Bay) | Mfg: Paper | Lighting | Early | end use | 256,292 | 42% | 0.00 | 9 | \$40,049 | 53% | 0.67 |
| FE-Penn Power | Efficient Metal Halide (High Bay) | Mfg: Paper | Lighting | New | end use | 256,292 | 41% | 0.00 | 13 | \$1,069,713 | 61% | 0.04 |
| FE-Penn Power | Efficient Metal Halide (High Bay) | Mfg: Paper | Lighting | ROB | end use | 256,292 | 41% | 0.00 | 13 | \$817,534 | 61% | 0.05 |
| FE-Penn Power | Induction (High Bay) | Mfg: Paper | Lighting | Early | end use | 256,292 | 94% | 0.00 | 13 | \$119,162 | 95% | 0.68 |
| FE-Penn Power | Induction (High Bay) | Mfg: Paper | Lighting | New | end use | 256,292 | 94% | 0.00 | 13 | \$111,565 | 95% | 0.72 |
| FE-Penn Power | Induction (High Bay) | Mfg: Paper | Lighting | ROB | end use | 256,292 | 94% | 0.00 | 13 | \$84,793 | 95% | 0.92 |
| FE-Penn Power | LED (High Bay) | Mfg: Paper | Lighting | Early | end use | 256,292 | 69% | 0.00 | 14 | \$140,271 | 95% | 0.47 |
| FE-Penn Power | LED (High Bay) | Mfg: Paper | Lighting | New | end use | 256,292 | 55% | 0.00 | 14 | \$155,697 | 95% | 0.35 |
| FE-Penn Power | LED (High Bay) | Mfg: Paper | Lighting | ROB | end use | 256,292 | 59% | 0.00 | 14 | \$102,586 | 95% | 0.54 |
| FE-Penn Power | Lighting Controls | Mfg: Paper | Lighting | Existing | end use | 256,292 | 20% | 0.00 | 6 | \$960,808 | 16% | 0.01 |
| FE-Penn Power | Lighting Controls | Mfg: Paper | Lighting | New | end use | 256,292 | 12% | 0.00 | 10 | \$1,278,189 | 11% | 0.01 |
| FE-Penn Power | Linear Fluorescent (High Bay) | Mfg: Paper | Lighting | Early | end use | 256,292 | 17% | 0.00 | 14 | \$29,325 | 98% | 0.54 |
| FE-Penn Power | Linear Fluorescent (High Bay) | Mfg: Paper | Lighting | New | end use | 256,292 | 13% | 0.00 | 14 | \$9,300 | 91% | 1.15 |
| FE-Penn Power | Linear Fluorescent (High Bay) | Mfg: Paper | Lighting | ROB | end use | 256,292 | 13% | 0.00 | 14 | \$5,954 | 91% | 1.66 |
| FE-Penn Power | Metal Halide (High Bay) | Mfg: Paper | Lighting | Early | end use | 256,292 | 62% | 0.00 | 13 | \$176,184 | 38% | 0.33 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---------------------------------------|------------|----------|----------|---------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Metal Halide (High Bay) | Mfg: Paper | Lighting | New | end use | 256,292 | 73% | 0.00 | 13 | \$42,123 | 38% | 1.30 |
| FE-Penn Power | Metal Halide (High Bay) | Mfg: Paper | Lighting | ROB | end use | 256,292 | 73% | 0.00 | 13 | \$32,014 | 38% | 1.59 |
| FE-Penn Power | Screw Base CFL | Mfg: Paper | Lighting | Early | end use | 256,292 | 80% | 0.00 | 7 | \$69,629 | 17% | 0.60 |
| FE-Penn Power | Screw Base CFL | Mfg: Paper | Lighting | New | end use | 256,292 | 73% | 0.00 | 9 | \$56,904 | 18% | 0.79 |
| FE-Penn Power | Screw Base CFL | Mfg: Paper | Lighting | ROB | end use | 256,292 | 73% | 0.00 | 9 | \$47,628 | 17% | 0.91 |
| FE-Penn Power | Screw Base LED | Mfg: Paper | Lighting | Early | end use | 256,292 | 76% | 0.00 | 9 | \$42,732 | 21% | 1.06 |
| FE-Penn Power | Screw Base LED | Mfg: Paper | Lighting | New | end use | 256,292 | 77% | 0.00 | 9 | \$23,804 | 20% | 1.61 |
| FE-Penn Power | Screw Base LED | Mfg: Paper | Lighting | ROB | end use | 256,292 | 77% | 0.00 | 9 | \$18,897 | 21% | 1.85 |
| FE-Penn Power | T8 High Performance Linear Florescent | Mfg: Paper | Lighting | Early | end use | 256,292 | 36% | 0.00 | 14 | \$24,525 | 71% | 1.22 |
| FE-Penn Power | T8 High Performance Linear Florescent | Mfg: Paper | Lighting | New | end use | 256,292 | 26% | 0.00 | 14 | \$8,774 | 76% | 2.05 |
| FE-Penn Power | T8 High Performance Linear Florescent | Mfg: Paper | Lighting | ROB | end use | 256,292 | 26% | 0.00 | 14 | \$6,669 | 76% | 2.42 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Paper | Motors | Early | end use | 387,310 | 0.9% | 0.50 | 15 | \$5,917 | 81% | 0.28 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Paper | Motors | New | end use | 387,310 | 0.9% | 0.50 | 15 | \$5,917 | 81% | 0.28 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Paper | Motors | ROB | end use | 387,310 | 0.9% | 0.50 | 15 | \$5,917 | 81% | 0.28 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Paper | Motors | Early | end use | 387,310 | 0.8% | 0.41 | 15 | \$3,593 | 73% | 0.37 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Paper | Motors | New | end use | 387,310 | 0.8% | 0.41 | 15 | \$3,593 | 73% | 0.37 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Paper | Motors | ROB | end use | 387,310 | 0.8% | 0.41 | 15 | \$3,593 | 73% | 0.38 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Paper | Motors | Early | end use | 387,310 | 0.5% | 0.25 | 15 | \$1,377 | 81% | 0.57 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Paper | Motors | New | end use | 387,310 | 0.5% | 0.25 | 15 | \$1,377 | 81% | 0.57 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Paper | Motors | ROB | end use | 387,310 | 0.5% | 0.25 | 15 | \$1,377 | 81% | 0.57 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Paper | Motors | Early | end use | 387,310 | 0.4% | 0.22 | 15 | \$454 | 73% | 1.32 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Paper | Motors | New | end use | 387,310 | 0.4% | 0.22 | 15 | \$454 | 73% | 1.33 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Paper | Motors | ROB | end use | 387,310 | 0.4% | 0.22 | 15 | \$454 | 73% | 1.36 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Paper | Motors | Early | end use | 387,310 | 0.9% | 0.51 | 15 | \$681 | 47% | 1.88 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Paper | Motors | New | end use | 387,310 | 0.9% | 0.51 | 15 | \$681 | 47% | 1.86 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Paper | Motors | ROB | end use | 387,310 | 0.9% | 0.51 | 15 | \$681 | 47% | 1.87 |
| FE-Penn Power | Facility Energy Management | Mfg: Paper | Motors | Existing | end use | 387,310 | 1.8% | 1.02 | 2 | \$149 | 77% | 1.09 |
| FE-Penn Power | Facility Energy Management | Mfg: Paper | Motors | New | end use | 387,310 | 1.9% | 1.02 | 2 | \$149 | 77% | 1.09 |
| FE-Penn Power | HE Motors | Mfg: Paper | Motors | Early | end use | 387,310 | 2.0% | 1.13 | 15 | \$2,306 | 38% | 1.34 |
| FE-Penn Power | HE Motors | Mfg: Paper | Motors | New | end use | 387,310 | 2.0% | 1.13 | 15 | \$2,306 | 38% | 1.34 |
| FE-Penn Power | HE Motors | Mfg: Paper | Motors | ROB | end use | 387,310 | 2.0% | 1.13 | 15 | \$2,306 | 38% | 1.34 |
| FE-Penn Power | High-Efficiency Ventilation System | Mfg: Paper | Motors | Early | end use | 387,310 | 5.7% | 3.13 | 10 | \$24,204 | 73% | 0.31 |
| FE-Penn Power | High-Efficiency Ventilation System | Mfg: Paper | Motors | New | end use | 387,310 | 5.7% | 3.13 | 10 | \$24,204 | 73% | 0.31 |
| FE-Penn Power | High-Efficiency Ventilation System | Mfg: Paper | Motors | ROB | end use | 387,310 | 5.7% | 3.13 | 10 | \$24,204 | 73% | 0.31 |
| FE-Penn Power | Improved Controls - Motors | Mfg: Paper | Motors | Existing | end use | 387,310 | 4.0% | 2.19 | 10 | \$1,683 | 73% | 2.03 |
| FE-Penn Power | Improved Controls - Motors | Mfg: Paper | Motors | New | end use | 387,310 | 4.0% | 2.19 | 10 | \$1,683 | 73% | 2.03 |
| FE-Penn Power | Material Handling | Mfg: Paper | Motors | Early | end use | 387,310 | 18% | 10.19 | 10 | \$18,722 | 77% | 1.10 |
| FE-Penn Power | Material Handling | Mfg: Paper | Motors | New | end use | 387,310 | 18% | 10.19 | 10 | \$18,722 | 77% | 1.10 |
| FE-Penn Power | Material Handling | Mfg: Paper | Motors | ROB | end use | 387,310 | 18% | 10.19 | 10 | \$18,722 | 77% | 1.10 |
| FE-Penn Power | Material Handling VFD | Mfg: Paper | Motors | Early | end use | 387,310 | 16% | 8.92 | 10 | \$12,949 | 77% | 1.32 |
| FE-Penn Power | Material Handling VFD | Mfg: Paper | Motors | New | end use | 387,310 | 16% | 8.92 | 10 | \$12,949 | 77% | 1.32 |
| FE-Penn Power | Material Handling VFD | Mfg: Paper | Motors | ROB | end use | 387,310 | 16% | 8.92 | 10 | \$12,949 | 77% | 1.32 |
| FE-Penn Power | Motor Management Plan | Mfg: Paper | Motors | Existing | end use | 387,310 | 2.9% | 1.60 | 10 | \$790 | 73% | 2.60 |
| FE-Penn Power | Motor Management Plan | Mfg: Paper | Motors | New | end use | 387,310 | 2.9% | 1.60 | 10 | \$790 | 73% | 2.60 |
| FE-Penn Power | Motors Other | Mfg: Paper | Motors | Existing | end use | 387,310 | 1.1% | 0.61 | 15 | \$77 | 83% | 5.48 |
| FE-Penn Power | Motors Other | Mfg: Paper | Motors | New | end use | 387,310 | 1.1% | 0.61 | 15 | \$77 | 83% | 5.48 |
| FE-Penn Power | Motors: Rewind 101-200 HP | Mfg: Paper | Motors | Existing | end use | 387,310 | 0.6% | 0.31 | 10 | \$489 | 27% | 1.24 |
| FE-Penn Power | Motors: Rewind 101-200 HP | Mfg: Paper | Motors | New | end use | 387,310 | 0.6% | 0.31 | 10 | \$489 | 27% | 1.23 |
| FE-Penn Power | Motors: Rewind 201-500 HP | Mfg: Paper | Motors | Existing | end use | 387,310 | 0.5% | 0.30 | 8 | \$308 | 27% | 1.46 |
| FE-Penn Power | Motors: Rewind 201-500 HP | Mfg: Paper | Motors | New | end use | 387,310 | 0.6% | 0.30 | 8 | \$308 | 27% | 1.48 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|--|------------|------------------------|----------|---------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Motors: Rewind 20-50 HP | Mfg: Paper | Motors | Existing | end use | 387,310 | 1.0% | 0.57 | 11 | \$1,438 | 42% | 0.91 |
| FE-Penn Power | Motors: Rewind 20-50 HP | Mfg: Paper | Motors | New | end use | 387,310 | 1.0% | 0.57 | 11 | \$1,438 | 42% | 0.92 |
| FE-Penn Power | Motors: Rewind 500+ HP | Mfg: Paper | Motors | Existing | end use | 387,310 | 0.6% | 0.31 | 8 | \$220 | 11% | 1.85 |
| FE-Penn Power | Motors: Rewind 500+ HP | Mfg: Paper | Motors | New | end use | 387,310 | 0.6% | 0.31 | 8 | \$220 | 11% | 1.84 |
| FE-Penn Power | Motors: Rewind 51-100 HP | Mfg: Paper | Motors | Existing | end use | 387,310 | 0.6% | 0.33 | 9 | \$710 | 42% | 0.92 |
| FE-Penn Power | Motors: Rewind 51-100 HP | Mfg: Paper | Motors | New | end use | 387,310 | 0.6% | 0.33 | 9 | \$710 | 42% | 0.92 |
| FE-Penn Power | Paper: Large Material Handling | Mfg: Paper | Motors | Early | end use | 387,310 | 9.7% | 5.39 | 10 | \$29,013 | 64% | 0.44 |
| FE-Penn Power | Paper: Large Material Handling | Mfg: Paper | Motors | New | end use | 387,310 | 9.7% | 5.39 | 10 | \$29,013 | 64% | 0.44 |
| FE-Penn Power | Paper: Large Material Handling | Mfg: Paper | Motors | ROB | end use | 387,310 | 9.7% | 5.39 | 10 | \$29,013 | 64% | 0.44 |
| FE-Penn Power | Paper: Material Handling | Mfg: Paper | Motors | Early | end use | 387,310 | 13% | 7.26 | 10 | \$32,640 | 64% | 0.51 |
| FE-Penn Power | Paper: Material Handling | Mfg: Paper | Motors | New | end use | 387,310 | 13% | 7.26 | 10 | \$32,640 | 64% | 0.51 |
| FE-Penn Power | Paper: Material Handling | Mfg: Paper | Motors | ROB | end use | 387,310 | 13% | 7.26 | 10 | \$32,640 | 64% | 0.51 |
| FE-Penn Power | Paper: Premium Control Large Material | Mfg: Paper | Motors | Existing | end use | 387,310 | 19% | 10.37 | 10 | \$31,914 | 69% | 0.72 |
| FE-Penn Power | Paper: Premium Control Large Material | Mfg: Paper | Motors | New | end use | 387,310 | 19% | 10.37 | 10 | \$31,914 | 69% | 0.72 |
| FE-Penn Power | Switch from Belt drive to Direct Drive | Mfg: Paper | Motors | Early | end use | 387,310 | 7.5% | 4.15 | 12 | \$6,214 | 30% | 1.45 |
| FE-Penn Power | Switch from Belt drive to Direct Drive | Mfg: Paper | Motors | New | end use | 387,310 | 7.5% | 4.15 | 12 | \$6,214 | 30% | 1.45 |
| FE-Penn Power | Switch from Belt drive to Direct Drive | Mfg: Paper | Motors | ROB | end use | 387,310 | 7.5% | 4.15 | 12 | \$6,214 | 30% | 1.45 |
| FE-Penn Power | Synchronous Belts | Mfg: Paper | Motors | Early | end use | 387,310 | 1.2% | 0.64 | 10 | \$571 | 30% | 1.86 |
| FE-Penn Power | Synchronous Belts | Mfg: Paper | Motors | New | end use | 387,310 | 1.2% | 0.64 | 10 | \$571 | 30% | 1.86 |
| FE-Penn Power | Synchronous Belts | Mfg: Paper | Motors | ROB | end use | 387,310 | 1.2% | 0.64 | 10 | \$571 | 30% | 1.86 |
| FE-Penn Power | Bldg Improvements | Mfg: Paper | Other | Existing | end use | 71,225 | 16% | 1.37 | 15 | \$1,553 | 72% | 2.31 |
| FE-Penn Power | Bldg Improvements | Mfg: Paper | Other | New | end use | 71,225 | 16% | 1.37 | 15 | \$1,553 | 72% | 2.31 |
| FE-Penn Power | Energy Project Management | Mfg: Paper | Other | Existing | end use | 71,225 | 29% | 2.46 | 11 | \$2,542 | 63% | 1.95 |
| FE-Penn Power | Energy Project Management | Mfg: Paper | Other | New | end use | 71,225 | 29% | 2.46 | 11 | \$2,542 | 63% | 1.95 |
| FE-Penn Power | Facility Energy Management | Mfg: Paper | Other | Existing | end use | 71,225 | 1.9% | 0.16 | 2 | \$27 | 76% | 1.06 |
| FE-Penn Power | Facility Energy Management | Mfg: Paper | Other | New | end use | 71,225 | 1.8% | 0.16 | 2 | \$27 | 76% | 1.06 |
| FE-Penn Power | Integrated Plant Energy Management | Mfg: Paper | Other | Existing | end use | 71,225 | 50% | 4.24 | 11 | \$7,020 | 48% | 1.41 |
| FE-Penn Power | Integrated Plant Energy Management | Mfg: Paper | Other | New | end use | 71,225 | 50% | 4.24 | 11 | \$7,020 | 48% | 1.41 |
| FE-Penn Power | Plant Energy Management | Mfg: Paper | Other | Existing | end use | 71,225 | 12% | 1.02 | 10 | \$179 | 55% | 3.90 |
| FE-Penn Power | Plant Energy Management | Mfg: Paper | Other | New | end use | 71,225 | 12% | 1.02 | 10 | \$179 | 55% | 3.90 |
| FE-Penn Power | Transformers | Mfg: Paper | Other | Early | end use | 71,225 | 1.6% | 0.14 | 15 | \$228 | 34% | 1.72 |
| FE-Penn Power | Transformers | Mfg: Paper | Other | New | end use | 71,225 | 1.6% | 0.14 | 15 | \$228 | 34% | 1.72 |
| FE-Penn Power | Transformers | Mfg: Paper | Other | ROB | end use | 71,225 | 1.6% | 0.14 | 15 | \$228 | 34% | 1.71 |
| FE-Penn Power | Air Compressor Demand Reduction | Mfg: Paper | Process Air Compressor | Existing | end use | 11,672 | 26% | 0.39 | 10 | \$175 | 40% | 2.80 |
| FE-Penn Power | Air Compressor Demand Reduction | Mfg: Paper | Process Air Compressor | New | end use | 11,672 | 26% | 0.39 | 10 | \$175 | 40% | 2.80 |
| FE-Penn Power | Air Compressor Equipment | Mfg: Paper | Process Air Compressor | Early | end use | 11,672 | 39% | 0.59 | 10 | \$212 | 56% | 3.08 |
| FE-Penn Power | Air Compressor Equipment | Mfg: Paper | Process Air Compressor | New | end use | 11,672 | 39% | 0.59 | 10 | \$212 | 56% | 3.08 |
| FE-Penn Power | Air Compressor Equipment | Mfg: Paper | Process Air Compressor | ROB | end use | 11,672 | 39% | 0.59 | 10 | \$212 | 56% | 3.08 |
| FE-Penn Power | Air Compressor Optimization | Mfg: Paper | Process Air Compressor | Existing | end use | 11,672 | 39% | 0.60 | 10 | \$509 | 42% | 1.99 |
| FE-Penn Power | Air Compressor Optimization | Mfg: Paper | Process Air Compressor | New | end use | 11,672 | 39% | 0.60 | 10 | \$509 | 42% | 1.99 |
| FE-Penn Power | Facility Energy Management | Mfg: Paper | Process Air Compressor | Existing | end use | 11,672 | 1.9% | 0.03 | 2 | \$4.5 | 50% | 1.08 |
| FE-Penn Power | Facility Energy Management | Mfg: Paper | Process Air Compressor | New | end use | 11,672 | 1.9% | 0.03 | 2 | \$4.5 | 50% | 1.08 |
| FE-Penn Power | HE Compressor motors | Mfg: Paper | Process Air Compressor | Early | end use | 11,672 | 1.1% | 0.02 | 15 | \$44 | 56% | 1.17 |
| FE-Penn Power | HE Compressor motors | Mfg: Paper | Process Air Compressor | New | end use | 11,672 | 1.1% | 0.02 | 15 | \$44 | 56% | 1.17 |
| FE-Penn Power | HE Compressor motors | Mfg: Paper | Process Air Compressor | ROB | end use | 11,672 | 1.1% | 0.02 | 15 | \$44 | 56% | 1.17 |
| FE-Penn Power | Improved Controls - Air Compressor | Mfg: Paper | Process Air Compressor | Existing | end use | 11,672 | 41% | 0.62 | 10 | \$208 | 19% | 3.15 |
| FE-Penn Power | Improved Controls - Air Compressor | Mfg: Paper | Process Air Compressor | New | end use | 11,672 | 41% | 0.62 | 10 | \$208 | 19% | 3.15 |
| FE-Penn Power | Low Pressure-drop Filters | Mfg: Paper | Process Air Compressor | Existing | end use | 11,672 | 1.8% | 0.03 | 10 | \$132 | 46% | 0.53 |
| FE-Penn Power | Low Pressure-drop Filters | Mfg: Paper | Process Air Compressor | New | end use | 11,672 | 1.9% | 0.03 | 10 | \$132 | 46% | 0.53 |
| FE-Penn Power | Outside Air Intake | Mfg: Paper | Process Air Compressor | Existing | end use | 11,672 | 1.4% | 0.02 | 10 | \$77 | 37% | 0.68 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---------------------------------------|------------|------------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Outside Air Intake | Mfg: Paper | Process Air Compressor | New | end use | 11,672 | 1.4% | 0.02 | 10 | \$77 | 37% | 0.68 |
| FE-Penn Power | Receiver Capacity Addition | Mfg: Paper | Process Air Compressor | Existing | end use | 11,672 | 6.0% | 0.09 | 10 | \$217 | 28% | 0.94 |
| FE-Penn Power | Receiver Capacity Addition | Mfg: Paper | Process Air Compressor | New | end use | 11,672 | 5.9% | 0.09 | 10 | \$217 | 28% | 0.94 |
| FE-Penn Power | Refrigerated Cycling Dryers | Mfg: Paper | Process Air Compressor | Early | end use | 11,672 | 1.7% | 0.03 | 10 | \$27 | 16% | 1.74 |
| FE-Penn Power | Refrigerated Cycling Dryers | Mfg: Paper | Process Air Compressor | New | end use | 11,672 | 1.7% | 0.03 | 10 | \$27 | 16% | 1.73 |
| FE-Penn Power | Refrigerated Cycling Dryers | Mfg: Paper | Process Air Compressor | ROB | end use | 11,672 | 1.7% | 0.03 | 10 | \$27 | 16% | 1.73 |
| FE-Penn Power | VFD Controlled Compressor | Mfg: Paper | Process Air Compressor | Early | end use | 11,672 | 24% | 0.36 | 10 | \$1,149 | 22% | 0.74 |
| FE-Penn Power | VFD Controlled Compressor | Mfg: Paper | Process Air Compressor | New | end use | 11,672 | 24% | 0.36 | 10 | \$1,149 | 22% | 0.74 |
| FE-Penn Power | VFD Controlled Compressor | Mfg: Paper | Process Air Compressor | ROB | end use | 11,672 | 24% | 0.36 | 10 | \$1,149 | 22% | 0.74 |
| FE-Penn Power | Zero Loss Condensate Drain | Mfg: Paper | Process Air Compressor | Early | end use | 11,672 | 1.9% | 0.03 | 10 | \$67 | 28% | 0.95 |
| FE-Penn Power | Zero Loss Condensate Drain | Mfg: Paper | Process Air Compressor | New | end use | 11,672 | 1.9% | 0.03 | 10 | \$67 | 28% | 0.95 |
| FE-Penn Power | Zero Loss Condensate Drain | Mfg: Paper | Process Air Compressor | ROB | end use | 11,672 | 1.8% | 0.03 | 10 | \$67 | 28% | 0.95 |
| FE-Penn Power | Cooling Tower Optimization | Mfg: Paper | Process Cooling | Existing | building | 43,792 | 20% | 3.63 | 10 | \$269 | 15% | 4.68 |
| FE-Penn Power | Equipment: Chillers | Mfg: Paper | Process Cooling | Early | end use | 43,792 | 18% | 1.63 | 15 | \$2,055 | 46% | 1.53 |
| FE-Penn Power | Equipment: Chillers | Mfg: Paper | Process Cooling | New | end use | 43,792 | 18% | 1.63 | 15 | \$2,055 | 46% | 1.53 |
| FE-Penn Power | Equipment: Chillers | Mfg: Paper | Process Cooling | ROB | end use | 43,792 | 18% | 1.63 | 15 | \$2,055 | 46% | 1.53 |
| FE-Penn Power | Facility Energy Management | Mfg: Paper | Process Cooling | Existing | end use | 43,792 | 1.9% | 0.17 | 2 | \$17 | 59% | 1.15 |
| FE-Penn Power | Facility Energy Management | Mfg: Paper | Process Cooling | New | end use | 43,792 | 1.9% | 0.17 | 2 | \$17 | 59% | 1.15 |
| FE-Penn Power | Improved Controls - Process Cooling | Mfg: Paper | Process Cooling | Existing | end use | 43,792 | 6.0% | 0.55 | 10 | \$2,312 | 56% | 0.40 |
| FE-Penn Power | Improved Controls - Process Cooling | Mfg: Paper | Process Cooling | New | end use | 43,792 | 6.0% | 0.55 | 10 | \$2,312 | 56% | 0.40 |
| FE-Penn Power | VFD on Cooling Tower Fan | Mfg: Paper | Process Cooling | Early | motor | 43,792 | 21% | 2.76 | 15 | \$2,022 | 20% | 1.93 |
| FE-Penn Power | VFD on Cooling Tower Fan | Mfg: Paper | Process Cooling | New | motor | 43,792 | 22% | 2.76 | 15 | \$2,061 | 20% | 1.92 |
| FE-Penn Power | VFD on Cooling Tower Fan | Mfg: Paper | Process Cooling | ROB | motor | 43,792 | 22% | 2.76 | 15 | \$2,061 | 20% | 1.92 |
| FE-Penn Power | Improved Controls - Process Heating | Mfg: Paper | Process Heating | Existing | end use | 184,604 | 17% | 4.34 | 10 | \$2,121 | 77% | 2.58 |
| FE-Penn Power | Improved Controls - Process Heating | Mfg: Paper | Process Heating | New | end use | 184,604 | 17% | 4.34 | 10 | \$2,121 | 77% | 2.58 |
| FE-Penn Power | Process Heat O&M | Mfg: Paper | Process Heating | Existing | end use | 184,604 | 16% | 4.10 | 2 | \$1,282 | 77% | 0.85 |
| FE-Penn Power | Process Heat O&M | Mfg: Paper | Process Heating | New | end use | 184,604 | 16% | 4.10 | 2 | \$1,282 | 77% | 0.85 |
| FE-Penn Power | Facility Energy Management | Mfg: Paper | Process Other | Existing | end use | 92,607 | 1.9% | 0.24 | 2 | \$36 | 73% | 1.06 |
| FE-Penn Power | Facility Energy Management | Mfg: Paper | Process Other | New | end use | 92,607 | 1.8% | 0.24 | 2 | \$36 | 73% | 1.06 |
| FE-Penn Power | Kraft: Efficient Agitator | Mfg: Paper | Process Other | Early | end use | 92,607 | 50% | 6.50 | 10 | \$3,880 | 22% | 2.37 |
| FE-Penn Power | Kraft: Efficient Agitator | Mfg: Paper | Process Other | New | end use | 92,607 | 50% | 6.50 | 10 | \$3,880 | 22% | 2.37 |
| FE-Penn Power | Kraft: Efficient Agitator | Mfg: Paper | Process Other | ROB | end use | 92,607 | 50% | 6.50 | 10 | \$3,880 | 22% | 2.37 |
| FE-Penn Power | Kraft: Effluent Treatment System | Mfg: Paper | Process Other | Early | end use | 92,607 | 15% | 1.95 | 10 | \$1,031 | 22% | 2.52 |
| FE-Penn Power | Kraft: Effluent Treatment System | Mfg: Paper | Process Other | New | end use | 92,607 | 15% | 1.95 | 10 | \$1,031 | 22% | 2.52 |
| FE-Penn Power | Kraft: Effluent Treatment System | Mfg: Paper | Process Other | ROB | end use | 92,607 | 15% | 1.95 | 10 | \$1,031 | 22% | 2.52 |
| FE-Penn Power | Mech Pulp: Premium Process | Mfg: Paper | Process Other | Early | end use | 92,607 | 0.2% | 0.02 | 5 | \$18 | 31% | 1.19 |
| FE-Penn Power | Mech Pulp: Premium Process | Mfg: Paper | Process Other | New | end use | 92,607 | 0.2% | 0.02 | 5 | \$18 | 31% | 1.19 |
| FE-Penn Power | Mech Pulp: Premium Process | Mfg: Paper | Process Other | ROB | end use | 92,607 | 0.2% | 0.02 | 5 | \$18 | 31% | 1.20 |
| FE-Penn Power | Mech Pulp: Refiner Plate Improvement | Mfg: Paper | Process Other | Early | end use | 92,607 | 0.4% | 0.06 | 1 | \$15 | 31% | 0.54 |
| FE-Penn Power | Mech Pulp: Refiner Plate Improvement | Mfg: Paper | Process Other | New | end use | 92,607 | 0.4% | 0.06 | 1 | \$15 | 31% | 0.54 |
| FE-Penn Power | Mech Pulp: Refiner Plate Improvement | Mfg: Paper | Process Other | ROB | end use | 92,607 | 0.4% | 0.06 | 1 | \$15 | 31% | 0.54 |
| FE-Penn Power | Mech Pulp: Refiner Replacement | Mfg: Paper | Process Other | Early | end use | 92,607 | 10% | 1.30 | 12 | \$5,463 | 31% | 0.62 |
| FE-Penn Power | Mech Pulp: Refiner Replacement | Mfg: Paper | Process Other | New | end use | 92,607 | 10% | 1.30 | 12 | \$5,463 | 31% | 0.62 |
| FE-Penn Power | Mech Pulp: Refiner Replacement | Mfg: Paper | Process Other | ROB | end use | 92,607 | 10% | 1.30 | 12 | \$5,463 | 31% | 0.62 |
| FE-Penn Power | Paper: Efficient Pulp Screen | Mfg: Paper | Process Other | Early | end use | 92,607 | 15% | 1.95 | 10 | \$2,514 | 31% | 1.45 |
| FE-Penn Power | Paper: Efficient Pulp Screen | Mfg: Paper | Process Other | New | end use | 92,607 | 15% | 1.95 | 10 | \$2,514 | 31% | 1.45 |
| FE-Penn Power | Paper: Efficient Pulp Screen | Mfg: Paper | Process Other | ROB | end use | 92,607 | 15% | 1.95 | 10 | \$2,514 | 31% | 1.45 |
| FE-Penn Power | Adjustable speed drive on compressors | Mfg: Paper | Process Refrigeration | Early | end use | 22,496 | 12% | 0.38 | 10 | \$416 | 30% | 1.61 |
| FE-Penn Power | Adjustable speed drive on compressors | Mfg: Paper | Process Refrigeration | New | end use | 22,496 | 12% | 0.38 | 10 | \$416 | 30% | 1.61 |
| FE-Penn Power | Adjustable speed drive on compressors | Mfg: Paper | Process Refrigeration | ROB | end use | 22,496 | 12% | 0.38 | 10 | \$416 | 30% | 1.61 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|--------------------------------------|---------------|-----------------------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Cooling Tower Optimization | Mfg: Paper | Process Refrigeration | Existing | building | 22,496 | 20% | 1.87 | 10 | \$138 | 15% | 4.68 |
| FE-Penn Power | Optimization of operating parameters | Mfg: Paper | Process Refrigeration | Existing | end use | 22,496 | 13% | 0.43 | 3 | \$182 | 27% | 1.07 |
| FE-Penn Power | Optimization of operating parameters | Mfg: Paper | Process Refrigeration | New | end use | 22,496 | 13% | 0.43 | 3 | \$182 | 27% | 1.07 |
| FE-Penn Power | Synchronous Belts | Mfg: Paper | Process Refrigeration | Early | end use | 22,496 | 1.2% | 0.04 | 10 | \$33 | 30% | 1.87 |
| FE-Penn Power | Synchronous Belts | Mfg: Paper | Process Refrigeration | New | end use | 22,496 | 1.2% | 0.04 | 10 | \$33 | 30% | 1.87 |
| FE-Penn Power | Synchronous Belts | Mfg: Paper | Process Refrigeration | ROB | end use | 22,496 | 1.2% | 0.04 | 10 | \$33 | 30% | 1.87 |
| FE-Penn Power | VFD on Cooling Tower Fan | Mfg: Paper | Process Refrigeration | Early | motor | 22,496 | 21% | 1.42 | 15 | \$1,039 | 20% | 1.93 |
| FE-Penn Power | VFD on Cooling Tower Fan | Mfg: Paper | Process Refrigeration | New | motor | 22,496 | 22% | 1.42 | 15 | \$1,059 | 20% | 1.92 |
| FE-Penn Power | VFD on Cooling Tower Fan | Mfg: Paper | Process Refrigeration | ROB | motor | 22,496 | 22% | 1.42 | 15 | \$1,059 | 20% | 1.92 |
| FE-Penn Power | Facility Energy Management | Mfg: Paper | Pumps | Existing | end use | 2,171,088 | 1.9% | 5.20 | 2 | \$837 | 69% | 1.13 |
| FE-Penn Power | Facility Energy Management | Mfg: Paper | Pumps | New | end use | 2,171,088 | 1.9% | 5.20 | 2 | \$837 | 69% | 1.13 |
| FE-Penn Power | HE Motors | Mfg: Paper | Pumps | Early | end use | 2,171,088 | 2.0% | 5.78 | 15 | \$12,925 | 73% | 1.32 |
| FE-Penn Power | HE Motors | Mfg: Paper | Pumps | New | end use | 2,171,088 | 2.0% | 5.78 | 15 | \$12,925 | 73% | 1.32 |
| FE-Penn Power | HE Motors | Mfg: Paper | Pumps | ROB | end use | 2,171,088 | 2.0% | 5.78 | 15 | \$12,925 | 73% | 1.32 |
| FE-Penn Power | Motor rewinds | Mfg: Paper | Pumps | Existing | end use | 2,171,088 | 0.6% | 1.68 | 9 | \$3,087 | 11% | 1.14 |
| FE-Penn Power | Motor rewinds | Mfg: Paper | Pumps | New | end use | 2,171,088 | 0.6% | 1.68 | 9 | \$3,087 | 11% | 1.15 |
| FE-Penn Power | Pump Equipment Upgrade | Mfg: Paper | Pumps | Early | end use | 2,171,088 | 20% | 56.49 | 12 | \$54,277 | 81% | 2.08 |
| FE-Penn Power | Pump Equipment Upgrade | Mfg: Paper | Pumps | New | end use | 2,171,088 | 20% | 56.49 | 12 | \$54,277 | 81% | 2.08 |
| FE-Penn Power | Pump Equipment Upgrade | Mfg: Paper | Pumps | ROB | end use | 2,171,088 | 20% | 56.49 | 12 | \$54,277 | 81% | 2.08 |
| FE-Penn Power | Pump System Optimization | Mfg: Paper | Pumps | Existing | end use | 2,171,088 | 8.7% | 24.56 | 12 | \$39,752 | 38% | 1.51 |
| FE-Penn Power | Pump System Optimization | Mfg: Paper | Pumps | New | end use | 2,171,088 | 8.7% | 24.56 | 12 | \$39,752 | 38% | 1.51 |
| FE-Penn Power | Synchronous Belts | Mfg: Paper | Pumps | Early | end use | 2,171,088 | 1.2% | 3.29 | 10 | \$3,199 | 61% | 1.83 |
| FE-Penn Power | Synchronous Belts | Mfg: Paper | Pumps | New | end use | 2,171,088 | 1.2% | 3.29 | 10 | \$3,199 | 61% | 1.83 |
| FE-Penn Power | Synchronous Belts | Mfg: Paper | Pumps | ROB | end use | 2,171,088 | 1.2% | 3.29 | 10 | \$3,199 | 61% | 1.83 |
| FE-Penn Power | Circulating Fans | Mfg: Plastics | Fans | Early | end use | 57,612 | 5.0% | 0.34 | 10 | \$351 | 68% | 1.94 |
| FE-Penn Power | Circulating Fans | Mfg: Plastics | Fans | New | end use | 57,612 | 5.0% | 0.34 | 10 | \$351 | 68% | 1.94 |
| FE-Penn Power | Circulating Fans | Mfg: Plastics | Fans | ROB | end use | 57,612 | 5.0% | 0.34 | 10 | \$351 | 68% | 1.94 |
| FE-Penn Power | Facility Energy Management | Mfg: Plastics | Fans | Existing | end use | 57,612 | 1.9% | 0.13 | 2 | \$22 | 77% | 1.11 |
| FE-Penn Power | Facility Energy Management | Mfg: Plastics | Fans | New | end use | 57,612 | 1.9% | 0.13 | 2 | \$22 | 77% | 1.11 |
| FE-Penn Power | HE Motors | Mfg: Plastics | Fans | Early | end use | 57,612 | 2.0% | 0.14 | 15 | \$343 | 77% | 1.37 |
| FE-Penn Power | HE Motors | Mfg: Plastics | Fans | New | end use | 57,612 | 2.0% | 0.14 | 15 | \$343 | 77% | 1.37 |
| FE-Penn Power | HE Motors | Mfg: Plastics | Fans | ROB | end use | 57,612 | 2.0% | 0.14 | 15 | \$343 | 77% | 1.37 |
| FE-Penn Power | Improved Controls - Fans | Mfg: Plastics | Fans | Existing | end use | 57,612 | 7.1% | 0.49 | 10 | \$223 | 88% | 2.98 |
| FE-Penn Power | Improved Controls - Fans | Mfg: Plastics | Fans | New | end use | 57,612 | 7.1% | 0.49 | 10 | \$223 | 88% | 2.98 |
| FE-Penn Power | Properly Sized Fans | Mfg: Plastics | Fans | Early | end use | 57,612 | 13% | 0.90 | 10 | \$1,180 | 41% | 1.65 |
| FE-Penn Power | Properly Sized Fans | Mfg: Plastics | Fans | New | end use | 57,612 | 13% | 0.90 | 10 | \$1,180 | 41% | 1.65 |
| FE-Penn Power | Properly Sized Fans | Mfg: Plastics | Fans | ROB | end use | 57,612 | 13% | 0.90 | 10 | \$1,180 | 41% | 1.65 |
| FE-Penn Power | Synchronous Belts | Mfg: Plastics | Fans | Early | end use | 57,612 | 1.2% | 0.08 | 10 | \$85 | 41% | 1.89 |
| FE-Penn Power | Synchronous Belts | Mfg: Plastics | Fans | New | end use | 57,612 | 1.2% | 0.08 | 10 | \$85 | 41% | 1.89 |
| FE-Penn Power | Synchronous Belts | Mfg: Plastics | Fans | ROB | end use | 57,612 | 1.2% | 0.08 | 10 | \$85 | 41% | 1.89 |
| FE-Penn Power | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Plastics | HVAC | Early | unit (ton) | 34,307 | 9.2% | 0.82 | 15 | \$6,252 | 28% | 0.28 |
| FE-Penn Power | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Plastics | HVAC | New | unit (ton) | 34,307 | 4.1% | 0.37 | 15 | \$1,515 | 28% | 0.50 |
| FE-Penn Power | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Plastics | HVAC | ROB | unit (ton) | 34,307 | 4.1% | 0.37 | 15 | \$1,515 | 28% | 0.50 |
| FE-Penn Power | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Plastics | HVAC | Early | unit (ton) | 34,307 | 12% | 1.10 | 15 | \$7,371 | 28% | 0.32 |
| FE-Penn Power | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Plastics | HVAC | New | unit (ton) | 34,307 | 7.7% | 0.68 | 15 | \$3,191 | 28% | 0.45 |
| FE-Penn Power | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Plastics | HVAC | ROB | unit (ton) | 34,307 | 7.7% | 0.68 | 15 | \$3,191 | 28% | 0.45 |
| FE-Penn Power | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Plastics | HVAC | Early | unit (ton) | 34,307 | 15% | 1.36 | 15 | \$8,489 | 29% | 0.34 |
| FE-Penn Power | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Plastics | HVAC | New | unit (ton) | 34,307 | 11% | 0.96 | 15 | \$4,866 | 29% | 0.42 |
| FE-Penn Power | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Plastics | HVAC | ROB | unit (ton) | 34,307 | 11% | 0.96 | 15 | \$4,866 | 29% | 0.42 |
| FE-Penn Power | >760k min 10.2 EER Air Conditioner | Mfg: Plastics | HVAC | Early | unit (ton) | 34,307 | 2.1% | 0.19 | 15 | \$10,888 | 35% | 0.04 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|---------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | >760k min 10.2 EER Air Conditioner | Mfg: Plastics | HVAC | New | unit (ton) | 34,307 | 2.8% | 0.25 | 15 | \$984 | 35% | 0.53 |
| FE-Penn Power | >760k min 10.2 EER Air Conditioner | Mfg: Plastics | HVAC | ROB | unit (ton) | 34,307 | 2.8% | 0.25 | 15 | \$984 | 35% | 0.53 |
| FE-Penn Power | 135-240k min 12 EER Air Conditioner | Mfg: Plastics | HVAC | Early | unit (ton) | 34,307 | 10% | 0.93 | 15 | \$11,790 | 35% | 0.17 |
| FE-Penn Power | 135-240k min 12 EER Air Conditioner | Mfg: Plastics | HVAC | New | unit (ton) | 34,307 | 5.8% | 0.51 | 15 | \$1,392 | 35% | 0.74 |
| FE-Penn Power | 135-240k min 12 EER Air Conditioner | Mfg: Plastics | HVAC | ROB | unit (ton) | 34,307 | 5.8% | 0.51 | 15 | \$1,392 | 35% | 0.74 |
| FE-Penn Power | 240k-760k min 11 EER Air Conditioner | Mfg: Plastics | HVAC | Early | unit (ton) | 34,307 | 5.2% | 0.46 | 15 | \$10,895 | 35% | 0.09 |
| FE-Penn Power | 240k-760k min 11 EER Air Conditioner | Mfg: Plastics | HVAC | New | unit (ton) | 34,307 | 5.3% | 0.48 | 15 | \$1,167 | 35% | 0.81 |
| FE-Penn Power | 240k-760k min 11 EER Air Conditioner | Mfg: Plastics | HVAC | ROB | unit (ton) | 34,307 | 5.3% | 0.48 | 15 | \$1,167 | 35% | 0.81 |
| FE-Penn Power | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Plastics | HVAC | Early | unit (ton) | 34,307 | 9.7% | 0.86 | 15 | \$12,072 | 35% | 0.16 |
| FE-Penn Power | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Plastics | HVAC | New | unit (ton) | 34,307 | 3.8% | 0.34 | 15 | \$1,722 | 35% | 0.42 |
| FE-Penn Power | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Plastics | HVAC | ROB | unit (ton) | 34,307 | 3.8% | 0.34 | 15 | \$1,722 | 35% | 0.42 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Mfg: Plastics | HVAC | Existing | building | 34,307 | 5.9% | 0.51 | 15 | \$103,945 | 71% | 0.01 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Mfg: Plastics | HVAC | New | building | 34,307 | 3.7% | 0.32 | 15 | \$98,803 | 94% | 0.01 |
| FE-Penn Power | Chiller Tuneup/Diagnostics | Mfg: Plastics | HVAC | Existing | building | 34,307 | 8.0% | 1.01 | 10 | \$87,602 | 59% | 0.02 |
| FE-Penn Power | Chiller Tuneup/Diagnostics | Mfg: Plastics | HVAC | New | building | 34,307 | 8.0% | 1.01 | 10 | \$87,602 | 59% | 0.02 |
| FE-Penn Power | Cooling Tower Optimization | Mfg: Plastics | HVAC | Existing | building | 34,307 | 20% | 2.46 | 10 | \$210 | 69% | 4.73 |
| FE-Penn Power | Duct Insulation, Add R8 | Mfg: Plastics | HVAC | Existing | building | 34,307 | 1.5% | 0.11 | 15 | \$273 | 18% | 0.94 |
| FE-Penn Power | Duct Insulation, Add R8 | Mfg: Plastics | HVAC | New | building | 34,307 | 1.5% | 0.11 | 15 | \$273 | 9% | 0.94 |
| FE-Penn Power | Ductless Heat Pump | Mfg: Plastics | HVAC | Early | heat pump | 34,307 | 0.8% | 0.06 | 15 | \$2,712 | 83% | 0.06 |
| FE-Penn Power | Ductless Heat Pump | Mfg: Plastics | HVAC | New | heat pump | 34,307 | 0.4% | 0.03 | 15 | \$788 | 83% | 0.10 |
| FE-Penn Power | Ductless Heat Pump | Mfg: Plastics | HVAC | ROB | heat pump | 34,307 | 0.4% | 0.03 | 15 | \$788 | 83% | 0.10 |
| FE-Penn Power | DX Coil Cleaning | Mfg: Plastics | HVAC | Existing | building | 34,307 | 13% | 1.57 | 1 | \$329 | 73% | 0.50 |
| FE-Penn Power | DX Coil Cleaning | Mfg: Plastics | HVAC | New | building | 34,307 | 13% | 1.57 | 1 | \$329 | 73% | 0.50 |
| FE-Penn Power | Efficient Unit Heating System | Mfg: Plastics | HVAC | Early | heater | 34,307 | 6.9% | 0.02 | 15 | \$1,852 | 83% | 0.52 |
| FE-Penn Power | Efficient Unit Heating System | Mfg: Plastics | HVAC | New | heater | 34,307 | 4.0% | 0.01 | 15 | \$1,263 | 83% | 0.44 |
| FE-Penn Power | Efficient Unit Heating System | Mfg: Plastics | HVAC | ROB | heater | 34,307 | 4.0% | 0.01 | 15 | \$1,263 | 83% | 0.44 |
| FE-Penn Power | Ground Source Heat Pump (Closed Loop) | Mfg: Plastics | HVAC | Early | heat pump | 34,307 | 1.3% | 0.10 | 15 | \$5,632 | 19% | 0.04 |
| FE-Penn Power | Ground Source Heat Pump (Closed Loop) | Mfg: Plastics | HVAC | New | heat pump | 34,307 | 1.0% | 0.08 | 15 | \$2,224 | 19% | 0.09 |
| FE-Penn Power | Ground Source Heat Pump (Closed Loop) | Mfg: Plastics | HVAC | ROB | heat pump | 34,307 | 1.0% | 0.08 | 15 | \$2,224 | 19% | 0.09 |
| FE-Penn Power | Ground Source Heat Pump (Open Loop) | Mfg: Plastics | HVAC | Early | heat pump | 34,307 | 1.3% | 0.10 | 15 | \$3,607 | 19% | 0.07 |
| FE-Penn Power | Ground Source Heat Pump (Open Loop) | Mfg: Plastics | HVAC | New | heat pump | 34,307 | 1.0% | 0.08 | 15 | \$76 | 19% | 1.92 |
| FE-Penn Power | Ground Source Heat Pump (Open Loop) | Mfg: Plastics | HVAC | ROB | heat pump | 34,307 | 1.0% | 0.08 | 15 | \$76 | 19% | 1.92 |
| FE-Penn Power | HE Air Cooled Chiller, 100 Tons | Mfg: Plastics | HVAC | Early | unit (ton) | 34,307 | 1.5% | 0.11 | 15 | \$39,908 | 89% | 0.01 |
| FE-Penn Power | HE Air Cooled Chiller, 100 Tons | Mfg: Plastics | HVAC | New | unit (ton) | 34,307 | 0.4% | 0.03 | 15 | \$5,814 | 89% | 0.01 |
| FE-Penn Power | HE Air Cooled Chiller, 100 Tons | Mfg: Plastics | HVAC | ROB | unit (ton) | 34,307 | 0.4% | 0.03 | 15 | \$5,814 | 89% | 0.01 |
| FE-Penn Power | HE Air Cooled Chiller, 150 Tons | Mfg: Plastics | HVAC | Early | unit (ton) | 34,307 | 1.4% | 0.11 | 15 | \$34,472 | 89% | 0.01 |
| FE-Penn Power | HE Air Cooled Chiller, 150 Tons | Mfg: Plastics | HVAC | New | unit (ton) | 34,307 | 0.3% | 0.02 | 15 | \$2,855 | 89% | 0.02 |
| FE-Penn Power | HE Air Cooled Chiller, 150 Tons | Mfg: Plastics | HVAC | ROB | unit (ton) | 34,307 | 0.3% | 0.02 | 15 | \$2,855 | 89% | 0.02 |
| FE-Penn Power | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Plastics | HVAC | Early | heat pump | 34,307 | 1.4% | 0.11 | 12 | \$1,470 | 81% | 0.15 |
| FE-Penn Power | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Plastics | HVAC | Early | heat pump | 34,307 | 1.1% | 0.09 | 12 | \$1,074 | 81% | 0.17 |
| FE-Penn Power | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Plastics | HVAC | New | heat pump | 34,307 | 1.0% | 0.08 | 12 | \$656 | 81% | 0.24 |
| FE-Penn Power | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Plastics | HVAC | New | heat pump | 34,307 | 0.8% | 0.06 | 12 | \$229 | 81% | 0.50 |
| FE-Penn Power | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Plastics | HVAC | ROB | heat pump | 34,307 | 1.0% | 0.08 | 12 | \$656 | 81% | 0.24 |
| FE-Penn Power | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Plastics | HVAC | ROB | heat pump | 34,307 | 0.8% | 0.06 | 12 | \$229 | 81% | 0.50 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Plastics | HVAC | Early | unit (ton) | 34,307 | 1.6% | 0.12 | 15 | \$3,167 | 89% | 0.09 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Plastics | HVAC | New | unit (ton) | 34,307 | 0.9% | 0.07 | 15 | \$1,053 | 89% | 0.16 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Plastics | HVAC | ROB | unit (ton) | 34,307 | 0.9% | 0.07 | 15 | \$1,053 | 89% | 0.16 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Plastics | HVAC | Early | unit (ton) | 34,307 | 1.4% | 0.11 | 15 | \$3,093 | 89% | 0.09 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Plastics | HVAC | New | unit (ton) | 34,307 | 1.0% | 0.08 | 15 | \$604 | 89% | 0.30 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Plastics | HVAC | ROB | unit (ton) | 34,307 | 1.4% | 0.11 | 15 | \$555 | 89% | 0.46 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|---------------|----------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Plastics | HVAC | Early | unit (ton) | 34,307 | 1.4% | 0.11 | 15 | \$3,660 | 89% | 0.07 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Plastics | HVAC | New | unit (ton) | 34,307 | 0.9% | 0.07 | 15 | \$1,541 | 89% | 0.11 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Plastics | HVAC | ROB | unit (ton) | 34,307 | 1.4% | 0.11 | 15 | \$1,395 | 89% | 0.19 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Plastics | HVAC | Early | unit (ton) | 34,307 | 1.4% | 0.11 | 15 | \$3,526 | 89% | 0.07 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Plastics | HVAC | New | unit (ton) | 34,307 | 0.9% | 0.07 | 15 | \$1,340 | 89% | 0.12 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Plastics | HVAC | ROB | unit (ton) | 34,307 | 1.4% | 0.11 | 15 | \$1,212 | 89% | 0.21 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Plastics | HVAC | Early | unit (ton) | 34,307 | 1.8% | 0.14 | 15 | \$3,799 | 89% | 0.09 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Plastics | HVAC | New | unit (ton) | 34,307 | 0.5% | 0.04 | 15 | \$2,352 | 89% | 0.04 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Plastics | HVAC | ROB | unit (ton) | 34,307 | 1.8% | 0.14 | 15 | \$1,827 | 89% | 0.18 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Plastics | HVAC | Early | unit (ton) | 34,307 | 2.1% | 0.17 | 15 | \$3,494 | 89% | 0.12 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Plastics | HVAC | New | unit (ton) | 34,307 | 0.8% | 0.06 | 15 | \$1,402 | 89% | 0.10 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Plastics | HVAC | ROB | unit (ton) | 34,307 | 0.8% | 0.06 | 15 | \$1,402 | 89% | 0.10 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Plastics | HVAC | Early | unit (ton) | 34,307 | 2.4% | 0.19 | 15 | \$2,962 | 89% | 0.15 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Plastics | HVAC | New | unit (ton) | 34,307 | 0.9% | 0.07 | 15 | \$745 | 89% | 0.22 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Plastics | HVAC | ROB | unit (ton) | 34,307 | 2.4% | 0.19 | 15 | \$531 | 89% | 0.78 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Plastics | HVAC | Early | unit (ton) | 34,307 | 1.8% | 0.14 | 15 | \$2,932 | 89% | 0.12 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Plastics | HVAC | New | unit (ton) | 34,307 | 0.7% | 0.05 | 15 | \$821 | 89% | 0.16 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Plastics | HVAC | ROB | unit (ton) | 34,307 | 1.8% | 0.14 | 15 | \$650 | 89% | 0.50 |
| FE-Penn Power | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Plastics | HVAC | Existing | building | 34,307 | 2.9% | 0.20 | 5 | \$364 | 55% | 0.56 |
| FE-Penn Power | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Plastics | HVAC | New | building | 34,307 | 0.6% | 0.08 | 5 | \$218 | 51% | 0.27 |
| FE-Penn Power | Improved Controls - HVAC | Mfg: Plastics | HVAC | Existing | end use | 34,307 | 21% | 1.03 | 10 | \$361 | 76% | 3.21 |
| FE-Penn Power | Improved Controls - HVAC | Mfg: Plastics | HVAC | New | end use | 34,307 | 21% | 1.03 | 10 | \$361 | 76% | 3.21 |
| FE-Penn Power | Outside Air Economizer | Mfg: Plastics | HVAC | Existing | building | 34,307 | 1.1% | 0.10 | 10 | \$126,051 | 82% | 0.00 |
| FE-Penn Power | Outside Air Economizer | Mfg: Plastics | HVAC | New | building | 34,307 | 1.1% | 0.10 | 10 | \$126,051 | 82% | 0.00 |
| FE-Penn Power | Recommissioning | Mfg: Plastics | HVAC | Existing | end use | 34,307 | 5.0% | 0.25 | 10 | \$47 | 88% | 3.96 |
| FE-Penn Power | Recommissioning | Mfg: Plastics | HVAC | New | end use | 34,307 | 5.0% | 0.25 | 10 | \$47 | 88% | 3.96 |
| FE-Penn Power | Room AC (with louvered sides) | Mfg: Plastics | HVAC | Early | unit (ton) | 34,307 | 7.7% | 0.60 | 9 | \$2,690 | 78% | 0.36 |
| FE-Penn Power | Room AC (with louvered sides) | Mfg: Plastics | HVAC | New | unit (ton) | 34,307 | 2.6% | 0.20 | 9 | \$147 | 78% | 1.66 |
| FE-Penn Power | Room AC (with louvered sides) | Mfg: Plastics | HVAC | ROB | unit (ton) | 34,307 | 2.6% | 0.20 | 9 | \$147 | 78% | 1.66 |
| FE-Penn Power | Variable Refrigerant Flow Heat Pump | Mfg: Plastics | HVAC | New | measure | 34,307 | 0.1% | 0.01 | 13 | \$253 | 43% | 0.08 |
| FE-Penn Power | Variable Refrigerant Flow Heat Pump | Mfg: Plastics | HVAC | ROB | measure | 34,307 | 0.1% | 0.01 | 13 | \$253 | 43% | 0.08 |
| FE-Penn Power | VFD on Cooling Tower Fan | Mfg: Plastics | HVAC | Early | motor | 34,307 | 21% | 2.16 | 15 | \$1,584 | 15% | 2.07 |
| FE-Penn Power | VFD on Cooling Tower Fan | Mfg: Plastics | HVAC | New | motor | 34,307 | 22% | 2.16 | 15 | \$1,614 | 15% | 2.06 |
| FE-Penn Power | VFD on Cooling Tower Fan | Mfg: Plastics | HVAC | ROB | motor | 34,307 | 22% | 2.16 | 15 | \$1,614 | 15% | 2.06 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Mfg: Plastics | HVAC | Existing | building | 34,307 | 19% | 1.64 | 15 | \$24,405 | 26% | 0.15 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Mfg: Plastics | HVAC | New | building | 34,307 | 0.6% | 0.05 | 15 | \$18,720 | 94% | 0.01 |
| FE-Penn Power | Water Source Heat Pump (4 ton) | Mfg: Plastics | HVAC | Early | heat pump | 34,307 | 1.5% | 0.12 | 15 | \$5,832 | 28% | 0.05 |
| FE-Penn Power | Water Source Heat Pump (4 ton) | Mfg: Plastics | HVAC | New | heat pump | 34,307 | 1.1% | 0.09 | 15 | \$2,842 | 28% | 0.07 |
| FE-Penn Power | Water Source Heat Pump (4 ton) | Mfg: Plastics | HVAC | ROB | heat pump | 34,307 | 1.1% | 0.09 | 15 | \$2,842 | 28% | 0.07 |
| FE-Penn Power | Efficient Metal Halide (High Bay) | Mfg: Plastics | Lighting | Early | end use | 28,899 | 42% | 0.00 | 9 | \$4,516 | 53% | 0.67 |
| FE-Penn Power | Efficient Metal Halide (High Bay) | Mfg: Plastics | Lighting | New | end use | 28,899 | 41% | 0.00 | 13 | \$120,619 | 61% | 0.04 |
| FE-Penn Power | Efficient Metal Halide (High Bay) | Mfg: Plastics | Lighting | ROB | end use | 28,899 | 41% | 0.00 | 13 | \$92,184 | 61% | 0.05 |
| FE-Penn Power | Induction (High Bay) | Mfg: Plastics | Lighting | Early | end use | 28,899 | 94% | 0.00 | 13 | \$13,437 | 95% | 0.68 |
| FE-Penn Power | Induction (High Bay) | Mfg: Plastics | Lighting | New | end use | 28,899 | 94% | 0.00 | 13 | \$12,580 | 95% | 0.72 |
| FE-Penn Power | Induction (High Bay) | Mfg: Plastics | Lighting | ROB | end use | 28,899 | 94% | 0.00 | 13 | \$9,561 | 95% | 0.92 |
| FE-Penn Power | LED (High Bay) | Mfg: Plastics | Lighting | Early | end use | 28,899 | 69% | 0.00 | 14 | \$15,817 | 95% | 0.47 |
| FE-Penn Power | LED (High Bay) | Mfg: Plastics | Lighting | New | end use | 28,899 | 55% | 0.00 | 14 | \$17,556 | 95% | 0.35 |
| FE-Penn Power | LED (High Bay) | Mfg: Plastics | Lighting | ROB | end use | 28,899 | 59% | 0.00 | 14 | \$11,567 | 95% | 0.54 |
| FE-Penn Power | Lighting Controls | Mfg: Plastics | Lighting | Existing | end use | 28,899 | 20% | 0.00 | 6 | \$108,339 | 16% | 0.01 |
| FE-Penn Power | Lighting Controls | Mfg: Plastics | Lighting | New | end use | 28,899 | 12% | 0.00 | 10 | \$144,127 | 11% | 0.01 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---------------------------------------|---------------|----------|----------|---------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Linear Fluorescent (High Bay) | Mfg: Plastics | Lighting | Early | end use | 28,899 | 17% | 0.00 | 14 | \$3,307 | 98% | 0.54 |
| FE-Penn Power | Linear Fluorescent (High Bay) | Mfg: Plastics | Lighting | New | end use | 28,899 | 13% | 0.00 | 14 | \$1,049 | 91% | 1.15 |
| FE-Penn Power | Linear Fluorescent (High Bay) | Mfg: Plastics | Lighting | ROB | end use | 28,899 | 13% | 0.00 | 14 | \$671 | 91% | 1.66 |
| FE-Penn Power | Metal Halide (High Bay) | Mfg: Plastics | Lighting | Early | end use | 28,899 | 62% | 0.00 | 13 | \$19,866 | 38% | 0.33 |
| FE-Penn Power | Metal Halide (High Bay) | Mfg: Plastics | Lighting | New | end use | 28,899 | 73% | 0.00 | 13 | \$4,750 | 38% | 1.30 |
| FE-Penn Power | Metal Halide (High Bay) | Mfg: Plastics | Lighting | ROB | end use | 28,899 | 73% | 0.00 | 13 | \$3,610 | 38% | 1.59 |
| FE-Penn Power | Screw Base CFL | Mfg: Plastics | Lighting | Early | end use | 28,899 | 80% | 0.00 | 7 | \$7,851 | 17% | 0.60 |
| FE-Penn Power | Screw Base CFL | Mfg: Plastics | Lighting | New | end use | 28,899 | 73% | 0.00 | 9 | \$6,416 | 18% | 0.79 |
| FE-Penn Power | Screw Base CFL | Mfg: Plastics | Lighting | ROB | end use | 28,899 | 73% | 0.00 | 9 | \$5,370 | 17% | 0.91 |
| FE-Penn Power | Screw Base LED | Mfg: Plastics | Lighting | Early | end use | 28,899 | 76% | 0.00 | 9 | \$4,818 | 21% | 1.06 |
| FE-Penn Power | Screw Base LED | Mfg: Plastics | Lighting | New | end use | 28,899 | 77% | 0.00 | 9 | \$2,684 | 20% | 1.61 |
| FE-Penn Power | Screw Base LED | Mfg: Plastics | Lighting | ROB | end use | 28,899 | 77% | 0.00 | 9 | \$2,131 | 21% | 1.85 |
| FE-Penn Power | T8 High Performance Linear Florescent | Mfg: Plastics | Lighting | Early | end use | 28,899 | 36% | 0.00 | 14 | \$2,765 | 71% | 1.22 |
| FE-Penn Power | T8 High Performance Linear Florescent | Mfg: Plastics | Lighting | New | end use | 28,899 | 26% | 0.00 | 14 | \$989 | 76% | 2.05 |
| FE-Penn Power | T8 High Performance Linear Florescent | Mfg: Plastics | Lighting | ROB | end use | 28,899 | 26% | 0.00 | 14 | \$752 | 76% | 2.42 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Plastics | Motors | Early | end use | 18,189 | 0.9% | 0.02 | 15 | \$278 | 81% | 0.28 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Plastics | Motors | New | end use | 18,189 | 0.9% | 0.02 | 15 | \$278 | 81% | 0.28 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Plastics | Motors | ROB | end use | 18,189 | 0.9% | 0.02 | 15 | \$278 | 81% | 0.28 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Plastics | Motors | Early | end use | 18,189 | 0.8% | 0.02 | 15 | \$169 | 73% | 0.37 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Plastics | Motors | New | end use | 18,189 | 0.7% | 0.02 | 15 | \$169 | 73% | 0.37 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Plastics | Motors | ROB | end use | 18,189 | 0.8% | 0.02 | 15 | \$169 | 73% | 0.38 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Plastics | Motors | Early | end use | 18,189 | 0.5% | 0.01 | 15 | \$65 | 81% | 0.58 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Plastics | Motors | New | end use | 18,189 | 0.5% | 0.01 | 15 | \$65 | 81% | 0.57 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Plastics | Motors | ROB | end use | 18,189 | 0.4% | 0.01 | 15 | \$65 | 81% | 0.56 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Plastics | Motors | Early | end use | 18,189 | 0.4% | 0.01 | 15 | \$21 | 73% | 1.32 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Plastics | Motors | New | end use | 18,189 | 0.4% | 0.01 | 15 | \$21 | 73% | 1.35 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Plastics | Motors | ROB | end use | 18,189 | 0.4% | 0.01 | 15 | \$21 | 73% | 1.36 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Plastics | Motors | Early | end use | 18,189 | 0.9% | 0.02 | 15 | \$32 | 47% | 1.88 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Plastics | Motors | New | end use | 18,189 | 0.9% | 0.02 | 15 | \$32 | 47% | 1.87 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Plastics | Motors | ROB | end use | 18,189 | 0.9% | 0.02 | 15 | \$32 | 47% | 1.86 |
| FE-Penn Power | Facility Energy Management | Mfg: Plastics | Motors | Existing | end use | 18,189 | 1.9% | 0.05 | 2 | \$7.0 | 77% | 1.09 |
| FE-Penn Power | Facility Energy Management | Mfg: Plastics | Motors | New | end use | 18,189 | 1.9% | 0.05 | 2 | \$7.0 | 77% | 1.10 |
| FE-Penn Power | HE Motors | Mfg: Plastics | Motors | Early | end use | 18,189 | 2.0% | 0.05 | 15 | \$108 | 38% | 1.34 |
| FE-Penn Power | HE Motors | Mfg: Plastics | Motors | New | end use | 18,189 | 2.0% | 0.05 | 15 | \$108 | 38% | 1.34 |
| FE-Penn Power | HE Motors | Mfg: Plastics | Motors | ROB | end use | 18,189 | 2.0% | 0.05 | 15 | \$108 | 38% | 1.34 |
| FE-Penn Power | High-Efficiency Ventilation System | Mfg: Plastics | Motors | Early | end use | 18,189 | 5.7% | 0.15 | 10 | \$1,137 | 73% | 0.31 |
| FE-Penn Power | High-Efficiency Ventilation System | Mfg: Plastics | Motors | New | end use | 18,189 | 5.7% | 0.15 | 10 | \$1,137 | 73% | 0.31 |
| FE-Penn Power | High-Efficiency Ventilation System | Mfg: Plastics | Motors | ROB | end use | 18,189 | 5.7% | 0.15 | 10 | \$1,137 | 73% | 0.31 |
| FE-Penn Power | Improved Controls - Motors | Mfg: Plastics | Motors | Existing | end use | 18,189 | 4.0% | 0.10 | 10 | \$79 | 73% | 2.03 |
| FE-Penn Power | Improved Controls - Motors | Mfg: Plastics | Motors | New | end use | 18,189 | 4.0% | 0.10 | 10 | \$79 | 73% | 2.03 |
| FE-Penn Power | Motor Management Plan | Mfg: Plastics | Motors | Existing | end use | 18,189 | 2.9% | 0.08 | 10 | \$37 | 73% | 2.60 |
| FE-Penn Power | Motor Management Plan | Mfg: Plastics | Motors | New | end use | 18,189 | 2.9% | 0.08 | 10 | \$37 | 73% | 2.60 |
| FE-Penn Power | Motors Other | Mfg: Plastics | Motors | Existing | end use | 18,189 | 1.1% | 0.03 | 15 | \$3.6 | 83% | 5.48 |
| FE-Penn Power | Motors Other | Mfg: Plastics | Motors | New | end use | 18,189 | 1.1% | 0.03 | 15 | \$3.6 | 83% | 5.48 |
| FE-Penn Power | Motors: Rewind 101-200 HP | Mfg: Plastics | Motors | Existing | end use | 18,189 | 0.6% | 0.01 | 10 | \$23 | 27% | 1.23 |
| FE-Penn Power | Motors: Rewind 101-200 HP | Mfg: Plastics | Motors | New | end use | 18,189 | 0.6% | 0.01 | 10 | \$23 | 27% | 1.24 |
| FE-Penn Power | Motors: Rewind 201-500 HP | Mfg: Plastics | Motors | Existing | end use | 18,189 | 0.5% | 0.01 | 8 | \$14 | 27% | 1.46 |
| FE-Penn Power | Motors: Rewind 201-500 HP | Mfg: Plastics | Motors | New | end use | 18,189 | 0.6% | 0.01 | 8 | \$14 | 27% | 1.48 |
| FE-Penn Power | Motors: Rewind 20-50 HP | Mfg: Plastics | Motors | Existing | end use | 18,189 | 1.0% | 0.03 | 11 | \$68 | 42% | 0.92 |
| FE-Penn Power | Motors: Rewind 20-50 HP | Mfg: Plastics | Motors | New | end use | 18,189 | 1.0% | 0.03 | 11 | \$68 | 42% | 0.92 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|--|---------------|------------------------|----------|---------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Motors: Rewind 500+ HP | Mfg: Plastics | Motors | Existing | end use | 18,189 | 0.6% | 0.01 | 8 | \$10 | 11% | 1.85 |
| FE-Penn Power | Motors: Rewind 500+ HP | Mfg: Plastics | Motors | New | end use | 18,189 | 0.6% | 0.01 | 8 | \$10 | 11% | 1.83 |
| FE-Penn Power | Motors: Rewind 51-100 HP | Mfg: Plastics | Motors | Existing | end use | 18,189 | 0.6% | 0.02 | 9 | \$33 | 42% | 0.92 |
| FE-Penn Power | Motors: Rewind 51-100 HP | Mfg: Plastics | Motors | New | end use | 18,189 | 0.6% | 0.02 | 9 | \$33 | 42% | 0.91 |
| FE-Penn Power | Switch from Belt drive to Direct Drive | Mfg: Plastics | Motors | Early | end use | 18,189 | 7.5% | 0.19 | 12 | \$292 | 30% | 1.45 |
| FE-Penn Power | Switch from Belt drive to Direct Drive | Mfg: Plastics | Motors | New | end use | 18,189 | 7.5% | 0.19 | 12 | \$292 | 30% | 1.45 |
| FE-Penn Power | Switch from Belt drive to Direct Drive | Mfg: Plastics | Motors | ROB | end use | 18,189 | 7.5% | 0.19 | 12 | \$292 | 30% | 1.45 |
| FE-Penn Power | Synchronous Belts | Mfg: Plastics | Motors | Early | end use | 18,189 | 1.2% | 0.03 | 10 | \$27 | 30% | 1.86 |
| FE-Penn Power | Synchronous Belts | Mfg: Plastics | Motors | New | end use | 18,189 | 1.2% | 0.03 | 10 | \$27 | 30% | 1.86 |
| FE-Penn Power | Synchronous Belts | Mfg: Plastics | Motors | ROB | end use | 18,189 | 1.2% | 0.03 | 10 | \$27 | 30% | 1.86 |
| FE-Penn Power | Bldg Improvements | Mfg: Plastics | Other | Existing | end use | 8,924 | 16% | 0.17 | 15 | \$195 | 72% | 2.31 |
| FE-Penn Power | Bldg Improvements | Mfg: Plastics | Other | New | end use | 8,924 | 16% | 0.17 | 15 | \$195 | 72% | 2.31 |
| FE-Penn Power | Energy Project Management | Mfg: Plastics | Other | Existing | end use | 8,924 | 29% | 0.31 | 11 | \$319 | 63% | 1.95 |
| FE-Penn Power | Energy Project Management | Mfg: Plastics | Other | New | end use | 8,924 | 29% | 0.31 | 11 | \$319 | 63% | 1.95 |
| FE-Penn Power | Facility Energy Management | Mfg: Plastics | Other | Existing | end use | 8,924 | 1.8% | 0.02 | 2 | \$3.4 | 76% | 1.06 |
| FE-Penn Power | Facility Energy Management | Mfg: Plastics | Other | New | end use | 8,924 | 1.9% | 0.02 | 2 | \$3.4 | 76% | 1.06 |
| FE-Penn Power | Integrated Plant Energy Management | Mfg: Plastics | Other | Existing | end use | 8,924 | 50% | 0.53 | 11 | \$880 | 48% | 1.41 |
| FE-Penn Power | Integrated Plant Energy Management | Mfg: Plastics | Other | New | end use | 8,924 | 50% | 0.53 | 11 | \$880 | 48% | 1.41 |
| FE-Penn Power | Plant Energy Management | Mfg: Plastics | Other | Existing | end use | 8,924 | 12% | 0.13 | 10 | \$22 | 55% | 3.90 |
| FE-Penn Power | Plant Energy Management | Mfg: Plastics | Other | New | end use | 8,924 | 12% | 0.13 | 10 | \$22 | 55% | 3.90 |
| FE-Penn Power | Transformers | Mfg: Plastics | Other | Early | end use | 8,924 | 1.6% | 0.02 | 15 | \$29 | 34% | 1.71 |
| FE-Penn Power | Transformers | Mfg: Plastics | Other | New | end use | 8,924 | 1.6% | 0.02 | 15 | \$29 | 34% | 1.72 |
| FE-Penn Power | Transformers | Mfg: Plastics | Other | ROB | end use | 8,924 | 1.6% | 0.02 | 15 | \$29 | 34% | 1.71 |
| FE-Penn Power | Air Compressor Demand Reduction | Mfg: Plastics | Process Air Compressor | Existing | end use | 599 | 26% | 0.02 | 10 | \$9.0 | 40% | 2.80 |
| FE-Penn Power | Air Compressor Demand Reduction | Mfg: Plastics | Process Air Compressor | New | end use | 599 | 26% | 0.02 | 10 | \$9.0 | 40% | 2.80 |
| FE-Penn Power | Facility Energy Management | Mfg: Plastics | Process Air Compressor | Existing | end use | 599 | 1.9% | 0.00 | 2 | \$0.2 | 50% | 1.08 |
| FE-Penn Power | Facility Energy Management | Mfg: Plastics | Process Air Compressor | New | end use | 599 | 1.9% | 0.00 | 2 | \$0.2 | 50% | 1.08 |
| FE-Penn Power | HE Compressor motors | Mfg: Plastics | Process Air Compressor | Early | end use | 599 | 1.1% | 0.00 | 15 | \$2.3 | 56% | 1.17 |
| FE-Penn Power | HE Compressor motors | Mfg: Plastics | Process Air Compressor | New | end use | 599 | 1.1% | 0.00 | 15 | \$2.3 | 56% | 1.16 |
| FE-Penn Power | HE Compressor motors | Mfg: Plastics | Process Air Compressor | ROB | end use | 599 | 1.1% | 0.00 | 15 | \$2.3 | 56% | 1.17 |
| FE-Penn Power | Improved Controls - Air Compressor | Mfg: Plastics | Process Air Compressor | Existing | end use | 599 | 41% | 0.03 | 10 | \$11 | 19% | 3.15 |
| FE-Penn Power | Improved Controls - Air Compressor | Mfg: Plastics | Process Air Compressor | New | end use | 599 | 41% | 0.03 | 10 | \$11 | 19% | 3.15 |
| FE-Penn Power | Low Pressure-drop Filters | Mfg: Plastics | Process Air Compressor | Existing | end use | 599 | 1.9% | 0.00 | 10 | \$6.8 | 46% | 0.53 |
| FE-Penn Power | Low Pressure-drop Filters | Mfg: Plastics | Process Air Compressor | New | end use | 599 | 1.8% | 0.00 | 10 | \$6.8 | 46% | 0.53 |
| FE-Penn Power | Outside Air Intake | Mfg: Plastics | Process Air Compressor | Existing | end use | 599 | 1.4% | 0.00 | 10 | \$3.9 | 37% | 0.68 |
| FE-Penn Power | Outside Air Intake | Mfg: Plastics | Process Air Compressor | New | end use | 599 | 1.4% | 0.00 | 10 | \$3.9 | 37% | 0.68 |
| FE-Penn Power | Receiver Capacity Addition | Mfg: Plastics | Process Air Compressor | Existing | end use | 599 | 5.9% | 0.00 | 10 | \$11 | 28% | 0.94 |
| FE-Penn Power | Receiver Capacity Addition | Mfg: Plastics | Process Air Compressor | New | end use | 599 | 5.9% | 0.00 | 10 | \$11 | 28% | 0.94 |
| FE-Penn Power | Refrigerated Cycling Dryers | Mfg: Plastics | Process Air Compressor | Early | end use | 599 | 1.7% | 0.00 | 10 | \$1.4 | 16% | 1.74 |
| FE-Penn Power | Refrigerated Cycling Dryers | Mfg: Plastics | Process Air Compressor | New | end use | 599 | 1.7% | 0.00 | 10 | \$1.4 | 16% | 1.74 |
| FE-Penn Power | Refrigerated Cycling Dryers | Mfg: Plastics | Process Air Compressor | ROB | end use | 599 | 1.7% | 0.00 | 10 | \$1.4 | 16% | 1.74 |
| FE-Penn Power | VFD Controlled Compressor | Mfg: Plastics | Process Air Compressor | Early | end use | 599 | 24% | 0.02 | 10 | \$59 | 22% | 0.74 |
| FE-Penn Power | VFD Controlled Compressor | Mfg: Plastics | Process Air Compressor | New | end use | 599 | 24% | 0.02 | 10 | \$59 | 22% | 0.74 |
| FE-Penn Power | VFD Controlled Compressor | Mfg: Plastics | Process Air Compressor | ROB | end use | 599 | 24% | 0.02 | 10 | \$59 | 22% | 0.74 |
| FE-Penn Power | Zero Loss Condensate Drain | Mfg: Plastics | Process Air Compressor | Early | end use | 599 | 1.8% | 0.00 | 10 | \$3.4 | 28% | 0.94 |
| FE-Penn Power | Zero Loss Condensate Drain | Mfg: Plastics | Process Air Compressor | New | end use | 599 | 1.8% | 0.00 | 10 | \$3.4 | 28% | 0.95 |
| FE-Penn Power | Zero Loss Condensate Drain | Mfg: Plastics | Process Air Compressor | ROB | end use | 599 | 1.9% | 0.00 | 10 | \$3.4 | 28% | 0.95 |
| FE-Penn Power | Clean Room: Change Filter Strategy | Mfg: Plastics | Process Cooling | Existing | end use | 23,253 | 40% | 1.94 | 1 | \$60 | 17% | 0.78 |
| FE-Penn Power | Clean Room: Change Filter Strategy | Mfg: Plastics | Process Cooling | New | end use | 23,253 | 40% | 1.94 | 1 | \$60 | 17% | 0.78 |
| FE-Penn Power | Clean Room: Chiller Optimize | Mfg: Plastics | Process Cooling | Existing | end use | 23,253 | 15% | 0.72 | 10 | \$281 | 27% | 2.53 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---------------------------------------|---------------|-----------------------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Clean Room: Chiller Optimize | Mfg: Plastics | Process Cooling | New | end use | 23,253 | 15% | 0.72 | 10 | \$281 | 27% | 2.53 |
| FE-Penn Power | Clean Room: Clean Room HVAC | Mfg: Plastics | Process Cooling | Existing | end use | 23,253 | 9.0% | 0.44 | 15 | \$339 | 40% | 2.19 |
| FE-Penn Power | Clean Room: Clean Room HVAC | Mfg: Plastics | Process Cooling | New | end use | 23,253 | 9.0% | 0.44 | 15 | \$339 | 40% | 2.19 |
| FE-Penn Power | Cooling Tower Optimization | Mfg: Plastics | Process Cooling | Existing | building | 23,253 | 20% | 1.66 | 10 | \$143 | 15% | 4.44 |
| FE-Penn Power | Equipment: Chillers | Mfg: Plastics | Process Cooling | Early | end use | 23,253 | 18% | 0.87 | 15 | \$1,091 | 50% | 1.53 |
| FE-Penn Power | Equipment: Chillers | Mfg: Plastics | Process Cooling | New | end use | 23,253 | 18% | 0.87 | 15 | \$1,091 | 50% | 1.53 |
| FE-Penn Power | Equipment: Chillers | Mfg: Plastics | Process Cooling | ROB | end use | 23,253 | 18% | 0.87 | 15 | \$1,091 | 50% | 1.53 |
| FE-Penn Power | Facility Energy Management | Mfg: Plastics | Process Cooling | Existing | end use | 23,253 | 1.9% | 0.09 | 2 | \$9.0 | 63% | 1.15 |
| FE-Penn Power | Facility Energy Management | Mfg: Plastics | Process Cooling | New | end use | 23,253 | 1.9% | 0.09 | 2 | \$9.0 | 63% | 1.15 |
| FE-Penn Power | Improved Controls - Process Cooling | Mfg: Plastics | Process Cooling | Existing | end use | 23,253 | 6.0% | 0.29 | 10 | \$1,228 | 60% | 0.40 |
| FE-Penn Power | Improved Controls - Process Cooling | Mfg: Plastics | Process Cooling | New | end use | 23,253 | 6.0% | 0.29 | 10 | \$1,228 | 60% | 0.40 |
| FE-Penn Power | VFD on Cooling Tower Fan | Mfg: Plastics | Process Cooling | Early | motor | 23,253 | 21% | 1.47 | 15 | \$1,074 | 20% | 1.93 |
| FE-Penn Power | VFD on Cooling Tower Fan | Mfg: Plastics | Process Cooling | New | motor | 23,253 | 22% | 1.47 | 15 | \$1,094 | 20% | 1.92 |
| FE-Penn Power | VFD on Cooling Tower Fan | Mfg: Plastics | Process Cooling | ROB | motor | 23,253 | 22% | 1.47 | 15 | \$1,094 | 20% | 1.92 |
| FE-Penn Power | Improved Controls - Process Heating | Mfg: Plastics | Process Heating | Existing | end use | 53,234 | 17% | 1.25 | 10 | \$612 | 77% | 2.58 |
| FE-Penn Power | Improved Controls - Process Heating | Mfg: Plastics | Process Heating | New | end use | 53,234 | 17% | 1.25 | 10 | \$612 | 77% | 2.58 |
| FE-Penn Power | Process Heat O&M | Mfg: Plastics | Process Heating | Existing | end use | 53,234 | 16% | 1.18 | 2 | \$370 | 77% | 0.85 |
| FE-Penn Power | Process Heat O&M | Mfg: Plastics | Process Heating | New | end use | 53,234 | 16% | 1.18 | 2 | \$370 | 77% | 0.85 |
| FE-Penn Power | Facility Energy Management | Mfg: Plastics | Process Other | Existing | end use | 35,077 | 1.9% | 0.09 | 2 | \$14 | 73% | 1.06 |
| FE-Penn Power | Facility Energy Management | Mfg: Plastics | Process Other | New | end use | 35,077 | 1.9% | 0.09 | 2 | \$14 | 73% | 1.06 |
| FE-Penn Power | Adjustable speed drive on compressors | Mfg: Plastics | Process Refrigeration | Early | end use | 11,945 | 12% | 0.20 | 10 | \$221 | 30% | 1.61 |
| FE-Penn Power | Adjustable speed drive on compressors | Mfg: Plastics | Process Refrigeration | New | end use | 11,945 | 12% | 0.20 | 10 | \$221 | 30% | 1.61 |
| FE-Penn Power | Adjustable speed drive on compressors | Mfg: Plastics | Process Refrigeration | ROB | end use | 11,945 | 12% | 0.20 | 10 | \$221 | 30% | 1.61 |
| FE-Penn Power | Cooling Tower Optimization | Mfg: Plastics | Process Refrigeration | Existing | building | 11,945 | 20% | 0.86 | 10 | \$73 | 15% | 4.44 |
| FE-Penn Power | Optimization of operating parameters | Mfg: Plastics | Process Refrigeration | Existing | end use | 11,945 | 13% | 0.23 | 3 | \$96 | 27% | 1.07 |
| FE-Penn Power | Optimization of operating parameters | Mfg: Plastics | Process Refrigeration | New | end use | 11,945 | 13% | 0.23 | 3 | \$96 | 27% | 1.07 |
| FE-Penn Power | Synchronous Belts | Mfg: Plastics | Process Refrigeration | Early | end use | 11,945 | 1.2% | 0.02 | 10 | \$18 | 30% | 1.87 |
| FE-Penn Power | Synchronous Belts | Mfg: Plastics | Process Refrigeration | New | end use | 11,945 | 1.2% | 0.02 | 10 | \$18 | 30% | 1.87 |
| FE-Penn Power | Synchronous Belts | Mfg: Plastics | Process Refrigeration | ROB | end use | 11,945 | 1.2% | 0.02 | 10 | \$18 | 30% | 1.87 |
| FE-Penn Power | VFD on Cooling Tower Fan | Mfg: Plastics | Process Refrigeration | Early | motor | 11,945 | 21% | 0.75 | 15 | \$552 | 20% | 1.93 |
| FE-Penn Power | VFD on Cooling Tower Fan | Mfg: Plastics | Process Refrigeration | New | motor | 11,945 | 22% | 0.75 | 15 | \$562 | 20% | 1.92 |
| FE-Penn Power | VFD on Cooling Tower Fan | Mfg: Plastics | Process Refrigeration | ROB | motor | 11,945 | 22% | 0.75 | 15 | \$562 | 20% | 1.92 |
| FE-Penn Power | Facility Energy Management | Mfg: Plastics | Pumps | Existing | end use | 101,959 | 1.9% | 0.24 | 2 | \$39 | 65% | 1.13 |
| FE-Penn Power | Facility Energy Management | Mfg: Plastics | Pumps | New | end use | 101,959 | 1.9% | 0.24 | 2 | \$39 | 65% | 1.13 |
| FE-Penn Power | HE Motors | Mfg: Plastics | Pumps | Early | end use | 101,959 | 2.0% | 0.27 | 15 | \$607 | 69% | 1.32 |
| FE-Penn Power | HE Motors | Mfg: Plastics | Pumps | New | end use | 101,959 | 2.0% | 0.27 | 15 | \$607 | 69% | 1.32 |
| FE-Penn Power | HE Motors | Mfg: Plastics | Pumps | ROB | end use | 101,959 | 2.0% | 0.27 | 15 | \$607 | 69% | 1.32 |
| FE-Penn Power | Motor rewinds | Mfg: Plastics | Pumps | Existing | end use | 101,959 | 0.6% | 0.08 | 9 | \$145 | 11% | 1.14 |
| FE-Penn Power | Motor rewinds | Mfg: Plastics | Pumps | New | end use | 101,959 | 0.6% | 0.08 | 9 | \$145 | 11% | 1.14 |
| FE-Penn Power | Pump Equipment Upgrade | Mfg: Plastics | Pumps | Early | end use | 101,959 | 20% | 2.65 | 12 | \$2,549 | 77% | 2.08 |
| FE-Penn Power | Pump Equipment Upgrade | Mfg: Plastics | Pumps | New | end use | 101,959 | 20% | 2.65 | 12 | \$2,549 | 77% | 2.08 |
| FE-Penn Power | Pump Equipment Upgrade | Mfg: Plastics | Pumps | ROB | end use | 101,959 | 20% | 2.65 | 12 | \$2,549 | 77% | 2.08 |
| FE-Penn Power | Pump System Optimization | Mfg: Plastics | Pumps | Existing | end use | 101,959 | 8.7% | 1.15 | 12 | \$1,867 | 36% | 1.51 |
| FE-Penn Power | Pump System Optimization | Mfg: Plastics | Pumps | New | end use | 101,959 | 8.7% | 1.15 | 12 | \$1,867 | 36% | 1.51 |
| FE-Penn Power | Synchronous Belts | Mfg: Plastics | Pumps | Early | end use | 101,959 | 1.2% | 0.15 | 10 | \$150 | 57% | 1.83 |
| FE-Penn Power | Synchronous Belts | Mfg: Plastics | Pumps | New | end use | 101,959 | 1.2% | 0.15 | 10 | \$150 | 57% | 1.83 |
| FE-Penn Power | Synchronous Belts | Mfg: Plastics | Pumps | ROB | end use | 101,959 | 1.2% | 0.15 | 10 | \$150 | 57% | 1.83 |
| FE-Penn Power | <65k BTU/hr 14 SEER Air Conditioner | Mining | HVAC | Early | unit (ton) | 12,707 | 9.2% | 0.30 | 15 | \$2,316 | 28% | 0.28 |
| FE-Penn Power | <65k BTU/hr 14 SEER Air Conditioner | Mining | HVAC | New | unit (ton) | 12,707 | 4.1% | 0.14 | 15 | \$561 | 28% | 0.50 |
| FE-Penn Power | <65k BTU/hr 14 SEER Air Conditioner | Mining | HVAC | ROB | unit (ton) | 12,707 | 4.1% | 0.14 | 15 | \$561 | 28% | 0.50 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|---------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | <65k BTU/hr 15 SEER Air Conditioner | Mining | HVAC | Early | unit (ton) | 12,707 | 12% | 0.41 | 15 | \$2,730 | 28% | 0.32 |
| FE-Penn Power | <65k BTU/hr 15 SEER Air Conditioner | Mining | HVAC | New | unit (ton) | 12,707 | 7.7% | 0.25 | 15 | \$1,182 | 28% | 0.45 |
| FE-Penn Power | <65k BTU/hr 15 SEER Air Conditioner | Mining | HVAC | ROB | unit (ton) | 12,707 | 7.7% | 0.25 | 15 | \$1,182 | 28% | 0.45 |
| FE-Penn Power | <65k BTU/hr 16 SEER Air Conditioner | Mining | HVAC | Early | unit (ton) | 12,707 | 15% | 0.50 | 15 | \$3,144 | 29% | 0.34 |
| FE-Penn Power | <65k BTU/hr 16 SEER Air Conditioner | Mining | HVAC | New | unit (ton) | 12,707 | 11% | 0.36 | 15 | \$1,802 | 29% | 0.42 |
| FE-Penn Power | <65k BTU/hr 16 SEER Air Conditioner | Mining | HVAC | ROB | unit (ton) | 12,707 | 11% | 0.36 | 15 | \$1,802 | 29% | 0.42 |
| FE-Penn Power | >760k min 10.2 EER Air Conditioner | Mining | HVAC | Early | unit (ton) | 12,707 | 2.1% | 0.07 | 15 | \$4,033 | 35% | 0.04 |
| FE-Penn Power | >760k min 10.2 EER Air Conditioner | Mining | HVAC | New | unit (ton) | 12,707 | 2.8% | 0.09 | 15 | \$364 | 35% | 0.53 |
| FE-Penn Power | >760k min 10.2 EER Air Conditioner | Mining | HVAC | ROB | unit (ton) | 12,707 | 2.8% | 0.09 | 15 | \$364 | 35% | 0.53 |
| FE-Penn Power | 135-240k min 12 EER Air Conditioner | Mining | HVAC | Early | unit (ton) | 12,707 | 10% | 0.34 | 15 | \$4,367 | 35% | 0.17 |
| FE-Penn Power | 135-240k min 12 EER Air Conditioner | Mining | HVAC | New | unit (ton) | 12,707 | 5.8% | 0.19 | 15 | \$516 | 35% | 0.74 |
| FE-Penn Power | 135-240k min 12 EER Air Conditioner | Mining | HVAC | ROB | unit (ton) | 12,707 | 5.8% | 0.19 | 15 | \$516 | 35% | 0.74 |
| FE-Penn Power | 240k-760k min 11 EER Air Conditioner | Mining | HVAC | Early | unit (ton) | 12,707 | 5.2% | 0.17 | 15 | \$4,035 | 35% | 0.09 |
| FE-Penn Power | 240k-760k min 11 EER Air Conditioner | Mining | HVAC | New | unit (ton) | 12,707 | 5.3% | 0.18 | 15 | \$432 | 35% | 0.81 |
| FE-Penn Power | 240k-760k min 11 EER Air Conditioner | Mining | HVAC | ROB | unit (ton) | 12,707 | 5.3% | 0.18 | 15 | \$432 | 35% | 0.81 |
| FE-Penn Power | 65k-135k BTU/hr 12 EER Air Conditioner | Mining | HVAC | Early | unit (ton) | 12,707 | 9.7% | 0.32 | 15 | \$4,471 | 35% | 0.16 |
| FE-Penn Power | 65k-135k BTU/hr 12 EER Air Conditioner | Mining | HVAC | New | unit (ton) | 12,707 | 3.8% | 0.13 | 15 | \$638 | 35% | 0.42 |
| FE-Penn Power | 65k-135k BTU/hr 12 EER Air Conditioner | Mining | HVAC | ROB | unit (ton) | 12,707 | 3.8% | 0.13 | 15 | \$638 | 35% | 0.42 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Mining | HVAC | Existing | building | 12,707 | 5.9% | 0.19 | 15 | \$38,499 | 71% | 0.01 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Mining | HVAC | New | building | 12,707 | 3.7% | 0.12 | 15 | \$36,595 | 94% | 0.01 |
| FE-Penn Power | Chiller Tuneup/Diagnostics | Mining | HVAC | Existing | building | 12,707 | 8.0% | 0.37 | 10 | \$32,446 | 59% | 0.02 |
| FE-Penn Power | Chiller Tuneup/Diagnostics | Mining | HVAC | New | building | 12,707 | 8.0% | 0.37 | 10 | \$32,446 | 59% | 0.02 |
| FE-Penn Power | Cooling Tower Optimization | Mining | HVAC | Existing | building | 12,707 | 20% | 0.91 | 10 | \$78 | 69% | 4.73 |
| FE-Penn Power | Duct Insulation, Add R8 | Mining | HVAC | Existing | building | 12,707 | 1.5% | 0.04 | 15 | \$101 | 18% | 0.94 |
| FE-Penn Power | Duct Insulation, Add R8 | Mining | HVAC | New | building | 12,707 | 1.5% | 0.04 | 15 | \$101 | 9% | 0.94 |
| FE-Penn Power | Ductless Heat Pump | Mining | HVAC | Early | heat pump | 12,707 | 0.8% | 0.02 | 15 | \$1,005 | 83% | 0.06 |
| FE-Penn Power | Ductless Heat Pump | Mining | HVAC | New | heat pump | 12,707 | 0.4% | 0.01 | 15 | \$292 | 83% | 0.10 |
| FE-Penn Power | Ductless Heat Pump | Mining | HVAC | ROB | heat pump | 12,707 | 0.4% | 0.01 | 15 | \$292 | 83% | 0.10 |
| FE-Penn Power | DX Coil Cleaning | Mining | HVAC | Existing | building | 12,707 | 13% | 0.58 | 1 | \$122 | 73% | 0.50 |
| FE-Penn Power | DX Coil Cleaning | Mining | HVAC | New | building | 12,707 | 13% | 0.58 | 1 | \$122 | 73% | 0.50 |
| FE-Penn Power | Efficient Unit Heating System | Mining | HVAC | Early | heater | 12,707 | 6.9% | 0.01 | 15 | \$686 | 83% | 0.52 |
| FE-Penn Power | Efficient Unit Heating System | Mining | HVAC | New | heater | 12,707 | 4.0% | 0.00 | 15 | \$468 | 83% | 0.44 |
| FE-Penn Power | Efficient Unit Heating System | Mining | HVAC | ROB | heater | 12,707 | 4.0% | 0.00 | 15 | \$468 | 83% | 0.44 |
| FE-Penn Power | Ground Source Heat Pump (Closed Loop) | Mining | HVAC | Early | heat pump | 12,707 | 1.3% | 0.04 | 15 | \$2,086 | 19% | 0.04 |
| FE-Penn Power | Ground Source Heat Pump (Closed Loop) | Mining | HVAC | New | heat pump | 12,707 | 1.0% | 0.03 | 15 | \$824 | 19% | 0.09 |
| FE-Penn Power | Ground Source Heat Pump (Closed Loop) | Mining | HVAC | ROB | heat pump | 12,707 | 1.0% | 0.03 | 15 | \$824 | 19% | 0.09 |
| FE-Penn Power | Ground Source Heat Pump (Open Loop) | Mining | HVAC | Early | heat pump | 12,707 | 1.3% | 0.04 | 15 | \$1,336 | 19% | 0.07 |
| FE-Penn Power | Ground Source Heat Pump (Open Loop) | Mining | HVAC | New | heat pump | 12,707 | 1.0% | 0.03 | 15 | \$28 | 19% | 1.92 |
| FE-Penn Power | Ground Source Heat Pump (Open Loop) | Mining | HVAC | ROB | heat pump | 12,707 | 1.0% | 0.03 | 15 | \$28 | 19% | 1.92 |
| FE-Penn Power | HE Air Cooled Chiller, 100 Tons | Mining | HVAC | Early | unit (ton) | 12,707 | 1.5% | 0.04 | 15 | \$14,781 | 89% | 0.01 |
| FE-Penn Power | HE Air Cooled Chiller, 100 Tons | Mining | HVAC | New | unit (ton) | 12,707 | 0.4% | 0.01 | 15 | \$2,153 | 89% | 0.01 |
| FE-Penn Power | HE Air Cooled Chiller, 100 Tons | Mining | HVAC | ROB | unit (ton) | 12,707 | 0.4% | 0.01 | 15 | \$2,153 | 89% | 0.01 |
| FE-Penn Power | HE Air Cooled Chiller, 150 Tons | Mining | HVAC | Early | unit (ton) | 12,707 | 1.4% | 0.04 | 15 | \$12,768 | 89% | 0.01 |
| FE-Penn Power | HE Air Cooled Chiller, 150 Tons | Mining | HVAC | New | unit (ton) | 12,707 | 0.3% | 0.01 | 15 | \$1,058 | 89% | 0.02 |
| FE-Penn Power | HE Air Cooled Chiller, 150 Tons | Mining | HVAC | ROB | unit (ton) | 12,707 | 0.3% | 0.01 | 15 | \$1,058 | 89% | 0.02 |
| FE-Penn Power | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mining | HVAC | Early | heat pump | 12,707 | 1.4% | 0.04 | 12 | \$545 | 81% | 0.15 |
| FE-Penn Power | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mining | HVAC | Early | heat pump | 12,707 | 1.1% | 0.03 | 12 | \$398 | 81% | 0.17 |
| FE-Penn Power | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mining | HVAC | New | heat pump | 12,707 | 1.0% | 0.03 | 12 | \$243 | 81% | 0.24 |
| FE-Penn Power | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mining | HVAC | New | heat pump | 12,707 | 0.8% | 0.02 | 12 | \$85 | 81% | 0.50 |
| FE-Penn Power | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mining | HVAC | ROB | heat pump | 12,707 | 1.0% | 0.03 | 12 | \$243 | 81% | 0.24 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|---------|----------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mining | HVAC | ROB | heat pump | 12,707 | 0.8% | 0.02 | 12 | \$85 | 81% | 0.50 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 175 Tons | Mining | HVAC | Early | unit (ton) | 12,707 | 1.6% | 0.05 | 15 | \$1,173 | 89% | 0.09 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 175 Tons | Mining | HVAC | New | unit (ton) | 12,707 | 0.9% | 0.03 | 15 | \$390 | 89% | 0.16 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 175 Tons | Mining | HVAC | ROB | unit (ton) | 12,707 | 0.9% | 0.03 | 15 | \$390 | 89% | 0.16 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 300 Tons | Mining | HVAC | Early | unit (ton) | 12,707 | 1.4% | 0.04 | 15 | \$1,145 | 89% | 0.09 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 300 Tons | Mining | HVAC | New | unit (ton) | 12,707 | 1.0% | 0.03 | 15 | \$224 | 89% | 0.30 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 300 Tons | Mining | HVAC | ROB | unit (ton) | 12,707 | 1.4% | 0.04 | 15 | \$205 | 89% | 0.46 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 500 Tons | Mining | HVAC | Early | unit (ton) | 12,707 | 1.4% | 0.04 | 15 | \$1,356 | 89% | 0.07 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 500 Tons | Mining | HVAC | New | unit (ton) | 12,707 | 0.9% | 0.03 | 15 | \$571 | 89% | 0.11 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 500 Tons | Mining | HVAC | ROB | unit (ton) | 12,707 | 1.4% | 0.04 | 15 | \$517 | 89% | 0.19 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 600 Tons | Mining | HVAC | Early | unit (ton) | 12,707 | 1.4% | 0.04 | 15 | \$1,306 | 89% | 0.07 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 600 Tons | Mining | HVAC | New | unit (ton) | 12,707 | 0.9% | 0.03 | 15 | \$496 | 89% | 0.12 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 600 Tons | Mining | HVAC | ROB | unit (ton) | 12,707 | 1.4% | 0.04 | 15 | \$449 | 89% | 0.21 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 100 Tons | Mining | HVAC | Early | unit (ton) | 12,707 | 1.8% | 0.05 | 15 | \$1,407 | 89% | 0.09 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 100 Tons | Mining | HVAC | New | unit (ton) | 12,707 | 0.5% | 0.02 | 15 | \$871 | 89% | 0.04 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 100 Tons | Mining | HVAC | ROB | unit (ton) | 12,707 | 1.8% | 0.05 | 15 | \$677 | 89% | 0.18 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 175 Tons | Mining | HVAC | Early | unit (ton) | 12,707 | 2.1% | 0.06 | 15 | \$1,294 | 89% | 0.12 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 175 Tons | Mining | HVAC | New | unit (ton) | 12,707 | 0.8% | 0.02 | 15 | \$519 | 89% | 0.10 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 175 Tons | Mining | HVAC | ROB | unit (ton) | 12,707 | 0.8% | 0.02 | 15 | \$519 | 89% | 0.10 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 300 Tons | Mining | HVAC | Early | unit (ton) | 12,707 | 2.4% | 0.07 | 15 | \$1,097 | 89% | 0.15 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 300 Tons | Mining | HVAC | New | unit (ton) | 12,707 | 0.9% | 0.03 | 15 | \$276 | 89% | 0.22 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 300 Tons | Mining | HVAC | ROB | unit (ton) | 12,707 | 2.4% | 0.07 | 15 | \$197 | 89% | 0.78 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 50 Tons | Mining | HVAC | Early | unit (ton) | 12,707 | 1.8% | 0.05 | 15 | \$1,086 | 89% | 0.12 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 50 Tons | Mining | HVAC | New | unit (ton) | 12,707 | 0.7% | 0.02 | 15 | \$304 | 89% | 0.16 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 50 Tons | Mining | HVAC | ROB | unit (ton) | 12,707 | 1.8% | 0.05 | 15 | \$241 | 89% | 0.50 |
| FE-Penn Power | HVAC Diagnostic/Air Conditioner Tune Up | Mining | HVAC | Existing | building | 12,707 | 2.9% | 0.07 | 5 | \$135 | 55% | 0.56 |
| FE-Penn Power | HVAC Diagnostic/Air Conditioner Tune Up | Mining | HVAC | New | building | 12,707 | 0.6% | 0.03 | 5 | \$81 | 51% | 0.27 |
| FE-Penn Power | Outside Air Economizer | Mining | HVAC | Existing | building | 12,707 | 1.1% | 0.04 | 10 | \$46,687 | 82% | 0.00 |
| FE-Penn Power | Outside Air Economizer | Mining | HVAC | New | building | 12,707 | 1.1% | 0.04 | 10 | \$46,687 | 82% | 0.00 |
| FE-Penn Power | Room AC (with louvered sides) | Mining | HVAC | Early | unit (ton) | 12,707 | 7.7% | 0.22 | 9 | \$996 | 78% | 0.36 |
| FE-Penn Power | Room AC (with louvered sides) | Mining | HVAC | New | unit (ton) | 12,707 | 2.6% | 0.07 | 9 | \$55 | 78% | 1.66 |
| FE-Penn Power | Room AC (with louvered sides) | Mining | HVAC | ROB | unit (ton) | 12,707 | 2.6% | 0.07 | 9 | \$55 | 78% | 1.66 |
| FE-Penn Power | Variable Refrigerant Flow Heat Pump | Mining | HVAC | New | measure | 12,707 | 0.1% | 0.00 | 13 | \$94 | 43% | 0.08 |
| FE-Penn Power | Variable Refrigerant Flow Heat Pump | Mining | HVAC | ROB | measure | 12,707 | 0.1% | 0.00 | 13 | \$94 | 43% | 0.08 |
| FE-Penn Power | VFD on Cooling Tower Fan | Mining | HVAC | Early | motor | 12,707 | 21% | 0.80 | 15 | \$587 | 15% | 2.07 |
| FE-Penn Power | VFD on Cooling Tower Fan | Mining | HVAC | New | motor | 12,707 | 22% | 0.80 | 15 | \$598 | 15% | 2.06 |
| FE-Penn Power | VFD on Cooling Tower Fan | Mining | HVAC | ROB | motor | 12,707 | 22% | 0.80 | 15 | \$598 | 15% | 2.06 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Mining | HVAC | Existing | building | 12,707 | 19% | 0.61 | 15 | \$9,039 | 26% | 0.15 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Mining | HVAC | New | building | 12,707 | 0.6% | 0.02 | 15 | \$6,933 | 94% | 0.01 |
| FE-Penn Power | Water Source Heat Pump (4 ton) | Mining | HVAC | Early | heat pump | 12,707 | 1.5% | 0.04 | 15 | \$2,160 | 28% | 0.05 |
| FE-Penn Power | Water Source Heat Pump (4 ton) | Mining | HVAC | New | heat pump | 12,707 | 1.1% | 0.03 | 15 | \$1,053 | 28% | 0.07 |
| FE-Penn Power | Water Source Heat Pump (4 ton) | Mining | HVAC | ROB | heat pump | 12,707 | 1.1% | 0.03 | 15 | \$1,053 | 28% | 0.07 |
| FE-Penn Power | Efficient Metal Halide (High Bay) | Mining | Lighting | Early | end use | 10,324 | 42% | 0.00 | 9 | \$1,613 | 53% | 0.67 |
| FE-Penn Power | Efficient Metal Halide (High Bay) | Mining | Lighting | New | end use | 10,324 | 41% | 0.00 | 13 | \$43,089 | 61% | 0.04 |
| FE-Penn Power | Efficient Metal Halide (High Bay) | Mining | Lighting | ROB | end use | 10,324 | 41% | 0.00 | 13 | \$32,931 | 61% | 0.05 |
| FE-Penn Power | Induction (High Bay) | Mining | Lighting | Early | end use | 10,324 | 94% | 0.00 | 13 | \$4,800 | 95% | 0.68 |
| FE-Penn Power | Induction (High Bay) | Mining | Lighting | New | end use | 10,324 | 94% | 0.00 | 13 | \$4,494 | 95% | 0.72 |
| FE-Penn Power | Induction (High Bay) | Mining | Lighting | ROB | end use | 10,324 | 94% | 0.00 | 13 | \$3,416 | 95% | 0.92 |
| FE-Penn Power | LED (High Bay) | Mining | Lighting | Early | end use | 10,324 | 69% | 0.00 | 14 | \$5,650 | 95% | 0.47 |
| FE-Penn Power | LED (High Bay) | Mining | Lighting | New | end use | 10,324 | 55% | 0.00 | 14 | \$6,272 | 95% | 0.35 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---------------------------------------|---------|----------|----------|---------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | LED (High Bay) | Mining | Lighting | ROB | end use | 10,324 | 59% | 0.00 | 14 | \$4,132 | 95% | 0.54 |
| FE-Penn Power | Lighting Controls | Mining | Lighting | Existing | end use | 10,324 | 20% | 0.00 | 6 | \$38,702 | 16% | 0.01 |
| FE-Penn Power | Lighting Controls | Mining | Lighting | New | end use | 10,324 | 12% | 0.00 | 10 | \$51,487 | 11% | 0.01 |
| FE-Penn Power | Linear Fluorescent (High Bay) | Mining | Lighting | Early | end use | 10,324 | 17% | 0.00 | 14 | \$1,181 | 98% | 0.54 |
| FE-Penn Power | Linear Fluorescent (High Bay) | Mining | Lighting | New | end use | 10,324 | 13% | 0.00 | 14 | \$375 | 91% | 1.15 |
| FE-Penn Power | Linear Fluorescent (High Bay) | Mining | Lighting | ROB | end use | 10,324 | 13% | 0.00 | 14 | \$240 | 91% | 1.66 |
| FE-Penn Power | Metal Halide (High Bay) | Mining | Lighting | Early | end use | 10,324 | 62% | 0.00 | 13 | \$7,097 | 38% | 0.33 |
| FE-Penn Power | Metal Halide (High Bay) | Mining | Lighting | New | end use | 10,324 | 73% | 0.00 | 13 | \$1,697 | 38% | 1.30 |
| FE-Penn Power | Metal Halide (High Bay) | Mining | Lighting | ROB | end use | 10,324 | 73% | 0.00 | 13 | \$1,290 | 38% | 1.59 |
| FE-Penn Power | Screw Base CFL | Mining | Lighting | Early | end use | 10,324 | 80% | 0.00 | 7 | \$2,805 | 17% | 0.60 |
| FE-Penn Power | Screw Base CFL | Mining | Lighting | New | end use | 10,324 | 73% | 0.00 | 9 | \$2,292 | 18% | 0.79 |
| FE-Penn Power | Screw Base CFL | Mining | Lighting | ROB | end use | 10,324 | 73% | 0.00 | 9 | \$1,919 | 17% | 0.91 |
| FE-Penn Power | Screw Base LED | Mining | Lighting | Early | end use | 10,324 | 76% | 0.00 | 9 | \$1,721 | 21% | 1.06 |
| FE-Penn Power | Screw Base LED | Mining | Lighting | New | end use | 10,324 | 77% | 0.00 | 9 | \$959 | 20% | 1.61 |
| FE-Penn Power | Screw Base LED | Mining | Lighting | ROB | end use | 10,324 | 77% | 0.00 | 9 | \$761 | 21% | 1.85 |
| FE-Penn Power | T8 High Performance Linear Florescent | Mining | Lighting | Early | end use | 10,324 | 36% | 0.00 | 14 | \$988 | 71% | 1.22 |
| FE-Penn Power | T8 High Performance Linear Florescent | Mining | Lighting | New | end use | 10,324 | 26% | 0.00 | 14 | \$353 | 76% | 2.05 |
| FE-Penn Power | T8 High Performance Linear Florescent | Mining | Lighting | ROB | end use | 10,324 | 26% | 0.00 | 14 | \$269 | 76% | 2.42 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 1-15 HP | Mining | Motors | Early | end use | 17,156 | 0.9% | 0.02 | 15 | \$262 | 81% | 0.28 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 1-15 HP | Mining | Motors | New | end use | 17,156 | 0.9% | 0.02 | 15 | \$262 | 81% | 0.28 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 1-15 HP | Mining | Motors | ROB | end use | 17,156 | 0.9% | 0.02 | 15 | \$262 | 81% | 0.28 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 125-200 HP | Mining | Motors | Early | end use | 17,156 | 0.7% | 0.02 | 15 | \$159 | 73% | 0.37 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 125-200 HP | Mining | Motors | New | end use | 17,156 | 0.8% | 0.02 | 15 | \$159 | 73% | 0.37 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 125-200 HP | Mining | Motors | ROB | end use | 17,156 | 0.8% | 0.02 | 15 | \$159 | 73% | 0.37 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 20-40 HP | Mining | Motors | Early | end use | 17,156 | 0.5% | 0.01 | 15 | \$61 | 81% | 0.57 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 20-40 HP | Mining | Motors | New | end use | 17,156 | 0.5% | 0.01 | 15 | \$61 | 81% | 0.58 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 20-40 HP | Mining | Motors | ROB | end use | 17,156 | 0.5% | 0.01 | 15 | \$61 | 81% | 0.57 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 250-500 HP | Mining | Motors | Early | end use | 17,156 | 0.4% | 0.01 | 15 | \$20 | 73% | 1.35 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 250-500 HP | Mining | Motors | New | end use | 17,156 | 0.4% | 0.01 | 15 | \$20 | 73% | 1.33 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 250-500 HP | Mining | Motors | ROB | end use | 17,156 | 0.4% | 0.01 | 15 | \$20 | 73% | 1.35 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 50-100 HP | Mining | Motors | Early | end use | 17,156 | 0.9% | 0.02 | 15 | \$30 | 47% | 1.85 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 50-100 HP | Mining | Motors | New | end use | 17,156 | 0.9% | 0.02 | 15 | \$30 | 47% | 1.86 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 50-100 HP | Mining | Motors | ROB | end use | 17,156 | 0.9% | 0.02 | 15 | \$30 | 47% | 1.87 |
| FE-Penn Power | HE Motors | Mining | Motors | Early | end use | 17,156 | 2.0% | 0.05 | 15 | \$102 | 38% | 1.34 |
| FE-Penn Power | HE Motors | Mining | Motors | New | end use | 17,156 | 2.0% | 0.05 | 15 | \$102 | 38% | 1.34 |
| FE-Penn Power | HE Motors | Mining | Motors | ROB | end use | 17,156 | 2.0% | 0.05 | 15 | \$102 | 38% | 1.34 |
| FE-Penn Power | Improved Controls - Motors | Mining | Motors | Existing | end use | 17,156 | 4.0% | 0.10 | 10 | \$75 | 13% | 2.03 |
| FE-Penn Power | Improved Controls - Motors | Mining | Motors | New | end use | 17,156 | 4.0% | 0.10 | 10 | \$75 | 13% | 2.03 |
| FE-Penn Power | Material Handling | Mining | Motors | Early | end use | 17,156 | 18% | 0.45 | 10 | \$829 | 77% | 1.10 |
| FE-Penn Power | Material Handling | Mining | Motors | New | end use | 17,156 | 18% | 0.45 | 10 | \$829 | 77% | 1.10 |
| FE-Penn Power | Material Handling | Mining | Motors | ROB | end use | 17,156 | 18% | 0.45 | 10 | \$829 | 77% | 1.10 |
| FE-Penn Power | Material Handling VFD | Mining | Motors | Early | end use | 17,156 | 16% | 0.40 | 10 | \$574 | 77% | 1.32 |
| FE-Penn Power | Material Handling VFD | Mining | Motors | New | end use | 17,156 | 16% | 0.40 | 10 | \$574 | 77% | 1.32 |
| FE-Penn Power | Material Handling VFD | Mining | Motors | ROB | end use | 17,156 | 16% | 0.40 | 10 | \$574 | 77% | 1.32 |
| FE-Penn Power | Motor Management Plan | Mining | Motors | Existing | end use | 17,156 | 2.9% | 0.07 | 10 | \$35 | 73% | 2.60 |
| FE-Penn Power | Motor Management Plan | Mining | Motors | New | end use | 17,156 | 2.9% | 0.07 | 10 | \$35 | 73% | 2.60 |
| FE-Penn Power | Motors Other | Mining | Motors | Existing | end use | 17,156 | 1.1% | 0.03 | 15 | \$3.4 | 83% | 5.48 |
| FE-Penn Power | Motors Other | Mining | Motors | New | end use | 17,156 | 1.1% | 0.03 | 15 | \$3.4 | 83% | 5.48 |
| FE-Penn Power | Motors: Rewind 101-200 HP | Mining | Motors | Existing | end use | 17,156 | 0.6% | 0.01 | 10 | \$22 | 27% | 1.25 |
| FE-Penn Power | Motors: Rewind 101-200 HP | Mining | Motors | New | end use | 17,156 | 0.6% | 0.01 | 10 | \$22 | 27% | 1.24 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|---------------|------------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Motors: Rewind 201-500 HP | Mining | Motors | Existing | end use | 17,156 | 0.6% | 0.01 | 8 | \$14 | 27% | 1.48 |
| FE-Penn Power | Motors: Rewind 201-500 HP | Mining | Motors | New | end use | 17,156 | 0.6% | 0.01 | 8 | \$14 | 27% | 1.47 |
| FE-Penn Power | Motors: Rewind 20-50 HP | Mining | Motors | Existing | end use | 17,156 | 1.0% | 0.03 | 11 | \$64 | 42% | 0.92 |
| FE-Penn Power | Motors: Rewind 20-50 HP | Mining | Motors | New | end use | 17,156 | 1.0% | 0.03 | 11 | \$64 | 42% | 0.92 |
| FE-Penn Power | Motors: Rewind 500+ HP | Mining | Motors | Existing | end use | 17,156 | 0.6% | 0.01 | 8 | \$9.7 | 11% | 1.84 |
| FE-Penn Power | Motors: Rewind 500+ HP | Mining | Motors | New | end use | 17,156 | 0.6% | 0.01 | 8 | \$9.7 | 11% | 1.85 |
| FE-Penn Power | Motors: Rewind 51-100 HP | Mining | Motors | Existing | end use | 17,156 | 0.6% | 0.01 | 9 | \$31 | 42% | 0.92 |
| FE-Penn Power | Motors: Rewind 51-100 HP | Mining | Motors | New | end use | 17,156 | 0.6% | 0.01 | 9 | \$31 | 42% | 0.92 |
| FE-Penn Power | Switch from Belt drive to Direct Drive | Mining | Motors | Early | end use | 17,156 | 7.5% | 0.18 | 12 | \$275 | 30% | 1.45 |
| FE-Penn Power | Switch from Belt drive to Direct Drive | Mining | Motors | New | end use | 17,156 | 7.5% | 0.18 | 12 | \$275 | 30% | 1.45 |
| FE-Penn Power | Switch from Belt drive to Direct Drive | Mining | Motors | ROB | end use | 17,156 | 7.5% | 0.18 | 12 | \$275 | 30% | 1.45 |
| FE-Penn Power | Synchronous Belts | Mining | Motors | Early | end use | 17,156 | 1.2% | 0.03 | 10 | \$25 | 30% | 1.86 |
| FE-Penn Power | Synchronous Belts | Mining | Motors | New | end use | 17,156 | 1.2% | 0.03 | 10 | \$25 | 30% | 1.86 |
| FE-Penn Power | Synchronous Belts | Mining | Motors | ROB | end use | 17,156 | 1.2% | 0.03 | 10 | \$25 | 30% | 1.86 |
| FE-Penn Power | Air Compressor Demand Reduction | Mining | Process Air Compressor | Existing | end use | 382 | 26% | 0.01 | 10 | \$5.7 | 52% | 2.80 |
| FE-Penn Power | Air Compressor Demand Reduction | Mining | Process Air Compressor | New | end use | 382 | 26% | 0.01 | 10 | \$5.7 | 52% | 2.80 |
| FE-Penn Power | Cooling Tower Optimization | Mining | Process Cooling | Existing | building | 6,223 | 20% | 0.45 | 10 | \$38 | 15% | 4.44 |
| FE-Penn Power | VFD on Cooling Tower Fan | Mining | Process Cooling | Early | motor | 6,223 | 21% | 0.39 | 15 | \$287 | 20% | 1.93 |
| FE-Penn Power | VFD on Cooling Tower Fan | Mining | Process Cooling | New | motor | 6,223 | 22% | 0.39 | 15 | \$293 | 20% | 1.92 |
| FE-Penn Power | VFD on Cooling Tower Fan | Mining | Process Cooling | ROB | motor | 6,223 | 22% | 0.39 | 15 | \$293 | 20% | 1.92 |
| FE-Penn Power | Cooling Tower Optimization | Mining | Process Refrigeration | Existing | building | 3,197 | 20% | 0.23 | 10 | \$20 | 15% | 4.44 |
| FE-Penn Power | VFD on Cooling Tower Fan | Mining | Process Refrigeration | Early | motor | 3,197 | 21% | 0.20 | 15 | \$148 | 20% | 1.93 |
| FE-Penn Power | VFD on Cooling Tower Fan | Mining | Process Refrigeration | New | motor | 3,197 | 22% | 0.20 | 15 | \$150 | 20% | 1.92 |
| FE-Penn Power | VFD on Cooling Tower Fan | Mining | Process Refrigeration | ROB | motor | 3,197 | 22% | 0.20 | 15 | \$150 | 20% | 1.92 |
| FE-Penn Power | Agricultural Exhaust Fans (Rate 21 CFM) | Other Non-Mfg | Fans | Early | end use | 9,031 | 5.0% | 0.05 | 15 | \$115 | 11% | 1.53 |
| FE-Penn Power | Agricultural Exhaust Fans (Rate 21 CFM) | Other Non-Mfg | Fans | New | end use | 9,031 | 5.0% | 0.05 | 15 | \$115 | 11% | 1.53 |
| FE-Penn Power | Agricultural Exhaust Fans (Rate 21 CFM) | Other Non-Mfg | Fans | ROB | end use | 9,031 | 5.0% | 0.05 | 15 | \$115 | 11% | 1.52 |
| FE-Penn Power | Circulating Fans | Other Non-Mfg | Fans | Early | end use | 9,031 | 5.0% | 0.05 | 10 | \$55 | 53% | 1.94 |
| FE-Penn Power | Circulating Fans | Other Non-Mfg | Fans | New | end use | 9,031 | 5.0% | 0.05 | 10 | \$55 | 53% | 1.94 |
| FE-Penn Power | Circulating Fans | Other Non-Mfg | Fans | ROB | end use | 9,031 | 5.0% | 0.05 | 10 | \$55 | 53% | 1.94 |
| FE-Penn Power | Facility Energy Management | Other Non-Mfg | Fans | Existing | end use | 9,031 | 1.9% | 0.02 | 2 | \$3.5 | 61% | 1.11 |
| FE-Penn Power | Facility Energy Management | Other Non-Mfg | Fans | New | end use | 9,031 | 1.9% | 0.02 | 2 | \$3.5 | 61% | 1.11 |
| FE-Penn Power | Fan Equipment Upgrade | Other Non-Mfg | Fans | Early | end use | 9,031 | 35% | 0.38 | 10 | \$271 | 53% | 2.38 |
| FE-Penn Power | Fan Equipment Upgrade | Other Non-Mfg | Fans | New | end use | 9,031 | 35% | 0.38 | 10 | \$271 | 53% | 2.38 |
| FE-Penn Power | Fan Equipment Upgrade | Other Non-Mfg | Fans | ROB | end use | 9,031 | 35% | 0.38 | 10 | \$271 | 53% | 2.38 |
| FE-Penn Power | Fan System Optimization | Other Non-Mfg | Fans | Existing | end use | 9,031 | 7.3% | 0.08 | 10 | \$123 | 66% | 1.45 |
| FE-Penn Power | Fan System Optimization | Other Non-Mfg | Fans | New | end use | 9,031 | 7.3% | 0.08 | 10 | \$123 | 66% | 1.45 |
| FE-Penn Power | HE Motors | Other Non-Mfg | Fans | Early | end use | 9,031 | 2.0% | 0.02 | 15 | \$54 | 61% | 1.37 |
| FE-Penn Power | HE Motors | Other Non-Mfg | Fans | New | end use | 9,031 | 2.0% | 0.02 | 15 | \$54 | 61% | 1.37 |
| FE-Penn Power | HE Motors | Other Non-Mfg | Fans | ROB | end use | 9,031 | 2.0% | 0.02 | 15 | \$54 | 61% | 1.37 |
| FE-Penn Power | High Volume Low Speed Fans | Other Non-Mfg | Fans | Early | end use | 9,031 | 47% | 0.50 | 15 | \$6,789 | 53% | 0.29 |
| FE-Penn Power | High Volume Low Speed Fans | Other Non-Mfg | Fans | New | end use | 9,031 | 47% | 0.50 | 15 | \$6,789 | 53% | 0.29 |
| FE-Penn Power | High Volume Low Speed Fans | Other Non-Mfg | Fans | ROB | end use | 9,031 | 47% | 0.50 | 15 | \$6,789 | 53% | 0.29 |
| FE-Penn Power | Improved Controls - Fans | Other Non-Mfg | Fans | Existing | end use | 9,031 | 7.1% | 0.08 | 10 | \$35 | 69% | 2.98 |
| FE-Penn Power | Improved Controls - Fans | Other Non-Mfg | Fans | New | end use | 9,031 | 7.1% | 0.08 | 10 | \$35 | 69% | 2.98 |
| FE-Penn Power | Properly Sized Fans | Other Non-Mfg | Fans | Early | end use | 9,031 | 13% | 0.14 | 10 | \$185 | 32% | 1.65 |
| FE-Penn Power | Properly Sized Fans | Other Non-Mfg | Fans | New | end use | 9,031 | 13% | 0.14 | 10 | \$185 | 32% | 1.65 |
| FE-Penn Power | Properly Sized Fans | Other Non-Mfg | Fans | ROB | end use | 9,031 | 13% | 0.14 | 10 | \$185 | 32% | 1.65 |
| FE-Penn Power | Synchronous Belts | Other Non-Mfg | Fans | Early | end use | 9,031 | 1.2% | 0.01 | 10 | \$13 | 32% | 1.89 |
| FE-Penn Power | Synchronous Belts | Other Non-Mfg | Fans | New | end use | 9,031 | 1.2% | 0.01 | 10 | \$13 | 32% | 1.89 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|---------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Synchronous Belts | Other Non-Mfg | Fans | ROB | end use | 9,031 | 1.2% | 0.01 | 10 | \$13 | 32% | 1.89 |
| FE-Penn Power | <65k BTU/hr 14 SEER Air Conditioner | Other Non-Mfg | HVAC | Early | unit (ton) | 30,838 | 9.2% | 0.73 | 15 | \$5,620 | 28% | 0.28 |
| FE-Penn Power | <65k BTU/hr 14 SEER Air Conditioner | Other Non-Mfg | HVAC | New | unit (ton) | 30,838 | 4.1% | 0.33 | 15 | \$1,362 | 28% | 0.50 |
| FE-Penn Power | <65k BTU/hr 14 SEER Air Conditioner | Other Non-Mfg | HVAC | ROB | unit (ton) | 30,838 | 4.1% | 0.33 | 15 | \$1,362 | 28% | 0.50 |
| FE-Penn Power | <65k BTU/hr 15 SEER Air Conditioner | Other Non-Mfg | HVAC | Early | unit (ton) | 30,838 | 12% | 0.99 | 15 | \$6,626 | 28% | 0.32 |
| FE-Penn Power | <65k BTU/hr 15 SEER Air Conditioner | Other Non-Mfg | HVAC | New | unit (ton) | 30,838 | 7.7% | 0.62 | 15 | \$2,868 | 28% | 0.45 |
| FE-Penn Power | <65k BTU/hr 15 SEER Air Conditioner | Other Non-Mfg | HVAC | ROB | unit (ton) | 30,838 | 7.7% | 0.62 | 15 | \$2,868 | 28% | 0.45 |
| FE-Penn Power | <65k BTU/hr 16 SEER Air Conditioner | Other Non-Mfg | HVAC | Early | unit (ton) | 30,838 | 15% | 1.22 | 15 | \$7,631 | 29% | 0.34 |
| FE-Penn Power | <65k BTU/hr 16 SEER Air Conditioner | Other Non-Mfg | HVAC | New | unit (ton) | 30,838 | 11% | 0.87 | 15 | \$4,374 | 29% | 0.42 |
| FE-Penn Power | <65k BTU/hr 16 SEER Air Conditioner | Other Non-Mfg | HVAC | ROB | unit (ton) | 30,838 | 11% | 0.87 | 15 | \$4,374 | 29% | 0.42 |
| FE-Penn Power | >760k min 10.2 EER Air Conditioner | Other Non-Mfg | HVAC | Early | unit (ton) | 30,838 | 2.1% | 0.17 | 15 | \$9,787 | 35% | 0.04 |
| FE-Penn Power | >760k min 10.2 EER Air Conditioner | Other Non-Mfg | HVAC | New | unit (ton) | 30,838 | 2.8% | 0.23 | 15 | \$885 | 35% | 0.53 |
| FE-Penn Power | >760k min 10.2 EER Air Conditioner | Other Non-Mfg | HVAC | ROB | unit (ton) | 30,838 | 2.8% | 0.23 | 15 | \$885 | 35% | 0.53 |
| FE-Penn Power | 135-240k min 12 EER Air Conditioner | Other Non-Mfg | HVAC | Early | unit (ton) | 30,838 | 10% | 0.84 | 15 | \$10,598 | 35% | 0.17 |
| FE-Penn Power | 135-240k min 12 EER Air Conditioner | Other Non-Mfg | HVAC | New | unit (ton) | 30,838 | 5.8% | 0.46 | 15 | \$1,251 | 35% | 0.74 |
| FE-Penn Power | 135-240k min 12 EER Air Conditioner | Other Non-Mfg | HVAC | ROB | unit (ton) | 30,838 | 5.8% | 0.46 | 15 | \$1,251 | 35% | 0.74 |
| FE-Penn Power | 240k-760k min 11 EER Air Conditioner | Other Non-Mfg | HVAC | Early | unit (ton) | 30,838 | 5.2% | 0.42 | 15 | \$9,793 | 35% | 0.09 |
| FE-Penn Power | 240k-760k min 11 EER Air Conditioner | Other Non-Mfg | HVAC | New | unit (ton) | 30,838 | 5.3% | 0.43 | 15 | \$1,049 | 35% | 0.81 |
| FE-Penn Power | 240k-760k min 11 EER Air Conditioner | Other Non-Mfg | HVAC | ROB | unit (ton) | 30,838 | 5.3% | 0.43 | 15 | \$1,049 | 35% | 0.81 |
| FE-Penn Power | 65k-135k BTU/hr 12 EER Air Conditioner | Other Non-Mfg | HVAC | Early | unit (ton) | 30,838 | 9.7% | 0.78 | 15 | \$10,851 | 35% | 0.16 |
| FE-Penn Power | 65k-135k BTU/hr 12 EER Air Conditioner | Other Non-Mfg | HVAC | New | unit (ton) | 30,838 | 3.8% | 0.31 | 15 | \$1,548 | 35% | 0.42 |
| FE-Penn Power | 65k-135k BTU/hr 12 EER Air Conditioner | Other Non-Mfg | HVAC | ROB | unit (ton) | 30,838 | 3.8% | 0.31 | 15 | \$1,548 | 35% | 0.42 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Other Non-Mfg | HVAC | Existing | building | 30,838 | 5.9% | 0.46 | 15 | \$93,435 | 71% | 0.01 |
| FE-Penn Power | Ceiling Insualtions (Going upto R 20) | Other Non-Mfg | HVAC | New | building | 30,838 | 3.7% | 0.29 | 15 | \$88,813 | 94% | 0.01 |
| FE-Penn Power | Chiller Tuneup/Diagnostics | Other Non-Mfg | HVAC | Existing | building | 30,838 | 8.0% | 0.90 | 10 | \$78,744 | 59% | 0.02 |
| FE-Penn Power | Chiller Tuneup/Diagnostics | Other Non-Mfg | HVAC | New | building | 30,838 | 8.0% | 0.91 | 10 | \$78,744 | 59% | 0.02 |
| FE-Penn Power | Cooling Tower Optimization | Other Non-Mfg | HVAC | Existing | building | 30,838 | 20% | 2.21 | 10 | \$189 | 69% | 4.73 |
| FE-Penn Power | Duct Insulation, Add R8 | Other Non-Mfg | HVAC | Existing | building | 30,838 | 1.5% | 0.10 | 15 | \$245 | 18% | 0.94 |
| FE-Penn Power | Duct Insulation, Add R8 | Other Non-Mfg | HVAC | New | building | 30,838 | 1.5% | 0.10 | 15 | \$245 | 9% | 0.94 |
| FE-Penn Power | Ductless Heat Pump | Other Non-Mfg | HVAC | Early | heat pump | 30,838 | 0.8% | 0.06 | 15 | \$2,438 | 83% | 0.06 |
| FE-Penn Power | Ductless Heat Pump | Other Non-Mfg | HVAC | New | heat pump | 30,838 | 0.4% | 0.03 | 15 | \$708 | 83% | 0.10 |
| FE-Penn Power | Ductless Heat Pump | Other Non-Mfg | HVAC | ROB | heat pump | 30,838 | 0.4% | 0.03 | 15 | \$708 | 83% | 0.10 |
| FE-Penn Power | DX Coil Cleaning | Other Non-Mfg | HVAC | Existing | building | 30,838 | 13% | 1.41 | 1 | \$296 | 73% | 0.50 |
| FE-Penn Power | DX Coil Cleaning | Other Non-Mfg | HVAC | New | building | 30,838 | 13% | 1.41 | 1 | \$296 | 73% | 0.50 |
| FE-Penn Power | Efficient Unit Heating System | Other Non-Mfg | HVAC | Early | heater | 30,838 | 6.9% | 0.02 | 15 | \$1,665 | 83% | 0.52 |
| FE-Penn Power | Efficient Unit Heating System | Other Non-Mfg | HVAC | New | heater | 30,838 | 4.0% | 0.01 | 15 | \$1,136 | 83% | 0.44 |
| FE-Penn Power | Efficient Unit Heating System | Other Non-Mfg | HVAC | ROB | heater | 30,838 | 4.0% | 0.01 | 15 | \$1,136 | 83% | 0.44 |
| FE-Penn Power | Ground Source Heat Pump (Closed Loop) | Other Non-Mfg | HVAC | Early | heat pump | 30,838 | 1.3% | 0.09 | 15 | \$5,062 | 19% | 0.04 |
| FE-Penn Power | Ground Source Heat Pump (Closed Loop) | Other Non-Mfg | HVAC | New | heat pump | 30,838 | 1.0% | 0.07 | 15 | \$1,999 | 19% | 0.09 |
| FE-Penn Power | Ground Source Heat Pump (Closed Loop) | Other Non-Mfg | HVAC | ROB | heat pump | 30,838 | 1.0% | 0.07 | 15 | \$1,999 | 19% | 0.09 |
| FE-Penn Power | Ground Source Heat Pump (Open Loop) | Other Non-Mfg | HVAC | Early | heat pump | 30,838 | 1.3% | 0.09 | 15 | \$3,242 | 19% | 0.07 |
| FE-Penn Power | Ground Source Heat Pump (Open Loop) | Other Non-Mfg | HVAC | New | heat pump | 30,838 | 1.0% | 0.07 | 15 | \$69 | 19% | 1.92 |
| FE-Penn Power | Ground Source Heat Pump (Open Loop) | Other Non-Mfg | HVAC | ROB | heat pump | 30,838 | 1.0% | 0.07 | 15 | \$69 | 19% | 1.92 |
| FE-Penn Power | HE Air Cooled Chiller, 100 Tons | Other Non-Mfg | HVAC | Early | unit (ton) | 30,838 | 1.5% | 0.10 | 15 | \$35,873 | 89% | 0.01 |
| FE-Penn Power | HE Air Cooled Chiller, 100 Tons | Other Non-Mfg | HVAC | New | unit (ton) | 30,838 | 0.4% | 0.03 | 15 | \$5,226 | 89% | 0.01 |
| FE-Penn Power | HE Air Cooled Chiller, 100 Tons | Other Non-Mfg | HVAC | ROB | unit (ton) | 30,838 | 0.4% | 0.03 | 15 | \$5,226 | 89% | 0.01 |
| FE-Penn Power | HE Air Cooled Chiller, 150 Tons | Other Non-Mfg | HVAC | Early | unit (ton) | 30,838 | 1.4% | 0.10 | 15 | \$30,986 | 89% | 0.01 |
| FE-Penn Power | HE Air Cooled Chiller, 150 Tons | Other Non-Mfg | HVAC | New | unit (ton) | 30,838 | 0.3% | 0.02 | 15 | \$2,566 | 89% | 0.02 |
| FE-Penn Power | HE Air Cooled Chiller, 150 Tons | Other Non-Mfg | HVAC | ROB | unit (ton) | 30,838 | 0.3% | 0.02 | 15 | \$2,566 | 89% | 0.02 |
| FE-Penn Power | HE Air Source Heat Pump (12 EER, 3.6 COP) | Other Non-Mfg | HVAC | Early | heat pump | 30,838 | 1.4% | 0.09 | 12 | \$1,322 | 81% | 0.15 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---|---------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | HE Air Source Heat Pump (12 EER, 3.6 COP) | Other Non-Mfg | HVAC | Early | heat pump | 30,838 | 1.1% | 0.08 | 12 | \$965 | 81% | 0.17 |
| FE-Penn Power | HE Air Source Heat Pump (12 EER, 3.6 COP) | Other Non-Mfg | HVAC | New | heat pump | 30,838 | 1.0% | 0.07 | 12 | \$590 | 81% | 0.24 |
| FE-Penn Power | HE Air Source Heat Pump (12 EER, 3.6 COP) | Other Non-Mfg | HVAC | New | heat pump | 30,838 | 0.8% | 0.05 | 12 | \$206 | 81% | 0.50 |
| FE-Penn Power | HE Air Source Heat Pump (12 EER, 3.6 COP) | Other Non-Mfg | HVAC | ROB | heat pump | 30,838 | 1.0% | 0.07 | 12 | \$590 | 81% | 0.24 |
| FE-Penn Power | HE Air Source Heat Pump (12 EER, 3.6 COP) | Other Non-Mfg | HVAC | ROB | heat pump | 30,838 | 0.8% | 0.05 | 12 | \$206 | 81% | 0.50 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 175 Tons | Other Non-Mfg | HVAC | Early | unit (ton) | 30,838 | 1.6% | 0.11 | 15 | \$2,846 | 89% | 0.09 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 175 Tons | Other Non-Mfg | HVAC | New | unit (ton) | 30,838 | 0.9% | 0.06 | 15 | \$947 | 89% | 0.16 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 175 Tons | Other Non-Mfg | HVAC | ROB | unit (ton) | 30,838 | 0.9% | 0.06 | 15 | \$947 | 89% | 0.16 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 300 Tons | Other Non-Mfg | HVAC | Early | unit (ton) | 30,838 | 1.4% | 0.10 | 15 | \$2,780 | 89% | 0.09 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 300 Tons | Other Non-Mfg | HVAC | New | unit (ton) | 30,838 | 1.0% | 0.07 | 15 | \$543 | 89% | 0.30 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 300 Tons | Other Non-Mfg | HVAC | ROB | unit (ton) | 30,838 | 1.4% | 0.10 | 15 | \$499 | 89% | 0.46 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 500 Tons | Other Non-Mfg | HVAC | Early | unit (ton) | 30,838 | 1.4% | 0.10 | 15 | \$3,290 | 89% | 0.07 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 500 Tons | Other Non-Mfg | HVAC | New | unit (ton) | 30,838 | 0.9% | 0.06 | 15 | \$1,385 | 89% | 0.11 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 500 Tons | Other Non-Mfg | HVAC | ROB | unit (ton) | 30,838 | 1.4% | 0.10 | 15 | \$1,254 | 89% | 0.19 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 600 Tons | Other Non-Mfg | HVAC | Early | unit (ton) | 30,838 | 1.4% | 0.10 | 15 | \$3,169 | 89% | 0.07 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 600 Tons | Other Non-Mfg | HVAC | New | unit (ton) | 30,838 | 0.9% | 0.06 | 15 | \$1,204 | 89% | 0.12 |
| FE-Penn Power | HE Water Cooled Centrifugal Chiller, 600 Tons | Other Non-Mfg | HVAC | ROB | unit (ton) | 30,838 | 1.4% | 0.10 | 15 | \$1,090 | 89% | 0.21 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 100 Tons | Other Non-Mfg | HVAC | Early | unit (ton) | 30,838 | 1.8% | 0.12 | 15 | \$3,415 | 89% | 0.09 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 100 Tons | Other Non-Mfg | HVAC | New | unit (ton) | 30,838 | 0.5% | 0.04 | 15 | \$2,115 | 89% | 0.04 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 100 Tons | Other Non-Mfg | HVAC | ROB | unit (ton) | 30,838 | 1.8% | 0.12 | 15 | \$1,642 | 89% | 0.18 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 175 Tons | Other Non-Mfg | HVAC | Early | unit (ton) | 30,838 | 2.1% | 0.15 | 15 | \$3,141 | 89% | 0.12 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 175 Tons | Other Non-Mfg | HVAC | New | unit (ton) | 30,838 | 0.8% | 0.05 | 15 | \$1,260 | 89% | 0.10 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 175 Tons | Other Non-Mfg | HVAC | ROB | unit (ton) | 30,838 | 0.8% | 0.05 | 15 | \$1,260 | 89% | 0.10 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 300 Tons | Other Non-Mfg | HVAC | Early | unit (ton) | 30,838 | 2.4% | 0.17 | 15 | \$2,662 | 89% | 0.15 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 300 Tons | Other Non-Mfg | HVAC | New | unit (ton) | 30,838 | 0.9% | 0.06 | 15 | \$670 | 89% | 0.22 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 300 Tons | Other Non-Mfg | HVAC | ROB | unit (ton) | 30,838 | 2.4% | 0.17 | 15 | \$478 | 89% | 0.78 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 50 Tons | Other Non-Mfg | HVAC | Early | unit (ton) | 30,838 | 1.8% | 0.13 | 15 | \$2,635 | 89% | 0.12 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 50 Tons | Other Non-Mfg | HVAC | New | unit (ton) | 30,838 | 0.7% | 0.05 | 15 | \$738 | 89% | 0.16 |
| FE-Penn Power | HE Water Cooled Reciprocating Chiller, 50 Tons | Other Non-Mfg | HVAC | ROB | unit (ton) | 30,838 | 1.8% | 0.13 | 15 | \$585 | 89% | 0.50 |
| FE-Penn Power | Heat Reclaimer | Other Non-Mfg | HVAC | Existing | end use | 30,838 | 42% | 1.86 | 15 | \$1,764 | 15% | 2.49 |
| FE-Penn Power | Heat Reclaimer | Other Non-Mfg | HVAC | New | end use | 30,838 | 42% | 1.86 | 15 | \$1,764 | 15% | 2.49 |
| FE-Penn Power | Heat Recovery Ventilators | Other Non-Mfg | HVAC | Existing | end use | 30,838 | 4.1% | 0.18 | 10 | \$452 | 93% | 0.91 |
| FE-Penn Power | Heat Recovery Ventilators | Other Non-Mfg | HVAC | New | end use | 30,838 | 4.1% | 0.18 | 10 | \$452 | 93% | 0.91 |
| FE-Penn Power | HVAC Diagnostic/Air Conditioner Tune Up | Other Non-Mfg | HVAC | Existing | building | 30,838 | 2.9% | 0.18 | 5 | \$327 | 55% | 0.56 |
| FE-Penn Power | HVAC Diagnostic/Air Conditioner Tune Up | Other Non-Mfg | HVAC | New | building | 30,838 | 0.6% | 0.07 | 5 | \$196 | 51% | 0.27 |
| FE-Penn Power | Improved Controls - HVAC | Other Non-Mfg | HVAC | Existing | end use | 30,838 | 21% | 0.92 | 10 | \$324 | 76% | 3.21 |
| FE-Penn Power | Improved Controls - HVAC | Other Non-Mfg | HVAC | New | end use | 30,838 | 21% | 0.92 | 10 | \$324 | 76% | 3.21 |
| FE-Penn Power | Infrared Film for Greenhouses | Other Non-Mfg | HVAC | Existing | end use | 30,838 | 11% | 0.49 | 4 | \$716 | 5% | 0.69 |
| FE-Penn Power | Infrared Film for Greenhouses | Other Non-Mfg | HVAC | New | end use | 30,838 | 11% | 0.49 | 4 | \$716 | 5% | 0.69 |
| FE-Penn Power | Outside Air Economizer | Other Non-Mfg | HVAC | Existing | building | 30,838 | 1.1% | 0.09 | 10 | \$113,306 | 82% | 0.00 |
| FE-Penn Power | Outside Air Economizer | Other Non-Mfg | HVAC | New | building | 30,838 | 1.1% | 0.09 | 10 | \$113,306 | 82% | 0.00 |
| FE-Penn Power | Programmable Ventilation Controller | Other Non-Mfg | HVAC | Existing | end use | 30,838 | 0.1% | 0.00 | 10 | \$3.5 | 80% | 2.11 |
| FE-Penn Power | Programmable Ventilation Controller | Other Non-Mfg | HVAC | New | end use | 30,838 | 0.1% | 0.00 | 10 | \$3.5 | 80% | 2.12 |
| FE-Penn Power | Recommissioning | Other Non-Mfg | HVAC | Existing | end use | 30,838 | 5.0% | 0.22 | 10 | \$42 | 88% | 3.96 |
| FE-Penn Power | Recommissioning | Other Non-Mfg | HVAC | New | end use | 30,838 | 5.0% | 0.22 | 10 | \$42 | 88% | 3.96 |
| FE-Penn Power | Room AC (with louvered sides) | Other Non-Mfg | HVAC | Early | unit (ton) | 30,838 | 7.7% | 0.54 | 9 | \$2,418 | 78% | 0.36 |
| FE-Penn Power | Room AC (with louvered sides) | Other Non-Mfg | HVAC | New | unit (ton) | 30,838 | 2.6% | 0.18 | 9 | \$132 | 78% | 1.66 |
| FE-Penn Power | Room AC (with louvered sides) | Other Non-Mfg | HVAC | ROB | unit (ton) | 30,838 | 2.6% | 0.18 | 9 | \$132 | 78% | 1.66 |
| FE-Penn Power | Variable Refrigerant Flow Heat Pump | Other Non-Mfg | HVAC | New | measure | 30,838 | 0.1% | 0.01 | 13 | \$227 | 43% | 0.08 |
| FE-Penn Power | Variable Refrigerant Flow Heat Pump | Other Non-Mfg | HVAC | ROB | measure | 30,838 | 0.1% | 0.01 | 13 | \$227 | 43% | 0.08 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---------------------------------------|---------------|----------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | VFD on Cooling Tower Fan | Other Non-Mfg | HVAC | Early | motor | 30,838 | 21% | 1.94 | 15 | \$1,424 | 15% | 2.07 |
| FE-Penn Power | VFD on Cooling Tower Fan | Other Non-Mfg | HVAC | New | motor | 30,838 | 22% | 1.94 | 15 | \$1,451 | 15% | 2.06 |
| FE-Penn Power | VFD on Cooling Tower Fan | Other Non-Mfg | HVAC | ROB | motor | 30,838 | 22% | 1.94 | 15 | \$1,451 | 15% | 2.06 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Other Non-Mfg | HVAC | Existing | building | 30,838 | 19% | 1.47 | 15 | \$21,937 | 26% | 0.15 |
| FE-Penn Power | Wall Insualtions (Going upto R 21) | Other Non-Mfg | HVAC | New | building | 30,838 | 0.6% | 0.05 | 15 | \$16,827 | 94% | 0.01 |
| FE-Penn Power | Water Source Heat Pump (4 ton) | Other Non-Mfg | HVAC | Early | heat pump | 30,838 | 1.5% | 0.11 | 15 | \$5,242 | 28% | 0.05 |
| FE-Penn Power | Water Source Heat Pump (4 ton) | Other Non-Mfg | HVAC | New | heat pump | 30,838 | 1.1% | 0.08 | 15 | \$2,555 | 28% | 0.07 |
| FE-Penn Power | Water Source Heat Pump (4 ton) | Other Non-Mfg | HVAC | ROB | heat pump | 30,838 | 1.1% | 0.08 | 15 | \$2,555 | 28% | 0.07 |
| FE-Penn Power | Efficient Metal Halide (High Bay) | Other Non-Mfg | Lighting | Early | end use | 17,418 | 42% | 0.00 | 9 | \$2,722 | 53% | 0.67 |
| FE-Penn Power | Efficient Metal Halide (High Bay) | Other Non-Mfg | Lighting | New | end use | 17,418 | 41% | 0.00 | 13 | \$72,697 | 61% | 0.04 |
| FE-Penn Power | Efficient Metal Halide (High Bay) | Other Non-Mfg | Lighting | ROB | end use | 17,418 | 41% | 0.00 | 13 | \$55,559 | 61% | 0.05 |
| FE-Penn Power | Induction (High Bay) | Other Non-Mfg | Lighting | Early | end use | 17,418 | 94% | 0.00 | 13 | \$8,098 | 95% | 0.68 |
| FE-Penn Power | Induction (High Bay) | Other Non-Mfg | Lighting | New | end use | 17,418 | 94% | 0.00 | 13 | \$7,582 | 95% | 0.72 |
| FE-Penn Power | Induction (High Bay) | Other Non-Mfg | Lighting | ROB | end use | 17,418 | 94% | 0.00 | 13 | \$5,763 | 95% | 0.92 |
| FE-Penn Power | LED (High Bay) | Other Non-Mfg | Lighting | Early | end use | 17,418 | 69% | 0.00 | 14 | \$9,533 | 95% | 0.47 |
| FE-Penn Power | LED (High Bay) | Other Non-Mfg | Lighting | New | end use | 17,418 | 55% | 0.00 | 14 | \$10,581 | 95% | 0.35 |
| FE-Penn Power | LED (High Bay) | Other Non-Mfg | Lighting | ROB | end use | 17,418 | 59% | 0.00 | 14 | \$6,972 | 95% | 0.54 |
| FE-Penn Power | Lighting Controls | Other Non-Mfg | Lighting | Existing | end use | 17,418 | 20% | 0.00 | 6 | \$65,296 | 16% | 0.01 |
| FE-Penn Power | Lighting Controls | Other Non-Mfg | Lighting | New | end use | 17,418 | 12% | 0.00 | 10 | \$86,865 | 11% | 0.01 |
| FE-Penn Power | Linear Fluorescent (High Bay) | Other Non-Mfg | Lighting | Early | end use | 17,418 | 17% | 0.00 | 14 | \$1,993 | 98% | 0.54 |
| FE-Penn Power | Linear Fluorescent (High Bay) | Other Non-Mfg | Lighting | New | end use | 17,418 | 13% | 0.00 | 14 | \$632 | 91% | 1.15 |
| FE-Penn Power | Linear Fluorescent (High Bay) | Other Non-Mfg | Lighting | ROB | end use | 17,418 | 13% | 0.00 | 14 | \$405 | 91% | 1.66 |
| FE-Penn Power | Metal Halide (High Bay) | Other Non-Mfg | Lighting | Early | end use | 17,418 | 62% | 0.00 | 13 | \$11,973 | 38% | 0.33 |
| FE-Penn Power | Metal Halide (High Bay) | Other Non-Mfg | Lighting | New | end use | 17,418 | 73% | 0.00 | 13 | \$2,863 | 38% | 1.30 |
| FE-Penn Power | Metal Halide (High Bay) | Other Non-Mfg | Lighting | ROB | end use | 17,418 | 73% | 0.00 | 13 | \$2,176 | 38% | 1.59 |
| FE-Penn Power | Screw Base CFL | Other Non-Mfg | Lighting | Early | end use | 17,418 | 80% | 0.00 | 7 | \$4,732 | 17% | 0.60 |
| FE-Penn Power | Screw Base CFL | Other Non-Mfg | Lighting | New | end use | 17,418 | 73% | 0.00 | 9 | \$3,867 | 18% | 0.79 |
| FE-Penn Power | Screw Base CFL | Other Non-Mfg | Lighting | ROB | end use | 17,418 | 73% | 0.00 | 9 | \$3,237 | 17% | 0.91 |
| FE-Penn Power | Screw Base LED | Other Non-Mfg | Lighting | Early | end use | 17,418 | 76% | 0.00 | 9 | \$2,904 | 21% | 1.06 |
| FE-Penn Power | Screw Base LED | Other Non-Mfg | Lighting | New | end use | 17,418 | 77% | 0.00 | 9 | \$1,618 | 20% | 1.61 |
| FE-Penn Power | Screw Base LED | Other Non-Mfg | Lighting | ROB | end use | 17,418 | 77% | 0.00 | 9 | \$1,284 | 21% | 1.85 |
| FE-Penn Power | T8 High Performance Linear Florescent | Other Non-Mfg | Lighting | Early | end use | 17,418 | 36% | 0.00 | 14 | \$1,667 | 71% | 1.22 |
| FE-Penn Power | T8 High Performance Linear Florescent | Other Non-Mfg | Lighting | New | end use | 17,418 | 26% | 0.00 | 14 | \$596 | 76% | 2.05 |
| FE-Penn Power | T8 High Performance Linear Florescent | Other Non-Mfg | Lighting | ROB | end use | 17,418 | 26% | 0.00 | 14 | \$453 | 76% | 2.42 |
| FE-Penn Power | Automatic Milker Takeoff | Other Non-Mfg | Motors | Early | end use | 2,851 | 3.0% | 0.01 | 15 | \$52 | 11% | 0.72 |
| FE-Penn Power | Automatic Milker Takeoff | Other Non-Mfg | Motors | New | end use | 2,851 | 3.0% | 0.01 | 15 | \$52 | 11% | 0.72 |
| FE-Penn Power | Automatic Milker Takeoff | Other Non-Mfg | Motors | ROB | end use | 2,851 | 3.0% | 0.01 | 15 | \$52 | 11% | 0.72 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 1-15 HP | Other Non-Mfg | Motors | Early | end use | 2,851 | 0.9% | 0.00 | 15 | \$44 | 68% | 0.28 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 1-15 HP | Other Non-Mfg | Motors | New | end use | 2,851 | 0.9% | 0.00 | 15 | \$44 | 68% | 0.28 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 1-15 HP | Other Non-Mfg | Motors | ROB | end use | 2,851 | 0.9% | 0.00 | 15 | \$44 | 68% | 0.28 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 125-200 HP | Other Non-Mfg | Motors | Early | end use | 2,851 | 0.8% | 0.00 | 15 | \$26 | 61% | 0.37 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 125-200 HP | Other Non-Mfg | Motors | New | end use | 2,851 | 0.7% | 0.00 | 15 | \$26 | 61% | 0.37 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 125-200 HP | Other Non-Mfg | Motors | ROB | end use | 2,851 | 0.8% | 0.00 | 15 | \$26 | 61% | 0.37 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 20-40 HP | Other Non-Mfg | Motors | Early | end use | 2,851 | 0.5% | 0.00 | 15 | \$10 | 68% | 0.58 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 20-40 HP | Other Non-Mfg | Motors | New | end use | 2,851 | 0.4% | 0.00 | 15 | \$10 | 68% | 0.56 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 20-40 HP | Other Non-Mfg | Motors | ROB | end use | 2,851 | 0.5% | 0.00 | 15 | \$10 | 68% | 0.57 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 250-500 HP | Other Non-Mfg | Motors | Early | end use | 2,851 | 0.4% | 0.00 | 15 | \$3.3 | 61% | 1.32 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 250-500 HP | Other Non-Mfg | Motors | New | end use | 2,851 | 0.4% | 0.00 | 15 | \$3.3 | 61% | 1.33 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 250-500 HP | Other Non-Mfg | Motors | ROB | end use | 2,851 | 0.4% | 0.00 | 15 | \$3.3 | 61% | 1.32 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 50-100 HP | Other Non-Mfg | Motors | Early | end use | 2,851 | 0.9% | 0.00 | 15 | \$5.0 | 39% | 1.85 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|--|---------------|---------|----------|---------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Enhanced (Ultra-PE) Motor 50-100 HP | Other Non-Mfg | Motors | New | end use | 2,851 | 0.9% | 0.00 | 15 | \$5.0 | 39% | 1.87 |
| FE-Penn Power | Enhanced (Ultra-PE) Motor 50-100 HP | Other Non-Mfg | Motors | ROB | end use | 2,851 | 0.9% | 0.00 | 15 | \$5.0 | 39% | 1.86 |
| FE-Penn Power | Facility Energy Management | Other Non-Mfg | Motors | Existing | end use | 2,851 | 1.9% | 0.01 | 2 | \$1.1 | 64% | 1.09 |
| FE-Penn Power | Facility Energy Management | Other Non-Mfg | Motors | New | end use | 2,851 | 1.9% | 0.01 | 2 | \$1.1 | 64% | 1.09 |
| FE-Penn Power | HE Motors | Other Non-Mfg | Motors | Early | end use | 2,851 | 2.0% | 0.01 | 15 | \$17 | 32% | 1.34 |
| FE-Penn Power | HE Motors | Other Non-Mfg | Motors | New | end use | 2,851 | 2.0% | 0.01 | 15 | \$17 | 32% | 1.34 |
| FE-Penn Power | HE Motors | Other Non-Mfg | Motors | ROB | end use | 2,851 | 2.0% | 0.01 | 15 | \$17 | 32% | 1.34 |
| FE-Penn Power | High-Efficiency Ventilation System | Other Non-Mfg | Motors | Early | end use | 2,851 | 5.7% | 0.02 | 10 | \$178 | 61% | 0.31 |
| FE-Penn Power | High-Efficiency Ventilation System | Other Non-Mfg | Motors | New | end use | 2,851 | 5.7% | 0.02 | 10 | \$178 | 61% | 0.31 |
| FE-Penn Power | High-Efficiency Ventilation System | Other Non-Mfg | Motors | ROB | end use | 2,851 | 5.7% | 0.02 | 10 | \$178 | 61% | 0.31 |
| FE-Penn Power | Improved Controls - Motors | Other Non-Mfg | Motors | Existing | end use | 2,851 | 4.0% | 0.02 | 10 | \$12 | 61% | 2.03 |
| FE-Penn Power | Improved Controls - Motors | Other Non-Mfg | Motors | New | end use | 2,851 | 4.0% | 0.02 | 10 | \$12 | 61% | 2.03 |
| FE-Penn Power | Motor Management Plan | Other Non-Mfg | Motors | Existing | end use | 2,851 | 2.9% | 0.01 | 10 | \$5.8 | 61% | 2.60 |
| FE-Penn Power | Motor Management Plan | Other Non-Mfg | Motors | New | end use | 2,851 | 2.9% | 0.01 | 10 | \$5.8 | 61% | 2.60 |
| FE-Penn Power | Motors Other | Other Non-Mfg | Motors | Existing | end use | 2,851 | 1.1% | 0.00 | 15 | \$0.6 | 69% | 5.48 |
| FE-Penn Power | Motors Other | Other Non-Mfg | Motors | New | end use | 2,851 | 1.1% | 0.00 | 15 | \$0.6 | 69% | 5.48 |
| FE-Penn Power | Motors: Rewind 101-200 HP | Other Non-Mfg | Motors | Existing | end use | 2,851 | 0.6% | 0.00 | 10 | \$3.6 | 22% | 1.23 |
| FE-Penn Power | Motors: Rewind 101-200 HP | Other Non-Mfg | Motors | New | end use | 2,851 | 0.6% | 0.00 | 10 | \$3.6 | 22% | 1.23 |
| FE-Penn Power | Motors: Rewind 201-500 HP | Other Non-Mfg | Motors | Existing | end use | 2,851 | 0.6% | 0.00 | 8 | \$2.3 | 22% | 1.47 |
| FE-Penn Power | Motors: Rewind 201-500 HP | Other Non-Mfg | Motors | New | end use | 2,851 | 0.6% | 0.00 | 8 | \$2.3 | 22% | 1.48 |
| FE-Penn Power | Motors: Rewind 20-50 HP | Other Non-Mfg | Motors | Existing | end use | 2,851 | 1.0% | 0.00 | 11 | \$11 | 35% | 0.92 |
| FE-Penn Power | Motors: Rewind 20-50 HP | Other Non-Mfg | Motors | New | end use | 2,851 | 1.0% | 0.00 | 11 | \$11 | 35% | 0.92 |
| FE-Penn Power | Motors: Rewind 500+ HP | Other Non-Mfg | Motors | Existing | end use | 2,851 | 0.6% | 0.00 | 8 | \$1.6 | 10% | 1.84 |
| FE-Penn Power | Motors: Rewind 500+ HP | Other Non-Mfg | Motors | New | end use | 2,851 | 0.6% | 0.00 | 8 | \$1.6 | 10% | 1.83 |
| FE-Penn Power | Motors: Rewind 51-100 HP | Other Non-Mfg | Motors | Existing | end use | 2,851 | 0.6% | 0.00 | 9 | \$5.2 | 35% | 0.91 |
| FE-Penn Power | Motors: Rewind 51-100 HP | Other Non-Mfg | Motors | New | end use | 2,851 | 0.6% | 0.00 | 9 | \$5.2 | 35% | 0.93 |
| FE-Penn Power | SIS | Other Non-Mfg | Motors | Existing | end use | 2,851 | 7.5% | 0.03 | 7 | \$180 | 11% | 0.31 |
| FE-Penn Power | SIS | Other Non-Mfg | Motors | New | end use | 2,851 | 7.5% | 0.03 | 7 | \$180 | 11% | 0.31 |
| FE-Penn Power | Switch from Belt drive to Direct Drive | Other Non-Mfg | Motors | Early | end use | 2,851 | 7.5% | 0.03 | 12 | \$46 | 25% | 1.45 |
| FE-Penn Power | Switch from Belt drive to Direct Drive | Other Non-Mfg | Motors | New | end use | 2,851 | 7.5% | 0.03 | 12 | \$46 | 25% | 1.45 |
| FE-Penn Power | Switch from Belt drive to Direct Drive | Other Non-Mfg | Motors | ROB | end use | 2,851 | 7.5% | 0.03 | 12 | \$46 | 25% | 1.45 |
| FE-Penn Power | Synchronous Belts | Other Non-Mfg | Motors | Early | end use | 2,851 | 1.2% | 0.00 | 10 | \$4.2 | 25% | 1.86 |
| FE-Penn Power | Synchronous Belts | Other Non-Mfg | Motors | New | end use | 2,851 | 1.2% | 0.00 | 10 | \$4.2 | 25% | 1.86 |
| FE-Penn Power | Synchronous Belts | Other Non-Mfg | Motors | ROB | end use | 2,851 | 1.2% | 0.00 | 10 | \$4.2 | 25% | 1.86 |
| FE-Penn Power | Variable Speed Drives for Dairy Vacuum Pumps | Other Non-Mfg | Motors | Early | end use | 2,851 | 37% | 0.15 | 15 | \$143 | 7% | 2.36 |
| FE-Penn Power | Variable Speed Drives for Dairy Vacuum Pumps | Other Non-Mfg | Motors | New | end use | 2,851 | 37% | 0.15 | 15 | \$143 | 7% | 2.36 |
| FE-Penn Power | Variable Speed Drives for Dairy Vacuum Pumps | Other Non-Mfg | Motors | ROB | end use | 2,851 | 37% | 0.15 | 15 | \$143 | 7% | 2.36 |
| FE-Penn Power | VFDs on Small Milking Machines | Other Non-Mfg | Motors | Early | end use | 2,851 | 3.2% | 0.01 | 15 | \$61 | 7% | 0.66 |
| FE-Penn Power | VFDs on Small Milking Machines | Other Non-Mfg | Motors | New | end use | 2,851 | 3.2% | 0.01 | 15 | \$61 | 7% | 0.66 |
| FE-Penn Power | VFDs on Small Milking Machines | Other Non-Mfg | Motors | ROB | end use | 2,851 | 3.2% | 0.01 | 15 | \$61 | 7% | 0.66 |
| FE-Penn Power | Wood: Replace Pneumatic Conveyor | Other Non-Mfg | Motors | Early | end use | 2,851 | 29% | 0.12 | 10 | \$12 | 11% | 4.31 |
| FE-Penn Power | Wood: Replace Pneumatic Conveyor | Other Non-Mfg | Motors | New | end use | 2,851 | 29% | 0.12 | 10 | \$12 | 11% | 4.31 |
| FE-Penn Power | Wood: Replace Pneumatic Conveyor | Other Non-Mfg | Motors | ROB | end use | 2,851 | 29% | 0.12 | 10 | \$12 | 11% | 4.31 |
| FE-Penn Power | Bldg Improvements | Other Non-Mfg | Other | Existing | end use | 5,479 | 16% | 0.11 | 15 | \$119 | 72% | 2.31 |
| FE-Penn Power | Bldg Improvements | Other Non-Mfg | Other | New | end use | 5,479 | 16% | 0.11 | 15 | \$119 | 72% | 2.31 |
| FE-Penn Power | Block Heater Timer | Other Non-Mfg | Other | Existing | end use | 5,479 | 2.5% | 0.02 | 10 | \$5.4 | 40% | 3.25 |
| FE-Penn Power | Block Heater Timer | Other Non-Mfg | Other | New | end use | 5,479 | 2.5% | 0.02 | 10 | \$5.4 | 40% | 3.25 |
| FE-Penn Power | Energy Project Management | Other Non-Mfg | Other | Existing | end use | 5,479 | 29% | 0.19 | 11 | \$196 | 63% | 1.95 |
| FE-Penn Power | Energy Project Management | Other Non-Mfg | Other | New | end use | 5,479 | 29% | 0.19 | 11 | \$196 | 63% | 1.95 |
| FE-Penn Power | Facility Energy Management | Other Non-Mfg | Other | Existing | end use | 5,479 | 1.9% | 0.01 | 2 | \$2.1 | 76% | 1.06 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|------------------------------------|---------------|------------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Facility Energy Management | Other Non-Mfg | Other | New | end use | 5,479 | 1.9% | 0.01 | 2 | \$2.1 | 76% | 1.06 |
| FE-Penn Power | Grain bin aeration control systems | Other Non-Mfg | Other | Existing | end use | 5,479 | 2.3% | 0.01 | 15 | \$16 | 24% | 2.32 |
| FE-Penn Power | Grain bin aeration control systems | Other Non-Mfg | Other | New | end use | 5,479 | 2.3% | 0.01 | 15 | \$16 | 24% | 2.32 |
| FE-Penn Power | Greenhouse Heat Curtain | Other Non-Mfg | Other | Existing | end use | 5,479 | 17% | 0.11 | 5 | \$42 | 5% | 1.84 |
| FE-Penn Power | Greenhouse Heat Curtain | Other Non-Mfg | Other | New | end use | 5,479 | 17% | 0.11 | 5 | \$42 | 5% | 1.84 |
| FE-Penn Power | HE Stock tank | Other Non-Mfg | Other | Early | end use | 5,479 | 3.8% | 0.02 | 10 | \$68 | 14% | 0.86 |
| FE-Penn Power | HE Stock tank | Other Non-Mfg | Other | New | end use | 5,479 | 3.8% | 0.02 | 10 | \$68 | 14% | 0.86 |
| FE-Penn Power | HE Stock tank | Other Non-Mfg | Other | ROB | end use | 5,479 | 3.8% | 0.02 | 10 | \$68 | 14% | 0.86 |
| FE-Penn Power | Integrated Plant Energy Management | Other Non-Mfg | Other | Existing | end use | 5,479 | 50% | 0.33 | 11 | \$540 | 48% | 1.41 |
| FE-Penn Power | Integrated Plant Energy Management | Other Non-Mfg | Other | New | end use | 5,479 | 50% | 0.33 | 11 | \$540 | 48% | 1.41 |
| FE-Penn Power | Livestock Waterers | Other Non-Mfg | Other | Early | end use | 5,479 | 11% | 0.07 | 10 | \$162 | 14% | 1.04 |
| FE-Penn Power | Livestock Waterers | Other Non-Mfg | Other | New | end use | 5,479 | 11% | 0.07 | 10 | \$162 | 14% | 1.04 |
| FE-Penn Power | Livestock Waterers | Other Non-Mfg | Other | ROB | end use | 5,479 | 11% | 0.07 | 10 | \$162 | 14% | 1.04 |
| FE-Penn Power | Plant Energy Management | Other Non-Mfg | Other | Existing | end use | 5,479 | 12% | 0.08 | 10 | \$14 | 55% | 3.90 |
| FE-Penn Power | Plant Energy Management | Other Non-Mfg | Other | New | end use | 5,479 | 12% | 0.08 | 10 | \$14 | 55% | 3.90 |
| FE-Penn Power | Transformers | Other Non-Mfg | Other | Early | end use | 5,479 | 1.6% | 0.01 | 15 | \$18 | 34% | 1.71 |
| FE-Penn Power | Transformers | Other Non-Mfg | Other | New | end use | 5,479 | 1.6% | 0.01 | 15 | \$18 | 34% | 1.71 |
| FE-Penn Power | Transformers | Other Non-Mfg | Other | ROB | end use | 5,479 | 1.6% | 0.01 | 15 | \$18 | 34% | 1.71 |
| FE-Penn Power | Air Compressor Demand Reduction | Other Non-Mfg | Process Air Compressor | Existing | end use | 236 | 26% | 0.01 | 10 | \$3.5 | 40% | 2.80 |
| FE-Penn Power | Air Compressor Demand Reduction | Other Non-Mfg | Process Air Compressor | New | end use | 236 | 26% | 0.01 | 10 | \$3.5 | 40% | 2.80 |
| FE-Penn Power | Air Compressor Equipment | Other Non-Mfg | Process Air Compressor | Early | end use | 236 | 39% | 0.01 | 10 | \$4.3 | 56% | 3.08 |
| FE-Penn Power | Air Compressor Equipment | Other Non-Mfg | Process Air Compressor | New | end use | 236 | 39% | 0.01 | 10 | \$4.3 | 56% | 3.08 |
| FE-Penn Power | Air Compressor Equipment | Other Non-Mfg | Process Air Compressor | ROB | end use | 236 | 39% | 0.01 | 10 | \$4.3 | 56% | 3.08 |
| FE-Penn Power | Air Compressor Optimization | Other Non-Mfg | Process Air Compressor | Existing | end use | 236 | 39% | 0.01 | 10 | \$10 | 42% | 1.99 |
| FE-Penn Power | Air Compressor Optimization | Other Non-Mfg | Process Air Compressor | New | end use | 236 | 39% | 0.01 | 10 | \$10 | 42% | 1.99 |
| FE-Penn Power | Facility Energy Management | Other Non-Mfg | Process Air Compressor | Existing | end use | 236 | 1.9% | 0.00 | 2 | \$0.1 | 50% | 1.08 |
| FE-Penn Power | Facility Energy Management | Other Non-Mfg | Process Air Compressor | New | end use | 236 | 1.9% | 0.00 | 2 | \$0.1 | 50% | 1.08 |
| FE-Penn Power | HE Compressor motors | Other Non-Mfg | Process Air Compressor | Early | end use | 236 | 1.1% | 0.00 | 15 | \$0.9 | 56% | 1.16 |
| FE-Penn Power | HE Compressor motors | Other Non-Mfg | Process Air Compressor | New | end use | 236 | 1.1% | 0.00 | 15 | \$0.9 | 56% | 1.16 |
| FE-Penn Power | HE Compressor motors | Other Non-Mfg | Process Air Compressor | ROB | end use | 236 | 1.1% | 0.00 | 15 | \$0.9 | 56% | 1.17 |
| FE-Penn Power | Improved Controls - Air Compressor | Other Non-Mfg | Process Air Compressor | Existing | end use | 236 | 41% | 0.01 | 10 | \$4.2 | 19% | 3.15 |
| FE-Penn Power | Improved Controls - Air Compressor | Other Non-Mfg | Process Air Compressor | New | end use | 236 | 41% | 0.01 | 10 | \$4.2 | 19% | 3.15 |
| FE-Penn Power | Low Pressure-drop Filters | Other Non-Mfg | Process Air Compressor | Existing | end use | 236 | 1.8% | 0.00 | 10 | \$2.7 | 46% | 0.52 |
| FE-Penn Power | Low Pressure-drop Filters | Other Non-Mfg | Process Air Compressor | New | end use | 236 | 1.9% | 0.00 | 10 | \$2.7 | 46% | 0.53 |
| FE-Penn Power | Outside Air Intake | Other Non-Mfg | Process Air Compressor | Existing | end use | 236 | 1.4% | 0.00 | 10 | \$1.6 | 37% | 0.68 |
| FE-Penn Power | Outside Air Intake | Other Non-Mfg | Process Air Compressor | New | end use | 236 | 1.4% | 0.00 | 10 | \$1.6 | 37% | 0.68 |
| FE-Penn Power | Receiver Capacity Addition | Other Non-Mfg | Process Air Compressor | Existing | end use | 236 | 6.0% | 0.00 | 10 | \$4.4 | 28% | 0.94 |
| FE-Penn Power | Receiver Capacity Addition | Other Non-Mfg | Process Air Compressor | New | end use | 236 | 6.0% | 0.00 | 10 | \$4.4 | 28% | 0.94 |
| FE-Penn Power | Refrigerated Cycling Dryers | Other Non-Mfg | Process Air Compressor | Early | end use | 236 | 1.7% | 0.00 | 10 | \$0.5 | 16% | 1.74 |
| FE-Penn Power | Refrigerated Cycling Dryers | Other Non-Mfg | Process Air Compressor | New | end use | 236 | 1.7% | 0.00 | 10 | \$0.5 | 16% | 1.73 |
| FE-Penn Power | Refrigerated Cycling Dryers | Other Non-Mfg | Process Air Compressor | ROB | end use | 236 | 1.7% | 0.00 | 10 | \$0.5 | 16% | 1.74 |
| FE-Penn Power | VFD Controlled Compressor | Other Non-Mfg | Process Air Compressor | Early | end use | 236 | 24% | 0.01 | 10 | \$23 | 22% | 0.74 |
| FE-Penn Power | VFD Controlled Compressor | Other Non-Mfg | Process Air Compressor | New | end use | 236 | 24% | 0.01 | 10 | \$23 | 22% | 0.74 |
| FE-Penn Power | VFD Controlled Compressor | Other Non-Mfg | Process Air Compressor | ROB | end use | 236 | 24% | 0.01 | 10 | \$23 | 22% | 0.74 |
| FE-Penn Power | Zero Loss Condensate Drain | Other Non-Mfg | Process Air Compressor | Early | end use | 236 | 1.8% | 0.00 | 10 | \$1.4 | 28% | 0.95 |
| FE-Penn Power | Zero Loss Condensate Drain | Other Non-Mfg | Process Air Compressor | New | end use | 236 | 1.9% | 0.00 | 10 | \$1.4 | 28% | 0.95 |
| FE-Penn Power | Zero Loss Condensate Drain | Other Non-Mfg | Process Air Compressor | ROB | end use | 236 | 1.9% | 0.00 | 10 | \$1.4 | 28% | 0.95 |
| FE-Penn Power | Cooling Tower Optimization | Other Non-Mfg | Process Cooling | Existing | building | 3,135 | 20% | 0.22 | 10 | \$19 | 15% | 4.44 |
| FE-Penn Power | Equipment: Chillers | Other Non-Mfg | Process Cooling | Early | end use | 3,135 | 18% | 0.12 | 15 | \$147 | 39% | 1.53 |
| FE-Penn Power | Equipment: Chillers | Other Non-Mfg | Process Cooling | New | end use | 3,135 | 18% | 0.12 | 15 | \$147 | 39% | 1.53 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|---------------------------------------|---------------|-----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Equipment: Chillers | Other Non-Mfg | Process Cooling | ROB | end use | 3,135 | 18% | 0.12 | 15 | \$147 | 39% | 1.53 |
| FE-Penn Power | Facility Energy Management | Other Non-Mfg | Process Cooling | Existing | end use | 3,135 | 1.9% | 0.01 | 2 | \$1.2 | 50% | 1.15 |
| FE-Penn Power | Facility Energy Management | Other Non-Mfg | Process Cooling | New | end use | 3,135 | 1.8% | 0.01 | 2 | \$1.2 | 50% | 1.15 |
| FE-Penn Power | Improved Controls - Process Cooling | Other Non-Mfg | Process Cooling | Existing | end use | 3,135 | 6.0% | 0.04 | 10 | \$166 | 47% | 0.40 |
| FE-Penn Power | Improved Controls - Process Cooling | Other Non-Mfg | Process Cooling | New | end use | 3,135 | 6.0% | 0.04 | 10 | \$166 | 47% | 0.40 |
| FE-Penn Power | Milk Precooler - Dairy Plate Cooler | Other Non-Mfg | Process Cooling | Early | end use | 3,135 | 3.2% | 0.02 | 15 | \$53 | 8% | 0.85 |
| FE-Penn Power | Milk Precooler - Dairy Plate Cooler | Other Non-Mfg | Process Cooling | New | end use | 3,135 | 3.2% | 0.02 | 15 | \$53 | 8% | 0.85 |
| FE-Penn Power | Milk Precooler - Dairy Plate Cooler | Other Non-Mfg | Process Cooling | ROB | end use | 3,135 | 3.2% | 0.02 | 15 | \$53 | 8% | 0.85 |
| FE-Penn Power | VFD on Cooling Tower Fan | Other Non-Mfg | Process Cooling | Early | motor | 3,135 | 21% | 0.20 | 15 | \$145 | 20% | 1.93 |
| FE-Penn Power | VFD on Cooling Tower Fan | Other Non-Mfg | Process Cooling | New | motor | 3,135 | 22% | 0.20 | 15 | \$148 | 20% | 1.92 |
| FE-Penn Power | VFD on Cooling Tower Fan | Other Non-Mfg | Process Cooling | ROB | motor | 3,135 | 22% | 0.20 | 15 | \$148 | 20% | 1.92 |
| FE-Penn Power | Crate Heating Pads | Other Non-Mfg | Process Heating | Early | end use | 12,700 | 18% | 0.30 | 15 | \$323 | 9% | 2.13 |
| FE-Penn Power | Crate Heating Pads | Other Non-Mfg | Process Heating | New | end use | 12,700 | 18% | 0.30 | 15 | \$323 | 9% | 2.13 |
| FE-Penn Power | Crate Heating Pads | Other Non-Mfg | Process Heating | ROB | end use | 12,700 | 18% | 0.30 | 15 | \$323 | 9% | 2.13 |
| FE-Penn Power | Grain dryers | Other Non-Mfg | Process Heating | Early | end use | 12,700 | 24% | 0.41 | 15 | \$19,598 | 9% | 0.07 |
| FE-Penn Power | Grain dryers | Other Non-Mfg | Process Heating | New | end use | 12,700 | 24% | 0.41 | 15 | \$19,598 | 9% | 0.07 |
| FE-Penn Power | Grain dryers | Other Non-Mfg | Process Heating | ROB | end use | 12,700 | 24% | 0.41 | 15 | \$19,598 | 9% | 0.07 |
| FE-Penn Power | Heat Lamp Setback (Microzone) | Other Non-Mfg | Process Heating | Existing | end use | 12,700 | 0.5% | 0.01 | 15 | \$9.7 | 4% | 1.96 |
| FE-Penn Power | Heat Lamp Setback (Microzone) | Other Non-Mfg | Process Heating | New | end use | 12,700 | 0.5% | 0.01 | 15 | \$9.7 | 4% | 1.96 |
| FE-Penn Power | Heat Lamp/Heating Pad Controller | Other Non-Mfg | Process Heating | Existing | end use | 12,700 | 1.8% | 0.03 | 15 | \$23 | 4% | 2.69 |
| FE-Penn Power | Heat Lamp/Heating Pad Controller | Other Non-Mfg | Process Heating | New | end use | 12,700 | 1.8% | 0.03 | 15 | \$23 | 4% | 2.69 |
| FE-Penn Power | Heat Lamps | Other Non-Mfg | Process Heating | Early | end use | 12,700 | 3.4% | 0.06 | 10 | \$8.1 | 9% | 3.87 |
| FE-Penn Power | Heat Lamps | Other Non-Mfg | Process Heating | New | end use | 12,700 | 3.4% | 0.06 | 10 | \$8.1 | 9% | 3.87 |
| FE-Penn Power | Heat Lamps | Other Non-Mfg | Process Heating | ROB | end use | 12,700 | 3.4% | 0.06 | 10 | \$8.1 | 9% | 3.87 |
| FE-Penn Power | Improved Controls - Process Heating | Other Non-Mfg | Process Heating | Existing | end use | 12,700 | 17% | 0.30 | 10 | \$146 | 23% | 2.58 |
| FE-Penn Power | Improved Controls - Process Heating | Other Non-Mfg | Process Heating | New | end use | 12,700 | 17% | 0.30 | 10 | \$146 | 23% | 2.58 |
| FE-Penn Power | Process Heat O&M | Other Non-Mfg | Process Heating | Existing | end use | 12,700 | 16% | 0.28 | 2 | \$88 | 23% | 0.85 |
| FE-Penn Power | Process Heat O&M | Other Non-Mfg | Process Heating | New | end use | 12,700 | 16% | 0.28 | 2 | \$88 | 23% | 0.85 |
| FE-Penn Power | Facility Energy Management | Other Non-Mfg | Process Other | Existing | end use | 1,371 | 1.9% | 0.00 | 2 | \$0.5 | 73% | 1.06 |
| FE-Penn Power | Facility Energy Management | Other Non-Mfg | Process Other | New | end use | 1,371 | 1.9% | 0.00 | 2 | \$0.5 | 73% | 1.06 |
| FE-Penn Power | Adjustable speed drive on compressors | Other Non-Mfg | Process Refrigeration | Early | end use | 1,610 | 12% | 0.03 | 10 | \$30 | 30% | 1.61 |
| FE-Penn Power | Adjustable speed drive on compressors | Other Non-Mfg | Process Refrigeration | New | end use | 1,610 | 12% | 0.03 | 10 | \$30 | 30% | 1.61 |
| FE-Penn Power | Adjustable speed drive on compressors | Other Non-Mfg | Process Refrigeration | ROB | end use | 1,610 | 12% | 0.03 | 10 | \$30 | 30% | 1.61 |
| FE-Penn Power | Cooling Tower Optimization | Other Non-Mfg | Process Refrigeration | Existing | building | 1,610 | 20% | 0.12 | 10 | \$9.9 | 15% | 4.44 |
| FE-Penn Power | Optimization of operating parameters | Other Non-Mfg | Process Refrigeration | Existing | end use | 1,610 | 13% | 0.03 | 3 | \$13 | 27% | 1.07 |
| FE-Penn Power | Optimization of operating parameters | Other Non-Mfg | Process Refrigeration | New | end use | 1,610 | 13% | 0.03 | 3 | \$13 | 27% | 1.07 |
| FE-Penn Power | Synchronous Belts | Other Non-Mfg | Process Refrigeration | Early | end use | 1,610 | 1.2% | 0.00 | 10 | \$2.4 | 30% | 1.87 |
| FE-Penn Power | Synchronous Belts | Other Non-Mfg | Process Refrigeration | New | end use | 1,610 | 1.2% | 0.00 | 10 | \$2.4 | 30% | 1.87 |
| FE-Penn Power | Synchronous Belts | Other Non-Mfg | Process Refrigeration | ROB | end use | 1,610 | 1.2% | 0.00 | 10 | \$2.4 | 30% | 1.87 |
| FE-Penn Power | VFD on Cooling Tower Fan | Other Non-Mfg | Process Refrigeration | Early | motor | 1,610 | 21% | 0.10 | 15 | \$74 | 20% | 1.93 |
| FE-Penn Power | VFD on Cooling Tower Fan | Other Non-Mfg | Process Refrigeration | New | motor | 1,610 | 22% | 0.10 | 15 | \$76 | 20% | 1.92 |
| FE-Penn Power | VFD on Cooling Tower Fan | Other Non-Mfg | Process Refrigeration | ROB | motor | 1,610 | 22% | 0.10 | 15 | \$76 | 20% | 1.92 |
| FE-Penn Power | Facility Energy Management | Other Non-Mfg | Pumps | Existing | end use | 15,983 | 1.9% | 0.04 | 2 | \$6.2 | 34% | 1.13 |
| FE-Penn Power | Facility Energy Management | Other Non-Mfg | Pumps | New | end use | 15,983 | 1.9% | 0.04 | 2 | \$6.2 | 34% | 1.13 |
| FE-Penn Power | HE Motors | Other Non-Mfg | Pumps | Early | end use | 15,983 | 2.0% | 0.04 | 15 | \$95 | 36% | 1.32 |
| FE-Penn Power | HE Motors | Other Non-Mfg | Pumps | New | end use | 15,983 | 2.0% | 0.04 | 15 | \$95 | 36% | 1.32 |
| FE-Penn Power | HE Motors | Other Non-Mfg | Pumps | ROB | end use | 15,983 | 2.0% | 0.04 | 15 | \$95 | 36% | 1.32 |
| FE-Penn Power | Motor rewinds | Other Non-Mfg | Pumps | Existing | end use | 15,983 | 0.6% | 0.01 | 9 | \$23 | 6% | 1.15 |
| FE-Penn Power | Motor rewinds | Other Non-Mfg | Pumps | New | end use | 15,983 | 0.6% | 0.01 | 9 | \$23 | 6% | 1.14 |
| FE-Penn Power | Synchronous Belts | Other Non-Mfg | Pumps | Early | end use | 15,983 | 1.2% | 0.02 | 10 | \$24 | 30% | 1.83 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|---------------|--|----------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-Penn Power | Synchronous Belts | Other Non-Mfg | Pumps | New | end use | 15,983 | 1.2% | 0.02 | 10 | \$24 | 30% | 1.83 |
| FE-Penn Power | Synchronous Belts | Other Non-Mfg | Pumps | ROB | end use | 15,983 | 1.2% | 0.02 | 10 | \$24 | 30% | 1.83 |
| FE-WPP | Circulating Fans | Mfg: Chemicals | Fans | Early | end use | 398,465 | 5.0% | 2.37 | 10 | \$2,426 | 68% | 2.11 |
| FE-WPP | Circulating Fans | Mfg: Chemicals | Fans | New | end use | 398,465 | 5.0% | 2.37 | 10 | \$2,426 | 68% | 2.10 |
| FE-WPP | Circulating Fans | Mfg: Chemicals | Fans | ROB | end use | 398,465 | 5.0% | 2.37 | 10 | \$2,426 | 68% | 2.10 |
| FE-WPP | Facility Energy Management | Mfg: Chemicals | Fans | Existing | end use | 398,465 | 1.9% | 0.87 | 2 | \$154 | 77% | 1.12 |
| FE-WPP | Facility Energy Management | Mfg: Chemicals | Fans | New | end use | 398,465 | 1.9% | 0.87 | 2 | \$154 | 77% | 1.12 |
| FE-WPP | HE Motors | Mfg: Chemicals | Fans | Early | end use | 398,465 | 2.0% | 0.97 | 15 | \$2,372 | 77% | 1.55 |
| FE-WPP | HE Motors | Mfg: Chemicals | Fans | New | end use | 398,465 | 2.0% | 0.97 | 15 | \$2,372 | 77% | 1.55 |
| FE-WPP | HE Motors | Mfg: Chemicals | Fans | ROB | end use | 398,465 | 2.0% | 0.97 | 15 | \$2,372 | 77% | 1.55 |
| FE-WPP | Improved Controls - Fans | Mfg: Chemicals | Fans | Existing | end use | 398,465 | 7.1% | 3.37 | 10 | \$1,545 | 88% | 3.23 |
| FE-WPP | Improved Controls - Fans | Mfg: Chemicals | Fans | New | end use | 398,465 | 7.1% | 3.37 | 10 | \$1,545 | 88% | 3.23 |
| FE-WPP | Properly Sized Fans | Mfg: Chemicals | Fans | Early | end use | 398,465 | 13% | 6.24 | 10 | \$8,161 | 41% | 1.79 |
| FE-WPP | Properly Sized Fans | Mfg: Chemicals | Fans | New | end use | 398,465 | 13% | 6.24 | 10 | \$8,161 | 41% | 1.79 |
| FE-WPP | Properly Sized Fans | Mfg: Chemicals | Fans | ROB | end use | 398,465 | 13% | 6.24 | 10 | \$8,161 | 41% | 1.79 |
| FE-WPP | Synchronous Belts | Mfg: Chemicals | Fans | Early | end use | 398,465 | 1.2% | 0.55 | 10 | \$587 | 41% | 2.05 |
| FE-WPP | Synchronous Belts | Mfg: Chemicals | Fans | New | end use | 398,465 | 1.2% | 0.55 | 10 | \$587 | 41% | 2.05 |
| FE-WPP | Synchronous Belts | Mfg: Chemicals | Fans | ROB | end use | 398,465 | 1.2% | 0.55 | 10 | \$587 | 41% | 2.05 |
| FE-WPP | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Chemicals | HVAC | Early | unit (ton) | 201,632 | 9.2% | 4.80 | 15 | \$36,746 | 28% | 0.31 |
| FE-WPP | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Chemicals | HVAC | New | unit (ton) | 201,632 | 4.1% | 2.16 | 15 | \$8,903 | 28% | 0.56 |
| FE-WPP | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Chemicals | HVAC | ROB | unit (ton) | 201,632 | 4.1% | 2.16 | 15 | \$8,903 | 28% | 0.56 |
| FE-WPP | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Chemicals | HVAC | Early | unit (ton) | 201,632 | 12% | 6.49 | 15 | \$43,320 | 28% | 0.36 |
| FE-WPP | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Chemicals | HVAC | New | unit (ton) | 201,632 | 7.7% | 4.02 | 15 | \$18,751 | 28% | 0.50 |
| FE-WPP | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Chemicals | HVAC | ROB | unit (ton) | 201,632 | 7.7% | 4.02 | 15 | \$18,751 | 28% | 0.50 |
| FE-WPP | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Chemicals | HVAC | Early | unit (ton) | 201,632 | 15% | 7.97 | 15 | \$49,894 | 29% | 0.38 |
| FE-WPP | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Chemicals | HVAC | New | unit (ton) | 201,632 | 11% | 5.66 | 15 | \$28,600 | 29% | 0.47 |
| FE-WPP | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Chemicals | HVAC | ROB | unit (ton) | 201,632 | 11% | 5.66 | 15 | \$28,600 | 29% | 0.47 |
| FE-WPP | >760k min 10.2 EER Air Conditioner | Mfg: Chemicals | HVAC | Early | unit (ton) | 201,632 | 2.1% | 1.11 | 15 | \$63,991 | 35% | 0.04 |
| FE-WPP | >760k min 10.2 EER Air Conditioner | Mfg: Chemicals | HVAC | New | unit (ton) | 201,632 | 2.8% | 1.48 | 15 | \$5,784 | 35% | 0.59 |
| FE-WPP | >760k min 10.2 EER Air Conditioner | Mfg: Chemicals | HVAC | ROB | unit (ton) | 201,632 | 2.8% | 1.48 | 15 | \$5,784 | 35% | 0.59 |
| FE-WPP | 135-240k min 12 EER Air Conditioner | Mfg: Chemicals | HVAC | Early | unit (ton) | 201,632 | 10% | 5.47 | 15 | \$69,292 | 35% | 0.19 |
| FE-WPP | 135-240k min 12 EER Air Conditioner | Mfg: Chemicals | HVAC | New | unit (ton) | 201,632 | 5.8% | 3.02 | 15 | \$8,182 | 35% | 0.83 |
| FE-WPP | 135-240k min 12 EER Air Conditioner | Mfg: Chemicals | HVAC | ROB | unit (ton) | 201,632 | 5.8% | 3.02 | 15 | \$8,182 | 35% | 0.83 |
| FE-WPP | 240k-760k min 11 EER Air Conditioner | Mfg: Chemicals | HVAC | Early | unit (ton) | 201,632 | 5.2% | 2.73 | 15 | \$64,031 | 35% | 0.10 |
| FE-WPP | 240k-760k min 11 EER Air Conditioner | Mfg: Chemicals | HVAC | New | unit (ton) | 201,632 | 5.3% | 2.79 | 15 | \$6,860 | 35% | 0.91 |
| FE-WPP | 240k-760k min 11 EER Air Conditioner | Mfg: Chemicals | HVAC | ROB | unit (ton) | 201,632 | 5.3% | 2.79 | 15 | \$6,860 | 35% | 0.91 |
| FE-WPP | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Chemicals | HVAC | Early | unit (ton) | 201,632 | 9.7% | 5.08 | 15 | \$70,950 | 35% | 0.17 |
| FE-WPP | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Chemicals | HVAC | New | unit (ton) | 201,632 | 3.8% | 2.01 | 15 | \$10,123 | 35% | 0.47 |
| FE-WPP | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Chemicals | HVAC | ROB | unit (ton) | 201,632 | 3.8% | 2.01 | 15 | \$10,123 | 35% | 0.47 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Mfg: Chemicals | HVAC | Existing | building | 201,632 | 5.9% | 2.99 | 15 | \$610,913 | 71% | 0.01 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Mfg: Chemicals | HVAC | New | building | 201,632 | 3.7% | 1.88 | 15 | \$580,690 | 94% | 0.01 |
| FE-WPP | Chiller Tuneup/Diagnostics | Mfg: Chemicals | HVAC | Existing | building | 201,632 | 8.0% | 5.91 | 10 | \$514,856 | 59% | 0.02 |
| FE-WPP | Chiller Tuneup/Diagnostics | Mfg: Chemicals | HVAC | New | building | 201,632 | 8.0% | 5.92 | 10 | \$514,856 | 59% | 0.02 |
| FE-WPP | Cooling Tower Optimization | Mfg: Chemicals | HVAC | Existing | building | 201,632 | 20% | 14.43 | 10 | \$1,237 | 69% | 5.07 |
| FE-WPP | Duct Insulation, Add R8 | Mfg: Chemicals | HVAC | Existing | building | 201,632 | 1.5% | 0.65 | 15 | \$1,602 | 18% | 1.05 |
| FE-WPP | Duct Insulation, Add R8 | Mfg: Chemicals | HVAC | New | building | 201,632 | 1.5% | 0.65 | 15 | \$1,602 | 9% | 1.05 |
| FE-WPP | Ductless Heat Pump | Mfg: Chemicals | HVAC | Early | heat pump | 201,632 | 0.8% | 0.38 | 15 | \$15,941 | 83% | 0.06 |
| FE-WPP | Ductless Heat Pump | Mfg: Chemicals | HVAC | New | heat pump | 201,632 | 0.4% | 0.20 | 15 | \$4,629 | 83% | 0.12 |
| FE-WPP | Ductless Heat Pump | Mfg: Chemicals | HVAC | ROB | heat pump | 201,632 | 0.4% | 0.20 | 15 | \$4,629 | 83% | 0.12 |
| FE-WPP | DX Coil Cleaning | Mfg: Chemicals | HVAC | Existing | building | 201,632 | 13% | 9.25 | 1 | \$1,933 | 73% | 0.45 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|----------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | DX Coil Cleaning | Mfg: Chemicals | HVAC | New | building | 201,632 | 13% | 9.25 | 1 | \$1,933 | 73% | 0.45 |
| FE-WPP | Efficient Unit Heating System | Mfg: Chemicals | HVAC | Early | heater | 201,632 | 6.9% | 0.12 | 15 | \$10,885 | 83% | 0.59 |
| FE-WPP | Efficient Unit Heating System | Mfg: Chemicals | HVAC | New | heater | 201,632 | 4.0% | 0.07 | 15 | \$7,425 | 83% | 0.50 |
| FE-WPP | Efficient Unit Heating System | Mfg: Chemicals | HVAC | ROB | heater | 201,632 | 4.0% | 0.07 | 15 | \$7,425 | 83% | 0.50 |
| FE-WPP | Ground Source Heat Pump (Closed Loop) | Mfg: Chemicals | HVAC | Early | heat pump | 201,632 | 1.3% | 0.59 | 15 | \$33,100 | 19% | 0.05 |
| FE-WPP | Ground Source Heat Pump (Closed Loop) | Mfg: Chemicals | HVAC | New | heat pump | 201,632 | 1.0% | 0.46 | 15 | \$13,069 | 19% | 0.10 |
| FE-WPP | Ground Source Heat Pump (Closed Loop) | Mfg: Chemicals | HVAC | ROB | heat pump | 201,632 | 1.0% | 0.46 | 15 | \$13,069 | 19% | 0.10 |
| FE-WPP | Ground Source Heat Pump (Open Loop) | Mfg: Chemicals | HVAC | Early | heat pump | 201,632 | 1.3% | 0.59 | 15 | \$21,199 | 19% | 0.08 |
| FE-WPP | Ground Source Heat Pump (Open Loop) | Mfg: Chemicals | HVAC | New | heat pump | 201,632 | 1.0% | 0.46 | 15 | \$449 | 19% | 2.16 |
| FE-WPP | Ground Source Heat Pump (Open Loop) | Mfg: Chemicals | HVAC | ROB | heat pump | 201,632 | 1.0% | 0.46 | 15 | \$449 | 19% | 2.16 |
| FE-WPP | HE Air Cooled Chiller, 100 Tons | Mfg: Chemicals | HVAC | Early | unit (ton) | 201,632 | 1.5% | 0.66 | 15 | \$234,551 | 89% | 0.01 |
| FE-WPP | HE Air Cooled Chiller, 100 Tons | Mfg: Chemicals | HVAC | New | unit (ton) | 201,632 | 0.4% | 0.19 | 15 | \$34,170 | 89% | 0.02 |
| FE-WPP | HE Air Cooled Chiller, 100 Tons | Mfg: Chemicals | HVAC | ROB | unit (ton) | 201,632 | 0.4% | 0.19 | 15 | \$34,170 | 89% | 0.02 |
| FE-WPP | HE Air Cooled Chiller, 150 Tons | Mfg: Chemicals | HVAC | Early | unit (ton) | 201,632 | 1.4% | 0.65 | 15 | \$202,600 | 89% | 0.01 |
| FE-WPP | HE Air Cooled Chiller, 150 Tons | Mfg: Chemicals | HVAC | New | unit (ton) | 201,632 | 0.3% | 0.14 | 15 | \$16,781 | 89% | 0.02 |
| FE-WPP | HE Air Cooled Chiller, 150 Tons | Mfg: Chemicals | HVAC | ROB | unit (ton) | 201,632 | 0.3% | 0.14 | 15 | \$16,781 | 89% | 0.02 |
| FE-WPP | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Chemicals | HVAC | Early | heat pump | 201,632 | 1.4% | 0.62 | 12 | \$8,641 | 81% | 0.16 |
| FE-WPP | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Chemicals | HVAC | Early | heat pump | 201,632 | 1.1% | 0.51 | 12 | \$6,313 | 81% | 0.18 |
| FE-WPP | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Chemicals | HVAC | New | heat pump | 201,632 | 1.0% | 0.46 | 12 | \$3,858 | 81% | 0.26 |
| FE-WPP | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Chemicals | HVAC | New | heat pump | 201,632 | 0.8% | 0.34 | 12 | \$1,348 | 81% | 0.54 |
| FE-WPP | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Chemicals | HVAC | ROB | heat pump | 201,632 | 1.0% | 0.46 | 12 | \$3,858 | 81% | 0.26 |
| FE-WPP | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Chemicals | HVAC | ROB | heat pump | 201,632 | 0.8% | 0.34 | 12 | \$1,348 | 81% | 0.54 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Chemicals | HVAC | Early | unit (ton) | 201,632 | 1.6% | 0.72 | 15 | \$18,610 | 89% | 0.11 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Chemicals | HVAC | New | unit (ton) | 201,632 | 0.9% | 0.42 | 15 | \$6,190 | 89% | 0.18 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Chemicals | HVAC | ROB | unit (ton) | 201,632 | 0.9% | 0.42 | 15 | \$6,190 | 89% | 0.18 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Chemicals | HVAC | Early | unit (ton) | 201,632 | 1.4% | 0.64 | 15 | \$18,176 | 89% | 0.10 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Chemicals | HVAC | New | unit (ton) | 201,632 | 1.0% | 0.45 | 15 | \$3,549 | 89% | 0.34 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Chemicals | HVAC | ROB | unit (ton) | 201,632 | 1.4% | 0.64 | 15 | \$3,261 | 89% | 0.51 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Chemicals | HVAC | Early | unit (ton) | 201,632 | 1.4% | 0.63 | 15 | \$21,512 | 89% | 0.08 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Chemicals | HVAC | New | unit (ton) | 201,632 | 0.9% | 0.40 | 15 | \$9,057 | 89% | 0.12 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Chemicals | HVAC | ROB | unit (ton) | 201,632 | 1.4% | 0.63 | 15 | \$8,197 | 89% | 0.21 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Chemicals | HVAC | Early | unit (ton) | 201,632 | 1.4% | 0.63 | 15 | \$20,722 | 89% | 0.08 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Chemicals | HVAC | New | unit (ton) | 201,632 | 0.9% | 0.40 | 15 | \$7,873 | 89% | 0.14 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Chemicals | HVAC | ROB | unit (ton) | 201,632 | 1.4% | 0.63 | 15 | \$7,126 | 89% | 0.24 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Chemicals | HVAC | Early | unit (ton) | 201,632 | 1.8% | 0.82 | 15 | \$22,328 | 89% | 0.10 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Chemicals | HVAC | New | unit (ton) | 201,632 | 0.5% | 0.25 | 15 | \$13,826 | 89% | 0.05 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Chemicals | HVAC | ROB | unit (ton) | 201,632 | 1.8% | 0.82 | 15 | \$10,736 | 89% | 0.21 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Chemicals | HVAC | Early | unit (ton) | 201,632 | 2.1% | 0.97 | 15 | \$20,537 | 89% | 0.13 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Chemicals | HVAC | New | unit (ton) | 201,632 | 0.8% | 0.35 | 15 | \$8,241 | 89% | 0.12 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Chemicals | HVAC | ROB | unit (ton) | 201,632 | 0.8% | 0.35 | 15 | \$8,241 | 89% | 0.12 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Chemicals | HVAC | Early | unit (ton) | 201,632 | 2.4% | 1.09 | 15 | \$17,406 | 89% | 0.17 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Chemicals | HVAC | New | unit (ton) | 201,632 | 0.9% | 0.41 | 15 | \$4,380 | 89% | 0.25 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Chemicals | HVAC | ROB | unit (ton) | 201,632 | 2.4% | 1.09 | 15 | \$3,123 | 89% | 0.87 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Chemicals | HVAC | Early | unit (ton) | 201,632 | 1.8% | 0.82 | 15 | \$17,231 | 89% | 0.13 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Chemicals | HVAC | New | unit (ton) | 201,632 | 0.7% | 0.31 | 15 | \$4,825 | 89% | 0.17 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Chemicals | HVAC | ROB | unit (ton) | 201,632 | 1.8% | 0.82 | 15 | \$3,823 | 89% | 0.56 |
| FE-WPP | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Chemicals | HVAC | Existing | building | 201,632 | 2.9% | 1.19 | 5 | \$2,139 | 55% | 0.58 |
| FE-WPP | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Chemicals | HVAC | New | building | 201,632 | 0.6% | 0.47 | 5 | \$1,283 | 51% | 0.28 |
| FE-WPP | Improved Controls - HVAC | Mfg: Chemicals | HVAC | Existing | end use | 159,350 | 21% | 4.78 | 10 | \$1,675 | 76% | 3.46 |
| FE-WPP | Improved Controls - HVAC | Mfg: Chemicals | HVAC | New | end use | 159,350 | 21% | 4.78 | 10 | \$1,675 | 76% | 3.46 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---------------------------------------|----------------|----------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Outside Air Economizer | Mfg: Chemicals | HVAC | Existing | building | 201,632 | 1.1% | 0.57 | 10 | \$740,833 | 82% | 0.00 |
| FE-WPP | Outside Air Economizer | Mfg: Chemicals | HVAC | New | building | 201,632 | 1.1% | 0.56 | 10 | \$740,833 | 82% | 0.00 |
| FE-WPP | Recommissioning | Mfg: Chemicals | HVAC | Existing | end use | 159,350 | 5.0% | 1.14 | 10 | \$219 | 88% | 4.27 |
| FE-WPP | Recommissioning | Mfg: Chemicals | HVAC | New | end use | 159,350 | 5.0% | 1.14 | 10 | \$219 | 88% | 4.27 |
| FE-WPP | Room AC (with louvered sides) | Mfg: Chemicals | HVAC | Early | unit (ton) | 201,632 | 7.7% | 3.50 | 9 | \$15,811 | 78% | 0.39 |
| FE-WPP | Room AC (with louvered sides) | Mfg: Chemicals | HVAC | New | unit (ton) | 201,632 | 2.6% | 1.17 | 9 | \$866 | 78% | 1.77 |
| FE-WPP | Room AC (with louvered sides) | Mfg: Chemicals | HVAC | ROB | unit (ton) | 201,632 | 2.6% | 1.17 | 9 | \$866 | 78% | 1.77 |
| FE-WPP | Variable Refrigerant Flow Heat Pump | Mfg: Chemicals | HVAC | New | measure | 201,632 | 0.1% | 0.05 | 13 | \$1,484 | 43% | 0.09 |
| FE-WPP | Variable Refrigerant Flow Heat Pump | Mfg: Chemicals | HVAC | ROB | measure | 201,632 | 0.1% | 0.05 | 13 | \$1,484 | 43% | 0.09 |
| FE-WPP | VFD on Cooling Tower Fan | Mfg: Chemicals | HVAC | Early | motor | 201,632 | 21% | 12.72 | 15 | \$9,310 | 15% | 2.32 |
| FE-WPP | VFD on Cooling Tower Fan | Mfg: Chemicals | HVAC | New | motor | 201,632 | 22% | 12.72 | 15 | \$9,488 | 15% | 2.31 |
| FE-WPP | VFD on Cooling Tower Fan | Mfg: Chemicals | HVAC | ROB | motor | 201,632 | 22% | 12.72 | 15 | \$9,488 | 15% | 2.31 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Mfg: Chemicals | HVAC | Existing | building | 201,632 | 19% | 9.64 | 15 | \$143,434 | 26% | 0.17 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Mfg: Chemicals | HVAC | New | building | 201,632 | 0.6% | 0.31 | 15 | \$110,021 | 94% | 0.01 |
| FE-WPP | Water Source Heat Pump (4 ton) | Mfg: Chemicals | HVAC | Early | heat pump | 201,632 | 1.5% | 0.70 | 15 | \$34,277 | 28% | 0.06 |
| FE-WPP | Water Source Heat Pump (4 ton) | Mfg: Chemicals | HVAC | New | heat pump | 201,632 | 1.1% | 0.51 | 15 | \$16,706 | 28% | 0.08 |
| FE-WPP | Water Source Heat Pump (4 ton) | Mfg: Chemicals | HVAC | ROB | heat pump | 201,632 | 1.1% | 0.51 | 15 | \$16,706 | 28% | 0.08 |
| FE-WPP | Efficient Metal Halide (High Bay) | Mfg: Chemicals | Lighting | Early | end use | 118,001 | 42% | 0.00 | 9 | \$18,439 | 53% | 0.73 |
| FE-WPP | Efficient Metal Halide (High Bay) | Mfg: Chemicals | Lighting | New | end use | 118,001 | 41% | 0.00 | 13 | \$492,512 | 61% | 0.04 |
| FE-WPP | Efficient Metal Halide (High Bay) | Mfg: Chemicals | Lighting | ROB | end use | 118,001 | 41% | 0.00 | 13 | \$376,405 | 61% | 0.06 |
| FE-WPP | Induction (High Bay) | Mfg: Chemicals | Lighting | Early | end use | 118,001 | 94% | 0.00 | 13 | \$54,864 | 95% | 0.77 |
| FE-WPP | Induction (High Bay) | Mfg: Chemicals | Lighting | New | end use | 118,001 | 94% | 0.00 | 13 | \$51,366 | 95% | 0.81 |
| FE-WPP | Induction (High Bay) | Mfg: Chemicals | Lighting | ROB | end use | 118,001 | 94% | 0.00 | 13 | \$39,040 | 95% | 1.02 |
| FE-WPP | LED (High Bay) | Mfg: Chemicals | Lighting | Early | end use | 118,001 | 69% | 0.00 | 14 | \$64,583 | 95% | 0.53 |
| FE-WPP | LED (High Bay) | Mfg: Chemicals | Lighting | New | end use | 118,001 | 55% | 0.00 | 14 | \$71,685 | 95% | 0.39 |
| FE-WPP | LED (High Bay) | Mfg: Chemicals | Lighting | ROB | end use | 118,001 | 59% | 0.00 | 14 | \$47,232 | 95% | 0.61 |
| FE-WPP | Lighting Controls | Mfg: Chemicals | Lighting | Existing | end use | 118,001 | 20% | 0.00 | 6 | \$442,370 | 16% | 0.01 |
| FE-WPP | Lighting Controls | Mfg: Chemicals | Lighting | New | end use | 118,001 | 12% | 0.00 | 10 | \$588,497 | 11% | 0.01 |
| FE-WPP | Linear Fluorescent (High Bay) | Mfg: Chemicals | Lighting | Early | end use | 118,001 | 17% | 0.00 | 14 | \$13,502 | 98% | 0.61 |
| FE-WPP | Linear Fluorescent (High Bay) | Mfg: Chemicals | Lighting | New | end use | 118,001 | 13% | 0.00 | 14 | \$4,282 | 91% | 1.29 |
| FE-WPP | Linear Fluorescent (High Bay) | Mfg: Chemicals | Lighting | ROB | end use | 118,001 | 13% | 0.00 | 14 | \$2,741 | 91% | 1.87 |
| FE-WPP | Metal Halide (High Bay) | Mfg: Chemicals | Lighting | Early | end use | 118,001 | 62% | 0.00 | 13 | \$81,118 | 38% | 0.37 |
| FE-WPP | Metal Halide (High Bay) | Mfg: Chemicals | Lighting | New | end use | 118,001 | 73% | 0.00 | 13 | \$19,394 | 38% | 1.46 |
| FE-WPP | Metal Halide (High Bay) | Mfg: Chemicals | Lighting | ROB | end use | 118,001 | 73% | 0.00 | 13 | \$14,740 | 38% | 1.78 |
| FE-WPP | Screw Base CFL | Mfg: Chemicals | Lighting | Early | end use | 118,001 | 80% | 0.00 | 7 | \$32,058 | 17% | 0.64 |
| FE-WPP | Screw Base CFL | Mfg: Chemicals | Lighting | New | end use | 118,001 | 73% | 0.00 | 9 | \$26,199 | 18% | 0.86 |
| FE-WPP | Screw Base CFL | Mfg: Chemicals | Lighting | ROB | end use | 118,001 | 73% | 0.00 | 9 | \$21,929 | 17% | 0.99 |
| FE-WPP | Screw Base LED | Mfg: Chemicals | Lighting | Early | end use | 118,001 | 76% | 0.00 | 9 | \$19,674 | 21% | 1.15 |
| FE-WPP | Screw Base LED | Mfg: Chemicals | Lighting | New | end use | 118,001 | 77% | 0.00 | 9 | \$10,960 | 20% | 1.75 |
| FE-WPP | Screw Base LED | Mfg: Chemicals | Lighting | ROB | end use | 118,001 | 77% | 0.00 | 9 | \$8,701 | 21% | 2.01 |
| FE-WPP | T8 High Performance Linear Florescent | Mfg: Chemicals | Lighting | Early | end use | 118,001 | 36% | 0.00 | 14 | \$11,292 | 71% | 1.37 |
| FE-WPP | T8 High Performance Linear Florescent | Mfg: Chemicals | Lighting | New | end use | 118,001 | 26% | 0.00 | 14 | \$4,040 | 76% | 2.31 |
| FE-WPP | T8 High Performance Linear Florescent | Mfg: Chemicals | Lighting | ROB | end use | 118,001 | 26% | 0.00 | 14 | \$3,071 | 76% | 2.73 |
| FE-WPP | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Chemicals | Motors | Early | end use | 125,801 | 0.9% | 0.16 | 15 | \$1,922 | 81% | 0.32 |
| FE-WPP | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Chemicals | Motors | New | end use | 125,801 | 0.9% | 0.16 | 15 | \$1,922 | 81% | 0.32 |
| FE-WPP | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Chemicals | Motors | ROB | end use | 125,801 | 0.9% | 0.16 | 15 | \$1,922 | 81% | 0.32 |
| FE-WPP | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Chemicals | Motors | Early | end use | 125,801 | 0.8% | 0.13 | 15 | \$1,167 | 73% | 0.43 |
| FE-WPP | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Chemicals | Motors | New | end use | 125,801 | 0.7% | 0.13 | 15 | \$1,167 | 73% | 0.43 |
| FE-WPP | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Chemicals | Motors | ROB | end use | 125,801 | 0.7% | 0.13 | 15 | \$1,167 | 73% | 0.43 |
| FE-WPP | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Chemicals | Motors | Early | end use | 125,801 | 0.5% | 0.08 | 15 | \$447 | 81% | 0.66 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|--|----------------|---------|----------|---------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Chemicals | Motors | New | end use | 125,801 | 0.4% | 0.08 | 15 | \$447 | 81% | 0.64 |
| FE-WPP | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Chemicals | Motors | ROB | end use | 125,801 | 0.5% | 0.08 | 15 | \$447 | 81% | 0.65 |
| FE-WPP | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Chemicals | Motors | Early | end use | 125,801 | 0.4% | 0.07 | 15 | \$148 | 73% | 1.53 |
| FE-WPP | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Chemicals | Motors | New | end use | 125,801 | 0.4% | 0.07 | 15 | \$148 | 73% | 1.55 |
| FE-WPP | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Chemicals | Motors | ROB | end use | 125,801 | 0.4% | 0.07 | 15 | \$148 | 73% | 1.57 |
| FE-WPP | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Chemicals | Motors | Early | end use | 125,801 | 0.9% | 0.16 | 15 | \$221 | 47% | 2.13 |
| FE-WPP | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Chemicals | Motors | New | end use | 125,801 | 0.9% | 0.16 | 15 | \$221 | 47% | 2.15 |
| FE-WPP | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Chemicals | Motors | ROB | end use | 125,801 | 0.9% | 0.16 | 15 | \$221 | 47% | 2.15 |
| FE-WPP | Facility Energy Management | Mfg: Chemicals | Motors | Existing | end use | 125,801 | 1.9% | 0.33 | 2 | \$48 | 77% | 1.12 |
| FE-WPP | Facility Energy Management | Mfg: Chemicals | Motors | New | end use | 125,801 | 1.9% | 0.33 | 2 | \$48 | 77% | 1.11 |
| FE-WPP | HE Motors | Mfg: Chemicals | Motors | Early | end use | 125,801 | 2.0% | 0.37 | 15 | \$749 | 38% | 1.55 |
| FE-WPP | HE Motors | Mfg: Chemicals | Motors | New | end use | 125,801 | 2.0% | 0.37 | 15 | \$749 | 38% | 1.55 |
| FE-WPP | HE Motors | Mfg: Chemicals | Motors | ROB | end use | 125,801 | 2.0% | 0.37 | 15 | \$749 | 38% | 1.55 |
| FE-WPP | High-Efficiency Ventilation System | Mfg: Chemicals | Motors | Early | end use | 125,801 | 5.7% | 1.02 | 10 | \$7,862 | 73% | 0.35 |
| FE-WPP | High-Efficiency Ventilation System | Mfg: Chemicals | Motors | New | end use | 125,801 | 5.7% | 1.02 | 10 | \$7,862 | 73% | 0.35 |
| FE-WPP | High-Efficiency Ventilation System | Mfg: Chemicals | Motors | ROB | end use | 125,801 | 5.7% | 1.02 | 10 | \$7,862 | 73% | 0.35 |
| FE-WPP | Improved Controls - Motors | Mfg: Chemicals | Motors | Existing | end use | 125,801 | 4.0% | 0.71 | 10 | \$547 | 73% | 2.24 |
| FE-WPP | Improved Controls - Motors | Mfg: Chemicals | Motors | New | end use | 125,801 | 4.0% | 0.71 | 10 | \$547 | 73% | 2.24 |
| FE-WPP | Motor Management Plan | Mfg: Chemicals | Motors | Existing | end use | 125,801 | 2.9% | 0.52 | 10 | \$257 | 73% | 2.87 |
| FE-WPP | Motor Management Plan | Mfg: Chemicals | Motors | New | end use | 125,801 | 2.9% | 0.52 | 10 | \$257 | 73% | 2.87 |
| FE-WPP | Motors Other | Mfg: Chemicals | Motors | Existing | end use | 125,801 | 1.1% | 0.20 | 15 | \$25 | 83% | 6.32 |
| FE-WPP | Motors Other | Mfg: Chemicals | Motors | New | end use | 125,801 | 1.1% | 0.20 | 15 | \$25 | 83% | 6.32 |
| FE-WPP | Motors: Rewind 101-200 HP | Mfg: Chemicals | Motors | Existing | end use | 125,801 | 0.6% | 0.10 | 10 | \$159 | 27% | 1.37 |
| FE-WPP | Motors: Rewind 101-200 HP | Mfg: Chemicals | Motors | New | end use | 125,801 | 0.6% | 0.10 | 10 | \$159 | 27% | 1.37 |
| FE-WPP | Motors: Rewind 201-500 HP | Mfg: Chemicals | Motors | Existing | end use | 125,801 | 0.6% | 0.10 | 8 | \$100 | 27% | 1.60 |
| FE-WPP | Motors: Rewind 201-500 HP | Mfg: Chemicals | Motors | New | end use | 125,801 | 0.6% | 0.10 | 8 | \$100 | 27% | 1.59 |
| FE-WPP | Motors: Rewind 20-50 HP | Mfg: Chemicals | Motors | Existing | end use | 125,801 | 1.0% | 0.19 | 11 | \$467 | 42% | 1.02 |
| FE-WPP | Motors: Rewind 20-50 HP | Mfg: Chemicals | Motors | New | end use | 125,801 | 1.0% | 0.19 | 11 | \$467 | 42% | 1.02 |
| FE-WPP | Motors: Rewind 500+ HP | Mfg: Chemicals | Motors | Existing | end use | 125,801 | 0.6% | 0.10 | 8 | \$71 | 11% | 2.00 |
| FE-WPP | Motors: Rewind 500+ HP | Mfg: Chemicals | Motors | New | end use | 125,801 | 0.6% | 0.10 | 8 | \$71 | 11% | 2.00 |
| FE-WPP | Motors: Rewind 51-100 HP | Mfg: Chemicals | Motors | Existing | end use | 125,801 | 0.6% | 0.11 | 9 | \$231 | 42% | 1.01 |
| FE-WPP | Motors: Rewind 51-100 HP | Mfg: Chemicals | Motors | New | end use | 125,801 | 0.6% | 0.11 | 9 | \$231 | 42% | 1.01 |
| FE-WPP | Switch from Belt drive to Direct Drive | Mfg: Chemicals | Motors | Early | end use | 125,801 | 7.5% | 1.35 | 12 | \$2,018 | 30% | 1.63 |
| FE-WPP | Switch from Belt drive to Direct Drive | Mfg: Chemicals | Motors | New | end use | 125,801 | 7.5% | 1.35 | 12 | \$2,018 | 30% | 1.63 |
| FE-WPP | Switch from Belt drive to Direct Drive | Mfg: Chemicals | Motors | ROB | end use | 125,801 | 7.5% | 1.35 | 12 | \$2,018 | 30% | 1.63 |
| FE-WPP | Synchronous Belts | Mfg: Chemicals | Motors | Early | end use | 125,801 | 1.2% | 0.21 | 10 | \$185 | 30% | 2.05 |
| FE-WPP | Synchronous Belts | Mfg: Chemicals | Motors | New | end use | 125,801 | 1.2% | 0.21 | 10 | \$185 | 30% | 2.05 |
| FE-WPP | Synchronous Belts | Mfg: Chemicals | Motors | ROB | end use | 125,801 | 1.2% | 0.21 | 10 | \$185 | 30% | 2.05 |
| FE-WPP | Bldg Improvements | Mfg: Chemicals | Other | Existing | end use | 42,838 | 16% | 0.83 | 15 | \$934 | 72% | 2.66 |
| FE-WPP | Bldg Improvements | Mfg: Chemicals | Other | New | end use | 42,838 | 16% | 0.83 | 15 | \$934 | 72% | 2.66 |
| FE-WPP | Energy Project Management | Mfg: Chemicals | Other | Existing | end use | 42,838 | 29% | 1.48 | 11 | \$1,529 | 63% | 2.18 |
| FE-WPP | Energy Project Management | Mfg: Chemicals | Other | New | end use | 42,838 | 29% | 1.48 | 11 | \$1,529 | 63% | 2.18 |
| FE-WPP | Facility Energy Management | Mfg: Chemicals | Other | Existing | end use | 42,838 | 1.9% | 0.09 | 2 | \$17 | 76% | 1.09 |
| FE-WPP | Facility Energy Management | Mfg: Chemicals | Other | New | end use | 42,838 | 1.9% | 0.09 | 2 | \$17 | 76% | 1.09 |
| FE-WPP | Integrated Plant Energy Management | Mfg: Chemicals | Other | Existing | end use | 42,838 | 50% | 2.55 | 11 | \$4,222 | 48% | 1.57 |
| FE-WPP | Integrated Plant Energy Management | Mfg: Chemicals | Other | New | end use | 42,838 | 50% | 2.55 | 11 | \$4,222 | 48% | 1.57 |
| FE-WPP | Plant Energy Management | Mfg: Chemicals | Other | Existing | end use | 42,838 | 12% | 0.61 | 10 | \$108 | 55% | 4.32 |
| FE-WPP | Plant Energy Management | Mfg: Chemicals | Other | New | end use | 42,838 | 12% | 0.61 | 10 | \$108 | 55% | 4.32 |
| FE-WPP | Transformers | Mfg: Chemicals | Other | Early | end use | 42,838 | 1.6% | 0.08 | 15 | \$137 | 34% | 2.00 |
| FE-WPP | Transformers | Mfg: Chemicals | Other | New | end use | 42,838 | 1.6% | 0.08 | 15 | \$137 | 34% | 2.00 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---------------------------------------|----------------|------------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Transformers | Mfg: Chemicals | Other | ROB | end use | 42,838 | 1.6% | 0.08 | 15 | \$137 | 34% | 1.99 |
| FE-WPP | Air Compressor Demand Reduction | Mfg: Chemicals | Process Air Compressor | Existing | end use | 1,514 | 26% | 0.05 | 10 | \$23 | 52% | 3.10 |
| FE-WPP | Air Compressor Demand Reduction | Mfg: Chemicals | Process Air Compressor | New | end use | 1,514 | 26% | 0.05 | 10 | \$23 | 52% | 3.10 |
| FE-WPP | Facility Energy Management | Mfg: Chemicals | Process Air Compressor | Existing | end use | 1,514 | 1.9% | 0.00 | 2 | \$0.6 | 66% | 1.10 |
| FE-WPP | Facility Energy Management | Mfg: Chemicals | Process Air Compressor | New | end use | 1,514 | 1.9% | 0.00 | 2 | \$0.6 | 66% | 1.10 |
| FE-WPP | HE Compressor motors | Mfg: Chemicals | Process Air Compressor | Early | end use | 1,514 | 1.1% | 0.00 | 15 | \$5.7 | 73% | 1.35 |
| FE-WPP | HE Compressor motors | Mfg: Chemicals | Process Air Compressor | New | end use | 1,514 | 1.1% | 0.00 | 15 | \$5.7 | 73% | 1.35 |
| FE-WPP | HE Compressor motors | Mfg: Chemicals | Process Air Compressor | ROB | end use | 1,514 | 1.1% | 0.00 | 15 | \$5.7 | 73% | 1.34 |
| FE-WPP | Improved Controls - Air Compressor | Mfg: Chemicals | Process Air Compressor | Existing | end use | 1,514 | 41% | 0.08 | 10 | \$27 | 25% | 3.49 |
| FE-WPP | Improved Controls - Air Compressor | Mfg: Chemicals | Process Air Compressor | New | end use | 1,514 | 41% | 0.08 | 10 | \$27 | 25% | 3.49 |
| FE-WPP | Low Pressure-drop Filters | Mfg: Chemicals | Process Air Compressor | Existing | end use | 1,514 | 1.9% | 0.00 | 10 | \$17 | 61% | 0.58 |
| FE-WPP | Low Pressure-drop Filters | Mfg: Chemicals | Process Air Compressor | New | end use | 1,514 | 1.8% | 0.00 | 10 | \$17 | 61% | 0.58 |
| FE-WPP | Outside Air Intake | Mfg: Chemicals | Process Air Compressor | Existing | end use | 1,514 | 1.4% | 0.00 | 10 | \$10.0 | 48% | 0.76 |
| FE-WPP | Outside Air Intake | Mfg: Chemicals | Process Air Compressor | New | end use | 1,514 | 1.4% | 0.00 | 10 | \$10.0 | 48% | 0.75 |
| FE-WPP | Receiver Capacity Addition | Mfg: Chemicals | Process Air Compressor | Existing | end use | 1,514 | 5.9% | 0.01 | 10 | \$28 | 36% | 1.04 |
| FE-WPP | Receiver Capacity Addition | Mfg: Chemicals | Process Air Compressor | New | end use | 1,514 | 5.9% | 0.01 | 10 | \$28 | 36% | 1.04 |
| FE-WPP | Refrigerated Cycling Dryers | Mfg: Chemicals | Process Air Compressor | Early | end use | 1,514 | 1.7% | 0.00 | 10 | \$3.5 | 21% | 1.92 |
| FE-WPP | Refrigerated Cycling Dryers | Mfg: Chemicals | Process Air Compressor | New | end use | 1,514 | 1.7% | 0.00 | 10 | \$3.5 | 21% | 1.92 |
| FE-WPP | Refrigerated Cycling Dryers | Mfg: Chemicals | Process Air Compressor | ROB | end use | 1,514 | 1.7% | 0.00 | 10 | \$3.5 | 21% | 1.92 |
| FE-WPP | VFD Controlled Compressor | Mfg: Chemicals | Process Air Compressor | Early | end use | 1,514 | 24% | 0.05 | 10 | \$149 | 28% | 0.82 |
| FE-WPP | VFD Controlled Compressor | Mfg: Chemicals | Process Air Compressor | New | end use | 1,514 | 24% | 0.05 | 10 | \$149 | 28% | 0.82 |
| FE-WPP | VFD Controlled Compressor | Mfg: Chemicals | Process Air Compressor | ROB | end use | 1,514 | 24% | 0.05 | 10 | \$149 | 28% | 0.82 |
| FE-WPP | Zero Loss Condensate Drain | Mfg: Chemicals | Process Air Compressor | Early | end use | 1,514 | 1.9% | 0.00 | 10 | \$8.7 | 36% | 1.05 |
| FE-WPP | Zero Loss Condensate Drain | Mfg: Chemicals | Process Air Compressor | New | end use | 1,514 | 1.9% | 0.00 | 10 | \$8.7 | 36% | 1.05 |
| FE-WPP | Zero Loss Condensate Drain | Mfg: Chemicals | Process Air Compressor | ROB | end use | 1,514 | 1.8% | 0.00 | 10 | \$8.7 | 36% | 1.05 |
| FE-WPP | Clean Room: Change Filter Strategy | Mfg: Chemicals | Process Cooling | Existing | end use | 124,014 | 40% | 10.34 | 1 | \$322 | 13% | 0.75 |
| FE-WPP | Clean Room: Change Filter Strategy | Mfg: Chemicals | Process Cooling | New | end use | 124,014 | 40% | 10.34 | 1 | \$322 | 13% | 0.75 |
| FE-WPP | Clean Room: Chiller Optimize | Mfg: Chemicals | Process Cooling | Existing | end use | 124,014 | 15% | 3.83 | 10 | \$1,497 | 21% | 2.82 |
| FE-WPP | Clean Room: Chiller Optimize | Mfg: Chemicals | Process Cooling | New | end use | 124,014 | 15% | 3.83 | 10 | \$1,497 | 21% | 2.82 |
| FE-WPP | Clean Room: Clean Room HVAC | Mfg: Chemicals | Process Cooling | Existing | end use | 124,014 | 9.0% | 2.33 | 15 | \$1,807 | 31% | 2.54 |
| FE-WPP | Clean Room: Clean Room HVAC | Mfg: Chemicals | Process Cooling | New | end use | 124,014 | 9.0% | 2.33 | 15 | \$1,807 | 31% | 2.54 |
| FE-WPP | Cooling Tower Optimization | Mfg: Chemicals | Process Cooling | Existing | building | 156,919 | 20% | 11.23 | 10 | \$962 | 15% | 4.90 |
| FE-WPP | Equipment: Chillers | Mfg: Chemicals | Process Cooling | Early | end use | 124,014 | 18% | 4.62 | 15 | \$5,820 | 39% | 1.77 |
| FE-WPP | Equipment: Chillers | Mfg: Chemicals | Process Cooling | New | end use | 124,014 | 18% | 4.62 | 15 | \$5,820 | 39% | 1.77 |
| FE-WPP | Equipment: Chillers | Mfg: Chemicals | Process Cooling | ROB | end use | 124,014 | 18% | 4.62 | 15 | \$5,820 | 39% | 1.77 |
| FE-WPP | Facility Energy Management | Mfg: Chemicals | Process Cooling | Existing | end use | 124,014 | 1.9% | 0.48 | 2 | \$48 | 50% | 1.17 |
| FE-WPP | Facility Energy Management | Mfg: Chemicals | Process Cooling | New | end use | 124,014 | 1.9% | 0.48 | 2 | \$48 | 50% | 1.17 |
| FE-WPP | Improved Controls - Process Cooling | Mfg: Chemicals | Process Cooling | Existing | end use | 124,014 | 6.0% | 1.55 | 10 | \$6,548 | 47% | 0.45 |
| FE-WPP | Improved Controls - Process Cooling | Mfg: Chemicals | Process Cooling | New | end use | 124,014 | 6.0% | 1.55 | 10 | \$6,548 | 47% | 0.45 |
| FE-WPP | VFD on Cooling Tower Fan | Mfg: Chemicals | Process Cooling | Early | motor | 156,919 | 21% | 9.90 | 15 | \$7,246 | 20% | 2.23 |
| FE-WPP | VFD on Cooling Tower Fan | Mfg: Chemicals | Process Cooling | New | motor | 156,919 | 22% | 9.90 | 15 | \$7,384 | 20% | 2.22 |
| FE-WPP | VFD on Cooling Tower Fan | Mfg: Chemicals | Process Cooling | ROB | motor | 156,919 | 22% | 9.90 | 15 | \$7,384 | 20% | 2.22 |
| FE-WPP | Improved Controls - Process Heating | Mfg: Chemicals | Process Heating | Existing | end use | 94,233 | 17% | 2.21 | 10 | \$1,083 | 77% | 2.89 |
| FE-WPP | Improved Controls - Process Heating | Mfg: Chemicals | Process Heating | New | end use | 94,233 | 17% | 2.21 | 10 | \$1,083 | 77% | 2.89 |
| FE-WPP | Process Heat O&M | Mfg: Chemicals | Process Heating | Existing | end use | 94,233 | 16% | 2.09 | 2 | \$654 | 77% | 0.88 |
| FE-WPP | Process Heat O&M | Mfg: Chemicals | Process Heating | New | end use | 94,233 | 16% | 2.09 | 2 | \$654 | 77% | 0.88 |
| FE-WPP | Facility Energy Management | Mfg: Chemicals | Process Other | Existing | end use | 382,288 | 1.8% | 0.99 | 2 | \$147 | 73% | 1.09 |
| FE-WPP | Facility Energy Management | Mfg: Chemicals | Process Other | New | end use | 382,288 | 1.9% | 0.99 | 2 | \$147 | 73% | 1.09 |
| FE-WPP | Adjustable speed drive on compressors | Mfg: Chemicals | Process Refrigeration | Early | end use | 63,705 | 12% | 1.09 | 10 | \$1,178 | 77% | 1.78 |
| FE-WPP | Adjustable speed drive on compressors | Mfg: Chemicals | Process Refrigeration | New | end use | 63,705 | 12% | 1.09 | 10 | \$1,178 | 77% | 1.78 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---------------------------------------|------------------|-----------------------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Adjustable speed drive on compressors | Mfg: Chemicals | Process Refrigeration | ROB | end use | 63,705 | 12% | 1.09 | 10 | \$1,178 | 77% | 1.78 |
| FE-WPP | Cooling Tower Optimization | Mfg: Chemicals | Process Refrigeration | Existing | building | 80,608 | 20% | 5.77 | 10 | \$494 | 15% | 4.90 |
| FE-WPP | Optimization of operating parameters | Mfg: Chemicals | Process Refrigeration | Existing | end use | 63,705 | 13% | 1.22 | 3 | \$514 | 69% | 1.11 |
| FE-WPP | Optimization of operating parameters | Mfg: Chemicals | Process Refrigeration | New | end use | 63,705 | 13% | 1.22 | 3 | \$514 | 69% | 1.11 |
| FE-WPP | Synchronous Belts | Mfg: Chemicals | Process Refrigeration | Early | end use | 63,705 | 1.2% | 0.11 | 10 | \$94 | 77% | 2.06 |
| FE-WPP | Synchronous Belts | Mfg: Chemicals | Process Refrigeration | New | end use | 63,705 | 1.2% | 0.11 | 10 | \$94 | 77% | 2.06 |
| FE-WPP | Synchronous Belts | Mfg: Chemicals | Process Refrigeration | ROB | end use | 63,705 | 1.2% | 0.11 | 10 | \$94 | 77% | 2.06 |
| FE-WPP | VFD on Cooling Tower Fan | Mfg: Chemicals | Process Refrigeration | Early | motor | 80,608 | 21% | 5.08 | 15 | \$3,722 | 20% | 2.23 |
| FE-WPP | VFD on Cooling Tower Fan | Mfg: Chemicals | Process Refrigeration | New | motor | 80,608 | 22% | 5.08 | 15 | \$3,793 | 20% | 2.22 |
| FE-WPP | VFD on Cooling Tower Fan | Mfg: Chemicals | Process Refrigeration | ROB | motor | 80,608 | 22% | 5.08 | 15 | \$3,793 | 20% | 2.22 |
| FE-WPP | Facility Energy Management | Mfg: Chemicals | Pumps | Existing | end use | 705,185 | 1.9% | 1.69 | 2 | \$272 | 69% | 1.13 |
| FE-WPP | Facility Energy Management | Mfg: Chemicals | Pumps | New | end use | 705,185 | 1.9% | 1.69 | 2 | \$272 | 69% | 1.13 |
| FE-WPP | HE Motors | Mfg: Chemicals | Pumps | Early | end use | 705,185 | 2.0% | 1.88 | 15 | \$4,198 | 73% | 1.53 |
| FE-WPP | HE Motors | Mfg: Chemicals | Pumps | New | end use | 705,185 | 2.0% | 1.88 | 15 | \$4,198 | 73% | 1.53 |
| FE-WPP | HE Motors | Mfg: Chemicals | Pumps | ROB | end use | 705,185 | 2.0% | 1.88 | 15 | \$4,198 | 73% | 1.53 |
| FE-WPP | Motor rewinds | Mfg: Chemicals | Pumps | Existing | end use | 705,185 | 0.6% | 0.55 | 9 | \$1,003 | 11% | 1.24 |
| FE-WPP | Motor rewinds | Mfg: Chemicals | Pumps | New | end use | 705,185 | 0.6% | 0.55 | 9 | \$1,003 | 11% | 1.23 |
| FE-WPP | Pump Equipment Upgrade | Mfg: Chemicals | Pumps | Early | end use | 705,185 | 20% | 18.35 | 12 | \$17,630 | 81% | 2.34 |
| FE-WPP | Pump Equipment Upgrade | Mfg: Chemicals | Pumps | New | end use | 705,185 | 20% | 18.35 | 12 | \$17,630 | 81% | 2.34 |
| FE-WPP | Pump Equipment Upgrade | Mfg: Chemicals | Pumps | ROB | end use | 705,185 | 20% | 18.35 | 12 | \$17,630 | 81% | 2.34 |
| FE-WPP | Pump System Optimization | Mfg: Chemicals | Pumps | Existing | end use | 705,185 | 8.7% | 7.98 | 12 | \$12,912 | 38% | 1.66 |
| FE-WPP | Pump System Optimization | Mfg: Chemicals | Pumps | New | end use | 705,185 | 8.7% | 7.98 | 12 | \$12,912 | 38% | 1.66 |
| FE-WPP | Synchronous Belts | Mfg: Chemicals | Pumps | Early | end use | 705,185 | 1.2% | 1.07 | 10 | \$1,039 | 61% | 2.03 |
| FE-WPP | Synchronous Belts | Mfg: Chemicals | Pumps | New | end use | 705,185 | 1.2% | 1.07 | 10 | \$1,039 | 61% | 2.03 |
| FE-WPP | Synchronous Belts | Mfg: Chemicals | Pumps | ROB | end use | 705,185 | 1.2% | 1.07 | 10 | \$1,039 | 61% | 2.03 |
| FE-WPP | Circulating Fans | Mfg: Comp & Elec | Fans | Early | end use | 22,507 | 5.0% | 0.13 | 10 | \$137 | 68% | 2.10 |
| FE-WPP | Circulating Fans | Mfg: Comp & Elec | Fans | New | end use | 22,507 | 5.0% | 0.13 | 10 | \$137 | 68% | 2.11 |
| FE-WPP | Circulating Fans | Mfg: Comp & Elec | Fans | ROB | end use | 22,507 | 5.0% | 0.13 | 10 | \$137 | 68% | 2.10 |
| FE-WPP | Facility Energy Management | Mfg: Comp & Elec | Fans | Existing | end use | 22,507 | 1.9% | 0.05 | 2 | \$8.7 | 77% | 1.11 |
| FE-WPP | Facility Energy Management | Mfg: Comp & Elec | Fans | New | end use | 22,507 | 1.9% | 0.05 | 2 | \$8.7 | 77% | 1.12 |
| FE-WPP | HE Motors | Mfg: Comp & Elec | Fans | Early | end use | 22,507 | 2.0% | 0.05 | 15 | \$134 | 77% | 1.55 |
| FE-WPP | HE Motors | Mfg: Comp & Elec | Fans | New | end use | 22,507 | 2.0% | 0.05 | 15 | \$134 | 77% | 1.55 |
| FE-WPP | HE Motors | Mfg: Comp & Elec | Fans | ROB | end use | 22,507 | 2.0% | 0.05 | 15 | \$134 | 77% | 1.55 |
| FE-WPP | Improved Controls - Fans | Mfg: Comp & Elec | Fans | Existing | end use | 22,507 | 7.1% | 0.19 | 10 | \$87 | 88% | 3.23 |
| FE-WPP | Improved Controls - Fans | Mfg: Comp & Elec | Fans | New | end use | 22,507 | 7.1% | 0.19 | 10 | \$87 | 88% | 3.23 |
| FE-WPP | Properly Sized Fans | Mfg: Comp & Elec | Fans | Early | end use | 22,507 | 13% | 0.35 | 10 | \$461 | 41% | 1.79 |
| FE-WPP | Properly Sized Fans | Mfg: Comp & Elec | Fans | New | end use | 22,507 | 13% | 0.35 | 10 | \$461 | 41% | 1.79 |
| FE-WPP | Properly Sized Fans | Mfg: Comp & Elec | Fans | ROB | end use | 22,507 | 13% | 0.35 | 10 | \$461 | 41% | 1.79 |
| FE-WPP | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 338,001 | 9.2% | 8.05 | 15 | \$61,599 | 28% | 0.31 |
| FE-WPP | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Comp & Elec | HVAC | New | unit (ton) | 338,001 | 4.1% | 3.61 | 15 | \$14,924 | 28% | 0.56 |
| FE-WPP | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 338,001 | 4.1% | 3.61 | 15 | \$14,924 | 28% | 0.56 |
| FE-WPP | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 338,001 | 12% | 10.88 | 15 | \$72,618 | 28% | 0.36 |
| FE-WPP | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Comp & Elec | HVAC | New | unit (ton) | 338,001 | 7.7% | 6.75 | 15 | \$31,433 | 28% | 0.50 |
| FE-WPP | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 338,001 | 7.7% | 6.75 | 15 | \$31,433 | 28% | 0.50 |
| FE-WPP | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 338,001 | 15% | 13.36 | 15 | \$83,638 | 29% | 0.38 |
| FE-WPP | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Comp & Elec | HVAC | New | unit (ton) | 338,001 | 11% | 9.49 | 15 | \$47,943 | 29% | 0.47 |
| FE-WPP | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 338,001 | 11% | 9.49 | 15 | \$47,943 | 29% | 0.47 |
| FE-WPP | >760k min 10.2 EER Air Conditioner | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 338,001 | 2.1% | 1.86 | 15 | \$107,270 | 35% | 0.04 |
| FE-WPP | >760k min 10.2 EER Air Conditioner | Mfg: Comp & Elec | HVAC | New | unit (ton) | 338,001 | 2.8% | 2.48 | 15 | \$9,695 | 35% | 0.59 |
| FE-WPP | >760k min 10.2 EER Air Conditioner | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 338,001 | 2.8% | 2.48 | 15 | \$9,695 | 35% | 0.59 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|------------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | 135-240k min 12 EER Air Conditioner | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 338,001 | 10% | 9.17 | 15 | \$116,157 | 35% | 0.19 |
| FE-WPP | 135-240k min 12 EER Air Conditioner | Mfg: Comp & Elec | HVAC | New | unit (ton) | 338,001 | 5.8% | 5.06 | 15 | \$13,715 | 35% | 0.83 |
| FE-WPP | 135-240k min 12 EER Air Conditioner | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 338,001 | 5.8% | 5.06 | 15 | \$13,715 | 35% | 0.83 |
| FE-WPP | 240k-760k min 11 EER Air Conditioner | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 338,001 | 5.2% | 4.57 | 15 | \$107,337 | 35% | 0.10 |
| FE-WPP | 240k-760k min 11 EER Air Conditioner | Mfg: Comp & Elec | HVAC | New | unit (ton) | 338,001 | 5.3% | 4.68 | 15 | \$11,500 | 35% | 0.91 |
| FE-WPP | 240k-760k min 11 EER Air Conditioner | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 338,001 | 5.3% | 4.68 | 15 | \$11,500 | 35% | 0.91 |
| FE-WPP | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 338,001 | 9.7% | 8.51 | 15 | \$118,935 | 35% | 0.17 |
| FE-WPP | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Comp & Elec | HVAC | New | unit (ton) | 338,001 | 3.8% | 3.37 | 15 | \$16,969 | 35% | 0.47 |
| FE-WPP | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 338,001 | 3.8% | 3.37 | 15 | \$16,969 | 35% | 0.47 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Mfg: Comp & Elec | HVAC | Existing | building | 338,001 | 5.9% | 5.02 | 15 | \$1,024,089 | 71% | 0.01 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Mfg: Comp & Elec | HVAC | New | building | 338,001 | 3.7% | 3.15 | 15 | \$973,425 | 94% | 0.01 |
| FE-WPP | Chiller Tuneup/Diagnostics | Mfg: Comp & Elec | HVAC | Existing | building | 338,001 | 8.0% | 9.91 | 10 | \$863,067 | 59% | 0.02 |
| FE-WPP | Chiller Tuneup/Diagnostics | Mfg: Comp & Elec | HVAC | New | building | 338,001 | 8.0% | 9.93 | 10 | \$863,067 | 59% | 0.02 |
| FE-WPP | Cooling Tower Optimization | Mfg: Comp & Elec | HVAC | Existing | building | 338,001 | 20% | 24.19 | 10 | \$2,073 | 69% | 5.07 |
| FE-WPP | Duct Insulation, Add R8 | Mfg: Comp & Elec | HVAC | Existing | building | 338,001 | 1.5% | 1.08 | 15 | \$2,685 | 18% | 1.05 |
| FE-WPP | Duct Insulation, Add R8 | Mfg: Comp & Elec | HVAC | New | building | 338,001 | 1.5% | 1.08 | 15 | \$2,685 | 9% | 1.05 |
| FE-WPP | Ductless Heat Pump | Mfg: Comp & Elec | HVAC | Early | heat pump | 338,001 | 0.8% | 0.63 | 15 | \$26,722 | 83% | 0.06 |
| FE-WPP | Ductless Heat Pump | Mfg: Comp & Elec | HVAC | New | heat pump | 338,001 | 0.4% | 0.33 | 15 | \$7,760 | 83% | 0.12 |
| FE-WPP | Ductless Heat Pump | Mfg: Comp & Elec | HVAC | ROB | heat pump | 338,001 | 0.4% | 0.33 | 15 | \$7,760 | 83% | 0.12 |
| FE-WPP | DX Coil Cleaning | Mfg: Comp & Elec | HVAC | Existing | building | 338,001 | 13% | 15.50 | 1 | \$3,240 | 73% | 0.45 |
| FE-WPP | DX Coil Cleaning | Mfg: Comp & Elec | HVAC | New | building | 338,001 | 13% | 15.50 | 1 | \$3,240 | 73% | 0.45 |
| FE-WPP | Efficient Unit Heating System | Mfg: Comp & Elec | HVAC | Early | heater | 338,001 | 6.9% | 0.19 | 15 | \$18,247 | 83% | 0.59 |
| FE-WPP | Efficient Unit Heating System | Mfg: Comp & Elec | HVAC | New | heater | 338,001 | 4.0% | 0.11 | 15 | \$12,446 | 83% | 0.50 |
| FE-WPP | Efficient Unit Heating System | Mfg: Comp & Elec | HVAC | ROB | heater | 338,001 | 4.0% | 0.11 | 15 | \$12,446 | 83% | 0.50 |
| FE-WPP | Ground Source Heat Pump (Closed Loop) | Mfg: Comp & Elec | HVAC | Early | heat pump | 338,001 | 1.3% | 0.98 | 15 | \$55,486 | 19% | 0.05 |
| FE-WPP | Ground Source Heat Pump (Closed Loop) | Mfg: Comp & Elec | HVAC | New | heat pump | 338,001 | 1.0% | 0.77 | 15 | \$21,908 | 19% | 0.10 |
| FE-WPP | Ground Source Heat Pump (Closed Loop) | Mfg: Comp & Elec | HVAC | ROB | heat pump | 338,001 | 1.0% | 0.77 | 15 | \$21,908 | 19% | 0.10 |
| FE-WPP | Ground Source Heat Pump (Open Loop) | Mfg: Comp & Elec | HVAC | Early | heat pump | 338,001 | 1.3% | 0.98 | 15 | \$35,536 | 19% | 0.08 |
| FE-WPP | Ground Source Heat Pump (Open Loop) | Mfg: Comp & Elec | HVAC | New | heat pump | 338,001 | 1.0% | 0.77 | 15 | \$753 | 19% | 2.16 |
| FE-WPP | Ground Source Heat Pump (Open Loop) | Mfg: Comp & Elec | HVAC | ROB | heat pump | 338,001 | 1.0% | 0.77 | 15 | \$753 | 19% | 2.16 |
| FE-WPP | HE Air Cooled Chiller, 100 Tons | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 338,001 | 1.5% | 1.11 | 15 | \$393,184 | 89% | 0.01 |
| FE-WPP | HE Air Cooled Chiller, 100 Tons | Mfg: Comp & Elec | HVAC | New | unit (ton) | 338,001 | 0.4% | 0.31 | 15 | \$57,280 | 89% | 0.02 |
| FE-WPP | HE Air Cooled Chiller, 100 Tons | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 338,001 | 0.4% | 0.31 | 15 | \$57,280 | 89% | 0.02 |
| FE-WPP | HE Air Cooled Chiller, 150 Tons | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 338,001 | 1.4% | 1.10 | 15 | \$339,623 | 89% | 0.01 |
| FE-WPP | HE Air Cooled Chiller, 150 Tons | Mfg: Comp & Elec | HVAC | New | unit (ton) | 338,001 | 0.3% | 0.23 | 15 | \$28,130 | 89% | 0.02 |
| FE-WPP | HE Air Cooled Chiller, 150 Tons | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 338,001 | 0.3% | 0.23 | 15 | \$28,130 | 89% | 0.02 |
| FE-WPP | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Comp & Elec | HVAC | Early | heat pump | 338,001 | 1.4% | 1.04 | 12 | \$14,484 | 81% | 0.16 |
| FE-WPP | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Comp & Elec | HVAC | Early | heat pump | 338,001 | 1.1% | 0.85 | 12 | \$10,582 | 81% | 0.18 |
| FE-WPP | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Comp & Elec | HVAC | New | heat pump | 338,001 | 1.0% | 0.77 | 12 | \$6,467 | 81% | 0.26 |
| FE-WPP | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Comp & Elec | HVAC | New | heat pump | 338,001 | 0.8% | 0.57 | 12 | \$2,260 | 81% | 0.54 |
| FE-WPP | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Comp & Elec | HVAC | ROB | heat pump | 338,001 | 1.0% | 0.77 | 12 | \$6,467 | 81% | 0.26 |
| FE-WPP | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Comp & Elec | HVAC | ROB | heat pump | 338,001 | 0.8% | 0.57 | 12 | \$2,260 | 81% | 0.54 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 338,001 | 1.6% | 1.21 | 15 | \$31,197 | 89% | 0.11 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Comp & Elec | HVAC | New | unit (ton) | 338,001 | 0.9% | 0.70 | 15 | \$10,376 | 89% | 0.18 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 338,001 | 0.9% | 0.70 | 15 | \$10,376 | 89% | 0.18 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 338,001 | 1.4% | 1.07 | 15 | \$30,468 | 89% | 0.10 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Comp & Elec | HVAC | New | unit (ton) | 338,001 | 1.0% | 0.75 | 15 | \$5,950 | 89% | 0.34 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 338,001 | 1.4% | 1.07 | 15 | \$5,466 | 89% | 0.51 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 338,001 | 1.4% | 1.06 | 15 | \$36,061 | 89% | 0.08 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Comp & Elec | HVAC | New | unit (ton) | 338,001 | 0.9% | 0.68 | 15 | \$15,183 | 89% | 0.12 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|------------------|----------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 338,001 | 1.4% | 1.06 | 15 | \$13,741 | 89% | 0.21 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 338,001 | 1.4% | 1.06 | 15 | \$34,736 | 89% | 0.08 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Comp & Elec | HVAC | New | unit (ton) | 338,001 | 0.9% | 0.68 | 15 | \$13,198 | 89% | 0.14 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 338,001 | 1.4% | 1.06 | 15 | \$11,945 | 89% | 0.24 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 338,001 | 1.8% | 1.37 | 15 | \$37,429 | 89% | 0.10 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Comp & Elec | HVAC | New | unit (ton) | 338,001 | 0.5% | 0.42 | 15 | \$23,177 | 89% | 0.05 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 338,001 | 1.8% | 1.37 | 15 | \$17,997 | 89% | 0.21 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 338,001 | 2.1% | 1.63 | 15 | \$34,427 | 89% | 0.13 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Comp & Elec | HVAC | New | unit (ton) | 338,001 | 0.8% | 0.59 | 15 | \$13,814 | 89% | 0.12 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 338,001 | 0.8% | 0.59 | 15 | \$13,814 | 89% | 0.12 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 338,001 | 2.4% | 1.83 | 15 | \$29,178 | 89% | 0.17 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Comp & Elec | HVAC | New | unit (ton) | 338,001 | 0.9% | 0.68 | 15 | \$7,342 | 89% | 0.25 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 338,001 | 2.4% | 1.83 | 15 | \$5,235 | 89% | 0.87 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 338,001 | 1.8% | 1.38 | 15 | \$28,885 | 89% | 0.13 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Comp & Elec | HVAC | New | unit (ton) | 338,001 | 0.7% | 0.52 | 15 | \$8,088 | 89% | 0.17 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 338,001 | 1.8% | 1.38 | 15 | \$6,408 | 89% | 0.56 |
| FE-WPP | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Comp & Elec | HVAC | Existing | building | 338,001 | 2.9% | 1.99 | 5 | \$3,586 | 55% | 0.58 |
| FE-WPP | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Comp & Elec | HVAC | New | building | 338,001 | 0.6% | 0.79 | 5 | \$2,152 | 51% | 0.28 |
| FE-WPP | Improved Controls - HVAC | Mfg: Comp & Elec | HVAC | Existing | end use | 87,585 | 21% | 2.63 | 10 | \$921 | 76% | 3.46 |
| FE-WPP | Improved Controls - HVAC | Mfg: Comp & Elec | HVAC | New | end use | 87,585 | 21% | 2.63 | 10 | \$921 | 76% | 3.46 |
| FE-WPP | Outside Air Economizer | Mfg: Comp & Elec | HVAC | Existing | building | 338,001 | 1.1% | 0.95 | 10 | \$1,241,879 | 82% | 0.00 |
| FE-WPP | Outside Air Economizer | Mfg: Comp & Elec | HVAC | New | building | 338,001 | 1.1% | 0.95 | 10 | \$1,241,879 | 82% | 0.00 |
| FE-WPP | Recommissioning | Mfg: Comp & Elec | HVAC | Existing | end use | 87,585 | 5.0% | 0.63 | 10 | \$120 | 88% | 4.27 |
| FE-WPP | Recommissioning | Mfg: Comp & Elec | HVAC | New | end use | 87,585 | 5.0% | 0.63 | 10 | \$120 | 88% | 4.27 |
| FE-WPP | Room AC (with louvered sides) | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 338,001 | 7.7% | 5.87 | 9 | \$26,504 | 78% | 0.39 |
| FE-WPP | Room AC (with louvered sides) | Mfg: Comp & Elec | HVAC | New | unit (ton) | 338,001 | 2.6% | 1.96 | 9 | \$1,451 | 78% | 1.77 |
| FE-WPP | Room AC (with louvered sides) | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 338,001 | 2.6% | 1.96 | 9 | \$1,451 | 78% | 1.77 |
| FE-WPP | Variable Refrigerant Flow Heat Pump | Mfg: Comp & Elec | HVAC | New | measure | 338,001 | 0.1% | 0.09 | 13 | \$2,488 | 43% | 0.09 |
| FE-WPP | Variable Refrigerant Flow Heat Pump | Mfg: Comp & Elec | HVAC | ROB | measure | 338,001 | 0.1% | 0.09 | 13 | \$2,488 | 43% | 0.09 |
| FE-WPP | VFD on Cooling Tower Fan | Mfg: Comp & Elec | HVAC | Early | motor | 338,001 | 21% | 21.31 | 15 | \$15,607 | 15% | 2.32 |
| FE-WPP | VFD on Cooling Tower Fan | Mfg: Comp & Elec | HVAC | New | motor | 338,001 | 22% | 21.32 | 15 | \$15,905 | 15% | 2.31 |
| FE-WPP | VFD on Cooling Tower Fan | Mfg: Comp & Elec | HVAC | ROB | motor | 338,001 | 22% | 21.32 | 15 | \$15,905 | 15% | 2.31 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Mfg: Comp & Elec | HVAC | Existing | building | 338,001 | 19% | 16.16 | 15 | \$240,442 | 26% | 0.17 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Mfg: Comp & Elec | HVAC | New | building | 338,001 | 0.6% | 0.52 | 15 | \$184,430 | 94% | 0.01 |
| FE-WPP | Water Source Heat Pump (4 ton) | Mfg: Comp & Elec | HVAC | Early | heat pump | 338,001 | 1.5% | 1.17 | 15 | \$57,459 | 28% | 0.06 |
| FE-WPP | Water Source Heat Pump (4 ton) | Mfg: Comp & Elec | HVAC | New | heat pump | 338,001 | 1.1% | 0.86 | 15 | \$28,004 | 28% | 0.08 |
| FE-WPP | Water Source Heat Pump (4 ton) | Mfg: Comp & Elec | HVAC | ROB | heat pump | 338,001 | 1.1% | 0.86 | 15 | \$28,004 | 28% | 0.08 |
| FE-WPP | Efficient Metal Halide (High Bay) | Mfg: Comp & Elec | Lighting | Early | end use | 138,546 | 42% | 0.00 | 9 | \$21,649 | 53% | 0.73 |
| FE-WPP | Efficient Metal Halide (High Bay) | Mfg: Comp & Elec | Lighting | New | end use | 138,546 | 41% | 0.00 | 13 | \$578,264 | 61% | 0.04 |
| FE-WPP | Efficient Metal Halide (High Bay) | Mfg: Comp & Elec | Lighting | ROB | end use | 138,546 | 41% | 0.00 | 13 | \$441,942 | 61% | 0.06 |
| FE-WPP | Induction (High Bay) | Mfg: Comp & Elec | Lighting | Early | end use | 138,546 | 94% | 0.00 | 13 | \$64,417 | 95% | 0.77 |
| FE-WPP | Induction (High Bay) | Mfg: Comp & Elec | Lighting | New | end use | 138,546 | 94% | 0.00 | 13 | \$60,310 | 95% | 0.81 |
| FE-WPP | Induction (High Bay) | Mfg: Comp & Elec | Lighting | ROB | end use | 138,546 | 94% | 0.00 | 13 | \$45,838 | 95% | 1.02 |
| FE-WPP | LED (High Bay) | Mfg: Comp & Elec | Lighting | Early | end use | 138,546 | 69% | 0.00 | 14 | \$75,828 | 95% | 0.53 |
| FE-WPP | LED (High Bay) | Mfg: Comp & Elec | Lighting | New | end use | 138,546 | 55% | 0.00 | 14 | \$84,167 | 95% | 0.39 |
| FE-WPP | LED (High Bay) | Mfg: Comp & Elec | Lighting | ROB | end use | 138,546 | 59% | 0.00 | 14 | \$55,456 | 95% | 0.61 |
| FE-WPP | Lighting Controls | Mfg: Comp & Elec | Lighting | Existing | end use | 138,546 | 20% | 0.00 | 6 | \$519,393 | 16% | 0.01 |
| FE-WPP | Lighting Controls | Mfg: Comp & Elec | Lighting | New | end use | 138,546 | 12% | 0.00 | 10 | \$690,962 | 11% | 0.01 |
| FE-WPP | Linear Fluorescent (High Bay) | Mfg: Comp & Elec | Lighting | Early | end use | 138,546 | 17% | 0.00 | 14 | \$15,853 | 98% | 0.61 |
| FE-WPP | Linear Fluorescent (High Bay) | Mfg: Comp & Elec | Lighting | New | end use | 138,546 | 13% | 0.00 | 14 | \$5,027 | 91% | 1.29 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---------------------------------------|------------------|----------|----------|---------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Linear Fluorescent (High Bay) | Mfg: Comp & Elec | Lighting | ROB | end use | 138,546 | 13% | 0.00 | 14 | \$3,219 | 91% | 1.87 |
| FE-WPP | Metal Halide (High Bay) | Mfg: Comp & Elec | Lighting | Early | end use | 138,546 | 62% | 0.00 | 13 | \$95,242 | 38% | 0.37 |
| FE-WPP | Metal Halide (High Bay) | Mfg: Comp & Elec | Lighting | New | end use | 138,546 | 73% | 0.00 | 13 | \$22,771 | 38% | 1.46 |
| FE-WPP | Metal Halide (High Bay) | Mfg: Comp & Elec | Lighting | ROB | end use | 138,546 | 73% | 0.00 | 13 | \$17,306 | 38% | 1.78 |
| FE-WPP | Screw Base CFL | Mfg: Comp & Elec | Lighting | Early | end use | 138,546 | 80% | 0.00 | 7 | \$37,640 | 17% | 0.64 |
| FE-WPP | Screw Base CFL | Mfg: Comp & Elec | Lighting | New | end use | 138,546 | 73% | 0.00 | 9 | \$30,761 | 18% | 0.86 |
| FE-WPP | Screw Base CFL | Mfg: Comp & Elec | Lighting | ROB | end use | 138,546 | 73% | 0.00 | 9 | \$25,747 | 17% | 0.99 |
| FE-WPP | Screw Base LED | Mfg: Comp & Elec | Lighting | Early | end use | 138,546 | 76% | 0.00 | 9 | \$23,100 | 21% | 1.15 |
| FE-WPP | Screw Base LED | Mfg: Comp & Elec | Lighting | New | end use | 138,546 | 77% | 0.00 | 9 | \$12,868 | 20% | 1.75 |
| FE-WPP | Screw Base LED | Mfg: Comp & Elec | Lighting | ROB | end use | 138,546 | 77% | 0.00 | 9 | \$10,215 | 21% | 2.01 |
| FE-WPP | T8 High Performance Linear Florescent | Mfg: Comp & Elec | Lighting | Early | end use | 138,546 | 36% | 0.00 | 14 | \$13,258 | 71% | 1.37 |
| FE-WPP | T8 High Performance Linear Florescent | Mfg: Comp & Elec | Lighting | New | end use | 138,546 | 26% | 0.00 | 14 | \$4,743 | 76% | 2.31 |
| FE-WPP | T8 High Performance Linear Florescent | Mfg: Comp & Elec | Lighting | ROB | end use | 138,546 | 26% | 0.00 | 14 | \$3,605 | 76% | 2.73 |
| FE-WPP | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Comp & Elec | Motors | Early | end use | 7,106 | 0.9% | 0.01 | 15 | \$109 | 81% | 0.32 |
| FE-WPP | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Comp & Elec | Motors | New | end use | 7,106 | 0.9% | 0.01 | 15 | \$109 | 81% | 0.33 |
| FE-WPP | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Comp & Elec | Motors | ROB | end use | 7,106 | 0.9% | 0.01 | 15 | \$109 | 81% | 0.32 |
| FE-WPP | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Comp & Elec | Motors | Early | end use | 7,106 | 0.7% | 0.01 | 15 | \$66 | 73% | 0.43 |
| FE-WPP | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Comp & Elec | Motors | New | end use | 7,106 | 0.8% | 0.01 | 15 | \$66 | 73% | 0.43 |
| FE-WPP | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Comp & Elec | Motors | ROB | end use | 7,106 | 0.8% | 0.01 | 15 | \$66 | 73% | 0.43 |
| FE-WPP | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Comp & Elec | Motors | Early | end use | 7,106 | 0.5% | 0.00 | 15 | \$25 | 81% | 0.67 |
| FE-WPP | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Comp & Elec | Motors | New | end use | 7,106 | 0.5% | 0.00 | 15 | \$25 | 81% | 0.65 |
| FE-WPP | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Comp & Elec | Motors | ROB | end use | 7,106 | 0.5% | 0.00 | 15 | \$25 | 81% | 0.65 |
| FE-WPP | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Comp & Elec | Motors | Early | end use | 7,106 | 0.4% | 0.00 | 15 | \$8.3 | 73% | 1.52 |
| FE-WPP | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Comp & Elec | Motors | New | end use | 7,106 | 0.4% | 0.00 | 15 | \$8.3 | 73% | 1.57 |
| FE-WPP | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Comp & Elec | Motors | ROB | end use | 7,106 | 0.4% | 0.00 | 15 | \$8.3 | 73% | 1.56 |
| FE-WPP | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Comp & Elec | Motors | Early | end use | 7,106 | 0.9% | 0.01 | 15 | \$12 | 47% | 2.15 |
| FE-WPP | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Comp & Elec | Motors | New | end use | 7,106 | 0.9% | 0.01 | 15 | \$12 | 47% | 2.14 |
| FE-WPP | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Comp & Elec | Motors | ROB | end use | 7,106 | 0.9% | 0.01 | 15 | \$12 | 47% | 2.16 |
| FE-WPP | Facility Energy Management | Mfg: Comp & Elec | Motors | Existing | end use | 7,106 | 1.9% | 0.02 | 2 | \$2.7 | 77% | 1.11 |
| FE-WPP | Facility Energy Management | Mfg: Comp & Elec | Motors | New | end use | 7,106 | 1.8% | 0.02 | 2 | \$2.7 | 77% | 1.11 |
| FE-WPP | HE Motors | Mfg: Comp & Elec | Motors | Early | end use | 7,106 | 2.0% | 0.02 | 15 | \$42 | 38% | 1.55 |
| FE-WPP | HE Motors | Mfg: Comp & Elec | Motors | New | end use | 7,106 | 2.0% | 0.02 | 15 | \$42 | 38% | 1.55 |
| FE-WPP | HE Motors | Mfg: Comp & Elec | Motors | ROB | end use | 7,106 | 2.0% | 0.02 | 15 | \$42 | 38% | 1.55 |
| FE-WPP | High-Efficiency Ventilation System | Mfg: Comp & Elec | Motors | Early | end use | 7,106 | 5.7% | 0.06 | 10 | \$444 | 73% | 0.35 |
| FE-WPP | High-Efficiency Ventilation System | Mfg: Comp & Elec | Motors | New | end use | 7,106 | 5.7% | 0.06 | 10 | \$444 | 73% | 0.34 |
| FE-WPP | High-Efficiency Ventilation System | Mfg: Comp & Elec | Motors | ROB | end use | 7,106 | 5.7% | 0.06 | 10 | \$444 | 73% | 0.35 |
| FE-WPP | Improved Controls - Motors | Mfg: Comp & Elec | Motors | Existing | end use | 7,106 | 4.0% | 0.04 | 10 | \$31 | 73% | 2.24 |
| FE-WPP | Improved Controls - Motors | Mfg: Comp & Elec | Motors | New | end use | 7,106 | 4.0% | 0.04 | 10 | \$31 | 73% | 2.24 |
| FE-WPP | Motor Management Plan | Mfg: Comp & Elec | Motors | Existing | end use | 7,106 | 2.9% | 0.03 | 10 | \$14 | 73% | 2.87 |
| FE-WPP | Motor Management Plan | Mfg: Comp & Elec | Motors | New | end use | 7,106 | 2.9% | 0.03 | 10 | \$14 | 73% | 2.87 |
| FE-WPP | Motors Other | Mfg: Comp & Elec | Motors | Existing | end use | 7,106 | 1.1% | 0.01 | 15 | \$1.4 | 83% | 6.32 |
| FE-WPP | Motors Other | Mfg: Comp & Elec | Motors | New | end use | 7,106 | 1.1% | 0.01 | 15 | \$1.4 | 83% | 6.32 |
| FE-WPP | Motors: Rewind 101-200 HP | Mfg: Comp & Elec | Motors | Existing | end use | 7,106 | 0.6% | 0.01 | 10 | \$9.0 | 27% | 1.35 |
| FE-WPP | Motors: Rewind 101-200 HP | Mfg: Comp & Elec | Motors | New | end use | 7,106 | 0.6% | 0.01 | 10 | \$9.0 | 27% | 1.37 |
| FE-WPP | Motors: Rewind 201-500 HP | Mfg: Comp & Elec | Motors | Existing | end use | 7,106 | 0.6% | 0.01 | 8 | \$5.6 | 27% | 1.60 |
| FE-WPP | Motors: Rewind 201-500 HP | Mfg: Comp & Elec | Motors | New | end use | 7,106 | 0.6% | 0.01 | 8 | \$5.6 | 27% | 1.60 |
| FE-WPP | Motors: Rewind 20-50 HP | Mfg: Comp & Elec | Motors | Existing | end use | 7,106 | 1.0% | 0.01 | 11 | \$26 | 42% | 1.03 |
| FE-WPP | Motors: Rewind 20-50 HP | Mfg: Comp & Elec | Motors | New | end use | 7,106 | 1.0% | 0.01 | 11 | \$26 | 42% | 1.02 |
| FE-WPP | Motors: Rewind 500+ HP | Mfg: Comp & Elec | Motors | Existing | end use | 7,106 | 0.6% | 0.01 | 8 | \$4.0 | 11% | 2.01 |
| FE-WPP | Motors: Rewind 500+ HP | Mfg: Comp & Elec | Motors | New | end use | 7,106 | 0.6% | 0.01 | 8 | \$4.0 | 11% | 2.00 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|--|------------------|------------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Motors: Rewind 51-100 HP | Mfg: Comp & Elec | Motors | Existing | end use | 7,106 | 0.6% | 0.01 | 9 | \$13 | 42% | 1.01 |
| FE-WPP | Motors: Rewind 51-100 HP | Mfg: Comp & Elec | Motors | New | end use | 7,106 | 0.6% | 0.01 | 9 | \$13 | 42% | 1.01 |
| FE-WPP | Switch from Belt drive to Direct Drive | Mfg: Comp & Elec | Motors | Early | end use | 7,106 | 7.5% | 0.08 | 12 | \$114 | 30% | 1.63 |
| FE-WPP | Switch from Belt drive to Direct Drive | Mfg: Comp & Elec | Motors | New | end use | 7,106 | 7.5% | 0.08 | 12 | \$114 | 30% | 1.63 |
| FE-WPP | Switch from Belt drive to Direct Drive | Mfg: Comp & Elec | Motors | ROB | end use | 7,106 | 7.5% | 0.08 | 12 | \$114 | 30% | 1.63 |
| FE-WPP | Bldg Improvements | Mfg: Comp & Elec | Other | Existing | end use | 20,741 | 16% | 0.40 | 15 | \$452 | 72% | 2.66 |
| FE-WPP | Bldg Improvements | Mfg: Comp & Elec | Other | New | end use | 20,741 | 16% | 0.40 | 15 | \$452 | 72% | 2.66 |
| FE-WPP | Energy Project Management | Mfg: Comp & Elec | Other | Existing | end use | 20,741 | 29% | 0.72 | 11 | \$740 | 63% | 2.18 |
| FE-WPP | Energy Project Management | Mfg: Comp & Elec | Other | New | end use | 20,741 | 29% | 0.72 | 11 | \$740 | 63% | 2.18 |
| FE-WPP | Facility Energy Management | Mfg: Comp & Elec | Other | Existing | end use | 20,741 | 1.9% | 0.05 | 2 | \$8.0 | 76% | 1.09 |
| FE-WPP | Facility Energy Management | Mfg: Comp & Elec | Other | New | end use | 20,741 | 1.9% | 0.05 | 2 | \$8.0 | 76% | 1.09 |
| FE-WPP | Integrated Plant Energy Management | Mfg: Comp & Elec | Other | Existing | end use | 20,741 | 50% | 1.23 | 11 | \$2,044 | 48% | 1.57 |
| FE-WPP | Integrated Plant Energy Management | Mfg: Comp & Elec | Other | New | end use | 20,741 | 50% | 1.23 | 11 | \$2,044 | 48% | 1.57 |
| FE-WPP | Plant Energy Management | Mfg: Comp & Elec | Other | Existing | end use | 20,741 | 12% | 0.30 | 10 | \$52 | 55% | 4.32 |
| FE-WPP | Plant Energy Management | Mfg: Comp & Elec | Other | New | end use | 20,741 | 12% | 0.30 | 10 | \$52 | 55% | 4.32 |
| FE-WPP | Transformers | Mfg: Comp & Elec | Other | Early | end use | 20,741 | 1.6% | 0.04 | 15 | \$66 | 34% | 2.00 |
| FE-WPP | Transformers | Mfg: Comp & Elec | Other | New | end use | 20,741 | 1.6% | 0.04 | 15 | \$66 | 34% | 1.99 |
| FE-WPP | Transformers | Mfg: Comp & Elec | Other | ROB | end use | 20,741 | 1.6% | 0.04 | 15 | \$66 | 34% | 2.01 |
| FE-WPP | Air Compressor Demand Reduction | Mfg: Comp & Elec | Process Air Compressor | Existing | end use | 1,395 | 26% | 0.05 | 10 | \$21 | 52% | 3.10 |
| FE-WPP | Air Compressor Demand Reduction | Mfg: Comp & Elec | Process Air Compressor | New | end use | 1,395 | 26% | 0.05 | 10 | \$21 | 52% | 3.10 |
| FE-WPP | Facility Energy Management | Mfg: Comp & Elec | Process Air Compressor | Existing | end use | 1,395 | 1.9% | 0.00 | 2 | \$0.5 | 66% | 1.10 |
| FE-WPP | Facility Energy Management | Mfg: Comp & Elec | Process Air Compressor | New | end use | 1,395 | 1.9% | 0.00 | 2 | \$0.5 | 66% | 1.10 |
| FE-WPP | HE Compressor motors | Mfg: Comp & Elec | Process Air Compressor | Early | end use | 1,395 | 1.1% | 0.00 | 15 | \$5.3 | 73% | 1.34 |
| FE-WPP | HE Compressor motors | Mfg: Comp & Elec | Process Air Compressor | New | end use | 1,395 | 1.1% | 0.00 | 15 | \$5.3 | 73% | 1.34 |
| FE-WPP | HE Compressor motors | Mfg: Comp & Elec | Process Air Compressor | ROB | end use | 1,395 | 1.1% | 0.00 | 15 | \$5.3 | 73% | 1.35 |
| FE-WPP | Improved Controls - Air Compressor | Mfg: Comp & Elec | Process Air Compressor | Existing | end use | 1,395 | 41% | 0.07 | 10 | \$25 | 25% | 3.49 |
| FE-WPP | Improved Controls - Air Compressor | Mfg: Comp & Elec | Process Air Compressor | New | end use | 1,395 | 41% | 0.07 | 10 | \$25 | 25% | 3.49 |
| FE-WPP | Low Pressure-drop Filters | Mfg: Comp & Elec | Process Air Compressor | Existing | end use | 1,395 | 1.9% | 0.00 | 10 | \$16 | 61% | 0.58 |
| FE-WPP | Low Pressure-drop Filters | Mfg: Comp & Elec | Process Air Compressor | New | end use | 1,395 | 1.8% | 0.00 | 10 | \$16 | 61% | 0.58 |
| FE-WPP | Outside Air Intake | Mfg: Comp & Elec | Process Air Compressor | Existing | end use | 1,395 | 1.4% | 0.00 | 10 | \$9.2 | 48% | 0.76 |
| FE-WPP | Outside Air Intake | Mfg: Comp & Elec | Process Air Compressor | New | end use | 1,395 | 1.4% | 0.00 | 10 | \$9.2 | 48% | 0.75 |
| FE-WPP | Receiver Capacity Addition | Mfg: Comp & Elec | Process Air Compressor | Existing | end use | 1,395 | 6.0% | 0.01 | 10 | \$26 | 36% | 1.04 |
| FE-WPP | Receiver Capacity Addition | Mfg: Comp & Elec | Process Air Compressor | New | end use | 1,395 | 5.9% | 0.01 | 10 | \$26 | 36% | 1.04 |
| FE-WPP | Refrigerated Cycling Dryers | Mfg: Comp & Elec | Process Air Compressor | Early | end use | 1,395 | 1.7% | 0.00 | 10 | \$3.2 | 21% | 1.93 |
| FE-WPP | Refrigerated Cycling Dryers | Mfg: Comp & Elec | Process Air Compressor | New | end use | 1,395 | 1.7% | 0.00 | 10 | \$3.2 | 21% | 1.92 |
| FE-WPP | Refrigerated Cycling Dryers | Mfg: Comp & Elec | Process Air Compressor | ROB | end use | 1,395 | 1.7% | 0.00 | 10 | \$3.2 | 21% | 1.92 |
| FE-WPP | VFD Controlled Compressor | Mfg: Comp & Elec | Process Air Compressor | Early | end use | 1,395 | 24% | 0.04 | 10 | \$137 | 28% | 0.82 |
| FE-WPP | VFD Controlled Compressor | Mfg: Comp & Elec | Process Air Compressor | New | end use | 1,395 | 24% | 0.04 | 10 | \$137 | 28% | 0.82 |
| FE-WPP | VFD Controlled Compressor | Mfg: Comp & Elec | Process Air Compressor | ROB | end use | 1,395 | 24% | 0.04 | 10 | \$137 | 28% | 0.82 |
| FE-WPP | Zero Loss Condensate Drain | Mfg: Comp & Elec | Process Air Compressor | Early | end use | 1,395 | 1.8% | 0.00 | 10 | \$8.0 | 36% | 1.05 |
| FE-WPP | Zero Loss Condensate Drain | Mfg: Comp & Elec | Process Air Compressor | New | end use | 1,395 | 1.8% | 0.00 | 10 | \$8.0 | 36% | 1.05 |
| FE-WPP | Zero Loss Condensate Drain | Mfg: Comp & Elec | Process Air Compressor | ROB | end use | 1,395 | 1.8% | 0.00 | 10 | \$8.0 | 36% | 1.05 |
| FE-WPP | Clean Room: Change Filter Strategy | Mfg: Comp & Elec | Process Cooling | Existing | end use | 14,485 | 40% | 1.21 | 1 | \$38 | 13% | 0.75 |
| FE-WPP | Clean Room: Change Filter Strategy | Mfg: Comp & Elec | Process Cooling | New | end use | 14,485 | 40% | 1.21 | 1 | \$38 | 13% | 0.75 |
| FE-WPP | Clean Room: Chiller Optimize | Mfg: Comp & Elec | Process Cooling | Existing | end use | 14,485 | 15% | 0.45 | 10 | \$175 | 21% | 2.82 |
| FE-WPP | Clean Room: Chiller Optimize | Mfg: Comp & Elec | Process Cooling | New | end use | 14,485 | 15% | 0.45 | 10 | \$175 | 21% | 2.82 |
| FE-WPP | Clean Room: Clean Room HVAC | Mfg: Comp & Elec | Process Cooling | Existing | end use | 14,485 | 9.0% | 0.27 | 15 | \$211 | 31% | 2.54 |
| FE-WPP | Clean Room: Clean Room HVAC | Mfg: Comp & Elec | Process Cooling | New | end use | 14,485 | 9.0% | 0.27 | 15 | \$211 | 31% | 2.54 |
| FE-WPP | Cooling Tower Optimization | Mfg: Comp & Elec | Process Cooling | Existing | building | 55,899 | 20% | 4.00 | 10 | \$343 | 15% | 4.90 |
| FE-WPP | Elec Chip Fab: Solidstate Chiller | Mfg: Comp & Elec | Process Cooling | Early | end use | 14,485 | 90% | 2.72 | 10 | \$6,629 | 42% | 0.74 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---------------------------------------|------------------|-----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Elec Chip Fab: Solidstate Chiller | Mfg: Comp & Elec | Process Cooling | New | end use | 14,485 | 90% | 2.72 | 10 | \$6,629 | 42% | 0.74 |
| FE-WPP | Elec Chip Fab: Solidstate Chiller | Mfg: Comp & Elec | Process Cooling | ROB | end use | 14,485 | 90% | 2.72 | 10 | \$6,629 | 42% | 0.74 |
| FE-WPP | Equipment: Chillers | Mfg: Comp & Elec | Process Cooling | Early | end use | 14,485 | 18% | 0.54 | 15 | \$680 | 39% | 1.77 |
| FE-WPP | Equipment: Chillers | Mfg: Comp & Elec | Process Cooling | New | end use | 14,485 | 18% | 0.54 | 15 | \$680 | 39% | 1.77 |
| FE-WPP | Equipment: Chillers | Mfg: Comp & Elec | Process Cooling | ROB | end use | 14,485 | 18% | 0.54 | 15 | \$680 | 39% | 1.77 |
| FE-WPP | Facility Energy Management | Mfg: Comp & Elec | Process Cooling | Existing | end use | 14,485 | 1.9% | 0.06 | 2 | \$5.6 | 50% | 1.17 |
| FE-WPP | Facility Energy Management | Mfg: Comp & Elec | Process Cooling | New | end use | 14,485 | 1.9% | 0.06 | 2 | \$5.6 | 50% | 1.17 |
| FE-WPP | Improved Controls - Process Cooling | Mfg: Comp & Elec | Process Cooling | Existing | end use | 14,485 | 6.0% | 0.18 | 10 | \$765 | 47% | 0.45 |
| FE-WPP | Improved Controls - Process Cooling | Mfg: Comp & Elec | Process Cooling | New | end use | 14,485 | 6.0% | 0.18 | 10 | \$765 | 47% | 0.45 |
| FE-WPP | VFD on Cooling Tower Fan | Mfg: Comp & Elec | Process Cooling | Early | motor | 55,899 | 21% | 3.53 | 15 | \$2,581 | 20% | 2.23 |
| FE-WPP | VFD on Cooling Tower Fan | Mfg: Comp & Elec | Process Cooling | New | motor | 55,899 | 22% | 3.53 | 15 | \$2,630 | 20% | 2.22 |
| FE-WPP | VFD on Cooling Tower Fan | Mfg: Comp & Elec | Process Cooling | ROB | motor | 55,899 | 22% | 3.53 | 15 | \$2,630 | 20% | 2.22 |
| FE-WPP | Improved Controls - Process Heating | Mfg: Comp & Elec | Process Heating | Existing | end use | 36,785 | 17% | 0.86 | 10 | \$423 | 77% | 2.89 |
| FE-WPP | Improved Controls - Process Heating | Mfg: Comp & Elec | Process Heating | New | end use | 36,785 | 17% | 0.86 | 10 | \$423 | 77% | 2.89 |
| FE-WPP | Process Heat O&M | Mfg: Comp & Elec | Process Heating | Existing | end use | 36,785 | 16% | 0.82 | 2 | \$255 | 77% | 0.88 |
| FE-WPP | Process Heat O&M | Mfg: Comp & Elec | Process Heating | New | end use | 36,785 | 16% | 0.82 | 2 | \$255 | 77% | 0.88 |
| FE-WPP | Elec Chip Fab: Eliminate Exhaust | Mfg: Comp & Elec | Process Other | Existing | end use | 13,599 | 5.0% | 0.10 | 10 | \$127 | 68% | 1.55 |
| FE-WPP | Elec Chip Fab: Eliminate Exhaust | Mfg: Comp & Elec | Process Other | New | end use | 13,599 | 5.0% | 0.10 | 10 | \$127 | 68% | 1.55 |
| FE-WPP | Elec Chip Fab: Exhaust Injector | Mfg: Comp & Elec | Process Other | Existing | end use | 13,599 | 100% | 1.91 | 10 | \$6,124 | 68% | 0.76 |
| FE-WPP | Elec Chip Fab: Exhaust Injector | Mfg: Comp & Elec | Process Other | New | end use | 13,599 | 100% | 1.91 | 10 | \$6,124 | 68% | 0.76 |
| FE-WPP | Elec Chip Fab: Reduce Gas Pressure | Mfg: Comp & Elec | Process Other | Existing | end use | 13,599 | 10% | 0.19 | 10 | \$0.0 | 68% | 5.66 |
| FE-WPP | Elec Chip Fab: Reduce Gas Pressure | Mfg: Comp & Elec | Process Other | New | end use | 13,599 | 10.0% | 0.19 | 10 | \$0.0 | 68% | 5.66 |
| FE-WPP | Facility Energy Management | Mfg: Comp & Elec | Process Other | Existing | end use | 13,599 | 1.9% | 0.04 | 2 | \$5.2 | 77% | 1.09 |
| FE-WPP | Facility Energy Management | Mfg: Comp & Elec | Process Other | New | end use | 13,599 | 1.9% | 0.04 | 2 | \$5.2 | 77% | 1.10 |
| FE-WPP | Adjustable speed drive on compressors | Mfg: Comp & Elec | Process Refrigeration | Early | end use | 7,441 | 12% | 0.13 | 10 | \$138 | 30% | 1.78 |
| FE-WPP | Adjustable speed drive on compressors | Mfg: Comp & Elec | Process Refrigeration | New | end use | 7,441 | 12% | 0.13 | 10 | \$138 | 30% | 1.78 |
| FE-WPP | Adjustable speed drive on compressors | Mfg: Comp & Elec | Process Refrigeration | ROB | end use | 7,441 | 12% | 0.13 | 10 | \$138 | 30% | 1.78 |
| FE-WPP | Cooling Tower Optimization | Mfg: Comp & Elec | Process Refrigeration | Existing | building | 28,715 | 20% | 2.06 | 10 | \$176 | 15% | 4.90 |
| FE-WPP | Optimization of operating parameters | Mfg: Comp & Elec | Process Refrigeration | Existing | end use | 7,441 | 13% | 0.14 | 3 | \$60 | 27% | 1.11 |
| FE-WPP | Optimization of operating parameters | Mfg: Comp & Elec | Process Refrigeration | New | end use | 7,441 | 13% | 0.14 | 3 | \$60 | 27% | 1.11 |
| FE-WPP | VFD on Cooling Tower Fan | Mfg: Comp & Elec | Process Refrigeration | Early | motor | 28,715 | 21% | 1.81 | 15 | \$1,326 | 20% | 2.23 |
| FE-WPP | VFD on Cooling Tower Fan | Mfg: Comp & Elec | Process Refrigeration | New | motor | 28,715 | 22% | 1.81 | 15 | \$1,351 | 20% | 2.22 |
| FE-WPP | VFD on Cooling Tower Fan | Mfg: Comp & Elec | Process Refrigeration | ROB | motor | 28,715 | 22% | 1.81 | 15 | \$1,351 | 20% | 2.22 |
| FE-WPP | Facility Energy Management | Mfg: Comp & Elec | Pumps | Existing | end use | 39,832 | 1.9% | 0.10 | 2 | \$15 | 73% | 1.13 |
| FE-WPP | Facility Energy Management | Mfg: Comp & Elec | Pumps | New | end use | 39,832 | 1.9% | 0.10 | 2 | \$15 | 73% | 1.13 |
| FE-WPP | HE Motors | Mfg: Comp & Elec | Pumps | Early | end use | 39,832 | 2.0% | 0.11 | 15 | \$237 | 77% | 1.53 |
| FE-WPP | HE Motors | Mfg: Comp & Elec | Pumps | New | end use | 39,832 | 2.0% | 0.11 | 15 | \$237 | 77% | 1.53 |
| FE-WPP | HE Motors | Mfg: Comp & Elec | Pumps | ROB | end use | 39,832 | 2.0% | 0.11 | 15 | \$237 | 77% | 1.53 |
| FE-WPP | Motor rewinds | Mfg: Comp & Elec | Pumps | Existing | end use | 39,832 | 0.6% | 0.03 | 9 | \$57 | 12% | 1.23 |
| FE-WPP | Motor rewinds | Mfg: Comp & Elec | Pumps | New | end use | 39,832 | 0.6% | 0.03 | 9 | \$57 | 12% | 1.24 |
| FE-WPP | Circulating Fans | Mfg: Food | Fans | Early | end use | 204,721 | 5.0% | 1.22 | 10 | \$1,246 | 68% | 2.10 |
| FE-WPP | Circulating Fans | Mfg: Food | Fans | New | end use | 204,721 | 5.0% | 1.22 | 10 | \$1,246 | 68% | 2.10 |
| FE-WPP | Circulating Fans | Mfg: Food | Fans | ROB | end use | 204,721 | 5.0% | 1.22 | 10 | \$1,246 | 68% | 2.11 |
| FE-WPP | Facility Energy Management | Mfg: Food | Fans | Existing | end use | 204,721 | 1.9% | 0.45 | 2 | \$79 | 77% | 1.12 |
| FE-WPP | Facility Energy Management | Mfg: Food | Fans | New | end use | 204,721 | 1.9% | 0.45 | 2 | \$79 | 77% | 1.11 |
| FE-WPP | Fan System Optimization | Mfg: Food | Fans | Existing | end use | 204,721 | 7.3% | 1.79 | 10 | \$2,792 | 83% | 1.57 |
| FE-WPP | Fan System Optimization | Mfg: Food | Fans | New | end use | 204,721 | 7.3% | 1.79 | 10 | \$2,792 | 83% | 1.57 |
| FE-WPP | HE Motors | Mfg: Food | Fans | Early | end use | 204,721 | 2.0% | 0.50 | 15 | \$1,219 | 77% | 1.55 |
| FE-WPP | HE Motors | Mfg: Food | Fans | New | end use | 204,721 | 2.0% | 0.50 | 15 | \$1,219 | 77% | 1.55 |
| FE-WPP | HE Motors | Mfg: Food | Fans | ROB | end use | 204,721 | 2.0% | 0.50 | 15 | \$1,219 | 77% | 1.55 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|--|-----------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Improved Controls - Fans | Mfg: Food | Fans | Existing | end use | 204,721 | 7.1% | 1.73 | 10 | \$794 | 60% | 3.23 |
| FE-WPP | Improved Controls - Fans | Mfg: Food | Fans | New | end use | 204,721 | 7.1% | 1.73 | 10 | \$794 | 60% | 3.23 |
| FE-WPP | Properly Sized Fans | Mfg: Food | Fans | Early | end use | 204,721 | 13% | 3.21 | 10 | \$4,193 | 41% | 1.79 |
| FE-WPP | Properly Sized Fans | Mfg: Food | Fans | New | end use | 204,721 | 13% | 3.21 | 10 | \$4,193 | 41% | 1.79 |
| FE-WPP | Properly Sized Fans | Mfg: Food | Fans | ROB | end use | 204,721 | 13% | 3.21 | 10 | \$4,193 | 41% | 1.79 |
| FE-WPP | Synchronous Belts | Mfg: Food | Fans | Early | end use | 204,721 | 1.2% | 0.28 | 10 | \$302 | 41% | 2.05 |
| FE-WPP | Synchronous Belts | Mfg: Food | Fans | New | end use | 204,721 | 1.2% | 0.28 | 10 | \$302 | 41% | 2.05 |
| FE-WPP | Synchronous Belts | Mfg: Food | Fans | ROB | end use | 204,721 | 1.2% | 0.28 | 10 | \$302 | 41% | 2.05 |
| FE-WPP | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Food | HVAC | Early | unit (ton) | 49,742 | 9.2% | 1.18 | 15 | \$9,065 | 28% | 0.31 |
| FE-WPP | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Food | HVAC | New | unit (ton) | 49,742 | 4.1% | 0.53 | 15 | \$2,196 | 28% | 0.56 |
| FE-WPP | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Food | HVAC | ROB | unit (ton) | 49,742 | 4.1% | 0.53 | 15 | \$2,196 | 28% | 0.56 |
| FE-WPP | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Food | HVAC | Early | unit (ton) | 49,742 | 12% | 1.60 | 15 | \$10,687 | 28% | 0.36 |
| FE-WPP | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Food | HVAC | New | unit (ton) | 49,742 | 7.7% | 0.99 | 15 | \$4,626 | 28% | 0.50 |
| FE-WPP | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Food | HVAC | ROB | unit (ton) | 49,742 | 7.7% | 0.99 | 15 | \$4,626 | 28% | 0.50 |
| FE-WPP | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Food | HVAC | Early | unit (ton) | 49,742 | 15% | 1.97 | 15 | \$12,309 | 29% | 0.38 |
| FE-WPP | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Food | HVAC | New | unit (ton) | 49,742 | 11% | 1.40 | 15 | \$7,055 | 29% | 0.47 |
| FE-WPP | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Food | HVAC | ROB | unit (ton) | 49,742 | 11% | 1.40 | 15 | \$7,055 | 29% | 0.47 |
| FE-WPP | >760k min 10.2 EER Air Conditioner | Mfg: Food | HVAC | Early | unit (ton) | 49,742 | 2.1% | 0.27 | 15 | \$15,786 | 35% | 0.04 |
| FE-WPP | >760k min 10.2 EER Air Conditioner | Mfg: Food | HVAC | New | unit (ton) | 49,742 | 2.8% | 0.36 | 15 | \$1,427 | 35% | 0.59 |
| FE-WPP | >760k min 10.2 EER Air Conditioner | Mfg: Food | HVAC | ROB | unit (ton) | 49,742 | 2.8% | 0.36 | 15 | \$1,427 | 35% | 0.59 |
| FE-WPP | 135-240k min 12 EER Air Conditioner | Mfg: Food | HVAC | Early | unit (ton) | 49,742 | 10% | 1.35 | 15 | \$17,094 | 35% | 0.19 |
| FE-WPP | 135-240k min 12 EER Air Conditioner | Mfg: Food | HVAC | New | unit (ton) | 49,742 | 5.8% | 0.74 | 15 | \$2,018 | 35% | 0.83 |
| FE-WPP | 135-240k min 12 EER Air Conditioner | Mfg: Food | HVAC | ROB | unit (ton) | 49,742 | 5.8% | 0.74 | 15 | \$2,018 | 35% | 0.83 |
| FE-WPP | 240k-760k min 11 EER Air Conditioner | Mfg: Food | HVAC | Early | unit (ton) | 49,742 | 5.2% | 0.67 | 15 | \$15,796 | 35% | 0.10 |
| FE-WPP | 240k-760k min 11 EER Air Conditioner | Mfg: Food | HVAC | New | unit (ton) | 49,742 | 5.3% | 0.69 | 15 | \$1,692 | 35% | 0.91 |
| FE-WPP | 240k-760k min 11 EER Air Conditioner | Mfg: Food | HVAC | ROB | unit (ton) | 49,742 | 5.3% | 0.69 | 15 | \$1,692 | 35% | 0.91 |
| FE-WPP | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Food | HVAC | Early | unit (ton) | 49,742 | 9.7% | 1.25 | 15 | \$17,503 | 35% | 0.17 |
| FE-WPP | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Food | HVAC | New | unit (ton) | 49,742 | 3.8% | 0.50 | 15 | \$2,497 | 35% | 0.47 |
| FE-WPP | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Food | HVAC | ROB | unit (ton) | 49,742 | 3.8% | 0.50 | 15 | \$2,497 | 35% | 0.47 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Mfg: Food | HVAC | Existing | building | 49,742 | 5.9% | 0.74 | 15 | \$150,710 | 71% | 0.01 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Mfg: Food | HVAC | New | building | 49,742 | 3.7% | 0.46 | 15 | \$143,254 | 94% | 0.01 |
| FE-WPP | Chiller Tuneup/Diagnostics | Mfg: Food | HVAC | Existing | building | 49,742 | 8.0% | 1.46 | 10 | \$127,013 | 59% | 0.02 |
| FE-WPP | Chiller Tuneup/Diagnostics | Mfg: Food | HVAC | New | building | 49,742 | 8.0% | 1.46 | 10 | \$127,013 | 59% | 0.02 |
| FE-WPP | Cooling Tower Optimization | Mfg: Food | HVAC | Existing | building | 49,742 | 20% | 3.56 | 10 | \$305 | 69% | 5.07 |
| FE-WPP | Duct Insulation, Add R8 | Mfg: Food | HVAC | Existing | building | 49,742 | 1.5% | 0.16 | 15 | \$395 | 18% | 1.05 |
| FE-WPP | Duct Insulation, Add R8 | Mfg: Food | HVAC | New | building | 49,742 | 1.5% | 0.16 | 15 | \$395 | 9% | 1.05 |
| FE-WPP | Ductless Heat Pump | Mfg: Food | HVAC | Early | heat pump | 49,742 | 0.8% | 0.09 | 15 | \$3,933 | 83% | 0.06 |
| FE-WPP | Ductless Heat Pump | Mfg: Food | HVAC | New | heat pump | 49,742 | 0.4% | 0.05 | 15 | \$1,142 | 83% | 0.12 |
| FE-WPP | Ductless Heat Pump | Mfg: Food | HVAC | ROB | heat pump | 49,742 | 0.4% | 0.05 | 15 | \$1,142 | 83% | 0.12 |
| FE-WPP | DX Coil Cleaning | Mfg: Food | HVAC | Existing | building | 49,742 | 13% | 2.28 | 1 | \$477 | 73% | 0.45 |
| FE-WPP | DX Coil Cleaning | Mfg: Food | HVAC | New | building | 49,742 | 13% | 2.28 | 1 | \$477 | 73% | 0.45 |
| FE-WPP | Efficient Unit Heating System | Mfg: Food | HVAC | Early | heater | 49,742 | 6.9% | 0.03 | 15 | \$2,685 | 83% | 0.59 |
| FE-WPP | Efficient Unit Heating System | Mfg: Food | HVAC | New | heater | 49,742 | 4.0% | 0.02 | 15 | \$1,832 | 83% | 0.50 |
| FE-WPP | Efficient Unit Heating System | Mfg: Food | HVAC | ROB | heater | 49,742 | 4.0% | 0.02 | 15 | \$1,832 | 83% | 0.50 |
| FE-WPP | Ground Source Heat Pump (Closed Loop) | Mfg: Food | HVAC | Early | heat pump | 49,742 | 1.3% | 0.14 | 15 | \$8,166 | 19% | 0.05 |
| FE-WPP | Ground Source Heat Pump (Closed Loop) | Mfg: Food | HVAC | New | heat pump | 49,742 | 1.0% | 0.11 | 15 | \$3,224 | 19% | 0.10 |
| FE-WPP | Ground Source Heat Pump (Closed Loop) | Mfg: Food | HVAC | ROB | heat pump | 49,742 | 1.0% | 0.11 | 15 | \$3,224 | 19% | 0.10 |
| FE-WPP | Ground Source Heat Pump (Open Loop) | Mfg: Food | HVAC | Early | heat pump | 49,742 | 1.3% | 0.14 | 15 | \$5,230 | 19% | 0.08 |
| FE-WPP | Ground Source Heat Pump (Open Loop) | Mfg: Food | HVAC | New | heat pump | 49,742 | 1.0% | 0.11 | 15 | \$111 | 19% | 2.16 |
| FE-WPP | Ground Source Heat Pump (Open Loop) | Mfg: Food | HVAC | ROB | heat pump | 49,742 | 1.0% | 0.11 | 15 | \$111 | 19% | 2.16 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|-----------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | HE Air Cooled Chiller, 100 Tons | Mfg: Food | HVAC | Early | unit (ton) | 49,742 | 1.5% | 0.16 | 15 | \$57,863 | 89% | 0.01 |
| FE-WPP | HE Air Cooled Chiller, 100 Tons | Mfg: Food | HVAC | New | unit (ton) | 49,742 | 0.4% | 0.05 | 15 | \$8,430 | 89% | 0.02 |
| FE-WPP | HE Air Cooled Chiller, 100 Tons | Mfg: Food | HVAC | ROB | unit (ton) | 49,742 | 0.4% | 0.05 | 15 | \$8,430 | 89% | 0.02 |
| FE-WPP | HE Air Cooled Chiller, 150 Tons | Mfg: Food | HVAC | Early | unit (ton) | 49,742 | 1.4% | 0.16 | 15 | \$49,981 | 89% | 0.01 |
| FE-WPP | HE Air Cooled Chiller, 150 Tons | Mfg: Food | HVAC | New | unit (ton) | 49,742 | 0.3% | 0.03 | 15 | \$4,140 | 89% | 0.02 |
| FE-WPP | HE Air Cooled Chiller, 150 Tons | Mfg: Food | HVAC | ROB | unit (ton) | 49,742 | 0.3% | 0.03 | 15 | \$4,140 | 89% | 0.02 |
| FE-WPP | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Food | HVAC | Early | heat pump | 49,742 | 1.4% | 0.15 | 12 | \$2,132 | 81% | 0.16 |
| FE-WPP | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Food | HVAC | Early | heat pump | 49,742 | 1.1% | 0.13 | 12 | \$1,557 | 81% | 0.18 |
| FE-WPP | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Food | HVAC | New | heat pump | 49,742 | 1.0% | 0.11 | 12 | \$952 | 81% | 0.26 |
| FE-WPP | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Food | HVAC | New | heat pump | 49,742 | 0.8% | 0.08 | 12 | \$333 | 81% | 0.54 |
| FE-WPP | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Food | HVAC | ROB | heat pump | 49,742 | 1.0% | 0.11 | 12 | \$952 | 81% | 0.26 |
| FE-WPP | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Food | HVAC | ROB | heat pump | 49,742 | 0.8% | 0.08 | 12 | \$333 | 81% | 0.54 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Food | HVAC | Early | unit (ton) | 49,742 | 1.6% | 0.18 | 15 | \$4,591 | 89% | 0.11 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Food | HVAC | New | unit (ton) | 49,742 | 0.9% | 0.10 | 15 | \$1,527 | 89% | 0.18 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Food | HVAC | ROB | unit (ton) | 49,742 | 0.9% | 0.10 | 15 | \$1,527 | 89% | 0.18 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Food | HVAC | Early | unit (ton) | 49,742 | 1.4% | 0.16 | 15 | \$4,484 | 89% | 0.10 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Food | HVAC | New | unit (ton) | 49,742 | 1.0% | 0.11 | 15 | \$876 | 89% | 0.34 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Food | HVAC | ROB | unit (ton) | 49,742 | 1.4% | 0.16 | 15 | \$804 | 89% | 0.51 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Food | HVAC | Early | unit (ton) | 49,742 | 1.4% | 0.16 | 15 | \$5,307 | 89% | 0.08 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Food | HVAC | New | unit (ton) | 49,742 | 0.9% | 0.10 | 15 | \$2,234 | 89% | 0.12 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Food | HVAC | ROB | unit (ton) | 49,742 | 1.4% | 0.16 | 15 | \$2,022 | 89% | 0.21 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Food | HVAC | Early | unit (ton) | 49,742 | 1.4% | 0.16 | 15 | \$5,112 | 89% | 0.08 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Food | HVAC | New | unit (ton) | 49,742 | 0.9% | 0.10 | 15 | \$1,942 | 89% | 0.14 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Food | HVAC | ROB | unit (ton) | 49,742 | 1.4% | 0.16 | 15 | \$1,758 | 89% | 0.24 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Food | HVAC | Early | unit (ton) | 49,742 | 1.8% | 0.20 | 15 | \$5,508 | 89% | 0.10 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Food | HVAC | New | unit (ton) | 49,742 | 0.5% | 0.06 | 15 | \$3,411 | 89% | 0.05 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Food | HVAC | ROB | unit (ton) | 49,742 | 1.8% | 0.20 | 15 | \$2,648 | 89% | 0.21 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Food | HVAC | Early | unit (ton) | 49,742 | 2.1% | 0.24 | 15 | \$5,066 | 89% | 0.13 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Food | HVAC | New | unit (ton) | 49,742 | 0.8% | 0.09 | 15 | \$2,033 | 89% | 0.12 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Food | HVAC | ROB | unit (ton) | 49,742 | 0.8% | 0.09 | 15 | \$2,033 | 89% | 0.12 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Food | HVAC | Early | unit (ton) | 49,742 | 2.4% | 0.27 | 15 | \$4,294 | 89% | 0.17 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Food | HVAC | New | unit (ton) | 49,742 | 0.9% | 0.10 | 15 | \$1,080 | 89% | 0.25 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Food | HVAC | ROB | unit (ton) | 49,742 | 2.4% | 0.27 | 15 | \$770 | 89% | 0.87 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Food | HVAC | Early | unit (ton) | 49,742 | 1.8% | 0.20 | 15 | \$4,251 | 89% | 0.13 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Food | HVAC | New | unit (ton) | 49,742 | 0.7% | 0.08 | 15 | \$1,190 | 89% | 0.17 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Food | HVAC | ROB | unit (ton) | 49,742 | 1.8% | 0.20 | 15 | \$943 | 89% | 0.56 |
| FE-WPP | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Food | HVAC | Existing | building | 49,742 | 2.9% | 0.29 | 5 | \$528 | 55% | 0.58 |
| FE-WPP | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Food | HVAC | New | building | 49,742 | 0.6% | 0.12 | 5 | \$317 | 51% | 0.28 |
| FE-WPP | Improved Controls - HVAC | Mfg: Food | HVAC | Existing | end use | 127,071 | 21% | 3.81 | 10 | \$1,336 | 76% | 3.46 |
| FE-WPP | Improved Controls - HVAC | Mfg: Food | HVAC | New | end use | 127,071 | 21% | 3.81 | 10 | \$1,336 | 76% | 3.46 |
| FE-WPP | Outside Air Economizer | Mfg: Food | HVAC | Existing | building | 49,742 | 1.1% | 0.14 | 10 | \$182,761 | 82% | 0.00 |
| FE-WPP | Outside Air Economizer | Mfg: Food | HVAC | New | building | 49,742 | 1.1% | 0.14 | 10 | \$182,761 | 82% | 0.00 |
| FE-WPP | Recommissioning | Mfg: Food | HVAC | Existing | end use | 127,071 | 5.0% | 0.91 | 10 | \$174 | 88% | 4.27 |
| FE-WPP | Recommissioning | Mfg: Food | HVAC | New | end use | 127,071 | 5.0% | 0.91 | 10 | \$174 | 88% | 4.27 |
| FE-WPP | Room AC (with louvered sides) | Mfg: Food | HVAC | Early | unit (ton) | 49,742 | 7.7% | 0.86 | 9 | \$3,900 | 78% | 0.39 |
| FE-WPP | Room AC (with louvered sides) | Mfg: Food | HVAC | New | unit (ton) | 49,742 | 2.6% | 0.29 | 9 | \$214 | 78% | 1.77 |
| FE-WPP | Room AC (with louvered sides) | Mfg: Food | HVAC | ROB | unit (ton) | 49,742 | 2.6% | 0.29 | 9 | \$214 | 78% | 1.77 |
| FE-WPP | Variable Refrigerant Flow Heat Pump | Mfg: Food | HVAC | New | measure | 49,742 | 0.1% | 0.01 | 13 | \$366 | 43% | 0.09 |
| FE-WPP | Variable Refrigerant Flow Heat Pump | Mfg: Food | HVAC | ROB | measure | 49,742 | 0.1% | 0.01 | 13 | \$366 | 43% | 0.09 |
| FE-WPP | VFD on Cooling Tower Fan | Mfg: Food | HVAC | Early | motor | 49,742 | 21% | 3.14 | 15 | \$2,297 | 15% | 2.32 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---------------------------------------|-----------|----------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | VFD on Cooling Tower Fan | Mfg: Food | HVAC | New | motor | 49,742 | 22% | 3.14 | 15 | \$2,341 | 15% | 2.31 |
| FE-WPP | VFD on Cooling Tower Fan | Mfg: Food | HVAC | ROB | motor | 49,742 | 22% | 3.14 | 15 | \$2,341 | 15% | 2.31 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Mfg: Food | HVAC | Existing | building | 49,742 | 19% | 2.38 | 15 | \$35,385 | 26% | 0.17 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Mfg: Food | HVAC | New | building | 49,742 | 0.6% | 0.08 | 15 | \$27,142 | 94% | 0.01 |
| FE-WPP | Water Source Heat Pump (4 ton) | Mfg: Food | HVAC | Early | heat pump | 49,742 | 1.5% | 0.17 | 15 | \$8,456 | 28% | 0.06 |
| FE-WPP | Water Source Heat Pump (4 ton) | Mfg: Food | HVAC | New | heat pump | 49,742 | 1.1% | 0.13 | 15 | \$4,121 | 28% | 0.08 |
| FE-WPP | Water Source Heat Pump (4 ton) | Mfg: Food | HVAC | ROB | heat pump | 49,742 | 1.1% | 0.13 | 15 | \$4,121 | 28% | 0.08 |
| FE-WPP | Efficient Metal Halide (High Bay) | Mfg: Food | Lighting | Early | end use | 51,360 | 42% | 0.00 | 9 | \$8,026 | 53% | 0.73 |
| FE-WPP | Efficient Metal Halide (High Bay) | Mfg: Food | Lighting | New | end use | 51,360 | 41% | 0.00 | 13 | \$214,367 | 61% | 0.04 |
| FE-WPP | Efficient Metal Halide (High Bay) | Mfg: Food | Lighting | ROB | end use | 51,360 | 41% | 0.00 | 13 | \$163,831 | 61% | 0.06 |
| FE-WPP | Induction (High Bay) | Mfg: Food | Lighting | Early | end use | 51,360 | 94% | 0.00 | 13 | \$23,880 | 95% | 0.77 |
| FE-WPP | Induction (High Bay) | Mfg: Food | Lighting | New | end use | 51,360 | 94% | 0.00 | 13 | \$22,357 | 95% | 0.81 |
| FE-WPP | Induction (High Bay) | Mfg: Food | Lighting | ROB | end use | 51,360 | 94% | 0.00 | 13 | \$16,992 | 95% | 1.02 |
| FE-WPP | LED (High Bay) | Mfg: Food | Lighting | Early | end use | 51,360 | 69% | 0.00 | 14 | \$28,110 | 95% | 0.53 |
| FE-WPP | LED (High Bay) | Mfg: Food | Lighting | New | end use | 51,360 | 55% | 0.00 | 14 | \$31,201 | 95% | 0.39 |
| FE-WPP | LED (High Bay) | Mfg: Food | Lighting | ROB | end use | 51,360 | 59% | 0.00 | 14 | \$20,558 | 95% | 0.61 |
| FE-WPP | Lighting Controls | Mfg: Food | Lighting | Existing | end use | 51,360 | 20% | 0.00 | 6 | \$192,542 | 16% | 0.01 |
| FE-WPP | Lighting Controls | Mfg: Food | Lighting | New | end use | 51,360 | 12% | 0.00 | 10 | \$256,144 | 11% | 0.01 |
| FE-WPP | Linear Fluorescent (High Bay) | Mfg: Food | Lighting | Early | end use | 51,360 | 17% | 0.00 | 14 | \$5,877 | 98% | 0.61 |
| FE-WPP | Linear Fluorescent (High Bay) | Mfg: Food | Lighting | New | end use | 51,360 | 13% | 0.00 | 14 | \$1,864 | 91% | 1.29 |
| FE-WPP | Linear Fluorescent (High Bay) | Mfg: Food | Lighting | ROB | end use | 51,360 | 13% | 0.00 | 14 | \$1,193 | 91% | 1.87 |
| FE-WPP | Metal Halide (High Bay) | Mfg: Food | Lighting | Early | end use | 51,360 | 62% | 0.00 | 13 | \$35,307 | 38% | 0.37 |
| FE-WPP | Metal Halide (High Bay) | Mfg: Food | Lighting | New | end use | 51,360 | 73% | 0.00 | 13 | \$8,441 | 38% | 1.46 |
| FE-WPP | Metal Halide (High Bay) | Mfg: Food | Lighting | ROB | end use | 51,360 | 73% | 0.00 | 13 | \$6,415 | 38% | 1.78 |
| FE-WPP | Screw Base CFL | Mfg: Food | Lighting | Early | end use | 51,360 | 80% | 0.00 | 7 | \$13,953 | 17% | 0.64 |
| FE-WPP | Screw Base CFL | Mfg: Food | Lighting | New | end use | 51,360 | 73% | 0.00 | 9 | \$11,403 | 18% | 0.86 |
| FE-WPP | Screw Base CFL | Mfg: Food | Lighting | ROB | end use | 51,360 | 73% | 0.00 | 9 | \$9,545 | 17% | 0.99 |
| FE-WPP | Screw Base LED | Mfg: Food | Lighting | Early | end use | 51,360 | 76% | 0.00 | 9 | \$8,563 | 21% | 1.15 |
| FE-WPP | Screw Base LED | Mfg: Food | Lighting | New | end use | 51,360 | 77% | 0.00 | 9 | \$4,770 | 20% | 1.75 |
| FE-WPP | Screw Base LED | Mfg: Food | Lighting | ROB | end use | 51,360 | 77% | 0.00 | 9 | \$3,787 | 21% | 2.01 |
| FE-WPP | T8 High Performance Linear Florescent | Mfg: Food | Lighting | Early | end use | 51,360 | 36% | 0.00 | 14 | \$4,915 | 71% | 1.37 |
| FE-WPP | T8 High Performance Linear Florescent | Mfg: Food | Lighting | New | end use | 51,360 | 26% | 0.00 | 14 | \$1,758 | 76% | 2.31 |
| FE-WPP | T8 High Performance Linear Florescent | Mfg: Food | Lighting | ROB | end use | 51,360 | 26% | 0.00 | 14 | \$1,336 | 76% | 2.73 |
| FE-WPP | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Food | Motors | Early | end use | 64,633 | 0.9% | 0.08 | 15 | \$987 | 81% | 0.32 |
| FE-WPP | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Food | Motors | New | end use | 64,633 | 0.9% | 0.08 | 15 | \$987 | 81% | 0.33 |
| FE-WPP | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Food | Motors | ROB | end use | 64,633 | 0.9% | 0.08 | 15 | \$987 | 81% | 0.32 |
| FE-WPP | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Food | Motors | Early | end use | 64,633 | 0.8% | 0.07 | 15 | \$600 | 73% | 0.44 |
| FE-WPP | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Food | Motors | New | end use | 64,633 | 0.8% | 0.07 | 15 | \$600 | 73% | 0.43 |
| FE-WPP | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Food | Motors | ROB | end use | 64,633 | 0.8% | 0.07 | 15 | \$600 | 73% | 0.43 |
| FE-WPP | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Food | Motors | Early | end use | 64,633 | 0.4% | 0.04 | 15 | \$230 | 81% | 0.65 |
| FE-WPP | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Food | Motors | New | end use | 64,633 | 0.5% | 0.04 | 15 | \$230 | 81% | 0.66 |
| FE-WPP | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Food | Motors | ROB | end use | 64,633 | 0.5% | 0.04 | 15 | \$230 | 81% | 0.66 |
| FE-WPP | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Food | Motors | Early | end use | 64,633 | 0.4% | 0.04 | 15 | \$76 | 73% | 1.53 |
| FE-WPP | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Food | Motors | New | end use | 64,633 | 0.4% | 0.04 | 15 | \$76 | 73% | 1.53 |
| FE-WPP | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Food | Motors | ROB | end use | 64,633 | 0.4% | 0.04 | 15 | \$76 | 73% | 1.55 |
| FE-WPP | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Food | Motors | Early | end use | 64,633 | 0.9% | 0.08 | 15 | \$114 | 47% | 2.13 |
| FE-WPP | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Food | Motors | New | end use | 64,633 | 0.9% | 0.08 | 15 | \$114 | 47% | 2.15 |
| FE-WPP | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Food | Motors | ROB | end use | 64,633 | 0.9% | 0.08 | 15 | \$114 | 47% | 2.14 |
| FE-WPP | Facility Energy Management | Mfg: Food | Motors | Existing | end use | 64,633 | 1.9% | 0.17 | 2 | \$25 | 77% | 1.11 |
| FE-WPP | Facility Energy Management | Mfg: Food | Motors | New | end use | 64,633 | 1.9% | 0.17 | 2 | \$25 | 77% | 1.12 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|--|-----------|------------------------|----------|---------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | HE Motors | Mfg: Food | Motors | Early | end use | 64,633 | 2.0% | 0.19 | 15 | \$385 | 38% | 1.55 |
| FE-WPP | HE Motors | Mfg: Food | Motors | New | end use | 64,633 | 2.0% | 0.19 | 15 | \$385 | 38% | 1.55 |
| FE-WPP | HE Motors | Mfg: Food | Motors | ROB | end use | 64,633 | 2.0% | 0.19 | 15 | \$385 | 38% | 1.55 |
| FE-WPP | High-Efficiency Ventilation System | Mfg: Food | Motors | Early | end use | 64,633 | 5.7% | 0.52 | 10 | \$4,039 | 73% | 0.35 |
| FE-WPP | High-Efficiency Ventilation System | Mfg: Food | Motors | New | end use | 64,633 | 5.7% | 0.52 | 10 | \$4,039 | 73% | 0.34 |
| FE-WPP | High-Efficiency Ventilation System | Mfg: Food | Motors | ROB | end use | 64,633 | 5.7% | 0.52 | 10 | \$4,039 | 73% | 0.34 |
| FE-WPP | Improved Controls - Motors | Mfg: Food | Motors | Existing | end use | 64,633 | 4.0% | 0.37 | 10 | \$281 | 73% | 2.24 |
| FE-WPP | Improved Controls - Motors | Mfg: Food | Motors | New | end use | 64,633 | 4.0% | 0.37 | 10 | \$281 | 73% | 2.24 |
| FE-WPP | Motor Management Plan | Mfg: Food | Motors | Existing | end use | 64,633 | 2.9% | 0.27 | 10 | \$132 | 73% | 2.88 |
| FE-WPP | Motor Management Plan | Mfg: Food | Motors | New | end use | 64,633 | 2.9% | 0.27 | 10 | \$132 | 73% | 2.87 |
| FE-WPP | Motors Other | Mfg: Food | Motors | Existing | end use | 64,633 | 1.1% | 0.10 | 15 | \$13 | 83% | 6.32 |
| FE-WPP | Motors Other | Mfg: Food | Motors | New | end use | 64,633 | 1.1% | 0.10 | 15 | \$13 | 83% | 6.32 |
| FE-WPP | Motors: Rewind 101-200 HP | Mfg: Food | Motors | Existing | end use | 64,633 | 0.6% | 0.05 | 10 | \$82 | 27% | 1.37 |
| FE-WPP | Motors: Rewind 101-200 HP | Mfg: Food | Motors | New | end use | 64,633 | 0.6% | 0.05 | 10 | \$82 | 27% | 1.37 |
| FE-WPP | Motors: Rewind 201-500 HP | Mfg: Food | Motors | Existing | end use | 64,633 | 0.5% | 0.05 | 8 | \$51 | 27% | 1.59 |
| FE-WPP | Motors: Rewind 201-500 HP | Mfg: Food | Motors | New | end use | 64,633 | 0.5% | 0.05 | 8 | \$51 | 27% | 1.59 |
| FE-WPP | Motors: Rewind 20-50 HP | Mfg: Food | Motors | Existing | end use | 64,633 | 1.0% | 0.10 | 11 | \$240 | 42% | 1.03 |
| FE-WPP | Motors: Rewind 20-50 HP | Mfg: Food | Motors | New | end use | 64,633 | 1.0% | 0.10 | 11 | \$240 | 42% | 1.02 |
| FE-WPP | Motors: Rewind 500+ HP | Mfg: Food | Motors | Existing | end use | 64,633 | 0.6% | 0.05 | 8 | \$37 | 11% | 2.00 |
| FE-WPP | Motors: Rewind 500+ HP | Mfg: Food | Motors | New | end use | 64,633 | 0.6% | 0.05 | 8 | \$37 | 11% | 2.01 |
| FE-WPP | Motors: Rewind 51-100 HP | Mfg: Food | Motors | Existing | end use | 64,633 | 0.6% | 0.06 | 9 | \$118 | 42% | 1.00 |
| FE-WPP | Motors: Rewind 51-100 HP | Mfg: Food | Motors | New | end use | 64,633 | 0.6% | 0.06 | 9 | \$118 | 42% | 1.00 |
| FE-WPP | Switch from Belt drive to Direct Drive | Mfg: Food | Motors | Early | end use | 64,633 | 7.5% | 0.69 | 12 | \$1,037 | 30% | 1.63 |
| FE-WPP | Switch from Belt drive to Direct Drive | Mfg: Food | Motors | New | end use | 64,633 | 7.5% | 0.69 | 12 | \$1,037 | 30% | 1.63 |
| FE-WPP | Switch from Belt drive to Direct Drive | Mfg: Food | Motors | ROB | end use | 64,633 | 7.5% | 0.69 | 12 | \$1,037 | 30% | 1.63 |
| FE-WPP | Synchronous Belts | Mfg: Food | Motors | Early | end use | 64,633 | 1.2% | 0.11 | 10 | \$95 | 30% | 2.05 |
| FE-WPP | Synchronous Belts | Mfg: Food | Motors | New | end use | 64,633 | 1.2% | 0.11 | 10 | \$95 | 30% | 2.05 |
| FE-WPP | Synchronous Belts | Mfg: Food | Motors | ROB | end use | 64,633 | 1.2% | 0.11 | 10 | \$95 | 30% | 2.05 |
| FE-WPP | Bldg Improvements | Mfg: Food | Other | Existing | end use | 44,306 | 16% | 0.85 | 15 | \$966 | 72% | 2.66 |
| FE-WPP | Bldg Improvements | Mfg: Food | Other | New | end use | 44,306 | 16% | 0.85 | 15 | \$966 | 72% | 2.66 |
| FE-WPP | Energy Project Management | Mfg: Food | Other | Existing | end use | 44,306 | 29% | 1.53 | 11 | \$1,582 | 63% | 2.18 |
| FE-WPP | Energy Project Management | Mfg: Food | Other | New | end use | 44,306 | 29% | 1.53 | 11 | \$1,582 | 63% | 2.18 |
| FE-WPP | Facility Energy Management | Mfg: Food | Other | Existing | end use | 44,306 | 1.8% | 0.10 | 2 | \$17 | 76% | 1.09 |
| FE-WPP | Facility Energy Management | Mfg: Food | Other | New | end use | 44,306 | 1.9% | 0.10 | 2 | \$17 | 76% | 1.09 |
| FE-WPP | Integrated Plant Energy Management | Mfg: Food | Other | Existing | end use | 44,306 | 50% | 2.64 | 11 | \$4,367 | 48% | 1.57 |
| FE-WPP | Integrated Plant Energy Management | Mfg: Food | Other | New | end use | 44,306 | 50% | 2.64 | 11 | \$4,367 | 48% | 1.57 |
| FE-WPP | Plant Energy Management | Mfg: Food | Other | Existing | end use | 44,306 | 12% | 0.63 | 10 | \$111 | 55% | 4.32 |
| FE-WPP | Plant Energy Management | Mfg: Food | Other | New | end use | 44,306 | 12% | 0.63 | 10 | \$111 | 55% | 4.32 |
| FE-WPP | Transformers | Mfg: Food | Other | Early | end use | 44,306 | 1.6% | 0.08 | 15 | \$142 | 34% | 2.01 |
| FE-WPP | Transformers | Mfg: Food | Other | New | end use | 44,306 | 1.6% | 0.08 | 15 | \$142 | 34% | 1.99 |
| FE-WPP | Transformers | Mfg: Food | Other | ROB | end use | 44,306 | 1.6% | 0.08 | 15 | \$142 | 34% | 2.00 |
| FE-WPP | Air Compressor Demand Reduction | Mfg: Food | Process Air Compressor | Existing | end use | 728 | 26% | 0.02 | 10 | \$11 | 52% | 3.10 |
| FE-WPP | Air Compressor Demand Reduction | Mfg: Food | Process Air Compressor | New | end use | 728 | 26% | 0.02 | 10 | \$11 | 52% | 3.10 |
| FE-WPP | Air Compressor Equipment | Mfg: Food | Process Air Compressor | Early | end use | 728 | 39% | 0.04 | 10 | \$13 | 73% | 3.40 |
| FE-WPP | Air Compressor Equipment | Mfg: Food | Process Air Compressor | New | end use | 728 | 39% | 0.04 | 10 | \$13 | 73% | 3.40 |
| FE-WPP | Air Compressor Equipment | Mfg: Food | Process Air Compressor | ROB | end use | 728 | 39% | 0.04 | 10 | \$13 | 73% | 3.40 |
| FE-WPP | Air Compressor Optimization | Mfg: Food | Process Air Compressor | Existing | end use | 728 | 39% | 0.04 | 10 | \$32 | 55% | 2.20 |
| FE-WPP | Air Compressor Optimization | Mfg: Food | Process Air Compressor | New | end use | 728 | 39% | 0.04 | 10 | \$32 | 55% | 2.20 |
| FE-WPP | Facility Energy Management | Mfg: Food | Process Air Compressor | Existing | end use | 728 | 1.9% | 0.00 | 2 | \$0.3 | 62% | 1.10 |
| FE-WPP | Facility Energy Management | Mfg: Food | Process Air Compressor | New | end use | 728 | 2.0% | 0.00 | 2 | \$0.3 | 62% | 1.10 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---------------------------------------|-----------|------------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | HE Compressor motors | Mfg: Food | Process Air Compressor | Early | end use | 728 | 1.1% | 0.00 | 15 | \$2.7 | 73% | 1.33 |
| FE-WPP | HE Compressor motors | Mfg: Food | Process Air Compressor | New | end use | 728 | 1.1% | 0.00 | 15 | \$2.7 | 73% | 1.33 |
| FE-WPP | HE Compressor motors | Mfg: Food | Process Air Compressor | ROB | end use | 728 | 1.1% | 0.00 | 15 | \$2.7 | 73% | 1.35 |
| FE-WPP | Improved Controls - Air Compressor | Mfg: Food | Process Air Compressor | Existing | end use | 728 | 41% | 0.04 | 10 | \$13 | 25% | 3.49 |
| FE-WPP | Improved Controls - Air Compressor | Mfg: Food | Process Air Compressor | New | end use | 728 | 41% | 0.04 | 10 | \$13 | 25% | 3.49 |
| FE-WPP | Low Pressure-drop Filters | Mfg: Food | Process Air Compressor | Existing | end use | 728 | 1.8% | 0.00 | 10 | \$8.3 | 61% | 0.58 |
| FE-WPP | Low Pressure-drop Filters | Mfg: Food | Process Air Compressor | New | end use | 728 | 1.9% | 0.00 | 10 | \$8.3 | 61% | 0.58 |
| FE-WPP | Outside Air Intake | Mfg: Food | Process Air Compressor | Existing | end use | 728 | 1.4% | 0.00 | 10 | \$4.8 | 48% | 0.76 |
| FE-WPP | Outside Air Intake | Mfg: Food | Process Air Compressor | New | end use | 728 | 1.4% | 0.00 | 10 | \$4.8 | 48% | 0.76 |
| FE-WPP | Receiver Capacity Addition | Mfg: Food | Process Air Compressor | Existing | end use | 728 | 6.0% | 0.01 | 10 | \$14 | 36% | 1.04 |
| FE-WPP | Receiver Capacity Addition | Mfg: Food | Process Air Compressor | New | end use | 728 | 5.9% | 0.01 | 10 | \$14 | 36% | 1.04 |
| FE-WPP | Refrigerated Cycling Dryers | Mfg: Food | Process Air Compressor | Early | end use | 728 | 1.7% | 0.00 | 10 | \$1.7 | 21% | 1.92 |
| FE-WPP | Refrigerated Cycling Dryers | Mfg: Food | Process Air Compressor | New | end use | 728 | 1.7% | 0.00 | 10 | \$1.7 | 21% | 1.92 |
| FE-WPP | Refrigerated Cycling Dryers | Mfg: Food | Process Air Compressor | ROB | end use | 728 | 1.7% | 0.00 | 10 | \$1.7 | 21% | 1.92 |
| FE-WPP | VFD Controlled Compressor | Mfg: Food | Process Air Compressor | Early | end use | 728 | 24% | 0.02 | 10 | \$72 | 28% | 0.82 |
| FE-WPP | VFD Controlled Compressor | Mfg: Food | Process Air Compressor | New | end use | 728 | 24% | 0.02 | 10 | \$72 | 28% | 0.82 |
| FE-WPP | VFD Controlled Compressor | Mfg: Food | Process Air Compressor | ROB | end use | 728 | 24% | 0.02 | 10 | \$72 | 28% | 0.82 |
| FE-WPP | Zero Loss Condensate Drain | Mfg: Food | Process Air Compressor | Early | end use | 728 | 1.8% | 0.00 | 10 | \$4.2 | 36% | 1.05 |
| FE-WPP | Zero Loss Condensate Drain | Mfg: Food | Process Air Compressor | New | end use | 728 | 1.9% | 0.00 | 10 | \$4.2 | 36% | 1.05 |
| FE-WPP | Zero Loss Condensate Drain | Mfg: Food | Process Air Compressor | ROB | end use | 728 | 1.9% | 0.00 | 10 | \$4.2 | 36% | 1.05 |
| FE-WPP | Cooling Tower Optimization | Mfg: Food | Process Cooling | Existing | building | 94,896 | 20% | 6.79 | 10 | \$582 | 15% | 4.90 |
| FE-WPP | Equipment: Chillers | Mfg: Food | Process Cooling | Early | end use | 242,422 | 18% | 9.04 | 15 | \$11,377 | 68% | 1.77 |
| FE-WPP | Equipment: Chillers | Mfg: Food | Process Cooling | New | end use | 242,422 | 18% | 9.04 | 15 | \$11,377 | 68% | 1.77 |
| FE-WPP | Equipment: Chillers | Mfg: Food | Process Cooling | ROB | end use | 242,422 | 18% | 9.04 | 15 | \$11,377 | 68% | 1.77 |
| FE-WPP | Facility Energy Management | Mfg: Food | Process Cooling | Existing | end use | 242,422 | 1.9% | 0.93 | 2 | \$93 | 86% | 1.17 |
| FE-WPP | Facility Energy Management | Mfg: Food | Process Cooling | New | end use | 242,422 | 1.9% | 0.93 | 2 | \$93 | 86% | 1.17 |
| FE-WPP | Food: Refrig Storage Tuneup | Mfg: Food | Process Cooling | Existing | end use | 242,422 | 14% | 7.26 | 3 | \$1,512 | 47% | 1.37 |
| FE-WPP | Food: Refrig Storage Tuneup | Mfg: Food | Process Cooling | New | end use | 242,422 | 14% | 7.26 | 3 | \$1,512 | 47% | 1.37 |
| FE-WPP | Fruit Storage Refer Retrofit | Mfg: Food | Process Cooling | Existing | end use | 242,422 | 38% | 19.32 | 10 | \$15,674 | 12% | 1.79 |
| FE-WPP | Fruit Storage Refer Retrofit | Mfg: Food | Process Cooling | New | end use | 242,422 | 38% | 19.32 | 10 | \$15,674 | 12% | 1.79 |
| FE-WPP | Fruit Storage Tuneup | Mfg: Food | Process Cooling | Existing | end use | 242,422 | 16% | 7.89 | 3 | \$1,644 | 12% | 1.37 |
| FE-WPP | Fruit Storage Tuneup | Mfg: Food | Process Cooling | New | end use | 242,422 | 16% | 7.89 | 3 | \$1,644 | 12% | 1.37 |
| FE-WPP | Improved Controls - Process Cooling | Mfg: Food | Process Cooling | Existing | end use | 242,422 | 6.0% | 3.03 | 10 | \$12,800 | 81% | 0.45 |
| FE-WPP | Improved Controls - Process Cooling | Mfg: Food | Process Cooling | New | end use | 242,422 | 6.0% | 3.03 | 10 | \$12,800 | 81% | 0.45 |
| FE-WPP | VFD on Cooling Tower Fan | Mfg: Food | Process Cooling | Early | motor | 94,896 | 21% | 5.98 | 15 | \$4,382 | 20% | 2.23 |
| FE-WPP | VFD on Cooling Tower Fan | Mfg: Food | Process Cooling | New | motor | 94,896 | 22% | 5.98 | 15 | \$4,465 | 20% | 2.22 |
| FE-WPP | VFD on Cooling Tower Fan | Mfg: Food | Process Cooling | ROB | motor | 94,896 | 22% | 5.98 | 15 | \$4,465 | 20% | 2.22 |
| FE-WPP | Improved Controls - Process Heating | Mfg: Food | Process Heating | Existing | end use | 64,409 | 17% | 1.51 | 10 | \$740 | 77% | 2.89 |
| FE-WPP | Improved Controls - Process Heating | Mfg: Food | Process Heating | New | end use | 64,409 | 17% | 1.51 | 10 | \$740 | 77% | 2.89 |
| FE-WPP | Process Heat O&M | Mfg: Food | Process Heating | Existing | end use | 64,409 | 16% | 1.43 | 2 | \$447 | 77% | 0.88 |
| FE-WPP | Process Heat O&M | Mfg: Food | Process Heating | New | end use | 64,409 | 16% | 1.43 | 2 | \$447 | 77% | 0.88 |
| FE-WPP | Facility Energy Management | Mfg: Food | Process Other | Existing | end use | 6,206 | 1.8% | 0.02 | 2 | \$2.4 | 73% | 1.09 |
| FE-WPP | Facility Energy Management | Mfg: Food | Process Other | New | end use | 6,206 | 1.9% | 0.02 | 2 | \$2.4 | 73% | 1.09 |
| FE-WPP | Adjustable speed drive on compressors | Mfg: Food | Process Refrigeration | Early | end use | 124,530 | 12% | 2.13 | 10 | \$2,303 | 81% | 1.78 |
| FE-WPP | Adjustable speed drive on compressors | Mfg: Food | Process Refrigeration | New | end use | 124,530 | 12% | 2.13 | 10 | \$2,303 | 81% | 1.78 |
| FE-WPP | Adjustable speed drive on compressors | Mfg: Food | Process Refrigeration | ROB | end use | 124,530 | 12% | 2.13 | 10 | \$2,303 | 81% | 1.77 |
| FE-WPP | Cold Storage Retrofit | Mfg: Food | Process Refrigeration | Existing | end use | 124,530 | 18% | 3.33 | 10 | \$3,883 | 73% | 1.67 |
| FE-WPP | Cold Storage Retrofit | Mfg: Food | Process Refrigeration | New | end use | 124,530 | 18% | 3.33 | 10 | \$3,883 | 73% | 1.67 |
| FE-WPP | Cold Storage Tuneup | Mfg: Food | Process Refrigeration | Existing | end use | 124,530 | 13% | 2.46 | 3 | \$950 | 73% | 1.16 |
| FE-WPP | Cold Storage Tuneup | Mfg: Food | Process Refrigeration | New | end use | 124,530 | 13% | 2.46 | 3 | \$950 | 73% | 1.16 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|--------------------------------------|-------------|-----------------------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Cooling Tower Optimization | Mfg: Food | Process Refrigeration | Existing | building | 48,747 | 20% | 3.49 | 10 | \$299 | 15% | 4.90 |
| FE-WPP | Food: Cooling and Storage | Mfg: Food | Process Refrigeration | Existing | end use | 124,530 | 15% | 2.74 | 10 | \$5,604 | 73% | 1.09 |
| FE-WPP | Food: Cooling and Storage | Mfg: Food | Process Refrigeration | New | end use | 124,530 | 15% | 2.74 | 10 | \$5,604 | 73% | 1.09 |
| FE-WPP | Optimization of operating parameters | Mfg: Food | Process Refrigeration | Existing | end use | 124,530 | 13% | 2.39 | 3 | \$1,005 | 73% | 1.11 |
| FE-WPP | Optimization of operating parameters | Mfg: Food | Process Refrigeration | New | end use | 124,530 | 13% | 2.39 | 3 | \$1,005 | 73% | 1.11 |
| FE-WPP | Synchronous Belts | Mfg: Food | Process Refrigeration | Early | end use | 124,530 | 1.2% | 0.21 | 10 | \$184 | 81% | 2.06 |
| FE-WPP | Synchronous Belts | Mfg: Food | Process Refrigeration | New | end use | 124,530 | 1.2% | 0.21 | 10 | \$184 | 81% | 2.06 |
| FE-WPP | Synchronous Belts | Mfg: Food | Process Refrigeration | ROB | end use | 124,530 | 1.2% | 0.21 | 10 | \$184 | 81% | 2.06 |
| FE-WPP | VFD on Cooling Tower Fan | Mfg: Food | Process Refrigeration | Early | motor | 48,747 | 21% | 3.07 | 15 | \$2,251 | 20% | 2.23 |
| FE-WPP | VFD on Cooling Tower Fan | Mfg: Food | Process Refrigeration | New | motor | 48,747 | 22% | 3.07 | 15 | \$2,294 | 20% | 2.22 |
| FE-WPP | VFD on Cooling Tower Fan | Mfg: Food | Process Refrigeration | ROB | motor | 48,747 | 22% | 3.07 | 15 | \$2,294 | 20% | 2.22 |
| FE-WPP | Facility Energy Management | Mfg: Food | Pumps | Existing | end use | 362,306 | 1.9% | 0.87 | 2 | \$140 | 65% | 1.13 |
| FE-WPP | Facility Energy Management | Mfg: Food | Pumps | New | end use | 362,306 | 1.9% | 0.87 | 2 | \$140 | 65% | 1.13 |
| FE-WPP | HE Motors | Mfg: Food | Pumps | Early | end use | 362,306 | 2.0% | 0.96 | 15 | \$2,157 | 69% | 1.53 |
| FE-WPP | HE Motors | Mfg: Food | Pumps | New | end use | 362,306 | 2.0% | 0.96 | 15 | \$2,157 | 69% | 1.53 |
| FE-WPP | HE Motors | Mfg: Food | Pumps | ROB | end use | 362,306 | 2.0% | 0.96 | 15 | \$2,157 | 69% | 1.53 |
| FE-WPP | Motor rewinds | Mfg: Food | Pumps | Existing | end use | 362,306 | 0.6% | 0.28 | 9 | \$515 | 11% | 1.22 |
| FE-WPP | Motor rewinds | Mfg: Food | Pumps | New | end use | 362,306 | 0.6% | 0.28 | 9 | \$515 | 11% | 1.23 |
| FE-WPP | Pump Equipment Upgrade | Mfg: Food | Pumps | Early | end use | 362,306 | 20% | 9.43 | 12 | \$9,058 | 77% | 2.34 |
| FE-WPP | Pump Equipment Upgrade | Mfg: Food | Pumps | New | end use | 362,306 | 20% | 9.43 | 12 | \$9,058 | 77% | 2.34 |
| FE-WPP | Pump Equipment Upgrade | Mfg: Food | Pumps | ROB | end use | 362,306 | 20% | 9.43 | 12 | \$9,058 | 77% | 2.34 |
| FE-WPP | Pump System Optimization | Mfg: Food | Pumps | Existing | end use | 362,306 | 8.7% | 4.10 | 12 | \$6,634 | 36% | 1.66 |
| FE-WPP | Pump System Optimization | Mfg: Food | Pumps | New | end use | 362,306 | 8.7% | 4.10 | 12 | \$6,634 | 36% | 1.66 |
| FE-WPP | Synchronous Belts | Mfg: Food | Pumps | Early | end use | 362,306 | 1.2% | 0.55 | 10 | \$534 | 57% | 2.03 |
| FE-WPP | Synchronous Belts | Mfg: Food | Pumps | New | end use | 362,306 | 1.2% | 0.55 | 10 | \$534 | 57% | 2.03 |
| FE-WPP | Synchronous Belts | Mfg: Food | Pumps | ROB | end use | 362,306 | 1.2% | 0.55 | 10 | \$534 | 57% | 2.03 |
| FE-WPP | Circulating Fans | Mfg: Metals | Fans | Early | end use | 1,441,365 | 5.0% | 8.58 | 10 | \$8,774 | 68% | 2.10 |
| FE-WPP | Circulating Fans | Mfg: Metals | Fans | New | end use | 1,441,365 | 5.0% | 8.58 | 10 | \$8,774 | 68% | 2.10 |
| FE-WPP | Circulating Fans | Mfg: Metals | Fans | ROB | end use | 1,441,365 | 5.0% | 8.58 | 10 | \$8,774 | 68% | 2.10 |
| FE-WPP | Facility Energy Management | Mfg: Metals | Fans | Existing | end use | 1,441,365 | 1.9% | 3.16 | 2 | \$555 | 77% | 1.11 |
| FE-WPP | Facility Energy Management | Mfg: Metals | Fans | New | end use | 1,441,365 | 1.9% | 3.16 | 2 | \$555 | 77% | 1.12 |
| FE-WPP | HE Motors | Mfg: Metals | Fans | Early | end use | 1,441,365 | 2.0% | 3.51 | 15 | \$8,581 | 77% | 1.55 |
| FE-WPP | HE Motors | Mfg: Metals | Fans | New | end use | 1,441,365 | 2.0% | 3.51 | 15 | \$8,581 | 77% | 1.55 |
| FE-WPP | HE Motors | Mfg: Metals | Fans | ROB | end use | 1,441,365 | 2.0% | 3.51 | 15 | \$8,581 | 77% | 1.55 |
| FE-WPP | Improved Controls - Fans | Mfg: Metals | Fans | Existing | end use | 1,441,365 | 7.1% | 12.19 | 10 | \$5,588 | 60% | 3.23 |
| FE-WPP | Improved Controls - Fans | Mfg: Metals | Fans | New | end use | 1,441,365 | 7.1% | 12.19 | 10 | \$5,588 | 60% | 3.23 |
| FE-WPP | Properly Sized Fans | Mfg: Metals | Fans | Early | end use | 1,441,365 | 13% | 22.58 | 10 | \$29,521 | 41% | 1.79 |
| FE-WPP | Properly Sized Fans | Mfg: Metals | Fans | New | end use | 1,441,365 | 13% | 22.58 | 10 | \$29,521 | 41% | 1.79 |
| FE-WPP | Properly Sized Fans | Mfg: Metals | Fans | ROB | end use | 1,441,365 | 13% | 22.58 | 10 | \$29,521 | 41% | 1.79 |
| FE-WPP | Synchronous Belts | Mfg: Metals | Fans | Early | end use | 1,441,365 | 1.2% | 2.00 | 10 | \$2,124 | 41% | 2.05 |
| FE-WPP | Synchronous Belts | Mfg: Metals | Fans | New | end use | 1,441,365 | 1.2% | 2.00 | 10 | \$2,124 | 41% | 2.05 |
| FE-WPP | Synchronous Belts | Mfg: Metals | Fans | ROB | end use | 1,441,365 | 1.2% | 2.00 | 10 | \$2,124 | 41% | 2.05 |
| FE-WPP | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Metals | HVAC | Early | unit (ton) | 231,199 | 9.2% | 5.50 | 15 | \$42,135 | 28% | 0.31 |
| FE-WPP | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Metals | HVAC | New | unit (ton) | 231,199 | 4.1% | 2.47 | 15 | \$10,209 | 28% | 0.56 |
| FE-WPP | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Metals | HVAC | ROB | unit (ton) | 231,199 | 4.1% | 2.47 | 15 | \$10,209 | 28% | 0.56 |
| FE-WPP | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Metals | HVAC | Early | unit (ton) | 231,199 | 12% | 7.44 | 15 | \$49,672 | 28% | 0.36 |
| FE-WPP | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Metals | HVAC | New | unit (ton) | 231,199 | 7.7% | 4.61 | 15 | \$21,501 | 28% | 0.50 |
| FE-WPP | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Metals | HVAC | ROB | unit (ton) | 231,199 | 7.7% | 4.61 | 15 | \$21,501 | 28% | 0.50 |
| FE-WPP | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Metals | HVAC | Early | unit (ton) | 231,199 | 15% | 9.14 | 15 | \$57,210 | 29% | 0.38 |
| FE-WPP | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Metals | HVAC | New | unit (ton) | 231,199 | 11% | 6.49 | 15 | \$32,794 | 29% | 0.47 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|-------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Metals | HVAC | ROB | unit (ton) | 231,199 | 11% | 6.49 | 15 | \$32,794 | 29% | 0.47 |
| FE-WPP | >760k min 10.2 EER Air Conditioner | Mfg: Metals | HVAC | Early | unit (ton) | 231,199 | 2.1% | 1.27 | 15 | \$73,375 | 35% | 0.04 |
| FE-WPP | >760k min 10.2 EER Air Conditioner | Mfg: Metals | HVAC | New | unit (ton) | 231,199 | 2.8% | 1.70 | 15 | \$6,632 | 35% | 0.59 |
| FE-WPP | >760k min 10.2 EER Air Conditioner | Mfg: Metals | HVAC | ROB | unit (ton) | 231,199 | 2.8% | 1.70 | 15 | \$6,632 | 35% | 0.59 |
| FE-WPP | 135-240k min 12 EER Air Conditioner | Mfg: Metals | HVAC | Early | unit (ton) | 231,199 | 10% | 6.27 | 15 | \$79,453 | 35% | 0.19 |
| FE-WPP | 135-240k min 12 EER Air Conditioner | Mfg: Metals | HVAC | New | unit (ton) | 231,199 | 5.8% | 3.46 | 15 | \$9,382 | 35% | 0.83 |
| FE-WPP | 135-240k min 12 EER Air Conditioner | Mfg: Metals | HVAC | ROB | unit (ton) | 231,199 | 5.8% | 3.46 | 15 | \$9,382 | 35% | 0.83 |
| FE-WPP | 240k-760k min 11 EER Air Conditioner | Mfg: Metals | HVAC | Early | unit (ton) | 231,199 | 5.2% | 3.13 | 15 | \$73,421 | 35% | 0.10 |
| FE-WPP | 240k-760k min 11 EER Air Conditioner | Mfg: Metals | HVAC | New | unit (ton) | 231,199 | 5.3% | 3.20 | 15 | \$7,866 | 35% | 0.91 |
| FE-WPP | 240k-760k min 11 EER Air Conditioner | Mfg: Metals | HVAC | ROB | unit (ton) | 231,199 | 5.3% | 3.20 | 15 | \$7,866 | 35% | 0.91 |
| FE-WPP | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Metals | HVAC | Early | unit (ton) | 231,199 | 9.7% | 5.82 | 15 | \$81,354 | 35% | 0.17 |
| FE-WPP | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Metals | HVAC | New | unit (ton) | 231,199 | 3.8% | 2.31 | 15 | \$11,607 | 35% | 0.47 |
| FE-WPP | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Metals | HVAC | ROB | unit (ton) | 231,199 | 3.8% | 2.31 | 15 | \$11,607 | 35% | 0.47 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Mfg: Metals | HVAC | Existing | building | 231,199 | 5.9% | 3.43 | 15 | \$700,497 | 71% | 0.01 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Mfg: Metals | HVAC | New | building | 231,199 | 3.7% | 2.15 | 15 | \$665,842 | 94% | 0.01 |
| FE-WPP | Chiller Tuneup/Diagnostics | Mfg: Metals | HVAC | Existing | building | 231,199 | 8.0% | 6.78 | 10 | \$590,355 | 59% | 0.02 |
| FE-WPP | Chiller Tuneup/Diagnostics | Mfg: Metals | HVAC | New | building | 231,199 | 8.0% | 6.79 | 10 | \$590,355 | 59% | 0.02 |
| FE-WPP | Cooling Tower Optimization | Mfg: Metals | HVAC | Existing | building | 231,199 | 20% | 16.55 | 10 | \$1,418 | 69% | 5.07 |
| FE-WPP | Duct Insulation, Add R8 | Mfg: Metals | HVAC | Existing | building | 231,199 | 1.5% | 0.74 | 15 | \$1,837 | 18% | 1.05 |
| FE-WPP | Duct Insulation, Add R8 | Mfg: Metals | HVAC | New | building | 231,199 | 1.5% | 0.74 | 15 | \$1,837 | 9% | 1.05 |
| FE-WPP | Ductless Heat Pump | Mfg: Metals | HVAC | Early | heat pump | 231,199 | 0.8% | 0.43 | 15 | \$18,279 | 83% | 0.06 |
| FE-WPP | Ductless Heat Pump | Mfg: Metals | HVAC | New | heat pump | 231,199 | 0.4% | 0.23 | 15 | \$5,308 | 83% | 0.12 |
| FE-WPP | Ductless Heat Pump | Mfg: Metals | HVAC | ROB | heat pump | 231,199 | 0.4% | 0.23 | 15 | \$5,308 | 83% | 0.12 |
| FE-WPP | DX Coil Cleaning | Mfg: Metals | HVAC | Existing | building | 231,199 | 13% | 10.61 | 1 | \$2,216 | 73% | 0.45 |
| FE-WPP | DX Coil Cleaning | Mfg: Metals | HVAC | New | building | 231,199 | 13% | 10.60 | 1 | \$2,216 | 73% | 0.45 |
| FE-WPP | Efficient Unit Heating System | Mfg: Metals | HVAC | Early | heater | 231,199 | 6.9% | 0.13 | 15 | \$12,481 | 83% | 0.59 |
| FE-WPP | Efficient Unit Heating System | Mfg: Metals | HVAC | New | heater | 231,199 | 4.0% | 0.08 | 15 | \$8,514 | 83% | 0.50 |
| FE-WPP | Efficient Unit Heating System | Mfg: Metals | HVAC | ROB | heater | 231,199 | 4.0% | 0.08 | 15 | \$8,514 | 83% | 0.50 |
| FE-WPP | Ground Source Heat Pump (Closed Loop) | Mfg: Metals | HVAC | Early | heat pump | 231,199 | 1.3% | 0.67 | 15 | \$37,954 | 19% | 0.05 |
| FE-WPP | Ground Source Heat Pump (Closed Loop) | Mfg: Metals | HVAC | New | heat pump | 231,199 | 1.0% | 0.53 | 15 | \$14,986 | 19% | 0.10 |
| FE-WPP | Ground Source Heat Pump (Closed Loop) | Mfg: Metals | HVAC | ROB | heat pump | 231,199 | 1.0% | 0.53 | 15 | \$14,986 | 19% | 0.10 |
| FE-WPP | Ground Source Heat Pump (Open Loop) | Mfg: Metals | HVAC | Early | heat pump | 231,199 | 1.3% | 0.67 | 15 | \$24,308 | 19% | 0.08 |
| FE-WPP | Ground Source Heat Pump (Open Loop) | Mfg: Metals | HVAC | New | heat pump | 231,199 | 1.0% | 0.53 | 15 | \$515 | 19% | 2.16 |
| FE-WPP | Ground Source Heat Pump (Open Loop) | Mfg: Metals | HVAC | ROB | heat pump | 231,199 | 1.0% | 0.53 | 15 | \$515 | 19% | 2.16 |
| FE-WPP | HE Air Cooled Chiller, 100 Tons | Mfg: Metals | HVAC | Early | unit (ton) | 231,199 | 1.5% | 0.76 | 15 | \$268,946 | 89% | 0.01 |
| FE-WPP | HE Air Cooled Chiller, 100 Tons | Mfg: Metals | HVAC | New | unit (ton) | 231,199 | 0.4% | 0.21 | 15 | \$39,180 | 89% | 0.02 |
| FE-WPP | HE Air Cooled Chiller, 100 Tons | Mfg: Metals | HVAC | ROB | unit (ton) | 231,199 | 0.4% | 0.21 | 15 | \$39,180 | 89% | 0.02 |
| FE-WPP | HE Air Cooled Chiller, 150 Tons | Mfg: Metals | HVAC | Early | unit (ton) | 231,199 | 1.4% | 0.75 | 15 | \$232,309 | 89% | 0.01 |
| FE-WPP | HE Air Cooled Chiller, 150 Tons | Mfg: Metals | HVAC | New | unit (ton) | 231,199 | 0.3% | 0.16 | 15 | \$19,241 | 89% | 0.02 |
| FE-WPP | HE Air Cooled Chiller, 150 Tons | Mfg: Metals | HVAC | ROB | unit (ton) | 231,199 | 0.3% | 0.16 | 15 | \$19,241 | 89% | 0.02 |
| FE-WPP | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Metals | HVAC | Early | heat pump | 231,199 | 1.4% | 0.71 | 12 | \$9,908 | 81% | 0.16 |
| FE-WPP | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Metals | HVAC | Early | heat pump | 231,199 | 1.1% | 0.58 | 12 | \$7,238 | 81% | 0.18 |
| FE-WPP | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Metals | HVAC | New | heat pump | 231,199 | 1.0% | 0.53 | 12 | \$4,423 | 81% | 0.26 |
| FE-WPP | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Metals | HVAC | New | heat pump | 231,199 | 0.8% | 0.39 | 12 | \$1,546 | 81% | 0.54 |
| FE-WPP | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Metals | HVAC | ROB | heat pump | 231,199 | 1.0% | 0.53 | 12 | \$4,423 | 81% | 0.26 |
| FE-WPP | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Metals | HVAC | ROB | heat pump | 231,199 | 0.8% | 0.39 | 12 | \$1,546 | 81% | 0.54 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Metals | HVAC | Early | unit (ton) | 231,199 | 1.6% | 0.83 | 15 | \$21,339 | 89% | 0.11 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Metals | HVAC | New | unit (ton) | 231,199 | 0.9% | 0.48 | 15 | \$7,097 | 89% | 0.18 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Metals | HVAC | ROB | unit (ton) | 231,199 | 0.9% | 0.48 | 15 | \$7,097 | 89% | 0.18 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Metals | HVAC | Early | unit (ton) | 231,199 | 1.4% | 0.73 | 15 | \$20,841 | 89% | 0.10 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|-------------|----------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Metals | HVAC | New | unit (ton) | 231,199 | 1.0% | 0.51 | 15 | \$4,070 | 89% | 0.34 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Metals | HVAC | ROB | unit (ton) | 231,199 | 1.4% | 0.73 | 15 | \$3,739 | 89% | 0.51 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Metals | HVAC | Early | unit (ton) | 231,199 | 1.4% | 0.72 | 15 | \$24,667 | 89% | 0.08 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Metals | HVAC | New | unit (ton) | 231,199 | 0.9% | 0.46 | 15 | \$10,385 | 89% | 0.12 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Metals | HVAC | ROB | unit (ton) | 231,199 | 1.4% | 0.72 | 15 | \$9,399 | 89% | 0.21 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Metals | HVAC | Early | unit (ton) | 231,199 | 1.4% | 0.72 | 15 | \$23,760 | 89% | 0.08 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Metals | HVAC | New | unit (ton) | 231,199 | 0.9% | 0.46 | 15 | \$9,027 | 89% | 0.14 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Metals | HVAC | ROB | unit (ton) | 231,199 | 1.4% | 0.72 | 15 | \$8,170 | 89% | 0.24 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Metals | HVAC | Early | unit (ton) | 231,199 | 1.8% | 0.94 | 15 | \$25,602 | 89% | 0.10 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Metals | HVAC | New | unit (ton) | 231,199 | 0.5% | 0.29 | 15 | \$15,853 | 89% | 0.05 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Metals | HVAC | ROB | unit (ton) | 231,199 | 1.8% | 0.94 | 15 | \$12,310 | 89% | 0.21 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Metals | HVAC | Early | unit (ton) | 231,199 | 2.1% | 1.11 | 15 | \$23,549 | 89% | 0.13 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Metals | HVAC | New | unit (ton) | 231,199 | 0.8% | 0.40 | 15 | \$9,449 | 89% | 0.12 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Metals | HVAC | ROB | unit (ton) | 231,199 | 0.8% | 0.40 | 15 | \$9,449 | 89% | 0.12 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Metals | HVAC | Early | unit (ton) | 231,199 | 2.4% | 1.25 | 15 | \$19,958 | 89% | 0.17 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Metals | HVAC | New | unit (ton) | 231,199 | 0.9% | 0.47 | 15 | \$5,022 | 89% | 0.25 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Metals | HVAC | ROB | unit (ton) | 231,199 | 2.4% | 1.25 | 15 | \$3,581 | 89% | 0.87 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Metals | HVAC | Early | unit (ton) | 231,199 | 1.8% | 0.95 | 15 | \$19,758 | 89% | 0.13 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Metals | HVAC | New | unit (ton) | 231,199 | 0.7% | 0.36 | 15 | \$5,533 | 89% | 0.17 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Metals | HVAC | ROB | unit (ton) | 231,199 | 1.8% | 0.95 | 15 | \$4,383 | 89% | 0.56 |
| FE-WPP | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Metals | HVAC | Existing | building | 231,199 | 2.9% | 1.36 | 5 | \$2,453 | 55% | 0.58 |
| FE-WPP | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Metals | HVAC | New | building | 231,199 | 0.6% | 0.54 | 5 | \$1,472 | 51% | 0.28 |
| FE-WPP | Improved Controls - HVAC | Mfg: Metals | HVAC | Existing | end use | 839,618 | 21% | 25.18 | 10 | \$8,827 | 76% | 3.46 |
| FE-WPP | Improved Controls - HVAC | Mfg: Metals | HVAC | New | end use | 839,618 | 21% | 25.18 | 10 | \$8,827 | 76% | 3.46 |
| FE-WPP | Outside Air Economizer | Mfg: Metals | HVAC | Existing | building | 231,199 | 1.1% | 0.65 | 10 | \$849,469 | 82% | 0.00 |
| FE-WPP | Outside Air Economizer | Mfg: Metals | HVAC | New | building | 231,199 | 1.1% | 0.65 | 10 | \$849,469 | 82% | 0.00 |
| FE-WPP | Recommissioning | Mfg: Metals | HVAC | Existing | end use | 839,618 | 5.0% | 6.03 | 10 | \$1,151 | 88% | 4.27 |
| FE-WPP | Recommissioning | Mfg: Metals | HVAC | New | end use | 839,618 | 5.0% | 6.03 | 10 | \$1,151 | 88% | 4.27 |
| FE-WPP | Room AC (with louvered sides) | Mfg: Metals | HVAC | Early | unit (ton) | 231,199 | 7.7% | 4.02 | 9 | \$18,129 | 78% | 0.39 |
| FE-WPP | Room AC (with louvered sides) | Mfg: Metals | HVAC | New | unit (ton) | 231,199 | 2.6% | 1.34 | 9 | \$993 | 78% | 1.77 |
| FE-WPP | Room AC (with louvered sides) | Mfg: Metals | HVAC | ROB | unit (ton) | 231,199 | 2.6% | 1.34 | 9 | \$993 | 78% | 1.77 |
| FE-WPP | Variable Refrigerant Flow Heat Pump | Mfg: Metals | HVAC | New | measure | 231,199 | 0.1% | 0.06 | 13 | \$1,702 | 43% | 0.09 |
| FE-WPP | Variable Refrigerant Flow Heat Pump | Mfg: Metals | HVAC | ROB | measure | 231,199 | 0.1% | 0.06 | 13 | \$1,702 | 43% | 0.09 |
| FE-WPP | VFD on Cooling Tower Fan | Mfg: Metals | HVAC | Early | motor | 231,199 | 21% | 14.58 | 15 | \$10,676 | 15% | 2.32 |
| FE-WPP | VFD on Cooling Tower Fan | Mfg: Metals | HVAC | New | motor | 231,199 | 22% | 14.58 | 15 | \$10,879 | 15% | 2.31 |
| FE-WPP | VFD on Cooling Tower Fan | Mfg: Metals | HVAC | ROB | motor | 231,199 | 22% | 14.58 | 15 | \$10,879 | 15% | 2.31 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Mfg: Metals | HVAC | Existing | building | 231,199 | 19% | 11.05 | 15 | \$164,467 | 26% | 0.17 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Mfg: Metals | HVAC | New | building | 231,199 | 0.6% | 0.35 | 15 | \$126,154 | 94% | 0.01 |
| FE-WPP | Water Source Heat Pump (4 ton) | Mfg: Metals | HVAC | Early | heat pump | 231,199 | 1.5% | 0.80 | 15 | \$39,303 | 28% | 0.06 |
| FE-WPP | Water Source Heat Pump (4 ton) | Mfg: Metals | HVAC | New | heat pump | 231,199 | 1.1% | 0.59 | 15 | \$19,155 | 28% | 0.08 |
| FE-WPP | Water Source Heat Pump (4 ton) | Mfg: Metals | HVAC | ROB | heat pump | 231,199 | 1.1% | 0.59 | 15 | \$19,155 | 28% | 0.08 |
| FE-WPP | Efficient Metal Halide (High Bay) | Mfg: Metals | Lighting | Early | end use | 229,119 | 42% | 0.00 | 9 | \$35,803 | 53% | 0.73 |
| FE-WPP | Efficient Metal Halide (High Bay) | Mfg: Metals | Lighting | New | end use | 229,119 | 41% | 0.00 | 13 | \$956,300 | 61% | 0.04 |
| FE-WPP | Efficient Metal Halide (High Bay) | Mfg: Metals | Lighting | ROB | end use | 229,119 | 41% | 0.00 | 13 | \$730,857 | 61% | 0.06 |
| FE-WPP | Induction (High Bay) | Mfg: Metals | Lighting | Early | end use | 229,119 | 94% | 0.00 | 13 | \$106,528 | 95% | 0.77 |
| FE-WPP | Induction (High Bay) | Mfg: Metals | Lighting | New | end use | 229,119 | 94% | 0.00 | 13 | \$99,737 | 95% | 0.81 |
| FE-WPP | Induction (High Bay) | Mfg: Metals | Lighting | ROB | end use | 229,119 | 94% | 0.00 | 13 | \$75,803 | 95% | 1.02 |
| FE-WPP | LED (High Bay) | Mfg: Metals | Lighting | Early | end use | 229,119 | 69% | 0.00 | 14 | \$125,399 | 95% | 0.53 |
| FE-WPP | LED (High Bay) | Mfg: Metals | Lighting | New | end use | 229,119 | 55% | 0.00 | 14 | \$139,190 | 95% | 0.39 |
| FE-WPP | LED (High Bay) | Mfg: Metals | Lighting | ROB | end use | 229,119 | 59% | 0.00 | 14 | \$91,710 | 95% | 0.61 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---------------------------------------|-------------|----------|----------|---------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Lighting Controls | Mfg: Metals | Lighting | Existing | end use | 229,119 | 20% | 0.00 | 6 | \$858,941 | 16% | 0.01 |
| FE-WPP | Lighting Controls | Mfg: Metals | Lighting | New | end use | 229,119 | 12% | 0.00 | 10 | \$1,142,672 | 11% | 0.01 |
| FE-WPP | Linear Fluorescent (High Bay) | Mfg: Metals | Lighting | Early | end use | 229,119 | 17% | 0.00 | 14 | \$26,216 | 98% | 0.61 |
| FE-WPP | Linear Fluorescent (High Bay) | Mfg: Metals | Lighting | New | end use | 229,119 | 13% | 0.00 | 14 | \$8,314 | 91% | 1.29 |
| FE-WPP | Linear Fluorescent (High Bay) | Mfg: Metals | Lighting | ROB | end use | 229,119 | 13% | 0.00 | 14 | \$5,323 | 91% | 1.87 |
| FE-WPP | Metal Halide (High Bay) | Mfg: Metals | Lighting | Early | end use | 229,119 | 62% | 0.00 | 13 | \$157,505 | 38% | 0.37 |
| FE-WPP | Metal Halide (High Bay) | Mfg: Metals | Lighting | New | end use | 229,119 | 73% | 0.00 | 13 | \$37,657 | 38% | 1.46 |
| FE-WPP | Metal Halide (High Bay) | Mfg: Metals | Lighting | ROB | end use | 229,119 | 73% | 0.00 | 13 | \$28,620 | 38% | 1.78 |
| FE-WPP | Screw Base CFL | Mfg: Metals | Lighting | Early | end use | 229,119 | 80% | 0.00 | 7 | \$62,247 | 17% | 0.64 |
| FE-WPP | Screw Base CFL | Mfg: Metals | Lighting | New | end use | 229,119 | 73% | 0.00 | 9 | \$50,871 | 18% | 0.86 |
| FE-WPP | Screw Base CFL | Mfg: Metals | Lighting | ROB | end use | 229,119 | 73% | 0.00 | 9 | \$42,579 | 17% | 0.99 |
| FE-WPP | Screw Base LED | Mfg: Metals | Lighting | Early | end use | 229,119 | 76% | 0.00 | 9 | \$38,201 | 21% | 1.15 |
| FE-WPP | Screw Base LED | Mfg: Metals | Lighting | New | end use | 229,119 | 77% | 0.00 | 9 | \$21,281 | 20% | 1.75 |
| FE-WPP | Screw Base LED | Mfg: Metals | Lighting | ROB | end use | 229,119 | 77% | 0.00 | 9 | \$16,894 | 21% | 2.01 |
| FE-WPP | T8 High Performance Linear Florescent | Mfg: Metals | Lighting | Early | end use | 229,119 | 36% | 0.00 | 14 | \$21,925 | 71% | 1.37 |
| FE-WPP | T8 High Performance Linear Florescent | Mfg: Metals | Lighting | New | end use | 229,119 | 26% | 0.00 | 14 | \$7,844 | 76% | 2.31 |
| FE-WPP | T8 High Performance Linear Florescent | Mfg: Metals | Lighting | ROB | end use | 229,119 | 26% | 0.00 | 14 | \$5,962 | 76% | 2.73 |
| FE-WPP | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Metals | Motors | Early | end use | 455,061 | 0.9% | 0.59 | 15 | \$6,951 | 81% | 0.32 |
| FE-WPP | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Metals | Motors | New | end use | 455,061 | 0.9% | 0.59 | 15 | \$6,951 | 81% | 0.32 |
| FE-WPP | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Metals | Motors | ROB | end use | 455,061 | 0.9% | 0.59 | 15 | \$6,951 | 81% | 0.32 |
| FE-WPP | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Metals | Motors | Early | end use | 455,061 | 0.8% | 0.48 | 15 | \$4,222 | 73% | 0.43 |
| FE-WPP | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Metals | Motors | New | end use | 455,061 | 0.8% | 0.48 | 15 | \$4,222 | 73% | 0.43 |
| FE-WPP | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Metals | Motors | ROB | end use | 455,061 | 0.8% | 0.48 | 15 | \$4,222 | 73% | 0.43 |
| FE-WPP | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Metals | Motors | Early | end use | 455,061 | 0.5% | 0.29 | 15 | \$1,618 | 81% | 0.66 |
| FE-WPP | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Metals | Motors | New | end use | 455,061 | 0.5% | 0.29 | 15 | \$1,618 | 81% | 0.66 |
| FE-WPP | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Metals | Motors | ROB | end use | 455,061 | 0.5% | 0.29 | 15 | \$1,618 | 81% | 0.66 |
| FE-WPP | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Metals | Motors | Early | end use | 455,061 | 0.4% | 0.25 | 15 | \$534 | 73% | 1.53 |
| FE-WPP | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Metals | Motors | New | end use | 455,061 | 0.4% | 0.25 | 15 | \$534 | 73% | 1.56 |
| FE-WPP | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Metals | Motors | ROB | end use | 455,061 | 0.4% | 0.25 | 15 | \$534 | 73% | 1.56 |
| FE-WPP | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Metals | Motors | Early | end use | 455,061 | 0.9% | 0.59 | 15 | \$800 | 47% | 2.14 |
| FE-WPP | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Metals | Motors | New | end use | 455,061 | 0.9% | 0.59 | 15 | \$800 | 47% | 2.14 |
| FE-WPP | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Metals | Motors | ROB | end use | 455,061 | 0.9% | 0.59 | 15 | \$800 | 47% | 2.15 |
| FE-WPP | Facility Energy Management | Mfg: Metals | Motors | Existing | end use | 455,061 | 1.9% | 1.20 | 2 | \$175 | 77% | 1.11 |
| FE-WPP | Facility Energy Management | Mfg: Metals | Motors | New | end use | 455,061 | 1.9% | 1.20 | 2 | \$175 | 77% | 1.12 |
| FE-WPP | HE Motors | Mfg: Metals | Motors | Early | end use | 455,061 | 2.0% | 1.33 | 15 | \$2,709 | 38% | 1.55 |
| FE-WPP | HE Motors | Mfg: Metals | Motors | New | end use | 455,061 | 2.0% | 1.33 | 15 | \$2,709 | 38% | 1.55 |
| FE-WPP | HE Motors | Mfg: Metals | Motors | ROB | end use | 455,061 | 2.0% | 1.33 | 15 | \$2,709 | 38% | 1.55 |
| FE-WPP | High-Efficiency Ventilation System | Mfg: Metals | Motors | Early | end use | 455,061 | 5.7% | 3.68 | 10 | \$28,438 | 73% | 0.34 |
| FE-WPP | High-Efficiency Ventilation System | Mfg: Metals | Motors | New | end use | 455,061 | 5.7% | 3.68 | 10 | \$28,438 | 73% | 0.34 |
| FE-WPP | High-Efficiency Ventilation System | Mfg: Metals | Motors | ROB | end use | 455,061 | 5.7% | 3.68 | 10 | \$28,438 | 73% | 0.35 |
| FE-WPP | Improved Controls - Motors | Mfg: Metals | Motors | Existing | end use | 455,061 | 4.0% | 2.57 | 10 | \$1,978 | 73% | 2.24 |
| FE-WPP | Improved Controls - Motors | Mfg: Metals | Motors | New | end use | 455,061 | 4.0% | 2.57 | 10 | \$1,978 | 73% | 2.24 |
| FE-WPP | Motor Management Plan | Mfg: Metals | Motors | Existing | end use | 455,061 | 2.9% | 1.88 | 10 | \$928 | 73% | 2.87 |
| FE-WPP | Motor Management Plan | Mfg: Metals | Motors | New | end use | 455,061 | 2.9% | 1.88 | 10 | \$928 | 73% | 2.87 |
| FE-WPP | Motors Other | Mfg: Metals | Motors | Existing | end use | 455,061 | 1.1% | 0.71 | 15 | \$91 | 83% | 6.32 |
| FE-WPP | Motors Other | Mfg: Metals | Motors | New | end use | 455,061 | 1.1% | 0.71 | 15 | \$91 | 83% | 6.32 |
| FE-WPP | Motors: Rewind 101-200 HP | Mfg: Metals | Motors | Existing | end use | 455,061 | 0.6% | 0.36 | 10 | \$575 | 27% | 1.36 |
| FE-WPP | Motors: Rewind 101-200 HP | Mfg: Metals | Motors | New | end use | 455,061 | 0.6% | 0.36 | 10 | \$575 | 27% | 1.38 |
| FE-WPP | Motors: Rewind 201-500 HP | Mfg: Metals | Motors | Existing | end use | 455,061 | 0.5% | 0.36 | 8 | \$361 | 27% | 1.59 |
| FE-WPP | Motors: Rewind 201-500 HP | Mfg: Metals | Motors | New | end use | 455,061 | 0.6% | 0.36 | 8 | \$361 | 27% | 1.61 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|--|-------------|------------------------|----------|---------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Motors: Rewind 20-50 HP | Mfg: Metals | Motors | Existing | end use | 455,061 | 1.0% | 0.67 | 11 | \$1,689 | 42% | 1.02 |
| FE-WPP | Motors: Rewind 20-50 HP | Mfg: Metals | Motors | New | end use | 455,061 | 1.0% | 0.67 | 11 | \$1,689 | 42% | 1.03 |
| FE-WPP | Motors: Rewind 500+ HP | Mfg: Metals | Motors | Existing | end use | 455,061 | 0.6% | 0.36 | 8 | \$258 | 11% | 1.99 |
| FE-WPP | Motors: Rewind 500+ HP | Mfg: Metals | Motors | New | end use | 455,061 | 0.6% | 0.36 | 8 | \$258 | 11% | 2.00 |
| FE-WPP | Motors: Rewind 51-100 HP | Mfg: Metals | Motors | Existing | end use | 455,061 | 0.6% | 0.39 | 9 | \$834 | 42% | 1.00 |
| FE-WPP | Motors: Rewind 51-100 HP | Mfg: Metals | Motors | New | end use | 455,061 | 0.6% | 0.39 | 9 | \$834 | 42% | 1.01 |
| FE-WPP | Switch from Belt drive to Direct Drive | Mfg: Metals | Motors | Early | end use | 455,061 | 7.5% | 4.88 | 12 | \$7,301 | 30% | 1.63 |
| FE-WPP | Switch from Belt drive to Direct Drive | Mfg: Metals | Motors | New | end use | 455,061 | 7.5% | 4.88 | 12 | \$7,301 | 30% | 1.63 |
| FE-WPP | Switch from Belt drive to Direct Drive | Mfg: Metals | Motors | ROB | end use | 455,061 | 7.5% | 4.88 | 12 | \$7,301 | 30% | 1.63 |
| FE-WPP | Synchronous Belts | Mfg: Metals | Motors | Early | end use | 455,061 | 1.2% | 0.76 | 10 | \$671 | 30% | 2.05 |
| FE-WPP | Synchronous Belts | Mfg: Metals | Motors | New | end use | 455,061 | 1.2% | 0.76 | 10 | \$671 | 30% | 2.05 |
| FE-WPP | Synchronous Belts | Mfg: Metals | Motors | ROB | end use | 455,061 | 1.2% | 0.76 | 10 | \$671 | 30% | 2.05 |
| FE-WPP | Bldg Improvements | Mfg: Metals | Other | Existing | end use | 293,466 | 16% | 5.65 | 15 | \$6,399 | 72% | 2.66 |
| FE-WPP | Bldg Improvements | Mfg: Metals | Other | New | end use | 293,466 | 16% | 5.65 | 15 | \$6,399 | 72% | 2.66 |
| FE-WPP | Energy Project Management | Mfg: Metals | Other | Existing | end use | 293,466 | 29% | 10.13 | 11 | \$10,475 | 63% | 2.18 |
| FE-WPP | Energy Project Management | Mfg: Metals | Other | New | end use | 293,466 | 29% | 10.13 | 11 | \$10,475 | 63% | 2.18 |
| FE-WPP | Facility Energy Management | Mfg: Metals | Other | Existing | end use | 293,466 | 1.9% | 0.64 | 2 | \$113 | 76% | 1.09 |
| FE-WPP | Facility Energy Management | Mfg: Metals | Other | New | end use | 293,466 | 1.9% | 0.64 | 2 | \$113 | 76% | 1.09 |
| FE-WPP | Integrated Plant Energy Management | Mfg: Metals | Other | Existing | end use | 293,466 | 50% | 17.47 | 11 | \$28,926 | 48% | 1.57 |
| FE-WPP | Integrated Plant Energy Management | Mfg: Metals | Other | New | end use | 293,466 | 50% | 17.47 | 11 | \$28,926 | 48% | 1.57 |
| FE-WPP | Plant Energy Management | Mfg: Metals | Other | Existing | end use | 293,466 | 12% | 4.19 | 10 | \$737 | 55% | 4.32 |
| FE-WPP | Plant Energy Management | Mfg: Metals | Other | New | end use | 293,466 | 12% | 4.19 | 10 | \$737 | 55% | 4.32 |
| FE-WPP | Transformers | Mfg: Metals | Other | Early | end use | 293,466 | 1.6% | 0.56 | 15 | \$938 | 34% | 2.01 |
| FE-WPP | Transformers | Mfg: Metals | Other | New | end use | 293,466 | 1.6% | 0.56 | 15 | \$938 | 34% | 2.00 |
| FE-WPP | Transformers | Mfg: Metals | Other | ROB | end use | 293,466 | 1.6% | 0.56 | 15 | \$938 | 34% | 2.00 |
| FE-WPP | Air Compressor Demand Reduction | Mfg: Metals | Process Air Compressor | Existing | end use | 42,556 | 26% | 1.42 | 10 | \$638 | 40% | 3.10 |
| FE-WPP | Air Compressor Demand Reduction | Mfg: Metals | Process Air Compressor | New | end use | 42,556 | 26% | 1.42 | 10 | \$638 | 40% | 3.10 |
| FE-WPP | Air Compressor Equipment | Mfg: Metals | Process Air Compressor | Early | end use | 42,556 | 39% | 2.15 | 10 | \$771 | 56% | 3.40 |
| FE-WPP | Air Compressor Equipment | Mfg: Metals | Process Air Compressor | New | end use | 42,556 | 39% | 2.15 | 10 | \$771 | 56% | 3.40 |
| FE-WPP | Air Compressor Equipment | Mfg: Metals | Process Air Compressor | ROB | end use | 42,556 | 39% | 2.15 | 10 | \$771 | 56% | 3.40 |
| FE-WPP | Air Compressor Optimization | Mfg: Metals | Process Air Compressor | Existing | end use | 42,556 | 39% | 2.18 | 10 | \$1,855 | 42% | 2.20 |
| FE-WPP | Air Compressor Optimization | Mfg: Metals | Process Air Compressor | New | end use | 42,556 | 39% | 2.18 | 10 | \$1,855 | 42% | 2.20 |
| FE-WPP | Facility Energy Management | Mfg: Metals | Process Air Compressor | Existing | end use | 42,556 | 1.9% | 0.10 | 2 | \$16 | 50% | 1.10 |
| FE-WPP | Facility Energy Management | Mfg: Metals | Process Air Compressor | New | end use | 42,556 | 1.9% | 0.10 | 2 | \$16 | 50% | 1.10 |
| FE-WPP | HE Compressor motors | Mfg: Metals | Process Air Compressor | Early | end use | 42,556 | 1.1% | 0.06 | 15 | \$160 | 56% | 1.35 |
| FE-WPP | HE Compressor motors | Mfg: Metals | Process Air Compressor | New | end use | 42,556 | 1.1% | 0.06 | 15 | \$160 | 56% | 1.34 |
| FE-WPP | HE Compressor motors | Mfg: Metals | Process Air Compressor | ROB | end use | 42,556 | 1.1% | 0.06 | 15 | \$160 | 56% | 1.34 |
| FE-WPP | Improved Controls - Air Compressor | Mfg: Metals | Process Air Compressor | Existing | end use | 42,556 | 41% | 2.25 | 10 | \$760 | 19% | 3.49 |
| FE-WPP | Improved Controls - Air Compressor | Mfg: Metals | Process Air Compressor | New | end use | 42,556 | 41% | 2.25 | 10 | \$760 | 19% | 3.49 |
| FE-WPP | Low Pressure-drop Filters | Mfg: Metals | Process Air Compressor | Existing | end use | 42,556 | 1.8% | 0.10 | 10 | \$483 | 46% | 0.58 |
| FE-WPP | Low Pressure-drop Filters | Mfg: Metals | Process Air Compressor | New | end use | 42,556 | 1.8% | 0.10 | 10 | \$483 | 46% | 0.58 |
| FE-WPP | Outside Air Intake | Mfg: Metals | Process Air Compressor | Existing | end use | 42,556 | 1.4% | 0.08 | 10 | \$280 | 37% | 0.76 |
| FE-WPP | Outside Air Intake | Mfg: Metals | Process Air Compressor | New | end use | 42,556 | 1.4% | 0.08 | 10 | \$280 | 37% | 0.76 |
| FE-WPP | Receiver Capacity Addition | Mfg: Metals | Process Air Compressor | Existing | end use | 42,556 | 5.9% | 0.33 | 10 | \$792 | 28% | 1.04 |
| FE-WPP | Receiver Capacity Addition | Mfg: Metals | Process Air Compressor | New | end use | 42,556 | 6.0% | 0.33 | 10 | \$792 | 28% | 1.04 |
| FE-WPP | Refrigerated Cycling Dryers | Mfg: Metals | Process Air Compressor | Early | end use | 42,556 | 1.7% | 0.09 | 10 | \$98 | 16% | 1.92 |
| FE-WPP | Refrigerated Cycling Dryers | Mfg: Metals | Process Air Compressor | New | end use | 42,556 | 1.7% | 0.09 | 10 | \$98 | 16% | 1.92 |
| FE-WPP | Refrigerated Cycling Dryers | Mfg: Metals | Process Air Compressor | ROB | end use | 42,556 | 1.7% | 0.09 | 10 | \$98 | 16% | 1.92 |
| FE-WPP | VFD Controlled Compressor | Mfg: Metals | Process Air Compressor | Early | end use | 42,556 | 24% | 1.31 | 10 | \$4,189 | 22% | 0.82 |
| FE-WPP | VFD Controlled Compressor | Mfg: Metals | Process Air Compressor | New | end use | 42,556 | 24% | 1.31 | 10 | \$4,189 | 22% | 0.82 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---------------------------------------|-------------|------------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | VFD Controlled Compressor | Mfg: Metals | Process Air Compressor | ROB | end use | 42,556 | 24% | 1.31 | 10 | \$4,189 | 22% | 0.82 |
| FE-WPP | Zero Loss Condensate Drain | Mfg: Metals | Process Air Compressor | Early | end use | 42,556 | 1.9% | 0.10 | 10 | \$244 | 28% | 1.05 |
| FE-WPP | Zero Loss Condensate Drain | Mfg: Metals | Process Air Compressor | New | end use | 42,556 | 1.8% | 0.10 | 10 | \$244 | 28% | 1.05 |
| FE-WPP | Zero Loss Condensate Drain | Mfg: Metals | Process Air Compressor | ROB | end use | 42,556 | 1.8% | 0.10 | 10 | \$244 | 28% | 1.05 |
| FE-WPP | Cooling Tower Optimization | Mfg: Metals | Process Cooling | Existing | building | 38,400 | 20% | 2.75 | 10 | \$235 | 15% | 4.90 |
| FE-WPP | Equipment: Chillers | Mfg: Metals | Process Cooling | Early | end use | 139,451 | 18% | 5.20 | 15 | \$6,545 | 39% | 1.77 |
| FE-WPP | Equipment: Chillers | Mfg: Metals | Process Cooling | New | end use | 139,451 | 18% | 5.20 | 15 | \$6,545 | 39% | 1.77 |
| FE-WPP | Equipment: Chillers | Mfg: Metals | Process Cooling | ROB | end use | 139,451 | 18% | 5.20 | 15 | \$6,545 | 39% | 1.77 |
| FE-WPP | Facility Energy Management | Mfg: Metals | Process Cooling | Existing | end use | 139,451 | 1.9% | 0.54 | 2 | \$54 | 50% | 1.17 |
| FE-WPP | Facility Energy Management | Mfg: Metals | Process Cooling | New | end use | 139,451 | 1.9% | 0.54 | 2 | \$54 | 50% | 1.17 |
| FE-WPP | Improved Controls - Process Cooling | Mfg: Metals | Process Cooling | Existing | end use | 139,451 | 6.0% | 1.74 | 10 | \$7,363 | 47% | 0.45 |
| FE-WPP | Improved Controls - Process Cooling | Mfg: Metals | Process Cooling | New | end use | 139,451 | 6.0% | 1.74 | 10 | \$7,363 | 47% | 0.45 |
| FE-WPP | VFD on Cooling Tower Fan | Mfg: Metals | Process Cooling | Early | motor | 38,400 | 21% | 2.42 | 15 | \$1,773 | 20% | 2.23 |
| FE-WPP | VFD on Cooling Tower Fan | Mfg: Metals | Process Cooling | New | motor | 38,400 | 22% | 2.42 | 15 | \$1,807 | 20% | 2.22 |
| FE-WPP | VFD on Cooling Tower Fan | Mfg: Metals | Process Cooling | ROB | motor | 38,400 | 22% | 2.42 | 15 | \$1,807 | 20% | 2.22 |
| FE-WPP | Improved Controls - Process Heating | Mfg: Metals | Process Heating | Existing | end use | 5,340,511 | 17% | 125.51 | 10 | \$61,359 | 89% | 2.89 |
| FE-WPP | Improved Controls - Process Heating | Mfg: Metals | Process Heating | New | end use | 5,340,511 | 17% | 125.51 | 10 | \$61,359 | 89% | 2.89 |
| FE-WPP | Metal: New Arc Furnace | Mfg: Metals | Process Heating | Early | end use | 5,340,511 | 45% | 328.32 | 10 | \$221,884 | 8% | 2.40 |
| FE-WPP | Metal: New Arc Furnace | Mfg: Metals | Process Heating | New | end use | 5,340,511 | 45% | 328.32 | 10 | \$221,884 | 8% | 2.40 |
| FE-WPP | Metal: New Arc Furnace | Mfg: Metals | Process Heating | ROB | end use | 5,340,511 | 45% | 328.32 | 10 | \$221,884 | 8% | 2.40 |
| FE-WPP | Process Heat O&M | Mfg: Metals | Process Heating | Existing | end use | 5,340,511 | 16% | 118.69 | 2 | \$37,083 | 89% | 0.88 |
| FE-WPP | Process Heat O&M | Mfg: Metals | Process Heating | New | end use | 5,340,511 | 16% | 118.69 | 2 | \$37,083 | 89% | 0.88 |
| FE-WPP | Facility Energy Management | Mfg: Metals | Process Other | Existing | end use | 2,563,098 | 1.9% | 6.62 | 2 | \$988 | 73% | 1.09 |
| FE-WPP | Facility Energy Management | Mfg: Metals | Process Other | New | end use | 2,563,098 | 1.8% | 6.62 | 2 | \$988 | 73% | 1.09 |
| FE-WPP | Adjustable speed drive on compressors | Mfg: Metals | Process Refrigeration | Early | end use | 71,635 | 12% | 1.23 | 10 | \$1,325 | 30% | 1.78 |
| FE-WPP | Adjustable speed drive on compressors | Mfg: Metals | Process Refrigeration | New | end use | 71,635 | 12% | 1.23 | 10 | \$1,325 | 30% | 1.78 |
| FE-WPP | Adjustable speed drive on compressors | Mfg: Metals | Process Refrigeration | ROB | end use | 71,635 | 12% | 1.23 | 10 | \$1,325 | 30% | 1.78 |
| FE-WPP | Cooling Tower Optimization | Mfg: Metals | Process Refrigeration | Existing | building | 19,726 | 20% | 1.41 | 10 | \$121 | 15% | 4.90 |
| FE-WPP | Optimization of operating parameters | Mfg: Metals | Process Refrigeration | Existing | end use | 71,635 | 13% | 1.37 | 3 | \$578 | 27% | 1.11 |
| FE-WPP | Optimization of operating parameters | Mfg: Metals | Process Refrigeration | New | end use | 71,635 | 13% | 1.37 | 3 | \$578 | 27% | 1.11 |
| FE-WPP | Synchronous Belts | Mfg: Metals | Process Refrigeration | Early | end use | 71,635 | 1.2% | 0.12 | 10 | \$106 | 30% | 2.06 |
| FE-WPP | Synchronous Belts | Mfg: Metals | Process Refrigeration | New | end use | 71,635 | 1.2% | 0.12 | 10 | \$106 | 30% | 2.06 |
| FE-WPP | Synchronous Belts | Mfg: Metals | Process Refrigeration | ROB | end use | 71,635 | 1.2% | 0.12 | 10 | \$106 | 30% | 2.06 |
| FE-WPP | VFD on Cooling Tower Fan | Mfg: Metals | Process Refrigeration | Early | motor | 19,726 | 21% | 1.24 | 15 | \$911 | 20% | 2.23 |
| FE-WPP | VFD on Cooling Tower Fan | Mfg: Metals | Process Refrigeration | New | motor | 19,726 | 22% | 1.24 | 15 | \$928 | 20% | 2.22 |
| FE-WPP | VFD on Cooling Tower Fan | Mfg: Metals | Process Refrigeration | ROB | motor | 19,726 | 22% | 1.24 | 15 | \$928 | 20% | 2.22 |
| FE-WPP | Facility Energy Management | Mfg: Metals | Pumps | Existing | end use | 2,550,866 | 1.9% | 6.11 | 2 | \$983 | 69% | 1.13 |
| FE-WPP | Facility Energy Management | Mfg: Metals | Pumps | New | end use | 2,550,866 | 2.0% | 6.11 | 2 | \$983 | 69% | 1.13 |
| FE-WPP | HE Motors | Mfg: Metals | Pumps | Early | end use | 2,550,866 | 2.0% | 6.79 | 15 | \$15,185 | 73% | 1.53 |
| FE-WPP | HE Motors | Mfg: Metals | Pumps | New | end use | 2,550,866 | 2.0% | 6.79 | 15 | \$15,185 | 73% | 1.53 |
| FE-WPP | HE Motors | Mfg: Metals | Pumps | ROB | end use | 2,550,866 | 2.0% | 6.79 | 15 | \$15,185 | 73% | 1.53 |
| FE-WPP | Motor rewinds | Mfg: Metals | Pumps | Existing | end use | 2,550,866 | 0.6% | 1.97 | 9 | \$3,627 | 11% | 1.24 |
| FE-WPP | Motor rewinds | Mfg: Metals | Pumps | New | end use | 2,550,866 | 0.6% | 1.97 | 9 | \$3,627 | 11% | 1.24 |
| FE-WPP | Synchronous Belts | Mfg: Metals | Pumps | Early | end use | 2,550,866 | 1.2% | 3.87 | 10 | \$3,759 | 61% | 2.03 |
| FE-WPP | Synchronous Belts | Mfg: Metals | Pumps | New | end use | 2,550,866 | 1.2% | 3.87 | 10 | \$3,759 | 61% | 2.03 |
| FE-WPP | Synchronous Belts | Mfg: Metals | Pumps | ROB | end use | 2,550,866 | 1.2% | 3.87 | 10 | \$3,759 | 61% | 2.03 |
| FE-WPP | Circulating Fans | Mfg: Other | Fans | Early | end use | 98,874 | 5.0% | 0.59 | 10 | \$602 | 68% | 2.10 |
| FE-WPP | Circulating Fans | Mfg: Other | Fans | New | end use | 98,874 | 5.0% | 0.59 | 10 | \$602 | 68% | 2.10 |
| FE-WPP | Circulating Fans | Mfg: Other | Fans | ROB | end use | 98,874 | 5.0% | 0.59 | 10 | \$602 | 68% | 2.10 |
| FE-WPP | Facility Energy Management | Mfg: Other | Fans | Existing | end use | 98,874 | 1.9% | 0.22 | 2 | \$38 | 77% | 1.12 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|--|------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Facility Energy Management | Mfg: Other | Fans | New | end use | 98,874 | 1.9% | 0.22 | 2 | \$38 | 77% | 1.12 |
| FE-WPP | Fan Equipment Upgrade | Mfg: Other | Fans | Early | end use | 98,874 | 35% | 4.12 | 10 | \$2,966 | 68% | 2.59 |
| FE-WPP | Fan Equipment Upgrade | Mfg: Other | Fans | New | end use | 98,874 | 35% | 4.12 | 10 | \$2,966 | 68% | 2.59 |
| FE-WPP | Fan Equipment Upgrade | Mfg: Other | Fans | ROB | end use | 98,874 | 35% | 4.12 | 10 | \$2,966 | 68% | 2.59 |
| FE-WPP | Fan System Optimization | Mfg: Other | Fans | Existing | end use | 98,874 | 7.3% | 0.86 | 10 | \$1,349 | 83% | 1.57 |
| FE-WPP | Fan System Optimization | Mfg: Other | Fans | New | end use | 98,874 | 7.3% | 0.86 | 10 | \$1,349 | 83% | 1.57 |
| FE-WPP | HE Motors | Mfg: Other | Fans | Early | end use | 98,874 | 2.0% | 0.24 | 15 | \$589 | 77% | 1.55 |
| FE-WPP | HE Motors | Mfg: Other | Fans | New | end use | 98,874 | 2.0% | 0.24 | 15 | \$589 | 77% | 1.55 |
| FE-WPP | HE Motors | Mfg: Other | Fans | ROB | end use | 98,874 | 2.0% | 0.24 | 15 | \$589 | 77% | 1.55 |
| FE-WPP | Improved Controls - Fans | Mfg: Other | Fans | Existing | end use | 98,874 | 7.1% | 0.84 | 10 | \$383 | 88% | 3.23 |
| FE-WPP | Improved Controls - Fans | Mfg: Other | Fans | New | end use | 98,874 | 7.1% | 0.84 | 10 | \$383 | 88% | 3.23 |
| FE-WPP | Properly Sized Fans | Mfg: Other | Fans | Early | end use | 98,874 | 13% | 1.55 | 10 | \$2,025 | 41% | 1.79 |
| FE-WPP | Properly Sized Fans | Mfg: Other | Fans | New | end use | 98,874 | 13% | 1.55 | 10 | \$2,025 | 41% | 1.79 |
| FE-WPP | Properly Sized Fans | Mfg: Other | Fans | ROB | end use | 98,874 | 13% | 1.55 | 10 | \$2,025 | 41% | 1.79 |
| FE-WPP | Synchronous Belts | Mfg: Other | Fans | Early | end use | 98,874 | 1.2% | 0.14 | 10 | \$146 | 41% | 2.05 |
| FE-WPP | Synchronous Belts | Mfg: Other | Fans | New | end use | 98,874 | 1.2% | 0.14 | 10 | \$146 | 41% | 2.05 |
| FE-WPP | Synchronous Belts | Mfg: Other | Fans | ROB | end use | 98,874 | 1.2% | 0.14 | 10 | \$146 | 41% | 2.05 |
| FE-WPP | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Other | HVAC | Early | unit (ton) | 134,871 | 9.2% | 3.21 | 15 | \$24,579 | 28% | 0.31 |
| FE-WPP | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Other | HVAC | New | unit (ton) | 134,871 | 4.1% | 1.44 | 15 | \$5,955 | 28% | 0.56 |
| FE-WPP | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Other | HVAC | ROB | unit (ton) | 134,871 | 4.1% | 1.44 | 15 | \$5,955 | 28% | 0.56 |
| FE-WPP | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Other | HVAC | Early | unit (ton) | 134,871 | 12% | 4.34 | 15 | \$28,977 | 28% | 0.36 |
| FE-WPP | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Other | HVAC | New | unit (ton) | 134,871 | 7.7% | 2.69 | 15 | \$12,543 | 28% | 0.50 |
| FE-WPP | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Other | HVAC | ROB | unit (ton) | 134,871 | 7.7% | 2.69 | 15 | \$12,543 | 28% | 0.50 |
| FE-WPP | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Other | HVAC | Early | unit (ton) | 134,871 | 15% | 5.33 | 15 | \$33,374 | 29% | 0.38 |
| FE-WPP | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Other | HVAC | New | unit (ton) | 134,871 | 11% | 3.79 | 15 | \$19,130 | 29% | 0.47 |
| FE-WPP | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Other | HVAC | ROB | unit (ton) | 134,871 | 11% | 3.79 | 15 | \$19,130 | 29% | 0.47 |
| FE-WPP | >760k min 10.2 EER Air Conditioner | Mfg: Other | HVAC | Early | unit (ton) | 134,871 | 2.1% | 0.74 | 15 | \$42,804 | 35% | 0.04 |
| FE-WPP | >760k min 10.2 EER Air Conditioner | Mfg: Other | HVAC | New | unit (ton) | 134,871 | 2.8% | 0.99 | 15 | \$3,869 | 35% | 0.59 |
| FE-WPP | >760k min 10.2 EER Air Conditioner | Mfg: Other | HVAC | ROB | unit (ton) | 134,871 | 2.8% | 0.99 | 15 | \$3,869 | 35% | 0.59 |
| FE-WPP | 135-240k min 12 EER Air Conditioner | Mfg: Other | HVAC | Early | unit (ton) | 134,871 | 10% | 3.66 | 15 | \$46,350 | 35% | 0.19 |
| FE-WPP | 135-240k min 12 EER Air Conditioner | Mfg: Other | HVAC | New | unit (ton) | 134,871 | 5.8% | 2.02 | 15 | \$5,473 | 35% | 0.83 |
| FE-WPP | 135-240k min 12 EER Air Conditioner | Mfg: Other | HVAC | ROB | unit (ton) | 134,871 | 5.8% | 2.02 | 15 | \$5,473 | 35% | 0.83 |
| FE-WPP | 240k-760k min 11 EER Air Conditioner | Mfg: Other | HVAC | Early | unit (ton) | 134,871 | 5.2% | 1.82 | 15 | \$42,830 | 35% | 0.10 |
| FE-WPP | 240k-760k min 11 EER Air Conditioner | Mfg: Other | HVAC | New | unit (ton) | 134,871 | 5.3% | 1.87 | 15 | \$4,589 | 35% | 0.91 |
| FE-WPP | 240k-760k min 11 EER Air Conditioner | Mfg: Other | HVAC | ROB | unit (ton) | 134,871 | 5.3% | 1.87 | 15 | \$4,589 | 35% | 0.91 |
| FE-WPP | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Other | HVAC | Early | unit (ton) | 134,871 | 9.7% | 3.40 | 15 | \$47,458 | 35% | 0.17 |
| FE-WPP | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Other | HVAC | New | unit (ton) | 134,871 | 3.8% | 1.35 | 15 | \$6,771 | 35% | 0.47 |
| FE-WPP | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Other | HVAC | ROB | unit (ton) | 134,871 | 3.8% | 1.35 | 15 | \$6,771 | 35% | 0.47 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Mfg: Other | HVAC | Existing | building | 134,871 | 5.9% | 2.00 | 15 | \$408,638 | 71% | 0.01 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Mfg: Other | HVAC | New | building | 134,871 | 3.7% | 1.26 | 15 | \$388,422 | 94% | 0.01 |
| FE-WPP | Chiller Tuneup/Diagnostics | Mfg: Other | HVAC | Existing | building | 134,871 | 8.0% | 3.96 | 10 | \$344,386 | 59% | 0.02 |
| FE-WPP | Chiller Tuneup/Diagnostics | Mfg: Other | HVAC | New | building | 134,871 | 8.0% | 3.96 | 10 | \$344,386 | 59% | 0.02 |
| FE-WPP | Cooling Tower Optimization | Mfg: Other | HVAC | Existing | building | 134,871 | 20% | 9.65 | 10 | \$827 | 69% | 5.07 |
| FE-WPP | Duct Insulation, Add R8 | Mfg: Other | HVAC | Existing | building | 134,871 | 1.5% | 0.43 | 15 | \$1,071 | 18% | 1.05 |
| FE-WPP | Duct Insulation, Add R8 | Mfg: Other | HVAC | New | building | 134,871 | 1.5% | 0.43 | 15 | \$1,071 | 9% | 1.05 |
| FE-WPP | Ductless Heat Pump | Mfg: Other | HVAC | Early | heat pump | 134,871 | 0.8% | 0.25 | 15 | \$10,663 | 83% | 0.06 |
| FE-WPP | Ductless Heat Pump | Mfg: Other | HVAC | New | heat pump | 134,871 | 0.4% | 0.13 | 15 | \$3,097 | 83% | 0.12 |
| FE-WPP | Ductless Heat Pump | Mfg: Other | HVAC | ROB | heat pump | 134,871 | 0.4% | 0.13 | 15 | \$3,097 | 83% | 0.12 |
| FE-WPP | DX Coil Cleaning | Mfg: Other | HVAC | Existing | building | 134,871 | 13% | 6.19 | 1 | \$1,293 | 73% | 0.45 |
| FE-WPP | DX Coil Cleaning | Mfg: Other | HVAC | New | building | 134,871 | 13% | 6.19 | 1 | \$1,293 | 73% | 0.45 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Efficient Unit Heating System | Mfg: Other | HVAC | Early | heater | 134,871 | 6.9% | 0.08 | 15 | \$7,281 | 83% | 0.59 |
| FE-WPP | Efficient Unit Heating System | Mfg: Other | HVAC | New | heater | 134,871 | 4.0% | 0.04 | 15 | \$4,966 | 83% | 0.50 |
| FE-WPP | Efficient Unit Heating System | Mfg: Other | HVAC | ROB | heater | 134,871 | 4.0% | 0.04 | 15 | \$4,966 | 83% | 0.50 |
| FE-WPP | Ground Source Heat Pump (Closed Loop) | Mfg: Other | HVAC | Early | heat pump | 134,871 | 1.3% | 0.39 | 15 | \$22,140 | 19% | 0.05 |
| FE-WPP | Ground Source Heat Pump (Closed Loop) | Mfg: Other | HVAC | New | heat pump | 134,871 | 1.0% | 0.31 | 15 | \$8,742 | 19% | 0.10 |
| FE-WPP | Ground Source Heat Pump (Closed Loop) | Mfg: Other | HVAC | ROB | heat pump | 134,871 | 1.0% | 0.31 | 15 | \$8,742 | 19% | 0.10 |
| FE-WPP | Ground Source Heat Pump (Open Loop) | Mfg: Other | HVAC | Early | heat pump | 134,871 | 1.3% | 0.39 | 15 | \$14,180 | 19% | 0.08 |
| FE-WPP | Ground Source Heat Pump (Open Loop) | Mfg: Other | HVAC | New | heat pump | 134,871 | 1.0% | 0.31 | 15 | \$301 | 19% | 2.16 |
| FE-WPP | Ground Source Heat Pump (Open Loop) | Mfg: Other | HVAC | ROB | heat pump | 134,871 | 1.0% | 0.31 | 15 | \$301 | 19% | 2.16 |
| FE-WPP | HE Air Cooled Chiller, 100 Tons | Mfg: Other | HVAC | Early | unit (ton) | 134,871 | 1.5% | 0.44 | 15 | \$156,891 | 89% | 0.01 |
| FE-WPP | HE Air Cooled Chiller, 100 Tons | Mfg: Other | HVAC | New | unit (ton) | 134,871 | 0.4% | 0.13 | 15 | \$22,856 | 89% | 0.02 |
| FE-WPP | HE Air Cooled Chiller, 100 Tons | Mfg: Other | HVAC | ROB | unit (ton) | 134,871 | 0.4% | 0.13 | 15 | \$22,856 | 89% | 0.02 |
| FE-WPP | HE Air Cooled Chiller, 150 Tons | Mfg: Other | HVAC | Early | unit (ton) | 134,871 | 1.4% | 0.44 | 15 | \$135,518 | 89% | 0.01 |
| FE-WPP | HE Air Cooled Chiller, 150 Tons | Mfg: Other | HVAC | New | unit (ton) | 134,871 | 0.3% | 0.09 | 15 | \$11,225 | 89% | 0.02 |
| FE-WPP | HE Air Cooled Chiller, 150 Tons | Mfg: Other | HVAC | ROB | unit (ton) | 134,871 | 0.3% | 0.09 | 15 | \$11,225 | 89% | 0.02 |
| FE-WPP | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Other | HVAC | Early | heat pump | 134,871 | 1.4% | 0.41 | 12 | \$5,780 | 81% | 0.16 |
| FE-WPP | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Other | HVAC | Early | heat pump | 134,871 | 1.1% | 0.34 | 12 | \$4,223 | 81% | 0.18 |
| FE-WPP | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Other | HVAC | New | heat pump | 134,871 | 1.0% | 0.31 | 12 | \$2,580 | 81% | 0.26 |
| FE-WPP | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Other | HVAC | New | heat pump | 134,871 | 0.8% | 0.23 | 12 | \$902 | 81% | 0.54 |
| FE-WPP | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Other | HVAC | ROB | heat pump | 134,871 | 1.0% | 0.31 | 12 | \$2,580 | 81% | 0.26 |
| FE-WPP | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Other | HVAC | ROB | heat pump | 134,871 | 0.8% | 0.23 | 12 | \$902 | 81% | 0.54 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Other | HVAC | Early | unit (ton) | 134,871 | 1.6% | 0.48 | 15 | \$12,448 | 89% | 0.11 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Other | HVAC | New | unit (ton) | 134,871 | 0.9% | 0.28 | 15 | \$4,140 | 89% | 0.18 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Other | HVAC | ROB | unit (ton) | 134,871 | 0.9% | 0.28 | 15 | \$4,140 | 89% | 0.18 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Other | HVAC | Early | unit (ton) | 134,871 | 1.4% | 0.43 | 15 | \$12,158 | 89% | 0.10 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Other | HVAC | New | unit (ton) | 134,871 | 1.0% | 0.30 | 15 | \$2,374 | 89% | 0.34 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Other | HVAC | ROB | unit (ton) | 134,871 | 1.4% | 0.43 | 15 | \$2,181 | 89% | 0.51 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Other | HVAC | Early | unit (ton) | 134,871 | 1.4% | 0.42 | 15 | \$14,389 | 89% | 0.08 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Other | HVAC | New | unit (ton) | 134,871 | 0.9% | 0.27 | 15 | \$6,058 | 89% | 0.12 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Other | HVAC | ROB | unit (ton) | 134,871 | 1.4% | 0.42 | 15 | \$5,483 | 89% | 0.21 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Other | HVAC | Early | unit (ton) | 134,871 | 1.4% | 0.42 | 15 | \$13,861 | 89% | 0.08 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Other | HVAC | New | unit (ton) | 134,871 | 0.9% | 0.27 | 15 | \$5,266 | 89% | 0.14 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Other | HVAC | ROB | unit (ton) | 134,871 | 1.4% | 0.42 | 15 | \$4,766 | 89% | 0.24 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Other | HVAC | Early | unit (ton) | 134,871 | 1.8% | 0.55 | 15 | \$14,935 | 89% | 0.10 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Other | HVAC | New | unit (ton) | 134,871 | 0.5% | 0.17 | 15 | \$9,248 | 89% | 0.05 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Other | HVAC | ROB | unit (ton) | 134,871 | 1.8% | 0.55 | 15 | \$7,181 | 89% | 0.21 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Other | HVAC | Early | unit (ton) | 134,871 | 2.1% | 0.65 | 15 | \$13,737 | 89% | 0.13 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Other | HVAC | New | unit (ton) | 134,871 | 0.8% | 0.23 | 15 | \$5,512 | 89% | 0.12 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Other | HVAC | ROB | unit (ton) | 134,871 | 0.8% | 0.23 | 15 | \$5,512 | 89% | 0.12 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Other | HVAC | Early | unit (ton) | 134,871 | 2.4% | 0.73 | 15 | \$11,643 | 89% | 0.17 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Other | HVAC | New | unit (ton) | 134,871 | 0.9% | 0.27 | 15 | \$2,930 | 89% | 0.25 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Other | HVAC | ROB | unit (ton) | 134,871 | 2.4% | 0.73 | 15 | \$2,089 | 89% | 0.87 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Other | HVAC | Early | unit (ton) | 134,871 | 1.8% | 0.55 | 15 | \$11,526 | 89% | 0.13 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Other | HVAC | New | unit (ton) | 134,871 | 0.7% | 0.21 | 15 | \$3,227 | 89% | 0.17 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Other | HVAC | ROB | unit (ton) | 134,871 | 1.8% | 0.55 | 15 | \$2,557 | 89% | 0.56 |
| FE-WPP | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Other | HVAC | Existing | building | 134,871 | 2.9% | 0.79 | 5 | \$1,431 | 55% | 0.58 |
| FE-WPP | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Other | HVAC | New | building | 134,871 | 0.6% | 0.31 | 5 | \$859 | 51% | 0.28 |
| FE-WPP | Improved Controls - HVAC | Mfg: Other | HVAC | Existing | end use | 199,563 | 21% | 5.98 | 10 | \$2,098 | 76% | 3.46 |
| FE-WPP | Improved Controls - HVAC | Mfg: Other | HVAC | New | end use | 199,563 | 21% | 5.98 | 10 | \$2,098 | 76% | 3.46 |
| FE-WPP | Outside Air Economizer | Mfg: Other | HVAC | Existing | building | 134,871 | 1.1% | 0.38 | 10 | \$495,542 | 82% | 0.00 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---------------------------------------|------------|----------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Outside Air Economizer | Mfg: Other | HVAC | New | building | 134,871 | 1.1% | 0.38 | 10 | \$495,542 | 82% | 0.00 |
| FE-WPP | Recommissioning | Mfg: Other | HVAC | Existing | end use | 199,563 | 5.0% | 1.43 | 10 | \$274 | 88% | 4.27 |
| FE-WPP | Recommissioning | Mfg: Other | HVAC | New | end use | 199,563 | 5.0% | 1.43 | 10 | \$274 | 88% | 4.27 |
| FE-WPP | Room AC (with louvered sides) | Mfg: Other | HVAC | Early | unit (ton) | 134,871 | 7.7% | 2.34 | 9 | \$10,576 | 78% | 0.39 |
| FE-WPP | Room AC (with louvered sides) | Mfg: Other | HVAC | New | unit (ton) | 134,871 | 2.6% | 0.78 | 9 | \$579 | 78% | 1.77 |
| FE-WPP | Room AC (with louvered sides) | Mfg: Other | HVAC | ROB | unit (ton) | 134,871 | 2.6% | 0.78 | 9 | \$579 | 78% | 1.77 |
| FE-WPP | Variable Refrigerant Flow Heat Pump | Mfg: Other | HVAC | New | measure | 134,871 | 0.1% | 0.03 | 13 | \$993 | 43% | 0.09 |
| FE-WPP | Variable Refrigerant Flow Heat Pump | Mfg: Other | HVAC | ROB | measure | 134,871 | 0.1% | 0.03 | 13 | \$993 | 43% | 0.09 |
| FE-WPP | VFD on Cooling Tower Fan | Mfg: Other | HVAC | Early | motor | 134,871 | 21% | 8.51 | 15 | \$6,228 | 15% | 2.32 |
| FE-WPP | VFD on Cooling Tower Fan | Mfg: Other | HVAC | New | motor | 134,871 | 22% | 8.51 | 15 | \$6,347 | 15% | 2.31 |
| FE-WPP | VFD on Cooling Tower Fan | Mfg: Other | HVAC | ROB | motor | 134,871 | 22% | 8.51 | 15 | \$6,347 | 15% | 2.31 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Mfg: Other | HVAC | Existing | building | 134,871 | 19% | 6.45 | 15 | \$95,943 | 26% | 0.17 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Mfg: Other | HVAC | New | building | 134,871 | 0.6% | 0.21 | 15 | \$73,593 | 94% | 0.01 |
| FE-WPP | Water Source Heat Pump (4 ton) | Mfg: Other | HVAC | Early | heat pump | 134,871 | 1.5% | 0.47 | 15 | \$22,928 | 28% | 0.06 |
| FE-WPP | Water Source Heat Pump (4 ton) | Mfg: Other | HVAC | New | heat pump | 134,871 | 1.1% | 0.34 | 15 | \$11,174 | 28% | 0.08 |
| FE-WPP | Water Source Heat Pump (4 ton) | Mfg: Other | HVAC | ROB | heat pump | 134,871 | 1.1% | 0.34 | 15 | \$11,174 | 28% | 0.08 |
| FE-WPP | Efficient Metal Halide (High Bay) | Mfg: Other | Lighting | Early | end use | 95,733 | 42% | 0.00 | 9 | \$14,959 | 53% | 0.73 |
| FE-WPP | Efficient Metal Halide (High Bay) | Mfg: Other | Lighting | New | end use | 95,733 | 41% | 0.00 | 13 | \$399,571 | 61% | 0.04 |
| FE-WPP | Efficient Metal Halide (High Bay) | Mfg: Other | Lighting | ROB | end use | 95,733 | 41% | 0.00 | 13 | \$305,374 | 61% | 0.06 |
| FE-WPP | Induction (High Bay) | Mfg: Other | Lighting | Early | end use | 95,733 | 94% | 0.00 | 13 | \$44,511 | 95% | 0.77 |
| FE-WPP | Induction (High Bay) | Mfg: Other | Lighting | New | end use | 95,733 | 94% | 0.00 | 13 | \$41,673 | 95% | 0.81 |
| FE-WPP | Induction (High Bay) | Mfg: Other | Lighting | ROB | end use | 95,733 | 94% | 0.00 | 13 | \$31,673 | 95% | 1.02 |
| FE-WPP | LED (High Bay) | Mfg: Other | Lighting | Early | end use | 95,733 | 69% | 0.00 | 14 | \$52,396 | 95% | 0.53 |
| FE-WPP | LED (High Bay) | Mfg: Other | Lighting | New | end use | 95,733 | 55% | 0.00 | 14 | \$58,158 | 95% | 0.39 |
| FE-WPP | LED (High Bay) | Mfg: Other | Lighting | ROB | end use | 95,733 | 59% | 0.00 | 14 | \$38,319 | 95% | 0.61 |
| FE-WPP | Lighting Controls | Mfg: Other | Lighting | Existing | end use | 95,733 | 20% | 0.00 | 6 | \$358,891 | 16% | 0.01 |
| FE-WPP | Lighting Controls | Mfg: Other | Lighting | New | end use | 95,733 | 12% | 0.00 | 10 | \$477,443 | 11% | 0.01 |
| FE-WPP | Linear Fluorescent (High Bay) | Mfg: Other | Lighting | Early | end use | 95,733 | 17% | 0.00 | 14 | \$10,954 | 98% | 0.61 |
| FE-WPP | Linear Fluorescent (High Bay) | Mfg: Other | Lighting | New | end use | 95,733 | 13% | 0.00 | 14 | \$3,474 | 91% | 1.29 |
| FE-WPP | Linear Fluorescent (High Bay) | Mfg: Other | Lighting | ROB | end use | 95,733 | 13% | 0.00 | 14 | \$2,224 | 91% | 1.87 |
| FE-WPP | Metal Halide (High Bay) | Mfg: Other | Lighting | Early | end use | 95,733 | 62% | 0.00 | 13 | \$65,810 | 38% | 0.37 |
| FE-WPP | Metal Halide (High Bay) | Mfg: Other | Lighting | New | end use | 95,733 | 73% | 0.00 | 13 | \$15,734 | 38% | 1.46 |
| FE-WPP | Metal Halide (High Bay) | Mfg: Other | Lighting | ROB | end use | 95,733 | 73% | 0.00 | 13 | \$11,958 | 38% | 1.78 |
| FE-WPP | Screw Base CFL | Mfg: Other | Lighting | Early | end use | 95,733 | 80% | 0.00 | 7 | \$26,009 | 17% | 0.64 |
| FE-WPP | Screw Base CFL | Mfg: Other | Lighting | New | end use | 95,733 | 73% | 0.00 | 9 | \$21,255 | 18% | 0.86 |
| FE-WPP | Screw Base CFL | Mfg: Other | Lighting | ROB | end use | 95,733 | 73% | 0.00 | 9 | \$17,791 | 17% | 0.99 |
| FE-WPP | Screw Base LED | Mfg: Other | Lighting | Early | end use | 95,733 | 76% | 0.00 | 9 | \$15,962 | 21% | 1.15 |
| FE-WPP | Screw Base LED | Mfg: Other | Lighting | New | end use | 95,733 | 77% | 0.00 | 9 | \$8,892 | 20% | 1.75 |
| FE-WPP | Screw Base LED | Mfg: Other | Lighting | ROB | end use | 95,733 | 77% | 0.00 | 9 | \$7,059 | 21% | 2.01 |
| FE-WPP | T8 High Performance Linear Florescent | Mfg: Other | Lighting | Early | end use | 95,733 | 36% | 0.00 | 14 | \$9,161 | 71% | 1.37 |
| FE-WPP | T8 High Performance Linear Florescent | Mfg: Other | Lighting | New | end use | 95,733 | 26% | 0.00 | 14 | \$3,278 | 76% | 2.31 |
| FE-WPP | T8 High Performance Linear Florescent | Mfg: Other | Lighting | ROB | end use | 95,733 | 26% | 0.00 | 14 | \$2,491 | 76% | 2.73 |
| FE-WPP | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Other | Motors | Early | end use | 31,216 | 0.9% | 0.04 | 15 | \$477 | 81% | 0.33 |
| FE-WPP | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Other | Motors | New | end use | 31,216 | 0.9% | 0.04 | 15 | \$477 | 81% | 0.32 |
| FE-WPP | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Other | Motors | ROB | end use | 31,216 | 0.9% | 0.04 | 15 | \$477 | 81% | 0.32 |
| FE-WPP | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Other | Motors | Early | end use | 31,216 | 0.8% | 0.03 | 15 | \$290 | 73% | 0.44 |
| FE-WPP | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Other | Motors | New | end use | 31,216 | 0.8% | 0.03 | 15 | \$290 | 73% | 0.43 |
| FE-WPP | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Other | Motors | ROB | end use | 31,216 | 0.7% | 0.03 | 15 | \$290 | 73% | 0.42 |
| FE-WPP | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Other | Motors | Early | end use | 31,216 | 0.5% | 0.02 | 15 | \$111 | 81% | 0.65 |
| FE-WPP | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Other | Motors | New | end use | 31,216 | 0.4% | 0.02 | 15 | \$111 | 81% | 0.65 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|--|------------|---------|----------|---------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Other | Motors | ROB | end use | 31,216 | 0.5% | 0.02 | 15 | \$111 | 81% | 0.66 |
| FE-WPP | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Other | Motors | Early | end use | 31,216 | 0.4% | 0.02 | 15 | \$37 | 73% | 1.54 |
| FE-WPP | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Other | Motors | New | end use | 31,216 | 0.4% | 0.02 | 15 | \$37 | 73% | 1.52 |
| FE-WPP | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Other | Motors | ROB | end use | 31,216 | 0.4% | 0.02 | 15 | \$37 | 73% | 1.51 |
| FE-WPP | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Other | Motors | Early | end use | 31,216 | 0.9% | 0.04 | 15 | \$55 | 47% | 2.14 |
| FE-WPP | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Other | Motors | New | end use | 31,216 | 0.9% | 0.04 | 15 | \$55 | 47% | 2.13 |
| FE-WPP | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Other | Motors | ROB | end use | 31,216 | 0.9% | 0.04 | 15 | \$55 | 47% | 2.16 |
| FE-WPP | Facility Energy Management | Mfg: Other | Motors | Existing | end use | 31,216 | 1.9% | 0.08 | 2 | \$12 | 77% | 1.12 |
| FE-WPP | Facility Energy Management | Mfg: Other | Motors | New | end use | 31,216 | 1.9% | 0.08 | 2 | \$12 | 77% | 1.12 |
| FE-WPP | HE Motors | Mfg: Other | Motors | Early | end use | 31,216 | 2.0% | 0.09 | 15 | \$186 | 38% | 1.55 |
| FE-WPP | HE Motors | Mfg: Other | Motors | New | end use | 31,216 | 2.0% | 0.09 | 15 | \$186 | 38% | 1.55 |
| FE-WPP | HE Motors | Mfg: Other | Motors | ROB | end use | 31,216 | 2.0% | 0.09 | 15 | \$186 | 38% | 1.55 |
| FE-WPP | High-Efficiency Ventilation System | Mfg: Other | Motors | Early | end use | 31,216 | 5.7% | 0.25 | 10 | \$1,951 | 73% | 0.35 |
| FE-WPP | High-Efficiency Ventilation System | Mfg: Other | Motors | New | end use | 31,216 | 5.7% | 0.25 | 10 | \$1,951 | 73% | 0.34 |
| FE-WPP | High-Efficiency Ventilation System | Mfg: Other | Motors | ROB | end use | 31,216 | 5.7% | 0.25 | 10 | \$1,951 | 73% | 0.35 |
| FE-WPP | Improved Controls - Motors | Mfg: Other | Motors | Existing | end use | 31,216 | 4.0% | 0.18 | 10 | \$136 | 73% | 2.24 |
| FE-WPP | Improved Controls - Motors | Mfg: Other | Motors | New | end use | 31,216 | 4.0% | 0.18 | 10 | \$136 | 73% | 2.24 |
| FE-WPP | Motor Management Plan | Mfg: Other | Motors | Existing | end use | 31,216 | 2.9% | 0.13 | 10 | \$64 | 73% | 2.87 |
| FE-WPP | Motor Management Plan | Mfg: Other | Motors | New | end use | 31,216 | 2.9% | 0.13 | 10 | \$64 | 73% | 2.87 |
| FE-WPP | Motors Other | Mfg: Other | Motors | Existing | end use | 31,216 | 1.1% | 0.05 | 15 | \$6.2 | 83% | 6.32 |
| FE-WPP | Motors Other | Mfg: Other | Motors | New | end use | 31,216 | 1.1% | 0.05 | 15 | \$6.2 | 83% | 6.32 |
| FE-WPP | Motors: Rewind 101-200 HP | Mfg: Other | Motors | Existing | end use | 31,216 | 0.6% | 0.02 | 10 | \$39 | 27% | 1.37 |
| FE-WPP | Motors: Rewind 101-200 HP | Mfg: Other | Motors | New | end use | 31,216 | 0.6% | 0.02 | 10 | \$39 | 27% | 1.36 |
| FE-WPP | Motors: Rewind 201-500 HP | Mfg: Other | Motors | Existing | end use | 31,216 | 0.6% | 0.02 | 8 | \$25 | 27% | 1.60 |
| FE-WPP | Motors: Rewind 201-500 HP | Mfg: Other | Motors | New | end use | 31,216 | 0.6% | 0.02 | 8 | \$25 | 27% | 1.60 |
| FE-WPP | Motors: Rewind 20-50 HP | Mfg: Other | Motors | Existing | end use | 31,216 | 1.0% | 0.05 | 11 | \$116 | 42% | 1.02 |
| FE-WPP | Motors: Rewind 20-50 HP | Mfg: Other | Motors | New | end use | 31,216 | 1.0% | 0.05 | 11 | \$116 | 42% | 1.02 |
| FE-WPP | Motors: Rewind 500+ HP | Mfg: Other | Motors | Existing | end use | 31,216 | 0.6% | 0.02 | 8 | \$18 | 11% | 2.02 |
| FE-WPP | Motors: Rewind 500+ HP | Mfg: Other | Motors | New | end use | 31,216 | 0.6% | 0.02 | 8 | \$18 | 11% | 2.01 |
| FE-WPP | Motors: Rewind 51-100 HP | Mfg: Other | Motors | Existing | end use | 31,216 | 0.6% | 0.03 | 9 | \$57 | 42% | 1.01 |
| FE-WPP | Motors: Rewind 51-100 HP | Mfg: Other | Motors | New | end use | 31,216 | 0.6% | 0.03 | 9 | \$57 | 42% | 1.02 |
| FE-WPP | Switch from Belt drive to Direct Drive | Mfg: Other | Motors | Early | end use | 31,216 | 7.5% | 0.33 | 12 | \$501 | 30% | 1.63 |
| FE-WPP | Switch from Belt drive to Direct Drive | Mfg: Other | Motors | New | end use | 31,216 | 7.5% | 0.33 | 12 | \$501 | 30% | 1.63 |
| FE-WPP | Switch from Belt drive to Direct Drive | Mfg: Other | Motors | ROB | end use | 31,216 | 7.5% | 0.33 | 12 | \$501 | 30% | 1.63 |
| FE-WPP | Synchronous Belts | Mfg: Other | Motors | Early | end use | 31,216 | 1.2% | 0.05 | 10 | \$46 | 30% | 2.05 |
| FE-WPP | Synchronous Belts | Mfg: Other | Motors | New | end use | 31,216 | 1.2% | 0.05 | 10 | \$46 | 30% | 2.05 |
| FE-WPP | Synchronous Belts | Mfg: Other | Motors | ROB | end use | 31,216 | 1.2% | 0.05 | 10 | \$46 | 30% | 2.05 |
| FE-WPP | Bldg Improvements | Mfg: Other | Other | Existing | end use | 43,047 | 16% | 0.83 | 15 | \$939 | 72% | 2.66 |
| FE-WPP | Bldg Improvements | Mfg: Other | Other | New | end use | 43,047 | 16% | 0.83 | 15 | \$939 | 72% | 2.66 |
| FE-WPP | Energy Project Management | Mfg: Other | Other | Existing | end use | 43,047 | 29% | 1.49 | 11 | \$1,537 | 63% | 2.18 |
| FE-WPP | Energy Project Management | Mfg: Other | Other | New | end use | 43,047 | 29% | 1.49 | 11 | \$1,537 | 63% | 2.18 |
| FE-WPP | Facility Energy Management | Mfg: Other | Other | Existing | end use | 43,047 | 1.9% | 0.09 | 2 | \$17 | 76% | 1.09 |
| FE-WPP | Facility Energy Management | Mfg: Other | Other | New | end use | 43,047 | 1.9% | 0.09 | 2 | \$17 | 76% | 1.09 |
| FE-WPP | Integrated Plant Energy Management | Mfg: Other | Other | Existing | end use | 43,047 | 50% | 2.56 | 11 | \$4,243 | 48% | 1.57 |
| FE-WPP | Integrated Plant Energy Management | Mfg: Other | Other | New | end use | 43,047 | 50% | 2.56 | 11 | \$4,243 | 48% | 1.57 |
| FE-WPP | Plant Energy Management | Mfg: Other | Other | Existing | end use | 43,047 | 12% | 0.61 | 10 | \$108 | 55% | 4.32 |
| FE-WPP | Plant Energy Management | Mfg: Other | Other | New | end use | 43,047 | 12% | 0.61 | 10 | \$108 | 55% | 4.32 |
| FE-WPP | Transformers | Mfg: Other | Other | Early | end use | 43,047 | 1.6% | 0.08 | 15 | \$138 | 34% | 2.00 |
| FE-WPP | Transformers | Mfg: Other | Other | New | end use | 43,047 | 1.6% | 0.08 | 15 | \$138 | 34% | 1.99 |
| FE-WPP | Transformers | Mfg: Other | Other | ROB | end use | 43,047 | 1.6% | 0.08 | 15 | \$138 | 34% | 1.99 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---------------------------------------|------------|------------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Air Compressor Demand Reduction | Mfg: Other | Process Air Compressor | Existing | end use | 1,766 | 26% | 0.06 | 10 | \$26 | 52% | 3.10 |
| FE-WPP | Air Compressor Demand Reduction | Mfg: Other | Process Air Compressor | New | end use | 1,766 | 26% | 0.06 | 10 | \$26 | 52% | 3.10 |
| FE-WPP | Air Compressor Equipment | Mfg: Other | Process Air Compressor | Early | end use | 1,766 | 39% | 0.09 | 10 | \$32 | 73% | 3.40 |
| FE-WPP | Air Compressor Equipment | Mfg: Other | Process Air Compressor | New | end use | 1,766 | 39% | 0.09 | 10 | \$32 | 73% | 3.40 |
| FE-WPP | Air Compressor Equipment | Mfg: Other | Process Air Compressor | ROB | end use | 1,766 | 39% | 0.09 | 10 | \$32 | 73% | 3.40 |
| FE-WPP | Air Compressor Optimization | Mfg: Other | Process Air Compressor | Existing | end use | 1,766 | 39% | 0.09 | 10 | \$77 | 55% | 2.20 |
| FE-WPP | Air Compressor Optimization | Mfg: Other | Process Air Compressor | New | end use | 1,766 | 39% | 0.09 | 10 | \$77 | 55% | 2.20 |
| FE-WPP | Facility Energy Management | Mfg: Other | Process Air Compressor | Existing | end use | 1,766 | 1.9% | 0.00 | 2 | \$0.7 | 62% | 1.10 |
| FE-WPP | Facility Energy Management | Mfg: Other | Process Air Compressor | New | end use | 1,766 | 1.9% | 0.00 | 2 | \$0.7 | 62% | 1.10 |
| FE-WPP | HE Compressor motors | Mfg: Other | Process Air Compressor | Early | end use | 1,766 | 1.1% | 0.00 | 15 | \$6.7 | 73% | 1.35 |
| FE-WPP | HE Compressor motors | Mfg: Other | Process Air Compressor | New | end use | 1,766 | 1.1% | 0.00 | 15 | \$6.7 | 73% | 1.34 |
| FE-WPP | HE Compressor motors | Mfg: Other | Process Air Compressor | ROB | end use | 1,766 | 1.1% | 0.00 | 15 | \$6.7 | 73% | 1.35 |
| FE-WPP | Improved Controls - Air Compressor | Mfg: Other | Process Air Compressor | Existing | end use | 1,766 | 41% | 0.09 | 10 | \$32 | 25% | 3.49 |
| FE-WPP | Improved Controls - Air Compressor | Mfg: Other | Process Air Compressor | New | end use | 1,766 | 41% | 0.09 | 10 | \$32 | 25% | 3.49 |
| FE-WPP | Low Pressure-drop Filters | Mfg: Other | Process Air Compressor | Existing | end use | 1,766 | 1.9% | 0.00 | 10 | \$20 | 61% | 0.58 |
| FE-WPP | Low Pressure-drop Filters | Mfg: Other | Process Air Compressor | New | end use | 1,766 | 1.8% | 0.00 | 10 | \$20 | 61% | 0.58 |
| FE-WPP | Outside Air Intake | Mfg: Other | Process Air Compressor | Existing | end use | 1,766 | 1.4% | 0.00 | 10 | \$12 | 48% | 0.76 |
| FE-WPP | Outside Air Intake | Mfg: Other | Process Air Compressor | New | end use | 1,766 | 1.4% | 0.00 | 10 | \$12 | 48% | 0.75 |
| FE-WPP | Receiver Capacity Addition | Mfg: Other | Process Air Compressor | Existing | end use | 1,766 | 5.9% | 0.01 | 10 | \$33 | 36% | 1.04 |
| FE-WPP | Receiver Capacity Addition | Mfg: Other | Process Air Compressor | New | end use | 1,766 | 5.9% | 0.01 | 10 | \$33 | 36% | 1.04 |
| FE-WPP | Refrigerated Cycling Dryers | Mfg: Other | Process Air Compressor | Early | end use | 1,766 | 1.7% | 0.00 | 10 | \$4.1 | 21% | 1.92 |
| FE-WPP | Refrigerated Cycling Dryers | Mfg: Other | Process Air Compressor | New | end use | 1,766 | 1.7% | 0.00 | 10 | \$4.1 | 21% | 1.92 |
| FE-WPP | Refrigerated Cycling Dryers | Mfg: Other | Process Air Compressor | ROB | end use | 1,766 | 1.7% | 0.00 | 10 | \$4.1 | 21% | 1.91 |
| FE-WPP | VFD Controlled Compressor | Mfg: Other | Process Air Compressor | Early | end use | 1,766 | 24% | 0.05 | 10 | \$174 | 28% | 0.82 |
| FE-WPP | VFD Controlled Compressor | Mfg: Other | Process Air Compressor | New | end use | 1,766 | 24% | 0.05 | 10 | \$174 | 28% | 0.82 |
| FE-WPP | VFD Controlled Compressor | Mfg: Other | Process Air Compressor | ROB | end use | 1,766 | 24% | 0.05 | 10 | \$174 | 28% | 0.82 |
| FE-WPP | Zero Loss Condensate Drain | Mfg: Other | Process Air Compressor | Early | end use | 1,766 | 1.9% | 0.00 | 10 | \$10 | 36% | 1.05 |
| FE-WPP | Zero Loss Condensate Drain | Mfg: Other | Process Air Compressor | New | end use | 1,766 | 1.9% | 0.00 | 10 | \$10 | 36% | 1.05 |
| FE-WPP | Zero Loss Condensate Drain | Mfg: Other | Process Air Compressor | ROB | end use | 1,766 | 1.9% | 0.00 | 10 | \$10 | 36% | 1.05 |
| FE-WPP | Cooling Tower Optimization | Mfg: Other | Process Cooling | Existing | building | 17,384 | 20% | 1.24 | 10 | \$107 | 15% | 4.90 |
| FE-WPP | Equipment: Chillers | Mfg: Other | Process Cooling | Early | end use | 25,722 | 18% | 0.96 | 15 | \$1,207 | 46% | 1.77 |
| FE-WPP | Equipment: Chillers | Mfg: Other | Process Cooling | New | end use | 25,722 | 18% | 0.96 | 15 | \$1,207 | 46% | 1.77 |
| FE-WPP | Equipment: Chillers | Mfg: Other | Process Cooling | ROB | end use | 25,722 | 18% | 0.96 | 15 | \$1,207 | 46% | 1.77 |
| FE-WPP | Facility Energy Management | Mfg: Other | Process Cooling | Existing | end use | 25,722 | 1.9% | 0.10 | 2 | \$9.9 | 59% | 1.17 |
| FE-WPP | Facility Energy Management | Mfg: Other | Process Cooling | New | end use | 25,722 | 1.9% | 0.10 | 2 | \$9.9 | 59% | 1.17 |
| FE-WPP | Improved Controls - Process Cooling | Mfg: Other | Process Cooling | Existing | end use | 25,722 | 6.0% | 0.32 | 10 | \$1,358 | 56% | 0.45 |
| FE-WPP | Improved Controls - Process Cooling | Mfg: Other | Process Cooling | New | end use | 25,722 | 6.0% | 0.32 | 10 | \$1,358 | 56% | 0.45 |
| FE-WPP | VFD on Cooling Tower Fan | Mfg: Other | Process Cooling | Early | motor | 17,384 | 21% | 1.10 | 15 | \$803 | 20% | 2.23 |
| FE-WPP | VFD on Cooling Tower Fan | Mfg: Other | Process Cooling | New | motor | 17,384 | 22% | 1.10 | 15 | \$818 | 20% | 2.22 |
| FE-WPP | VFD on Cooling Tower Fan | Mfg: Other | Process Cooling | ROB | motor | 17,384 | 22% | 1.10 | 15 | \$818 | 20% | 2.22 |
| FE-WPP | Improved Controls - Process Heating | Mfg: Other | Process Heating | Existing | end use | 88,059 | 17% | 2.07 | 10 | \$1,012 | 77% | 2.89 |
| FE-WPP | Improved Controls - Process Heating | Mfg: Other | Process Heating | New | end use | 88,059 | 17% | 2.07 | 10 | \$1,012 | 77% | 2.89 |
| FE-WPP | Process Heat O&M | Mfg: Other | Process Heating | Existing | end use | 88,059 | 16% | 1.96 | 2 | \$611 | 77% | 0.88 |
| FE-WPP | Process Heat O&M | Mfg: Other | Process Heating | New | end use | 88,059 | 16% | 1.96 | 2 | \$611 | 77% | 0.88 |
| FE-WPP | Facility Energy Management | Mfg: Other | Process Other | Existing | end use | 16,558 | 1.9% | 0.04 | 2 | \$6.4 | 73% | 1.10 |
| FE-WPP | Facility Energy Management | Mfg: Other | Process Other | New | end use | 16,558 | 1.9% | 0.04 | 2 | \$6.4 | 73% | 1.10 |
| FE-WPP | Adjustable speed drive on compressors | Mfg: Other | Process Refrigeration | Early | end use | 13,213 | 12% | 0.23 | 10 | \$244 | 64% | 1.78 |
| FE-WPP | Adjustable speed drive on compressors | Mfg: Other | Process Refrigeration | New | end use | 13,213 | 12% | 0.23 | 10 | \$244 | 64% | 1.77 |
| FE-WPP | Adjustable speed drive on compressors | Mfg: Other | Process Refrigeration | ROB | end use | 13,213 | 12% | 0.23 | 10 | \$244 | 64% | 1.78 |
| FE-WPP | Cooling Tower Optimization | Mfg: Other | Process Refrigeration | Existing | building | 8,930 | 20% | 0.64 | 10 | \$55 | 15% | 4.90 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|--------------------------------------|------------|-----------------------|----------|---------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Optimization of operating parameters | Mfg: Other | Process Refrigeration | Existing | end use | 13,213 | 13% | 0.25 | 3 | \$107 | 57% | 1.11 |
| FE-WPP | Optimization of operating parameters | Mfg: Other | Process Refrigeration | New | end use | 13,213 | 13% | 0.25 | 3 | \$107 | 57% | 1.11 |
| FE-WPP | Synchronous Belts | Mfg: Other | Process Refrigeration | Early | end use | 13,213 | 1.2% | 0.02 | 10 | \$19 | 64% | 2.06 |
| FE-WPP | Synchronous Belts | Mfg: Other | Process Refrigeration | New | end use | 13,213 | 1.2% | 0.02 | 10 | \$19 | 64% | 2.06 |
| FE-WPP | Synchronous Belts | Mfg: Other | Process Refrigeration | ROB | end use | 13,213 | 1.2% | 0.02 | 10 | \$19 | 64% | 2.06 |
| FE-WPP | VFD on Cooling Tower Fan | Mfg: Other | Process Refrigeration | Early | motor | 8,930 | 21% | 0.56 | 15 | \$412 | 20% | 2.23 |
| FE-WPP | VFD on Cooling Tower Fan | Mfg: Other | Process Refrigeration | New | motor | 8,930 | 22% | 0.56 | 15 | \$420 | 20% | 2.22 |
| FE-WPP | VFD on Cooling Tower Fan | Mfg: Other | Process Refrigeration | ROB | motor | 8,930 | 22% | 0.56 | 15 | \$420 | 20% | 2.22 |
| FE-WPP | Facility Energy Management | Mfg: Other | Pumps | Existing | end use | 174,983 | 1.9% | 0.42 | 2 | \$67 | 73% | 1.13 |
| FE-WPP | Facility Energy Management | Mfg: Other | Pumps | New | end use | 174,983 | 1.9% | 0.42 | 2 | \$67 | 73% | 1.13 |
| FE-WPP | HE Motors | Mfg: Other | Pumps | Early | end use | 174,983 | 2.0% | 0.47 | 15 | \$1,042 | 77% | 1.53 |
| FE-WPP | HE Motors | Mfg: Other | Pumps | New | end use | 174,983 | 2.0% | 0.47 | 15 | \$1,042 | 77% | 1.53 |
| FE-WPP | HE Motors | Mfg: Other | Pumps | ROB | end use | 174,983 | 2.0% | 0.47 | 15 | \$1,042 | 77% | 1.53 |
| FE-WPP | Motor rewinds | Mfg: Other | Pumps | Existing | end use | 174,983 | 0.6% | 0.14 | 9 | \$249 | 12% | 1.23 |
| FE-WPP | Motor rewinds | Mfg: Other | Pumps | New | end use | 174,983 | 0.6% | 0.14 | 9 | \$249 | 12% | 1.23 |
| FE-WPP | Pump Equipment Upgrade | Mfg: Other | Pumps | Early | end use | 174,983 | 20% | 4.55 | 12 | \$4,375 | 86% | 2.34 |
| FE-WPP | Pump Equipment Upgrade | Mfg: Other | Pumps | New | end use | 174,983 | 20% | 4.55 | 12 | \$4,375 | 86% | 2.34 |
| FE-WPP | Pump Equipment Upgrade | Mfg: Other | Pumps | ROB | end use | 174,983 | 20% | 4.55 | 12 | \$4,375 | 86% | 2.34 |
| FE-WPP | Pump System Optimization | Mfg: Other | Pumps | Existing | end use | 174,983 | 8.7% | 1.98 | 12 | \$3,204 | 40% | 1.66 |
| FE-WPP | Pump System Optimization | Mfg: Other | Pumps | New | end use | 174,983 | 8.7% | 1.98 | 12 | \$3,204 | 40% | 1.66 |
| FE-WPP | Synchronous Belts | Mfg: Other | Pumps | Early | end use | 174,983 | 1.2% | 0.27 | 10 | \$258 | 64% | 2.03 |
| FE-WPP | Synchronous Belts | Mfg: Other | Pumps | New | end use | 174,983 | 1.2% | 0.27 | 10 | \$258 | 64% | 2.03 |
| FE-WPP | Synchronous Belts | Mfg: Other | Pumps | ROB | end use | 174,983 | 1.2% | 0.27 | 10 | \$258 | 64% | 2.03 |
| FE-WPP | Circulating Fans | Mfg: Paper | Fans | Early | end use | 1,226,772 | 5.0% | 7.30 | 10 | \$7,468 | 68% | 2.10 |
| FE-WPP | Circulating Fans | Mfg: Paper | Fans | New | end use | 1,226,772 | 5.0% | 7.30 | 10 | \$7,468 | 68% | 2.11 |
| FE-WPP | Circulating Fans | Mfg: Paper | Fans | ROB | end use | 1,226,772 | 5.0% | 7.30 | 10 | \$7,468 | 68% | 2.10 |
| FE-WPP | Efficient Centrifugal Fan | Mfg: Paper | Fans | Early | end use | 1,226,772 | 20% | 29.21 | 10 | \$44,610 | 68% | 1.60 |
| FE-WPP | Efficient Centrifugal Fan | Mfg: Paper | Fans | New | end use | 1,226,772 | 20% | 29.21 | 10 | \$44,610 | 68% | 1.60 |
| FE-WPP | Efficient Centrifugal Fan | Mfg: Paper | Fans | ROB | end use | 1,226,772 | 20% | 29.21 | 10 | \$44,610 | 68% | 1.60 |
| FE-WPP | Facility Energy Management | Mfg: Paper | Fans | Existing | end use | 1,226,772 | 1.9% | 2.69 | 2 | \$473 | 77% | 1.12 |
| FE-WPP | Facility Energy Management | Mfg: Paper | Fans | New | end use | 1,226,772 | 1.9% | 2.69 | 2 | \$473 | 77% | 1.12 |
| FE-WPP | Fan Equipment Upgrade | Mfg: Paper | Fans | Early | end use | 1,226,772 | 35% | 51.11 | 10 | \$36,803 | 68% | 2.59 |
| FE-WPP | Fan Equipment Upgrade | Mfg: Paper | Fans | New | end use | 1,226,772 | 35% | 51.11 | 10 | \$36,803 | 68% | 2.59 |
| FE-WPP | Fan Equipment Upgrade | Mfg: Paper | Fans | ROB | end use | 1,226,772 | 35% | 51.11 | 10 | \$36,803 | 68% | 2.59 |
| FE-WPP | Fan System Optimization | Mfg: Paper | Fans | Existing | end use | 1,226,772 | 7.3% | 10.71 | 10 | \$16,733 | 83% | 1.57 |
| FE-WPP | Fan System Optimization | Mfg: Paper | Fans | New | end use | 1,226,772 | 7.3% | 10.71 | 10 | \$16,733 | 83% | 1.57 |
| FE-WPP | HE Motors | Mfg: Paper | Fans | Early | end use | 1,226,772 | 2.0% | 2.99 | 15 | \$7,303 | 77% | 1.55 |
| FE-WPP | HE Motors | Mfg: Paper | Fans | New | end use | 1,226,772 | 2.0% | 2.99 | 15 | \$7,303 | 77% | 1.55 |
| FE-WPP | HE Motors | Mfg: Paper | Fans | ROB | end use | 1,226,772 | 2.0% | 2.99 | 15 | \$7,303 | 77% | 1.55 |
| FE-WPP | Improved Controls - Fans | Mfg: Paper | Fans | Existing | end use | 1,226,772 | 7.1% | 10.37 | 10 | \$4,756 | 88% | 3.23 |
| FE-WPP | Improved Controls - Fans | Mfg: Paper | Fans | New | end use | 1,226,772 | 7.1% | 10.37 | 10 | \$4,756 | 88% | 3.23 |
| FE-WPP | Paper: Premium Fan | Mfg: Paper | Fans | Early | end use | 1,226,772 | 20% | 29.21 | 10 | \$44,610 | 61% | 1.60 |
| FE-WPP | Paper: Premium Fan | Mfg: Paper | Fans | New | end use | 1,226,772 | 20% | 29.21 | 10 | \$44,610 | 61% | 1.60 |
| FE-WPP | Paper: Premium Fan | Mfg: Paper | Fans | ROB | end use | 1,226,772 | 20% | 29.21 | 10 | \$44,610 | 61% | 1.60 |
| FE-WPP | Properly Sized Fans | Mfg: Paper | Fans | Early | end use | 1,226,772 | 13% | 19.21 | 10 | \$25,126 | 41% | 1.79 |
| FE-WPP | Properly Sized Fans | Mfg: Paper | Fans | New | end use | 1,226,772 | 13% | 19.21 | 10 | \$25,126 | 41% | 1.79 |
| FE-WPP | Properly Sized Fans | Mfg: Paper | Fans | ROB | end use | 1,226,772 | 13% | 19.21 | 10 | \$25,126 | 41% | 1.79 |
| FE-WPP | Synchronous Belts | Mfg: Paper | Fans | Early | end use | 1,226,772 | 1.2% | 1.70 | 10 | \$1,808 | 41% | 2.05 |
| FE-WPP | Synchronous Belts | Mfg: Paper | Fans | New | end use | 1,226,772 | 1.2% | 1.70 | 10 | \$1,808 | 41% | 2.05 |
| FE-WPP | Synchronous Belts | Mfg: Paper | Fans | ROB | end use | 1,226,772 | 1.2% | 1.70 | 10 | \$1,808 | 41% | 2.05 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Paper | HVAC | Early | unit (ton) | 639,503 | 9.2% | 15.22 | 15 | \$116,546 | 28% | 0.31 |
| FE-WPP | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Paper | HVAC | New | unit (ton) | 639,503 | 4.1% | 6.84 | 15 | \$28,237 | 28% | 0.56 |
| FE-WPP | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Paper | HVAC | ROB | unit (ton) | 639,503 | 4.1% | 6.84 | 15 | \$28,237 | 28% | 0.56 |
| FE-WPP | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Paper | HVAC | Early | unit (ton) | 639,503 | 12% | 20.59 | 15 | \$137,395 | 28% | 0.36 |
| FE-WPP | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Paper | HVAC | New | unit (ton) | 639,503 | 7.7% | 12.76 | 15 | \$59,473 | 28% | 0.50 |
| FE-WPP | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Paper | HVAC | ROB | unit (ton) | 639,503 | 7.7% | 12.76 | 15 | \$59,473 | 28% | 0.50 |
| FE-WPP | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Paper | HVAC | Early | unit (ton) | 639,503 | 15% | 25.29 | 15 | \$158,245 | 29% | 0.38 |
| FE-WPP | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Paper | HVAC | New | unit (ton) | 639,503 | 11% | 17.95 | 15 | \$90,708 | 29% | 0.47 |
| FE-WPP | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Paper | HVAC | ROB | unit (ton) | 639,503 | 11% | 17.95 | 15 | \$90,708 | 29% | 0.47 |
| FE-WPP | >760k min 10.2 EER Air Conditioner | Mfg: Paper | HVAC | Early | unit (ton) | 639,503 | 2.1% | 3.52 | 15 | \$202,957 | 35% | 0.04 |
| FE-WPP | >760k min 10.2 EER Air Conditioner | Mfg: Paper | HVAC | New | unit (ton) | 639,503 | 2.8% | 4.69 | 15 | \$18,343 | 35% | 0.59 |
| FE-WPP | >760k min 10.2 EER Air Conditioner | Mfg: Paper | HVAC | ROB | unit (ton) | 639,503 | 2.8% | 4.69 | 15 | \$18,343 | 35% | 0.59 |
| FE-WPP | 135-240k min 12 EER Air Conditioner | Mfg: Paper | HVAC | Early | unit (ton) | 639,503 | 10% | 17.36 | 15 | \$219,770 | 35% | 0.19 |
| FE-WPP | 135-240k min 12 EER Air Conditioner | Mfg: Paper | HVAC | New | unit (ton) | 639,503 | 5.8% | 9.57 | 15 | \$25,950 | 35% | 0.83 |
| FE-WPP | 135-240k min 12 EER Air Conditioner | Mfg: Paper | HVAC | ROB | unit (ton) | 639,503 | 5.8% | 9.57 | 15 | \$25,950 | 35% | 0.83 |
| FE-WPP | 240k-760k min 11 EER Air Conditioner | Mfg: Paper | HVAC | Early | unit (ton) | 639,503 | 5.2% | 8.65 | 15 | \$203,084 | 35% | 0.10 |
| FE-WPP | 240k-760k min 11 EER Air Conditioner | Mfg: Paper | HVAC | New | unit (ton) | 639,503 | 5.3% | 8.86 | 15 | \$21,757 | 35% | 0.91 |
| FE-WPP | 240k-760k min 11 EER Air Conditioner | Mfg: Paper | HVAC | ROB | unit (ton) | 639,503 | 5.3% | 8.86 | 15 | \$21,757 | 35% | 0.91 |
| FE-WPP | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Paper | HVAC | Early | unit (ton) | 639,503 | 9.7% | 16.10 | 15 | \$225,026 | 35% | 0.17 |
| FE-WPP | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Paper | HVAC | New | unit (ton) | 639,503 | 3.8% | 6.38 | 15 | \$32,106 | 35% | 0.47 |
| FE-WPP | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Paper | HVAC | ROB | unit (ton) | 639,503 | 3.8% | 6.38 | 15 | \$32,106 | 35% | 0.47 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Mfg: Paper | HVAC | Existing | building | 639,503 | 5.9% | 9.50 | 15 | \$1,937,593 | 71% | 0.01 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Mfg: Paper | HVAC | New | building | 639,503 | 3.7% | 5.96 | 15 | \$1,841,736 | 94% | 0.01 |
| FE-WPP | Chiller Tuneup/Diagnostics | Mfg: Paper | HVAC | Existing | building | 639,503 | 8.0% | 18.76 | 10 | \$1,632,937 | 59% | 0.02 |
| FE-WPP | Chiller Tuneup/Diagnostics | Mfg: Paper | HVAC | New | building | 639,503 | 8.0% | 18.79 | 10 | \$1,632,937 | 59% | 0.02 |
| FE-WPP | Cooling Tower Optimization | Mfg: Paper | HVAC | Existing | building | 639,503 | 20% | 45.78 | 10 | \$3,922 | 69% | 5.07 |
| FE-WPP | Duct Insulation, Add R8 | Mfg: Paper | HVAC | Existing | building | 639,503 | 1.5% | 2.05 | 15 | \$5,080 | 18% | 1.05 |
| FE-WPP | Duct Insulation, Add R8 | Mfg: Paper | HVAC | New | building | 639,503 | 1.5% | 2.05 | 15 | \$5,080 | 9% | 1.05 |
| FE-WPP | Ductless Heat Pump | Mfg: Paper | HVAC | Early | heat pump | 639,503 | 0.8% | 1.19 | 15 | \$50,559 | 83% | 0.06 |
| FE-WPP | Ductless Heat Pump | Mfg: Paper | HVAC | New | heat pump | 639,503 | 0.4% | 0.63 | 15 | \$14,682 | 83% | 0.12 |
| FE-WPP | Ductless Heat Pump | Mfg: Paper | HVAC | ROB | heat pump | 639,503 | 0.4% | 0.63 | 15 | \$14,682 | 83% | 0.12 |
| FE-WPP | DX Coil Cleaning | Mfg: Paper | HVAC | Existing | building | 639,503 | 13% | 29.34 | 1 | \$6,130 | 73% | 0.45 |
| FE-WPP | DX Coil Cleaning | Mfg: Paper | HVAC | New | building | 639,503 | 13% | 29.33 | 1 | \$6,130 | 73% | 0.45 |
| FE-WPP | Efficient Unit Heating System | Mfg: Paper | HVAC | Early | heater | 639,503 | 6.9% | 0.37 | 15 | \$34,524 | 83% | 0.59 |
| FE-WPP | Efficient Unit Heating System | Mfg: Paper | HVAC | New | heater | 639,503 | 4.0% | 0.21 | 15 | \$23,549 | 83% | 0.50 |
| FE-WPP | Efficient Unit Heating System | Mfg: Paper | HVAC | ROB | heater | 639,503 | 4.0% | 0.21 | 15 | \$23,549 | 83% | 0.50 |
| FE-WPP | Ground Source Heat Pump (Closed Loop) | Mfg: Paper | HVAC | Early | heat pump | 639,503 | 1.3% | 1.86 | 15 | \$104,981 | 19% | 0.05 |
| FE-WPP | Ground Source Heat Pump (Closed Loop) | Mfg: Paper | HVAC | New | heat pump | 639,503 | 1.0% | 1.46 | 15 | \$41,450 | 19% | 0.10 |
| FE-WPP | Ground Source Heat Pump (Closed Loop) | Mfg: Paper | HVAC | ROB | heat pump | 639,503 | 1.0% | 1.46 | 15 | \$41,450 | 19% | 0.10 |
| FE-WPP | Ground Source Heat Pump (Open Loop) | Mfg: Paper | HVAC | Early | heat pump | 639,503 | 1.3% | 1.86 | 15 | \$67,236 | 19% | 0.08 |
| FE-WPP | Ground Source Heat Pump (Open Loop) | Mfg: Paper | HVAC | New | heat pump | 639,503 | 1.0% | 1.46 | 15 | \$1,425 | 19% | 2.16 |
| FE-WPP | Ground Source Heat Pump (Open Loop) | Mfg: Paper | HVAC | ROB | heat pump | 639,503 | 1.0% | 1.46 | 15 | \$1,425 | 19% | 2.16 |
| FE-WPP | HE Air Cooled Chiller, 100 Tons | Mfg: Paper | HVAC | Early | unit (ton) | 639,503 | 1.5% | 2.10 | 15 | \$743,911 | 89% | 0.01 |
| FE-WPP | HE Air Cooled Chiller, 100 Tons | Mfg: Paper | HVAC | New | unit (ton) | 639,503 | 0.4% | 0.59 | 15 | \$108,374 | 89% | 0.02 |
| FE-WPP | HE Air Cooled Chiller, 100 Tons | Mfg: Paper | HVAC | ROB | unit (ton) | 639,503 | 0.4% | 0.59 | 15 | \$108,374 | 89% | 0.02 |
| FE-WPP | HE Air Cooled Chiller, 150 Tons | Mfg: Paper | HVAC | Early | unit (ton) | 639,503 | 1.4% | 2.07 | 15 | \$642,573 | 89% | 0.01 |
| FE-WPP | HE Air Cooled Chiller, 150 Tons | Mfg: Paper | HVAC | New | unit (ton) | 639,503 | 0.3% | 0.43 | 15 | \$53,222 | 89% | 0.02 |
| FE-WPP | HE Air Cooled Chiller, 150 Tons | Mfg: Paper | HVAC | ROB | unit (ton) | 639,503 | 0.3% | 0.43 | 15 | \$53,222 | 89% | 0.02 |
| FE-WPP | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Paper | HVAC | Early | heat pump | 639,503 | 1.4% | 1.96 | 12 | \$27,405 | 81% | 0.16 |
| FE-WPP | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Paper | HVAC | Early | heat pump | 639,503 | 1.1% | 1.62 | 12 | \$20,022 | 81% | 0.18 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|------------|----------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Paper | HVAC | New | heat pump | 639,503 | 1.0% | 1.46 | 12 | \$12,235 | 81% | 0.26 |
| FE-WPP | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Paper | HVAC | New | heat pump | 639,503 | 0.8% | 1.09 | 12 | \$4,277 | 81% | 0.54 |
| FE-WPP | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Paper | HVAC | ROB | heat pump | 639,503 | 1.0% | 1.46 | 12 | \$12,235 | 81% | 0.26 |
| FE-WPP | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Paper | HVAC | ROB | heat pump | 639,503 | 0.8% | 1.09 | 12 | \$4,277 | 81% | 0.54 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Paper | HVAC | Early | unit (ton) | 639,503 | 1.6% | 2.29 | 15 | \$59,025 | 89% | 0.11 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Paper | HVAC | New | unit (ton) | 639,503 | 0.9% | 1.32 | 15 | \$19,631 | 89% | 0.18 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Paper | HVAC | ROB | unit (ton) | 639,503 | 0.9% | 1.32 | 15 | \$19,631 | 89% | 0.18 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Paper | HVAC | Early | unit (ton) | 639,503 | 1.4% | 2.02 | 15 | \$57,647 | 89% | 0.10 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Paper | HVAC | New | unit (ton) | 639,503 | 1.0% | 1.42 | 15 | \$11,257 | 89% | 0.34 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Paper | HVAC | ROB | unit (ton) | 639,503 | 1.4% | 2.02 | 15 | \$10,341 | 89% | 0.51 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Paper | HVAC | Early | unit (ton) | 639,503 | 1.4% | 2.00 | 15 | \$68,229 | 89% | 0.08 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Paper | HVAC | New | unit (ton) | 639,503 | 0.9% | 1.28 | 15 | \$28,726 | 89% | 0.12 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Paper | HVAC | ROB | unit (ton) | 639,503 | 1.4% | 2.00 | 15 | \$25,999 | 89% | 0.21 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Paper | HVAC | Early | unit (ton) | 639,503 | 1.4% | 2.00 | 15 | \$65,722 | 89% | 0.08 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Paper | HVAC | New | unit (ton) | 639,503 | 0.9% | 1.28 | 15 | \$24,970 | 89% | 0.14 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Paper | HVAC | ROB | unit (ton) | 639,503 | 1.4% | 2.00 | 15 | \$22,600 | 89% | 0.24 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Paper | HVAC | Early | unit (ton) | 639,503 | 1.8% | 2.59 | 15 | \$70,817 | 89% | 0.10 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Paper | HVAC | New | unit (ton) | 639,503 | 0.5% | 0.79 | 15 | \$43,851 | 89% | 0.05 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Paper | HVAC | ROB | unit (ton) | 639,503 | 1.8% | 2.59 | 15 | \$34,050 | 89% | 0.21 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Paper | HVAC | Early | unit (ton) | 639,503 | 2.1% | 3.08 | 15 | \$65,137 | 89% | 0.13 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Paper | HVAC | New | unit (ton) | 639,503 | 0.8% | 1.11 | 15 | \$26,137 | 89% | 0.12 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Paper | HVAC | ROB | unit (ton) | 639,503 | 0.8% | 1.11 | 15 | \$26,137 | 89% | 0.12 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Paper | HVAC | Early | unit (ton) | 639,503 | 2.4% | 3.46 | 15 | \$55,206 | 89% | 0.17 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Paper | HVAC | New | unit (ton) | 639,503 | 0.9% | 1.29 | 15 | \$13,891 | 89% | 0.25 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Paper | HVAC | ROB | unit (ton) | 639,503 | 2.4% | 3.46 | 15 | \$9,904 | 89% | 0.87 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Paper | HVAC | Early | unit (ton) | 639,503 | 1.8% | 2.61 | 15 | \$54,650 | 89% | 0.13 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Paper | HVAC | New | unit (ton) | 639,503 | 0.7% | 0.98 | 15 | \$15,303 | 89% | 0.17 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Paper | HVAC | ROB | unit (ton) | 639,503 | 1.8% | 2.61 | 15 | \$12,124 | 89% | 0.56 |
| FE-WPP | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Paper | HVAC | Existing | building | 639,503 | 2.9% | 3.76 | 5 | \$6,785 | 55% | 0.58 |
| FE-WPP | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Paper | HVAC | New | building | 639,503 | 0.6% | 1.49 | 5 | \$4,071 | 51% | 0.28 |
| FE-WPP | Improved Controls - HVAC | Mfg: Paper | HVAC | Existing | end use | 252,358 | 21% | 7.57 | 10 | \$2,653 | 76% | 3.46 |
| FE-WPP | Improved Controls - HVAC | Mfg: Paper | HVAC | New | end use | 252,358 | 21% | 7.57 | 10 | \$2,653 | 76% | 3.46 |
| FE-WPP | Outside Air Economizer | Mfg: Paper | HVAC | Existing | building | 639,503 | 1.1% | 1.79 | 10 | \$2,349,654 | 82% | 0.00 |
| FE-WPP | Outside Air Economizer | Mfg: Paper | HVAC | New | building | 639,503 | 1.1% | 1.79 | 10 | \$2,349,654 | 82% | 0.00 |
| FE-WPP | Recommissioning | Mfg: Paper | HVAC | Existing | end use | 252,358 | 5.0% | 1.81 | 10 | \$346 | 88% | 4.27 |
| FE-WPP | Recommissioning | Mfg: Paper | HVAC | New | end use | 252,358 | 5.0% | 1.81 | 10 | \$346 | 88% | 4.27 |
| FE-WPP | Room AC (with louvered sides) | Mfg: Paper | HVAC | Early | unit (ton) | 639,503 | 7.7% | 11.11 | 9 | \$50,146 | 78% | 0.39 |
| FE-WPP | Room AC (with louvered sides) | Mfg: Paper | HVAC | New | unit (ton) | 639,503 | 2.6% | 3.70 | 9 | \$2,746 | 78% | 1.77 |
| FE-WPP | Room AC (with louvered sides) | Mfg: Paper | HVAC | ROB | unit (ton) | 639,503 | 2.6% | 3.70 | 9 | \$2,746 | 78% | 1.77 |
| FE-WPP | Variable Refrigerant Flow Heat Pump | Mfg: Paper | HVAC | New | measure | 639,503 | 0.1% | 0.16 | 13 | \$4,708 | 43% | 0.09 |
| FE-WPP | Variable Refrigerant Flow Heat Pump | Mfg: Paper | HVAC | ROB | measure | 639,503 | 0.1% | 0.17 | 13 | \$4,708 | 43% | 0.09 |
| FE-WPP | VFD on Cooling Tower Fan | Mfg: Paper | HVAC | Early | motor | 639,503 | 21% | 40.33 | 15 | \$29,530 | 15% | 2.32 |
| FE-WPP | VFD on Cooling Tower Fan | Mfg: Paper | HVAC | New | motor | 639,503 | 22% | 40.33 | 15 | \$30,093 | 15% | 2.31 |
| FE-WPP | VFD on Cooling Tower Fan | Mfg: Paper | HVAC | ROB | motor | 639,503 | 22% | 40.33 | 15 | \$30,093 | 15% | 2.31 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Mfg: Paper | HVAC | Existing | building | 639,503 | 19% | 30.58 | 15 | \$454,920 | 26% | 0.17 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Mfg: Paper | HVAC | New | building | 639,503 | 0.6% | 0.98 | 15 | \$348,945 | 94% | 0.01 |
| FE-WPP | Water Source Heat Pump (4 ton) | Mfg: Paper | HVAC | Early | heat pump | 639,503 | 1.5% | 2.21 | 15 | \$108,713 | 28% | 0.06 |
| FE-WPP | Water Source Heat Pump (4 ton) | Mfg: Paper | HVAC | New | heat pump | 639,503 | 1.1% | 1.62 | 15 | \$52,984 | 28% | 0.08 |
| FE-WPP | Water Source Heat Pump (4 ton) | Mfg: Paper | HVAC | ROB | heat pump | 639,503 | 1.1% | 1.62 | 15 | \$52,984 | 28% | 0.08 |
| FE-WPP | Efficient Metal Halide (High Bay) | Mfg: Paper | Lighting | Early | end use | 649,473 | 42% | 0.00 | 9 | \$101,488 | 53% | 0.73 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---------------------------------------|------------|----------|----------|---------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Efficient Metal Halide (High Bay) | Mfg: Paper | Lighting | New | end use | 649,473 | 41% | 0.00 | 13 | \$2,710,773 | 61% | 0.04 |
| FE-WPP | Efficient Metal Halide (High Bay) | Mfg: Paper | Lighting | ROB | end use | 649,473 | 41% | 0.00 | 13 | \$2,071,723 | 61% | 0.06 |
| FE-WPP | Induction (High Bay) | Mfg: Paper | Lighting | Early | end use | 649,473 | 94% | 0.00 | 13 | \$301,970 | 95% | 0.77 |
| FE-WPP | Induction (High Bay) | Mfg: Paper | Lighting | New | end use | 649,473 | 94% | 0.00 | 13 | \$282,719 | 95% | 0.81 |
| FE-WPP | Induction (High Bay) | Mfg: Paper | Lighting | ROB | end use | 649,473 | 94% | 0.00 | 13 | \$214,876 | 95% | 1.02 |
| FE-WPP | LED (High Bay) | Mfg: Paper | Lighting | Early | end use | 649,473 | 69% | 0.00 | 14 | \$355,463 | 95% | 0.53 |
| FE-WPP | LED (High Bay) | Mfg: Paper | Lighting | New | end use | 649,473 | 55% | 0.00 | 14 | \$394,554 | 95% | 0.39 |
| FE-WPP | LED (High Bay) | Mfg: Paper | Lighting | ROB | end use | 649,473 | 59% | 0.00 | 14 | \$259,965 | 95% | 0.61 |
| FE-WPP | Lighting Controls | Mfg: Paper | Lighting | Existing | end use | 649,473 | 20% | 0.00 | 6 | \$2,434,796 | 16% | 0.01 |
| FE-WPP | Lighting Controls | Mfg: Paper | Lighting | New | end use | 649,473 | 12% | 0.00 | 10 | \$3,239,073 | 11% | 0.01 |
| FE-WPP | Linear Fluorescent (High Bay) | Mfg: Paper | Lighting | Early | end use | 649,473 | 17% | 0.00 | 14 | \$74,314 | 98% | 0.61 |
| FE-WPP | Linear Fluorescent (High Bay) | Mfg: Paper | Lighting | New | end use | 649,473 | 13% | 0.00 | 14 | \$23,567 | 91% | 1.29 |
| FE-WPP | Linear Fluorescent (High Bay) | Mfg: Paper | Lighting | ROB | end use | 649,473 | 13% | 0.00 | 14 | \$15,088 | 91% | 1.87 |
| FE-WPP | Metal Halide (High Bay) | Mfg: Paper | Lighting | Early | end use | 649,473 | 62% | 0.00 | 13 | \$446,471 | 38% | 0.37 |
| FE-WPP | Metal Halide (High Bay) | Mfg: Paper | Lighting | New | end use | 649,473 | 73% | 0.00 | 13 | \$106,745 | 38% | 1.46 |
| FE-WPP | Metal Halide (High Bay) | Mfg: Paper | Lighting | ROB | end use | 649,473 | 73% | 0.00 | 13 | \$81,126 | 38% | 1.78 |
| FE-WPP | Screw Base CFL | Mfg: Paper | Lighting | Early | end use | 649,473 | 80% | 0.00 | 7 | \$176,447 | 17% | 0.64 |
| FE-WPP | Screw Base CFL | Mfg: Paper | Lighting | New | end use | 649,473 | 73% | 0.00 | 9 | \$144,200 | 18% | 0.86 |
| FE-WPP | Screw Base CFL | Mfg: Paper | Lighting | ROB | end use | 649,473 | 73% | 0.00 | 9 | \$120,695 | 17% | 0.99 |
| FE-WPP | Screw Base LED | Mfg: Paper | Lighting | Early | end use | 649,473 | 76% | 0.00 | 9 | \$108,287 | 21% | 1.15 |
| FE-WPP | Screw Base LED | Mfg: Paper | Lighting | New | end use | 649,473 | 77% | 0.00 | 9 | \$60,323 | 20% | 1.75 |
| FE-WPP | Screw Base LED | Mfg: Paper | Lighting | ROB | end use | 649,473 | 77% | 0.00 | 9 | \$47,888 | 21% | 2.01 |
| FE-WPP | T8 High Performance Linear Florescent | Mfg: Paper | Lighting | Early | end use | 649,473 | 36% | 0.00 | 14 | \$62,150 | 71% | 1.37 |
| FE-WPP | T8 High Performance Linear Florescent | Mfg: Paper | Lighting | New | end use | 649,473 | 26% | 0.00 | 14 | \$22,235 | 76% | 2.31 |
| FE-WPP | T8 High Performance Linear Florescent | Mfg: Paper | Lighting | ROB | end use | 649,473 | 26% | 0.00 | 14 | \$16,900 | 76% | 2.73 |
| FE-WPP | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Paper | Motors | Early | end use | 387,310 | 0.9% | 0.50 | 15 | \$5,917 | 81% | 0.32 |
| FE-WPP | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Paper | Motors | New | end use | 387,310 | 0.9% | 0.50 | 15 | \$5,917 | 81% | 0.32 |
| FE-WPP | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Paper | Motors | ROB | end use | 387,310 | 0.9% | 0.50 | 15 | \$5,917 | 81% | 0.32 |
| FE-WPP | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Paper | Motors | Early | end use | 387,310 | 0.8% | 0.41 | 15 | \$3,593 | 73% | 0.43 |
| FE-WPP | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Paper | Motors | New | end use | 387,310 | 0.7% | 0.41 | 15 | \$3,593 | 73% | 0.43 |
| FE-WPP | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Paper | Motors | ROB | end use | 387,310 | 0.7% | 0.41 | 15 | \$3,593 | 73% | 0.42 |
| FE-WPP | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Paper | Motors | Early | end use | 387,310 | 0.5% | 0.25 | 15 | \$1,377 | 81% | 0.67 |
| FE-WPP | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Paper | Motors | New | end use | 387,310 | 0.5% | 0.25 | 15 | \$1,377 | 81% | 0.67 |
| FE-WPP | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Paper | Motors | ROB | end use | 387,310 | 0.5% | 0.25 | 15 | \$1,377 | 81% | 0.66 |
| FE-WPP | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Paper | Motors | Early | end use | 387,310 | 0.4% | 0.22 | 15 | \$454 | 73% | 1.52 |
| FE-WPP | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Paper | Motors | New | end use | 387,310 | 0.4% | 0.22 | 15 | \$454 | 73% | 1.52 |
| FE-WPP | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Paper | Motors | ROB | end use | 387,310 | 0.4% | 0.22 | 15 | \$454 | 73% | 1.57 |
| FE-WPP | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Paper | Motors | Early | end use | 387,310 | 0.9% | 0.51 | 15 | \$681 | 47% | 2.15 |
| FE-WPP | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Paper | Motors | New | end use | 387,310 | 0.9% | 0.51 | 15 | \$681 | 47% | 2.14 |
| FE-WPP | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Paper | Motors | ROB | end use | 387,310 | 0.9% | 0.51 | 15 | \$681 | 47% | 2.16 |
| FE-WPP | Facility Energy Management | Mfg: Paper | Motors | Existing | end use | 387,310 | 2.0% | 1.02 | 2 | \$149 | 77% | 1.12 |
| FE-WPP | Facility Energy Management | Mfg: Paper | Motors | New | end use | 387,310 | 1.9% | 1.02 | 2 | \$149 | 77% | 1.11 |
| FE-WPP | HE Motors | Mfg: Paper | Motors | Early | end use | 387,310 | 2.0% | 1.13 | 15 | \$2,306 | 38% | 1.55 |
| FE-WPP | HE Motors | Mfg: Paper | Motors | New | end use | 387,310 | 2.0% | 1.13 | 15 | \$2,306 | 38% | 1.55 |
| FE-WPP | HE Motors | Mfg: Paper | Motors | ROB | end use | 387,310 | 2.0% | 1.13 | 15 | \$2,306 | 38% | 1.55 |
| FE-WPP | High-Efficiency Ventilation System | Mfg: Paper | Motors | Early | end use | 387,310 | 5.7% | 3.13 | 10 | \$24,204 | 73% | 0.35 |
| FE-WPP | High-Efficiency Ventilation System | Mfg: Paper | Motors | New | end use | 387,310 | 5.7% | 3.13 | 10 | \$24,204 | 73% | 0.34 |
| FE-WPP | High-Efficiency Ventilation System | Mfg: Paper | Motors | ROB | end use | 387,310 | 5.7% | 3.13 | 10 | \$24,204 | 73% | 0.34 |
| FE-WPP | Improved Controls - Motors | Mfg: Paper | Motors | Existing | end use | 387,310 | 4.0% | 2.19 | 10 | \$1,683 | 73% | 2.24 |
| FE-WPP | Improved Controls - Motors | Mfg: Paper | Motors | New | end use | 387,310 | 4.0% | 2.19 | 10 | \$1,683 | 73% | 2.24 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|--|------------|------------------------|----------|---------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Material Handling | Mfg: Paper | Motors | Early | end use | 387,310 | 18% | 10.19 | 10 | \$18,722 | 77% | 1.21 |
| FE-WPP | Material Handling | Mfg: Paper | Motors | New | end use | 387,310 | 18% | 10.19 | 10 | \$18,722 | 77% | 1.21 |
| FE-WPP | Material Handling | Mfg: Paper | Motors | ROB | end use | 387,310 | 18% | 10.19 | 10 | \$18,722 | 77% | 1.21 |
| FE-WPP | Material Handling VFD | Mfg: Paper | Motors | Early | end use | 387,310 | 16% | 8.92 | 10 | \$12,949 | 77% | 1.46 |
| FE-WPP | Material Handling VFD | Mfg: Paper | Motors | New | end use | 387,310 | 16% | 8.92 | 10 | \$12,949 | 77% | 1.46 |
| FE-WPP | Material Handling VFD | Mfg: Paper | Motors | ROB | end use | 387,310 | 16% | 8.92 | 10 | \$12,949 | 77% | 1.46 |
| FE-WPP | Motor Management Plan | Mfg: Paper | Motors | Existing | end use | 387,310 | 2.9% | 1.60 | 10 | \$790 | 73% | 2.87 |
| FE-WPP | Motor Management Plan | Mfg: Paper | Motors | New | end use | 387,310 | 2.9% | 1.60 | 10 | \$790 | 73% | 2.87 |
| FE-WPP | Motors Other | Mfg: Paper | Motors | Existing | end use | 387,310 | 1.1% | 0.61 | 15 | \$77 | 83% | 6.32 |
| FE-WPP | Motors Other | Mfg: Paper | Motors | New | end use | 387,310 | 1.1% | 0.61 | 15 | \$77 | 83% | 6.32 |
| FE-WPP | Motors: Rewind 101-200 HP | Mfg: Paper | Motors | Existing | end use | 387,310 | 0.6% | 0.31 | 10 | \$489 | 27% | 1.36 |
| FE-WPP | Motors: Rewind 101-200 HP | Mfg: Paper | Motors | New | end use | 387,310 | 0.6% | 0.31 | 10 | \$489 | 27% | 1.38 |
| FE-WPP | Motors: Rewind 201-500 HP | Mfg: Paper | Motors | Existing | end use | 387,310 | 0.6% | 0.30 | 8 | \$308 | 27% | 1.61 |
| FE-WPP | Motors: Rewind 201-500 HP | Mfg: Paper | Motors | New | end use | 387,310 | 0.6% | 0.30 | 8 | \$308 | 27% | 1.61 |
| FE-WPP | Motors: Rewind 20-50 HP | Mfg: Paper | Motors | Existing | end use | 387,310 | 1.0% | 0.57 | 11 | \$1,438 | 42% | 1.03 |
| FE-WPP | Motors: Rewind 20-50 HP | Mfg: Paper | Motors | New | end use | 387,310 | 1.0% | 0.57 | 11 | \$1,438 | 42% | 1.02 |
| FE-WPP | Motors: Rewind 500+ HP | Mfg: Paper | Motors | Existing | end use | 387,310 | 0.6% | 0.31 | 8 | \$220 | 11% | 2.00 |
| FE-WPP | Motors: Rewind 500+ HP | Mfg: Paper | Motors | New | end use | 387,310 | 0.6% | 0.31 | 8 | \$220 | 11% | 2.01 |
| FE-WPP | Motors: Rewind 51-100 HP | Mfg: Paper | Motors | Existing | end use | 387,310 | 0.6% | 0.33 | 9 | \$710 | 42% | 1.02 |
| FE-WPP | Motors: Rewind 51-100 HP | Mfg: Paper | Motors | New | end use | 387,310 | 0.6% | 0.33 | 9 | \$710 | 42% | 1.00 |
| FE-WPP | Paper: Large Material Handling | Mfg: Paper | Motors | Early | end use | 387,310 | 9.7% | 5.39 | 10 | \$29,013 | 64% | 0.48 |
| FE-WPP | Paper: Large Material Handling | Mfg: Paper | Motors | New | end use | 387,310 | 9.7% | 5.39 | 10 | \$29,013 | 64% | 0.48 |
| FE-WPP | Paper: Large Material Handling | Mfg: Paper | Motors | ROB | end use | 387,310 | 9.7% | 5.39 | 10 | \$29,013 | 64% | 0.48 |
| FE-WPP | Paper: Material Handling | Mfg: Paper | Motors | Early | end use | 387,310 | 13% | 7.26 | 10 | \$32,640 | 64% | 0.57 |
| FE-WPP | Paper: Material Handling | Mfg: Paper | Motors | New | end use | 387,310 | 13% | 7.26 | 10 | \$32,640 | 64% | 0.57 |
| FE-WPP | Paper: Material Handling | Mfg: Paper | Motors | ROB | end use | 387,310 | 13% | 7.26 | 10 | \$32,640 | 64% | 0.57 |
| FE-WPP | Paper: Premium Control Large Material | Mfg: Paper | Motors | Existing | end use | 387,310 | 19% | 10.37 | 10 | \$31,914 | 69% | 0.79 |
| FE-WPP | Paper: Premium Control Large Material | Mfg: Paper | Motors | New | end use | 387,310 | 19% | 10.37 | 10 | \$31,914 | 69% | 0.79 |
| FE-WPP | Switch from Belt drive to Direct Drive | Mfg: Paper | Motors | Early | end use | 387,310 | 7.5% | 4.15 | 12 | \$6,214 | 30% | 1.63 |
| FE-WPP | Switch from Belt drive to Direct Drive | Mfg: Paper | Motors | New | end use | 387,310 | 7.5% | 4.15 | 12 | \$6,214 | 30% | 1.63 |
| FE-WPP | Switch from Belt drive to Direct Drive | Mfg: Paper | Motors | ROB | end use | 387,310 | 7.5% | 4.15 | 12 | \$6,214 | 30% | 1.63 |
| FE-WPP | Synchronous Belts | Mfg: Paper | Motors | Early | end use | 387,310 | 1.2% | 0.64 | 10 | \$571 | 30% | 2.05 |
| FE-WPP | Synchronous Belts | Mfg: Paper | Motors | New | end use | 387,310 | 1.2% | 0.64 | 10 | \$571 | 30% | 2.05 |
| FE-WPP | Synchronous Belts | Mfg: Paper | Motors | ROB | end use | 387,310 | 1.2% | 0.64 | 10 | \$571 | 30% | 2.05 |
| FE-WPP | Bldg Improvements | Mfg: Paper | Other | Existing | end use | 71,225 | 16% | 1.37 | 15 | \$1,553 | 72% | 2.66 |
| FE-WPP | Bldg Improvements | Mfg: Paper | Other | New | end use | 71,225 | 16% | 1.37 | 15 | \$1,553 | 72% | 2.66 |
| FE-WPP | Energy Project Management | Mfg: Paper | Other | Existing | end use | 71,225 | 29% | 2.46 | 11 | \$2,542 | 63% | 2.18 |
| FE-WPP | Energy Project Management | Mfg: Paper | Other | New | end use | 71,225 | 29% | 2.46 | 11 | \$2,542 | 63% | 2.18 |
| FE-WPP | Facility Energy Management | Mfg: Paper | Other | Existing | end use | 71,225 | 1.9% | 0.16 | 2 | \$27 | 76% | 1.09 |
| FE-WPP | Facility Energy Management | Mfg: Paper | Other | New | end use | 71,225 | 1.8% | 0.16 | 2 | \$27 | 76% | 1.09 |
| FE-WPP | Integrated Plant Energy Management | Mfg: Paper | Other | Existing | end use | 71,225 | 50% | 4.24 | 11 | \$7,020 | 48% | 1.57 |
| FE-WPP | Integrated Plant Energy Management | Mfg: Paper | Other | New | end use | 71,225 | 50% | 4.24 | 11 | \$7,020 | 48% | 1.57 |
| FE-WPP | Plant Energy Management | Mfg: Paper | Other | Existing | end use | 71,225 | 12% | 1.02 | 10 | \$179 | 55% | 4.32 |
| FE-WPP | Plant Energy Management | Mfg: Paper | Other | New | end use | 71,225 | 12% | 1.02 | 10 | \$179 | 55% | 4.32 |
| FE-WPP | Transformers | Mfg: Paper | Other | Early | end use | 71,225 | 1.6% | 0.14 | 15 | \$228 | 34% | 2.00 |
| FE-WPP | Transformers | Mfg: Paper | Other | New | end use | 71,225 | 1.6% | 0.14 | 15 | \$228 | 34% | 2.00 |
| FE-WPP | Transformers | Mfg: Paper | Other | ROB | end use | 71,225 | 1.6% | 0.14 | 15 | \$228 | 34% | 2.00 |
| FE-WPP | Air Compressor Demand Reduction | Mfg: Paper | Process Air Compressor | Existing | end use | 11,672 | 26% | 0.39 | 10 | \$175 | 40% | 3.10 |
| FE-WPP | Air Compressor Demand Reduction | Mfg: Paper | Process Air Compressor | New | end use | 11,672 | 26% | 0.39 | 10 | \$175 | 40% | 3.10 |
| FE-WPP | Air Compressor Equipment | Mfg: Paper | Process Air Compressor | Early | end use | 11,672 | 39% | 0.59 | 10 | \$212 | 56% | 3.40 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|-------------------------------------|------------|------------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Air Compressor Equipment | Mfg: Paper | Process Air Compressor | New | end use | 11,672 | 39% | 0.59 | 10 | \$212 | 56% | 3.40 |
| FE-WPP | Air Compressor Equipment | Mfg: Paper | Process Air Compressor | ROB | end use | 11,672 | 39% | 0.59 | 10 | \$212 | 56% | 3.40 |
| FE-WPP | Air Compressor Optimization | Mfg: Paper | Process Air Compressor | Existing | end use | 11,672 | 39% | 0.60 | 10 | \$509 | 42% | 2.20 |
| FE-WPP | Air Compressor Optimization | Mfg: Paper | Process Air Compressor | New | end use | 11,672 | 39% | 0.60 | 10 | \$509 | 42% | 2.20 |
| FE-WPP | Facility Energy Management | Mfg: Paper | Process Air Compressor | Existing | end use | 11,672 | 1.9% | 0.03 | 2 | \$4.5 | 50% | 1.10 |
| FE-WPP | Facility Energy Management | Mfg: Paper | Process Air Compressor | New | end use | 11,672 | 1.9% | 0.03 | 2 | \$4.5 | 50% | 1.10 |
| FE-WPP | HE Compressor motors | Mfg: Paper | Process Air Compressor | Early | end use | 11,672 | 1.1% | 0.02 | 15 | \$44 | 56% | 1.34 |
| FE-WPP | HE Compressor motors | Mfg: Paper | Process Air Compressor | New | end use | 11,672 | 1.1% | 0.02 | 15 | \$44 | 56% | 1.34 |
| FE-WPP | HE Compressor motors | Mfg: Paper | Process Air Compressor | ROB | end use | 11,672 | 1.1% | 0.02 | 15 | \$44 | 56% | 1.35 |
| FE-WPP | Improved Controls - Air Compressor | Mfg: Paper | Process Air Compressor | Existing | end use | 11,672 | 41% | 0.62 | 10 | \$208 | 19% | 3.49 |
| FE-WPP | Improved Controls - Air Compressor | Mfg: Paper | Process Air Compressor | New | end use | 11,672 | 41% | 0.62 | 10 | \$208 | 19% | 3.49 |
| FE-WPP | Low Pressure-drop Filters | Mfg: Paper | Process Air Compressor | Existing | end use | 11,672 | 1.8% | 0.03 | 10 | \$132 | 46% | 0.58 |
| FE-WPP | Low Pressure-drop Filters | Mfg: Paper | Process Air Compressor | New | end use | 11,672 | 1.8% | 0.03 | 10 | \$132 | 46% | 0.58 |
| FE-WPP | Outside Air Intake | Mfg: Paper | Process Air Compressor | Existing | end use | 11,672 | 1.4% | 0.02 | 10 | \$77 | 37% | 0.75 |
| FE-WPP | Outside Air Intake | Mfg: Paper | Process Air Compressor | New | end use | 11,672 | 1.4% | 0.02 | 10 | \$77 | 37% | 0.75 |
| FE-WPP | Receiver Capacity Addition | Mfg: Paper | Process Air Compressor | Existing | end use | 11,672 | 6.0% | 0.09 | 10 | \$217 | 28% | 1.04 |
| FE-WPP | Receiver Capacity Addition | Mfg: Paper | Process Air Compressor | New | end use | 11,672 | 5.9% | 0.09 | 10 | \$217 | 28% | 1.04 |
| FE-WPP | Refrigerated Cycling Dryers | Mfg: Paper | Process Air Compressor | Early | end use | 11,672 | 1.7% | 0.03 | 10 | \$27 | 16% | 1.92 |
| FE-WPP | Refrigerated Cycling Dryers | Mfg: Paper | Process Air Compressor | New | end use | 11,672 | 1.7% | 0.03 | 10 | \$27 | 16% | 1.92 |
| FE-WPP | Refrigerated Cycling Dryers | Mfg: Paper | Process Air Compressor | ROB | end use | 11,672 | 1.7% | 0.03 | 10 | \$27 | 16% | 1.93 |
| FE-WPP | VFD Controlled Compressor | Mfg: Paper | Process Air Compressor | Early | end use | 11,672 | 24% | 0.36 | 10 | \$1,149 | 22% | 0.82 |
| FE-WPP | VFD Controlled Compressor | Mfg: Paper | Process Air Compressor | New | end use | 11,672 | 24% | 0.36 | 10 | \$1,149 | 22% | 0.82 |
| FE-WPP | VFD Controlled Compressor | Mfg: Paper | Process Air Compressor | ROB | end use | 11,672 | 24% | 0.36 | 10 | \$1,149 | 22% | 0.82 |
| FE-WPP | Zero Loss Condensate Drain | Mfg: Paper | Process Air Compressor | Early | end use | 11,672 | 1.9% | 0.03 | 10 | \$67 | 28% | 1.05 |
| FE-WPP | Zero Loss Condensate Drain | Mfg: Paper | Process Air Compressor | New | end use | 11,672 | 1.9% | 0.03 | 10 | \$67 | 28% | 1.05 |
| FE-WPP | Zero Loss Condensate Drain | Mfg: Paper | Process Air Compressor | ROB | end use | 11,672 | 1.8% | 0.03 | 10 | \$67 | 28% | 1.05 |
| FE-WPP | Cooling Tower Optimization | Mfg: Paper | Process Cooling | Existing | building | 110,975 | 20% | 7.94 | 10 | \$681 | 15% | 4.90 |
| FE-WPP | Equipment: Chillers | Mfg: Paper | Process Cooling | Early | end use | 43,792 | 18% | 1.63 | 15 | \$2,055 | 46% | 1.77 |
| FE-WPP | Equipment: Chillers | Mfg: Paper | Process Cooling | New | end use | 43,792 | 18% | 1.63 | 15 | \$2,055 | 46% | 1.77 |
| FE-WPP | Equipment: Chillers | Mfg: Paper | Process Cooling | ROB | end use | 43,792 | 18% | 1.63 | 15 | \$2,055 | 46% | 1.77 |
| FE-WPP | Facility Energy Management | Mfg: Paper | Process Cooling | Existing | end use | 43,792 | 1.9% | 0.17 | 2 | \$17 | 59% | 1.17 |
| FE-WPP | Facility Energy Management | Mfg: Paper | Process Cooling | New | end use | 43,792 | 1.9% | 0.17 | 2 | \$17 | 59% | 1.17 |
| FE-WPP | Improved Controls - Process Cooling | Mfg: Paper | Process Cooling | Existing | end use | 43,792 | 6.0% | 0.55 | 10 | \$2,312 | 56% | 0.45 |
| FE-WPP | Improved Controls - Process Cooling | Mfg: Paper | Process Cooling | New | end use | 43,792 | 6.0% | 0.55 | 10 | \$2,312 | 56% | 0.45 |
| FE-WPP | VFD on Cooling Tower Fan | Mfg: Paper | Process Cooling | Early | motor | 110,975 | 21% | 7.00 | 15 | \$5,124 | 20% | 2.23 |
| FE-WPP | VFD on Cooling Tower Fan | Mfg: Paper | Process Cooling | New | motor | 110,975 | 22% | 7.00 | 15 | \$5,222 | 20% | 2.22 |
| FE-WPP | VFD on Cooling Tower Fan | Mfg: Paper | Process Cooling | ROB | motor | 110,975 | 22% | 7.00 | 15 | \$5,222 | 20% | 2.22 |
| FE-WPP | Improved Controls - Process Heating | Mfg: Paper | Process Heating | Existing | end use | 184,604 | 17% | 4.34 | 10 | \$2,121 | 77% | 2.89 |
| FE-WPP | Improved Controls - Process Heating | Mfg: Paper | Process Heating | New | end use | 184,604 | 17% | 4.34 | 10 | \$2,121 | 77% | 2.89 |
| FE-WPP | Process Heat O&M | Mfg: Paper | Process Heating | Existing | end use | 184,604 | 16% | 4.10 | 2 | \$1,282 | 77% | 0.88 |
| FE-WPP | Process Heat O&M | Mfg: Paper | Process Heating | New | end use | 184,604 | 16% | 4.10 | 2 | \$1,282 | 77% | 0.88 |
| FE-WPP | Facility Energy Management | Mfg: Paper | Process Other | Existing | end use | 92,607 | 1.9% | 0.24 | 2 | \$36 | 73% | 1.10 |
| FE-WPP | Facility Energy Management | Mfg: Paper | Process Other | New | end use | 92,607 | 1.9% | 0.24 | 2 | \$36 | 73% | 1.10 |
| FE-WPP | Kraft: Efficient Agitator | Mfg: Paper | Process Other | Early | end use | 92,607 | 50% | 6.50 | 10 | \$3,880 | 22% | 2.62 |
| FE-WPP | Kraft: Efficient Agitator | Mfg: Paper | Process Other | New | end use | 92,607 | 50% | 6.50 | 10 | \$3,880 | 22% | 2.62 |
| FE-WPP | Kraft: Efficient Agitator | Mfg: Paper | Process Other | ROB | end use | 92,607 | 50% | 6.50 | 10 | \$3,880 | 22% | 2.62 |
| FE-WPP | Kraft: Effluent Treatment System | Mfg: Paper | Process Other | Early | end use | 92,607 | 15% | 1.95 | 10 | \$1,031 | 22% | 2.79 |
| FE-WPP | Kraft: Effluent Treatment System | Mfg: Paper | Process Other | New | end use | 92,607 | 15% | 1.95 | 10 | \$1,031 | 22% | 2.79 |
| FE-WPP | Kraft: Effluent Treatment System | Mfg: Paper | Process Other | ROB | end use | 92,607 | 15% | 1.95 | 10 | \$1,031 | 22% | 2.79 |
| FE-WPP | Mech Pulp: Premium Process | Mfg: Paper | Process Other | Early | end use | 92,607 | 0.2% | 0.02 | 5 | \$18 | 31% | 1.27 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---------------------------------------|---------------|-----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Mech Pulp: Premium Process | Mfg: Paper | Process Other | New | end use | 92,607 | 0.2% | 0.02 | 5 | \$18 | 31% | 1.27 |
| FE-WPP | Mech Pulp: Premium Process | Mfg: Paper | Process Other | ROB | end use | 92,607 | 0.2% | 0.02 | 5 | \$18 | 31% | 1.26 |
| FE-WPP | Mech Pulp: Refiner Plate Improvement | Mfg: Paper | Process Other | Early | end use | 92,607 | 0.4% | 0.06 | 1 | \$15 | 31% | 0.52 |
| FE-WPP | Mech Pulp: Refiner Plate Improvement | Mfg: Paper | Process Other | New | end use | 92,607 | 0.4% | 0.06 | 1 | \$15 | 31% | 0.52 |
| FE-WPP | Mech Pulp: Refiner Plate Improvement | Mfg: Paper | Process Other | ROB | end use | 92,607 | 0.4% | 0.06 | 1 | \$15 | 31% | 0.52 |
| FE-WPP | Mech Pulp: Refiner Replacement | Mfg: Paper | Process Other | Early | end use | 92,607 | 10% | 1.30 | 12 | \$5,463 | 31% | 0.70 |
| FE-WPP | Mech Pulp: Refiner Replacement | Mfg: Paper | Process Other | New | end use | 92,607 | 10% | 1.30 | 12 | \$5,463 | 31% | 0.70 |
| FE-WPP | Mech Pulp: Refiner Replacement | Mfg: Paper | Process Other | ROB | end use | 92,607 | 10% | 1.30 | 12 | \$5,463 | 31% | 0.70 |
| FE-WPP | Paper: Efficient Pulp Screen | Mfg: Paper | Process Other | Early | end use | 92,607 | 15% | 1.95 | 10 | \$2,514 | 31% | 1.61 |
| FE-WPP | Paper: Efficient Pulp Screen | Mfg: Paper | Process Other | New | end use | 92,607 | 15% | 1.95 | 10 | \$2,514 | 31% | 1.61 |
| FE-WPP | Paper: Efficient Pulp Screen | Mfg: Paper | Process Other | ROB | end use | 92,607 | 15% | 1.95 | 10 | \$2,514 | 31% | 1.61 |
| FE-WPP | Adjustable speed drive on compressors | Mfg: Paper | Process Refrigeration | Early | end use | 22,496 | 12% | 0.38 | 10 | \$416 | 30% | 1.77 |
| FE-WPP | Adjustable speed drive on compressors | Mfg: Paper | Process Refrigeration | New | end use | 22,496 | 12% | 0.38 | 10 | \$416 | 30% | 1.77 |
| FE-WPP | Adjustable speed drive on compressors | Mfg: Paper | Process Refrigeration | ROB | end use | 22,496 | 12% | 0.38 | 10 | \$416 | 30% | 1.78 |
| FE-WPP | Cooling Tower Optimization | Mfg: Paper | Process Refrigeration | Existing | building | 57,007 | 20% | 4.08 | 10 | \$350 | 15% | 4.90 |
| FE-WPP | Optimization of operating parameters | Mfg: Paper | Process Refrigeration | Existing | end use | 22,496 | 13% | 0.43 | 3 | \$182 | 27% | 1.11 |
| FE-WPP | Optimization of operating parameters | Mfg: Paper | Process Refrigeration | New | end use | 22,496 | 13% | 0.43 | 3 | \$182 | 27% | 1.11 |
| FE-WPP | Synchronous Belts | Mfg: Paper | Process Refrigeration | Early | end use | 22,496 | 1.2% | 0.04 | 10 | \$33 | 30% | 2.06 |
| FE-WPP | Synchronous Belts | Mfg: Paper | Process Refrigeration | New | end use | 22,496 | 1.2% | 0.04 | 10 | \$33 | 30% | 2.06 |
| FE-WPP | Synchronous Belts | Mfg: Paper | Process Refrigeration | ROB | end use | 22,496 | 1.2% | 0.04 | 10 | \$33 | 30% | 2.06 |
| FE-WPP | VFD on Cooling Tower Fan | Mfg: Paper | Process Refrigeration | Early | motor | 57,007 | 21% | 3.59 | 15 | \$2,632 | 20% | 2.23 |
| FE-WPP | VFD on Cooling Tower Fan | Mfg: Paper | Process Refrigeration | New | motor | 57,007 | 22% | 3.60 | 15 | \$2,683 | 20% | 2.22 |
| FE-WPP | VFD on Cooling Tower Fan | Mfg: Paper | Process Refrigeration | ROB | motor | 57,007 | 22% | 3.60 | 15 | \$2,683 | 20% | 2.22 |
| FE-WPP | Facility Energy Management | Mfg: Paper | Pumps | Existing | end use | 2,171,088 | 1.9% | 5.20 | 2 | \$837 | 69% | 1.13 |
| FE-WPP | Facility Energy Management | Mfg: Paper | Pumps | New | end use | 2,171,088 | 1.9% | 5.20 | 2 | \$837 | 69% | 1.13 |
| FE-WPP | HE Motors | Mfg: Paper | Pumps | Early | end use | 2,171,088 | 2.0% | 5.78 | 15 | \$12,925 | 73% | 1.53 |
| FE-WPP | HE Motors | Mfg: Paper | Pumps | New | end use | 2,171,088 | 2.0% | 5.78 | 15 | \$12,925 | 73% | 1.53 |
| FE-WPP | HE Motors | Mfg: Paper | Pumps | ROB | end use | 2,171,088 | 2.0% | 5.78 | 15 | \$12,925 | 73% | 1.53 |
| FE-WPP | Motor rewinds | Mfg: Paper | Pumps | Existing | end use | 2,171,088 | 0.6% | 1.68 | 9 | \$3,087 | 11% | 1.24 |
| FE-WPP | Motor rewinds | Mfg: Paper | Pumps | New | end use | 2,171,088 | 0.6% | 1.68 | 9 | \$3,087 | 11% | 1.23 |
| FE-WPP | Pump Equipment Upgrade | Mfg: Paper | Pumps | Early | end use | 2,171,088 | 20% | 56.49 | 12 | \$54,277 | 81% | 2.34 |
| FE-WPP | Pump Equipment Upgrade | Mfg: Paper | Pumps | New | end use | 2,171,088 | 20% | 56.49 | 12 | \$54,277 | 81% | 2.34 |
| FE-WPP | Pump Equipment Upgrade | Mfg: Paper | Pumps | ROB | end use | 2,171,088 | 20% | 56.49 | 12 | \$54,277 | 81% | 2.34 |
| FE-WPP | Pump System Optimization | Mfg: Paper | Pumps | Existing | end use | 2,171,088 | 8.7% | 24.56 | 12 | \$39,752 | 38% | 1.66 |
| FE-WPP | Pump System Optimization | Mfg: Paper | Pumps | New | end use | 2,171,088 | 8.7% | 24.56 | 12 | \$39,752 | 38% | 1.66 |
| FE-WPP | Synchronous Belts | Mfg: Paper | Pumps | Early | end use | 2,171,088 | 1.2% | 3.29 | 10 | \$3,199 | 61% | 2.03 |
| FE-WPP | Synchronous Belts | Mfg: Paper | Pumps | New | end use | 2,171,088 | 1.2% | 3.29 | 10 | \$3,199 | 61% | 2.03 |
| FE-WPP | Synchronous Belts | Mfg: Paper | Pumps | ROB | end use | 2,171,088 | 1.2% | 3.29 | 10 | \$3,199 | 61% | 2.03 |
| FE-WPP | Circulating Fans | Mfg: Plastics | Fans | Early | end use | 57,612 | 5.0% | 0.34 | 10 | \$351 | 68% | 2.10 |
| FE-WPP | Circulating Fans | Mfg: Plastics | Fans | New | end use | 57,612 | 5.0% | 0.34 | 10 | \$351 | 68% | 2.10 |
| FE-WPP | Circulating Fans | Mfg: Plastics | Fans | ROB | end use | 57,612 | 5.0% | 0.34 | 10 | \$351 | 68% | 2.10 |
| FE-WPP | Facility Energy Management | Mfg: Plastics | Fans | Existing | end use | 57,612 | 1.8% | 0.13 | 2 | \$22 | 77% | 1.11 |
| FE-WPP | Facility Energy Management | Mfg: Plastics | Fans | New | end use | 57,612 | 1.9% | 0.13 | 2 | \$22 | 77% | 1.12 |
| FE-WPP | HE Motors | Mfg: Plastics | Fans | Early | end use | 57,612 | 2.0% | 0.14 | 15 | \$343 | 77% | 1.55 |
| FE-WPP | HE Motors | Mfg: Plastics | Fans | New | end use | 57,612 | 2.0% | 0.14 | 15 | \$343 | 77% | 1.55 |
| FE-WPP | HE Motors | Mfg: Plastics | Fans | ROB | end use | 57,612 | 2.0% | 0.14 | 15 | \$343 | 77% | 1.55 |
| FE-WPP | Improved Controls - Fans | Mfg: Plastics | Fans | Existing | end use | 57,612 | 7.1% | 0.49 | 10 | \$223 | 88% | 3.23 |
| FE-WPP | Improved Controls - Fans | Mfg: Plastics | Fans | New | end use | 57,612 | 7.1% | 0.49 | 10 | \$223 | 88% | 3.23 |
| FE-WPP | Properly Sized Fans | Mfg: Plastics | Fans | Early | end use | 57,612 | 13% | 0.90 | 10 | \$1,180 | 41% | 1.79 |
| FE-WPP | Properly Sized Fans | Mfg: Plastics | Fans | New | end use | 57,612 | 13% | 0.90 | 10 | \$1,180 | 41% | 1.79 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|--|---------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Properly Sized Fans | Mfg: Plastics | Fans | ROB | end use | 57,612 | 13% | 0.90 | 10 | \$1,180 | 41% | 1.79 |
| FE-WPP | Synchronous Belts | Mfg: Plastics | Fans | Early | end use | 57,612 | 1.2% | 0.08 | 10 | \$85 | 41% | 2.05 |
| FE-WPP | Synchronous Belts | Mfg: Plastics | Fans | New | end use | 57,612 | 1.2% | 0.08 | 10 | \$85 | 41% | 2.05 |
| FE-WPP | Synchronous Belts | Mfg: Plastics | Fans | ROB | end use | 57,612 | 1.2% | 0.08 | 10 | \$85 | 41% | 2.05 |
| FE-WPP | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Plastics | HVAC | Early | unit (ton) | 201,749 | 9.2% | 4.80 | 15 | \$36,768 | 28% | 0.31 |
| FE-WPP | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Plastics | HVAC | New | unit (ton) | 201,749 | 4.1% | 2.16 | 15 | \$8,908 | 28% | 0.56 |
| FE-WPP | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Plastics | HVAC | ROB | unit (ton) | 201,749 | 4.1% | 2.16 | 15 | \$8,908 | 28% | 0.56 |
| FE-WPP | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Plastics | HVAC | Early | unit (ton) | 201,749 | 12% | 6.50 | 15 | \$43,345 | 28% | 0.36 |
| FE-WPP | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Plastics | HVAC | New | unit (ton) | 201,749 | 7.7% | 4.03 | 15 | \$18,762 | 28% | 0.50 |
| FE-WPP | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Plastics | HVAC | ROB | unit (ton) | 201,749 | 7.7% | 4.03 | 15 | \$18,762 | 28% | 0.50 |
| FE-WPP | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Plastics | HVAC | Early | unit (ton) | 201,749 | 15% | 7.98 | 15 | \$49,923 | 29% | 0.38 |
| FE-WPP | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Plastics | HVAC | New | unit (ton) | 201,749 | 11% | 5.66 | 15 | \$28,616 | 29% | 0.47 |
| FE-WPP | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Plastics | HVAC | ROB | unit (ton) | 201,749 | 11% | 5.66 | 15 | \$28,616 | 29% | 0.47 |
| FE-WPP | >760k min 10.2 EER Air Conditioner | Mfg: Plastics | HVAC | Early | unit (ton) | 201,749 | 2.1% | 1.11 | 15 | \$64,028 | 35% | 0.04 |
| FE-WPP | >760k min 10.2 EER Air Conditioner | Mfg: Plastics | HVAC | New | unit (ton) | 201,749 | 2.8% | 1.48 | 15 | \$5,787 | 35% | 0.59 |
| FE-WPP | >760k min 10.2 EER Air Conditioner | Mfg: Plastics | HVAC | ROB | unit (ton) | 201,749 | 2.8% | 1.48 | 15 | \$5,787 | 35% | 0.59 |
| FE-WPP | 135-240k min 12 EER Air Conditioner | Mfg: Plastics | HVAC | Early | unit (ton) | 201,749 | 10% | 5.48 | 15 | \$69,333 | 35% | 0.19 |
| FE-WPP | 135-240k min 12 EER Air Conditioner | Mfg: Plastics | HVAC | New | unit (ton) | 201,749 | 5.8% | 3.02 | 15 | \$8,187 | 35% | 0.83 |
| FE-WPP | 135-240k min 12 EER Air Conditioner | Mfg: Plastics | HVAC | ROB | unit (ton) | 201,749 | 5.8% | 3.02 | 15 | \$8,187 | 35% | 0.83 |
| FE-WPP | 240k-760k min 11 EER Air Conditioner | Mfg: Plastics | HVAC | Early | unit (ton) | 201,749 | 5.2% | 2.73 | 15 | \$64,069 | 35% | 0.10 |
| FE-WPP | 240k-760k min 11 EER Air Conditioner | Mfg: Plastics | HVAC | New | unit (ton) | 201,749 | 5.3% | 2.80 | 15 | \$6,864 | 35% | 0.91 |
| FE-WPP | 240k-760k min 11 EER Air Conditioner | Mfg: Plastics | HVAC | ROB | unit (ton) | 201,749 | 5.3% | 2.80 | 15 | \$6,864 | 35% | 0.91 |
| FE-WPP | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Plastics | HVAC | Early | unit (ton) | 201,749 | 9.7% | 5.08 | 15 | \$70,991 | 35% | 0.17 |
| FE-WPP | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Plastics | HVAC | New | unit (ton) | 201,749 | 3.8% | 2.01 | 15 | \$10,129 | 35% | 0.47 |
| FE-WPP | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Plastics | HVAC | ROB | unit (ton) | 201,749 | 3.8% | 2.01 | 15 | \$10,129 | 35% | 0.47 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Mfg: Plastics | HVAC | Existing | building | 201,749 | 5.9% | 3.00 | 15 | \$611,268 | 71% | 0.01 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Mfg: Plastics | HVAC | New | building | 201,749 | 3.7% | 1.88 | 15 | \$581,028 | 94% | 0.01 |
| FE-WPP | Chiller Tuneup/Diagnostics | Mfg: Plastics | HVAC | Existing | building | 201,749 | 8.0% | 5.92 | 10 | \$515,156 | 59% | 0.02 |
| FE-WPP | Chiller Tuneup/Diagnostics | Mfg: Plastics | HVAC | New | building | 201,749 | 8.0% | 5.93 | 10 | \$515,156 | 59% | 0.02 |
| FE-WPP | Cooling Tower Optimization | Mfg: Plastics | HVAC | Existing | building | 201,749 | 20% | 14.44 | 10 | \$1,237 | 69% | 5.07 |
| FE-WPP | Duct Insulation, Add R8 | Mfg: Plastics | HVAC | Existing | building | 201,749 | 1.5% | 0.65 | 15 | \$1,603 | 18% | 1.05 |
| FE-WPP | Duct Insulation, Add R8 | Mfg: Plastics | HVAC | New | building | 201,749 | 1.5% | 0.65 | 15 | \$1,603 | 9% | 1.05 |
| FE-WPP | Ductless Heat Pump | Mfg: Plastics | HVAC | Early | heat pump | 201,749 | 0.8% | 0.38 | 15 | \$15,950 | 83% | 0.06 |
| FE-WPP | Ductless Heat Pump | Mfg: Plastics | HVAC | New | heat pump | 201,749 | 0.4% | 0.20 | 15 | \$4,632 | 83% | 0.12 |
| FE-WPP | Ductless Heat Pump | Mfg: Plastics | HVAC | ROB | heat pump | 201,749 | 0.4% | 0.20 | 15 | \$4,632 | 83% | 0.12 |
| FE-WPP | DX Coil Cleaning | Mfg: Plastics | HVAC | Existing | building | 201,749 | 13% | 9.25 | 1 | \$1,934 | 73% | 0.45 |
| FE-WPP | DX Coil Cleaning | Mfg: Plastics | HVAC | New | building | 201,749 | 13% | 9.25 | 1 | \$1,934 | 73% | 0.45 |
| FE-WPP | Efficient Unit Heating System | Mfg: Plastics | HVAC | Early | heater | 201,749 | 6.9% | 0.12 | 15 | \$10,891 | 83% | 0.59 |
| FE-WPP | Efficient Unit Heating System | Mfg: Plastics | HVAC | New | heater | 201,749 | 4.0% | 0.07 | 15 | \$7,429 | 83% | 0.50 |
| FE-WPP | Efficient Unit Heating System | Mfg: Plastics | HVAC | ROB | heater | 201,749 | 4.0% | 0.07 | 15 | \$7,429 | 83% | 0.50 |
| FE-WPP | Ground Source Heat Pump (Closed Loop) | Mfg: Plastics | HVAC | Early | heat pump | 201,749 | 1.3% | 0.59 | 15 | \$33,119 | 19% | 0.05 |
| FE-WPP | Ground Source Heat Pump (Closed Loop) | Mfg: Plastics | HVAC | New | heat pump | 201,749 | 1.0% | 0.46 | 15 | \$13,077 | 19% | 0.10 |
| FE-WPP | Ground Source Heat Pump (Closed Loop) | Mfg: Plastics | HVAC | ROB | heat pump | 201,749 | 1.0% | 0.46 | 15 | \$13,077 | 19% | 0.10 |
| FE-WPP | Ground Source Heat Pump (Open Loop) | Mfg: Plastics | HVAC | Early | heat pump | 201,749 | 1.3% | 0.59 | 15 | \$21,211 | 19% | 0.08 |
| FE-WPP | Ground Source Heat Pump (Open Loop) | Mfg: Plastics | HVAC | New | heat pump | 201,749 | 1.0% | 0.46 | 15 | \$450 | 19% | 2.16 |
| FE-WPP | Ground Source Heat Pump (Open Loop) | Mfg: Plastics | HVAC | ROB | heat pump | 201,749 | 1.0% | 0.46 | 15 | \$450 | 19% | 2.16 |
| FE-WPP | HE Air Cooled Chiller, 100 Tons | Mfg: Plastics | HVAC | Early | unit (ton) | 201,749 | 1.5% | 0.66 | 15 | \$234,688 | 89% | 0.01 |
| FE-WPP | HE Air Cooled Chiller, 100 Tons | Mfg: Plastics | HVAC | New | unit (ton) | 201,749 | 0.4% | 0.19 | 15 | \$34,190 | 89% | 0.02 |
| FE-WPP | HE Air Cooled Chiller, 100 Tons | Mfg: Plastics | HVAC | ROB | unit (ton) | 201,749 | 0.4% | 0.19 | 15 | \$34,190 | 89% | 0.02 |
| FE-WPP | HE Air Cooled Chiller, 150 Tons | Mfg: Plastics | HVAC | Early | unit (ton) | 201,749 | 1.4% | 0.65 | 15 | \$202,718 | 89% | 0.01 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|---------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | HE Air Cooled Chiller, 150 Tons | Mfg: Plastics | HVAC | New | unit (ton) | 201,749 | 0.3% | 0.14 | 15 | \$16,790 | 89% | 0.02 |
| FE-WPP | HE Air Cooled Chiller, 150 Tons | Mfg: Plastics | HVAC | ROB | unit (ton) | 201,749 | 0.3% | 0.14 | 15 | \$16,790 | 89% | 0.02 |
| FE-WPP | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Plastics | HVAC | Early | heat pump | 201,749 | 1.4% | 0.62 | 12 | \$8,646 | 81% | 0.16 |
| FE-WPP | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Plastics | HVAC | Early | heat pump | 201,749 | 1.1% | 0.51 | 12 | \$6,316 | 81% | 0.18 |
| FE-WPP | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Plastics | HVAC | New | heat pump | 201,749 | 1.0% | 0.46 | 12 | \$3,860 | 81% | 0.26 |
| FE-WPP | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Plastics | HVAC | New | heat pump | 201,749 | 0.8% | 0.34 | 12 | \$1,349 | 81% | 0.54 |
| FE-WPP | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Plastics | HVAC | ROB | heat pump | 201,749 | 1.0% | 0.46 | 12 | \$3,860 | 81% | 0.26 |
| FE-WPP | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Plastics | HVAC | ROB | heat pump | 201,749 | 0.8% | 0.34 | 12 | \$1,349 | 81% | 0.54 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Plastics | HVAC | Early | unit (ton) | 201,749 | 1.6% | 0.72 | 15 | \$18,621 | 89% | 0.11 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Plastics | HVAC | New | unit (ton) | 201,749 | 0.9% | 0.42 | 15 | \$6,193 | 89% | 0.18 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Plastics | HVAC | ROB | unit (ton) | 201,749 | 0.9% | 0.42 | 15 | \$6,193 | 89% | 0.18 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Plastics | HVAC | Early | unit (ton) | 201,749 | 1.4% | 0.64 | 15 | \$18,186 | 89% | 0.10 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Plastics | HVAC | New | unit (ton) | 201,749 | 1.0% | 0.45 | 15 | \$3,551 | 89% | 0.34 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Plastics | HVAC | ROB | unit (ton) | 201,749 | 1.4% | 0.64 | 15 | \$3,262 | 89% | 0.51 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Plastics | HVAC | Early | unit (ton) | 201,749 | 1.4% | 0.63 | 15 | \$21,525 | 89% | 0.08 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Plastics | HVAC | New | unit (ton) | 201,749 | 0.9% | 0.40 | 15 | \$9,062 | 89% | 0.12 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Plastics | HVAC | ROB | unit (ton) | 201,749 | 1.4% | 0.63 | 15 | \$8,202 | 89% | 0.21 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Plastics | HVAC | Early | unit (ton) | 201,749 | 1.4% | 0.63 | 15 | \$20,734 | 89% | 0.08 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Plastics | HVAC | New | unit (ton) | 201,749 | 0.9% | 0.40 | 15 | \$7,877 | 89% | 0.14 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Plastics | HVAC | ROB | unit (ton) | 201,749 | 1.4% | 0.63 | 15 | \$7,130 | 89% | 0.24 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Plastics | HVAC | Early | unit (ton) | 201,749 | 1.8% | 0.82 | 15 | \$22,341 | 89% | 0.10 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Plastics | HVAC | New | unit (ton) | 201,749 | 0.5% | 0.25 | 15 | \$13,834 | 89% | 0.05 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Plastics | HVAC | ROB | unit (ton) | 201,749 | 1.8% | 0.82 | 15 | \$10,742 | 89% | 0.21 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Plastics | HVAC | Early | unit (ton) | 201,749 | 2.1% | 0.97 | 15 | \$20,549 | 89% | 0.13 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Plastics | HVAC | New | unit (ton) | 201,749 | 0.8% | 0.35 | 15 | \$8,246 | 89% | 0.12 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Plastics | HVAC | ROB | unit (ton) | 201,749 | 0.8% | 0.35 | 15 | \$8,246 | 89% | 0.12 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Plastics | HVAC | Early | unit (ton) | 201,749 | 2.4% | 1.09 | 15 | \$17,416 | 89% | 0.17 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Plastics | HVAC | New | unit (ton) | 201,749 | 0.9% | 0.41 | 15 | \$4,382 | 89% | 0.25 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Plastics | HVAC | ROB | unit (ton) | 201,749 | 2.4% | 1.09 | 15 | \$3,125 | 89% | 0.87 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Plastics | HVAC | Early | unit (ton) | 201,749 | 1.8% | 0.82 | 15 | \$17,241 | 89% | 0.13 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Plastics | HVAC | New | unit (ton) | 201,749 | 0.7% | 0.31 | 15 | \$4,828 | 89% | 0.17 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Plastics | HVAC | ROB | unit (ton) | 201,749 | 1.8% | 0.82 | 15 | \$3,825 | 89% | 0.56 |
| FE-WPP | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Plastics | HVAC | Existing | building | 201,749 | 2.9% | 1.19 | 5 | \$2,140 | 55% | 0.58 |
| FE-WPP | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Plastics | HVAC | New | building | 201,749 | 0.6% | 0.47 | 5 | \$1,284 | 51% | 0.28 |
| FE-WPP | Improved Controls - HVAC | Mfg: Plastics | HVAC | Existing | end use | 34,307 | 21% | 1.03 | 10 | \$361 | 76% | 3.46 |
| FE-WPP | Improved Controls - HVAC | Mfg: Plastics | HVAC | New | end use | 34,307 | 21% | 1.03 | 10 | \$361 | 76% | 3.46 |
| FE-WPP | Outside Air Economizer | Mfg: Plastics | HVAC | Existing | building | 201,749 | 1.1% | 0.57 | 10 | \$741,265 | 82% | 0.00 |
| FE-WPP | Outside Air Economizer | Mfg: Plastics | HVAC | New | building | 201,749 | 1.1% | 0.57 | 10 | \$741,265 | 82% | 0.00 |
| FE-WPP | Recommissioning | Mfg: Plastics | HVAC | Existing | end use | 34,307 | 5.0% | 0.25 | 10 | \$47 | 88% | 4.27 |
| FE-WPP | Recommissioning | Mfg: Plastics | HVAC | New | end use | 34,307 | 5.0% | 0.25 | 10 | \$47 | 88% | 4.27 |
| FE-WPP | Room AC (with louvered sides) | Mfg: Plastics | HVAC | Early | unit (ton) | 201,749 | 7.7% | 3.50 | 9 | \$15,820 | 78% | 0.39 |
| FE-WPP | Room AC (with louvered sides) | Mfg: Plastics | HVAC | New | unit (ton) | 201,749 | 2.6% | 1.17 | 9 | \$866 | 78% | 1.77 |
| FE-WPP | Room AC (with louvered sides) | Mfg: Plastics | HVAC | ROB | unit (ton) | 201,749 | 2.6% | 1.17 | 9 | \$866 | 78% | 1.77 |
| FE-WPP | Variable Refrigerant Flow Heat Pump | Mfg: Plastics | HVAC | New | measure | 201,749 | 0.1% | 0.05 | 13 | \$1,485 | 43% | 0.09 |
| FE-WPP | Variable Refrigerant Flow Heat Pump | Mfg: Plastics | HVAC | ROB | measure | 201,749 | 0.1% | 0.05 | 13 | \$1,485 | 43% | 0.09 |
| FE-WPP | VFD on Cooling Tower Fan | Mfg: Plastics | HVAC | Early | motor | 201,749 | 21% | 12.72 | 15 | \$9,316 | 15% | 2.32 |
| FE-WPP | VFD on Cooling Tower Fan | Mfg: Plastics | HVAC | New | motor | 201,749 | 22% | 12.72 | 15 | \$9,494 | 15% | 2.31 |
| FE-WPP | VFD on Cooling Tower Fan | Mfg: Plastics | HVAC | ROB | motor | 201,749 | 22% | 12.72 | 15 | \$9,494 | 15% | 2.31 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Mfg: Plastics | HVAC | Existing | building | 201,749 | 19% | 9.65 | 15 | \$143,517 | 26% | 0.17 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Mfg: Plastics | HVAC | New | building | 201,749 | 0.6% | 0.31 | 15 | \$110,085 | 94% | 0.01 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---------------------------------------|---------------|----------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Water Source Heat Pump (4 ton) | Mfg: Plastics | HVAC | Early | heat pump | 201,749 | 1.5% | 0.70 | 15 | \$34,297 | 28% | 0.06 |
| FE-WPP | Water Source Heat Pump (4 ton) | Mfg: Plastics | HVAC | New | heat pump | 201,749 | 1.1% | 0.51 | 15 | \$16,715 | 28% | 0.08 |
| FE-WPP | Water Source Heat Pump (4 ton) | Mfg: Plastics | HVAC | ROB | heat pump | 201,749 | 1.1% | 0.51 | 15 | \$16,715 | 28% | 0.08 |
| FE-WPP | Efficient Metal Halide (High Bay) | Mfg: Plastics | Lighting | Early | end use | 169,946 | 42% | 0.00 | 9 | \$26,556 | 53% | 0.73 |
| FE-WPP | Efficient Metal Halide (High Bay) | Mfg: Plastics | Lighting | New | end use | 169,946 | 41% | 0.00 | 13 | \$709,322 | 61% | 0.04 |
| FE-WPP | Efficient Metal Halide (High Bay) | Mfg: Plastics | Lighting | ROB | end use | 169,946 | 41% | 0.00 | 13 | \$542,103 | 61% | 0.06 |
| FE-WPP | Induction (High Bay) | Mfg: Plastics | Lighting | Early | end use | 169,946 | 94% | 0.00 | 13 | \$79,016 | 95% | 0.77 |
| FE-WPP | Induction (High Bay) | Mfg: Plastics | Lighting | New | end use | 169,946 | 94% | 0.00 | 13 | \$73,978 | 95% | 0.81 |
| FE-WPP | Induction (High Bay) | Mfg: Plastics | Lighting | ROB | end use | 169,946 | 94% | 0.00 | 13 | \$56,226 | 95% | 1.02 |
| FE-WPP | LED (High Bay) | Mfg: Plastics | Lighting | Early | end use | 169,946 | 69% | 0.00 | 14 | \$93,013 | 95% | 0.53 |
| FE-WPP | LED (High Bay) | Mfg: Plastics | Lighting | New | end use | 169,946 | 55% | 0.00 | 14 | \$103,242 | 95% | 0.39 |
| FE-WPP | LED (High Bay) | Mfg: Plastics | Lighting | ROB | end use | 169,946 | 59% | 0.00 | 14 | \$68,025 | 95% | 0.61 |
| FE-WPP | Lighting Controls | Mfg: Plastics | Lighting | Existing | end use | 169,946 | 20% | 0.00 | 6 | \$637,107 | 16% | 0.01 |
| FE-WPP | Lighting Controls | Mfg: Plastics | Lighting | New | end use | 169,946 | 12% | 0.00 | 10 | \$847,561 | 11% | 0.01 |
| FE-WPP | Linear Fluorescent (High Bay) | Mfg: Plastics | Lighting | Early | end use | 169,946 | 17% | 0.00 | 14 | \$19,445 | 98% | 0.61 |
| FE-WPP | Linear Fluorescent (High Bay) | Mfg: Plastics | Lighting | New | end use | 169,946 | 13% | 0.00 | 14 | \$6,167 | 91% | 1.29 |
| FE-WPP | Linear Fluorescent (High Bay) | Mfg: Plastics | Lighting | ROB | end use | 169,946 | 13% | 0.00 | 14 | \$3,948 | 91% | 1.87 |
| FE-WPP | Metal Halide (High Bay) | Mfg: Plastics | Lighting | Early | end use | 169,946 | 62% | 0.00 | 13 | \$116,827 | 38% | 0.37 |
| FE-WPP | Metal Halide (High Bay) | Mfg: Plastics | Lighting | New | end use | 169,946 | 73% | 0.00 | 13 | \$27,932 | 38% | 1.46 |
| FE-WPP | Metal Halide (High Bay) | Mfg: Plastics | Lighting | ROB | end use | 169,946 | 73% | 0.00 | 13 | \$21,228 | 38% | 1.78 |
| FE-WPP | Screw Base CFL | Mfg: Plastics | Lighting | Early | end use | 169,946 | 80% | 0.00 | 7 | \$46,171 | 17% | 0.64 |
| FE-WPP | Screw Base CFL | Mfg: Plastics | Lighting | New | end use | 169,946 | 73% | 0.00 | 9 | \$37,733 | 18% | 0.86 |
| FE-WPP | Screw Base CFL | Mfg: Plastics | Lighting | ROB | end use | 169,946 | 73% | 0.00 | 9 | \$31,582 | 17% | 0.99 |
| FE-WPP | Screw Base LED | Mfg: Plastics | Lighting | Early | end use | 169,946 | 76% | 0.00 | 9 | \$28,335 | 21% | 1.15 |
| FE-WPP | Screw Base LED | Mfg: Plastics | Lighting | New | end use | 169,946 | 77% | 0.00 | 9 | \$15,785 | 20% | 1.75 |
| FE-WPP | Screw Base LED | Mfg: Plastics | Lighting | ROB | end use | 169,946 | 77% | 0.00 | 9 | \$12,531 | 21% | 2.01 |
| FE-WPP | T8 High Performance Linear Florescent | Mfg: Plastics | Lighting | Early | end use | 169,946 | 36% | 0.00 | 14 | \$16,263 | 71% | 1.37 |
| FE-WPP | T8 High Performance Linear Florescent | Mfg: Plastics | Lighting | New | end use | 169,946 | 26% | 0.00 | 14 | \$5,818 | 76% | 2.31 |
| FE-WPP | T8 High Performance Linear Florescent | Mfg: Plastics | Lighting | ROB | end use | 169,946 | 26% | 0.00 | 14 | \$4,422 | 76% | 2.73 |
| FE-WPP | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Plastics | Motors | Early | end use | 18,189 | 0.9% | 0.02 | 15 | \$278 | 81% | 0.32 |
| FE-WPP | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Plastics | Motors | New | end use | 18,189 | 0.9% | 0.02 | 15 | \$278 | 81% | 0.32 |
| FE-WPP | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Plastics | Motors | ROB | end use | 18,189 | 0.9% | 0.02 | 15 | \$278 | 81% | 0.32 |
| FE-WPP | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Plastics | Motors | Early | end use | 18,189 | 0.8% | 0.02 | 15 | \$169 | 73% | 0.43 |
| FE-WPP | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Plastics | Motors | New | end use | 18,189 | 0.7% | 0.02 | 15 | \$169 | 73% | 0.42 |
| FE-WPP | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Plastics | Motors | ROB | end use | 18,189 | 0.8% | 0.02 | 15 | \$169 | 73% | 0.43 |
| FE-WPP | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Plastics | Motors | Early | end use | 18,189 | 0.4% | 0.01 | 15 | \$65 | 81% | 0.64 |
| FE-WPP | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Plastics | Motors | New | end use | 18,189 | 0.5% | 0.01 | 15 | \$65 | 81% | 0.67 |
| FE-WPP | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Plastics | Motors | ROB | end use | 18,189 | 0.5% | 0.01 | 15 | \$65 | 81% | 0.67 |
| FE-WPP | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Plastics | Motors | Early | end use | 18,189 | 0.4% | 0.01 | 15 | \$21 | 73% | 1.51 |
| FE-WPP | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Plastics | Motors | New | end use | 18,189 | 0.4% | 0.01 | 15 | \$21 | 73% | 1.54 |
| FE-WPP | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Plastics | Motors | ROB | end use | 18,189 | 0.4% | 0.01 | 15 | \$21 | 73% | 1.57 |
| FE-WPP | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Plastics | Motors | Early | end use | 18,189 | 0.9% | 0.02 | 15 | \$32 | 47% | 2.13 |
| FE-WPP | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Plastics | Motors | New | end use | 18,189 | 0.9% | 0.02 | 15 | \$32 | 47% | 2.16 |
| FE-WPP | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Plastics | Motors | ROB | end use | 18,189 | 0.9% | 0.02 | 15 | \$32 | 47% | 2.14 |
| FE-WPP | Facility Energy Management | Mfg: Plastics | Motors | Existing | end use | 18,189 | 1.9% | 0.05 | 2 | \$7.0 | 77% | 1.11 |
| FE-WPP | Facility Energy Management | Mfg: Plastics | Motors | New | end use | 18,189 | 1.8% | 0.05 | 2 | \$7.0 | 77% | 1.11 |
| FE-WPP | HE Motors | Mfg: Plastics | Motors | Early | end use | 18,189 | 2.0% | 0.05 | 15 | \$108 | 38% | 1.55 |
| FE-WPP | HE Motors | Mfg: Plastics | Motors | New | end use | 18,189 | 2.0% | 0.05 | 15 | \$108 | 38% | 1.55 |
| FE-WPP | HE Motors | Mfg: Plastics | Motors | ROB | end use | 18,189 | 2.0% | 0.05 | 15 | \$108 | 38% | 1.55 |
| FE-WPP | High-Efficiency Ventilation System | Mfg: Plastics | Motors | Early | end use | 18,189 | 5.7% | 0.15 | 10 | \$1,137 | 73% | 0.34 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|--|---------------|------------------------|----------|---------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | High-Efficiency Ventilation System | Mfg: Plastics | Motors | New | end use | 18,189 | 5.7% | 0.15 | 10 | \$1,137 | 73% | 0.35 |
| FE-WPP | High-Efficiency Ventilation System | Mfg: Plastics | Motors | ROB | end use | 18,189 | 5.7% | 0.15 | 10 | \$1,137 | 73% | 0.34 |
| FE-WPP | Improved Controls - Motors | Mfg: Plastics | Motors | Existing | end use | 18,189 | 4.0% | 0.10 | 10 | \$79 | 73% | 2.24 |
| FE-WPP | Improved Controls - Motors | Mfg: Plastics | Motors | New | end use | 18,189 | 4.0% | 0.10 | 10 | \$79 | 73% | 2.24 |
| FE-WPP | Motor Management Plan | Mfg: Plastics | Motors | Existing | end use | 18,189 | 2.9% | 0.08 | 10 | \$37 | 73% | 2.87 |
| FE-WPP | Motor Management Plan | Mfg: Plastics | Motors | New | end use | 18,189 | 2.9% | 0.08 | 10 | \$37 | 73% | 2.87 |
| FE-WPP | Motors Other | Mfg: Plastics | Motors | Existing | end use | 18,189 | 1.1% | 0.03 | 15 | \$3.6 | 83% | 6.32 |
| FE-WPP | Motors Other | Mfg: Plastics | Motors | New | end use | 18,189 | 1.1% | 0.03 | 15 | \$3.6 | 83% | 6.32 |
| FE-WPP | Motors: Rewind 101-200 HP | Mfg: Plastics | Motors | Existing | end use | 18,189 | 0.6% | 0.01 | 10 | \$23 | 27% | 1.37 |
| FE-WPP | Motors: Rewind 101-200 HP | Mfg: Plastics | Motors | New | end use | 18,189 | 0.6% | 0.01 | 10 | \$23 | 27% | 1.36 |
| FE-WPP | Motors: Rewind 201-500 HP | Mfg: Plastics | Motors | Existing | end use | 18,189 | 0.6% | 0.01 | 8 | \$14 | 27% | 1.61 |
| FE-WPP | Motors: Rewind 201-500 HP | Mfg: Plastics | Motors | New | end use | 18,189 | 0.6% | 0.01 | 8 | \$14 | 27% | 1.62 |
| FE-WPP | Motors: Rewind 20-50 HP | Mfg: Plastics | Motors | Existing | end use | 18,189 | 1.0% | 0.03 | 11 | \$68 | 42% | 1.03 |
| FE-WPP | Motors: Rewind 20-50 HP | Mfg: Plastics | Motors | New | end use | 18,189 | 1.0% | 0.03 | 11 | \$68 | 42% | 1.02 |
| FE-WPP | Motors: Rewind 500+ HP | Mfg: Plastics | Motors | Existing | end use | 18,189 | 0.6% | 0.01 | 8 | \$10 | 11% | 1.99 |
| FE-WPP | Motors: Rewind 500+ HP | Mfg: Plastics | Motors | New | end use | 18,189 | 0.6% | 0.01 | 8 | \$10 | 11% | 2.01 |
| FE-WPP | Motors: Rewind 51-100 HP | Mfg: Plastics | Motors | Existing | end use | 18,189 | 0.6% | 0.02 | 9 | \$33 | 42% | 1.01 |
| FE-WPP | Motors: Rewind 51-100 HP | Mfg: Plastics | Motors | New | end use | 18,189 | 0.6% | 0.02 | 9 | \$33 | 42% | 1.00 |
| FE-WPP | Switch from Belt drive to Direct Drive | Mfg: Plastics | Motors | Early | end use | 18,189 | 7.5% | 0.19 | 12 | \$292 | 30% | 1.63 |
| FE-WPP | Switch from Belt drive to Direct Drive | Mfg: Plastics | Motors | New | end use | 18,189 | 7.5% | 0.19 | 12 | \$292 | 30% | 1.63 |
| FE-WPP | Switch from Belt drive to Direct Drive | Mfg: Plastics | Motors | ROB | end use | 18,189 | 7.5% | 0.19 | 12 | \$292 | 30% | 1.63 |
| FE-WPP | Synchronous Belts | Mfg: Plastics | Motors | Early | end use | 18,189 | 1.2% | 0.03 | 10 | \$27 | 30% | 2.05 |
| FE-WPP | Synchronous Belts | Mfg: Plastics | Motors | New | end use | 18,189 | 1.2% | 0.03 | 10 | \$27 | 30% | 2.05 |
| FE-WPP | Synchronous Belts | Mfg: Plastics | Motors | ROB | end use | 18,189 | 1.2% | 0.03 | 10 | \$27 | 30% | 2.05 |
| FE-WPP | Bldg Improvements | Mfg: Plastics | Other | Existing | end use | 8,924 | 16% | 0.17 | 15 | \$195 | 72% | 2.66 |
| FE-WPP | Bldg Improvements | Mfg: Plastics | Other | New | end use | 8,924 | 16% | 0.17 | 15 | \$195 | 72% | 2.66 |
| FE-WPP | Energy Project Management | Mfg: Plastics | Other | Existing | end use | 8,924 | 29% | 0.31 | 11 | \$319 | 63% | 2.18 |
| FE-WPP | Energy Project Management | Mfg: Plastics | Other | New | end use | 8,924 | 29% | 0.31 | 11 | \$319 | 63% | 2.18 |
| FE-WPP | Facility Energy Management | Mfg: Plastics | Other | Existing | end use | 8,924 | 1.9% | 0.02 | 2 | \$3.4 | 76% | 1.09 |
| FE-WPP | Facility Energy Management | Mfg: Plastics | Other | New | end use | 8,924 | 1.9% | 0.02 | 2 | \$3.4 | 76% | 1.09 |
| FE-WPP | Integrated Plant Energy Management | Mfg: Plastics | Other | Existing | end use | 8,924 | 50% | 0.53 | 11 | \$880 | 48% | 1.57 |
| FE-WPP | Integrated Plant Energy Management | Mfg: Plastics | Other | New | end use | 8,924 | 50% | 0.53 | 11 | \$880 | 48% | 1.57 |
| FE-WPP | Plant Energy Management | Mfg: Plastics | Other | Existing | end use | 8,924 | 12% | 0.13 | 10 | \$22 | 55% | 4.32 |
| FE-WPP | Plant Energy Management | Mfg: Plastics | Other | New | end use | 8,924 | 12% | 0.13 | 10 | \$22 | 55% | 4.32 |
| FE-WPP | Transformers | Mfg: Plastics | Other | Early | end use | 8,924 | 1.6% | 0.02 | 15 | \$29 | 34% | 2.00 |
| FE-WPP | Transformers | Mfg: Plastics | Other | New | end use | 8,924 | 1.6% | 0.02 | 15 | \$29 | 34% | 2.00 |
| FE-WPP | Transformers | Mfg: Plastics | Other | ROB | end use | 8,924 | 1.6% | 0.02 | 15 | \$29 | 34% | 2.00 |
| FE-WPP | Air Compressor Demand Reduction | Mfg: Plastics | Process Air Compressor | Existing | end use | 599 | 26% | 0.02 | 10 | \$9.0 | 40% | 3.10 |
| FE-WPP | Air Compressor Demand Reduction | Mfg: Plastics | Process Air Compressor | New | end use | 599 | 26% | 0.02 | 10 | \$9.0 | 40% | 3.10 |
| FE-WPP | Facility Energy Management | Mfg: Plastics | Process Air Compressor | Existing | end use | 599 | 1.9% | 0.00 | 2 | \$0.2 | 50% | 1.10 |
| FE-WPP | Facility Energy Management | Mfg: Plastics | Process Air Compressor | New | end use | 599 | 1.8% | 0.00 | 2 | \$0.2 | 50% | 1.10 |
| FE-WPP | HE Compressor motors | Mfg: Plastics | Process Air Compressor | Early | end use | 599 | 1.1% | 0.00 | 15 | \$2.3 | 56% | 1.34 |
| FE-WPP | HE Compressor motors | Mfg: Plastics | Process Air Compressor | New | end use | 599 | 1.1% | 0.00 | 15 | \$2.3 | 56% | 1.35 |
| FE-WPP | HE Compressor motors | Mfg: Plastics | Process Air Compressor | ROB | end use | 599 | 1.1% | 0.00 | 15 | \$2.3 | 56% | 1.35 |
| FE-WPP | Improved Controls - Air Compressor | Mfg: Plastics | Process Air Compressor | Existing | end use | 599 | 41% | 0.03 | 10 | \$11 | 19% | 3.49 |
| FE-WPP | Improved Controls - Air Compressor | Mfg: Plastics | Process Air Compressor | New | end use | 599 | 41% | 0.03 | 10 | \$11 | 19% | 3.49 |
| FE-WPP | Low Pressure-drop Filters | Mfg: Plastics | Process Air Compressor | Existing | end use | 599 | 1.8% | 0.00 | 10 | \$6.8 | 46% | 0.58 |
| FE-WPP | Low Pressure-drop Filters | Mfg: Plastics | Process Air Compressor | New | end use | 599 | 1.8% | 0.00 | 10 | \$6.8 | 46% | 0.58 |
| FE-WPP | Outside Air Intake | Mfg: Plastics | Process Air Compressor | Existing | end use | 599 | 1.4% | 0.00 | 10 | \$3.9 | 37% | 0.75 |
| FE-WPP | Outside Air Intake | Mfg: Plastics | Process Air Compressor | New | end use | 599 | 1.4% | 0.00 | 10 | \$3.9 | 37% | 0.75 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---------------------------------------|---------------|------------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Receiver Capacity Addition | Mfg: Plastics | Process Air Compressor | Existing | end use | 599 | 6.0% | 0.00 | 10 | \$11 | 28% | 1.04 |
| FE-WPP | Receiver Capacity Addition | Mfg: Plastics | Process Air Compressor | New | end use | 599 | 6.0% | 0.00 | 10 | \$11 | 28% | 1.04 |
| FE-WPP | Refrigerated Cycling Dryers | Mfg: Plastics | Process Air Compressor | Early | end use | 599 | 1.7% | 0.00 | 10 | \$1.4 | 16% | 1.92 |
| FE-WPP | Refrigerated Cycling Dryers | Mfg: Plastics | Process Air Compressor | New | end use | 599 | 1.7% | 0.00 | 10 | \$1.4 | 16% | 1.93 |
| FE-WPP | Refrigerated Cycling Dryers | Mfg: Plastics | Process Air Compressor | ROB | end use | 599 | 1.7% | 0.00 | 10 | \$1.4 | 16% | 1.91 |
| FE-WPP | VFD Controlled Compressor | Mfg: Plastics | Process Air Compressor | Early | end use | 599 | 24% | 0.02 | 10 | \$59 | 22% | 0.82 |
| FE-WPP | VFD Controlled Compressor | Mfg: Plastics | Process Air Compressor | New | end use | 599 | 24% | 0.02 | 10 | \$59 | 22% | 0.82 |
| FE-WPP | VFD Controlled Compressor | Mfg: Plastics | Process Air Compressor | ROB | end use | 599 | 24% | 0.02 | 10 | \$59 | 22% | 0.82 |
| FE-WPP | Zero Loss Condensate Drain | Mfg: Plastics | Process Air Compressor | Early | end use | 599 | 1.9% | 0.00 | 10 | \$3.4 | 28% | 1.05 |
| FE-WPP | Zero Loss Condensate Drain | Mfg: Plastics | Process Air Compressor | New | end use | 599 | 1.8% | 0.00 | 10 | \$3.4 | 28% | 1.05 |
| FE-WPP | Zero Loss Condensate Drain | Mfg: Plastics | Process Air Compressor | ROB | end use | 599 | 1.8% | 0.00 | 10 | \$3.4 | 28% | 1.05 |
| FE-WPP | Clean Room: Change Filter Strategy | Mfg: Plastics | Process Cooling | Existing | end use | 23,253 | 40% | 1.94 | 1 | \$60 | 17% | 0.75 |
| FE-WPP | Clean Room: Change Filter Strategy | Mfg: Plastics | Process Cooling | New | end use | 23,253 | 40% | 1.94 | 1 | \$60 | 17% | 0.75 |
| FE-WPP | Clean Room: Chiller Optimize | Mfg: Plastics | Process Cooling | Existing | end use | 23,253 | 15% | 0.72 | 10 | \$281 | 27% | 2.82 |
| FE-WPP | Clean Room: Chiller Optimize | Mfg: Plastics | Process Cooling | New | end use | 23,253 | 15% | 0.72 | 10 | \$281 | 27% | 2.82 |
| FE-WPP | Clean Room: Clean Room HVAC | Mfg: Plastics | Process Cooling | Existing | end use | 23,253 | 9.0% | 0.44 | 15 | \$339 | 40% | 2.54 |
| FE-WPP | Clean Room: Clean Room HVAC | Mfg: Plastics | Process Cooling | New | end use | 23,253 | 9.0% | 0.44 | 15 | \$339 | 40% | 2.54 |
| FE-WPP | Cooling Tower Optimization | Mfg: Plastics | Process Cooling | Existing | building | 136,742 | 20% | 9.79 | 10 | \$839 | 15% | 4.90 |
| FE-WPP | Equipment: Chillers | Mfg: Plastics | Process Cooling | Early | end use | 23,253 | 18% | 0.87 | 15 | \$1,091 | 50% | 1.77 |
| FE-WPP | Equipment: Chillers | Mfg: Plastics | Process Cooling | New | end use | 23,253 | 18% | 0.87 | 15 | \$1,091 | 50% | 1.77 |
| FE-WPP | Equipment: Chillers | Mfg: Plastics | Process Cooling | ROB | end use | 23,253 | 18% | 0.87 | 15 | \$1,091 | 50% | 1.77 |
| FE-WPP | Facility Energy Management | Mfg: Plastics | Process Cooling | Existing | end use | 23,253 | 1.9% | 0.09 | 2 | \$9.0 | 63% | 1.17 |
| FE-WPP | Facility Energy Management | Mfg: Plastics | Process Cooling | New | end use | 23,253 | 1.9% | 0.09 | 2 | \$9.0 | 63% | 1.17 |
| FE-WPP | Improved Controls - Process Cooling | Mfg: Plastics | Process Cooling | Existing | end use | 23,253 | 6.0% | 0.29 | 10 | \$1,228 | 60% | 0.45 |
| FE-WPP | Improved Controls - Process Cooling | Mfg: Plastics | Process Cooling | New | end use | 23,253 | 6.0% | 0.29 | 10 | \$1,228 | 60% | 0.45 |
| FE-WPP | VFD on Cooling Tower Fan | Mfg: Plastics | Process Cooling | Early | motor | 136,742 | 21% | 8.62 | 15 | \$6,314 | 20% | 2.23 |
| FE-WPP | VFD on Cooling Tower Fan | Mfg: Plastics | Process Cooling | New | motor | 136,742 | 22% | 8.62 | 15 | \$6,435 | 20% | 2.22 |
| FE-WPP | VFD on Cooling Tower Fan | Mfg: Plastics | Process Cooling | ROB | motor | 136,742 | 22% | 8.62 | 15 | \$6,435 | 20% | 2.22 |
| FE-WPP | Improved Controls - Process Heating | Mfg: Plastics | Process Heating | Existing | end use | 53,234 | 17% | 1.25 | 10 | \$612 | 77% | 2.89 |
| FE-WPP | Improved Controls - Process Heating | Mfg: Plastics | Process Heating | New | end use | 53,234 | 17% | 1.25 | 10 | \$612 | 77% | 2.89 |
| FE-WPP | Process Heat O&M | Mfg: Plastics | Process Heating | Existing | end use | 53,234 | 16% | 1.18 | 2 | \$370 | 77% | 0.88 |
| FE-WPP | Process Heat O&M | Mfg: Plastics | Process Heating | New | end use | 53,234 | 16% | 1.18 | 2 | \$370 | 77% | 0.88 |
| FE-WPP | Facility Energy Management | Mfg: Plastics | Process Other | Existing | end use | 35,077 | 1.9% | 0.09 | 2 | \$14 | 73% | 1.10 |
| FE-WPP | Facility Energy Management | Mfg: Plastics | Process Other | New | end use | 35,077 | 1.9% | 0.09 | 2 | \$14 | 73% | 1.10 |
| FE-WPP | Adjustable speed drive on compressors | Mfg: Plastics | Process Refrigeration | Early | end use | 11,945 | 12% | 0.20 | 10 | \$221 | 30% | 1.77 |
| FE-WPP | Adjustable speed drive on compressors | Mfg: Plastics | Process Refrigeration | New | end use | 11,945 | 12% | 0.20 | 10 | \$221 | 30% | 1.78 |
| FE-WPP | Adjustable speed drive on compressors | Mfg: Plastics | Process Refrigeration | ROB | end use | 11,945 | 12% | 0.20 | 10 | \$221 | 30% | 1.78 |
| FE-WPP | Cooling Tower Optimization | Mfg: Plastics | Process Refrigeration | Existing | building | 70,243 | 20% | 5.03 | 10 | \$431 | 15% | 4.90 |
| FE-WPP | Optimization of operating parameters | Mfg: Plastics | Process Refrigeration | Existing | end use | 11,945 | 13% | 0.23 | 3 | \$96 | 27% | 1.11 |
| FE-WPP | Optimization of operating parameters | Mfg: Plastics | Process Refrigeration | New | end use | 11,945 | 13% | 0.23 | 3 | \$96 | 27% | 1.11 |
| FE-WPP | Synchronous Belts | Mfg: Plastics | Process Refrigeration | Early | end use | 11,945 | 1.2% | 0.02 | 10 | \$18 | 30% | 2.06 |
| FE-WPP | Synchronous Belts | Mfg: Plastics | Process Refrigeration | New | end use | 11,945 | 1.2% | 0.02 | 10 | \$18 | 30% | 2.06 |
| FE-WPP | Synchronous Belts | Mfg: Plastics | Process Refrigeration | ROB | end use | 11,945 | 1.2% | 0.02 | 10 | \$18 | 30% | 2.06 |
| FE-WPP | VFD on Cooling Tower Fan | Mfg: Plastics | Process Refrigeration | Early | motor | 70,243 | 21% | 4.43 | 15 | \$3,244 | 20% | 2.23 |
| FE-WPP | VFD on Cooling Tower Fan | Mfg: Plastics | Process Refrigeration | New | motor | 70,243 | 22% | 4.43 | 15 | \$3,305 | 20% | 2.22 |
| FE-WPP | VFD on Cooling Tower Fan | Mfg: Plastics | Process Refrigeration | ROB | motor | 70,243 | 22% | 4.43 | 15 | \$3,305 | 20% | 2.22 |
| FE-WPP | Facility Energy Management | Mfg: Plastics | Pumps | Existing | end use | 101,959 | 1.9% | 0.24 | 2 | \$39 | 65% | 1.13 |
| FE-WPP | Facility Energy Management | Mfg: Plastics | Pumps | New | end use | 101,959 | 1.9% | 0.24 | 2 | \$39 | 65% | 1.13 |
| FE-WPP | HE Motors | Mfg: Plastics | Pumps | Early | end use | 101,959 | 2.0% | 0.27 | 15 | \$607 | 69% | 1.53 |
| FE-WPP | HE Motors | Mfg: Plastics | Pumps | New | end use | 101,959 | 2.0% | 0.27 | 15 | \$607 | 69% | 1.53 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|--|---------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | HE Motors | Mfg: Plastics | Pumps | ROB | end use | 101,959 | 2.0% | 0.27 | 15 | \$607 | 69% | 1.53 |
| FE-WPP | Motor rewinds | Mfg: Plastics | Pumps | Existing | end use | 101,959 | 0.6% | 0.08 | 9 | \$145 | 11% | 1.23 |
| FE-WPP | Motor rewinds | Mfg: Plastics | Pumps | New | end use | 101,959 | 0.6% | 0.08 | 9 | \$145 | 11% | 1.22 |
| FE-WPP | Pump Equipment Upgrade | Mfg: Plastics | Pumps | Early | end use | 101,959 | 20% | 2.65 | 12 | \$2,549 | 77% | 2.34 |
| FE-WPP | Pump Equipment Upgrade | Mfg: Plastics | Pumps | New | end use | 101,959 | 20% | 2.65 | 12 | \$2,549 | 77% | 2.34 |
| FE-WPP | Pump Equipment Upgrade | Mfg: Plastics | Pumps | ROB | end use | 101,959 | 20% | 2.65 | 12 | \$2,549 | 77% | 2.34 |
| FE-WPP | Pump System Optimization | Mfg: Plastics | Pumps | Existing | end use | 101,959 | 8.7% | 1.15 | 12 | \$1,867 | 36% | 1.66 |
| FE-WPP | Pump System Optimization | Mfg: Plastics | Pumps | New | end use | 101,959 | 8.7% | 1.15 | 12 | \$1,867 | 36% | 1.66 |
| FE-WPP | Synchronous Belts | Mfg: Plastics | Pumps | Early | end use | 101,959 | 1.2% | 0.15 | 10 | \$150 | 57% | 2.03 |
| FE-WPP | Synchronous Belts | Mfg: Plastics | Pumps | New | end use | 101,959 | 1.2% | 0.15 | 10 | \$150 | 57% | 2.03 |
| FE-WPP | Synchronous Belts | Mfg: Plastics | Pumps | ROB | end use | 101,959 | 1.2% | 0.15 | 10 | \$150 | 57% | 2.03 |
| FE-WPP | <65k BTU/hr 14 SEER Air Conditioner | Mining | HVAC | Early | unit (ton) | 87,093 | 9.2% | 2.07 | 15 | \$15,872 | 28% | 0.31 |
| FE-WPP | <65k BTU/hr 14 SEER Air Conditioner | Mining | HVAC | New | unit (ton) | 87,093 | 4.1% | 0.93 | 15 | \$3,846 | 28% | 0.56 |
| FE-WPP | <65k BTU/hr 14 SEER Air Conditioner | Mining | HVAC | ROB | unit (ton) | 87,093 | 4.1% | 0.93 | 15 | \$3,846 | 28% | 0.56 |
| FE-WPP | <65k BTU/hr 15 SEER Air Conditioner | Mining | HVAC | Early | unit (ton) | 87,093 | 12% | 2.80 | 15 | \$18,712 | 28% | 0.36 |
| FE-WPP | <65k BTU/hr 15 SEER Air Conditioner | Mining | HVAC | New | unit (ton) | 87,093 | 7.7% | 1.74 | 15 | \$8,099 | 28% | 0.50 |
| FE-WPP | <65k BTU/hr 15 SEER Air Conditioner | Mining | HVAC | ROB | unit (ton) | 87,093 | 7.7% | 1.74 | 15 | \$8,099 | 28% | 0.50 |
| FE-WPP | <65k BTU/hr 16 SEER Air Conditioner | Mining | HVAC | Early | unit (ton) | 87,093 | 15% | 3.44 | 15 | \$21,551 | 29% | 0.38 |
| FE-WPP | <65k BTU/hr 16 SEER Air Conditioner | Mining | HVAC | New | unit (ton) | 87,093 | 11% | 2.44 | 15 | \$12,353 | 29% | 0.47 |
| FE-WPP | <65k BTU/hr 16 SEER Air Conditioner | Mining | HVAC | ROB | unit (ton) | 87,093 | 11% | 2.44 | 15 | \$12,353 | 29% | 0.47 |
| FE-WPP | >760k min 10.2 EER Air Conditioner | Mining | HVAC | Early | unit (ton) | 87,093 | 2.1% | 0.48 | 15 | \$27,640 | 35% | 0.04 |
| FE-WPP | >760k min 10.2 EER Air Conditioner | Mining | HVAC | New | unit (ton) | 87,093 | 2.8% | 0.64 | 15 | \$2,498 | 35% | 0.59 |
| FE-WPP | >760k min 10.2 EER Air Conditioner | Mining | HVAC | ROB | unit (ton) | 87,093 | 2.8% | 0.64 | 15 | \$2,498 | 35% | 0.59 |
| FE-WPP | 135-240k min 12 EER Air Conditioner | Mining | HVAC | Early | unit (ton) | 87,093 | 10% | 2.36 | 15 | \$29,930 | 35% | 0.19 |
| FE-WPP | 135-240k min 12 EER Air Conditioner | Mining | HVAC | New | unit (ton) | 87,093 | 5.8% | 1.30 | 15 | \$3,534 | 35% | 0.83 |
| FE-WPP | 135-240k min 12 EER Air Conditioner | Mining | HVAC | ROB | unit (ton) | 87,093 | 5.8% | 1.30 | 15 | \$3,534 | 35% | 0.83 |
| FE-WPP | 240k-760k min 11 EER Air Conditioner | Mining | HVAC | Early | unit (ton) | 87,093 | 5.2% | 1.18 | 15 | \$27,658 | 35% | 0.10 |
| FE-WPP | 240k-760k min 11 EER Air Conditioner | Mining | HVAC | New | unit (ton) | 87,093 | 5.3% | 1.21 | 15 | \$2,963 | 35% | 0.91 |
| FE-WPP | 240k-760k min 11 EER Air Conditioner | Mining | HVAC | ROB | unit (ton) | 87,093 | 5.3% | 1.21 | 15 | \$2,963 | 35% | 0.91 |
| FE-WPP | 65k-135k BTU/hr 12 EER Air Conditioner | Mining | HVAC | Early | unit (ton) | 87,093 | 9.7% | 2.19 | 15 | \$30,646 | 35% | 0.17 |
| FE-WPP | 65k-135k BTU/hr 12 EER Air Conditioner | Mining | HVAC | New | unit (ton) | 87,093 | 3.8% | 0.87 | 15 | \$4,372 | 35% | 0.47 |
| FE-WPP | 65k-135k BTU/hr 12 EER Air Conditioner | Mining | HVAC | ROB | unit (ton) | 87,093 | 3.8% | 0.87 | 15 | \$4,372 | 35% | 0.47 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Mining | HVAC | Existing | building | 87,093 | 5.9% | 1.29 | 15 | \$263,878 | 71% | 0.01 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Mining | HVAC | New | building | 87,093 | 3.7% | 0.81 | 15 | \$250,824 | 94% | 0.01 |
| FE-WPP | Chiller Tuneup/Diagnostics | Mining | HVAC | Existing | building | 87,093 | 8.0% | 2.55 | 10 | \$222,388 | 59% | 0.02 |
| FE-WPP | Chiller Tuneup/Diagnostics | Mining | HVAC | New | building | 87,093 | 8.0% | 2.56 | 10 | \$222,388 | 59% | 0.02 |
| FE-WPP | Cooling Tower Optimization | Mining | HVAC | Existing | building | 87,093 | 20% | 6.23 | 10 | \$534 | 69% | 5.07 |
| FE-WPP | Duct Insulation, Add R8 | Mining | HVAC | Existing | building | 87,093 | 1.5% | 0.28 | 15 | \$692 | 18% | 1.05 |
| FE-WPP | Duct Insulation, Add R8 | Mining | HVAC | New | building | 87,093 | 1.5% | 0.28 | 15 | \$692 | 9% | 1.05 |
| FE-WPP | Ductless Heat Pump | Mining | HVAC | Early | heat pump | 87,093 | 0.8% | 0.16 | 15 | \$6,886 | 83% | 0.06 |
| FE-WPP | Ductless Heat Pump | Mining | HVAC | New | heat pump | 87,093 | 0.4% | 0.09 | 15 | \$2,000 | 83% | 0.12 |
| FE-WPP | Ductless Heat Pump | Mining | HVAC | ROB | heat pump | 87,093 | 0.4% | 0.09 | 15 | \$2,000 | 83% | 0.12 |
| FE-WPP | DX Coil Cleaning | Mining | HVAC | Existing | building | 87,093 | 13% | 4.00 | 1 | \$835 | 73% | 0.45 |
| FE-WPP | DX Coil Cleaning | Mining | HVAC | New | building | 87,093 | 13% | 3.99 | 1 | \$835 | 73% | 0.45 |
| FE-WPP | Efficient Unit Heating System | Mining | HVAC | Early | heater | 87,093 | 6.9% | 0.05 | 15 | \$4,702 | 83% | 0.59 |
| FE-WPP | Efficient Unit Heating System | Mining | HVAC | New | heater | 87,093 | 4.0% | 0.03 | 15 | \$3,207 | 83% | 0.50 |
| FE-WPP | Efficient Unit Heating System | Mining | HVAC | ROB | heater | 87,093 | 4.0% | 0.03 | 15 | \$3,207 | 83% | 0.50 |
| FE-WPP | Ground Source Heat Pump (Closed Loop) | Mining | HVAC | Early | heat pump | 87,093 | 1.3% | 0.25 | 15 | \$14,297 | 19% | 0.05 |
| FE-WPP | Ground Source Heat Pump (Closed Loop) | Mining | HVAC | New | heat pump | 87,093 | 1.0% | 0.20 | 15 | \$5,645 | 19% | 0.10 |
| FE-WPP | Ground Source Heat Pump (Closed Loop) | Mining | HVAC | ROB | heat pump | 87,093 | 1.0% | 0.20 | 15 | \$5,645 | 19% | 0.10 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|---------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Ground Source Heat Pump (Open Loop) | Mining | HVAC | Early | heat pump | 87,093 | 1.3% | 0.25 | 15 | \$9,157 | 19% | 0.08 |
| FE-WPP | Ground Source Heat Pump (Open Loop) | Mining | HVAC | New | heat pump | 87,093 | 1.0% | 0.20 | 15 | \$194 | 19% | 2.16 |
| FE-WPP | Ground Source Heat Pump (Open Loop) | Mining | HVAC | ROB | heat pump | 87,093 | 1.0% | 0.20 | 15 | \$194 | 19% | 2.16 |
| FE-WPP | HE Air Cooled Chiller, 100 Tons | Mining | HVAC | Early | unit (ton) | 87,093 | 1.5% | 0.29 | 15 | \$101,312 | 89% | 0.01 |
| FE-WPP | HE Air Cooled Chiller, 100 Tons | Mining | HVAC | New | unit (ton) | 87,093 | 0.4% | 0.08 | 15 | \$14,759 | 89% | 0.02 |
| FE-WPP | HE Air Cooled Chiller, 100 Tons | Mining | HVAC | ROB | unit (ton) | 87,093 | 0.4% | 0.08 | 15 | \$14,759 | 89% | 0.02 |
| FE-WPP | HE Air Cooled Chiller, 150 Tons | Mining | HVAC | Early | unit (ton) | 87,093 | 1.4% | 0.28 | 15 | \$87,511 | 89% | 0.01 |
| FE-WPP | HE Air Cooled Chiller, 150 Tons | Mining | HVAC | New | unit (ton) | 87,093 | 0.3% | 0.06 | 15 | \$7,248 | 89% | 0.02 |
| FE-WPP | HE Air Cooled Chiller, 150 Tons | Mining | HVAC | ROB | unit (ton) | 87,093 | 0.3% | 0.06 | 15 | \$7,248 | 89% | 0.02 |
| FE-WPP | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mining | HVAC | Early | heat pump | 87,093 | 1.4% | 0.27 | 12 | \$3,732 | 81% | 0.16 |
| FE-WPP | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mining | HVAC | Early | heat pump | 87,093 | 1.1% | 0.22 | 12 | \$2,727 | 81% | 0.18 |
| FE-WPP | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mining | HVAC | New | heat pump | 87,093 | 1.0% | 0.20 | 12 | \$1,666 | 81% | 0.26 |
| FE-WPP | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mining | HVAC | New | heat pump | 87,093 | 0.8% | 0.15 | 12 | \$582 | 81% | 0.54 |
| FE-WPP | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mining | HVAC | ROB | heat pump | 87,093 | 1.0% | 0.20 | 12 | \$1,666 | 81% | 0.26 |
| FE-WPP | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mining | HVAC | ROB | heat pump | 87,093 | 0.8% | 0.15 | 12 | \$582 | 81% | 0.54 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 175 Tons | Mining | HVAC | Early | unit (ton) | 87,093 | 1.6% | 0.31 | 15 | \$8,039 | 89% | 0.11 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 175 Tons | Mining | HVAC | New | unit (ton) | 87,093 | 0.9% | 0.18 | 15 | \$2,674 | 89% | 0.18 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 175 Tons | Mining | HVAC | ROB | unit (ton) | 87,093 | 0.9% | 0.18 | 15 | \$2,674 | 89% | 0.18 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 300 Tons | Mining | HVAC | Early | unit (ton) | 87,093 | 1.4% | 0.28 | 15 | \$7,851 | 89% | 0.10 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 300 Tons | Mining | HVAC | New | unit (ton) | 87,093 | 1.0% | 0.19 | 15 | \$1,533 | 89% | 0.34 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 300 Tons | Mining | HVAC | ROB | unit (ton) | 87,093 | 1.4% | 0.28 | 15 | \$1,408 | 89% | 0.51 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 500 Tons | Mining | HVAC | Early | unit (ton) | 87,093 | 1.4% | 0.27 | 15 | \$9,292 | 89% | 0.08 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 500 Tons | Mining | HVAC | New | unit (ton) | 87,093 | 0.9% | 0.17 | 15 | \$3,912 | 89% | 0.12 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 500 Tons | Mining | HVAC | ROB | unit (ton) | 87,093 | 1.4% | 0.27 | 15 | \$3,541 | 89% | 0.21 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 600 Tons | Mining | HVAC | Early | unit (ton) | 87,093 | 1.4% | 0.27 | 15 | \$8,951 | 89% | 0.08 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 600 Tons | Mining | HVAC | New | unit (ton) | 87,093 | 0.9% | 0.17 | 15 | \$3,401 | 89% | 0.14 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 600 Tons | Mining | HVAC | ROB | unit (ton) | 87,093 | 1.4% | 0.27 | 15 | \$3,078 | 89% | 0.24 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 100 Tons | Mining | HVAC | Early | unit (ton) | 87,093 | 1.8% | 0.35 | 15 | \$9,644 | 89% | 0.10 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 100 Tons | Mining | HVAC | New | unit (ton) | 87,093 | 0.5% | 0.11 | 15 | \$5,972 | 89% | 0.05 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 100 Tons | Mining | HVAC | ROB | unit (ton) | 87,093 | 1.8% | 0.35 | 15 | \$4,637 | 89% | 0.21 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 175 Tons | Mining | HVAC | Early | unit (ton) | 87,093 | 2.1% | 0.42 | 15 | \$8,871 | 89% | 0.13 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 175 Tons | Mining | HVAC | New | unit (ton) | 87,093 | 0.8% | 0.15 | 15 | \$3,560 | 89% | 0.12 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 175 Tons | Mining | HVAC | ROB | unit (ton) | 87,093 | 0.8% | 0.15 | 15 | \$3,560 | 89% | 0.12 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 300 Tons | Mining | HVAC | Early | unit (ton) | 87,093 | 2.4% | 0.47 | 15 | \$7,518 | 89% | 0.17 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 300 Tons | Mining | HVAC | New | unit (ton) | 87,093 | 0.9% | 0.18 | 15 | \$1,892 | 89% | 0.25 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 300 Tons | Mining | HVAC | ROB | unit (ton) | 87,093 | 2.4% | 0.47 | 15 | \$1,349 | 89% | 0.87 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 50 Tons | Mining | HVAC | Early | unit (ton) | 87,093 | 1.8% | 0.36 | 15 | \$7,443 | 89% | 0.13 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 50 Tons | Mining | HVAC | New | unit (ton) | 87,093 | 0.7% | 0.13 | 15 | \$2,084 | 89% | 0.17 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 50 Tons | Mining | HVAC | ROB | unit (ton) | 87,093 | 1.8% | 0.36 | 15 | \$1,651 | 89% | 0.56 |
| FE-WPP | HVAC Diagnostic/Air Conditioner Tune Up | Mining | HVAC | Existing | building | 87,093 | 2.9% | 0.51 | 5 | \$924 | 55% | 0.58 |
| FE-WPP | HVAC Diagnostic/Air Conditioner Tune Up | Mining | HVAC | New | building | 87,093 | 0.6% | 0.20 | 5 | \$554 | 51% | 0.28 |
| FE-WPP | Outside Air Economizer | Mining | HVAC | Existing | building | 87,093 | 1.1% | 0.24 | 10 | \$319,996 | 82% | 0.00 |
| FE-WPP | Outside Air Economizer | Mining | HVAC | New | building | 87,093 | 1.1% | 0.24 | 10 | \$319,996 | 82% | 0.00 |
| FE-WPP | Room AC (with louvered sides) | Mining | HVAC | Early | unit (ton) | 87,093 | 7.7% | 1.51 | 9 | \$6,829 | 78% | 0.39 |
| FE-WPP | Room AC (with louvered sides) | Mining | HVAC | New | unit (ton) | 87,093 | 2.6% | 0.50 | 9 | \$374 | 78% | 1.77 |
| FE-WPP | Room AC (with louvered sides) | Mining | HVAC | ROB | unit (ton) | 87,093 | 2.6% | 0.50 | 9 | \$374 | 78% | 1.77 |
| FE-WPP | Variable Refrigerant Flow Heat Pump | Mining | HVAC | New | measure | 87,093 | 0.1% | 0.02 | 13 | \$641 | 43% | 0.09 |
| FE-WPP | Variable Refrigerant Flow Heat Pump | Mining | HVAC | ROB | measure | 87,093 | 0.1% | 0.02 | 13 | \$641 | 43% | 0.09 |
| FE-WPP | VFD on Cooling Tower Fan | Mining | HVAC | Early | motor | 87,093 | 21% | 5.49 | 15 | \$4,022 | 15% | 2.32 |
| FE-WPP | VFD on Cooling Tower Fan | Mining | HVAC | New | motor | 87,093 | 22% | 5.49 | 15 | \$4,098 | 15% | 2.31 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---------------------------------------|---------|----------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | VFD on Cooling Tower Fan | Mining | HVAC | ROB | motor | 87,093 | 22% | 5.49 | 15 | \$4,098 | 15% | 2.31 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Mining | HVAC | Existing | building | 87,093 | 19% | 4.16 | 15 | \$61,955 | 26% | 0.17 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Mining | HVAC | New | building | 87,093 | 0.6% | 0.13 | 15 | \$47,522 | 94% | 0.01 |
| FE-WPP | Water Source Heat Pump (4 ton) | Mining | HVAC | Early | heat pump | 87,093 | 1.5% | 0.30 | 15 | \$14,805 | 28% | 0.06 |
| FE-WPP | Water Source Heat Pump (4 ton) | Mining | HVAC | New | heat pump | 87,093 | 1.1% | 0.22 | 15 | \$7,216 | 28% | 0.08 |
| FE-WPP | Water Source Heat Pump (4 ton) | Mining | HVAC | ROB | heat pump | 87,093 | 1.1% | 0.22 | 15 | \$7,216 | 28% | 0.08 |
| FE-WPP | Efficient Metal Halide (High Bay) | Mining | Lighting | Early | end use | 70,760 | 42% | 0.00 | 9 | \$11,057 | 53% | 0.73 |
| FE-WPP | Efficient Metal Halide (High Bay) | Mining | Lighting | New | end use | 70,760 | 41% | 0.00 | 13 | \$295,337 | 61% | 0.04 |
| FE-WPP | Efficient Metal Halide (High Bay) | Mining | Lighting | ROB | end use | 70,760 | 41% | 0.00 | 13 | \$225,713 | 61% | 0.06 |
| FE-WPP | Induction (High Bay) | Mining | Lighting | Early | end use | 70,760 | 94% | 0.00 | 13 | \$32,900 | 95% | 0.77 |
| FE-WPP | Induction (High Bay) | Mining | Lighting | New | end use | 70,760 | 94% | 0.00 | 13 | \$30,802 | 95% | 0.81 |
| FE-WPP | Induction (High Bay) | Mining | Lighting | ROB | end use | 70,760 | 94% | 0.00 | 13 | \$23,411 | 95% | 1.02 |
| FE-WPP | LED (High Bay) | Mining | Lighting | Early | end use | 70,760 | 69% | 0.00 | 14 | \$38,727 | 95% | 0.53 |
| FE-WPP | LED (High Bay) | Mining | Lighting | New | end use | 70,760 | 55% | 0.00 | 14 | \$42,986 | 95% | 0.39 |
| FE-WPP | LED (High Bay) | Mining | Lighting | ROB | end use | 70,760 | 59% | 0.00 | 14 | \$28,323 | 95% | 0.61 |
| FE-WPP | Lighting Controls | Mining | Lighting | Existing | end use | 70,760 | 20% | 0.00 | 6 | \$265,270 | 16% | 0.01 |
| FE-WPP | Lighting Controls | Mining | Lighting | New | end use | 70,760 | 12% | 0.00 | 10 | \$352,895 | 11% | 0.01 |
| FE-WPP | Linear Fluorescent (High Bay) | Mining | Lighting | Early | end use | 70,760 | 17% | 0.00 | 14 | \$8,096 | 98% | 0.61 |
| FE-WPP | Linear Fluorescent (High Bay) | Mining | Lighting | New | end use | 70,760 | 13% | 0.00 | 14 | \$2,568 | 91% | 1.29 |
| FE-WPP | Linear Fluorescent (High Bay) | Mining | Lighting | ROB | end use | 70,760 | 13% | 0.00 | 14 | \$1,644 | 91% | 1.87 |
| FE-WPP | Metal Halide (High Bay) | Mining | Lighting | Early | end use | 70,760 | 62% | 0.00 | 13 | \$48,643 | 38% | 0.37 |
| FE-WPP | Metal Halide (High Bay) | Mining | Lighting | New | end use | 70,760 | 73% | 0.00 | 13 | \$11,630 | 38% | 1.46 |
| FE-WPP | Metal Halide (High Bay) | Mining | Lighting | ROB | end use | 70,760 | 73% | 0.00 | 13 | \$8,839 | 38% | 1.78 |
| FE-WPP | Screw Base CFL | Mining | Lighting | Early | end use | 70,760 | 80% | 0.00 | 7 | \$19,224 | 17% | 0.64 |
| FE-WPP | Screw Base CFL | Mining | Lighting | New | end use | 70,760 | 73% | 0.00 | 9 | \$15,711 | 18% | 0.86 |
| FE-WPP | Screw Base CFL | Mining | Lighting | ROB | end use | 70,760 | 73% | 0.00 | 9 | \$13,150 | 17% | 0.99 |
| FE-WPP | Screw Base LED | Mining | Lighting | Early | end use | 70,760 | 76% | 0.00 | 9 | \$11,798 | 21% | 1.15 |
| FE-WPP | Screw Base LED | Mining | Lighting | New | end use | 70,760 | 77% | 0.00 | 9 | \$6,572 | 20% | 1.75 |
| FE-WPP | Screw Base LED | Mining | Lighting | ROB | end use | 70,760 | 77% | 0.00 | 9 | \$5,217 | 21% | 2.01 |
| FE-WPP | T8 High Performance Linear Florescent | Mining | Lighting | Early | end use | 70,760 | 36% | 0.00 | 14 | \$6,771 | 71% | 1.37 |
| FE-WPP | T8 High Performance Linear Florescent | Mining | Lighting | New | end use | 70,760 | 26% | 0.00 | 14 | \$2,423 | 76% | 2.31 |
| FE-WPP | T8 High Performance Linear Florescent | Mining | Lighting | ROB | end use | 70,760 | 26% | 0.00 | 14 | \$1,841 | 76% | 2.73 |
| FE-WPP | Enhanced (Ultra-PE) Motor 1-15 HP | Mining | Motors | Early | end use | 17,156 | 0.9% | 0.02 | 15 | \$262 | 81% | 0.32 |
| FE-WPP | Enhanced (Ultra-PE) Motor 1-15 HP | Mining | Motors | New | end use | 17,156 | 0.9% | 0.02 | 15 | \$262 | 81% | 0.33 |
| FE-WPP | Enhanced (Ultra-PE) Motor 1-15 HP | Mining | Motors | ROB | end use | 17,156 | 0.9% | 0.02 | 15 | \$262 | 81% | 0.32 |
| FE-WPP | Enhanced (Ultra-PE) Motor 125-200 HP | Mining | Motors | Early | end use | 17,156 | 0.8% | 0.02 | 15 | \$159 | 73% | 0.43 |
| FE-WPP | Enhanced (Ultra-PE) Motor 125-200 HP | Mining | Motors | New | end use | 17,156 | 0.8% | 0.02 | 15 | \$159 | 73% | 0.43 |
| FE-WPP | Enhanced (Ultra-PE) Motor 125-200 HP | Mining | Motors | ROB | end use | 17,156 | 0.8% | 0.02 | 15 | \$159 | 73% | 0.43 |
| FE-WPP | Enhanced (Ultra-PE) Motor 20-40 HP | Mining | Motors | Early | end use | 17,156 | 0.5% | 0.01 | 15 | \$61 | 81% | 0.67 |
| FE-WPP | Enhanced (Ultra-PE) Motor 20-40 HP | Mining | Motors | New | end use | 17,156 | 0.5% | 0.01 | 15 | \$61 | 81% | 0.65 |
| FE-WPP | Enhanced (Ultra-PE) Motor 20-40 HP | Mining | Motors | ROB | end use | 17,156 | 0.4% | 0.01 | 15 | \$61 | 81% | 0.65 |
| FE-WPP | Enhanced (Ultra-PE) Motor 250-500 HP | Mining | Motors | Early | end use | 17,156 | 0.4% | 0.01 | 15 | \$20 | 73% | 1.51 |
| FE-WPP | Enhanced (Ultra-PE) Motor 250-500 HP | Mining | Motors | New | end use | 17,156 | 0.4% | 0.01 | 15 | \$20 | 73% | 1.54 |
| FE-WPP | Enhanced (Ultra-PE) Motor 250-500 HP | Mining | Motors | ROB | end use | 17,156 | 0.4% | 0.01 | 15 | \$20 | 73% | 1.56 |
| FE-WPP | Enhanced (Ultra-PE) Motor 50-100 HP | Mining | Motors | Early | end use | 17,156 | 0.9% | 0.02 | 15 | \$30 | 47% | 2.16 |
| FE-WPP | Enhanced (Ultra-PE) Motor 50-100 HP | Mining | Motors | New | end use | 17,156 | 0.9% | 0.02 | 15 | \$30 | 47% | 2.16 |
| FE-WPP | Enhanced (Ultra-PE) Motor 50-100 HP | Mining | Motors | ROB | end use | 17,156 | 0.9% | 0.02 | 15 | \$30 | 47% | 2.14 |
| FE-WPP | HE Motors | Mining | Motors | Early | end use | 17,156 | 2.0% | 0.05 | 15 | \$102 | 38% | 1.55 |
| FE-WPP | HE Motors | Mining | Motors | New | end use | 17,156 | 2.0% | 0.05 | 15 | \$102 | 38% | 1.55 |
| FE-WPP | HE Motors | Mining | Motors | ROB | end use | 17,156 | 2.0% | 0.05 | 15 | \$102 | 38% | 1.55 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|---------------|------------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Improved Controls - Motors | Mining | Motors | Existing | end use | 17,156 | 4.0% | 0.10 | 10 | \$75 | 13% | 2.24 |
| FE-WPP | Improved Controls - Motors | Mining | Motors | New | end use | 17,156 | 4.0% | 0.10 | 10 | \$75 | 13% | 2.24 |
| FE-WPP | Material Handling | Mining | Motors | Early | end use | 17,156 | 18% | 0.45 | 10 | \$829 | 77% | 1.21 |
| FE-WPP | Material Handling | Mining | Motors | New | end use | 17,156 | 18% | 0.45 | 10 | \$829 | 77% | 1.21 |
| FE-WPP | Material Handling | Mining | Motors | ROB | end use | 17,156 | 18% | 0.45 | 10 | \$829 | 77% | 1.21 |
| FE-WPP | Material Handling VFD | Mining | Motors | Early | end use | 17,156 | 16% | 0.40 | 10 | \$574 | 77% | 1.46 |
| FE-WPP | Material Handling VFD | Mining | Motors | New | end use | 17,156 | 16% | 0.40 | 10 | \$574 | 77% | 1.46 |
| FE-WPP | Material Handling VFD | Mining | Motors | ROB | end use | 17,156 | 16% | 0.40 | 10 | \$574 | 77% | 1.46 |
| FE-WPP | Motor Management Plan | Mining | Motors | Existing | end use | 17,156 | 2.9% | 0.07 | 10 | \$35 | 73% | 2.87 |
| FE-WPP | Motor Management Plan | Mining | Motors | New | end use | 17,156 | 2.9% | 0.07 | 10 | \$35 | 73% | 2.87 |
| FE-WPP | Motors Other | Mining | Motors | Existing | end use | 17,156 | 1.1% | 0.03 | 15 | \$3.4 | 83% | 6.32 |
| FE-WPP | Motors Other | Mining | Motors | New | end use | 17,156 | 1.1% | 0.03 | 15 | \$3.4 | 83% | 6.32 |
| FE-WPP | Motors: Rewind 101-200 HP | Mining | Motors | Existing | end use | 17,156 | 0.6% | 0.01 | 10 | \$22 | 27% | 1.38 |
| FE-WPP | Motors: Rewind 101-200 HP | Mining | Motors | New | end use | 17,156 | 0.6% | 0.01 | 10 | \$22 | 27% | 1.36 |
| FE-WPP | Motors: Rewind 201-500 HP | Mining | Motors | Existing | end use | 17,156 | 0.6% | 0.01 | 8 | \$14 | 27% | 1.61 |
| FE-WPP | Motors: Rewind 201-500 HP | Mining | Motors | New | end use | 17,156 | 0.6% | 0.01 | 8 | \$14 | 27% | 1.61 |
| FE-WPP | Motors: Rewind 20-50 HP | Mining | Motors | Existing | end use | 17,156 | 1.0% | 0.03 | 11 | \$64 | 42% | 1.03 |
| FE-WPP | Motors: Rewind 20-50 HP | Mining | Motors | New | end use | 17,156 | 1.0% | 0.03 | 11 | \$64 | 42% | 1.02 |
| FE-WPP | Motors: Rewind 500+ HP | Mining | Motors | Existing | end use | 17,156 | 0.6% | 0.01 | 8 | \$9.7 | 11% | 2.01 |
| FE-WPP | Motors: Rewind 500+ HP | Mining | Motors | New | end use | 17,156 | 0.6% | 0.01 | 8 | \$9.7 | 11% | 2.00 |
| FE-WPP | Motors: Rewind 51-100 HP | Mining | Motors | Existing | end use | 17,156 | 0.6% | 0.01 | 9 | \$31 | 42% | 1.01 |
| FE-WPP | Motors: Rewind 51-100 HP | Mining | Motors | New | end use | 17,156 | 0.6% | 0.01 | 9 | \$31 | 42% | 1.00 |
| FE-WPP | Switch from Belt drive to Direct Drive | Mining | Motors | Early | end use | 17,156 | 7.5% | 0.18 | 12 | \$275 | 30% | 1.63 |
| FE-WPP | Switch from Belt drive to Direct Drive | Mining | Motors | New | end use | 17,156 | 7.5% | 0.18 | 12 | \$275 | 30% | 1.63 |
| FE-WPP | Switch from Belt drive to Direct Drive | Mining | Motors | ROB | end use | 17,156 | 7.5% | 0.18 | 12 | \$275 | 30% | 1.63 |
| FE-WPP | Synchronous Belts | Mining | Motors | Early | end use | 17,156 | 1.2% | 0.03 | 10 | \$25 | 30% | 2.05 |
| FE-WPP | Synchronous Belts | Mining | Motors | New | end use | 17,156 | 1.2% | 0.03 | 10 | \$25 | 30% | 2.05 |
| FE-WPP | Synchronous Belts | Mining | Motors | ROB | end use | 17,156 | 1.2% | 0.03 | 10 | \$25 | 30% | 2.05 |
| FE-WPP | Air Compressor Demand Reduction | Mining | Process Air Compressor | Existing | end use | 382 | 26% | 0.01 | 10 | \$5.7 | 52% | 3.10 |
| FE-WPP | Air Compressor Demand Reduction | Mining | Process Air Compressor | New | end use | 382 | 26% | 0.01 | 10 | \$5.7 | 52% | 3.10 |
| FE-WPP | Cooling Tower Optimization | Mining | Process Cooling | Existing | building | 42,655 | 20% | 3.05 | 10 | \$262 | 15% | 4.90 |
| FE-WPP | VFD on Cooling Tower Fan | Mining | Process Cooling | Early | motor | 42,655 | 21% | 2.69 | 15 | \$1,970 | 20% | 2.23 |
| FE-WPP | VFD on Cooling Tower Fan | Mining | Process Cooling | New | motor | 42,655 | 22% | 2.69 | 15 | \$2,007 | 20% | 2.22 |
| FE-WPP | VFD on Cooling Tower Fan | Mining | Process Cooling | ROB | motor | 42,655 | 22% | 2.69 | 15 | \$2,007 | 20% | 2.22 |
| FE-WPP | Cooling Tower Optimization | Mining | Process Refrigeration | Existing | building | 21,912 | 20% | 1.57 | 10 | \$134 | 15% | 4.90 |
| FE-WPP | VFD on Cooling Tower Fan | Mining | Process Refrigeration | Early | motor | 21,912 | 21% | 1.38 | 15 | \$1,012 | 20% | 2.23 |
| FE-WPP | VFD on Cooling Tower Fan | Mining | Process Refrigeration | New | motor | 21,912 | 22% | 1.38 | 15 | \$1,031 | 20% | 2.22 |
| FE-WPP | VFD on Cooling Tower Fan | Mining | Process Refrigeration | ROB | motor | 21,912 | 22% | 1.38 | 15 | \$1,031 | 20% | 2.22 |
| FE-WPP | Agricultural Exhaust Fans (Rate 21 CFM) | Other Non-Mfg | Fans | Early | end use | 9,031 | 5.0% | 0.05 | 15 | \$115 | 11% | 1.73 |
| FE-WPP | Agricultural Exhaust Fans (Rate 21 CFM) | Other Non-Mfg | Fans | New | end use | 9,031 | 5.0% | 0.05 | 15 | \$115 | 11% | 1.73 |
| FE-WPP | Agricultural Exhaust Fans (Rate 21 CFM) | Other Non-Mfg | Fans | ROB | end use | 9,031 | 5.0% | 0.05 | 15 | \$115 | 11% | 1.73 |
| FE-WPP | Circulating Fans | Other Non-Mfg | Fans | Early | end use | 9,031 | 5.0% | 0.05 | 10 | \$55 | 53% | 2.10 |
| FE-WPP | Circulating Fans | Other Non-Mfg | Fans | New | end use | 9,031 | 5.0% | 0.05 | 10 | \$55 | 53% | 2.10 |
| FE-WPP | Circulating Fans | Other Non-Mfg | Fans | ROB | end use | 9,031 | 5.0% | 0.05 | 10 | \$55 | 53% | 2.10 |
| FE-WPP | Facility Energy Management | Other Non-Mfg | Fans | Existing | end use | 9,031 | 1.9% | 0.02 | 2 | \$3.5 | 61% | 1.12 |
| FE-WPP | Facility Energy Management | Other Non-Mfg | Fans | New | end use | 9,031 | 1.9% | 0.02 | 2 | \$3.5 | 61% | 1.12 |
| FE-WPP | Fan Equipment Upgrade | Other Non-Mfg | Fans | Early | end use | 9,031 | 35% | 0.38 | 10 | \$271 | 53% | 2.59 |
| FE-WPP | Fan Equipment Upgrade | Other Non-Mfg | Fans | New | end use | 9,031 | 35% | 0.38 | 10 | \$271 | 53% | 2.59 |
| FE-WPP | Fan Equipment Upgrade | Other Non-Mfg | Fans | ROB | end use | 9,031 | 35% | 0.38 | 10 | \$271 | 53% | 2.59 |
| FE-WPP | Fan System Optimization | Other Non-Mfg | Fans | Existing | end use | 9,031 | 7.3% | 0.08 | 10 | \$123 | 66% | 1.57 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|--|---------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Fan System Optimization | Other Non-Mfg | Fans | New | end use | 9,031 | 7.3% | 0.08 | 10 | \$123 | 66% | 1.57 |
| FE-WPP | HE Motors | Other Non-Mfg | Fans | Early | end use | 9,031 | 2.0% | 0.02 | 15 | \$54 | 61% | 1.55 |
| FE-WPP | HE Motors | Other Non-Mfg | Fans | New | end use | 9,031 | 2.0% | 0.02 | 15 | \$54 | 61% | 1.55 |
| FE-WPP | HE Motors | Other Non-Mfg | Fans | ROB | end use | 9,031 | 2.0% | 0.02 | 15 | \$54 | 61% | 1.55 |
| FE-WPP | High Volume Low Speed Fans | Other Non-Mfg | Fans | Early | end use | 9,031 | 47% | 0.50 | 15 | \$6,789 | 53% | 0.33 |
| FE-WPP | High Volume Low Speed Fans | Other Non-Mfg | Fans | New | end use | 9,031 | 47% | 0.50 | 15 | \$6,789 | 53% | 0.33 |
| FE-WPP | High Volume Low Speed Fans | Other Non-Mfg | Fans | ROB | end use | 9,031 | 47% | 0.50 | 15 | \$6,789 | 53% | 0.33 |
| FE-WPP | Improved Controls - Fans | Other Non-Mfg | Fans | Existing | end use | 9,031 | 7.1% | 0.08 | 10 | \$35 | 69% | 3.23 |
| FE-WPP | Improved Controls - Fans | Other Non-Mfg | Fans | New | end use | 9,031 | 7.1% | 0.08 | 10 | \$35 | 69% | 3.23 |
| FE-WPP | Properly Sized Fans | Other Non-Mfg | Fans | Early | end use | 9,031 | 13% | 0.14 | 10 | \$185 | 32% | 1.79 |
| FE-WPP | Properly Sized Fans | Other Non-Mfg | Fans | New | end use | 9,031 | 13% | 0.14 | 10 | \$185 | 32% | 1.79 |
| FE-WPP | Properly Sized Fans | Other Non-Mfg | Fans | ROB | end use | 9,031 | 13% | 0.14 | 10 | \$185 | 32% | 1.79 |
| FE-WPP | Synchronous Belts | Other Non-Mfg | Fans | Early | end use | 9,031 | 1.2% | 0.01 | 10 | \$13 | 32% | 2.05 |
| FE-WPP | Synchronous Belts | Other Non-Mfg | Fans | New | end use | 9,031 | 1.2% | 0.01 | 10 | \$13 | 32% | 2.05 |
| FE-WPP | Synchronous Belts | Other Non-Mfg | Fans | ROB | end use | 9,031 | 1.2% | 0.01 | 10 | \$13 | 32% | 2.05 |
| FE-WPP | <65k BTU/hr 14 SEER Air Conditioner | Other Non-Mfg | HVAC | Early | unit (ton) | 58,938 | 9.2% | 1.40 | 15 | \$10,741 | 28% | 0.31 |
| FE-WPP | <65k BTU/hr 14 SEER Air Conditioner | Other Non-Mfg | HVAC | New | unit (ton) | 58,938 | 4.1% | 0.63 | 15 | \$2,602 | 28% | 0.56 |
| FE-WPP | <65k BTU/hr 14 SEER Air Conditioner | Other Non-Mfg | HVAC | ROB | unit (ton) | 58,938 | 4.1% | 0.63 | 15 | \$2,602 | 28% | 0.56 |
| FE-WPP | <65k BTU/hr 15 SEER Air Conditioner | Other Non-Mfg | HVAC | Early | unit (ton) | 58,938 | 12% | 1.90 | 15 | \$12,663 | 28% | 0.36 |
| FE-WPP | <65k BTU/hr 15 SEER Air Conditioner | Other Non-Mfg | HVAC | New | unit (ton) | 58,938 | 7.7% | 1.18 | 15 | \$5,481 | 28% | 0.50 |
| FE-WPP | <65k BTU/hr 15 SEER Air Conditioner | Other Non-Mfg | HVAC | ROB | unit (ton) | 58,938 | 7.7% | 1.18 | 15 | \$5,481 | 28% | 0.50 |
| FE-WPP | <65k BTU/hr 16 SEER Air Conditioner | Other Non-Mfg | HVAC | Early | unit (ton) | 58,938 | 15% | 2.33 | 15 | \$14,584 | 29% | 0.38 |
| FE-WPP | <65k BTU/hr 16 SEER Air Conditioner | Other Non-Mfg | HVAC | New | unit (ton) | 58,938 | 11% | 1.65 | 15 | \$8,360 | 29% | 0.47 |
| FE-WPP | <65k BTU/hr 16 SEER Air Conditioner | Other Non-Mfg | HVAC | ROB | unit (ton) | 58,938 | 11% | 1.65 | 15 | \$8,360 | 29% | 0.47 |
| FE-WPP | >760k min 10.2 EER Air Conditioner | Other Non-Mfg | HVAC | Early | unit (ton) | 58,938 | 2.1% | 0.32 | 15 | \$18,705 | 35% | 0.04 |
| FE-WPP | >760k min 10.2 EER Air Conditioner | Other Non-Mfg | HVAC | New | unit (ton) | 58,938 | 2.8% | 0.43 | 15 | \$1,691 | 35% | 0.59 |
| FE-WPP | >760k min 10.2 EER Air Conditioner | Other Non-Mfg | HVAC | ROB | unit (ton) | 58,938 | 2.8% | 0.43 | 15 | \$1,691 | 35% | 0.59 |
| FE-WPP | 135-240k min 12 EER Air Conditioner | Other Non-Mfg | HVAC | Early | unit (ton) | 58,938 | 10% | 1.60 | 15 | \$20,255 | 35% | 0.19 |
| FE-WPP | 135-240k min 12 EER Air Conditioner | Other Non-Mfg | HVAC | New | unit (ton) | 58,938 | 5.8% | 0.88 | 15 | \$2,392 | 35% | 0.83 |
| FE-WPP | 135-240k min 12 EER Air Conditioner | Other Non-Mfg | HVAC | ROB | unit (ton) | 58,938 | 5.8% | 0.88 | 15 | \$2,392 | 35% | 0.83 |
| FE-WPP | 240k-760k min 11 EER Air Conditioner | Other Non-Mfg | HVAC | Early | unit (ton) | 58,938 | 5.2% | 0.80 | 15 | \$18,717 | 35% | 0.10 |
| FE-WPP | 240k-760k min 11 EER Air Conditioner | Other Non-Mfg | HVAC | New | unit (ton) | 58,938 | 5.3% | 0.82 | 15 | \$2,005 | 35% | 0.91 |
| FE-WPP | 240k-760k min 11 EER Air Conditioner | Other Non-Mfg | HVAC | ROB | unit (ton) | 58,938 | 5.3% | 0.82 | 15 | \$2,005 | 35% | 0.91 |
| FE-WPP | 65k-135k BTU/hr 12 EER Air Conditioner | Other Non-Mfg | HVAC | Early | unit (ton) | 58,938 | 9.7% | 1.48 | 15 | \$20,739 | 35% | 0.17 |
| FE-WPP | 65k-135k BTU/hr 12 EER Air Conditioner | Other Non-Mfg | HVAC | New | unit (ton) | 58,938 | 3.8% | 0.59 | 15 | \$2,959 | 35% | 0.47 |
| FE-WPP | 65k-135k BTU/hr 12 EER Air Conditioner | Other Non-Mfg | HVAC | ROB | unit (ton) | 58,938 | 3.8% | 0.59 | 15 | \$2,959 | 35% | 0.47 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Other Non-Mfg | HVAC | Existing | building | 58,938 | 5.9% | 0.88 | 15 | \$178,573 | 71% | 0.01 |
| FE-WPP | Ceiling Insualtions (Going upto R 20) | Other Non-Mfg | HVAC | New | building | 58,938 | 3.7% | 0.55 | 15 | \$169,739 | 94% | 0.01 |
| FE-WPP | Chiller Tuneup/Diagnostics | Other Non-Mfg | HVAC | Existing | building | 58,938 | 8.0% | 1.73 | 10 | \$150,496 | 59% | 0.02 |
| FE-WPP | Chiller Tuneup/Diagnostics | Other Non-Mfg | HVAC | New | building | 58,938 | 8.0% | 1.73 | 10 | \$150,496 | 59% | 0.02 |
| FE-WPP | Cooling Tower Optimization | Other Non-Mfg | HVAC | Existing | building | 58,938 | 20% | 4.22 | 10 | \$361 | 69% | 5.07 |
| FE-WPP | Duct Insulation, Add R8 | Other Non-Mfg | HVAC | Existing | building | 58,938 | 1.5% | 0.19 | 15 | \$468 | 18% | 1.05 |
| FE-WPP | Duct Insulation, Add R8 | Other Non-Mfg | HVAC | New | building | 58,938 | 1.5% | 0.19 | 15 | \$468 | 9% | 1.05 |
| FE-WPP | Ductless Heat Pump | Other Non-Mfg | HVAC | Early | heat pump | 58,938 | 0.8% | 0.11 | 15 | \$4,660 | 83% | 0.06 |
| FE-WPP | Ductless Heat Pump | Other Non-Mfg | HVAC | New | heat pump | 58,938 | 0.4% | 0.06 | 15 | \$1,353 | 83% | 0.12 |
| FE-WPP | Ductless Heat Pump | Other Non-Mfg | HVAC | ROB | heat pump | 58,938 | 0.4% | 0.06 | 15 | \$1,353 | 83% | 0.12 |
| FE-WPP | DX Coil Cleaning | Other Non-Mfg | HVAC | Existing | building | 58,938 | 13% | 2.70 | 1 | \$565 | 73% | 0.45 |
| FE-WPP | DX Coil Cleaning | Other Non-Mfg | HVAC | New | building | 58,938 | 13% | 2.70 | 1 | \$565 | 73% | 0.45 |
| FE-WPP | Efficient Unit Heating System | Other Non-Mfg | HVAC | Early | heater | 58,938 | 6.9% | 0.03 | 15 | \$3,182 | 83% | 0.59 |
| FE-WPP | Efficient Unit Heating System | Other Non-Mfg | HVAC | New | heater | 58,938 | 4.0% | 0.02 | 15 | \$2,170 | 83% | 0.50 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---|---------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Efficient Unit Heating System | Other Non-Mfg | HVAC | ROB | heater | 58,938 | 4.0% | 0.02 | 15 | \$2,170 | 83% | 0.50 |
| FE-WPP | Ground Source Heat Pump (Closed Loop) | Other Non-Mfg | HVAC | Early | heat pump | 58,938 | 1.3% | 0.17 | 15 | \$9,675 | 19% | 0.05 |
| FE-WPP | Ground Source Heat Pump (Closed Loop) | Other Non-Mfg | HVAC | New | heat pump | 58,938 | 1.0% | 0.13 | 15 | \$3,820 | 19% | 0.10 |
| FE-WPP | Ground Source Heat Pump (Closed Loop) | Other Non-Mfg | HVAC | ROB | heat pump | 58,938 | 1.0% | 0.13 | 15 | \$3,820 | 19% | 0.10 |
| FE-WPP | Ground Source Heat Pump (Open Loop) | Other Non-Mfg | HVAC | Early | heat pump | 58,938 | 1.3% | 0.17 | 15 | \$6,197 | 19% | 0.08 |
| FE-WPP | Ground Source Heat Pump (Open Loop) | Other Non-Mfg | HVAC | New | heat pump | 58,938 | 1.0% | 0.13 | 15 | \$131 | 19% | 2.16 |
| FE-WPP | Ground Source Heat Pump (Open Loop) | Other Non-Mfg | HVAC | ROB | heat pump | 58,938 | 1.0% | 0.13 | 15 | \$131 | 19% | 2.16 |
| FE-WPP | HE Air Cooled Chiller, 100 Tons | Other Non-Mfg | HVAC | Early | unit (ton) | 58,938 | 1.5% | 0.19 | 15 | \$68,561 | 89% | 0.01 |
| FE-WPP | HE Air Cooled Chiller, 100 Tons | Other Non-Mfg | HVAC | New | unit (ton) | 58,938 | 0.4% | 0.05 | 15 | \$9,988 | 89% | 0.02 |
| FE-WPP | HE Air Cooled Chiller, 100 Tons | Other Non-Mfg | HVAC | ROB | unit (ton) | 58,938 | 0.4% | 0.05 | 15 | \$9,988 | 89% | 0.02 |
| FE-WPP | HE Air Cooled Chiller, 150 Tons | Other Non-Mfg | HVAC | Early | unit (ton) | 58,938 | 1.4% | 0.19 | 15 | \$59,221 | 89% | 0.01 |
| FE-WPP | HE Air Cooled Chiller, 150 Tons | Other Non-Mfg | HVAC | New | unit (ton) | 58,938 | 0.3% | 0.04 | 15 | \$4,905 | 89% | 0.02 |
| FE-WPP | HE Air Cooled Chiller, 150 Tons | Other Non-Mfg | HVAC | ROB | unit (ton) | 58,938 | 0.3% | 0.04 | 15 | \$4,905 | 89% | 0.02 |
| FE-WPP | HE Air Source Heat Pump (12 EER, 3.6 COP) | Other Non-Mfg | HVAC | Early | heat pump | 58,938 | 1.4% | 0.18 | 12 | \$2,526 | 81% | 0.16 |
| FE-WPP | HE Air Source Heat Pump (12 EER, 3.6 COP) | Other Non-Mfg | HVAC | Early | heat pump | 58,938 | 1.1% | 0.15 | 12 | \$1,845 | 81% | 0.18 |
| FE-WPP | HE Air Source Heat Pump (12 EER, 3.6 COP) | Other Non-Mfg | HVAC | New | heat pump | 58,938 | 1.0% | 0.13 | 12 | \$1,128 | 81% | 0.26 |
| FE-WPP | HE Air Source Heat Pump (12 EER, 3.6 COP) | Other Non-Mfg | HVAC | New | heat pump | 58,938 | 0.8% | 0.10 | 12 | \$394 | 81% | 0.54 |
| FE-WPP | HE Air Source Heat Pump (12 EER, 3.6 COP) | Other Non-Mfg | HVAC | ROB | heat pump | 58,938 | 1.0% | 0.13 | 12 | \$1,128 | 81% | 0.26 |
| FE-WPP | HE Air Source Heat Pump (12 EER, 3.6 COP) | Other Non-Mfg | HVAC | ROB | heat pump | 58,938 | 0.8% | 0.10 | 12 | \$394 | 81% | 0.54 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 175 Tons | Other Non-Mfg | HVAC | Early | unit (ton) | 58,938 | 1.6% | 0.21 | 15 | \$5,440 | 89% | 0.11 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 175 Tons | Other Non-Mfg | HVAC | New | unit (ton) | 58,938 | 0.9% | 0.12 | 15 | \$1,809 | 89% | 0.18 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 175 Tons | Other Non-Mfg | HVAC | ROB | unit (ton) | 58,938 | 0.9% | 0.12 | 15 | \$1,809 | 89% | 0.18 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 300 Tons | Other Non-Mfg | HVAC | Early | unit (ton) | 58,938 | 1.4% | 0.19 | 15 | \$5,313 | 89% | 0.10 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 300 Tons | Other Non-Mfg | HVAC | New | unit (ton) | 58,938 | 1.0% | 0.13 | 15 | \$1,038 | 89% | 0.34 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 300 Tons | Other Non-Mfg | HVAC | ROB | unit (ton) | 58,938 | 1.4% | 0.19 | 15 | \$953 | 89% | 0.51 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 500 Tons | Other Non-Mfg | HVAC | Early | unit (ton) | 58,938 | 1.4% | 0.18 | 15 | \$6,288 | 89% | 0.08 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 500 Tons | Other Non-Mfg | HVAC | New | unit (ton) | 58,938 | 0.9% | 0.12 | 15 | \$2,647 | 89% | 0.12 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 500 Tons | Other Non-Mfg | HVAC | ROB | unit (ton) | 58,938 | 1.4% | 0.18 | 15 | \$2,396 | 89% | 0.21 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 600 Tons | Other Non-Mfg | HVAC | Early | unit (ton) | 58,938 | 1.4% | 0.18 | 15 | \$6,057 | 89% | 0.08 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 600 Tons | Other Non-Mfg | HVAC | New | unit (ton) | 58,938 | 0.9% | 0.12 | 15 | \$2,301 | 89% | 0.14 |
| FE-WPP | HE Water Cooled Centrifugal Chiller, 600 Tons | Other Non-Mfg | HVAC | ROB | unit (ton) | 58,938 | 1.4% | 0.18 | 15 | \$2,083 | 89% | 0.24 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 100 Tons | Other Non-Mfg | HVAC | Early | unit (ton) | 58,938 | 1.8% | 0.24 | 15 | \$6,527 | 89% | 0.10 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 100 Tons | Other Non-Mfg | HVAC | New | unit (ton) | 58,938 | 0.5% | 0.07 | 15 | \$4,041 | 89% | 0.05 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 100 Tons | Other Non-Mfg | HVAC | ROB | unit (ton) | 58,938 | 1.8% | 0.24 | 15 | \$3,138 | 89% | 0.21 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 175 Tons | Other Non-Mfg | HVAC | Early | unit (ton) | 58,938 | 2.1% | 0.28 | 15 | \$6,003 | 89% | 0.13 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 175 Tons | Other Non-Mfg | HVAC | New | unit (ton) | 58,938 | 0.8% | 0.10 | 15 | \$2,409 | 89% | 0.12 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 175 Tons | Other Non-Mfg | HVAC | ROB | unit (ton) | 58,938 | 0.8% | 0.10 | 15 | \$2,409 | 89% | 0.12 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 300 Tons | Other Non-Mfg | HVAC | Early | unit (ton) | 58,938 | 2.4% | 0.32 | 15 | \$5,088 | 89% | 0.17 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 300 Tons | Other Non-Mfg | HVAC | New | unit (ton) | 58,938 | 0.9% | 0.12 | 15 | \$1,280 | 89% | 0.25 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 300 Tons | Other Non-Mfg | HVAC | ROB | unit (ton) | 58,938 | 2.4% | 0.32 | 15 | \$913 | 89% | 0.87 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 50 Tons | Other Non-Mfg | HVAC | Early | unit (ton) | 58,938 | 1.8% | 0.24 | 15 | \$5,037 | 89% | 0.13 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 50 Tons | Other Non-Mfg | HVAC | New | unit (ton) | 58,938 | 0.7% | 0.09 | 15 | \$1,410 | 89% | 0.17 |
| FE-WPP | HE Water Cooled Reciprocating Chiller, 50 Tons | Other Non-Mfg | HVAC | ROB | unit (ton) | 58,938 | 1.8% | 0.24 | 15 | \$1,117 | 89% | 0.56 |
| FE-WPP | Heat Reclaimer | Other Non-Mfg | HVAC | Existing | end use | 30,838 | 42% | 1.86 | 15 | \$1,764 | 15% | 2.80 |
| FE-WPP | Heat Reclaimer | Other Non-Mfg | HVAC | New | end use | 30,838 | 42% | 1.86 | 15 | \$1,764 | 15% | 2.80 |
| FE-WPP | Heat Recovery Ventilators | Other Non-Mfg | HVAC | Existing | end use | 30,838 | 4.1% | 0.18 | 10 | \$452 | 93% | 0.98 |
| FE-WPP | Heat Recovery Ventilators | Other Non-Mfg | HVAC | New | end use | 30,838 | 4.1% | 0.18 | 10 | \$452 | 93% | 0.98 |
| FE-WPP | HVAC Diagnostic/Air Conditioner Tune Up | Other Non-Mfg | HVAC | Existing | building | 58,938 | 2.9% | 0.35 | 5 | \$625 | 55% | 0.58 |
| FE-WPP | HVAC Diagnostic/Air Conditioner Tune Up | Other Non-Mfg | HVAC | New | building | 58,938 | 0.6% | 0.14 | 5 | \$375 | 51% | 0.28 |
| FE-WPP | Improved Controls - HVAC | Other Non-Mfg | HVAC | Existing | end use | 30,838 | 21% | 0.92 | 10 | \$324 | 76% | 3.46 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---------------------------------------|---------------|----------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Improved Controls - HVAC | Other Non-Mfg | HVAC | New | end use | 30,838 | 21% | 0.92 | 10 | \$324 | 76% | 3.46 |
| FE-WPP | Infrared Film for Greenhouses | Other Non-Mfg | HVAC | Existing | end use | 30,838 | 11% | 0.49 | 4 | \$716 | 5% | 0.71 |
| FE-WPP | Infrared Film for Greenhouses | Other Non-Mfg | HVAC | New | end use | 30,838 | 11% | 0.49 | 4 | \$716 | 5% | 0.70 |
| FE-WPP | Outside Air Economizer | Other Non-Mfg | HVAC | Existing | building | 58,938 | 1.1% | 0.17 | 10 | \$216,550 | 82% | 0.00 |
| FE-WPP | Outside Air Economizer | Other Non-Mfg | HVAC | New | building | 58,938 | 1.1% | 0.17 | 10 | \$216,550 | 82% | 0.00 |
| FE-WPP | Programmable Ventilation Controller | Other Non-Mfg | HVAC | Existing | end use | 30,838 | 0.1% | 0.00 | 10 | \$3.5 | 80% | 2.29 |
| FE-WPP | Programmable Ventilation Controller | Other Non-Mfg | HVAC | New | end use | 30,838 | 0.1% | 0.00 | 10 | \$3.5 | 80% | 2.28 |
| FE-WPP | Recommissioning | Other Non-Mfg | HVAC | Existing | end use | 30,838 | 5.0% | 0.22 | 10 | \$42 | 88% | 4.27 |
| FE-WPP | Recommissioning | Other Non-Mfg | HVAC | New | end use | 30,838 | 5.0% | 0.22 | 10 | \$42 | 88% | 4.27 |
| FE-WPP | Room AC (with louvered sides) | Other Non-Mfg | HVAC | Early | unit (ton) | 58,938 | 7.7% | 1.02 | 9 | \$4,622 | 78% | 0.39 |
| FE-WPP | Room AC (with louvered sides) | Other Non-Mfg | HVAC | New | unit (ton) | 58,938 | 2.6% | 0.34 | 9 | \$253 | 78% | 1.77 |
| FE-WPP | Room AC (with louvered sides) | Other Non-Mfg | HVAC | ROB | unit (ton) | 58,938 | 2.6% | 0.34 | 9 | \$253 | 78% | 1.77 |
| FE-WPP | Variable Refrigerant Flow Heat Pump | Other Non-Mfg | HVAC | New | measure | 58,938 | 0.1% | 0.02 | 13 | \$434 | 43% | 0.09 |
| FE-WPP | Variable Refrigerant Flow Heat Pump | Other Non-Mfg | HVAC | ROB | measure | 58,938 | 0.1% | 0.02 | 13 | \$434 | 43% | 0.09 |
| FE-WPP | VFD on Cooling Tower Fan | Other Non-Mfg | HVAC | Early | motor | 58,938 | 21% | 3.72 | 15 | \$2,722 | 15% | 2.32 |
| FE-WPP | VFD on Cooling Tower Fan | Other Non-Mfg | HVAC | New | motor | 58,938 | 22% | 3.72 | 15 | \$2,773 | 15% | 2.31 |
| FE-WPP | VFD on Cooling Tower Fan | Other Non-Mfg | HVAC | ROB | motor | 58,938 | 22% | 3.72 | 15 | \$2,773 | 15% | 2.31 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Other Non-Mfg | HVAC | Existing | building | 58,938 | 19% | 2.82 | 15 | \$41,927 | 26% | 0.17 |
| FE-WPP | Wall Insualtions (Going upto R 21) | Other Non-Mfg | HVAC | New | building | 58,938 | 0.6% | 0.09 | 15 | \$32,160 | 94% | 0.01 |
| FE-WPP | Water Source Heat Pump (4 ton) | Other Non-Mfg | HVAC | Early | heat pump | 58,938 | 1.5% | 0.20 | 15 | \$10,019 | 28% | 0.06 |
| FE-WPP | Water Source Heat Pump (4 ton) | Other Non-Mfg | HVAC | New | heat pump | 58,938 | 1.1% | 0.15 | 15 | \$4,883 | 28% | 0.08 |
| FE-WPP | Water Source Heat Pump (4 ton) | Other Non-Mfg | HVAC | ROB | heat pump | 58,938 | 1.1% | 0.15 | 15 | \$4,883 | 28% | 0.08 |
| FE-WPP | Efficient Metal Halide (High Bay) | Other Non-Mfg | Lighting | Early | end use | 33,288 | 42% | 0.00 | 9 | \$5,202 | 53% | 0.73 |
| FE-WPP | Efficient Metal Halide (High Bay) | Other Non-Mfg | Lighting | New | end use | 33,288 | 41% | 0.00 | 13 | \$138,939 | 61% | 0.04 |
| FE-WPP | Efficient Metal Halide (High Bay) | Other Non-Mfg | Lighting | ROB | end use | 33,288 | 41% | 0.00 | 13 | \$106,185 | 61% | 0.06 |
| FE-WPP | Induction (High Bay) | Other Non-Mfg | Lighting | Early | end use | 33,288 | 94% | 0.00 | 13 | \$15,477 | 95% | 0.77 |
| FE-WPP | Induction (High Bay) | Other Non-Mfg | Lighting | New | end use | 33,288 | 94% | 0.00 | 13 | \$14,491 | 95% | 0.81 |
| FE-WPP | Induction (High Bay) | Other Non-Mfg | Lighting | ROB | end use | 33,288 | 94% | 0.00 | 13 | \$11,013 | 95% | 1.02 |
| FE-WPP | LED (High Bay) | Other Non-Mfg | Lighting | Early | end use | 33,288 | 69% | 0.00 | 14 | \$18,219 | 95% | 0.53 |
| FE-WPP | LED (High Bay) | Other Non-Mfg | Lighting | New | end use | 33,288 | 55% | 0.00 | 14 | \$20,223 | 95% | 0.39 |
| FE-WPP | LED (High Bay) | Other Non-Mfg | Lighting | ROB | end use | 33,288 | 59% | 0.00 | 14 | \$13,324 | 95% | 0.61 |
| FE-WPP | Lighting Controls | Other Non-Mfg | Lighting | Existing | end use | 33,288 | 20% | 0.00 | 6 | \$124,794 | 16% | 0.01 |
| FE-WPP | Lighting Controls | Other Non-Mfg | Lighting | New | end use | 33,288 | 12% | 0.00 | 10 | \$166,017 | 11% | 0.01 |
| FE-WPP | Linear Fluorescent (High Bay) | Other Non-Mfg | Lighting | Early | end use | 33,288 | 17% | 0.00 | 14 | \$3,809 | 98% | 0.61 |
| FE-WPP | Linear Fluorescent (High Bay) | Other Non-Mfg | Lighting | New | end use | 33,288 | 13% | 0.00 | 14 | \$1,208 | 91% | 1.29 |
| FE-WPP | Linear Fluorescent (High Bay) | Other Non-Mfg | Lighting | ROB | end use | 33,288 | 13% | 0.00 | 14 | \$773 | 91% | 1.87 |
| FE-WPP | Metal Halide (High Bay) | Other Non-Mfg | Lighting | Early | end use | 33,288 | 62% | 0.00 | 13 | \$22,884 | 38% | 0.37 |
| FE-WPP | Metal Halide (High Bay) | Other Non-Mfg | Lighting | New | end use | 33,288 | 73% | 0.00 | 13 | \$5,471 | 38% | 1.46 |
| FE-WPP | Metal Halide (High Bay) | Other Non-Mfg | Lighting | ROB | end use | 33,288 | 73% | 0.00 | 13 | \$4,158 | 38% | 1.78 |
| FE-WPP | Screw Base CFL | Other Non-Mfg | Lighting | Early | end use | 33,288 | 80% | 0.00 | 7 | \$9,044 | 17% | 0.64 |
| FE-WPP | Screw Base CFL | Other Non-Mfg | Lighting | New | end use | 33,288 | 73% | 0.00 | 9 | \$7,391 | 18% | 0.86 |
| FE-WPP | Screw Base CFL | Other Non-Mfg | Lighting | ROB | end use | 33,288 | 73% | 0.00 | 9 | \$6,186 | 17% | 0.99 |
| FE-WPP | Screw Base LED | Other Non-Mfg | Lighting | Early | end use | 33,288 | 76% | 0.00 | 9 | \$5,550 | 21% | 1.15 |
| FE-WPP | Screw Base LED | Other Non-Mfg | Lighting | New | end use | 33,288 | 77% | 0.00 | 9 | \$3,092 | 20% | 1.75 |
| FE-WPP | Screw Base LED | Other Non-Mfg | Lighting | ROB | end use | 33,288 | 77% | 0.00 | 9 | \$2,454 | 21% | 2.01 |
| FE-WPP | T8 High Performance Linear Florescent | Other Non-Mfg | Lighting | Early | end use | 33,288 | 36% | 0.00 | 14 | \$3,185 | 71% | 1.37 |
| FE-WPP | T8 High Performance Linear Florescent | Other Non-Mfg | Lighting | New | end use | 33,288 | 26% | 0.00 | 14 | \$1,140 | 76% | 2.31 |
| FE-WPP | T8 High Performance Linear Florescent | Other Non-Mfg | Lighting | ROB | end use | 33,288 | 26% | 0.00 | 14 | \$866 | 76% | 2.73 |
| FE-WPP | Automatic Milker Takeoff | Other Non-Mfg | Motors | Early | end use | 2,851 | 3.0% | 0.01 | 15 | \$52 | 11% | 0.83 |
| FE-WPP | Automatic Milker Takeoff | Other Non-Mfg | Motors | New | end use | 2,851 | 3.0% | 0.01 | 15 | \$52 | 11% | 0.83 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|--|---------------|---------|----------|---------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Automatic Milker Takeoff | Other Non-Mfg | Motors | ROB | end use | 2,851 | 3.0% | 0.01 | 15 | \$52 | 11% | 0.83 |
| FE-WPP | Enhanced (Ultra-PE) Motor 1-15 HP | Other Non-Mfg | Motors | Early | end use | 2,851 | 0.9% | 0.00 | 15 | \$44 | 68% | 0.32 |
| FE-WPP | Enhanced (Ultra-PE) Motor 1-15 HP | Other Non-Mfg | Motors | New | end use | 2,851 | 0.9% | 0.00 | 15 | \$44 | 68% | 0.32 |
| FE-WPP | Enhanced (Ultra-PE) Motor 1-15 HP | Other Non-Mfg | Motors | ROB | end use | 2,851 | 0.9% | 0.00 | 15 | \$44 | 68% | 0.32 |
| FE-WPP | Enhanced (Ultra-PE) Motor 125-200 HP | Other Non-Mfg | Motors | Early | end use | 2,851 | 0.8% | 0.00 | 15 | \$26 | 61% | 0.43 |
| FE-WPP | Enhanced (Ultra-PE) Motor 125-200 HP | Other Non-Mfg | Motors | New | end use | 2,851 | 0.8% | 0.00 | 15 | \$26 | 61% | 0.43 |
| FE-WPP | Enhanced (Ultra-PE) Motor 125-200 HP | Other Non-Mfg | Motors | ROB | end use | 2,851 | 0.7% | 0.00 | 15 | \$26 | 61% | 0.43 |
| FE-WPP | Enhanced (Ultra-PE) Motor 20-40 HP | Other Non-Mfg | Motors | Early | end use | 2,851 | 0.5% | 0.00 | 15 | \$10 | 68% | 0.66 |
| FE-WPP | Enhanced (Ultra-PE) Motor 20-40 HP | Other Non-Mfg | Motors | New | end use | 2,851 | 0.5% | 0.00 | 15 | \$10 | 68% | 0.67 |
| FE-WPP | Enhanced (Ultra-PE) Motor 20-40 HP | Other Non-Mfg | Motors | ROB | end use | 2,851 | 0.5% | 0.00 | 15 | \$10 | 68% | 0.65 |
| FE-WPP | Enhanced (Ultra-PE) Motor 250-500 HP | Other Non-Mfg | Motors | Early | end use | 2,851 | 0.4% | 0.00 | 15 | \$3.3 | 61% | 1.54 |
| FE-WPP | Enhanced (Ultra-PE) Motor 250-500 HP | Other Non-Mfg | Motors | New | end use | 2,851 | 0.4% | 0.00 | 15 | \$3.3 | 61% | 1.55 |
| FE-WPP | Enhanced (Ultra-PE) Motor 250-500 HP | Other Non-Mfg | Motors | ROB | end use | 2,851 | 0.4% | 0.00 | 15 | \$3.3 | 61% | 1.55 |
| FE-WPP | Enhanced (Ultra-PE) Motor 50-100 HP | Other Non-Mfg | Motors | Early | end use | 2,851 | 0.9% | 0.00 | 15 | \$5.0 | 39% | 2.16 |
| FE-WPP | Enhanced (Ultra-PE) Motor 50-100 HP | Other Non-Mfg | Motors | New | end use | 2,851 | 0.9% | 0.00 | 15 | \$5.0 | 39% | 2.16 |
| FE-WPP | Enhanced (Ultra-PE) Motor 50-100 HP | Other Non-Mfg | Motors | ROB | end use | 2,851 | 0.9% | 0.00 | 15 | \$5.0 | 39% | 2.15 |
| FE-WPP | Facility Energy Management | Other Non-Mfg | Motors | Existing | end use | 2,851 | 1.9% | 0.01 | 2 | \$1.1 | 64% | 1.11 |
| FE-WPP | Facility Energy Management | Other Non-Mfg | Motors | New | end use | 2,851 | 1.9% | 0.01 | 2 | \$1.1 | 64% | 1.12 |
| FE-WPP | HE Motors | Other Non-Mfg | Motors | Early | end use | 2,851 | 2.0% | 0.01 | 15 | \$17 | 32% | 1.55 |
| FE-WPP | HE Motors | Other Non-Mfg | Motors | New | end use | 2,851 | 2.0% | 0.01 | 15 | \$17 | 32% | 1.55 |
| FE-WPP | HE Motors | Other Non-Mfg | Motors | ROB | end use | 2,851 | 2.0% | 0.01 | 15 | \$17 | 32% | 1.55 |
| FE-WPP | High-Efficiency Ventilation System | Other Non-Mfg | Motors | Early | end use | 2,851 | 5.7% | 0.02 | 10 | \$178 | 61% | 0.35 |
| FE-WPP | High-Efficiency Ventilation System | Other Non-Mfg | Motors | New | end use | 2,851 | 5.7% | 0.02 | 10 | \$178 | 61% | 0.35 |
| FE-WPP | High-Efficiency Ventilation System | Other Non-Mfg | Motors | ROB | end use | 2,851 | 5.7% | 0.02 | 10 | \$178 | 61% | 0.34 |
| FE-WPP | Improved Controls - Motors | Other Non-Mfg | Motors | Existing | end use | 2,851 | 4.0% | 0.02 | 10 | \$12 | 61% | 2.24 |
| FE-WPP | Improved Controls - Motors | Other Non-Mfg | Motors | New | end use | 2,851 | 4.0% | 0.02 | 10 | \$12 | 61% | 2.24 |
| FE-WPP | Motor Management Plan | Other Non-Mfg | Motors | Existing | end use | 2,851 | 2.9% | 0.01 | 10 | \$5.8 | 61% | 2.87 |
| FE-WPP | Motor Management Plan | Other Non-Mfg | Motors | New | end use | 2,851 | 2.9% | 0.01 | 10 | \$5.8 | 61% | 2.87 |
| FE-WPP | Motors Other | Other Non-Mfg | Motors | Existing | end use | 2,851 | 1.1% | 0.00 | 15 | \$0.6 | 69% | 6.32 |
| FE-WPP | Motors Other | Other Non-Mfg | Motors | New | end use | 2,851 | 1.1% | 0.00 | 15 | \$0.6 | 69% | 6.32 |
| FE-WPP | Motors: Rewind 101-200 HP | Other Non-Mfg | Motors | Existing | end use | 2,851 | 0.6% | 0.00 | 10 | \$3.6 | 22% | 1.38 |
| FE-WPP | Motors: Rewind 101-200 HP | Other Non-Mfg | Motors | New | end use | 2,851 | 0.6% | 0.00 | 10 | \$3.6 | 22% | 1.36 |
| FE-WPP | Motors: Rewind 201-500 HP | Other Non-Mfg | Motors | Existing | end use | 2,851 | 0.6% | 0.00 | 8 | \$2.3 | 22% | 1.60 |
| FE-WPP | Motors: Rewind 201-500 HP | Other Non-Mfg | Motors | New | end use | 2,851 | 0.6% | 0.00 | 8 | \$2.3 | 22% | 1.60 |
| FE-WPP | Motors: Rewind 20-50 HP | Other Non-Mfg | Motors | Existing | end use | 2,851 | 1.0% | 0.00 | 11 | \$11 | 35% | 1.03 |
| FE-WPP | Motors: Rewind 20-50 HP | Other Non-Mfg | Motors | New | end use | 2,851 | 1.0% | 0.00 | 11 | \$11 | 35% | 1.03 |
| FE-WPP | Motors: Rewind 500+ HP | Other Non-Mfg | Motors | Existing | end use | 2,851 | 0.6% | 0.00 | 8 | \$1.6 | 10% | 2.02 |
| FE-WPP | Motors: Rewind 500+ HP | Other Non-Mfg | Motors | New | end use | 2,851 | 0.6% | 0.00 | 8 | \$1.6 | 10% | 1.99 |
| FE-WPP | Motors: Rewind 51-100 HP | Other Non-Mfg | Motors | Existing | end use | 2,851 | 0.6% | 0.00 | 9 | \$5.2 | 35% | 1.00 |
| FE-WPP | Motors: Rewind 51-100 HP | Other Non-Mfg | Motors | New | end use | 2,851 | 0.6% | 0.00 | 9 | \$5.2 | 35% | 1.01 |
| FE-WPP | SIS | Other Non-Mfg | Motors | Existing | end use | 2,851 | 7.5% | 0.03 | 7 | \$180 | 11% | 0.34 |
| FE-WPP | SIS | Other Non-Mfg | Motors | New | end use | 2,851 | 7.5% | 0.03 | 7 | \$180 | 11% | 0.34 |
| FE-WPP | Switch from Belt drive to Direct Drive | Other Non-Mfg | Motors | Early | end use | 2,851 | 7.5% | 0.03 | 12 | \$46 | 25% | 1.63 |
| FE-WPP | Switch from Belt drive to Direct Drive | Other Non-Mfg | Motors | New | end use | 2,851 | 7.5% | 0.03 | 12 | \$46 | 25% | 1.63 |
| FE-WPP | Switch from Belt drive to Direct Drive | Other Non-Mfg | Motors | ROB | end use | 2,851 | 7.5% | 0.03 | 12 | \$46 | 25% | 1.63 |
| FE-WPP | Synchronous Belts | Other Non-Mfg | Motors | Early | end use | 2,851 | 1.2% | 0.00 | 10 | \$4.2 | 25% | 2.05 |
| FE-WPP | Synchronous Belts | Other Non-Mfg | Motors | New | end use | 2,851 | 1.2% | 0.00 | 10 | \$4.2 | 25% | 2.05 |
| FE-WPP | Synchronous Belts | Other Non-Mfg | Motors | ROB | end use | 2,851 | 1.2% | 0.00 | 10 | \$4.2 | 25% | 2.05 |
| FE-WPP | Variable Speed Drives for Dairy Vacuum Pumps | Other Non-Mfg | Motors | Early | end use | 2,851 | 37% | 0.15 | 15 | \$143 | 7% | 2.71 |
| FE-WPP | Variable Speed Drives for Dairy Vacuum Pumps | Other Non-Mfg | Motors | New | end use | 2,851 | 37% | 0.15 | 15 | \$143 | 7% | 2.71 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|--|---------------|------------------------|----------|---------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Variable Speed Drives for Dairy Vacuum Pumps | Other Non-Mfg | Motors | ROB | end use | 2,851 | 37% | 0.15 | 15 | \$143 | 7% | 2.71 |
| FE-WPP | VFDs on Small Milking Machines | Other Non-Mfg | Motors | Early | end use | 2,851 | 3.2% | 0.01 | 15 | \$61 | 7% | 0.76 |
| FE-WPP | VFDs on Small Milking Machines | Other Non-Mfg | Motors | New | end use | 2,851 | 3.2% | 0.01 | 15 | \$61 | 7% | 0.76 |
| FE-WPP | VFDs on Small Milking Machines | Other Non-Mfg | Motors | ROB | end use | 2,851 | 3.2% | 0.01 | 15 | \$61 | 7% | 0.76 |
| FE-WPP | Wood: Replace Pneumatic Conveyor | Other Non-Mfg | Motors | Early | end use | 2,851 | 29% | 0.12 | 10 | \$12 | 11% | 4.77 |
| FE-WPP | Wood: Replace Pneumatic Conveyor | Other Non-Mfg | Motors | New | end use | 2,851 | 29% | 0.12 | 10 | \$12 | 11% | 4.77 |
| FE-WPP | Wood: Replace Pneumatic Conveyor | Other Non-Mfg | Motors | ROB | end use | 2,851 | 29% | 0.12 | 10 | \$12 | 11% | 4.77 |
| FE-WPP | Bldg Improvements | Other Non-Mfg | Other | Existing | end use | 5,479 | 16% | 0.11 | 15 | \$119 | 72% | 2.66 |
| FE-WPP | Bldg Improvements | Other Non-Mfg | Other | New | end use | 5,479 | 16% | 0.11 | 15 | \$119 | 72% | 2.66 |
| FE-WPP | Block Heater Timer | Other Non-Mfg | Other | Existing | end use | 5,479 | 2.5% | 0.02 | 10 | \$5.4 | 40% | 3.60 |
| FE-WPP | Block Heater Timer | Other Non-Mfg | Other | New | end use | 5,479 | 2.5% | 0.02 | 10 | \$5.4 | 40% | 3.60 |
| FE-WPP | Energy Project Management | Other Non-Mfg | Other | Existing | end use | 5,479 | 29% | 0.19 | 11 | \$196 | 63% | 2.18 |
| FE-WPP | Energy Project Management | Other Non-Mfg | Other | New | end use | 5,479 | 29% | 0.19 | 11 | \$196 | 63% | 2.18 |
| FE-WPP | Facility Energy Management | Other Non-Mfg | Other | Existing | end use | 5,479 | 1.9% | 0.01 | 2 | \$2.1 | 76% | 1.09 |
| FE-WPP | Facility Energy Management | Other Non-Mfg | Other | New | end use | 5,479 | 1.9% | 0.01 | 2 | \$2.1 | 76% | 1.09 |
| FE-WPP | Grain bin aeration control systems | Other Non-Mfg | Other | Existing | end use | 5,479 | 2.3% | 0.01 | 15 | \$16 | 24% | 2.68 |
| FE-WPP | Grain bin aeration control systems | Other Non-Mfg | Other | New | end use | 5,479 | 2.3% | 0.01 | 15 | \$16 | 24% | 2.68 |
| FE-WPP | Greenhouse Heat Curtain | Other Non-Mfg | Other | Existing | end use | 5,479 | 17% | 0.11 | 5 | \$42 | 5% | 1.95 |
| FE-WPP | Greenhouse Heat Curtain | Other Non-Mfg | Other | New | end use | 5,479 | 17% | 0.11 | 5 | \$42 | 5% | 1.95 |
| FE-WPP | HE Stock tank | Other Non-Mfg | Other | Early | end use | 5,479 | 3.8% | 0.02 | 10 | \$68 | 14% | 0.97 |
| FE-WPP | HE Stock tank | Other Non-Mfg | Other | New | end use | 5,479 | 3.8% | 0.02 | 10 | \$68 | 14% | 0.97 |
| FE-WPP | HE Stock tank | Other Non-Mfg | Other | ROB | end use | 5,479 | 3.8% | 0.02 | 10 | \$68 | 14% | 0.97 |
| FE-WPP | Integrated Plant Energy Management | Other Non-Mfg | Other | Existing | end use | 5,479 | 50% | 0.33 | 11 | \$540 | 48% | 1.57 |
| FE-WPP | Integrated Plant Energy Management | Other Non-Mfg | Other | New | end use | 5,479 | 50% | 0.33 | 11 | \$540 | 48% | 1.57 |
| FE-WPP | Livestock Waterers | Other Non-Mfg | Other | Early | end use | 5,479 | 11% | 0.07 | 10 | \$162 | 14% | 1.17 |
| FE-WPP | Livestock Waterers | Other Non-Mfg | Other | New | end use | 5,479 | 11% | 0.07 | 10 | \$162 | 14% | 1.17 |
| FE-WPP | Livestock Waterers | Other Non-Mfg | Other | ROB | end use | 5,479 | 11% | 0.07 | 10 | \$162 | 14% | 1.17 |
| FE-WPP | Plant Energy Management | Other Non-Mfg | Other | Existing | end use | 5,479 | 12% | 0.08 | 10 | \$14 | 55% | 4.32 |
| FE-WPP | Plant Energy Management | Other Non-Mfg | Other | New | end use | 5,479 | 12% | 0.08 | 10 | \$14 | 55% | 4.32 |
| FE-WPP | Transformers | Other Non-Mfg | Other | Early | end use | 5,479 | 1.6% | 0.01 | 15 | \$18 | 34% | 1.99 |
| FE-WPP | Transformers | Other Non-Mfg | Other | New | end use | 5,479 | 1.6% | 0.01 | 15 | \$18 | 34% | 2.00 |
| FE-WPP | Transformers | Other Non-Mfg | Other | ROB | end use | 5,479 | 1.6% | 0.01 | 15 | \$18 | 34% | 1.99 |
| FE-WPP | Air Compressor Demand Reduction | Other Non-Mfg | Process Air Compressor | Existing | end use | 236 | 26% | 0.01 | 10 | \$3.5 | 40% | 3.10 |
| FE-WPP | Air Compressor Demand Reduction | Other Non-Mfg | Process Air Compressor | New | end use | 236 | 26% | 0.01 | 10 | \$3.5 | 40% | 3.10 |
| FE-WPP | Air Compressor Equipment | Other Non-Mfg | Process Air Compressor | Early | end use | 236 | 39% | 0.01 | 10 | \$4.3 | 56% | 3.40 |
| FE-WPP | Air Compressor Equipment | Other Non-Mfg | Process Air Compressor | New | end use | 236 | 39% | 0.01 | 10 | \$4.3 | 56% | 3.40 |
| FE-WPP | Air Compressor Equipment | Other Non-Mfg | Process Air Compressor | ROB | end use | 236 | 39% | 0.01 | 10 | \$4.3 | 56% | 3.40 |
| FE-WPP | Air Compressor Optimization | Other Non-Mfg | Process Air Compressor | Existing | end use | 236 | 39% | 0.01 | 10 | \$10 | 42% | 2.20 |
| FE-WPP | Air Compressor Optimization | Other Non-Mfg | Process Air Compressor | New | end use | 236 | 39% | 0.01 | 10 | \$10 | 42% | 2.20 |
| FE-WPP | Facility Energy Management | Other Non-Mfg | Process Air Compressor | Existing | end use | 236 | 1.9% | 0.00 | 2 | \$0.1 | 50% | 1.10 |
| FE-WPP | Facility Energy Management | Other Non-Mfg | Process Air Compressor | New | end use | 236 | 1.9% | 0.00 | 2 | \$0.1 | 50% | 1.10 |
| FE-WPP | HE Compressor motors | Other Non-Mfg | Process Air Compressor | Early | end use | 236 | 1.1% | 0.00 | 15 | \$0.9 | 56% | 1.34 |
| FE-WPP | HE Compressor motors | Other Non-Mfg | Process Air Compressor | New | end use | 236 | 1.1% | 0.00 | 15 | \$0.9 | 56% | 1.34 |
| FE-WPP | HE Compressor motors | Other Non-Mfg | Process Air Compressor | ROB | end use | 236 | 1.1% | 0.00 | 15 | \$0.9 | 56% | 1.34 |
| FE-WPP | Improved Controls - Air Compressor | Other Non-Mfg | Process Air Compressor | Existing | end use | 236 | 41% | 0.01 | 10 | \$4.2 | 19% | 3.49 |
| FE-WPP | Improved Controls - Air Compressor | Other Non-Mfg | Process Air Compressor | New | end use | 236 | 41% | 0.01 | 10 | \$4.2 | 19% | 3.49 |
| FE-WPP | Low Pressure-drop Filters | Other Non-Mfg | Process Air Compressor | Existing | end use | 236 | 1.9% | 0.00 | 10 | \$2.7 | 46% | 0.58 |
| FE-WPP | Low Pressure-drop Filters | Other Non-Mfg | Process Air Compressor | New | end use | 236 | 1.9% | 0.00 | 10 | \$2.7 | 46% | 0.58 |
| FE-WPP | Outside Air Intake | Other Non-Mfg | Process Air Compressor | Existing | end use | 236 | 1.4% | 0.00 | 10 | \$1.6 | 37% | 0.76 |
| FE-WPP | Outside Air Intake | Other Non-Mfg | Process Air Compressor | New | end use | 236 | 1.4% | 0.00 | 10 | \$1.6 | 37% | 0.75 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|---------------------------------------|---------------|------------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Receiver Capacity Addition | Other Non-Mfg | Process Air Compressor | Existing | end use | 236 | 5.9% | 0.00 | 10 | \$4.4 | 28% | 1.04 |
| FE-WPP | Receiver Capacity Addition | Other Non-Mfg | Process Air Compressor | New | end use | 236 | 5.9% | 0.00 | 10 | \$4.4 | 28% | 1.04 |
| FE-WPP | Refrigerated Cycling Dryers | Other Non-Mfg | Process Air Compressor | Early | end use | 236 | 1.7% | 0.00 | 10 | \$0.5 | 16% | 1.93 |
| FE-WPP | Refrigerated Cycling Dryers | Other Non-Mfg | Process Air Compressor | New | end use | 236 | 1.7% | 0.00 | 10 | \$0.5 | 16% | 1.92 |
| FE-WPP | Refrigerated Cycling Dryers | Other Non-Mfg | Process Air Compressor | ROB | end use | 236 | 1.7% | 0.00 | 10 | \$0.5 | 16% | 1.93 |
| FE-WPP | VFD Controlled Compressor | Other Non-Mfg | Process Air Compressor | Early | end use | 236 | 24% | 0.01 | 10 | \$23 | 22% | 0.82 |
| FE-WPP | VFD Controlled Compressor | Other Non-Mfg | Process Air Compressor | New | end use | 236 | 24% | 0.01 | 10 | \$23 | 22% | 0.82 |
| FE-WPP | VFD Controlled Compressor | Other Non-Mfg | Process Air Compressor | ROB | end use | 236 | 24% | 0.01 | 10 | \$23 | 22% | 0.82 |
| FE-WPP | Zero Loss Condensate Drain | Other Non-Mfg | Process Air Compressor | Early | end use | 236 | 1.9% | 0.00 | 10 | \$1.4 | 28% | 1.05 |
| FE-WPP | Zero Loss Condensate Drain | Other Non-Mfg | Process Air Compressor | New | end use | 236 | 1.9% | 0.00 | 10 | \$1.4 | 28% | 1.05 |
| FE-WPP | Zero Loss Condensate Drain | Other Non-Mfg | Process Air Compressor | ROB | end use | 236 | 1.9% | 0.00 | 10 | \$1.4 | 28% | 1.05 |
| FE-WPP | Cooling Tower Optimization | Other Non-Mfg | Process Cooling | Existing | building | 5,992 | 20% | 0.43 | 10 | \$37 | 15% | 4.90 |
| FE-WPP | Equipment: Chillers | Other Non-Mfg | Process Cooling | Early | end use | 3,135 | 18% | 0.12 | 15 | \$147 | 39% | 1.77 |
| FE-WPP | Equipment: Chillers | Other Non-Mfg | Process Cooling | New | end use | 3,135 | 18% | 0.12 | 15 | \$147 | 39% | 1.77 |
| FE-WPP | Equipment: Chillers | Other Non-Mfg | Process Cooling | ROB | end use | 3,135 | 18% | 0.12 | 15 | \$147 | 39% | 1.77 |
| FE-WPP | Facility Energy Management | Other Non-Mfg | Process Cooling | Existing | end use | 3,135 | 1.9% | 0.01 | 2 | \$1.2 | 50% | 1.17 |
| FE-WPP | Facility Energy Management | Other Non-Mfg | Process Cooling | New | end use | 3,135 | 1.9% | 0.01 | 2 | \$1.2 | 50% | 1.17 |
| FE-WPP | Improved Controls - Process Cooling | Other Non-Mfg | Process Cooling | Existing | end use | 3,135 | 6.0% | 0.04 | 10 | \$166 | 47% | 0.45 |
| FE-WPP | Improved Controls - Process Cooling | Other Non-Mfg | Process Cooling | New | end use | 3,135 | 6.0% | 0.04 | 10 | \$166 | 47% | 0.45 |
| FE-WPP | Milk Precooler - Dairy Plate Cooler | Other Non-Mfg | Process Cooling | Early | end use | 3,135 | 3.2% | 0.02 | 15 | \$53 | 8% | 0.99 |
| FE-WPP | Milk Precooler - Dairy Plate Cooler | Other Non-Mfg | Process Cooling | New | end use | 3,135 | 3.2% | 0.02 | 15 | \$53 | 8% | 0.99 |
| FE-WPP | Milk Precooler - Dairy Plate Cooler | Other Non-Mfg | Process Cooling | ROB | end use | 3,135 | 3.2% | 0.02 | 15 | \$53 | 8% | 0.99 |
| FE-WPP | VFD on Cooling Tower Fan | Other Non-Mfg | Process Cooling | Early | motor | 5,992 | 21% | 0.38 | 15 | \$277 | 20% | 2.23 |
| FE-WPP | VFD on Cooling Tower Fan | Other Non-Mfg | Process Cooling | New | motor | 5,992 | 22% | 0.38 | 15 | \$282 | 20% | 2.22 |
| FE-WPP | VFD on Cooling Tower Fan | Other Non-Mfg | Process Cooling | ROB | motor | 5,992 | 22% | 0.38 | 15 | \$282 | 20% | 2.22 |
| FE-WPP | Crate Heating Pads | Other Non-Mfg | Process Heating | Early | end use | 12,700 | 18% | 0.30 | 15 | \$323 | 9% | 2.51 |
| FE-WPP | Crate Heating Pads | Other Non-Mfg | Process Heating | New | end use | 12,700 | 18% | 0.30 | 15 | \$323 | 9% | 2.51 |
| FE-WPP | Crate Heating Pads | Other Non-Mfg | Process Heating | ROB | end use | 12,700 | 18% | 0.30 | 15 | \$323 | 9% | 2.51 |
| FE-WPP | Grain dryers | Other Non-Mfg | Process Heating | Early | end use | 12,700 | 24% | 0.41 | 15 | \$19,598 | 9% | 0.08 |
| FE-WPP | Grain dryers | Other Non-Mfg | Process Heating | New | end use | 12,700 | 24% | 0.41 | 15 | \$19,598 | 9% | 0.08 |
| FE-WPP | Grain dryers | Other Non-Mfg | Process Heating | ROB | end use | 12,700 | 24% | 0.41 | 15 | \$19,598 | 9% | 0.08 |
| FE-WPP | Heat Lamp Setback (Microzone) | Other Non-Mfg | Process Heating | Existing | end use | 12,700 | 0.5% | 0.01 | 15 | \$9.7 | 4% | 2.28 |
| FE-WPP | Heat Lamp Setback (Microzone) | Other Non-Mfg | Process Heating | New | end use | 12,700 | 0.5% | 0.01 | 15 | \$9.7 | 4% | 2.28 |
| FE-WPP | Heat Lamp/Heating Pad Controller | Other Non-Mfg | Process Heating | Existing | end use | 12,700 | 1.8% | 0.03 | 15 | \$23 | 4% | 3.13 |
| FE-WPP | Heat Lamp/Heating Pad Controller | Other Non-Mfg | Process Heating | New | end use | 12,700 | 1.8% | 0.03 | 15 | \$23 | 4% | 3.13 |
| FE-WPP | Heat Lamps | Other Non-Mfg | Process Heating | Early | end use | 12,700 | 3.4% | 0.06 | 10 | \$8.1 | 9% | 4.38 |
| FE-WPP | Heat Lamps | Other Non-Mfg | Process Heating | New | end use | 12,700 | 3.4% | 0.06 | 10 | \$8.1 | 9% | 4.38 |
| FE-WPP | Heat Lamps | Other Non-Mfg | Process Heating | ROB | end use | 12,700 | 3.4% | 0.06 | 10 | \$8.1 | 9% | 4.38 |
| FE-WPP | Improved Controls - Process Heating | Other Non-Mfg | Process Heating | Existing | end use | 12,700 | 17% | 0.30 | 10 | \$146 | 23% | 2.89 |
| FE-WPP | Improved Controls - Process Heating | Other Non-Mfg | Process Heating | New | end use | 12,700 | 17% | 0.30 | 10 | \$146 | 23% | 2.89 |
| FE-WPP | Process Heat O&M | Other Non-Mfg | Process Heating | Existing | end use | 12,700 | 16% | 0.28 | 2 | \$88 | 23% | 0.88 |
| FE-WPP | Process Heat O&M | Other Non-Mfg | Process Heating | New | end use | 12,700 | 16% | 0.28 | 2 | \$88 | 23% | 0.88 |
| FE-WPP | Facility Energy Management | Other Non-Mfg | Process Other | Existing | end use | 1,371 | 1.9% | 0.00 | 2 | \$0.5 | 73% | 1.10 |
| FE-WPP | Facility Energy Management | Other Non-Mfg | Process Other | New | end use | 1,371 | 1.9% | 0.00 | 2 | \$0.5 | 73% | 1.09 |
| FE-WPP | Adjustable speed drive on compressors | Other Non-Mfg | Process Refrigeration | Early | end use | 1,610 | 12% | 0.03 | 10 | \$30 | 30% | 1.77 |
| FE-WPP | Adjustable speed drive on compressors | Other Non-Mfg | Process Refrigeration | New | end use | 1,610 | 12% | 0.03 | 10 | \$30 | 30% | 1.78 |
| FE-WPP | Adjustable speed drive on compressors | Other Non-Mfg | Process Refrigeration | ROB | end use | 1,610 | 12% | 0.03 | 10 | \$30 | 30% | 1.78 |
| FE-WPP | Cooling Tower Optimization | Other Non-Mfg | Process Refrigeration | Existing | building | 3,078 | 20% | 0.22 | 10 | \$19 | 15% | 4.90 |
| FE-WPP | Optimization of operating parameters | Other Non-Mfg | Process Refrigeration | Existing | end use | 1,610 | 13% | 0.03 | 3 | \$13 | 27% | 1.11 |
| FE-WPP | Optimization of operating parameters | Other Non-Mfg | Process Refrigeration | New | end use | 1,610 | 13% | 0.03 | 3 | \$13 | 27% | 1.11 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|--------|--------------------------------------|----------------|-----------------------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| FE-WPP | Synchronous Belts | Other Non-Mfg | Process Refrigeration | Early | end use | 1,610 | 1.2% | 0.00 | 10 | \$2.4 | 30% | 2.06 |
| FE-WPP | Synchronous Belts | Other Non-Mfg | Process Refrigeration | New | end use | 1,610 | 1.2% | 0.00 | 10 | \$2.4 | 30% | 2.06 |
| FE-WPP | Synchronous Belts | Other Non-Mfg | Process Refrigeration | ROB | end use | 1,610 | 1.2% | 0.00 | 10 | \$2.4 | 30% | 2.06 |
| FE-WPP | VFD on Cooling Tower Fan | Other Non-Mfg | Process Refrigeration | Early | motor | 3,078 | 21% | 0.19 | 15 | \$142 | 20% | 2.23 |
| FE-WPP | VFD on Cooling Tower Fan | Other Non-Mfg | Process Refrigeration | New | motor | 3,078 | 22% | 0.19 | 15 | \$145 | 20% | 2.22 |
| FE-WPP | VFD on Cooling Tower Fan | Other Non-Mfg | Process Refrigeration | ROB | motor | 3,078 | 22% | 0.19 | 15 | \$145 | 20% | 2.22 |
| FE-WPP | Facility Energy Management | Other Non-Mfg | Pumps | Existing | end use | 15,983 | 1.9% | 0.04 | 2 | \$6.2 | 34% | 1.13 |
| FE-WPP | Facility Energy Management | Other Non-Mfg | Pumps | New | end use | 15,983 | 1.9% | 0.04 | 2 | \$6.2 | 34% | 1.13 |
| FE-WPP | HE Motors | Other Non-Mfg | Pumps | Early | end use | 15,983 | 2.0% | 0.04 | 15 | \$95 | 36% | 1.53 |
| FE-WPP | HE Motors | Other Non-Mfg | Pumps | New | end use | 15,983 | 2.0% | 0.04 | 15 | \$95 | 36% | 1.53 |
| FE-WPP | HE Motors | Other Non-Mfg | Pumps | ROB | end use | 15,983 | 2.0% | 0.04 | 15 | \$95 | 36% | 1.53 |
| FE-WPP | Motor rewinds | Other Non-Mfg | Pumps | Existing | end use | 15,983 | 0.6% | 0.01 | 9 | \$23 | 6% | 1.22 |
| FE-WPP | Motor rewinds | Other Non-Mfg | Pumps | New | end use | 15,983 | 0.6% | 0.01 | 9 | \$23 | 6% | 1.24 |
| FE-WPP | Synchronous Belts | Other Non-Mfg | Pumps | Early | end use | 15,983 | 1.2% | 0.02 | 10 | \$24 | 30% | 2.03 |
| FE-WPP | Synchronous Belts | Other Non-Mfg | Pumps | New | end use | 15,983 | 1.2% | 0.02 | 10 | \$24 | 30% | 2.03 |
| FE-WPP | Synchronous Belts | Other Non-Mfg | Pumps | ROB | end use | 15,983 | 1.2% | 0.02 | 10 | \$24 | 30% | 2.03 |
| PECO | Circulating Fans | Mfg: Chemicals | Fans | Early | end use | 679,532 | 5.0% | 4.04 | 10 | \$4,137 | 68% | 2.32 |
| PECO | Circulating Fans | Mfg: Chemicals | Fans | New | end use | 679,532 | 5.0% | 4.04 | 10 | \$4,137 | 68% | 2.31 |
| PECO | Circulating Fans | Mfg: Chemicals | Fans | ROB | end use | 679,532 | 5.0% | 4.04 | 10 | \$4,137 | 68% | 2.31 |
| PECO | Facility Energy Management | Mfg: Chemicals | Fans | Existing | end use | 679,532 | 2.6% | 1.49 | 2 | \$262 | 77% | 1.11 |
| PECO | Facility Energy Management | Mfg: Chemicals | Fans | New | end use | 679,532 | 3.2% | 1.49 | 2 | \$262 | 77% | 1.13 |
| PECO | HE Motors | Mfg: Chemicals | Fans | Early | end use | 679,532 | 2.0% | 1.66 | 15 | \$4,045 | 77% | 1.68 |
| PECO | HE Motors | Mfg: Chemicals | Fans | New | end use | 679,532 | 2.0% | 1.66 | 15 | \$4,045 | 77% | 1.68 |
| PECO | HE Motors | Mfg: Chemicals | Fans | ROB | end use | 679,532 | 2.0% | 1.66 | 15 | \$4,045 | 77% | 1.68 |
| PECO | Improved Controls - Fans | Mfg: Chemicals | Fans | Existing | end use | 679,532 | 7.1% | 5.75 | 10 | \$2,635 | 88% | 3.55 |
| PECO | Improved Controls - Fans | Mfg: Chemicals | Fans | New | end use | 679,532 | 7.1% | 5.75 | 10 | \$2,635 | 88% | 3.55 |
| PECO | Properly Sized Fans | Mfg: Chemicals | Fans | Early | end use | 679,532 | 13% | 10.64 | 10 | \$13,918 | 41% | 1.96 |
| PECO | Properly Sized Fans | Mfg: Chemicals | Fans | New | end use | 679,532 | 13% | 10.64 | 10 | \$13,918 | 41% | 1.96 |
| PECO | Properly Sized Fans | Mfg: Chemicals | Fans | ROB | end use | 679,532 | 13% | 10.64 | 10 | \$13,918 | 41% | 1.96 |
| PECO | Synchronous Belts | Mfg: Chemicals | Fans | Early | end use | 679,532 | 1.2% | 0.94 | 10 | \$1,001 | 41% | 2.25 |
| PECO | Synchronous Belts | Mfg: Chemicals | Fans | New | end use | 679,532 | 1.2% | 0.94 | 10 | \$1,001 | 41% | 2.25 |
| PECO | Synchronous Belts | Mfg: Chemicals | Fans | ROB | end use | 679,532 | 1.2% | 0.94 | 10 | \$1,001 | 41% | 2.25 |
| PECO | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Chemicals | HVAC | Early | unit (ton) | 271,753 | 9.2% | 6.47 | 15 | \$49,525 | 28% | 0.34 |
| PECO | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Chemicals | HVAC | New | unit (ton) | 271,753 | 4.1% | 2.91 | 15 | \$11,999 | 28% | 0.62 |
| PECO | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Chemicals | HVAC | ROB | unit (ton) | 271,753 | 4.1% | 2.91 | 15 | \$11,999 | 28% | 0.62 |
| PECO | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Chemicals | HVAC | Early | unit (ton) | 271,753 | 12% | 8.75 | 15 | \$58,385 | 28% | 0.39 |
| PECO | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Chemicals | HVAC | New | unit (ton) | 271,753 | 7.7% | 5.42 | 15 | \$25,272 | 28% | 0.55 |
| PECO | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Chemicals | HVAC | ROB | unit (ton) | 271,753 | 7.7% | 5.42 | 15 | \$25,272 | 28% | 0.55 |
| PECO | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Chemicals | HVAC | Early | unit (ton) | 271,753 | 15% | 10.74 | 15 | \$67,245 | 29% | 0.42 |
| PECO | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Chemicals | HVAC | New | unit (ton) | 271,753 | 11% | 7.63 | 15 | \$38,546 | 29% | 0.51 |
| PECO | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Chemicals | HVAC | ROB | unit (ton) | 271,753 | 11% | 7.63 | 15 | \$38,546 | 29% | 0.51 |
| PECO | >760k min 10.2 EER Air Conditioner | Mfg: Chemicals | HVAC | Early | unit (ton) | 271,753 | 2.1% | 1.50 | 15 | \$86,245 | 35% | 0.05 |
| PECO | >760k min 10.2 EER Air Conditioner | Mfg: Chemicals | HVAC | New | unit (ton) | 271,753 | 2.8% | 1.99 | 15 | \$7,795 | 35% | 0.65 |
| PECO | >760k min 10.2 EER Air Conditioner | Mfg: Chemicals | HVAC | ROB | unit (ton) | 271,753 | 2.8% | 1.99 | 15 | \$7,795 | 35% | 0.65 |
| PECO | 135-240k min 12 EER Air Conditioner | Mfg: Chemicals | HVAC | Early | unit (ton) | 271,753 | 10% | 7.37 | 15 | \$93,390 | 35% | 0.21 |
| PECO | 135-240k min 12 EER Air Conditioner | Mfg: Chemicals | HVAC | New | unit (ton) | 271,753 | 5.8% | 4.07 | 15 | \$11,027 | 35% | 0.91 |
| PECO | 135-240k min 12 EER Air Conditioner | Mfg: Chemicals | HVAC | ROB | unit (ton) | 271,753 | 5.8% | 4.07 | 15 | \$11,027 | 35% | 0.91 |
| PECO | 240k-760k min 11 EER Air Conditioner | Mfg: Chemicals | HVAC | Early | unit (ton) | 271,753 | 5.2% | 3.67 | 15 | \$86,299 | 35% | 0.11 |
| PECO | 240k-760k min 11 EER Air Conditioner | Mfg: Chemicals | HVAC | New | unit (ton) | 271,753 | 5.3% | 3.77 | 15 | \$9,246 | 35% | 1.00 |
| PECO | 240k-760k min 11 EER Air Conditioner | Mfg: Chemicals | HVAC | ROB | unit (ton) | 271,753 | 5.3% | 3.77 | 15 | \$9,246 | 35% | 1.00 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---|----------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Chemicals | HVAC | Early | unit (ton) | 271,753 | 9.7% | 6.84 | 15 | \$95,623 | 35% | 0.19 |
| PECO | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Chemicals | HVAC | New | unit (ton) | 271,753 | 3.8% | 2.71 | 15 | \$13,643 | 35% | 0.51 |
| PECO | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Chemicals | HVAC | ROB | unit (ton) | 271,753 | 3.8% | 2.71 | 15 | \$13,643 | 35% | 0.51 |
| PECO | Ceiling Insualtions (Going upto R 20) | Mfg: Chemicals | HVAC | Existing | building | 271,753 | 5.9% | 4.04 | 15 | \$823,367 | 71% | 0.01 |
| PECO | Ceiling Insualtions (Going upto R 20) | Mfg: Chemicals | HVAC | New | building | 271,753 | 3.7% | 2.53 | 15 | \$782,633 | 94% | 0.01 |
| PECO | Chiller Tuneup/Diagnostics | Mfg: Chemicals | HVAC | Existing | building | 271,753 | 8.0% | 7.97 | 10 | \$693,906 | 59% | 0.02 |
| PECO | Chiller Tuneup/Diagnostics | Mfg: Chemicals | HVAC | New | building | 271,753 | 8.0% | 7.99 | 10 | \$693,906 | 59% | 0.02 |
| PECO | Cooling Tower Optimization | Mfg: Chemicals | HVAC | Existing | building | 271,753 | 20% | 19.45 | 10 | \$1,667 | 12% | 5.50 |
| PECO | Duct Insulation, Add R8 | Mfg: Chemicals | HVAC | Existing | building | 271,753 | 1.5% | 0.87 | 15 | \$2,159 | 18% | 1.16 |
| PECO | Duct Insulation, Add R8 | Mfg: Chemicals | HVAC | New | building | 271,753 | 1.5% | 0.87 | 15 | \$2,159 | 9% | 1.16 |
| PECO | Ductless Heat Pump | Mfg: Chemicals | HVAC | Early | heat pump | 271,753 | 0.8% | 0.51 | 15 | \$21,485 | 83% | 0.07 |
| PECO | Ductless Heat Pump | Mfg: Chemicals | HVAC | New | heat pump | 271,753 | 0.4% | 0.27 | 15 | \$6,239 | 83% | 0.13 |
| PECO | Ductless Heat Pump | Mfg: Chemicals | HVAC | ROB | heat pump | 271,753 | 0.4% | 0.27 | 15 | \$6,239 | 83% | 0.13 |
| PECO | DX Coil Cleaning | Mfg: Chemicals | HVAC | Existing | building | 271,753 | 13% | 12.47 | 1 | \$2,605 | 73% | 0.46 |
| PECO | DX Coil Cleaning | Mfg: Chemicals | HVAC | New | building | 271,753 | 13% | 12.46 | 1 | \$2,605 | 73% | 0.46 |
| PECO | Efficient Unit Heating System | Mfg: Chemicals | HVAC | Early | heater | 271,753 | 6.9% | 0.16 | 15 | \$14,671 | 83% | 0.67 |
| PECO | Efficient Unit Heating System | Mfg: Chemicals | HVAC | New | heater | 271,753 | 4.0% | 0.09 | 15 | \$10,007 | 83% | 0.57 |
| PECO | Efficient Unit Heating System | Mfg: Chemicals | HVAC | ROB | heater | 271,753 | 4.0% | 0.09 | 15 | \$10,007 | 83% | 0.57 |
| PECO | Ground Source Heat Pump (Closed Loop) | Mfg: Chemicals | HVAC | Early | heat pump | 271,753 | 1.3% | 0.79 | 15 | \$44,611 | 19% | 0.05 |
| PECO | Ground Source Heat Pump (Closed Loop) | Mfg: Chemicals | HVAC | New | heat pump | 271,753 | 1.0% | 0.62 | 15 | \$17,614 | 19% | 0.11 |
| PECO | Ground Source Heat Pump (Closed Loop) | Mfg: Chemicals | HVAC | ROB | heat pump | 271,753 | 1.0% | 0.62 | 15 | \$17,614 | 19% | 0.11 |
| PECO | Ground Source Heat Pump (Open Loop) | Mfg: Chemicals | HVAC | Early | heat pump | 271,753 | 1.3% | 0.79 | 15 | \$28,571 | 19% | 0.08 |
| PECO | Ground Source Heat Pump (Open Loop) | Mfg: Chemicals | HVAC | New | heat pump | 271,753 | 1.0% | 0.62 | 15 | \$606 | 19% | 2.37 |
| PECO | Ground Source Heat Pump (Open Loop) | Mfg: Chemicals | HVAC | ROB | heat pump | 271,753 | 1.0% | 0.62 | 15 | \$606 | 19% | 2.37 |
| PECO | HE Air Cooled Chiller, 100 Tons | Mfg: Chemicals | HVAC | Early | unit (ton) | 271,753 | 1.5% | 0.89 | 15 | \$316,120 | 89% | 0.01 |
| PECO | HE Air Cooled Chiller, 100 Tons | Mfg: Chemicals | HVAC | New | unit (ton) | 271,753 | 0.4% | 0.25 | 15 | \$46,053 | 89% | 0.02 |
| PECO | HE Air Cooled Chiller, 100 Tons | Mfg: Chemicals | HVAC | ROB | unit (ton) | 271,753 | 0.4% | 0.25 | 15 | \$46,053 | 89% | 0.02 |
| PECO | HE Air Cooled Chiller, 150 Tons | Mfg: Chemicals | HVAC | Early | unit (ton) | 271,753 | 1.4% | 0.88 | 15 | \$273,057 | 89% | 0.01 |
| PECO | HE Air Cooled Chiller, 150 Tons | Mfg: Chemicals | HVAC | New | unit (ton) | 271,753 | 0.3% | 0.18 | 15 | \$22,616 | 89% | 0.02 |
| PECO | HE Air Cooled Chiller, 150 Tons | Mfg: Chemicals | HVAC | ROB | unit (ton) | 271,753 | 0.3% | 0.18 | 15 | \$22,616 | 89% | 0.02 |
| PECO | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Chemicals | HVAC | Early | heat pump | 271,753 | 1.4% | 0.83 | 12 | \$11,645 | 81% | 0.18 |
| PECO | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Chemicals | HVAC | Early | heat pump | 271,753 | 1.1% | 0.69 | 12 | \$8,508 | 81% | 0.20 |
| PECO | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Chemicals | HVAC | New | heat pump | 271,753 | 1.0% | 0.62 | 12 | \$5,199 | 81% | 0.30 |
| PECO | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Chemicals | HVAC | New | heat pump | 271,753 | 0.8% | 0.46 | 12 | \$1,817 | 81% | 0.61 |
| PECO | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Chemicals | HVAC | ROB | heat pump | 271,753 | 1.0% | 0.62 | 12 | \$5,199 | 81% | 0.30 |
| PECO | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Chemicals | HVAC | ROB | heat pump | 271,753 | 0.8% | 0.46 | 12 | \$1,817 | 81% | 0.61 |
| PECO | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Chemicals | HVAC | Early | unit (ton) | 271,753 | 1.6% | 0.97 | 15 | \$25,082 | 89% | 0.12 |
| PECO | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Chemicals | HVAC | New | unit (ton) | 271,753 | 0.9% | 0.56 | 15 | \$8,342 | 89% | 0.20 |
| PECO | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Chemicals | HVAC | ROB | unit (ton) | 271,753 | 0.9% | 0.56 | 15 | \$8,342 | 89% | 0.20 |
| PECO | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Chemicals | HVAC | Early | unit (ton) | 271,753 | 1.4% | 0.86 | 15 | \$24,497 | 89% | 0.11 |
| PECO | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Chemicals | HVAC | New | unit (ton) | 271,753 | 1.0% | 0.60 | 15 | \$4,784 | 89% | 0.37 |
| PECO | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Chemicals | HVAC | ROB | unit (ton) | 271,753 | 1.4% | 0.86 | 15 | \$4,394 | 89% | 0.56 |
| PECO | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Chemicals | HVAC | Early | unit (ton) | 271,753 | 1.4% | 0.85 | 15 | \$28,993 | 89% | 0.09 |
| PECO | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Chemicals | HVAC | New | unit (ton) | 271,753 | 0.9% | 0.54 | 15 | \$12,207 | 89% | 0.13 |
| PECO | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Chemicals | HVAC | ROB | unit (ton) | 271,753 | 1.4% | 0.85 | 15 | \$11,048 | 89% | 0.23 |
| PECO | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Chemicals | HVAC | Early | unit (ton) | 271,753 | 1.4% | 0.85 | 15 | \$27,928 | 89% | 0.09 |
| PECO | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Chemicals | HVAC | New | unit (ton) | 271,753 | 0.9% | 0.54 | 15 | \$10,611 | 89% | 0.15 |
| PECO | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Chemicals | HVAC | ROB | unit (ton) | 271,753 | 1.4% | 0.85 | 15 | \$9,604 | 89% | 0.26 |
| PECO | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Chemicals | HVAC | Early | unit (ton) | 271,753 | 1.8% | 1.10 | 15 | \$30,093 | 89% | 0.11 |
| PECO | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Chemicals | HVAC | New | unit (ton) | 271,753 | 0.5% | 0.34 | 15 | \$18,634 | 89% | 0.05 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---|----------------|----------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Chemicals | HVAC | ROB | unit (ton) | 271,753 | 1.8% | 1.10 | 15 | \$14,469 | 89% | 0.23 |
| PECO | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Chemicals | HVAC | Early | unit (ton) | 271,753 | 2.1% | 1.31 | 15 | \$27,679 | 89% | 0.14 |
| PECO | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Chemicals | HVAC | New | unit (ton) | 271,753 | 0.8% | 0.47 | 15 | \$11,107 | 89% | 0.13 |
| PECO | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Chemicals | HVAC | ROB | unit (ton) | 271,753 | 0.8% | 0.47 | 15 | \$11,107 | 89% | 0.13 |
| PECO | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Chemicals | HVAC | Early | unit (ton) | 271,753 | 2.4% | 1.47 | 15 | \$23,459 | 89% | 0.19 |
| PECO | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Chemicals | HVAC | New | unit (ton) | 271,753 | 0.9% | 0.55 | 15 | \$5,903 | 89% | 0.28 |
| PECO | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Chemicals | HVAC | ROB | unit (ton) | 271,753 | 2.4% | 1.47 | 15 | \$4,209 | 89% | 0.96 |
| PECO | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Chemicals | HVAC | Early | unit (ton) | 271,753 | 1.8% | 1.11 | 15 | \$23,223 | 89% | 0.14 |
| PECO | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Chemicals | HVAC | New | unit (ton) | 271,753 | 0.7% | 0.42 | 15 | \$6,503 | 89% | 0.19 |
| PECO | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Chemicals | HVAC | ROB | unit (ton) | 271,753 | 1.8% | 1.11 | 15 | \$5,152 | 89% | 0.62 |
| PECO | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Chemicals | HVAC | Existing | building | 271,753 | 2.9% | 1.60 | 5 | \$2,883 | 55% | 0.60 |
| PECO | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Chemicals | HVAC | New | building | 271,753 | 0.6% | 0.63 | 5 | \$1,730 | 51% | 0.28 |
| PECO | Improved Controls - HVAC | Mfg: Chemicals | HVAC | Existing | end use | 271,753 | 22% | 8.15 | 10 | \$2,857 | 76% | 3.68 |
| PECO | Improved Controls - HVAC | Mfg: Chemicals | HVAC | New | end use | 271,753 | 22% | 8.15 | 10 | \$2,857 | 76% | 3.69 |
| PECO | Outside Air Economizer | Mfg: Chemicals | HVAC | Existing | building | 271,753 | 1.1% | 0.76 | 10 | \$998,470 | 82% | 0.00 |
| PECO | Outside Air Economizer | Mfg: Chemicals | HVAC | New | building | 271,753 | 1.1% | 0.76 | 10 | \$998,470 | 82% | 0.00 |
| PECO | Recommissioning | Mfg: Chemicals | HVAC | Existing | end use | 271,753 | 6.4% | 1.95 | 10 | \$373 | 88% | 4.63 |
| PECO | Recommissioning | Mfg: Chemicals | HVAC | New | end use | 271,753 | 5.4% | 1.95 | 10 | \$373 | 88% | 4.53 |
| PECO | Room AC (with louvered sides) | Mfg: Chemicals | HVAC | Early | unit (ton) | 271,753 | 7.7% | 4.72 | 9 | \$21,309 | 78% | 0.42 |
| PECO | Room AC (with louvered sides) | Mfg: Chemicals | HVAC | New | unit (ton) | 271,753 | 2.6% | 1.57 | 9 | \$1,167 | 78% | 1.94 |
| PECO | Room AC (with louvered sides) | Mfg: Chemicals | HVAC | ROB | unit (ton) | 271,753 | 2.6% | 1.57 | 9 | \$1,167 | 78% | 1.94 |
| PECO | Variable Refrigerant Flow Heat Pump | Mfg: Chemicals | HVAC | New | measure | 271,753 | 0.1% | 0.07 | 13 | \$2,001 | 43% | 0.10 |
| PECO | Variable Refrigerant Flow Heat Pump | Mfg: Chemicals | HVAC | ROB | measure | 271,753 | 0.1% | 0.07 | 13 | \$2,001 | 43% | 0.10 |
| PECO | VFD on Cooling Tower Fan | Mfg: Chemicals | HVAC | Early | motor | 271,753 | 21% | 17.14 | 15 | \$12,548 | 15% | 2.53 |
| PECO | VFD on Cooling Tower Fan | Mfg: Chemicals | HVAC | New | motor | 271,753 | 22% | 17.14 | 15 | \$12,788 | 15% | 2.52 |
| PECO | VFD on Cooling Tower Fan | Mfg: Chemicals | HVAC | ROB | motor | 271,753 | 22% | 17.14 | 15 | \$12,788 | 15% | 2.52 |
| PECO | Wall Insualtions (Going upto R 21) | Mfg: Chemicals | HVAC | Existing | building | 271,753 | 19% | 12.99 | 15 | \$193,315 | 26% | 0.18 |
| PECO | Wall Insualtions (Going upto R 21) | Mfg: Chemicals | HVAC | New | building | 271,753 | 0.6% | 0.41 | 15 | \$148,282 | 94% | 0.01 |
| PECO | Water Source Heat Pump (4 ton) | Mfg: Chemicals | HVAC | Early | heat pump | 271,753 | 1.5% | 0.94 | 15 | \$46,197 | 28% | 0.06 |
| PECO | Water Source Heat Pump (4 ton) | Mfg: Chemicals | HVAC | New | heat pump | 271,753 | 1.1% | 0.69 | 15 | \$22,515 | 28% | 0.09 |
| PECO | Water Source Heat Pump (4 ton) | Mfg: Chemicals | HVAC | ROB | heat pump | 271,753 | 1.1% | 0.69 | 15 | \$22,515 | 28% | 0.09 |
| PECO | Efficient Metal Halide (High Bay) | Mfg: Chemicals | Lighting | Early | end use | 159,037 | 42% | 0.00 | 9 | \$24,851 | 53% | 0.83 |
| PECO | Efficient Metal Halide (High Bay) | Mfg: Chemicals | Lighting | New | end use | 159,037 | 41% | 0.00 | 13 | \$663,790 | 61% | 0.05 |
| PECO | Efficient Metal Halide (High Bay) | Mfg: Chemicals | Lighting | ROB | end use | 159,037 | 41% | 0.00 | 13 | \$507,306 | 61% | 0.06 |
| PECO | Induction (High Bay) | Mfg: Chemicals | Lighting | Early | end use | 159,037 | 94% | 0.00 | 13 | \$73,944 | 95% | 0.88 |
| PECO | Induction (High Bay) | Mfg: Chemicals | Lighting | New | end use | 159,037 | 94% | 0.00 | 13 | \$69,230 | 95% | 0.94 |
| PECO | Induction (High Bay) | Mfg: Chemicals | Lighting | ROB | end use | 159,037 | 94% | 0.00 | 13 | \$52,617 | 95% | 1.18 |
| PECO | LED (High Bay) | Mfg: Chemicals | Lighting | Early | end use | 159,037 | 69% | 0.00 | 14 | \$87,043 | 95% | 0.61 |
| PECO | LED (High Bay) | Mfg: Chemicals | Lighting | New | end use | 159,037 | 55% | 0.00 | 14 | \$96,615 | 95% | 0.45 |
| PECO | LED (High Bay) | Mfg: Chemicals | Lighting | ROB | end use | 159,037 | 59% | 0.00 | 14 | \$63,658 | 95% | 0.70 |
| PECO | Lighting Controls | Mfg: Chemicals | Lighting | Existing | end use | 159,037 | 20% | 0.00 | 6 | \$596,212 | 16% | 0.01 |
| PECO | Lighting Controls | Mfg: Chemicals | Lighting | New | end use | 159,037 | 12% | 0.00 | 10 | \$793,156 | 11% | 0.01 |
| PECO | Linear Fluorescent (High Bay) | Mfg: Chemicals | Lighting | Early | end use | 159,037 | 17% | 0.00 | 14 | \$18,197 | 98% | 0.70 |
| PECO | Linear Fluorescent (High Bay) | Mfg: Chemicals | Lighting | New | end use | 159,037 | 13% | 0.00 | 14 | \$5,771 | 91% | 1.48 |
| PECO | Linear Fluorescent (High Bay) | Mfg: Chemicals | Lighting | ROB | end use | 159,037 | 13% | 0.00 | 14 | \$3,695 | 91% | 2.13 |
| PECO | Metal Halide (High Bay) | Mfg: Chemicals | Lighting | Early | end use | 159,037 | 62% | 0.00 | 13 | \$109,328 | 38% | 0.42 |
| PECO | Metal Halide (High Bay) | Mfg: Chemicals | Lighting | New | end use | 159,037 | 73% | 0.00 | 13 | \$26,139 | 38% | 1.68 |
| PECO | Metal Halide (High Bay) | Mfg: Chemicals | Lighting | ROB | end use | 159,037 | 73% | 0.00 | 13 | \$19,866 | 38% | 2.06 |
| PECO | Screw Base CFL | Mfg: Chemicals | Lighting | Early | end use | 159,037 | 80% | 0.00 | 7 | \$43,207 | 17% | 0.69 |
| PECO | Screw Base CFL | Mfg: Chemicals | Lighting | New | end use | 159,037 | 73% | 0.00 | 9 | \$35,311 | 18% | 0.97 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|--|----------------|----------|----------|---------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Screw Base CFL | Mfg: Chemicals | Lighting | ROB | end use | 159,037 | 73% | 0.00 | 9 | \$29,555 | 17% | 1.12 |
| PECO | Screw Base LED | Mfg: Chemicals | Lighting | Early | end use | 159,037 | 76% | 0.00 | 9 | \$26,516 | 21% | 1.31 |
| PECO | Screw Base LED | Mfg: Chemicals | Lighting | New | end use | 159,037 | 77% | 0.00 | 9 | \$14,771 | 20% | 1.99 |
| PECO | Screw Base LED | Mfg: Chemicals | Lighting | ROB | end use | 159,037 | 77% | 0.00 | 9 | \$11,726 | 21% | 2.29 |
| PECO | T8 High Performance Linear Florescent | Mfg: Chemicals | Lighting | Early | end use | 159,037 | 36% | 0.00 | 14 | \$15,219 | 71% | 1.57 |
| PECO | T8 High Performance Linear Florescent | Mfg: Chemicals | Lighting | New | end use | 159,037 | 26% | 0.00 | 14 | \$5,445 | 76% | 2.64 |
| PECO | T8 High Performance Linear Florescent | Mfg: Chemicals | Lighting | ROB | end use | 159,037 | 26% | 0.00 | 14 | \$4,138 | 76% | 3.12 |
| PECO | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Chemicals | Motors | Early | end use | 214,538 | 0.9% | 0.28 | 15 | \$3,277 | 81% | 0.37 |
| PECO | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Chemicals | Motors | New | end use | 214,538 | 0.9% | 0.28 | 15 | \$3,277 | 81% | 0.37 |
| PECO | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Chemicals | Motors | ROB | end use | 214,538 | 0.9% | 0.28 | 15 | \$3,277 | 81% | 0.38 |
| PECO | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Chemicals | Motors | Early | end use | 214,538 | 0.7% | 0.23 | 15 | \$1,990 | 73% | 0.50 |
| PECO | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Chemicals | Motors | New | end use | 214,538 | 0.7% | 0.23 | 15 | \$1,990 | 73% | 0.50 |
| PECO | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Chemicals | Motors | ROB | end use | 214,538 | 0.7% | 0.23 | 15 | \$1,990 | 73% | 0.50 |
| PECO | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Chemicals | Motors | Early | end use | 214,538 | 0.5% | 0.14 | 15 | \$763 | 81% | 0.77 |
| PECO | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Chemicals | Motors | New | end use | 214,538 | 0.5% | 0.14 | 15 | \$763 | 81% | 0.79 |
| PECO | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Chemicals | Motors | ROB | end use | 214,538 | 0.5% | 0.14 | 15 | \$763 | 81% | 0.77 |
| PECO | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Chemicals | Motors | Early | end use | 214,538 | 0.4% | 0.12 | 15 | \$252 | 73% | 1.82 |
| PECO | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Chemicals | Motors | New | end use | 214,538 | 0.4% | 0.12 | 15 | \$252 | 73% | 1.81 |
| PECO | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Chemicals | Motors | ROB | end use | 214,538 | 0.4% | 0.12 | 15 | \$252 | 73% | 1.80 |
| PECO | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Chemicals | Motors | Early | end use | 214,538 | 0.9% | 0.28 | 15 | \$377 | 47% | 2.52 |
| PECO | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Chemicals | Motors | New | end use | 214,538 | 0.9% | 0.28 | 15 | \$377 | 47% | 2.54 |
| PECO | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Chemicals | Motors | ROB | end use | 214,538 | 0.9% | 0.28 | 15 | \$377 | 47% | 2.52 |
| PECO | Facility Energy Management | Mfg: Chemicals | Motors | Existing | end use | 214,538 | 4.7% | 0.56 | 2 | \$83 | 77% | 1.23 |
| PECO | Facility Energy Management | Mfg: Chemicals | Motors | New | end use | 214,538 | 3.8% | 0.56 | 2 | \$83 | 77% | 1.22 |
| PECO | HE Motors | Mfg: Chemicals | Motors | Early | end use | 214,538 | 2.0% | 0.63 | 15 | \$1,277 | 38% | 1.81 |
| PECO | HE Motors | Mfg: Chemicals | Motors | New | end use | 214,538 | 2.0% | 0.63 | 15 | \$1,277 | 38% | 1.81 |
| PECO | HE Motors | Mfg: Chemicals | Motors | ROB | end use | 214,538 | 2.0% | 0.63 | 15 | \$1,277 | 38% | 1.81 |
| PECO | High-Efficiency Ventilation System | Mfg: Chemicals | Motors | Early | end use | 214,538 | 5.7% | 1.74 | 10 | \$13,407 | 73% | 0.41 |
| PECO | High-Efficiency Ventilation System | Mfg: Chemicals | Motors | New | end use | 214,538 | 5.7% | 1.74 | 10 | \$13,407 | 73% | 0.41 |
| PECO | High-Efficiency Ventilation System | Mfg: Chemicals | Motors | ROB | end use | 214,538 | 5.7% | 1.74 | 10 | \$13,407 | 73% | 0.41 |
| PECO | Improved Controls - Motors | Mfg: Chemicals | Motors | Existing | end use | 214,538 | 4.0% | 1.21 | 10 | \$932 | 73% | 2.65 |
| PECO | Improved Controls - Motors | Mfg: Chemicals | Motors | New | end use | 214,538 | 4.0% | 1.21 | 10 | \$932 | 73% | 2.65 |
| PECO | Motor Management Plan | Mfg: Chemicals | Motors | Existing | end use | 214,538 | 4.6% | 0.89 | 10 | \$437 | 73% | 3.97 |
| PECO | Motor Management Plan | Mfg: Chemicals | Motors | New | end use | 214,538 | 3.3% | 0.89 | 10 | \$437 | 73% | 3.55 |
| PECO | Motors Other | Mfg: Chemicals | Motors | Existing | end use | 214,538 | 1.1% | 0.34 | 15 | \$43 | 83% | 7.39 |
| PECO | Motors Other | Mfg: Chemicals | Motors | New | end use | 214,538 | 1.1% | 0.34 | 15 | \$43 | 83% | 7.39 |
| PECO | Motors: Rewind 101-200 HP | Mfg: Chemicals | Motors | Existing | end use | 214,538 | 2.1% | 0.17 | 10 | \$271 | 27% | 3.30 |
| PECO | Motors: Rewind 101-200 HP | Mfg: Chemicals | Motors | New | end use | 214,538 | 1.0% | 0.17 | 10 | \$271 | 27% | 2.23 |
| PECO | Motors: Rewind 201-500 HP | Mfg: Chemicals | Motors | Existing | end use | 214,538 | 1.5% | 0.17 | 8 | \$170 | 27% | 2.98 |
| PECO | Motors: Rewind 201-500 HP | Mfg: Chemicals | Motors | New | end use | 214,538 | 0.7% | 0.17 | 8 | \$170 | 27% | 2.16 |
| PECO | Motors: Rewind 20-50 HP | Mfg: Chemicals | Motors | Existing | end use | 214,538 | 1.0% | 0.32 | 11 | \$796 | 42% | 1.22 |
| PECO | Motors: Rewind 20-50 HP | Mfg: Chemicals | Motors | New | end use | 214,538 | 2.0% | 0.32 | 11 | \$796 | 42% | 1.95 |
| PECO | Motors: Rewind 500+ HP | Mfg: Chemicals | Motors | Existing | end use | 214,538 | 1.2% | 0.17 | 8 | \$122 | 11% | 3.09 |
| PECO | Motors: Rewind 500+ HP | Mfg: Chemicals | Motors | New | end use | 214,538 | 1.0% | 0.17 | 8 | \$122 | 11% | 2.88 |
| PECO | Motors: Rewind 51-100 HP | Mfg: Chemicals | Motors | Existing | end use | 214,538 | 0.9% | 0.18 | 9 | \$393 | 42% | 1.53 |
| PECO | Motors: Rewind 51-100 HP | Mfg: Chemicals | Motors | New | end use | 214,538 | 1.9% | 0.18 | 9 | \$393 | 42% | 2.40 |
| PECO | Switch from Belt drive to Direct Drive | Mfg: Chemicals | Motors | Early | end use | 214,538 | 7.5% | 2.30 | 12 | \$3,442 | 30% | 1.95 |
| PECO | Switch from Belt drive to Direct Drive | Mfg: Chemicals | Motors | New | end use | 214,538 | 7.5% | 2.30 | 12 | \$3,442 | 30% | 1.95 |
| PECO | Switch from Belt drive to Direct Drive | Mfg: Chemicals | Motors | ROB | end use | 214,538 | 7.5% | 2.30 | 12 | \$3,442 | 30% | 1.95 |
| PECO | Synchronous Belts | Mfg: Chemicals | Motors | Early | end use | 214,538 | 1.2% | 0.36 | 10 | \$316 | 30% | 2.42 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|------------------------------------|----------------|------------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Synchronous Belts | Mfg: Chemicals | Motors | New | end use | 214,538 | 1.2% | 0.36 | 10 | \$316 | 30% | 2.42 |
| PECO | Synchronous Belts | Mfg: Chemicals | Motors | ROB | end use | 214,538 | 1.2% | 0.36 | 10 | \$316 | 30% | 2.42 |
| PECO | Bldg Improvements | Mfg: Chemicals | Other | Existing | end use | 73,055 | 16% | 1.41 | 15 | \$1,593 | 72% | 3.13 |
| PECO | Bldg Improvements | Mfg: Chemicals | Other | New | end use | 73,055 | 16% | 1.41 | 15 | \$1,593 | 72% | 3.13 |
| PECO | Energy Project Management | Mfg: Chemicals | Other | Existing | end use | 73,055 | 30% | 2.52 | 11 | \$2,608 | 63% | 2.68 |
| PECO | Energy Project Management | Mfg: Chemicals | Other | New | end use | 73,055 | 30% | 2.52 | 11 | \$2,608 | 63% | 2.66 |
| PECO | Facility Energy Management | Mfg: Chemicals | Other | Existing | end use | 73,055 | 5.0% | 0.16 | 2 | \$28 | 76% | 1.22 |
| PECO | Facility Energy Management | Mfg: Chemicals | Other | New | end use | 73,055 | 5.9% | 0.16 | 2 | \$28 | 76% | 1.23 |
| PECO | Integrated Plant Energy Management | Mfg: Chemicals | Other | Existing | end use | 73,055 | 50% | 4.35 | 11 | \$7,201 | 48% | 1.90 |
| PECO | Integrated Plant Energy Management | Mfg: Chemicals | Other | New | end use | 73,055 | 51% | 4.35 | 11 | \$7,201 | 48% | 1.92 |
| PECO | Plant Energy Management | Mfg: Chemicals | Other | Existing | end use | 73,055 | 14% | 1.04 | 10 | \$183 | 55% | 5.20 |
| PECO | Plant Energy Management | Mfg: Chemicals | Other | New | end use | 73,055 | 13% | 1.04 | 10 | \$183 | 55% | 5.19 |
| PECO | Transformers | Mfg: Chemicals | Other | Early | end use | 73,055 | 1.6% | 0.14 | 30 | \$233 | 34% | 3.57 |
| PECO | Transformers | Mfg: Chemicals | Other | New | end use | 73,055 | 1.6% | 0.14 | 30 | \$233 | 34% | 3.54 |
| PECO | Transformers | Mfg: Chemicals | Other | ROB | end use | 73,055 | 1.6% | 0.14 | 30 | \$233 | 34% | 3.54 |
| PECO | Air Compressor Demand Reduction | Mfg: Chemicals | Process Air Compressor | Existing | end use | 2,582 | 26% | 0.09 | 10 | \$39 | 52% | 3.67 |
| PECO | Air Compressor Demand Reduction | Mfg: Chemicals | Process Air Compressor | New | end use | 2,582 | 26% | 0.09 | 10 | \$39 | 52% | 3.67 |
| PECO | Facility Energy Management | Mfg: Chemicals | Process Air Compressor | Existing | end use | 2,582 | 7.2% | 0.01 | 2 | \$1.0 | 66% | 1.24 |
| PECO | Facility Energy Management | Mfg: Chemicals | Process Air Compressor | New | end use | 2,582 | 6.6% | 0.01 | 2 | \$1.0 | 66% | 1.24 |
| PECO | HE Compressor motors | Mfg: Chemicals | Process Air Compressor | Early | end use | 2,582 | 1.1% | 0.00 | 15 | \$9.7 | 73% | 1.48 |
| PECO | HE Compressor motors | Mfg: Chemicals | Process Air Compressor | New | end use | 2,582 | 1.1% | 0.00 | 15 | \$9.7 | 73% | 1.49 |
| PECO | HE Compressor motors | Mfg: Chemicals | Process Air Compressor | ROB | end use | 2,582 | 1.1% | 0.00 | 15 | \$9.7 | 73% | 1.49 |
| PECO | Improved Controls - Air Compressor | Mfg: Chemicals | Process Air Compressor | Existing | end use | 2,582 | 41% | 0.14 | 10 | \$46 | 25% | 4.13 |
| PECO | Improved Controls - Air Compressor | Mfg: Chemicals | Process Air Compressor | New | end use | 2,582 | 41% | 0.14 | 10 | \$46 | 25% | 4.13 |
| PECO | Low Pressure-drop Filters | Mfg: Chemicals | Process Air Compressor | Existing | end use | 2,582 | 2.2% | 0.01 | 10 | \$29 | 61% | 0.80 |
| PECO | Low Pressure-drop Filters | Mfg: Chemicals | Process Air Compressor | New | end use | 2,582 | 1.9% | 0.01 | 10 | \$29 | 61% | 0.72 |
| PECO | Outside Air Intake | Mfg: Chemicals | Process Air Compressor | Existing | end use | 2,582 | 1.6% | 0.00 | 10 | \$17 | 48% | 0.98 |
| PECO | Outside Air Intake | Mfg: Chemicals | Process Air Compressor | New | end use | 2,582 | 2.8% | 0.00 | 10 | \$17 | 48% | 1.47 |
| PECO | Receiver Capacity Addition | Mfg: Chemicals | Process Air Compressor | Existing | end use | 2,582 | 7.0% | 0.02 | 10 | \$48 | 36% | 1.39 |
| PECO | Receiver Capacity Addition | Mfg: Chemicals | Process Air Compressor | New | end use | 2,582 | 6.2% | 0.02 | 10 | \$48 | 36% | 1.27 |
| PECO | Refrigerated Cycling Dryers | Mfg: Chemicals | Process Air Compressor | Early | end use | 2,582 | 1.7% | 0.01 | 10 | \$5.9 | 21% | 2.15 |
| PECO | Refrigerated Cycling Dryers | Mfg: Chemicals | Process Air Compressor | New | end use | 2,582 | 1.7% | 0.01 | 10 | \$5.9 | 21% | 2.15 |
| PECO | Refrigerated Cycling Dryers | Mfg: Chemicals | Process Air Compressor | ROB | end use | 2,582 | 1.7% | 0.01 | 10 | \$5.9 | 21% | 2.15 |
| PECO | VFD Controlled Compressor | Mfg: Chemicals | Process Air Compressor | Early | end use | 2,582 | 24% | 0.08 | 10 | \$254 | 28% | 0.92 |
| PECO | VFD Controlled Compressor | Mfg: Chemicals | Process Air Compressor | New | end use | 2,582 | 24% | 0.08 | 10 | \$254 | 28% | 0.92 |
| PECO | VFD Controlled Compressor | Mfg: Chemicals | Process Air Compressor | ROB | end use | 2,582 | 24% | 0.08 | 10 | \$254 | 28% | 0.92 |
| PECO | Zero Loss Condensate Drain | Mfg: Chemicals | Process Air Compressor | Early | end use | 2,582 | 1.9% | 0.01 | 10 | \$15 | 36% | 1.17 |
| PECO | Zero Loss Condensate Drain | Mfg: Chemicals | Process Air Compressor | New | end use | 2,582 | 1.9% | 0.01 | 10 | \$15 | 36% | 1.18 |
| PECO | Zero Loss Condensate Drain | Mfg: Chemicals | Process Air Compressor | ROB | end use | 2,582 | 1.9% | 0.01 | 10 | \$15 | 36% | 1.18 |
| PECO | Clean Room: Change Filter Strategy | Mfg: Chemicals | Process Cooling | Existing | end use | 211,491 | 40% | 17.63 | 1 | \$549 | 13% | 0.78 |
| PECO | Clean Room: Change Filter Strategy | Mfg: Chemicals | Process Cooling | New | end use | 211,491 | 40% | 17.63 | 1 | \$549 | 13% | 0.78 |
| PECO | Clean Room: Chiller Optimize | Mfg: Chemicals | Process Cooling | Existing | end use | 211,491 | 15% | 6.53 | 10 | \$2,553 | 21% | 3.34 |
| PECO | Clean Room: Chiller Optimize | Mfg: Chemicals | Process Cooling | New | end use | 211,491 | 15% | 6.53 | 10 | \$2,553 | 21% | 3.33 |
| PECO | Clean Room: Clean Room HVAC | Mfg: Chemicals | Process Cooling | Existing | end use | 211,491 | 9.1% | 3.97 | 20 | \$3,082 | 31% | 3.60 |
| PECO | Clean Room: Clean Room HVAC | Mfg: Chemicals | Process Cooling | New | end use | 211,491 | 9.2% | 3.97 | 20 | \$3,082 | 31% | 3.63 |
| PECO | Cooling Tower Optimization | Mfg: Chemicals | Process Cooling | Existing | building | 211,491 | 20% | 15.14 | 10 | \$1,297 | 15% | 5.57 |
| PECO | Equipment: Chillers | Mfg: Chemicals | Process Cooling | Early | end use | 211,491 | 18% | 7.88 | 20 | \$9,926 | 39% | 2.37 |
| PECO | Equipment: Chillers | Mfg: Chemicals | Process Cooling | New | end use | 211,491 | 18% | 7.88 | 20 | \$9,926 | 39% | 2.37 |
| PECO | Equipment: Chillers | Mfg: Chemicals | Process Cooling | ROB | end use | 211,491 | 18% | 7.88 | 20 | \$9,926 | 39% | 2.37 |
| PECO | Facility Energy Management | Mfg: Chemicals | Process Cooling | Existing | end use | 211,491 | 8.4% | 0.81 | 2 | \$81 | 50% | 1.27 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---------------------------------------|------------------|-----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Facility Energy Management | Mfg: Chemicals | Process Cooling | New | end use | 211,491 | 9.0% | 0.81 | 2 | \$81 | 50% | 1.27 |
| PECO | Improved Controls - Process Cooling | Mfg: Chemicals | Process Cooling | Existing | end use | 211,491 | 6.4% | 2.64 | 10 | \$11,167 | 47% | 0.56 |
| PECO | Improved Controls - Process Cooling | Mfg: Chemicals | Process Cooling | New | end use | 211,491 | 6.0% | 2.64 | 10 | \$11,167 | 47% | 0.53 |
| PECO | VFD on Cooling Tower Fan | Mfg: Chemicals | Process Cooling | Early | motor | 211,491 | 21% | 13.34 | 15 | \$14,043 | 20% | 1.93 |
| PECO | VFD on Cooling Tower Fan | Mfg: Chemicals | Process Cooling | New | motor | 211,491 | 22% | 13.34 | 15 | \$14,312 | 20% | 1.92 |
| PECO | VFD on Cooling Tower Fan | Mfg: Chemicals | Process Cooling | ROB | motor | 211,491 | 22% | 13.34 | 15 | \$14,312 | 20% | 1.92 |
| PECO | Improved Controls - Process Heating | Mfg: Chemicals | Process Heating | Existing | end use | 160,702 | 17% | 3.78 | 10 | \$1,846 | 77% | 3.46 |
| PECO | Improved Controls - Process Heating | Mfg: Chemicals | Process Heating | New | end use | 160,702 | 17% | 3.78 | 10 | \$1,846 | 77% | 3.46 |
| PECO | Process Heat O&M | Mfg: Chemicals | Process Heating | Existing | end use | 160,702 | 16% | 3.57 | 2 | \$1,116 | 77% | 0.92 |
| PECO | Process Heat O&M | Mfg: Chemicals | Process Heating | New | end use | 160,702 | 16% | 3.57 | 2 | \$1,116 | 77% | 0.92 |
| PECO | Facility Energy Management | Mfg: Chemicals | Process Other | Existing | end use | 651,945 | 10% | 1.68 | 2 | \$251 | 73% | 1.26 |
| PECO | Facility Energy Management | Mfg: Chemicals | Process Other | New | end use | 651,945 | 11% | 1.68 | 2 | \$251 | 73% | 1.26 |
| PECO | Adjustable speed drive on compressors | Mfg: Chemicals | Process Refrigeration | Early | end use | 108,641 | 12% | 1.86 | 10 | \$2,009 | 77% | 1.92 |
| PECO | Adjustable speed drive on compressors | Mfg: Chemicals | Process Refrigeration | New | end use | 108,641 | 12% | 1.86 | 10 | \$2,009 | 77% | 1.92 |
| PECO | Adjustable speed drive on compressors | Mfg: Chemicals | Process Refrigeration | ROB | end use | 108,641 | 12% | 1.86 | 10 | \$2,009 | 77% | 1.92 |
| PECO | Cooling Tower Optimization | Mfg: Chemicals | Process Refrigeration | Existing | building | 108,641 | 20% | 7.78 | 10 | \$666 | 15% | 5.57 |
| PECO | Optimization of operating parameters | Mfg: Chemicals | Process Refrigeration | Existing | end use | 108,641 | 13% | 2.08 | 3 | \$877 | 69% | 1.09 |
| PECO | Optimization of operating parameters | Mfg: Chemicals | Process Refrigeration | New | end use | 108,641 | 13% | 2.08 | 3 | \$877 | 69% | 1.10 |
| PECO | Synchronous Belts | Mfg: Chemicals | Process Refrigeration | Early | end use | 108,641 | 1.2% | 0.19 | 10 | \$160 | 77% | 2.23 |
| PECO | Synchronous Belts | Mfg: Chemicals | Process Refrigeration | New | end use | 108,641 | 1.2% | 0.19 | 10 | \$160 | 77% | 2.23 |
| PECO | Synchronous Belts | Mfg: Chemicals | Process Refrigeration | ROB | end use | 108,641 | 1.2% | 0.19 | 10 | \$160 | 77% | 2.23 |
| PECO | VFD on Cooling Tower Fan | Mfg: Chemicals | Process Refrigeration | Early | motor | 108,641 | 21% | 6.85 | 15 | \$7,214 | 20% | 1.93 |
| PECO | VFD on Cooling Tower Fan | Mfg: Chemicals | Process Refrigeration | New | motor | 108,641 | 22% | 6.85 | 15 | \$7,352 | 20% | 1.92 |
| PECO | VFD on Cooling Tower Fan | Mfg: Chemicals | Process Refrigeration | ROB | motor | 108,641 | 22% | 6.85 | 15 | \$7,352 | 20% | 1.92 |
| PECO | Facility Energy Management | Mfg: Chemicals | Pumps | Existing | end use | 1,202,607 | 12% | 2.88 | 2 | \$463 | 69% | 1.19 |
| PECO | Facility Energy Management | Mfg: Chemicals | Pumps | New | end use | 1,202,607 | 13% | 2.88 | 2 | \$463 | 69% | 1.20 |
| PECO | HE Motors | Mfg: Chemicals | Pumps | Early | end use | 1,202,607 | 2.0% | 3.20 | 15 | \$7,159 | 73% | 1.70 |
| PECO | HE Motors | Mfg: Chemicals | Pumps | New | end use | 1,202,607 | 2.0% | 3.20 | 15 | \$7,159 | 73% | 1.70 |
| PECO | HE Motors | Mfg: Chemicals | Pumps | ROB | end use | 1,202,607 | 2.0% | 3.20 | 15 | \$7,159 | 73% | 1.70 |
| PECO | Motor rewinds | Mfg: Chemicals | Pumps | Existing | end use | 1,202,607 | 1.9% | 0.93 | 9 | \$1,710 | 11% | 2.60 |
| PECO | Motor rewinds | Mfg: Chemicals | Pumps | New | end use | 1,202,607 | 2.1% | 0.93 | 9 | \$1,710 | 11% | 2.72 |
| PECO | Pump Equipment Upgrade | Mfg: Chemicals | Pumps | Early | end use | 1,202,607 | 20% | 31.29 | 12 | \$30,065 | 81% | 2.66 |
| PECO | Pump Equipment Upgrade | Mfg: Chemicals | Pumps | New | end use | 1,202,607 | 20% | 31.29 | 12 | \$30,065 | 81% | 2.66 |
| PECO | Pump Equipment Upgrade | Mfg: Chemicals | Pumps | ROB | end use | 1,202,607 | 20% | 31.29 | 12 | \$30,065 | 81% | 2.66 |
| PECO | Pump System Optimization | Mfg: Chemicals | Pumps | Existing | end use | 1,202,607 | 8.7% | 13.61 | 12 | \$22,019 | 38% | 1.85 |
| PECO | Pump System Optimization | Mfg: Chemicals | Pumps | New | end use | 1,202,607 | 8.7% | 13.61 | 12 | \$22,019 | 38% | 1.85 |
| PECO | Synchronous Belts | Mfg: Chemicals | Pumps | Early | end use | 1,202,607 | 1.2% | 1.82 | 10 | \$1,772 | 61% | 2.28 |
| PECO | Synchronous Belts | Mfg: Chemicals | Pumps | New | end use | 1,202,607 | 1.2% | 1.82 | 10 | \$1,772 | 61% | 2.28 |
| PECO | Synchronous Belts | Mfg: Chemicals | Pumps | ROB | end use | 1,202,607 | 1.2% | 1.82 | 10 | \$1,772 | 61% | 2.28 |
| PECO | Circulating Fans | Mfg: Comp & Elec | Fans | Early | end use | 14,488 | 5.0% | 0.09 | 10 | \$88 | 68% | 2.31 |
| PECO | Circulating Fans | Mfg: Comp & Elec | Fans | New | end use | 14,488 | 5.0% | 0.09 | 10 | \$88 | 68% | 2.31 |
| PECO | Circulating Fans | Mfg: Comp & Elec | Fans | ROB | end use | 14,488 | 5.0% | 0.09 | 10 | \$88 | 68% | 2.31 |
| PECO | Facility Energy Management | Mfg: Comp & Elec | Fans | Existing | end use | 14,488 | 2.2% | 0.03 | 2 | \$5.6 | 77% | 1.09 |
| PECO | Facility Energy Management | Mfg: Comp & Elec | Fans | New | end use | 14,488 | 2.7% | 0.03 | 2 | \$5.6 | 77% | 1.11 |
| PECO | HE Motors | Mfg: Comp & Elec | Fans | Early | end use | 14,488 | 2.0% | 0.04 | 15 | \$86 | 77% | 1.68 |
| PECO | HE Motors | Mfg: Comp & Elec | Fans | New | end use | 14,488 | 2.0% | 0.04 | 15 | \$86 | 77% | 1.68 |
| PECO | HE Motors | Mfg: Comp & Elec | Fans | ROB | end use | 14,488 | 2.0% | 0.04 | 15 | \$86 | 77% | 1.68 |
| PECO | Improved Controls - Fans | Mfg: Comp & Elec | Fans | Existing | end use | 14,488 | 7.1% | 0.12 | 10 | \$56 | 88% | 3.55 |
| PECO | Improved Controls - Fans | Mfg: Comp & Elec | Fans | New | end use | 14,488 | 7.1% | 0.12 | 10 | \$56 | 88% | 3.55 |
| PECO | Properly Sized Fans | Mfg: Comp & Elec | Fans | Early | end use | 14,488 | 13% | 0.23 | 10 | \$297 | 41% | 1.96 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|--|------------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Properly Sized Fans | Mfg: Comp & Elec | Fans | New | end use | 14,488 | 13% | 0.23 | 10 | \$297 | 41% | 1.96 |
| PECO | Properly Sized Fans | Mfg: Comp & Elec | Fans | ROB | end use | 14,488 | 13% | 0.23 | 10 | \$297 | 41% | 1.96 |
| PECO | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 56,380 | 9.2% | 1.34 | 15 | \$10,275 | 28% | 0.34 |
| PECO | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Comp & Elec | HVAC | New | unit (ton) | 56,380 | 4.1% | 0.60 | 15 | \$2,489 | 28% | 0.62 |
| PECO | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 56,380 | 4.1% | 0.60 | 15 | \$2,489 | 28% | 0.62 |
| PECO | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 56,380 | 12% | 1.82 | 15 | \$12,113 | 28% | 0.39 |
| PECO | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Comp & Elec | HVAC | New | unit (ton) | 56,380 | 7.7% | 1.13 | 15 | \$5,243 | 28% | 0.55 |
| PECO | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 56,380 | 7.7% | 1.13 | 15 | \$5,243 | 28% | 0.55 |
| PECO | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 56,380 | 15% | 2.23 | 15 | \$13,951 | 29% | 0.42 |
| PECO | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Comp & Elec | HVAC | New | unit (ton) | 56,380 | 11% | 1.58 | 15 | \$7,997 | 29% | 0.51 |
| PECO | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 56,380 | 11% | 1.58 | 15 | \$7,997 | 29% | 0.51 |
| PECO | >760k min 10.2 EER Air Conditioner | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 56,380 | 2.1% | 0.31 | 15 | \$17,893 | 35% | 0.05 |
| PECO | >760k min 10.2 EER Air Conditioner | Mfg: Comp & Elec | HVAC | New | unit (ton) | 56,380 | 2.8% | 0.41 | 15 | \$1,617 | 35% | 0.65 |
| PECO | >760k min 10.2 EER Air Conditioner | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 56,380 | 2.8% | 0.41 | 15 | \$1,617 | 35% | 0.65 |
| PECO | 135-240k min 12 EER Air Conditioner | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 56,380 | 10% | 1.53 | 15 | \$19,376 | 35% | 0.21 |
| PECO | 135-240k min 12 EER Air Conditioner | Mfg: Comp & Elec | HVAC | New | unit (ton) | 56,380 | 5.8% | 0.84 | 15 | \$2,288 | 35% | 0.91 |
| PECO | 135-240k min 12 EER Air Conditioner | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 56,380 | 5.8% | 0.84 | 15 | \$2,288 | 35% | 0.91 |
| PECO | 240k-760k min 11 EER Air Conditioner | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 56,380 | 5.2% | 0.76 | 15 | \$17,904 | 35% | 0.11 |
| PECO | 240k-760k min 11 EER Air Conditioner | Mfg: Comp & Elec | HVAC | New | unit (ton) | 56,380 | 5.3% | 0.78 | 15 | \$1,918 | 35% | 1.00 |
| PECO | 240k-760k min 11 EER Air Conditioner | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 56,380 | 5.3% | 0.78 | 15 | \$1,918 | 35% | 1.00 |
| PECO | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 56,380 | 9.7% | 1.42 | 15 | \$19,839 | 35% | 0.19 |
| PECO | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Comp & Elec | HVAC | New | unit (ton) | 56,380 | 3.8% | 0.56 | 15 | \$2,831 | 35% | 0.51 |
| PECO | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 56,380 | 3.8% | 0.56 | 15 | \$2,831 | 35% | 0.51 |
| PECO | Ceiling Insualtions (Going upto R 20) | Mfg: Comp & Elec | HVAC | Existing | building | 56,380 | 5.9% | 0.84 | 15 | \$170,823 | 71% | 0.01 |
| PECO | Ceiling Insualtions (Going upto R 20) | Mfg: Comp & Elec | HVAC | New | building | 56,380 | 3.7% | 0.53 | 15 | \$162,372 | 94% | 0.01 |
| PECO | Chiller Tuneup/Diagnostics | Mfg: Comp & Elec | HVAC | Existing | building | 56,380 | 8.0% | 1.65 | 10 | \$143,964 | 59% | 0.02 |
| PECO | Chiller Tuneup/Diagnostics | Mfg: Comp & Elec | HVAC | New | building | 56,380 | 8.0% | 1.66 | 10 | \$143,964 | 59% | 0.02 |
| PECO | Cooling Tower Optimization | Mfg: Comp & Elec | HVAC | Existing | building | 56,380 | 20% | 4.04 | 10 | \$346 | 12% | 5.50 |
| PECO | Duct Insulation, Add R8 | Mfg: Comp & Elec | HVAC | Existing | building | 56,380 | 1.5% | 0.18 | 15 | \$448 | 18% | 1.16 |
| PECO | Duct Insulation, Add R8 | Mfg: Comp & Elec | HVAC | New | building | 56,380 | 1.5% | 0.18 | 15 | \$448 | 9% | 1.16 |
| PECO | Ductless Heat Pump | Mfg: Comp & Elec | HVAC | Early | heat pump | 56,380 | 0.8% | 0.11 | 15 | \$4,457 | 83% | 0.07 |
| PECO | Ductless Heat Pump | Mfg: Comp & Elec | HVAC | New | heat pump | 56,380 | 0.4% | 0.06 | 15 | \$1,294 | 83% | 0.13 |
| PECO | Ductless Heat Pump | Mfg: Comp & Elec | HVAC | ROB | heat pump | 56,380 | 0.4% | 0.06 | 15 | \$1,294 | 83% | 0.13 |
| PECO | DX Coil Cleaning | Mfg: Comp & Elec | HVAC | Existing | building | 56,380 | 13% | 2.59 | 1 | \$540 | 73% | 0.46 |
| PECO | DX Coil Cleaning | Mfg: Comp & Elec | HVAC | New | building | 56,380 | 13% | 2.59 | 1 | \$540 | 73% | 0.46 |
| PECO | Efficient Unit Heating System | Mfg: Comp & Elec | HVAC | Early | heater | 56,380 | 6.9% | 0.03 | 15 | \$3,044 | 83% | 0.67 |
| PECO | Efficient Unit Heating System | Mfg: Comp & Elec | HVAC | New | heater | 56,380 | 4.0% | 0.02 | 15 | \$2,076 | 83% | 0.57 |
| PECO | Efficient Unit Heating System | Mfg: Comp & Elec | HVAC | ROB | heater | 56,380 | 4.0% | 0.02 | 15 | \$2,076 | 83% | 0.57 |
| PECO | Ground Source Heat Pump (Closed Loop) | Mfg: Comp & Elec | HVAC | Early | heat pump | 56,380 | 1.3% | 0.16 | 15 | \$9,255 | 19% | 0.05 |
| PECO | Ground Source Heat Pump (Closed Loop) | Mfg: Comp & Elec | HVAC | New | heat pump | 56,380 | 1.0% | 0.13 | 15 | \$3,654 | 19% | 0.11 |
| PECO | Ground Source Heat Pump (Closed Loop) | Mfg: Comp & Elec | HVAC | ROB | heat pump | 56,380 | 1.0% | 0.13 | 15 | \$3,654 | 19% | 0.11 |
| PECO | Ground Source Heat Pump (Open Loop) | Mfg: Comp & Elec | HVAC | Early | heat pump | 56,380 | 1.3% | 0.16 | 15 | \$5,928 | 19% | 0.08 |
| PECO | Ground Source Heat Pump (Open Loop) | Mfg: Comp & Elec | HVAC | New | heat pump | 56,380 | 1.0% | 0.13 | 15 | \$126 | 19% | 2.37 |
| PECO | Ground Source Heat Pump (Open Loop) | Mfg: Comp & Elec | HVAC | ROB | heat pump | 56,380 | 1.0% | 0.13 | 15 | \$126 | 19% | 2.37 |
| PECO | HE Air Cooled Chiller, 100 Tons | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 56,380 | 1.5% | 0.19 | 15 | \$65,585 | 89% | 0.01 |
| PECO | HE Air Cooled Chiller, 100 Tons | Mfg: Comp & Elec | HVAC | New | unit (ton) | 56,380 | 0.4% | 0.05 | 15 | \$9,555 | 89% | 0.02 |
| PECO | HE Air Cooled Chiller, 100 Tons | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 56,380 | 0.4% | 0.05 | 15 | \$9,555 | 89% | 0.02 |
| PECO | HE Air Cooled Chiller, 150 Tons | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 56,380 | 1.4% | 0.18 | 15 | \$56,651 | 89% | 0.01 |
| PECO | HE Air Cooled Chiller, 150 Tons | Mfg: Comp & Elec | HVAC | New | unit (ton) | 56,380 | 0.3% | 0.04 | 15 | \$4,692 | 89% | 0.02 |
| PECO | HE Air Cooled Chiller, 150 Tons | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 56,380 | 0.3% | 0.04 | 15 | \$4,692 | 89% | 0.02 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---|------------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Comp & Elec | HVAC | Early | heat pump | 56,380 | 1.4% | 0.17 | 12 | \$2,416 | 81% | 0.18 |
| PECO | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Comp & Elec | HVAC | Early | heat pump | 56,380 | 1.1% | 0.14 | 12 | \$1,765 | 81% | 0.20 |
| PECO | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Comp & Elec | HVAC | New | heat pump | 56,380 | 1.0% | 0.13 | 12 | \$1,079 | 81% | 0.30 |
| PECO | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Comp & Elec | HVAC | New | heat pump | 56,380 | 0.8% | 0.10 | 12 | \$377 | 81% | 0.61 |
| PECO | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Comp & Elec | HVAC | ROB | heat pump | 56,380 | 1.0% | 0.13 | 12 | \$1,079 | 81% | 0.30 |
| PECO | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Comp & Elec | HVAC | ROB | heat pump | 56,380 | 0.8% | 0.10 | 12 | \$377 | 81% | 0.61 |
| PECO | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 56,380 | 1.6% | 0.20 | 15 | \$5,204 | 89% | 0.12 |
| PECO | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Comp & Elec | HVAC | New | unit (ton) | 56,380 | 0.9% | 0.12 | 15 | \$1,731 | 89% | 0.20 |
| PECO | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 56,380 | 0.9% | 0.12 | 15 | \$1,731 | 89% | 0.20 |
| PECO | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 56,380 | 1.4% | 0.18 | 15 | \$5,082 | 89% | 0.11 |
| PECO | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Comp & Elec | HVAC | New | unit (ton) | 56,380 | 1.0% | 0.12 | 15 | \$992 | 89% | 0.37 |
| PECO | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 56,380 | 1.4% | 0.18 | 15 | \$912 | 89% | 0.56 |
| PECO | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 56,380 | 1.4% | 0.18 | 15 | \$6,015 | 89% | 0.09 |
| PECO | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Comp & Elec | HVAC | New | unit (ton) | 56,380 | 0.9% | 0.11 | 15 | \$2,533 | 89% | 0.13 |
| PECO | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 56,380 | 1.4% | 0.18 | 15 | \$2,292 | 89% | 0.23 |
| PECO | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 56,380 | 1.4% | 0.18 | 15 | \$5,794 | 89% | 0.09 |
| PECO | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Comp & Elec | HVAC | New | unit (ton) | 56,380 | 0.9% | 0.11 | 15 | \$2,201 | 89% | 0.15 |
| PECO | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 56,380 | 1.4% | 0.18 | 15 | \$1,992 | 89% | 0.26 |
| PECO | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 56,380 | 1.8% | 0.23 | 15 | \$6,243 | 89% | 0.11 |
| PECO | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Comp & Elec | HVAC | New | unit (ton) | 56,380 | 0.5% | 0.07 | 15 | \$3,866 | 89% | 0.05 |
| PECO | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 56,380 | 1.8% | 0.23 | 15 | \$3,002 | 89% | 0.23 |
| PECO | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 56,380 | 2.1% | 0.27 | 15 | \$5,743 | 89% | 0.14 |
| PECO | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Comp & Elec | HVAC | New | unit (ton) | 56,380 | 0.8% | 0.10 | 15 | \$2,304 | 89% | 0.13 |
| PECO | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 56,380 | 0.8% | 0.10 | 15 | \$2,304 | 89% | 0.13 |
| PECO | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 56,380 | 2.4% | 0.31 | 15 | \$4,867 | 89% | 0.19 |
| PECO | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Comp & Elec | HVAC | New | unit (ton) | 56,380 | 0.9% | 0.11 | 15 | \$1,225 | 89% | 0.28 |
| PECO | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 56,380 | 2.4% | 0.31 | 15 | \$873 | 89% | 0.96 |
| PECO | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 56,380 | 1.8% | 0.23 | 15 | \$4,818 | 89% | 0.14 |
| PECO | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Comp & Elec | HVAC | New | unit (ton) | 56,380 | 0.7% | 0.09 | 15 | \$1,349 | 89% | 0.19 |
| PECO | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 56,380 | 1.8% | 0.23 | 15 | \$1,069 | 89% | 0.62 |
| PECO | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Comp & Elec | HVAC | Existing | building | 56,380 | 2.9% | 0.33 | 5 | \$598 | 55% | 0.60 |
| PECO | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Comp & Elec | HVAC | New | building | 56,380 | 0.6% | 0.13 | 5 | \$359 | 51% | 0.28 |
| PECO | Improved Controls - HVAC | Mfg: Comp & Elec | HVAC | Existing | end use | 56,380 | 22% | 1.69 | 10 | \$593 | 76% | 3.67 |
| PECO | Improved Controls - HVAC | Mfg: Comp & Elec | HVAC | New | end use | 56,380 | 21% | 1.69 | 10 | \$593 | 76% | 3.63 |
| PECO | Outside Air Economizer | Mfg: Comp & Elec | HVAC | Existing | building | 56,380 | 1.1% | 0.16 | 10 | \$207,152 | 82% | 0.00 |
| PECO | Outside Air Economizer | Mfg: Comp & Elec | HVAC | New | building | 56,380 | 1.1% | 0.16 | 10 | \$207,152 | 82% | 0.00 |
| PECO | Recommissioning | Mfg: Comp & Elec | HVAC | Existing | end use | 56,380 | 6.0% | 0.40 | 10 | \$77 | 88% | 4.59 |
| PECO | Recommissioning | Mfg: Comp & Elec | HVAC | New | end use | 56,380 | 6.5% | 0.40 | 10 | \$77 | 88% | 4.64 |
| PECO | Room AC (with louvered sides) | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 56,380 | 7.7% | 0.98 | 9 | \$4,421 | 78% | 0.42 |
| PECO | Room AC (with louvered sides) | Mfg: Comp & Elec | HVAC | New | unit (ton) | 56,380 | 2.6% | 0.33 | 9 | \$242 | 78% | 1.94 |
| PECO | Room AC (with louvered sides) | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 56,380 | 2.6% | 0.33 | 9 | \$242 | 78% | 1.94 |
| PECO | Variable Refrigerant Flow Heat Pump | Mfg: Comp & Elec | HVAC | New | measure | 56,380 | 0.1% | 0.01 | 13 | \$415 | 43% | 0.10 |
| PECO | Variable Refrigerant Flow Heat Pump | Mfg: Comp & Elec | HVAC | ROB | measure | 56,380 | 0.1% | 0.01 | 13 | \$415 | 43% | 0.10 |
| PECO | VFD on Cooling Tower Fan | Mfg: Comp & Elec | HVAC | Early | motor | 56,380 | 21% | 3.56 | 15 | \$2,603 | 15% | 2.53 |
| PECO | VFD on Cooling Tower Fan | Mfg: Comp & Elec | HVAC | New | motor | 56,380 | 22% | 3.56 | 15 | \$2,653 | 15% | 2.52 |
| PECO | VFD on Cooling Tower Fan | Mfg: Comp & Elec | HVAC | ROB | motor | 56,380 | 22% | 3.56 | 15 | \$2,653 | 15% | 2.52 |
| PECO | Wall Insualtions (Going upto R 21) | Mfg: Comp & Elec | HVAC | Existing | building | 56,380 | 19% | 2.70 | 15 | \$40,107 | 26% | 0.18 |
| PECO | Wall Insualtions (Going upto R 21) | Mfg: Comp & Elec | HVAC | New | building | 56,380 | 0.6% | 0.09 | 15 | \$30,764 | 94% | 0.01 |
| PECO | Water Source Heat Pump (4 ton) | Mfg: Comp & Elec | HVAC | Early | heat pump | 56,380 | 1.5% | 0.19 | 15 | \$9,584 | 28% | 0.06 |
| PECO | Water Source Heat Pump (4 ton) | Mfg: Comp & Elec | HVAC | New | heat pump | 56,380 | 1.1% | 0.14 | 15 | \$4,671 | 28% | 0.09 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---------------------------------------|------------------|----------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Water Source Heat Pump (4 ton) | Mfg: Comp & Elec | HVAC | ROB | heat pump | 56,380 | 1.1% | 0.14 | 15 | \$4,671 | 28% | 0.09 |
| PECO | Efficient Metal Halide (High Bay) | Mfg: Comp & Elec | Lighting | Early | end use | 23,110 | 42% | 0.00 | 9 | \$3,611 | 53% | 0.83 |
| PECO | Efficient Metal Halide (High Bay) | Mfg: Comp & Elec | Lighting | New | end use | 23,110 | 41% | 0.00 | 13 | \$96,457 | 61% | 0.05 |
| PECO | Efficient Metal Halide (High Bay) | Mfg: Comp & Elec | Lighting | ROB | end use | 23,110 | 41% | 0.00 | 13 | \$73,718 | 61% | 0.06 |
| PECO | Induction (High Bay) | Mfg: Comp & Elec | Lighting | Early | end use | 23,110 | 94% | 0.00 | 13 | \$10,745 | 95% | 0.88 |
| PECO | Induction (High Bay) | Mfg: Comp & Elec | Lighting | New | end use | 23,110 | 94% | 0.00 | 13 | \$10,060 | 95% | 0.94 |
| PECO | Induction (High Bay) | Mfg: Comp & Elec | Lighting | ROB | end use | 23,110 | 94% | 0.00 | 13 | \$7,646 | 95% | 1.18 |
| PECO | LED (High Bay) | Mfg: Comp & Elec | Lighting | Early | end use | 23,110 | 69% | 0.00 | 14 | \$12,648 | 95% | 0.61 |
| PECO | LED (High Bay) | Mfg: Comp & Elec | Lighting | New | end use | 23,110 | 55% | 0.00 | 14 | \$14,039 | 95% | 0.45 |
| PECO | LED (High Bay) | Mfg: Comp & Elec | Lighting | ROB | end use | 23,110 | 59% | 0.00 | 14 | \$9,250 | 95% | 0.70 |
| PECO | Lighting Controls | Mfg: Comp & Elec | Lighting | Existing | end use | 23,110 | 20% | 0.00 | 6 | \$86,637 | 16% | 0.01 |
| PECO | Lighting Controls | Mfg: Comp & Elec | Lighting | New | end use | 23,110 | 12% | 0.00 | 10 | \$115,256 | 11% | 0.01 |
| PECO | Linear Fluorescent (High Bay) | Mfg: Comp & Elec | Lighting | Early | end use | 23,110 | 17% | 0.00 | 14 | \$2,644 | 98% | 0.70 |
| PECO | Linear Fluorescent (High Bay) | Mfg: Comp & Elec | Lighting | New | end use | 23,110 | 13% | 0.00 | 14 | \$839 | 91% | 1.48 |
| PECO | Linear Fluorescent (High Bay) | Mfg: Comp & Elec | Lighting | ROB | end use | 23,110 | 13% | 0.00 | 14 | \$537 | 91% | 2.13 |
| PECO | Metal Halide (High Bay) | Mfg: Comp & Elec | Lighting | Early | end use | 23,110 | 62% | 0.00 | 13 | \$15,887 | 38% | 0.42 |
| PECO | Metal Halide (High Bay) | Mfg: Comp & Elec | Lighting | New | end use | 23,110 | 73% | 0.00 | 13 | \$3,798 | 38% | 1.68 |
| PECO | Metal Halide (High Bay) | Mfg: Comp & Elec | Lighting | ROB | end use | 23,110 | 73% | 0.00 | 13 | \$2,887 | 38% | 2.06 |
| PECO | Screw Base CFL | Mfg: Comp & Elec | Lighting | Early | end use | 23,110 | 80% | 0.00 | 7 | \$6,279 | 17% | 0.69 |
| PECO | Screw Base CFL | Mfg: Comp & Elec | Lighting | New | end use | 23,110 | 73% | 0.00 | 9 | \$5,131 | 18% | 0.97 |
| PECO | Screw Base CFL | Mfg: Comp & Elec | Lighting | ROB | end use | 23,110 | 73% | 0.00 | 9 | \$4,295 | 17% | 1.12 |
| PECO | Screw Base LED | Mfg: Comp & Elec | Lighting | Early | end use | 23,110 | 76% | 0.00 | 9 | \$3,853 | 21% | 1.31 |
| PECO | Screw Base LED | Mfg: Comp & Elec | Lighting | New | end use | 23,110 | 77% | 0.00 | 9 | \$2,146 | 20% | 1.99 |
| PECO | Screw Base LED | Mfg: Comp & Elec | Lighting | ROB | end use | 23,110 | 77% | 0.00 | 9 | \$1,704 | 21% | 2.29 |
| PECO | T8 High Performance Linear Florescent | Mfg: Comp & Elec | Lighting | Early | end use | 23,110 | 36% | 0.00 | 14 | \$2,211 | 71% | 1.57 |
| PECO | T8 High Performance Linear Florescent | Mfg: Comp & Elec | Lighting | New | end use | 23,110 | 26% | 0.00 | 14 | \$791 | 76% | 2.64 |
| PECO | T8 High Performance Linear Florescent | Mfg: Comp & Elec | Lighting | ROB | end use | 23,110 | 26% | 0.00 | 14 | \$601 | 76% | 3.12 |
| PECO | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Comp & Elec | Motors | Early | end use | 4,574 | 0.9% | 0.01 | 15 | \$70 | 81% | 0.38 |
| PECO | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Comp & Elec | Motors | New | end use | 4,574 | 0.9% | 0.01 | 15 | \$70 | 81% | 0.38 |
| PECO | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Comp & Elec | Motors | ROB | end use | 4,574 | 0.9% | 0.01 | 15 | \$70 | 81% | 0.38 |
| PECO | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Comp & Elec | Motors | Early | end use | 4,574 | 0.8% | 0.00 | 15 | \$42 | 73% | 0.50 |
| PECO | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Comp & Elec | Motors | New | end use | 4,574 | 0.8% | 0.00 | 15 | \$42 | 73% | 0.50 |
| PECO | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Comp & Elec | Motors | ROB | end use | 4,574 | 0.8% | 0.00 | 15 | \$42 | 73% | 0.51 |
| PECO | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Comp & Elec | Motors | Early | end use | 4,574 | 0.4% | 0.00 | 15 | \$16 | 81% | 0.75 |
| PECO | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Comp & Elec | Motors | New | end use | 4,574 | 0.5% | 0.00 | 15 | \$16 | 81% | 0.77 |
| PECO | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Comp & Elec | Motors | ROB | end use | 4,574 | 0.5% | 0.00 | 15 | \$16 | 81% | 0.78 |
| PECO | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Comp & Elec | Motors | Early | end use | 4,574 | 0.4% | 0.00 | 15 | \$5.4 | 73% | 1.80 |
| PECO | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Comp & Elec | Motors | New | end use | 4,574 | 0.4% | 0.00 | 15 | \$5.4 | 73% | 1.84 |
| PECO | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Comp & Elec | Motors | ROB | end use | 4,574 | 0.4% | 0.00 | 15 | \$5.4 | 73% | 1.80 |
| PECO | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Comp & Elec | Motors | Early | end use | 4,574 | 0.9% | 0.01 | 15 | \$8.0 | 47% | 2.51 |
| PECO | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Comp & Elec | Motors | New | end use | 4,574 | 0.9% | 0.01 | 15 | \$8.0 | 47% | 2.52 |
| PECO | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Comp & Elec | Motors | ROB | end use | 4,574 | 0.9% | 0.01 | 15 | \$8.0 | 47% | 2.50 |
| PECO | Facility Energy Management | Mfg: Comp & Elec | Motors | Existing | end use | 4,574 | 4.8% | 0.01 | 2 | \$1.8 | 77% | 1.23 |
| PECO | Facility Energy Management | Mfg: Comp & Elec | Motors | New | end use | 4,574 | 4.3% | 0.01 | 2 | \$1.8 | 77% | 1.22 |
| PECO | HE Motors | Mfg: Comp & Elec | Motors | Early | end use | 4,574 | 2.0% | 0.01 | 15 | \$27 | 38% | 1.81 |
| PECO | HE Motors | Mfg: Comp & Elec | Motors | New | end use | 4,574 | 2.0% | 0.01 | 15 | \$27 | 38% | 1.81 |
| PECO | HE Motors | Mfg: Comp & Elec | Motors | ROB | end use | 4,574 | 2.0% | 0.01 | 15 | \$27 | 38% | 1.81 |
| PECO | High-Efficiency Ventilation System | Mfg: Comp & Elec | Motors | Early | end use | 4,574 | 5.7% | 0.04 | 10 | \$286 | 73% | 0.41 |
| PECO | High-Efficiency Ventilation System | Mfg: Comp & Elec | Motors | New | end use | 4,574 | 5.7% | 0.04 | 10 | \$286 | 73% | 0.41 |
| PECO | High-Efficiency Ventilation System | Mfg: Comp & Elec | Motors | ROB | end use | 4,574 | 5.7% | 0.04 | 10 | \$286 | 73% | 0.41 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|--|------------------|------------------------|----------|---------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Improved Controls - Motors | Mfg: Comp & Elec | Motors | Existing | end use | 4,574 | 4.0% | 0.03 | 10 | \$20 | 73% | 2.65 |
| PECO | Improved Controls - Motors | Mfg: Comp & Elec | Motors | New | end use | 4,574 | 4.0% | 0.03 | 10 | \$20 | 73% | 2.65 |
| PECO | Motor Management Plan | Mfg: Comp & Elec | Motors | Existing | end use | 4,574 | 4.1% | 0.02 | 10 | \$9.3 | 73% | 3.83 |
| PECO | Motor Management Plan | Mfg: Comp & Elec | Motors | New | end use | 4,574 | 4.2% | 0.02 | 10 | \$9.3 | 73% | 3.86 |
| PECO | Motors Other | Mfg: Comp & Elec | Motors | Existing | end use | 4,574 | 1.1% | 0.01 | 15 | \$0.9 | 83% | 7.39 |
| PECO | Motors Other | Mfg: Comp & Elec | Motors | New | end use | 4,574 | 1.1% | 0.01 | 15 | \$0.9 | 83% | 7.39 |
| PECO | Motors: Rewind 101-200 HP | Mfg: Comp & Elec | Motors | Existing | end use | 4,574 | 1.6% | 0.00 | 10 | \$5.8 | 27% | 2.90 |
| PECO | Motors: Rewind 101-200 HP | Mfg: Comp & Elec | Motors | New | end use | 4,574 | 1.4% | 0.00 | 10 | \$5.8 | 27% | 2.71 |
| PECO | Motors: Rewind 201-500 HP | Mfg: Comp & Elec | Motors | Existing | end use | 4,574 | 1.2% | 0.00 | 8 | \$3.6 | 27% | 2.74 |
| PECO | Motors: Rewind 201-500 HP | Mfg: Comp & Elec | Motors | New | end use | 4,574 | 1.0% | 0.00 | 8 | \$3.6 | 27% | 2.54 |
| PECO | Motors: Rewind 20-50 HP | Mfg: Comp & Elec | Motors | Existing | end use | 4,574 | 1.4% | 0.01 | 11 | \$17 | 42% | 1.54 |
| PECO | Motors: Rewind 20-50 HP | Mfg: Comp & Elec | Motors | New | end use | 4,574 | 2.5% | 0.01 | 11 | \$17 | 42% | 2.24 |
| PECO | Motors: Rewind 500+ HP | Mfg: Comp & Elec | Motors | Existing | end use | 4,574 | 0.7% | 0.00 | 8 | \$2.6 | 11% | 2.47 |
| PECO | Motors: Rewind 500+ HP | Mfg: Comp & Elec | Motors | New | end use | 4,574 | 0.8% | 0.00 | 8 | \$2.6 | 11% | 2.62 |
| PECO | Motors: Rewind 51-100 HP | Mfg: Comp & Elec | Motors | Existing | end use | 4,574 | 1.2% | 0.00 | 9 | \$8.4 | 42% | 1.84 |
| PECO | Motors: Rewind 51-100 HP | Mfg: Comp & Elec | Motors | New | end use | 4,574 | 1.8% | 0.00 | 9 | \$8.4 | 42% | 2.34 |
| PECO | Switch from Belt drive to Direct Drive | Mfg: Comp & Elec | Motors | Early | end use | 4,574 | 7.5% | 0.05 | 12 | \$73 | 30% | 1.95 |
| PECO | Switch from Belt drive to Direct Drive | Mfg: Comp & Elec | Motors | New | end use | 4,574 | 7.5% | 0.05 | 12 | \$73 | 30% | 1.95 |
| PECO | Switch from Belt drive to Direct Drive | Mfg: Comp & Elec | Motors | ROB | end use | 4,574 | 7.5% | 0.05 | 12 | \$73 | 30% | 1.95 |
| PECO | Bldg Improvements | Mfg: Comp & Elec | Other | Existing | end use | 13,351 | 16% | 0.26 | 15 | \$291 | 72% | 3.13 |
| PECO | Bldg Improvements | Mfg: Comp & Elec | Other | New | end use | 13,351 | 16% | 0.26 | 15 | \$291 | 72% | 3.13 |
| PECO | Energy Project Management | Mfg: Comp & Elec | Other | Existing | end use | 13,351 | 29% | 0.46 | 11 | \$477 | 63% | 2.63 |
| PECO | Energy Project Management | Mfg: Comp & Elec | Other | New | end use | 13,351 | 29% | 0.46 | 11 | \$477 | 63% | 2.61 |
| PECO | Facility Energy Management | Mfg: Comp & Elec | Other | Existing | end use | 13,351 | 6.1% | 0.03 | 2 | \$5.1 | 76% | 1.23 |
| PECO | Facility Energy Management | Mfg: Comp & Elec | Other | New | end use | 13,351 | 5.2% | 0.03 | 2 | \$5.1 | 76% | 1.22 |
| PECO | Integrated Plant Energy Management | Mfg: Comp & Elec | Other | Existing | end use | 13,351 | 51% | 0.79 | 11 | \$1,316 | 48% | 1.92 |
| PECO | Integrated Plant Energy Management | Mfg: Comp & Elec | Other | New | end use | 13,351 | 51% | 0.79 | 11 | \$1,316 | 48% | 1.90 |
| PECO | Plant Energy Management | Mfg: Comp & Elec | Other | Existing | end use | 13,351 | 13% | 0.19 | 10 | \$34 | 55% | 5.16 |
| PECO | Plant Energy Management | Mfg: Comp & Elec | Other | New | end use | 13,351 | 12% | 0.19 | 10 | \$34 | 55% | 5.13 |
| PECO | Transformers | Mfg: Comp & Elec | Other | Early | end use | 13,351 | 1.6% | 0.03 | 30 | \$43 | 34% | 3.56 |
| PECO | Transformers | Mfg: Comp & Elec | Other | New | end use | 13,351 | 1.6% | 0.03 | 30 | \$43 | 34% | 3.57 |
| PECO | Transformers | Mfg: Comp & Elec | Other | ROB | end use | 13,351 | 1.6% | 0.03 | 30 | \$43 | 34% | 3.57 |
| PECO | Air Compressor Demand Reduction | Mfg: Comp & Elec | Process Air Compressor | Existing | end use | 898 | 26% | 0.03 | 10 | \$13 | 52% | 3.67 |
| PECO | Air Compressor Demand Reduction | Mfg: Comp & Elec | Process Air Compressor | New | end use | 898 | 26% | 0.03 | 10 | \$13 | 52% | 3.67 |
| PECO | Facility Energy Management | Mfg: Comp & Elec | Process Air Compressor | Existing | end use | 898 | 7.7% | 0.00 | 2 | \$0.3 | 66% | 1.25 |
| PECO | Facility Energy Management | Mfg: Comp & Elec | Process Air Compressor | New | end use | 898 | 6.8% | 0.00 | 2 | \$0.3 | 66% | 1.24 |
| PECO | HE Compressor motors | Mfg: Comp & Elec | Process Air Compressor | Early | end use | 898 | 1.1% | 0.00 | 15 | \$3.4 | 73% | 1.50 |
| PECO | HE Compressor motors | Mfg: Comp & Elec | Process Air Compressor | New | end use | 898 | 1.1% | 0.00 | 15 | \$3.4 | 73% | 1.49 |
| PECO | HE Compressor motors | Mfg: Comp & Elec | Process Air Compressor | ROB | end use | 898 | 1.1% | 0.00 | 15 | \$3.4 | 73% | 1.49 |
| PECO | Improved Controls - Air Compressor | Mfg: Comp & Elec | Process Air Compressor | Existing | end use | 898 | 41% | 0.05 | 10 | \$16 | 25% | 4.13 |
| PECO | Improved Controls - Air Compressor | Mfg: Comp & Elec | Process Air Compressor | New | end use | 898 | 41% | 0.05 | 10 | \$16 | 25% | 4.13 |
| PECO | Low Pressure-drop Filters | Mfg: Comp & Elec | Process Air Compressor | Existing | end use | 898 | 3.0% | 0.00 | 10 | \$10 | 61% | 1.02 |
| PECO | Low Pressure-drop Filters | Mfg: Comp & Elec | Process Air Compressor | New | end use | 898 | 2.6% | 0.00 | 10 | \$10 | 61% | 0.91 |
| PECO | Outside Air Intake | Mfg: Comp & Elec | Process Air Compressor | Existing | end use | 898 | 2.0% | 0.00 | 10 | \$5.9 | 48% | 1.16 |
| PECO | Outside Air Intake | Mfg: Comp & Elec | Process Air Compressor | New | end use | 898 | 2.4% | 0.00 | 10 | \$5.9 | 48% | 1.32 |
| PECO | Receiver Capacity Addition | Mfg: Comp & Elec | Process Air Compressor | Existing | end use | 898 | 6.1% | 0.01 | 10 | \$17 | 36% | 1.26 |
| PECO | Receiver Capacity Addition | Mfg: Comp & Elec | Process Air Compressor | New | end use | 898 | 6.4% | 0.01 | 10 | \$17 | 36% | 1.30 |
| PECO | Refrigerated Cycling Dryers | Mfg: Comp & Elec | Process Air Compressor | Early | end use | 898 | 1.7% | 0.00 | 10 | \$2.1 | 21% | 2.14 |
| PECO | Refrigerated Cycling Dryers | Mfg: Comp & Elec | Process Air Compressor | New | end use | 898 | 1.7% | 0.00 | 10 | \$2.1 | 21% | 2.16 |
| PECO | Refrigerated Cycling Dryers | Mfg: Comp & Elec | Process Air Compressor | ROB | end use | 898 | 1.7% | 0.00 | 10 | \$2.1 | 21% | 2.15 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---------------------------------------|------------------|------------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | VFD Controlled Compressor | Mfg: Comp & Elec | Process Air Compressor | Early | end use | 898 | 24% | 0.03 | 10 | \$88 | 28% | 0.92 |
| PECO | VFD Controlled Compressor | Mfg: Comp & Elec | Process Air Compressor | New | end use | 898 | 24% | 0.03 | 10 | \$88 | 28% | 0.92 |
| PECO | VFD Controlled Compressor | Mfg: Comp & Elec | Process Air Compressor | ROB | end use | 898 | 24% | 0.03 | 10 | \$88 | 28% | 0.92 |
| PECO | Zero Loss Condensate Drain | Mfg: Comp & Elec | Process Air Compressor | Early | end use | 898 | 1.8% | 0.00 | 10 | \$5.1 | 36% | 1.17 |
| PECO | Zero Loss Condensate Drain | Mfg: Comp & Elec | Process Air Compressor | New | end use | 898 | 1.8% | 0.00 | 10 | \$5.1 | 36% | 1.17 |
| PECO | Zero Loss Condensate Drain | Mfg: Comp & Elec | Process Air Compressor | ROB | end use | 898 | 1.8% | 0.00 | 10 | \$5.1 | 36% | 1.17 |
| PECO | Clean Room: Change Filter Strategy | Mfg: Comp & Elec | Process Cooling | Existing | end use | 9,324 | 41% | 0.78 | 1 | \$24 | 13% | 0.78 |
| PECO | Clean Room: Change Filter Strategy | Mfg: Comp & Elec | Process Cooling | New | end use | 9,324 | 40% | 0.78 | 1 | \$24 | 13% | 0.78 |
| PECO | Clean Room: Chiller Optimize | Mfg: Comp & Elec | Process Cooling | Existing | end use | 9,324 | 15% | 0.29 | 10 | \$113 | 21% | 3.36 |
| PECO | Clean Room: Chiller Optimize | Mfg: Comp & Elec | Process Cooling | New | end use | 9,324 | 15% | 0.29 | 10 | \$113 | 21% | 3.33 |
| PECO | Clean Room: Clean Room HVAC | Mfg: Comp & Elec | Process Cooling | Existing | end use | 9,324 | 9.5% | 0.17 | 20 | \$136 | 31% | 3.69 |
| PECO | Clean Room: Clean Room HVAC | Mfg: Comp & Elec | Process Cooling | New | end use | 9,324 | 9.0% | 0.17 | 20 | \$136 | 31% | 3.58 |
| PECO | Cooling Tower Optimization | Mfg: Comp & Elec | Process Cooling | Existing | building | 9,324 | 20% | 0.67 | 10 | \$57 | 15% | 5.57 |
| PECO | Elec Chip Fab: Solidstate Chiller | Mfg: Comp & Elec | Process Cooling | Early | end use | 9,324 | 90% | 1.75 | 10 | \$4,267 | 42% | 0.83 |
| PECO | Elec Chip Fab: Solidstate Chiller | Mfg: Comp & Elec | Process Cooling | New | end use | 9,324 | 90% | 1.75 | 10 | \$4,267 | 42% | 0.83 |
| PECO | Elec Chip Fab: Solidstate Chiller | Mfg: Comp & Elec | Process Cooling | ROB | end use | 9,324 | 90% | 1.75 | 10 | \$4,267 | 42% | 0.83 |
| PECO | Equipment: Chillers | Mfg: Comp & Elec | Process Cooling | Early | end use | 9,324 | 18% | 0.35 | 20 | \$438 | 39% | 2.37 |
| PECO | Equipment: Chillers | Mfg: Comp & Elec | Process Cooling | New | end use | 9,324 | 18% | 0.35 | 20 | \$438 | 39% | 2.37 |
| PECO | Equipment: Chillers | Mfg: Comp & Elec | Process Cooling | ROB | end use | 9,324 | 18% | 0.35 | 20 | \$438 | 39% | 2.37 |
| PECO | Facility Energy Management | Mfg: Comp & Elec | Process Cooling | Existing | end use | 9,324 | 8.6% | 0.04 | 2 | \$3.6 | 50% | 1.27 |
| PECO | Facility Energy Management | Mfg: Comp & Elec | Process Cooling | New | end use | 9,324 | 8.3% | 0.04 | 2 | \$3.6 | 50% | 1.27 |
| PECO | Improved Controls - Process Cooling | Mfg: Comp & Elec | Process Cooling | Existing | end use | 9,324 | 7.5% | 0.12 | 10 | \$492 | 47% | 0.63 |
| PECO | Improved Controls - Process Cooling | Mfg: Comp & Elec | Process Cooling | New | end use | 9,324 | 7.2% | 0.12 | 10 | \$492 | 47% | 0.61 |
| PECO | VFD on Cooling Tower Fan | Mfg: Comp & Elec | Process Cooling | Early | motor | 9,324 | 21% | 0.59 | 15 | \$619 | 20% | 1.93 |
| PECO | VFD on Cooling Tower Fan | Mfg: Comp & Elec | Process Cooling | New | motor | 9,324 | 22% | 0.59 | 15 | \$631 | 20% | 1.92 |
| PECO | VFD on Cooling Tower Fan | Mfg: Comp & Elec | Process Cooling | ROB | motor | 9,324 | 22% | 0.59 | 15 | \$631 | 20% | 1.92 |
| PECO | Improved Controls - Process Heating | Mfg: Comp & Elec | Process Heating | Existing | end use | 23,679 | 17% | 0.56 | 10 | \$272 | 77% | 3.46 |
| PECO | Improved Controls - Process Heating | Mfg: Comp & Elec | Process Heating | New | end use | 23,679 | 17% | 0.56 | 10 | \$272 | 77% | 3.46 |
| PECO | Process Heat O&M | Mfg: Comp & Elec | Process Heating | Existing | end use | 23,679 | 16% | 0.53 | 2 | \$164 | 77% | 0.92 |
| PECO | Process Heat O&M | Mfg: Comp & Elec | Process Heating | New | end use | 23,679 | 16% | 0.53 | 2 | \$164 | 77% | 0.92 |
| PECO | Elec Chip Fab: Eliminate Exhaust | Mfg: Comp & Elec | Process Other | Existing | end use | 8,754 | 6.6% | 0.06 | 10 | \$82 | 68% | 2.18 |
| PECO | Elec Chip Fab: Eliminate Exhaust | Mfg: Comp & Elec | Process Other | New | end use | 8,754 | 6.7% | 0.06 | 10 | \$82 | 68% | 2.20 |
| PECO | Elec Chip Fab: Exhaust Injector | Mfg: Comp & Elec | Process Other | Existing | end use | 8,754 | 100% | 1.23 | 10 | \$3,942 | 68% | 0.91 |
| PECO | Elec Chip Fab: Exhaust Injector | Mfg: Comp & Elec | Process Other | New | end use | 8,754 | 100% | 1.23 | 10 | \$3,942 | 68% | 0.92 |
| PECO | Elec Chip Fab: Reduce Gas Pressure | Mfg: Comp & Elec | Process Other | Existing | end use | 8,754 | 10.0% | 0.12 | 10 | \$0.0 | 68% | 6.77 |
| PECO | Elec Chip Fab: Reduce Gas Pressure | Mfg: Comp & Elec | Process Other | New | end use | 8,754 | 10% | 0.12 | 10 | \$0.0 | 68% | 6.76 |
| PECO | Facility Energy Management | Mfg: Comp & Elec | Process Other | Existing | end use | 8,754 | 9.9% | 0.02 | 2 | \$3.4 | 77% | 1.26 |
| PECO | Facility Energy Management | Mfg: Comp & Elec | Process Other | New | end use | 8,754 | 10% | 0.02 | 2 | \$3.4 | 77% | 1.26 |
| PECO | Adjustable speed drive on compressors | Mfg: Comp & Elec | Process Refrigeration | Early | end use | 4,790 | 12% | 0.08 | 10 | \$89 | 30% | 1.92 |
| PECO | Adjustable speed drive on compressors | Mfg: Comp & Elec | Process Refrigeration | New | end use | 4,790 | 12% | 0.08 | 10 | \$89 | 30% | 1.92 |
| PECO | Adjustable speed drive on compressors | Mfg: Comp & Elec | Process Refrigeration | ROB | end use | 4,790 | 12% | 0.08 | 10 | \$89 | 30% | 1.92 |
| PECO | Cooling Tower Optimization | Mfg: Comp & Elec | Process Refrigeration | Existing | building | 4,790 | 20% | 0.34 | 10 | \$29 | 15% | 5.57 |
| PECO | Optimization of operating parameters | Mfg: Comp & Elec | Process Refrigeration | Existing | end use | 4,790 | 14% | 0.09 | 3 | \$39 | 27% | 1.12 |
| PECO | Optimization of operating parameters | Mfg: Comp & Elec | Process Refrigeration | New | end use | 4,790 | 14% | 0.09 | 3 | \$39 | 27% | 1.10 |
| PECO | VFD on Cooling Tower Fan | Mfg: Comp & Elec | Process Refrigeration | Early | motor | 4,790 | 21% | 0.30 | 15 | \$318 | 20% | 1.93 |
| PECO | VFD on Cooling Tower Fan | Mfg: Comp & Elec | Process Refrigeration | New | motor | 4,790 | 22% | 0.30 | 15 | \$324 | 20% | 1.92 |
| PECO | VFD on Cooling Tower Fan | Mfg: Comp & Elec | Process Refrigeration | ROB | motor | 4,790 | 22% | 0.30 | 15 | \$324 | 20% | 1.92 |
| PECO | Facility Energy Management | Mfg: Comp & Elec | Pumps | Existing | end use | 25,641 | 13% | 0.06 | 2 | \$9.9 | 73% | 1.20 |
| PECO | Facility Energy Management | Mfg: Comp & Elec | Pumps | New | end use | 25,641 | 12% | 0.06 | 2 | \$9.9 | 73% | 1.20 |
| PECO | HE Motors | Mfg: Comp & Elec | Pumps | Early | end use | 25,641 | 2.0% | 0.07 | 15 | \$153 | 77% | 1.70 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|--|------------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | HE Motors | Mfg: Comp & Elec | Pumps | New | end use | 25,641 | 2.0% | 0.07 | 15 | \$153 | 77% | 1.70 |
| PECO | HE Motors | Mfg: Comp & Elec | Pumps | ROB | end use | 25,641 | 2.0% | 0.07 | 15 | \$153 | 77% | 1.70 |
| PECO | Motor rewinds | Mfg: Comp & Elec | Pumps | Existing | end use | 25,641 | 2.0% | 0.02 | 9 | \$36 | 12% | 2.66 |
| PECO | Motor rewinds | Mfg: Comp & Elec | Pumps | New | end use | 25,641 | 1.2% | 0.02 | 9 | \$36 | 12% | 2.04 |
| PECO | Circulating Fans | Mfg: Food | Fans | Early | end use | 154,678 | 5.0% | 0.92 | 10 | \$942 | 68% | 2.31 |
| PECO | Circulating Fans | Mfg: Food | Fans | New | end use | 154,678 | 5.0% | 0.92 | 10 | \$942 | 68% | 2.31 |
| PECO | Circulating Fans | Mfg: Food | Fans | ROB | end use | 154,678 | 5.0% | 0.92 | 10 | \$942 | 68% | 2.31 |
| PECO | Facility Energy Management | Mfg: Food | Fans | Existing | end use | 154,678 | 1.8% | 0.34 | 2 | \$60 | 77% | 1.07 |
| PECO | Facility Energy Management | Mfg: Food | Fans | New | end use | 154,678 | 2.1% | 0.34 | 2 | \$60 | 77% | 1.09 |
| PECO | Fan System Optimization | Mfg: Food | Fans | Existing | end use | 154,678 | 7.7% | 1.29 | 10 | \$1,812 | 83% | 1.97 |
| PECO | Fan System Optimization | Mfg: Food | Fans | New | end use | 154,678 | 7.4% | 1.29 | 10 | \$1,812 | 83% | 1.93 |
| PECO | HE Motors | Mfg: Food | Fans | Early | end use | 154,678 | 2.0% | 0.38 | 15 | \$921 | 77% | 1.68 |
| PECO | HE Motors | Mfg: Food | Fans | New | end use | 154,678 | 2.0% | 0.38 | 15 | \$921 | 77% | 1.68 |
| PECO | HE Motors | Mfg: Food | Fans | ROB | end use | 154,678 | 2.0% | 0.38 | 15 | \$921 | 77% | 1.68 |
| PECO | Improved Controls - Fans | Mfg: Food | Fans | Existing | end use | 154,678 | 7.1% | 1.31 | 10 | \$600 | 60% | 3.55 |
| PECO | Improved Controls - Fans | Mfg: Food | Fans | New | end use | 154,678 | 7.1% | 1.31 | 10 | \$600 | 60% | 3.55 |
| PECO | Properly Sized Fans | Mfg: Food | Fans | Early | end use | 154,678 | 13% | 2.42 | 10 | \$3,168 | 41% | 1.96 |
| PECO | Properly Sized Fans | Mfg: Food | Fans | New | end use | 154,678 | 13% | 2.42 | 10 | \$3,168 | 41% | 1.96 |
| PECO | Properly Sized Fans | Mfg: Food | Fans | ROB | end use | 154,678 | 13% | 2.42 | 10 | \$3,168 | 41% | 1.96 |
| PECO | Synchronous Belts | Mfg: Food | Fans | Early | end use | 154,678 | 1.2% | 0.21 | 10 | \$228 | 41% | 2.25 |
| PECO | Synchronous Belts | Mfg: Food | Fans | New | end use | 154,678 | 1.2% | 0.21 | 10 | \$228 | 41% | 2.25 |
| PECO | Synchronous Belts | Mfg: Food | Fans | ROB | end use | 154,678 | 1.2% | 0.21 | 10 | \$228 | 41% | 2.25 |
| PECO | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Food | HVAC | Early | unit (ton) | 96,009 | 9.2% | 2.29 | 15 | \$17,497 | 28% | 0.34 |
| PECO | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Food | HVAC | New | unit (ton) | 96,009 | 4.1% | 1.03 | 15 | \$4,239 | 28% | 0.62 |
| PECO | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Food | HVAC | ROB | unit (ton) | 96,009 | 4.1% | 1.03 | 15 | \$4,239 | 28% | 0.62 |
| PECO | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Food | HVAC | Early | unit (ton) | 96,009 | 12% | 3.09 | 15 | \$20,627 | 28% | 0.39 |
| PECO | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Food | HVAC | New | unit (ton) | 96,009 | 7.7% | 1.92 | 15 | \$8,929 | 28% | 0.55 |
| PECO | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Food | HVAC | ROB | unit (ton) | 96,009 | 7.7% | 1.92 | 15 | \$8,929 | 28% | 0.55 |
| PECO | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Food | HVAC | Early | unit (ton) | 96,009 | 15% | 3.80 | 15 | \$23,757 | 29% | 0.42 |
| PECO | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Food | HVAC | New | unit (ton) | 96,009 | 11% | 2.69 | 15 | \$13,618 | 29% | 0.51 |
| PECO | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Food | HVAC | ROB | unit (ton) | 96,009 | 11% | 2.69 | 15 | \$13,618 | 29% | 0.51 |
| PECO | >760k min 10.2 EER Air Conditioner | Mfg: Food | HVAC | Early | unit (ton) | 96,009 | 2.1% | 0.53 | 15 | \$30,470 | 35% | 0.05 |
| PECO | >760k min 10.2 EER Air Conditioner | Mfg: Food | HVAC | New | unit (ton) | 96,009 | 2.8% | 0.70 | 15 | \$2,754 | 35% | 0.65 |
| PECO | >760k min 10.2 EER Air Conditioner | Mfg: Food | HVAC | ROB | unit (ton) | 96,009 | 2.8% | 0.70 | 15 | \$2,754 | 35% | 0.65 |
| PECO | 135-240k min 12 EER Air Conditioner | Mfg: Food | HVAC | Early | unit (ton) | 96,009 | 10% | 2.61 | 15 | \$32,994 | 35% | 0.21 |
| PECO | 135-240k min 12 EER Air Conditioner | Mfg: Food | HVAC | New | unit (ton) | 96,009 | 5.8% | 1.44 | 15 | \$3,896 | 35% | 0.91 |
| PECO | 135-240k min 12 EER Air Conditioner | Mfg: Food | HVAC | ROB | unit (ton) | 96,009 | 5.8% | 1.44 | 15 | \$3,896 | 35% | 0.91 |
| PECO | 240k-760k min 11 EER Air Conditioner | Mfg: Food | HVAC | Early | unit (ton) | 96,009 | 5.2% | 1.30 | 15 | \$30,489 | 35% | 0.11 |
| PECO | 240k-760k min 11 EER Air Conditioner | Mfg: Food | HVAC | New | unit (ton) | 96,009 | 5.3% | 1.33 | 15 | \$3,266 | 35% | 1.00 |
| PECO | 240k-760k min 11 EER Air Conditioner | Mfg: Food | HVAC | ROB | unit (ton) | 96,009 | 5.3% | 1.33 | 15 | \$3,266 | 35% | 1.00 |
| PECO | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Food | HVAC | Early | unit (ton) | 96,009 | 9.7% | 2.42 | 15 | \$33,783 | 35% | 0.19 |
| PECO | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Food | HVAC | New | unit (ton) | 96,009 | 3.8% | 0.96 | 15 | \$4,820 | 35% | 0.51 |
| PECO | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Food | HVAC | ROB | unit (ton) | 96,009 | 3.8% | 0.96 | 15 | \$4,820 | 35% | 0.51 |
| PECO | Ceiling Insualtions (Going upto R 20) | Mfg: Food | HVAC | Existing | building | 96,009 | 5.9% | 1.43 | 15 | \$290,893 | 71% | 0.01 |
| PECO | Ceiling Insualtions (Going upto R 20) | Mfg: Food | HVAC | New | building | 96,009 | 3.7% | 0.89 | 15 | \$276,502 | 94% | 0.01 |
| PECO | Chiller Tuneup/Diagnostics | Mfg: Food | HVAC | Existing | building | 96,009 | 8.0% | 2.82 | 10 | \$245,155 | 59% | 0.02 |
| PECO | Chiller Tuneup/Diagnostics | Mfg: Food | HVAC | New | building | 96,009 | 8.0% | 2.82 | 10 | \$245,155 | 59% | 0.02 |
| PECO | Cooling Tower Optimization | Mfg: Food | HVAC | Existing | building | 96,009 | 20% | 6.87 | 10 | \$589 | 12% | 5.50 |
| PECO | Duct Insulation, Add R8 | Mfg: Food | HVAC | Existing | building | 96,009 | 1.5% | 0.31 | 15 | \$763 | 18% | 1.16 |
| PECO | Duct Insulation, Add R8 | Mfg: Food | HVAC | New | building | 96,009 | 1.5% | 0.31 | 15 | \$763 | 9% | 1.16 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---|-----------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Ductless Heat Pump | Mfg: Food | HVAC | Early | heat pump | 96,009 | 0.8% | 0.18 | 15 | \$7,590 | 83% | 0.07 |
| PECO | Ductless Heat Pump | Mfg: Food | HVAC | New | heat pump | 96,009 | 0.4% | 0.09 | 15 | \$2,204 | 83% | 0.13 |
| PECO | Ductless Heat Pump | Mfg: Food | HVAC | ROB | heat pump | 96,009 | 0.4% | 0.09 | 15 | \$2,204 | 83% | 0.13 |
| PECO | DX Coil Cleaning | Mfg: Food | HVAC | Existing | building | 96,009 | 13% | 4.40 | 1 | \$920 | 73% | 0.46 |
| PECO | DX Coil Cleaning | Mfg: Food | HVAC | New | building | 96,009 | 13% | 4.40 | 1 | \$920 | 73% | 0.46 |
| PECO | Efficient Unit Heating System | Mfg: Food | HVAC | Early | heater | 96,009 | 6.9% | 0.06 | 15 | \$5,183 | 83% | 0.67 |
| PECO | Efficient Unit Heating System | Mfg: Food | HVAC | New | heater | 96,009 | 4.0% | 0.03 | 15 | \$3,535 | 83% | 0.57 |
| PECO | Efficient Unit Heating System | Mfg: Food | HVAC | ROB | heater | 96,009 | 4.0% | 0.03 | 15 | \$3,535 | 83% | 0.57 |
| PECO | Ground Source Heat Pump (Closed Loop) | Mfg: Food | HVAC | Early | heat pump | 96,009 | 1.3% | 0.28 | 15 | \$15,761 | 19% | 0.05 |
| PECO | Ground Source Heat Pump (Closed Loop) | Mfg: Food | HVAC | New | heat pump | 96,009 | 1.0% | 0.22 | 15 | \$6,223 | 19% | 0.11 |
| PECO | Ground Source Heat Pump (Closed Loop) | Mfg: Food | HVAC | ROB | heat pump | 96,009 | 1.0% | 0.22 | 15 | \$6,223 | 19% | 0.11 |
| PECO | Ground Source Heat Pump (Open Loop) | Mfg: Food | HVAC | Early | heat pump | 96,009 | 1.3% | 0.28 | 15 | \$10,094 | 19% | 0.08 |
| PECO | Ground Source Heat Pump (Open Loop) | Mfg: Food | HVAC | New | heat pump | 96,009 | 1.0% | 0.22 | 15 | \$214 | 19% | 2.37 |
| PECO | Ground Source Heat Pump (Open Loop) | Mfg: Food | HVAC | ROB | heat pump | 96,009 | 1.0% | 0.22 | 15 | \$214 | 19% | 2.37 |
| PECO | HE Air Cooled Chiller, 100 Tons | Mfg: Food | HVAC | Early | unit (ton) | 96,009 | 1.5% | 0.32 | 15 | \$111,684 | 89% | 0.01 |
| PECO | HE Air Cooled Chiller, 100 Tons | Mfg: Food | HVAC | New | unit (ton) | 96,009 | 0.4% | 0.09 | 15 | \$16,270 | 89% | 0.02 |
| PECO | HE Air Cooled Chiller, 100 Tons | Mfg: Food | HVAC | ROB | unit (ton) | 96,009 | 0.4% | 0.09 | 15 | \$16,270 | 89% | 0.02 |
| PECO | HE Air Cooled Chiller, 150 Tons | Mfg: Food | HVAC | Early | unit (ton) | 96,009 | 1.4% | 0.31 | 15 | \$96,470 | 89% | 0.01 |
| PECO | HE Air Cooled Chiller, 150 Tons | Mfg: Food | HVAC | New | unit (ton) | 96,009 | 0.3% | 0.06 | 15 | \$7,990 | 89% | 0.02 |
| PECO | HE Air Cooled Chiller, 150 Tons | Mfg: Food | HVAC | ROB | unit (ton) | 96,009 | 0.3% | 0.06 | 15 | \$7,990 | 89% | 0.02 |
| PECO | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Food | HVAC | Early | heat pump | 96,009 | 1.4% | 0.29 | 12 | \$4,114 | 81% | 0.18 |
| PECO | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Food | HVAC | Early | heat pump | 96,009 | 1.1% | 0.24 | 12 | \$3,006 | 81% | 0.20 |
| PECO | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Food | HVAC | New | heat pump | 96,009 | 1.0% | 0.22 | 12 | \$1,837 | 81% | 0.30 |
| PECO | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Food | HVAC | New | heat pump | 96,009 | 0.8% | 0.16 | 12 | \$642 | 81% | 0.61 |
| PECO | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Food | HVAC | ROB | heat pump | 96,009 | 1.0% | 0.22 | 12 | \$1,837 | 81% | 0.30 |
| PECO | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Food | HVAC | ROB | heat pump | 96,009 | 0.8% | 0.16 | 12 | \$642 | 81% | 0.61 |
| PECO | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Food | HVAC | Early | unit (ton) | 96,009 | 1.6% | 0.34 | 15 | \$8,862 | 89% | 0.12 |
| PECO | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Food | HVAC | New | unit (ton) | 96,009 | 0.9% | 0.20 | 15 | \$2,947 | 89% | 0.20 |
| PECO | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Food | HVAC | ROB | unit (ton) | 96,009 | 0.9% | 0.20 | 15 | \$2,947 | 89% | 0.20 |
| PECO | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Food | HVAC | Early | unit (ton) | 96,009 | 1.4% | 0.30 | 15 | \$8,655 | 89% | 0.11 |
| PECO | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Food | HVAC | New | unit (ton) | 96,009 | 1.0% | 0.21 | 15 | \$1,690 | 89% | 0.37 |
| PECO | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Food | HVAC | ROB | unit (ton) | 96,009 | 1.4% | 0.30 | 15 | \$1,553 | 89% | 0.56 |
| PECO | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Food | HVAC | Early | unit (ton) | 96,009 | 1.4% | 0.30 | 15 | \$10,243 | 89% | 0.09 |
| PECO | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Food | HVAC | New | unit (ton) | 96,009 | 0.9% | 0.19 | 15 | \$4,313 | 89% | 0.13 |
| PECO | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Food | HVAC | ROB | unit (ton) | 96,009 | 1.4% | 0.30 | 15 | \$3,903 | 89% | 0.23 |
| PECO | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Food | HVAC | Early | unit (ton) | 96,009 | 1.4% | 0.30 | 15 | \$9,867 | 89% | 0.09 |
| PECO | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Food | HVAC | New | unit (ton) | 96,009 | 0.9% | 0.19 | 15 | \$3,749 | 89% | 0.15 |
| PECO | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Food | HVAC | ROB | unit (ton) | 96,009 | 1.4% | 0.30 | 15 | \$3,393 | 89% | 0.26 |
| PECO | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Food | HVAC | Early | unit (ton) | 96,009 | 1.8% | 0.39 | 15 | \$10,632 | 89% | 0.11 |
| PECO | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Food | HVAC | New | unit (ton) | 96,009 | 0.5% | 0.12 | 15 | \$6,583 | 89% | 0.05 |
| PECO | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Food | HVAC | ROB | unit (ton) | 96,009 | 1.8% | 0.39 | 15 | \$5,112 | 89% | 0.23 |
| PECO | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Food | HVAC | Early | unit (ton) | 96,009 | 2.1% | 0.46 | 15 | \$9,779 | 89% | 0.14 |
| PECO | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Food | HVAC | New | unit (ton) | 96,009 | 0.8% | 0.17 | 15 | \$3,924 | 89% | 0.13 |
| PECO | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Food | HVAC | ROB | unit (ton) | 96,009 | 0.8% | 0.17 | 15 | \$3,924 | 89% | 0.13 |
| PECO | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Food | HVAC | Early | unit (ton) | 96,009 | 2.4% | 0.52 | 15 | \$8,288 | 89% | 0.19 |
| PECO | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Food | HVAC | New | unit (ton) | 96,009 | 0.9% | 0.19 | 15 | \$2,086 | 89% | 0.28 |
| PECO | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Food | HVAC | ROB | unit (ton) | 96,009 | 2.4% | 0.52 | 15 | \$1,487 | 89% | 0.96 |
| PECO | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Food | HVAC | Early | unit (ton) | 96,009 | 1.8% | 0.39 | 15 | \$8,205 | 89% | 0.14 |
| PECO | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Food | HVAC | New | unit (ton) | 96,009 | 0.7% | 0.15 | 15 | \$2,298 | 89% | 0.19 |
| PECO | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Food | HVAC | ROB | unit (ton) | 96,009 | 1.8% | 0.39 | 15 | \$1,820 | 89% | 0.62 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---|-----------|----------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Food | HVAC | Existing | building | 96,009 | 2.9% | 0.56 | 5 | \$1,019 | 55% | 0.60 |
| PECO | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Food | HVAC | New | building | 96,009 | 0.6% | 0.22 | 5 | \$611 | 51% | 0.28 |
| PECO | Improved Controls - HVAC | Mfg: Food | HVAC | Existing | end use | 96,009 | 21% | 2.88 | 10 | \$1,009 | 76% | 3.65 |
| PECO | Improved Controls - HVAC | Mfg: Food | HVAC | New | end use | 96,009 | 21% | 2.88 | 10 | \$1,009 | 76% | 3.64 |
| PECO | Outside Air Economizer | Mfg: Food | HVAC | Existing | building | 96,009 | 1.1% | 0.27 | 10 | \$352,756 | 82% | 0.00 |
| PECO | Outside Air Economizer | Mfg: Food | HVAC | New | building | 96,009 | 1.1% | 0.27 | 10 | \$352,756 | 82% | 0.00 |
| PECO | Recommissioning | Mfg: Food | HVAC | Existing | end use | 96,009 | 5.9% | 0.69 | 10 | \$132 | 88% | 4.58 |
| PECO | Recommissioning | Mfg: Food | HVAC | New | end use | 96,009 | 5.7% | 0.69 | 10 | \$132 | 88% | 4.56 |
| PECO | Room AC (with louvered sides) | Mfg: Food | HVAC | Early | unit (ton) | 96,009 | 7.7% | 1.67 | 9 | \$7,528 | 78% | 0.42 |
| PECO | Room AC (with louvered sides) | Mfg: Food | HVAC | New | unit (ton) | 96,009 | 2.6% | 0.56 | 9 | \$412 | 78% | 1.94 |
| PECO | Room AC (with louvered sides) | Mfg: Food | HVAC | ROB | unit (ton) | 96,009 | 2.6% | 0.56 | 9 | \$412 | 78% | 1.94 |
| PECO | Variable Refrigerant Flow Heat Pump | Mfg: Food | HVAC | New | measure | 96,009 | 0.1% | 0.02 | 13 | \$707 | 43% | 0.10 |
| PECO | Variable Refrigerant Flow Heat Pump | Mfg: Food | HVAC | ROB | measure | 96,009 | 0.1% | 0.02 | 13 | \$707 | 43% | 0.10 |
| PECO | VFD on Cooling Tower Fan | Mfg: Food | HVAC | Early | motor | 96,009 | 21% | 6.05 | 15 | \$4,433 | 15% | 2.53 |
| PECO | VFD on Cooling Tower Fan | Mfg: Food | HVAC | New | motor | 96,009 | 22% | 6.05 | 15 | \$4,518 | 15% | 2.52 |
| PECO | VFD on Cooling Tower Fan | Mfg: Food | HVAC | ROB | motor | 96,009 | 22% | 6.05 | 15 | \$4,518 | 15% | 2.52 |
| PECO | Wall Insualtions (Going upto R 21) | Mfg: Food | HVAC | Existing | building | 96,009 | 19% | 4.59 | 15 | \$68,298 | 26% | 0.18 |
| PECO | Wall Insualtions (Going upto R 21) | Mfg: Food | HVAC | New | building | 96,009 | 0.6% | 0.15 | 15 | \$52,388 | 94% | 0.01 |
| PECO | Water Source Heat Pump (4 ton) | Mfg: Food | HVAC | Early | heat pump | 96,009 | 1.5% | 0.33 | 15 | \$16,321 | 28% | 0.06 |
| PECO | Water Source Heat Pump (4 ton) | Mfg: Food | HVAC | New | heat pump | 96,009 | 1.1% | 0.24 | 15 | \$7,955 | 28% | 0.09 |
| PECO | Water Source Heat Pump (4 ton) | Mfg: Food | HVAC | ROB | heat pump | 96,009 | 1.1% | 0.24 | 15 | \$7,955 | 28% | 0.09 |
| PECO | Efficient Metal Halide (High Bay) | Mfg: Food | Lighting | Early | end use | 99,132 | 42% | 0.00 | 9 | \$15,491 | 53% | 0.83 |
| PECO | Efficient Metal Halide (High Bay) | Mfg: Food | Lighting | New | end use | 99,132 | 41% | 0.00 | 13 | \$413,760 | 61% | 0.05 |
| PECO | Efficient Metal Halide (High Bay) | Mfg: Food | Lighting | ROB | end use | 99,132 | 41% | 0.00 | 13 | \$316,218 | 61% | 0.06 |
| PECO | Induction (High Bay) | Mfg: Food | Lighting | Early | end use | 99,132 | 94% | 0.00 | 13 | \$46,091 | 95% | 0.88 |
| PECO | Induction (High Bay) | Mfg: Food | Lighting | New | end use | 99,132 | 94% | 0.00 | 13 | \$43,153 | 95% | 0.94 |
| PECO | Induction (High Bay) | Mfg: Food | Lighting | ROB | end use | 99,132 | 94% | 0.00 | 13 | \$32,798 | 95% | 1.18 |
| PECO | LED (High Bay) | Mfg: Food | Lighting | Early | end use | 99,132 | 69% | 0.00 | 14 | \$54,256 | 95% | 0.61 |
| PECO | LED (High Bay) | Mfg: Food | Lighting | New | end use | 99,132 | 55% | 0.00 | 14 | \$60,223 | 95% | 0.45 |
| PECO | LED (High Bay) | Mfg: Food | Lighting | ROB | end use | 99,132 | 59% | 0.00 | 14 | \$39,680 | 95% | 0.70 |
| PECO | Lighting Controls | Mfg: Food | Lighting | Existing | end use | 99,132 | 20% | 0.00 | 6 | \$371,636 | 16% | 0.01 |
| PECO | Lighting Controls | Mfg: Food | Lighting | New | end use | 99,132 | 12% | 0.00 | 10 | \$494,397 | 11% | 0.01 |
| PECO | Linear Fluorescent (High Bay) | Mfg: Food | Lighting | Early | end use | 99,132 | 17% | 0.00 | 14 | \$11,343 | 98% | 0.70 |
| PECO | Linear Fluorescent (High Bay) | Mfg: Food | Lighting | New | end use | 99,132 | 13% | 0.00 | 14 | \$3,597 | 91% | 1.48 |
| PECO | Linear Fluorescent (High Bay) | Mfg: Food | Lighting | ROB | end use | 99,132 | 13% | 0.00 | 14 | \$2,303 | 91% | 2.13 |
| PECO | Metal Halide (High Bay) | Mfg: Food | Lighting | Early | end use | 99,132 | 62% | 0.00 | 13 | \$68,147 | 38% | 0.42 |
| PECO | Metal Halide (High Bay) | Mfg: Food | Lighting | New | end use | 99,132 | 73% | 0.00 | 13 | \$16,293 | 38% | 1.68 |
| PECO | Metal Halide (High Bay) | Mfg: Food | Lighting | ROB | end use | 99,132 | 73% | 0.00 | 13 | \$12,383 | 38% | 2.06 |
| PECO | Screw Base CFL | Mfg: Food | Lighting | Early | end use | 99,132 | 80% | 0.00 | 7 | \$26,932 | 17% | 0.69 |
| PECO | Screw Base CFL | Mfg: Food | Lighting | New | end use | 99,132 | 73% | 0.00 | 9 | \$22,010 | 18% | 0.97 |
| PECO | Screw Base CFL | Mfg: Food | Lighting | ROB | end use | 99,132 | 73% | 0.00 | 9 | \$18,422 | 17% | 1.12 |
| PECO | Screw Base LED | Mfg: Food | Lighting | Early | end use | 99,132 | 76% | 0.00 | 9 | \$16,528 | 21% | 1.31 |
| PECO | Screw Base LED | Mfg: Food | Lighting | New | end use | 99,132 | 77% | 0.00 | 9 | \$9,207 | 20% | 1.99 |
| PECO | Screw Base LED | Mfg: Food | Lighting | ROB | end use | 99,132 | 77% | 0.00 | 9 | \$7,309 | 21% | 2.29 |
| PECO | T8 High Performance Linear Florescent | Mfg: Food | Lighting | Early | end use | 99,132 | 36% | 0.00 | 14 | \$9,486 | 71% | 1.57 |
| PECO | T8 High Performance Linear Florescent | Mfg: Food | Lighting | New | end use | 99,132 | 26% | 0.00 | 14 | \$3,394 | 76% | 2.64 |
| PECO | T8 High Performance Linear Florescent | Mfg: Food | Lighting | ROB | end use | 99,132 | 26% | 0.00 | 14 | \$2,580 | 76% | 3.12 |
| PECO | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Food | Motors | Early | end use | 48,834 | 0.9% | 0.06 | 15 | \$746 | 81% | 0.38 |
| PECO | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Food | Motors | New | end use | 48,834 | 0.9% | 0.06 | 15 | \$746 | 81% | 0.38 |
| PECO | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Food | Motors | ROB | end use | 48,834 | 0.9% | 0.06 | 15 | \$746 | 81% | 0.37 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|--|-----------|---------|----------|---------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Food | Motors | Early | end use | 48,834 | 0.8% | 0.05 | 15 | \$453 | 73% | 0.51 |
| PECO | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Food | Motors | New | end use | 48,834 | 0.8% | 0.05 | 15 | \$453 | 73% | 0.51 |
| PECO | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Food | Motors | ROB | end use | 48,834 | 0.8% | 0.05 | 15 | \$453 | 73% | 0.50 |
| PECO | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Food | Motors | Early | end use | 48,834 | 0.4% | 0.03 | 15 | \$174 | 81% | 0.76 |
| PECO | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Food | Motors | New | end use | 48,834 | 0.5% | 0.03 | 15 | \$174 | 81% | 0.78 |
| PECO | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Food | Motors | ROB | end use | 48,834 | 0.5% | 0.03 | 15 | \$174 | 81% | 0.77 |
| PECO | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Food | Motors | Early | end use | 48,834 | 0.4% | 0.03 | 15 | \$57 | 73% | 1.84 |
| PECO | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Food | Motors | New | end use | 48,834 | 0.4% | 0.03 | 15 | \$57 | 73% | 1.82 |
| PECO | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Food | Motors | ROB | end use | 48,834 | 0.4% | 0.03 | 15 | \$57 | 73% | 1.81 |
| PECO | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Food | Motors | Early | end use | 48,834 | 0.9% | 0.06 | 15 | \$86 | 47% | 2.51 |
| PECO | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Food | Motors | New | end use | 48,834 | 0.9% | 0.06 | 15 | \$86 | 47% | 2.51 |
| PECO | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Food | Motors | ROB | end use | 48,834 | 0.9% | 0.06 | 15 | \$86 | 47% | 2.51 |
| PECO | Facility Energy Management | Mfg: Food | Motors | Existing | end use | 48,834 | 4.4% | 0.13 | 2 | \$19 | 77% | 1.22 |
| PECO | Facility Energy Management | Mfg: Food | Motors | New | end use | 48,834 | 4.9% | 0.13 | 2 | \$19 | 77% | 1.23 |
| PECO | HE Motors | Mfg: Food | Motors | Early | end use | 48,834 | 2.0% | 0.14 | 15 | \$291 | 38% | 1.81 |
| PECO | HE Motors | Mfg: Food | Motors | New | end use | 48,834 | 2.0% | 0.14 | 15 | \$291 | 38% | 1.81 |
| PECO | HE Motors | Mfg: Food | Motors | ROB | end use | 48,834 | 2.0% | 0.14 | 15 | \$291 | 38% | 1.81 |
| PECO | High-Efficiency Ventilation System | Mfg: Food | Motors | Early | end use | 48,834 | 5.7% | 0.40 | 10 | \$3,052 | 73% | 0.41 |
| PECO | High-Efficiency Ventilation System | Mfg: Food | Motors | New | end use | 48,834 | 5.7% | 0.40 | 10 | \$3,052 | 73% | 0.41 |
| PECO | High-Efficiency Ventilation System | Mfg: Food | Motors | ROB | end use | 48,834 | 5.7% | 0.40 | 10 | \$3,052 | 73% | 0.41 |
| PECO | Improved Controls - Motors | Mfg: Food | Motors | Existing | end use | 48,834 | 4.0% | 0.28 | 10 | \$212 | 73% | 2.65 |
| PECO | Improved Controls - Motors | Mfg: Food | Motors | New | end use | 48,834 | 4.0% | 0.28 | 10 | \$212 | 73% | 2.65 |
| PECO | Motor Management Plan | Mfg: Food | Motors | Existing | end use | 48,834 | 3.2% | 0.20 | 10 | \$100 | 73% | 3.51 |
| PECO | Motor Management Plan | Mfg: Food | Motors | New | end use | 48,834 | 3.7% | 0.20 | 10 | \$100 | 73% | 3.70 |
| PECO | Motors Other | Mfg: Food | Motors | Existing | end use | 48,834 | 1.1% | 0.08 | 15 | \$9.7 | 83% | 7.39 |
| PECO | Motors Other | Mfg: Food | Motors | New | end use | 48,834 | 1.1% | 0.08 | 15 | \$9.7 | 83% | 7.39 |
| PECO | Motors: Rewind 101-200 HP | Mfg: Food | Motors | Existing | end use | 48,834 | 1.3% | 0.04 | 10 | \$62 | 27% | 2.60 |
| PECO | Motors: Rewind 101-200 HP | Mfg: Food | Motors | New | end use | 48,834 | 1.1% | 0.04 | 10 | \$62 | 27% | 2.37 |
| PECO | Motors: Rewind 201-500 HP | Mfg: Food | Motors | Existing | end use | 48,834 | 2.2% | 0.04 | 8 | \$39 | 27% | 3.38 |
| PECO | Motors: Rewind 201-500 HP | Mfg: Food | Motors | New | end use | 48,834 | 0.5% | 0.04 | 8 | \$39 | 27% | 1.83 |
| PECO | Motors: Rewind 20-50 HP | Mfg: Food | Motors | Existing | end use | 48,834 | 2.7% | 0.07 | 11 | \$181 | 42% | 2.35 |
| PECO | Motors: Rewind 20-50 HP | Mfg: Food | Motors | New | end use | 48,834 | 1.7% | 0.07 | 11 | \$181 | 42% | 1.75 |
| PECO | Motors: Rewind 500+ HP | Mfg: Food | Motors | Existing | end use | 48,834 | 1.9% | 0.04 | 8 | \$28 | 11% | 3.57 |
| PECO | Motors: Rewind 500+ HP | Mfg: Food | Motors | New | end use | 48,834 | 2.1% | 0.04 | 8 | \$28 | 11% | 3.66 |
| PECO | Motors: Rewind 51-100 HP | Mfg: Food | Motors | Existing | end use | 48,834 | 0.7% | 0.04 | 9 | \$89 | 42% | 1.29 |
| PECO | Motors: Rewind 51-100 HP | Mfg: Food | Motors | New | end use | 48,834 | 2.2% | 0.04 | 9 | \$89 | 42% | 2.60 |
| PECO | Switch from Belt drive to Direct Drive | Mfg: Food | Motors | Early | end use | 48,834 | 7.5% | 0.52 | 12 | \$784 | 30% | 1.95 |
| PECO | Switch from Belt drive to Direct Drive | Mfg: Food | Motors | New | end use | 48,834 | 7.5% | 0.52 | 12 | \$784 | 30% | 1.95 |
| PECO | Switch from Belt drive to Direct Drive | Mfg: Food | Motors | ROB | end use | 48,834 | 7.5% | 0.52 | 12 | \$784 | 30% | 1.95 |
| PECO | Synchronous Belts | Mfg: Food | Motors | Early | end use | 48,834 | 1.2% | 0.08 | 10 | \$72 | 30% | 2.42 |
| PECO | Synchronous Belts | Mfg: Food | Motors | New | end use | 48,834 | 1.2% | 0.08 | 10 | \$72 | 30% | 2.42 |
| PECO | Synchronous Belts | Mfg: Food | Motors | ROB | end use | 48,834 | 1.2% | 0.08 | 10 | \$72 | 30% | 2.42 |
| PECO | Bldg Improvements | Mfg: Food | Other | Existing | end use | 33,476 | 16% | 0.64 | 15 | \$730 | 72% | 3.13 |
| PECO | Bldg Improvements | Mfg: Food | Other | New | end use | 33,476 | 16% | 0.64 | 15 | \$730 | 72% | 3.13 |
| PECO | Energy Project Management | Mfg: Food | Other | Existing | end use | 33,476 | 30% | 1.16 | 11 | \$1,195 | 63% | 2.67 |
| PECO | Energy Project Management | Mfg: Food | Other | New | end use | 33,476 | 30% | 1.16 | 11 | \$1,195 | 63% | 2.64 |
| PECO | Facility Energy Management | Mfg: Food | Other | Existing | end use | 33,476 | 5.6% | 0.07 | 2 | \$13 | 76% | 1.23 |
| PECO | Facility Energy Management | Mfg: Food | Other | New | end use | 33,476 | 5.8% | 0.07 | 2 | \$13 | 76% | 1.23 |
| PECO | Integrated Plant Energy Management | Mfg: Food | Other | Existing | end use | 33,476 | 50% | 1.99 | 11 | \$3,300 | 48% | 1.89 |
| PECO | Integrated Plant Energy Management | Mfg: Food | Other | New | end use | 33,476 | 50% | 1.99 | 11 | \$3,300 | 48% | 1.90 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|-------------------------------------|-----------|------------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Plant Energy Management | Mfg: Food | Other | Existing | end use | 33,476 | 13% | 0.48 | 10 | \$84 | 55% | 5.18 |
| PECO | Plant Energy Management | Mfg: Food | Other | New | end use | 33,476 | 13% | 0.48 | 10 | \$84 | 55% | 5.17 |
| PECO | Transformers | Mfg: Food | Other | Early | end use | 33,476 | 1.6% | 0.06 | 30 | \$107 | 34% | 3.55 |
| PECO | Transformers | Mfg: Food | Other | New | end use | 33,476 | 1.6% | 0.06 | 30 | \$107 | 34% | 3.56 |
| PECO | Transformers | Mfg: Food | Other | ROB | end use | 33,476 | 1.6% | 0.06 | 30 | \$107 | 34% | 3.55 |
| PECO | Air Compressor Demand Reduction | Mfg: Food | Process Air Compressor | Existing | end use | 550 | 26% | 0.02 | 10 | \$8.2 | 52% | 3.67 |
| PECO | Air Compressor Demand Reduction | Mfg: Food | Process Air Compressor | New | end use | 550 | 26% | 0.02 | 10 | \$8.2 | 52% | 3.67 |
| PECO | Air Compressor Equipment | Mfg: Food | Process Air Compressor | Early | end use | 550 | 39% | 0.03 | 10 | \$10.0 | 73% | 3.81 |
| PECO | Air Compressor Equipment | Mfg: Food | Process Air Compressor | New | end use | 550 | 39% | 0.03 | 10 | \$10.0 | 73% | 3.81 |
| PECO | Air Compressor Equipment | Mfg: Food | Process Air Compressor | ROB | end use | 550 | 39% | 0.03 | 10 | \$10.0 | 73% | 3.81 |
| PECO | Air Compressor Optimization | Mfg: Food | Process Air Compressor | Existing | end use | 550 | 39% | 0.03 | 10 | \$24 | 55% | 2.61 |
| PECO | Air Compressor Optimization | Mfg: Food | Process Air Compressor | New | end use | 550 | 39% | 0.03 | 10 | \$24 | 55% | 2.61 |
| PECO | Facility Energy Management | Mfg: Food | Process Air Compressor | Existing | end use | 550 | 7.8% | 0.00 | 2 | \$0.2 | 62% | 1.25 |
| PECO | Facility Energy Management | Mfg: Food | Process Air Compressor | New | end use | 550 | 7.9% | 0.00 | 2 | \$0.2 | 62% | 1.25 |
| PECO | HE Compressor motors | Mfg: Food | Process Air Compressor | Early | end use | 550 | 1.1% | 0.00 | 15 | \$2.1 | 73% | 1.50 |
| PECO | HE Compressor motors | Mfg: Food | Process Air Compressor | New | end use | 550 | 1.1% | 0.00 | 15 | \$2.1 | 73% | 1.48 |
| PECO | HE Compressor motors | Mfg: Food | Process Air Compressor | ROB | end use | 550 | 1.1% | 0.00 | 15 | \$2.1 | 73% | 1.50 |
| PECO | Improved Controls - Air Compressor | Mfg: Food | Process Air Compressor | Existing | end use | 550 | 41% | 0.03 | 10 | \$9.8 | 25% | 4.13 |
| PECO | Improved Controls - Air Compressor | Mfg: Food | Process Air Compressor | New | end use | 550 | 41% | 0.03 | 10 | \$9.8 | 25% | 4.13 |
| PECO | Low Pressure-drop Filters | Mfg: Food | Process Air Compressor | Existing | end use | 550 | 2.8% | 0.00 | 10 | \$6.2 | 61% | 0.97 |
| PECO | Low Pressure-drop Filters | Mfg: Food | Process Air Compressor | New | end use | 550 | 2.0% | 0.00 | 10 | \$6.2 | 61% | 0.75 |
| PECO | Outside Air Intake | Mfg: Food | Process Air Compressor | Existing | end use | 550 | 1.9% | 0.00 | 10 | \$3.6 | 48% | 1.12 |
| PECO | Outside Air Intake | Mfg: Food | Process Air Compressor | New | end use | 550 | 1.8% | 0.00 | 10 | \$3.6 | 48% | 1.07 |
| PECO | Receiver Capacity Addition | Mfg: Food | Process Air Compressor | Existing | end use | 550 | 6.9% | 0.00 | 10 | \$10 | 36% | 1.37 |
| PECO | Receiver Capacity Addition | Mfg: Food | Process Air Compressor | New | end use | 550 | 6.7% | 0.00 | 10 | \$10 | 36% | 1.35 |
| PECO | Refrigerated Cycling Dryers | Mfg: Food | Process Air Compressor | Early | end use | 550 | 1.7% | 0.00 | 10 | \$1.3 | 21% | 2.15 |
| PECO | Refrigerated Cycling Dryers | Mfg: Food | Process Air Compressor | New | end use | 550 | 1.7% | 0.00 | 10 | \$1.3 | 21% | 2.15 |
| PECO | Refrigerated Cycling Dryers | Mfg: Food | Process Air Compressor | ROB | end use | 550 | 1.7% | 0.00 | 10 | \$1.3 | 21% | 2.14 |
| PECO | VFD Controlled Compressor | Mfg: Food | Process Air Compressor | Early | end use | 550 | 24% | 0.02 | 10 | \$54 | 28% | 0.92 |
| PECO | VFD Controlled Compressor | Mfg: Food | Process Air Compressor | New | end use | 550 | 24% | 0.02 | 10 | \$54 | 28% | 0.92 |
| PECO | VFD Controlled Compressor | Mfg: Food | Process Air Compressor | ROB | end use | 550 | 24% | 0.02 | 10 | \$54 | 28% | 0.92 |
| PECO | Zero Loss Condensate Drain | Mfg: Food | Process Air Compressor | Early | end use | 550 | 1.9% | 0.00 | 10 | \$3.2 | 36% | 1.17 |
| PECO | Zero Loss Condensate Drain | Mfg: Food | Process Air Compressor | New | end use | 550 | 1.8% | 0.00 | 10 | \$3.2 | 36% | 1.17 |
| PECO | Zero Loss Condensate Drain | Mfg: Food | Process Air Compressor | ROB | end use | 550 | 1.9% | 0.00 | 10 | \$3.2 | 36% | 1.18 |
| PECO | Cooling Tower Optimization | Mfg: Food | Process Cooling | Existing | building | 183,164 | 20% | 13.11 | 10 | \$1,123 | 15% | 5.57 |
| PECO | Equipment: Chillers | Mfg: Food | Process Cooling | Early | end use | 183,164 | 18% | 6.83 | 20 | \$8,596 | 68% | 2.37 |
| PECO | Equipment: Chillers | Mfg: Food | Process Cooling | New | end use | 183,164 | 18% | 6.83 | 20 | \$8,596 | 68% | 2.37 |
| PECO | Equipment: Chillers | Mfg: Food | Process Cooling | ROB | end use | 183,164 | 18% | 6.83 | 20 | \$8,596 | 68% | 2.37 |
| PECO | Facility Energy Management | Mfg: Food | Process Cooling | Existing | end use | 183,164 | 9.3% | 0.70 | 2 | \$71 | 86% | 1.28 |
| PECO | Facility Energy Management | Mfg: Food | Process Cooling | New | end use | 183,164 | 9.1% | 0.70 | 2 | \$71 | 86% | 1.27 |
| PECO | Food: Refrig Storage Tuneup | Mfg: Food | Process Cooling | Existing | end use | 183,164 | 14% | 5.48 | 3 | \$1,143 | 47% | 1.45 |
| PECO | Food: Refrig Storage Tuneup | Mfg: Food | Process Cooling | New | end use | 183,164 | 14% | 5.48 | 3 | \$1,143 | 47% | 1.45 |
| PECO | Fruit Storage Refer Retrofit | Mfg: Food | Process Cooling | Existing | end use | 183,164 | 38% | 14.59 | 10 | \$11,842 | 12% | 2.10 |
| PECO | Fruit Storage Refer Retrofit | Mfg: Food | Process Cooling | New | end use | 183,164 | 38% | 14.59 | 10 | \$11,842 | 12% | 2.11 |
| PECO | Fruit Storage Tuneup | Mfg: Food | Process Cooling | Existing | end use | 183,164 | 16% | 5.96 | 3 | \$1,242 | 12% | 1.45 |
| PECO | Fruit Storage Tuneup | Mfg: Food | Process Cooling | New | end use | 183,164 | 16% | 5.96 | 3 | \$1,242 | 12% | 1.45 |
| PECO | Improved Controls - Process Cooling | Mfg: Food | Process Cooling | Existing | end use | 183,164 | 6.5% | 2.29 | 10 | \$9,671 | 81% | 0.56 |
| PECO | Improved Controls - Process Cooling | Mfg: Food | Process Cooling | New | end use | 183,164 | 6.2% | 2.29 | 10 | \$9,671 | 81% | 0.54 |
| PECO | VFD on Cooling Tower Fan | Mfg: Food | Process Cooling | Early | motor | 183,164 | 21% | 11.55 | 15 | \$12,163 | 20% | 1.93 |
| PECO | VFD on Cooling Tower Fan | Mfg: Food | Process Cooling | New | motor | 183,164 | 22% | 11.55 | 15 | \$12,395 | 20% | 1.92 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---------------------------------------|-------------|-----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | VFD on Cooling Tower Fan | Mfg: Food | Process Cooling | ROB | motor | 183,164 | 22% | 11.55 | 15 | \$12,395 | 20% | 1.92 |
| PECO | Improved Controls - Process Heating | Mfg: Food | Process Heating | Existing | end use | 48,664 | 17% | 1.14 | 10 | \$559 | 77% | 3.46 |
| PECO | Improved Controls - Process Heating | Mfg: Food | Process Heating | New | end use | 48,664 | 17% | 1.14 | 10 | \$559 | 77% | 3.46 |
| PECO | Process Heat O&M | Mfg: Food | Process Heating | Existing | end use | 48,664 | 16% | 1.08 | 2 | \$338 | 77% | 0.92 |
| PECO | Process Heat O&M | Mfg: Food | Process Heating | New | end use | 48,664 | 16% | 1.08 | 2 | \$338 | 77% | 0.92 |
| PECO | Facility Energy Management | Mfg: Food | Process Other | Existing | end use | 4,689 | 11% | 0.01 | 2 | \$1.8 | 73% | 1.26 |
| PECO | Facility Energy Management | Mfg: Food | Process Other | New | end use | 4,689 | 11% | 0.01 | 2 | \$1.8 | 73% | 1.26 |
| PECO | Adjustable speed drive on compressors | Mfg: Food | Process Refrigeration | Early | end use | 94,090 | 12% | 1.61 | 10 | \$1,740 | 81% | 1.92 |
| PECO | Adjustable speed drive on compressors | Mfg: Food | Process Refrigeration | New | end use | 94,090 | 12% | 1.61 | 10 | \$1,740 | 81% | 1.92 |
| PECO | Adjustable speed drive on compressors | Mfg: Food | Process Refrigeration | ROB | end use | 94,090 | 12% | 1.61 | 10 | \$1,740 | 81% | 1.92 |
| PECO | Cold Storage Retrofit | Mfg: Food | Process Refrigeration | Existing | end use | 94,090 | 18% | 2.51 | 10 | \$2,934 | 73% | 1.82 |
| PECO | Cold Storage Retrofit | Mfg: Food | Process Refrigeration | New | end use | 94,090 | 18% | 2.51 | 10 | \$2,934 | 73% | 1.82 |
| PECO | Cold Storage Tuneup | Mfg: Food | Process Refrigeration | Existing | end use | 94,090 | 13% | 1.86 | 3 | \$718 | 73% | 1.13 |
| PECO | Cold Storage Tuneup | Mfg: Food | Process Refrigeration | New | end use | 94,090 | 13% | 1.86 | 3 | \$718 | 73% | 1.13 |
| PECO | Cooling Tower Optimization | Mfg: Food | Process Refrigeration | Existing | building | 94,090 | 20% | 6.74 | 10 | \$577 | 15% | 5.57 |
| PECO | Food: Cooling and Storage | Mfg: Food | Process Refrigeration | Existing | end use | 94,090 | 15% | 2.07 | 10 | \$4,234 | 73% | 1.19 |
| PECO | Food: Cooling and Storage | Mfg: Food | Process Refrigeration | New | end use | 94,090 | 15% | 2.07 | 10 | \$4,234 | 73% | 1.19 |
| PECO | Optimization of operating parameters | Mfg: Food | Process Refrigeration | Existing | end use | 94,090 | 14% | 1.80 | 3 | \$760 | 73% | 1.11 |
| PECO | Optimization of operating parameters | Mfg: Food | Process Refrigeration | New | end use | 94,090 | 13% | 1.80 | 3 | \$760 | 73% | 1.09 |
| PECO | Synchronous Belts | Mfg: Food | Process Refrigeration | Early | end use | 94,090 | 1.2% | 0.16 | 10 | \$139 | 81% | 2.23 |
| PECO | Synchronous Belts | Mfg: Food | Process Refrigeration | New | end use | 94,090 | 1.2% | 0.16 | 10 | \$139 | 81% | 2.23 |
| PECO | Synchronous Belts | Mfg: Food | Process Refrigeration | ROB | end use | 94,090 | 1.2% | 0.16 | 10 | \$139 | 81% | 2.23 |
| PECO | VFD on Cooling Tower Fan | Mfg: Food | Process Refrigeration | Early | motor | 94,090 | 21% | 5.93 | 15 | \$6,248 | 20% | 1.93 |
| PECO | VFD on Cooling Tower Fan | Mfg: Food | Process Refrigeration | New | motor | 94,090 | 22% | 5.93 | 15 | \$6,367 | 20% | 1.92 |
| PECO | VFD on Cooling Tower Fan | Mfg: Food | Process Refrigeration | ROB | motor | 94,090 | 22% | 5.93 | 15 | \$6,367 | 20% | 1.92 |
| PECO | Facility Energy Management | Mfg: Food | Pumps | Existing | end use | 273,743 | 12% | 0.66 | 2 | \$105 | 65% | 1.20 |
| PECO | Facility Energy Management | Mfg: Food | Pumps | New | end use | 273,743 | 12% | 0.66 | 2 | \$105 | 65% | 1.20 |
| PECO | HE Motors | Mfg: Food | Pumps | Early | end use | 273,743 | 2.0% | 0.73 | 15 | \$1,630 | 69% | 1.70 |
| PECO | HE Motors | Mfg: Food | Pumps | New | end use | 273,743 | 2.0% | 0.73 | 15 | \$1,630 | 69% | 1.70 |
| PECO | HE Motors | Mfg: Food | Pumps | ROB | end use | 273,743 | 2.0% | 0.73 | 15 | \$1,630 | 69% | 1.70 |
| PECO | Motor rewinds | Mfg: Food | Pumps | Existing | end use | 273,743 | 1.7% | 0.21 | 9 | \$389 | 11% | 2.46 |
| PECO | Motor rewinds | Mfg: Food | Pumps | New | end use | 273,743 | 0.9% | 0.21 | 9 | \$389 | 11% | 1.72 |
| PECO | Pump Equipment Upgrade | Mfg: Food | Pumps | Early | end use | 273,743 | 20% | 7.12 | 12 | \$6,844 | 77% | 2.66 |
| PECO | Pump Equipment Upgrade | Mfg: Food | Pumps | New | end use | 273,743 | 20% | 7.12 | 12 | \$6,844 | 77% | 2.66 |
| PECO | Pump Equipment Upgrade | Mfg: Food | Pumps | ROB | end use | 273,743 | 20% | 7.12 | 12 | \$6,844 | 77% | 2.66 |
| PECO | Pump System Optimization | Mfg: Food | Pumps | Existing | end use | 273,743 | 8.7% | 3.10 | 12 | \$5,012 | 36% | 1.85 |
| PECO | Pump System Optimization | Mfg: Food | Pumps | New | end use | 273,743 | 8.7% | 3.10 | 12 | \$5,012 | 36% | 1.85 |
| PECO | Synchronous Belts | Mfg: Food | Pumps | Early | end use | 273,743 | 1.2% | 0.41 | 10 | \$403 | 57% | 2.28 |
| PECO | Synchronous Belts | Mfg: Food | Pumps | New | end use | 273,743 | 1.2% | 0.41 | 10 | \$403 | 57% | 2.28 |
| PECO | Synchronous Belts | Mfg: Food | Pumps | ROB | end use | 273,743 | 1.2% | 0.41 | 10 | \$403 | 57% | 2.28 |
| PECO | Circulating Fans | Mfg: Metals | Fans | Early | end use | 70,324 | 5.0% | 0.42 | 10 | \$428 | 68% | 2.31 |
| PECO | Circulating Fans | Mfg: Metals | Fans | New | end use | 70,324 | 5.0% | 0.42 | 10 | \$428 | 68% | 2.32 |
| PECO | Circulating Fans | Mfg: Metals | Fans | ROB | end use | 70,324 | 5.0% | 0.42 | 10 | \$428 | 68% | 2.31 |
| PECO | Facility Energy Management | Mfg: Metals | Fans | Existing | end use | 70,324 | 2.8% | 0.15 | 2 | \$27 | 77% | 1.12 |
| PECO | Facility Energy Management | Mfg: Metals | Fans | New | end use | 70,324 | 1.9% | 0.15 | 2 | \$27 | 77% | 1.08 |
| PECO | HE Motors | Mfg: Metals | Fans | Early | end use | 70,324 | 2.0% | 0.17 | 15 | \$419 | 77% | 1.68 |
| PECO | HE Motors | Mfg: Metals | Fans | New | end use | 70,324 | 2.0% | 0.17 | 15 | \$419 | 77% | 1.68 |
| PECO | HE Motors | Mfg: Metals | Fans | ROB | end use | 70,324 | 2.0% | 0.17 | 15 | \$419 | 77% | 1.68 |
| PECO | Improved Controls - Fans | Mfg: Metals | Fans | Existing | end use | 70,324 | 7.1% | 0.59 | 10 | \$273 | 60% | 3.55 |
| PECO | Improved Controls - Fans | Mfg: Metals | Fans | New | end use | 70,324 | 7.1% | 0.59 | 10 | \$273 | 60% | 3.55 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|--|-------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Properly Sized Fans | Mfg: Metals | Fans | Early | end use | 70,324 | 13% | 1.10 | 10 | \$1,440 | 41% | 1.96 |
| PECO | Properly Sized Fans | Mfg: Metals | Fans | New | end use | 70,324 | 13% | 1.10 | 10 | \$1,440 | 41% | 1.96 |
| PECO | Properly Sized Fans | Mfg: Metals | Fans | ROB | end use | 70,324 | 13% | 1.10 | 10 | \$1,440 | 41% | 1.96 |
| PECO | Synchronous Belts | Mfg: Metals | Fans | Early | end use | 70,324 | 1.2% | 0.10 | 10 | \$104 | 41% | 2.25 |
| PECO | Synchronous Belts | Mfg: Metals | Fans | New | end use | 70,324 | 1.2% | 0.10 | 10 | \$104 | 41% | 2.25 |
| PECO | Synchronous Belts | Mfg: Metals | Fans | ROB | end use | 70,324 | 1.2% | 0.10 | 10 | \$104 | 41% | 2.25 |
| PECO | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Metals | HVAC | Early | unit (ton) | 40,965 | 9.2% | 0.98 | 15 | \$7,466 | 28% | 0.34 |
| PECO | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Metals | HVAC | New | unit (ton) | 40,965 | 4.1% | 0.44 | 15 | \$1,809 | 28% | 0.62 |
| PECO | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Metals | HVAC | ROB | unit (ton) | 40,965 | 4.1% | 0.44 | 15 | \$1,809 | 28% | 0.62 |
| PECO | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Metals | HVAC | Early | unit (ton) | 40,965 | 12% | 1.32 | 15 | \$8,801 | 28% | 0.39 |
| PECO | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Metals | HVAC | New | unit (ton) | 40,965 | 7.7% | 0.82 | 15 | \$3,810 | 28% | 0.55 |
| PECO | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Metals | HVAC | ROB | unit (ton) | 40,965 | 7.7% | 0.82 | 15 | \$3,810 | 28% | 0.55 |
| PECO | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Metals | HVAC | Early | unit (ton) | 40,965 | 15% | 1.62 | 15 | \$10,137 | 29% | 0.42 |
| PECO | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Metals | HVAC | New | unit (ton) | 40,965 | 11% | 1.15 | 15 | \$5,811 | 29% | 0.51 |
| PECO | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Metals | HVAC | ROB | unit (ton) | 40,965 | 11% | 1.15 | 15 | \$5,811 | 29% | 0.51 |
| PECO | >760k min 10.2 EER Air Conditioner | Mfg: Metals | HVAC | Early | unit (ton) | 40,965 | 2.1% | 0.23 | 15 | \$13,001 | 35% | 0.05 |
| PECO | >760k min 10.2 EER Air Conditioner | Mfg: Metals | HVAC | New | unit (ton) | 40,965 | 2.8% | 0.30 | 15 | \$1,175 | 35% | 0.65 |
| PECO | >760k min 10.2 EER Air Conditioner | Mfg: Metals | HVAC | ROB | unit (ton) | 40,965 | 2.8% | 0.30 | 15 | \$1,175 | 35% | 0.65 |
| PECO | 135-240k min 12 EER Air Conditioner | Mfg: Metals | HVAC | Early | unit (ton) | 40,965 | 10% | 1.11 | 15 | \$14,078 | 35% | 0.21 |
| PECO | 135-240k min 12 EER Air Conditioner | Mfg: Metals | HVAC | New | unit (ton) | 40,965 | 5.8% | 0.61 | 15 | \$1,662 | 35% | 0.91 |
| PECO | 135-240k min 12 EER Air Conditioner | Mfg: Metals | HVAC | ROB | unit (ton) | 40,965 | 5.8% | 0.61 | 15 | \$1,662 | 35% | 0.91 |
| PECO | 240k-760k min 11 EER Air Conditioner | Mfg: Metals | HVAC | Early | unit (ton) | 40,965 | 5.2% | 0.55 | 15 | \$13,009 | 35% | 0.11 |
| PECO | 240k-760k min 11 EER Air Conditioner | Mfg: Metals | HVAC | New | unit (ton) | 40,965 | 5.3% | 0.57 | 15 | \$1,394 | 35% | 1.00 |
| PECO | 240k-760k min 11 EER Air Conditioner | Mfg: Metals | HVAC | ROB | unit (ton) | 40,965 | 5.3% | 0.57 | 15 | \$1,394 | 35% | 1.00 |
| PECO | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Metals | HVAC | Early | unit (ton) | 40,965 | 9.7% | 1.03 | 15 | \$14,415 | 35% | 0.19 |
| PECO | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Metals | HVAC | New | unit (ton) | 40,965 | 3.8% | 0.41 | 15 | \$2,057 | 35% | 0.51 |
| PECO | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Metals | HVAC | ROB | unit (ton) | 40,965 | 3.8% | 0.41 | 15 | \$2,057 | 35% | 0.51 |
| PECO | Ceiling Insualtions (Going upto R 20) | Mfg: Metals | HVAC | Existing | building | 40,965 | 5.9% | 0.61 | 15 | \$124,117 | 71% | 0.01 |
| PECO | Ceiling Insualtions (Going upto R 20) | Mfg: Metals | HVAC | New | building | 40,965 | 3.7% | 0.38 | 15 | \$117,976 | 94% | 0.01 |
| PECO | Chiller Tuneup/Diagnostics | Mfg: Metals | HVAC | Existing | building | 40,965 | 8.0% | 1.20 | 10 | \$104,601 | 59% | 0.02 |
| PECO | Chiller Tuneup/Diagnostics | Mfg: Metals | HVAC | New | building | 40,965 | 8.0% | 1.20 | 10 | \$104,601 | 59% | 0.02 |
| PECO | Cooling Tower Optimization | Mfg: Metals | HVAC | Existing | building | 40,965 | 20% | 2.93 | 10 | \$251 | 12% | 5.50 |
| PECO | Duct Insulation, Add R8 | Mfg: Metals | HVAC | Existing | building | 40,965 | 1.5% | 0.13 | 15 | \$325 | 18% | 1.16 |
| PECO | Duct Insulation, Add R8 | Mfg: Metals | HVAC | New | building | 40,965 | 1.5% | 0.13 | 15 | \$325 | 9% | 1.16 |
| PECO | Ductless Heat Pump | Mfg: Metals | HVAC | Early | heat pump | 40,965 | 0.8% | 0.08 | 15 | \$3,239 | 83% | 0.07 |
| PECO | Ductless Heat Pump | Mfg: Metals | HVAC | New | heat pump | 40,965 | 0.4% | 0.04 | 15 | \$941 | 83% | 0.13 |
| PECO | Ductless Heat Pump | Mfg: Metals | HVAC | ROB | heat pump | 40,965 | 0.4% | 0.04 | 15 | \$941 | 83% | 0.13 |
| PECO | DX Coil Cleaning | Mfg: Metals | HVAC | Existing | building | 40,965 | 13% | 1.88 | 1 | \$393 | 73% | 0.46 |
| PECO | DX Coil Cleaning | Mfg: Metals | HVAC | New | building | 40,965 | 13% | 1.88 | 1 | \$393 | 73% | 0.46 |
| PECO | Efficient Unit Heating System | Mfg: Metals | HVAC | Early | heater | 40,965 | 6.9% | 0.02 | 15 | \$2,211 | 83% | 0.67 |
| PECO | Efficient Unit Heating System | Mfg: Metals | HVAC | New | heater | 40,965 | 4.0% | 0.01 | 15 | \$1,508 | 83% | 0.57 |
| PECO | Efficient Unit Heating System | Mfg: Metals | HVAC | ROB | heater | 40,965 | 4.0% | 0.01 | 15 | \$1,508 | 83% | 0.57 |
| PECO | Ground Source Heat Pump (Closed Loop) | Mfg: Metals | HVAC | Early | heat pump | 40,965 | 1.3% | 0.12 | 15 | \$6,725 | 19% | 0.05 |
| PECO | Ground Source Heat Pump (Closed Loop) | Mfg: Metals | HVAC | New | heat pump | 40,965 | 1.0% | 0.09 | 15 | \$2,655 | 19% | 0.11 |
| PECO | Ground Source Heat Pump (Closed Loop) | Mfg: Metals | HVAC | ROB | heat pump | 40,965 | 1.0% | 0.09 | 15 | \$2,655 | 19% | 0.11 |
| PECO | Ground Source Heat Pump (Open Loop) | Mfg: Metals | HVAC | Early | heat pump | 40,965 | 1.3% | 0.12 | 15 | \$4,307 | 19% | 0.08 |
| PECO | Ground Source Heat Pump (Open Loop) | Mfg: Metals | HVAC | New | heat pump | 40,965 | 1.0% | 0.09 | 15 | \$91 | 19% | 2.37 |
| PECO | Ground Source Heat Pump (Open Loop) | Mfg: Metals | HVAC | ROB | heat pump | 40,965 | 1.0% | 0.09 | 15 | \$91 | 19% | 2.37 |
| PECO | HE Air Cooled Chiller, 100 Tons | Mfg: Metals | HVAC | Early | unit (ton) | 40,965 | 1.5% | 0.13 | 15 | \$47,653 | 89% | 0.01 |
| PECO | HE Air Cooled Chiller, 100 Tons | Mfg: Metals | HVAC | New | unit (ton) | 40,965 | 0.4% | 0.04 | 15 | \$6,942 | 89% | 0.02 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---|-------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | HE Air Cooled Chiller, 100 Tons | Mfg: Metals | HVAC | ROB | unit (ton) | 40,965 | 0.4% | 0.04 | 15 | \$6,942 | 89% | 0.02 |
| PECO | HE Air Cooled Chiller, 150 Tons | Mfg: Metals | HVAC | Early | unit (ton) | 40,965 | 1.4% | 0.13 | 15 | \$41,161 | 89% | 0.01 |
| PECO | HE Air Cooled Chiller, 150 Tons | Mfg: Metals | HVAC | New | unit (ton) | 40,965 | 0.3% | 0.03 | 15 | \$3,409 | 89% | 0.02 |
| PECO | HE Air Cooled Chiller, 150 Tons | Mfg: Metals | HVAC | ROB | unit (ton) | 40,965 | 0.3% | 0.03 | 15 | \$3,409 | 89% | 0.02 |
| PECO | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Metals | HVAC | Early | heat pump | 40,965 | 1.4% | 0.13 | 12 | \$1,755 | 81% | 0.18 |
| PECO | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Metals | HVAC | Early | heat pump | 40,965 | 1.1% | 0.10 | 12 | \$1,283 | 81% | 0.20 |
| PECO | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Metals | HVAC | New | heat pump | 40,965 | 1.0% | 0.09 | 12 | \$784 | 81% | 0.30 |
| PECO | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Metals | HVAC | New | heat pump | 40,965 | 0.8% | 0.07 | 12 | \$274 | 81% | 0.61 |
| PECO | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Metals | HVAC | ROB | heat pump | 40,965 | 1.0% | 0.09 | 12 | \$784 | 81% | 0.30 |
| PECO | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Metals | HVAC | ROB | heat pump | 40,965 | 0.8% | 0.07 | 12 | \$274 | 81% | 0.61 |
| PECO | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Metals | HVAC | Early | unit (ton) | 40,965 | 1.6% | 0.15 | 15 | \$3,781 | 89% | 0.12 |
| PECO | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Metals | HVAC | New | unit (ton) | 40,965 | 0.9% | 0.08 | 15 | \$1,258 | 89% | 0.20 |
| PECO | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Metals | HVAC | ROB | unit (ton) | 40,965 | 0.9% | 0.08 | 15 | \$1,258 | 89% | 0.20 |
| PECO | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Metals | HVAC | Early | unit (ton) | 40,965 | 1.4% | 0.13 | 15 | \$3,693 | 89% | 0.11 |
| PECO | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Metals | HVAC | New | unit (ton) | 40,965 | 1.0% | 0.09 | 15 | \$721 | 89% | 0.37 |
| PECO | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Metals | HVAC | ROB | unit (ton) | 40,965 | 1.4% | 0.13 | 15 | \$662 | 89% | 0.56 |
| PECO | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Metals | HVAC | Early | unit (ton) | 40,965 | 1.4% | 0.13 | 15 | \$4,371 | 89% | 0.09 |
| PECO | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Metals | HVAC | New | unit (ton) | 40,965 | 0.9% | 0.08 | 15 | \$1,840 | 89% | 0.13 |
| PECO | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Metals | HVAC | ROB | unit (ton) | 40,965 | 1.4% | 0.13 | 15 | \$1,665 | 89% | 0.23 |
| PECO | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Metals | HVAC | Early | unit (ton) | 40,965 | 1.4% | 0.13 | 15 | \$4,210 | 89% | 0.09 |
| PECO | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Metals | HVAC | New | unit (ton) | 40,965 | 0.9% | 0.08 | 15 | \$1,600 | 89% | 0.15 |
| PECO | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Metals | HVAC | ROB | unit (ton) | 40,965 | 1.4% | 0.13 | 15 | \$1,448 | 89% | 0.26 |
| PECO | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Metals | HVAC | Early | unit (ton) | 40,965 | 1.8% | 0.17 | 15 | \$4,536 | 89% | 0.11 |
| PECO | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Metals | HVAC | New | unit (ton) | 40,965 | 0.5% | 0.05 | 15 | \$2,809 | 89% | 0.05 |
| PECO | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Metals | HVAC | ROB | unit (ton) | 40,965 | 1.8% | 0.17 | 15 | \$2,181 | 89% | 0.23 |
| PECO | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Metals | HVAC | Early | unit (ton) | 40,965 | 2.1% | 0.20 | 15 | \$4,172 | 89% | 0.14 |
| PECO | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Metals | HVAC | New | unit (ton) | 40,965 | 0.8% | 0.07 | 15 | \$1,674 | 89% | 0.13 |
| PECO | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Metals | HVAC | ROB | unit (ton) | 40,965 | 0.8% | 0.07 | 15 | \$1,674 | 89% | 0.13 |
| PECO | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Metals | HVAC | Early | unit (ton) | 40,965 | 2.4% | 0.22 | 15 | \$3,536 | 89% | 0.19 |
| PECO | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Metals | HVAC | New | unit (ton) | 40,965 | 0.9% | 0.08 | 15 | \$890 | 89% | 0.28 |
| PECO | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Metals | HVAC | ROB | unit (ton) | 40,965 | 2.4% | 0.22 | 15 | \$634 | 89% | 0.96 |
| PECO | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Metals | HVAC | Early | unit (ton) | 40,965 | 1.8% | 0.17 | 15 | \$3,501 | 89% | 0.14 |
| PECO | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Metals | HVAC | New | unit (ton) | 40,965 | 0.7% | 0.06 | 15 | \$980 | 89% | 0.19 |
| PECO | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Metals | HVAC | ROB | unit (ton) | 40,965 | 1.8% | 0.17 | 15 | \$777 | 89% | 0.62 |
| PECO | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Metals | HVAC | Existing | building | 40,965 | 2.9% | 0.24 | 5 | \$435 | 55% | 0.60 |
| PECO | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Metals | HVAC | New | building | 40,965 | 0.6% | 0.10 | 5 | \$261 | 51% | 0.28 |
| PECO | Improved Controls - HVAC | Mfg: Metals | HVAC | Existing | end use | 40,965 | 21% | 1.23 | 10 | \$431 | 76% | 3.66 |
| PECO | Improved Controls - HVAC | Mfg: Metals | HVAC | New | end use | 40,965 | 22% | 1.23 | 10 | \$431 | 76% | 3.70 |
| PECO | Outside Air Economizer | Mfg: Metals | HVAC | Existing | building | 40,965 | 1.1% | 0.11 | 10 | \$150,512 | 82% | 0.00 |
| PECO | Outside Air Economizer | Mfg: Metals | HVAC | New | building | 40,965 | 1.1% | 0.11 | 10 | \$150,512 | 82% | 0.00 |
| PECO | Recommissioning | Mfg: Metals | HVAC | Existing | end use | 40,965 | 5.5% | 0.29 | 10 | \$56 | 88% | 4.54 |
| PECO | Recommissioning | Mfg: Metals | HVAC | New | end use | 40,965 | 5.3% | 0.29 | 10 | \$56 | 88% | 4.51 |
| PECO | Room AC (with louvered sides) | Mfg: Metals | HVAC | Early | unit (ton) | 40,965 | 7.7% | 0.71 | 9 | \$3,212 | 78% | 0.42 |
| PECO | Room AC (with louvered sides) | Mfg: Metals | HVAC | New | unit (ton) | 40,965 | 2.6% | 0.24 | 9 | \$176 | 78% | 1.94 |
| PECO | Room AC (with louvered sides) | Mfg: Metals | HVAC | ROB | unit (ton) | 40,965 | 2.6% | 0.24 | 9 | \$176 | 78% | 1.94 |
| PECO | Variable Refrigerant Flow Heat Pump | Mfg: Metals | HVAC | New | measure | 40,965 | 0.1% | 0.01 | 13 | \$302 | 43% | 0.10 |
| PECO | Variable Refrigerant Flow Heat Pump | Mfg: Metals | HVAC | ROB | measure | 40,965 | 0.1% | 0.01 | 13 | \$302 | 43% | 0.10 |
| PECO | VFD on Cooling Tower Fan | Mfg: Metals | HVAC | Early | motor | 40,965 | 21% | 2.58 | 15 | \$1,892 | 15% | 2.53 |
| PECO | VFD on Cooling Tower Fan | Mfg: Metals | HVAC | New | motor | 40,965 | 22% | 2.58 | 15 | \$1,928 | 15% | 2.52 |
| PECO | VFD on Cooling Tower Fan | Mfg: Metals | HVAC | ROB | motor | 40,965 | 22% | 2.58 | 15 | \$1,928 | 15% | 2.52 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---------------------------------------|-------------|----------|----------|-----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Wall Insualtions (Going upto R 21) | Mfg: Metals | HVAC | Existing | building | 40,965 | 19% | 1.96 | 15 | \$29,141 | 26% | 0.18 |
| PECO | Wall Insualtions (Going upto R 21) | Mfg: Metals | HVAC | New | building | 40,965 | 0.6% | 0.06 | 15 | \$22,352 | 94% | 0.01 |
| PECO | Water Source Heat Pump (4 ton) | Mfg: Metals | HVAC | Early | heat pump | 40,965 | 1.5% | 0.14 | 15 | \$6,964 | 28% | 0.06 |
| PECO | Water Source Heat Pump (4 ton) | Mfg: Metals | HVAC | New | heat pump | 40,965 | 1.1% | 0.10 | 15 | \$3,394 | 28% | 0.09 |
| PECO | Water Source Heat Pump (4 ton) | Mfg: Metals | HVAC | ROB | heat pump | 40,965 | 1.1% | 0.10 | 15 | \$3,394 | 28% | 0.09 |
| PECO | Efficient Metal Halide (High Bay) | Mfg: Metals | Lighting | Early | end use | 40,596 | 42% | 0.00 | 9 | \$6,344 | 53% | 0.83 |
| PECO | Efficient Metal Halide (High Bay) | Mfg: Metals | Lighting | New | end use | 40,596 | 41% | 0.00 | 13 | \$169,441 | 61% | 0.05 |
| PECO | Efficient Metal Halide (High Bay) | Mfg: Metals | Lighting | ROB | end use | 40,596 | 41% | 0.00 | 13 | \$129,496 | 61% | 0.06 |
| PECO | Induction (High Bay) | Mfg: Metals | Lighting | Early | end use | 40,596 | 94% | 0.00 | 13 | \$18,875 | 95% | 0.88 |
| PECO | Induction (High Bay) | Mfg: Metals | Lighting | New | end use | 40,596 | 94% | 0.00 | 13 | \$17,672 | 95% | 0.94 |
| PECO | Induction (High Bay) | Mfg: Metals | Lighting | ROB | end use | 40,596 | 94% | 0.00 | 13 | \$13,431 | 95% | 1.18 |
| PECO | LED (High Bay) | Mfg: Metals | Lighting | Early | end use | 40,596 | 69% | 0.00 | 14 | \$22,219 | 95% | 0.61 |
| PECO | LED (High Bay) | Mfg: Metals | Lighting | New | end use | 40,596 | 55% | 0.00 | 14 | \$24,662 | 95% | 0.45 |
| PECO | LED (High Bay) | Mfg: Metals | Lighting | ROB | end use | 40,596 | 59% | 0.00 | 14 | \$16,250 | 95% | 0.70 |
| PECO | Lighting Controls | Mfg: Metals | Lighting | Existing | end use | 40,596 | 20% | 0.00 | 6 | \$152,191 | 16% | 0.01 |
| PECO | Lighting Controls | Mfg: Metals | Lighting | New | end use | 40,596 | 12% | 0.00 | 10 | \$202,463 | 11% | 0.01 |
| PECO | Linear Fluorescent (High Bay) | Mfg: Metals | Lighting | Early | end use | 40,596 | 17% | 0.00 | 14 | \$4,645 | 98% | 0.70 |
| PECO | Linear Fluorescent (High Bay) | Mfg: Metals | Lighting | New | end use | 40,596 | 13% | 0.00 | 14 | \$1,473 | 91% | 1.48 |
| PECO | Linear Fluorescent (High Bay) | Mfg: Metals | Lighting | ROB | end use | 40,596 | 13% | 0.00 | 14 | \$943 | 91% | 2.13 |
| PECO | Metal Halide (High Bay) | Mfg: Metals | Lighting | Early | end use | 40,596 | 62% | 0.00 | 13 | \$27,907 | 38% | 0.42 |
| PECO | Metal Halide (High Bay) | Mfg: Metals | Lighting | New | end use | 40,596 | 73% | 0.00 | 13 | \$6,672 | 38% | 1.68 |
| PECO | Metal Halide (High Bay) | Mfg: Metals | Lighting | ROB | end use | 40,596 | 73% | 0.00 | 13 | \$5,071 | 38% | 2.06 |
| PECO | Screw Base CFL | Mfg: Metals | Lighting | Early | end use | 40,596 | 80% | 0.00 | 7 | \$11,029 | 17% | 0.69 |
| PECO | Screw Base CFL | Mfg: Metals | Lighting | New | end use | 40,596 | 73% | 0.00 | 9 | \$9,013 | 18% | 0.97 |
| PECO | Screw Base CFL | Mfg: Metals | Lighting | ROB | end use | 40,596 | 73% | 0.00 | 9 | \$7,544 | 17% | 1.12 |
| PECO | Screw Base LED | Mfg: Metals | Lighting | Early | end use | 40,596 | 76% | 0.00 | 9 | \$6,769 | 21% | 1.31 |
| PECO | Screw Base LED | Mfg: Metals | Lighting | New | end use | 40,596 | 77% | 0.00 | 9 | \$3,771 | 20% | 1.99 |
| PECO | Screw Base LED | Mfg: Metals | Lighting | ROB | end use | 40,596 | 77% | 0.00 | 9 | \$2,993 | 21% | 2.29 |
| PECO | T8 High Performance Linear Florescent | Mfg: Metals | Lighting | Early | end use | 40,596 | 36% | 0.00 | 14 | \$3,885 | 71% | 1.57 |
| PECO | T8 High Performance Linear Florescent | Mfg: Metals | Lighting | New | end use | 40,596 | 26% | 0.00 | 14 | \$1,390 | 76% | 2.64 |
| PECO | T8 High Performance Linear Florescent | Mfg: Metals | Lighting | ROB | end use | 40,596 | 26% | 0.00 | 14 | \$1,056 | 76% | 3.12 |
| PECO | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Metals | Motors | Early | end use | 22,202 | 0.9% | 0.03 | 15 | \$339 | 81% | 0.38 |
| PECO | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Metals | Motors | New | end use | 22,202 | 0.9% | 0.03 | 15 | \$339 | 81% | 0.38 |
| PECO | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Metals | Motors | ROB | end use | 22,202 | 0.9% | 0.03 | 15 | \$339 | 81% | 0.38 |
| PECO | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Metals | Motors | Early | end use | 22,202 | 0.7% | 0.02 | 15 | \$206 | 73% | 0.50 |
| PECO | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Metals | Motors | New | end use | 22,202 | 0.8% | 0.02 | 15 | \$206 | 73% | 0.50 |
| PECO | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Metals | Motors | ROB | end use | 22,202 | 0.8% | 0.02 | 15 | \$206 | 73% | 0.50 |
| PECO | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Metals | Motors | Early | end use | 22,202 | 0.5% | 0.01 | 15 | \$79 | 81% | 0.79 |
| PECO | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Metals | Motors | New | end use | 22,202 | 0.5% | 0.01 | 15 | \$79 | 81% | 0.79 |
| PECO | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Metals | Motors | ROB | end use | 22,202 | 0.5% | 0.01 | 15 | \$79 | 81% | 0.78 |
| PECO | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Metals | Motors | Early | end use | 22,202 | 0.4% | 0.01 | 15 | \$26 | 73% | 1.80 |
| PECO | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Metals | Motors | New | end use | 22,202 | 0.4% | 0.01 | 15 | \$26 | 73% | 1.81 |
| PECO | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Metals | Motors | ROB | end use | 22,202 | 0.4% | 0.01 | 15 | \$26 | 73% | 1.78 |
| PECO | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Metals | Motors | Early | end use | 22,202 | 0.9% | 0.03 | 15 | \$39 | 47% | 2.53 |
| PECO | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Metals | Motors | New | end use | 22,202 | 0.9% | 0.03 | 15 | \$39 | 47% | 2.50 |
| PECO | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Metals | Motors | ROB | end use | 22,202 | 0.9% | 0.03 | 15 | \$39 | 47% | 2.49 |
| PECO | Facility Energy Management | Mfg: Metals | Motors | Existing | end use | 22,202 | 4.0% | 0.06 | 2 | \$8.6 | 77% | 1.22 |
| PECO | Facility Energy Management | Mfg: Metals | Motors | New | end use | 22,202 | 4.1% | 0.06 | 2 | \$8.6 | 77% | 1.22 |
| PECO | HE Motors | Mfg: Metals | Motors | Early | end use | 22,202 | 2.0% | 0.06 | 15 | \$132 | 38% | 1.81 |
| PECO | HE Motors | Mfg: Metals | Motors | New | end use | 22,202 | 2.0% | 0.06 | 15 | \$132 | 38% | 1.81 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|--|-------------|------------------------|----------|---------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | HE Motors | Mfg: Metals | Motors | ROB | end use | 22,202 | 2.0% | 0.06 | 15 | \$132 | 38% | 1.81 |
| PECO | High-Efficiency Ventilation System | Mfg: Metals | Motors | Early | end use | 22,202 | 5.7% | 0.18 | 10 | \$1,387 | 73% | 0.41 |
| PECO | High-Efficiency Ventilation System | Mfg: Metals | Motors | New | end use | 22,202 | 5.7% | 0.18 | 10 | \$1,387 | 73% | 0.41 |
| PECO | High-Efficiency Ventilation System | Mfg: Metals | Motors | ROB | end use | 22,202 | 5.7% | 0.18 | 10 | \$1,387 | 73% | 0.41 |
| PECO | Improved Controls - Motors | Mfg: Metals | Motors | Existing | end use | 22,202 | 4.0% | 0.13 | 10 | \$96 | 73% | 2.65 |
| PECO | Improved Controls - Motors | Mfg: Metals | Motors | New | end use | 22,202 | 4.0% | 0.13 | 10 | \$96 | 73% | 2.65 |
| PECO | Motor Management Plan | Mfg: Metals | Motors | Existing | end use | 22,202 | 3.6% | 0.09 | 10 | \$45 | 73% | 3.66 |
| PECO | Motor Management Plan | Mfg: Metals | Motors | New | end use | 22,202 | 4.4% | 0.09 | 10 | \$45 | 73% | 3.92 |
| PECO | Motors Other | Mfg: Metals | Motors | Existing | end use | 22,202 | 1.1% | 0.03 | 15 | \$4.4 | 83% | 7.39 |
| PECO | Motors Other | Mfg: Metals | Motors | New | end use | 22,202 | 1.1% | 0.03 | 15 | \$4.4 | 83% | 7.39 |
| PECO | Motors: Rewind 101-200 HP | Mfg: Metals | Motors | Existing | end use | 22,202 | 2.0% | 0.02 | 10 | \$28 | 27% | 3.23 |
| PECO | Motors: Rewind 101-200 HP | Mfg: Metals | Motors | New | end use | 22,202 | 2.2% | 0.02 | 10 | \$28 | 27% | 3.37 |
| PECO | Motors: Rewind 201-500 HP | Mfg: Metals | Motors | Existing | end use | 22,202 | 1.7% | 0.02 | 8 | \$18 | 27% | 3.12 |
| PECO | Motors: Rewind 201-500 HP | Mfg: Metals | Motors | New | end use | 22,202 | 0.6% | 0.02 | 8 | \$18 | 27% | 2.00 |
| PECO | Motors: Rewind 20-50 HP | Mfg: Metals | Motors | Existing | end use | 22,202 | 2.6% | 0.03 | 11 | \$82 | 42% | 2.30 |
| PECO | Motors: Rewind 20-50 HP | Mfg: Metals | Motors | New | end use | 22,202 | 2.1% | 0.03 | 11 | \$82 | 42% | 2.01 |
| PECO | Motors: Rewind 500+ HP | Mfg: Metals | Motors | Existing | end use | 22,202 | 0.9% | 0.02 | 8 | \$13 | 11% | 2.76 |
| PECO | Motors: Rewind 500+ HP | Mfg: Metals | Motors | New | end use | 22,202 | 1.7% | 0.02 | 8 | \$13 | 11% | 3.46 |
| PECO | Motors: Rewind 51-100 HP | Mfg: Metals | Motors | Existing | end use | 22,202 | 1.7% | 0.02 | 9 | \$41 | 42% | 2.26 |
| PECO | Motors: Rewind 51-100 HP | Mfg: Metals | Motors | New | end use | 22,202 | 1.4% | 0.02 | 9 | \$41 | 42% | 2.02 |
| PECO | Switch from Belt drive to Direct Drive | Mfg: Metals | Motors | Early | end use | 22,202 | 7.5% | 0.24 | 12 | \$356 | 30% | 1.95 |
| PECO | Switch from Belt drive to Direct Drive | Mfg: Metals | Motors | New | end use | 22,202 | 7.5% | 0.24 | 12 | \$356 | 30% | 1.95 |
| PECO | Switch from Belt drive to Direct Drive | Mfg: Metals | Motors | ROB | end use | 22,202 | 7.5% | 0.24 | 12 | \$356 | 30% | 1.95 |
| PECO | Synchronous Belts | Mfg: Metals | Motors | Early | end use | 22,202 | 1.2% | 0.04 | 10 | \$33 | 30% | 2.42 |
| PECO | Synchronous Belts | Mfg: Metals | Motors | New | end use | 22,202 | 1.2% | 0.04 | 10 | \$33 | 30% | 2.42 |
| PECO | Synchronous Belts | Mfg: Metals | Motors | ROB | end use | 22,202 | 1.2% | 0.04 | 10 | \$33 | 30% | 2.42 |
| PECO | Bldg Improvements | Mfg: Metals | Other | Existing | end use | 14,318 | 16% | 0.28 | 15 | \$312 | 72% | 3.13 |
| PECO | Bldg Improvements | Mfg: Metals | Other | New | end use | 14,318 | 16% | 0.28 | 15 | \$312 | 72% | 3.13 |
| PECO | Energy Project Management | Mfg: Metals | Other | Existing | end use | 14,318 | 30% | 0.49 | 11 | \$511 | 63% | 2.65 |
| PECO | Energy Project Management | Mfg: Metals | Other | New | end use | 14,318 | 30% | 0.49 | 11 | \$511 | 63% | 2.68 |
| PECO | Facility Energy Management | Mfg: Metals | Other | Existing | end use | 14,318 | 5.4% | 0.03 | 2 | \$5.5 | 76% | 1.23 |
| PECO | Facility Energy Management | Mfg: Metals | Other | New | end use | 14,318 | 5.3% | 0.03 | 2 | \$5.5 | 76% | 1.22 |
| PECO | Integrated Plant Energy Management | Mfg: Metals | Other | Existing | end use | 14,318 | 50% | 0.85 | 11 | \$1,411 | 48% | 1.89 |
| PECO | Integrated Plant Energy Management | Mfg: Metals | Other | New | end use | 14,318 | 51% | 0.85 | 11 | \$1,411 | 48% | 1.91 |
| PECO | Plant Energy Management | Mfg: Metals | Other | Existing | end use | 14,318 | 12% | 0.20 | 10 | \$36 | 55% | 5.12 |
| PECO | Plant Energy Management | Mfg: Metals | Other | New | end use | 14,318 | 13% | 0.20 | 10 | \$36 | 55% | 5.18 |
| PECO | Transformers | Mfg: Metals | Other | Early | end use | 14,318 | 1.6% | 0.03 | 30 | \$46 | 34% | 3.56 |
| PECO | Transformers | Mfg: Metals | Other | New | end use | 14,318 | 1.6% | 0.03 | 30 | \$46 | 34% | 3.55 |
| PECO | Transformers | Mfg: Metals | Other | ROB | end use | 14,318 | 1.6% | 0.03 | 30 | \$46 | 34% | 3.55 |
| PECO | Air Compressor Demand Reduction | Mfg: Metals | Process Air Compressor | Existing | end use | 2,076 | 26% | 0.07 | 10 | \$31 | 40% | 3.67 |
| PECO | Air Compressor Demand Reduction | Mfg: Metals | Process Air Compressor | New | end use | 2,076 | 26% | 0.07 | 10 | \$31 | 40% | 3.67 |
| PECO | Air Compressor Equipment | Mfg: Metals | Process Air Compressor | Early | end use | 2,076 | 39% | 0.10 | 10 | \$38 | 56% | 3.81 |
| PECO | Air Compressor Equipment | Mfg: Metals | Process Air Compressor | New | end use | 2,076 | 39% | 0.10 | 10 | \$38 | 56% | 3.81 |
| PECO | Air Compressor Equipment | Mfg: Metals | Process Air Compressor | ROB | end use | 2,076 | 39% | 0.10 | 10 | \$38 | 56% | 3.81 |
| PECO | Air Compressor Optimization | Mfg: Metals | Process Air Compressor | Existing | end use | 2,076 | 39% | 0.11 | 10 | \$90 | 42% | 2.61 |
| PECO | Air Compressor Optimization | Mfg: Metals | Process Air Compressor | New | end use | 2,076 | 39% | 0.11 | 10 | \$90 | 42% | 2.61 |
| PECO | Facility Energy Management | Mfg: Metals | Process Air Compressor | Existing | end use | 2,076 | 7.4% | 0.00 | 2 | \$0.8 | 50% | 1.25 |
| PECO | Facility Energy Management | Mfg: Metals | Process Air Compressor | New | end use | 2,076 | 7.1% | 0.00 | 2 | \$0.8 | 50% | 1.24 |
| PECO | HE Compressor motors | Mfg: Metals | Process Air Compressor | Early | end use | 2,076 | 1.1% | 0.00 | 15 | \$7.8 | 56% | 1.48 |
| PECO | HE Compressor motors | Mfg: Metals | Process Air Compressor | New | end use | 2,076 | 1.1% | 0.00 | 15 | \$7.8 | 56% | 1.49 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---------------------------------------|-------------|------------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | HE Compressor motors | Mfg: Metals | Process Air Compressor | ROB | end use | 2,076 | 1.1% | 0.00 | 15 | \$7.8 | 56% | 1.48 |
| PECO | Improved Controls - Air Compressor | Mfg: Metals | Process Air Compressor | Existing | end use | 2,076 | 41% | 0.11 | 10 | \$37 | 19% | 4.13 |
| PECO | Improved Controls - Air Compressor | Mfg: Metals | Process Air Compressor | New | end use | 2,076 | 41% | 0.11 | 10 | \$37 | 19% | 4.13 |
| PECO | Low Pressure-drop Filters | Mfg: Metals | Process Air Compressor | Existing | end use | 2,076 | 2.1% | 0.00 | 10 | \$24 | 46% | 0.77 |
| PECO | Low Pressure-drop Filters | Mfg: Metals | Process Air Compressor | New | end use | 2,076 | 3.2% | 0.00 | 10 | \$24 | 46% | 1.07 |
| PECO | Outside Air Intake | Mfg: Metals | Process Air Compressor | Existing | end use | 2,076 | 1.4% | 0.00 | 10 | \$14 | 37% | 0.89 |
| PECO | Outside Air Intake | Mfg: Metals | Process Air Compressor | New | end use | 2,076 | 2.7% | 0.00 | 10 | \$14 | 37% | 1.44 |
| PECO | Receiver Capacity Addition | Mfg: Metals | Process Air Compressor | Existing | end use | 2,076 | 7.2% | 0.02 | 10 | \$39 | 28% | 1.41 |
| PECO | Receiver Capacity Addition | Mfg: Metals | Process Air Compressor | New | end use | 2,076 | 7.1% | 0.02 | 10 | \$39 | 28% | 1.40 |
| PECO | Refrigerated Cycling Dryers | Mfg: Metals | Process Air Compressor | Early | end use | 2,076 | 1.7% | 0.00 | 10 | \$4.8 | 16% | 2.15 |
| PECO | Refrigerated Cycling Dryers | Mfg: Metals | Process Air Compressor | New | end use | 2,076 | 1.7% | 0.00 | 10 | \$4.8 | 16% | 2.14 |
| PECO | Refrigerated Cycling Dryers | Mfg: Metals | Process Air Compressor | ROB | end use | 2,076 | 1.7% | 0.00 | 10 | \$4.8 | 16% | 2.15 |
| PECO | VFD Controlled Compressor | Mfg: Metals | Process Air Compressor | Early | end use | 2,076 | 24% | 0.06 | 10 | \$204 | 22% | 0.92 |
| PECO | VFD Controlled Compressor | Mfg: Metals | Process Air Compressor | New | end use | 2,076 | 24% | 0.06 | 10 | \$204 | 22% | 0.92 |
| PECO | VFD Controlled Compressor | Mfg: Metals | Process Air Compressor | ROB | end use | 2,076 | 24% | 0.06 | 10 | \$204 | 22% | 0.92 |
| PECO | Zero Loss Condensate Drain | Mfg: Metals | Process Air Compressor | Early | end use | 2,076 | 1.8% | 0.00 | 10 | \$12 | 28% | 1.17 |
| PECO | Zero Loss Condensate Drain | Mfg: Metals | Process Air Compressor | New | end use | 2,076 | 1.8% | 0.00 | 10 | \$12 | 28% | 1.17 |
| PECO | Zero Loss Condensate Drain | Mfg: Metals | Process Air Compressor | ROB | end use | 2,076 | 1.9% | 0.00 | 10 | \$12 | 28% | 1.18 |
| PECO | Cooling Tower Optimization | Mfg: Metals | Process Cooling | Existing | building | 6,804 | 20% | 0.49 | 10 | \$42 | 15% | 5.57 |
| PECO | Equipment: Chillers | Mfg: Metals | Process Cooling | Early | end use | 6,804 | 18% | 0.25 | 20 | \$319 | 39% | 2.37 |
| PECO | Equipment: Chillers | Mfg: Metals | Process Cooling | New | end use | 6,804 | 18% | 0.25 | 20 | \$319 | 39% | 2.37 |
| PECO | Equipment: Chillers | Mfg: Metals | Process Cooling | ROB | end use | 6,804 | 18% | 0.25 | 20 | \$319 | 39% | 2.37 |
| PECO | Facility Energy Management | Mfg: Metals | Process Cooling | Existing | end use | 6,804 | 8.9% | 0.03 | 2 | \$2.6 | 50% | 1.27 |
| PECO | Facility Energy Management | Mfg: Metals | Process Cooling | New | end use | 6,804 | 8.8% | 0.03 | 2 | \$2.6 | 50% | 1.27 |
| PECO | Improved Controls - Process Cooling | Mfg: Metals | Process Cooling | Existing | end use | 6,804 | 7.0% | 0.09 | 10 | \$359 | 47% | 0.60 |
| PECO | Improved Controls - Process Cooling | Mfg: Metals | Process Cooling | New | end use | 6,804 | 6.9% | 0.09 | 10 | \$359 | 47% | 0.59 |
| PECO | VFD on Cooling Tower Fan | Mfg: Metals | Process Cooling | Early | motor | 6,804 | 21% | 0.43 | 15 | \$452 | 20% | 1.93 |
| PECO | VFD on Cooling Tower Fan | Mfg: Metals | Process Cooling | New | motor | 6,804 | 22% | 0.43 | 15 | \$460 | 20% | 1.92 |
| PECO | VFD on Cooling Tower Fan | Mfg: Metals | Process Cooling | ROB | motor | 6,804 | 22% | 0.43 | 15 | \$460 | 20% | 1.92 |
| PECO | Improved Controls - Process Heating | Mfg: Metals | Process Heating | Existing | end use | 260,562 | 17% | 6.12 | 10 | \$2,994 | 89% | 3.46 |
| PECO | Improved Controls - Process Heating | Mfg: Metals | Process Heating | New | end use | 260,562 | 17% | 6.12 | 10 | \$2,994 | 89% | 3.46 |
| PECO | Metal: New Arc Furnace | Mfg: Metals | Process Heating | Early | end use | 260,562 | 45% | 16.02 | 10 | \$10,826 | 8% | 2.76 |
| PECO | Metal: New Arc Furnace | Mfg: Metals | Process Heating | New | end use | 260,562 | 45% | 16.02 | 10 | \$10,826 | 8% | 2.76 |
| PECO | Metal: New Arc Furnace | Mfg: Metals | Process Heating | ROB | end use | 260,562 | 45% | 16.02 | 10 | \$10,826 | 8% | 2.76 |
| PECO | Process Heat O&M | Mfg: Metals | Process Heating | Existing | end use | 260,562 | 16% | 5.79 | 2 | \$1,809 | 89% | 0.92 |
| PECO | Process Heat O&M | Mfg: Metals | Process Heating | New | end use | 260,562 | 16% | 5.79 | 2 | \$1,809 | 89% | 0.92 |
| PECO | Facility Energy Management | Mfg: Metals | Process Other | Existing | end use | 125,053 | 11% | 0.32 | 2 | \$48 | 73% | 1.26 |
| PECO | Facility Energy Management | Mfg: Metals | Process Other | New | end use | 125,053 | 10% | 0.32 | 2 | \$48 | 73% | 1.26 |
| PECO | Adjustable speed drive on compressors | Mfg: Metals | Process Refrigeration | Early | end use | 3,495 | 12% | 0.06 | 10 | \$65 | 30% | 1.92 |
| PECO | Adjustable speed drive on compressors | Mfg: Metals | Process Refrigeration | New | end use | 3,495 | 12% | 0.06 | 10 | \$65 | 30% | 1.92 |
| PECO | Adjustable speed drive on compressors | Mfg: Metals | Process Refrigeration | ROB | end use | 3,495 | 12% | 0.06 | 10 | \$65 | 30% | 1.92 |
| PECO | Cooling Tower Optimization | Mfg: Metals | Process Refrigeration | Existing | building | 3,495 | 20% | 0.25 | 10 | \$21 | 15% | 5.57 |
| PECO | Optimization of operating parameters | Mfg: Metals | Process Refrigeration | Existing | end use | 3,495 | 14% | 0.07 | 3 | \$28 | 27% | 1.12 |
| PECO | Optimization of operating parameters | Mfg: Metals | Process Refrigeration | New | end use | 3,495 | 14% | 0.07 | 3 | \$28 | 27% | 1.10 |
| PECO | Synchronous Belts | Mfg: Metals | Process Refrigeration | Early | end use | 3,495 | 1.2% | 0.01 | 10 | \$5.2 | 30% | 2.23 |
| PECO | Synchronous Belts | Mfg: Metals | Process Refrigeration | New | end use | 3,495 | 1.2% | 0.01 | 10 | \$5.2 | 30% | 2.23 |
| PECO | Synchronous Belts | Mfg: Metals | Process Refrigeration | ROB | end use | 3,495 | 1.2% | 0.01 | 10 | \$5.2 | 30% | 2.23 |
| PECO | VFD on Cooling Tower Fan | Mfg: Metals | Process Refrigeration | Early | motor | 3,495 | 21% | 0.22 | 15 | \$232 | 20% | 1.93 |
| PECO | VFD on Cooling Tower Fan | Mfg: Metals | Process Refrigeration | New | motor | 3,495 | 22% | 0.22 | 15 | \$237 | 20% | 1.92 |
| PECO | VFD on Cooling Tower Fan | Mfg: Metals | Process Refrigeration | ROB | motor | 3,495 | 22% | 0.22 | 15 | \$237 | 20% | 1.92 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|--|-------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Facility Energy Management | Mfg: Metals | Pumps | Existing | end use | 124,456 | 12% | 0.30 | 2 | \$48 | 69% | 1.20 |
| PECO | Facility Energy Management | Mfg: Metals | Pumps | New | end use | 124,456 | 13% | 0.30 | 2 | \$48 | 69% | 1.20 |
| PECO | HE Motors | Mfg: Metals | Pumps | Early | end use | 124,456 | 2.0% | 0.33 | 15 | \$741 | 73% | 1.70 |
| PECO | HE Motors | Mfg: Metals | Pumps | New | end use | 124,456 | 2.0% | 0.33 | 15 | \$741 | 73% | 1.70 |
| PECO | HE Motors | Mfg: Metals | Pumps | ROB | end use | 124,456 | 2.0% | 0.33 | 15 | \$741 | 73% | 1.70 |
| PECO | Motor rewinds | Mfg: Metals | Pumps | Existing | end use | 124,456 | 1.4% | 0.10 | 9 | \$177 | 11% | 2.22 |
| PECO | Motor rewinds | Mfg: Metals | Pumps | New | end use | 124,456 | 1.6% | 0.10 | 9 | \$177 | 11% | 2.39 |
| PECO | Synchronous Belts | Mfg: Metals | Pumps | Early | end use | 124,456 | 1.2% | 0.19 | 10 | \$183 | 61% | 2.28 |
| PECO | Synchronous Belts | Mfg: Metals | Pumps | New | end use | 124,456 | 1.2% | 0.19 | 10 | \$183 | 61% | 2.28 |
| PECO | Synchronous Belts | Mfg: Metals | Pumps | ROB | end use | 124,456 | 1.2% | 0.19 | 10 | \$183 | 61% | 2.28 |
| PECO | Circulating Fans | Mfg: Other | Fans | Early | end use | 73,553 | 5.0% | 0.44 | 10 | \$448 | 68% | 2.32 |
| PECO | Circulating Fans | Mfg: Other | Fans | New | end use | 73,553 | 5.0% | 0.44 | 10 | \$448 | 68% | 2.31 |
| PECO | Circulating Fans | Mfg: Other | Fans | ROB | end use | 73,553 | 5.0% | 0.44 | 10 | \$448 | 68% | 2.31 |
| PECO | Facility Energy Management | Mfg: Other | Fans | Existing | end use | 73,553 | 2.0% | 0.16 | 2 | \$28 | 77% | 1.08 |
| PECO | Facility Energy Management | Mfg: Other | Fans | New | end use | 73,553 | 2.3% | 0.16 | 2 | \$28 | 77% | 1.10 |
| PECO | Fan Equipment Upgrade | Mfg: Other | Fans | Early | end use | 73,553 | 35% | 3.06 | 10 | \$2,207 | 68% | 2.84 |
| PECO | Fan Equipment Upgrade | Mfg: Other | Fans | New | end use | 73,553 | 35% | 3.06 | 10 | \$2,207 | 68% | 2.84 |
| PECO | Fan Equipment Upgrade | Mfg: Other | Fans | ROB | end use | 73,553 | 35% | 3.06 | 10 | \$2,207 | 68% | 2.84 |
| PECO | Fan System Optimization | Mfg: Other | Fans | Existing | end use | 73,553 | 7.1% | 0.61 | 10 | \$861 | 83% | 1.88 |
| PECO | Fan System Optimization | Mfg: Other | Fans | New | end use | 73,553 | 7.0% | 0.61 | 10 | \$861 | 83% | 1.86 |
| PECO | HE Motors | Mfg: Other | Fans | Early | end use | 73,553 | 2.0% | 0.18 | 15 | \$438 | 77% | 1.68 |
| PECO | HE Motors | Mfg: Other | Fans | New | end use | 73,553 | 2.0% | 0.18 | 15 | \$438 | 77% | 1.68 |
| PECO | HE Motors | Mfg: Other | Fans | ROB | end use | 73,553 | 2.0% | 0.18 | 15 | \$438 | 77% | 1.68 |
| PECO | Improved Controls - Fans | Mfg: Other | Fans | Existing | end use | 73,553 | 7.1% | 0.62 | 10 | \$285 | 88% | 3.55 |
| PECO | Improved Controls - Fans | Mfg: Other | Fans | New | end use | 73,553 | 7.1% | 0.62 | 10 | \$285 | 88% | 3.55 |
| PECO | Properly Sized Fans | Mfg: Other | Fans | Early | end use | 73,553 | 13% | 1.15 | 10 | \$1,506 | 41% | 1.96 |
| PECO | Properly Sized Fans | Mfg: Other | Fans | New | end use | 73,553 | 13% | 1.15 | 10 | \$1,506 | 41% | 1.96 |
| PECO | Properly Sized Fans | Mfg: Other | Fans | ROB | end use | 73,553 | 13% | 1.15 | 10 | \$1,506 | 41% | 1.96 |
| PECO | Synchronous Belts | Mfg: Other | Fans | Early | end use | 73,553 | 1.2% | 0.10 | 10 | \$108 | 41% | 2.25 |
| PECO | Synchronous Belts | Mfg: Other | Fans | New | end use | 73,553 | 1.2% | 0.10 | 10 | \$108 | 41% | 2.25 |
| PECO | Synchronous Belts | Mfg: Other | Fans | ROB | end use | 73,553 | 1.2% | 0.10 | 10 | \$108 | 41% | 2.25 |
| PECO | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Other | HVAC | Early | unit (ton) | 148,457 | 9.2% | 3.53 | 15 | \$27,055 | 28% | 0.34 |
| PECO | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Other | HVAC | New | unit (ton) | 148,457 | 4.1% | 1.59 | 15 | \$6,555 | 28% | 0.62 |
| PECO | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Other | HVAC | ROB | unit (ton) | 148,457 | 4.1% | 1.59 | 15 | \$6,555 | 28% | 0.62 |
| PECO | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Other | HVAC | Early | unit (ton) | 148,457 | 12% | 4.78 | 15 | \$31,895 | 28% | 0.39 |
| PECO | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Other | HVAC | New | unit (ton) | 148,457 | 7.7% | 2.96 | 15 | \$13,806 | 28% | 0.55 |
| PECO | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Other | HVAC | ROB | unit (ton) | 148,457 | 7.7% | 2.96 | 15 | \$13,806 | 28% | 0.55 |
| PECO | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Other | HVAC | Early | unit (ton) | 148,457 | 15% | 5.87 | 15 | \$36,736 | 29% | 0.42 |
| PECO | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Other | HVAC | New | unit (ton) | 148,457 | 11% | 4.17 | 15 | \$21,057 | 29% | 0.51 |
| PECO | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Other | HVAC | ROB | unit (ton) | 148,457 | 11% | 4.17 | 15 | \$21,057 | 29% | 0.51 |
| PECO | >760k min 10.2 EER Air Conditioner | Mfg: Other | HVAC | Early | unit (ton) | 148,457 | 2.1% | 0.82 | 15 | \$47,115 | 35% | 0.05 |
| PECO | >760k min 10.2 EER Air Conditioner | Mfg: Other | HVAC | New | unit (ton) | 148,457 | 2.8% | 1.09 | 15 | \$4,258 | 35% | 0.65 |
| PECO | >760k min 10.2 EER Air Conditioner | Mfg: Other | HVAC | ROB | unit (ton) | 148,457 | 2.8% | 1.09 | 15 | \$4,258 | 35% | 0.65 |
| PECO | 135-240k min 12 EER Air Conditioner | Mfg: Other | HVAC | Early | unit (ton) | 148,457 | 10% | 4.03 | 15 | \$51,018 | 35% | 0.21 |
| PECO | 135-240k min 12 EER Air Conditioner | Mfg: Other | HVAC | New | unit (ton) | 148,457 | 5.8% | 2.22 | 15 | \$6,024 | 35% | 0.91 |
| PECO | 135-240k min 12 EER Air Conditioner | Mfg: Other | HVAC | ROB | unit (ton) | 148,457 | 5.8% | 2.22 | 15 | \$6,024 | 35% | 0.91 |
| PECO | 240k-760k min 11 EER Air Conditioner | Mfg: Other | HVAC | Early | unit (ton) | 148,457 | 5.2% | 2.01 | 15 | \$47,145 | 35% | 0.11 |
| PECO | 240k-760k min 11 EER Air Conditioner | Mfg: Other | HVAC | New | unit (ton) | 148,457 | 5.3% | 2.06 | 15 | \$5,051 | 35% | 1.00 |
| PECO | 240k-760k min 11 EER Air Conditioner | Mfg: Other | HVAC | ROB | unit (ton) | 148,457 | 5.3% | 2.06 | 15 | \$5,051 | 35% | 1.00 |
| PECO | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Other | HVAC | Early | unit (ton) | 148,457 | 9.7% | 3.74 | 15 | \$52,238 | 35% | 0.19 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---|------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Other | HVAC | New | unit (ton) | 148,457 | 3.8% | 1.48 | 15 | \$7,453 | 35% | 0.51 |
| PECO | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Other | HVAC | ROB | unit (ton) | 148,457 | 3.8% | 1.48 | 15 | \$7,453 | 35% | 0.51 |
| PECO | Ceiling Insualtions (Going upto R 20) | Mfg: Other | HVAC | Existing | building | 148,457 | 5.9% | 2.20 | 15 | \$449,800 | 71% | 0.01 |
| PECO | Ceiling Insualtions (Going upto R 20) | Mfg: Other | HVAC | New | building | 148,457 | 3.7% | 1.38 | 15 | \$427,548 | 94% | 0.01 |
| PECO | Chiller Tuneup/Diagnostics | Mfg: Other | HVAC | Existing | building | 148,457 | 8.0% | 4.35 | 10 | \$379,076 | 59% | 0.02 |
| PECO | Chiller Tuneup/Diagnostics | Mfg: Other | HVAC | New | building | 148,457 | 8.0% | 4.36 | 10 | \$379,076 | 59% | 0.02 |
| PECO | Cooling Tower Optimization | Mfg: Other | HVAC | Existing | building | 148,457 | 20% | 10.63 | 10 | \$910 | 12% | 5.50 |
| PECO | Duct Insulation, Add R8 | Mfg: Other | HVAC | Existing | building | 148,457 | 1.5% | 0.48 | 15 | \$1,179 | 18% | 1.16 |
| PECO | Duct Insulation, Add R8 | Mfg: Other | HVAC | New | building | 148,457 | 1.5% | 0.48 | 15 | \$1,179 | 9% | 1.16 |
| PECO | Ductless Heat Pump | Mfg: Other | HVAC | Early | heat pump | 148,457 | 0.8% | 0.28 | 15 | \$11,737 | 83% | 0.07 |
| PECO | Ductless Heat Pump | Mfg: Other | HVAC | New | heat pump | 148,457 | 0.4% | 0.15 | 15 | \$3,408 | 83% | 0.13 |
| PECO | Ductless Heat Pump | Mfg: Other | HVAC | ROB | heat pump | 148,457 | 0.4% | 0.15 | 15 | \$3,408 | 83% | 0.13 |
| PECO | DX Coil Cleaning | Mfg: Other | HVAC | Existing | building | 148,457 | 13% | 6.81 | 1 | \$1,423 | 73% | 0.46 |
| PECO | DX Coil Cleaning | Mfg: Other | HVAC | New | building | 148,457 | 13% | 6.81 | 1 | \$1,423 | 73% | 0.46 |
| PECO | Efficient Unit Heating System | Mfg: Other | HVAC | Early | heater | 148,457 | 6.9% | 0.09 | 15 | \$8,014 | 83% | 0.67 |
| PECO | Efficient Unit Heating System | Mfg: Other | HVAC | New | heater | 148,457 | 4.0% | 0.05 | 15 | \$5,467 | 83% | 0.57 |
| PECO | Efficient Unit Heating System | Mfg: Other | HVAC | ROB | heater | 148,457 | 4.0% | 0.05 | 15 | \$5,467 | 83% | 0.57 |
| PECO | Ground Source Heat Pump (Closed Loop) | Mfg: Other | HVAC | Early | heat pump | 148,457 | 1.3% | 0.43 | 15 | \$24,371 | 19% | 0.05 |
| PECO | Ground Source Heat Pump (Closed Loop) | Mfg: Other | HVAC | New | heat pump | 148,457 | 1.0% | 0.34 | 15 | \$9,622 | 19% | 0.11 |
| PECO | Ground Source Heat Pump (Closed Loop) | Mfg: Other | HVAC | ROB | heat pump | 148,457 | 1.0% | 0.34 | 15 | \$9,622 | 19% | 0.11 |
| PECO | Ground Source Heat Pump (Open Loop) | Mfg: Other | HVAC | Early | heat pump | 148,457 | 1.3% | 0.43 | 15 | \$15,608 | 19% | 0.08 |
| PECO | Ground Source Heat Pump (Open Loop) | Mfg: Other | HVAC | New | heat pump | 148,457 | 1.0% | 0.34 | 15 | \$331 | 19% | 2.37 |
| PECO | Ground Source Heat Pump (Open Loop) | Mfg: Other | HVAC | ROB | heat pump | 148,457 | 1.0% | 0.34 | 15 | \$331 | 19% | 2.37 |
| PECO | HE Air Cooled Chiller, 100 Tons | Mfg: Other | HVAC | Early | unit (ton) | 148,457 | 1.5% | 0.49 | 15 | \$172,694 | 89% | 0.01 |
| PECO | HE Air Cooled Chiller, 100 Tons | Mfg: Other | HVAC | New | unit (ton) | 148,457 | 0.4% | 0.14 | 15 | \$25,158 | 89% | 0.02 |
| PECO | HE Air Cooled Chiller, 100 Tons | Mfg: Other | HVAC | ROB | unit (ton) | 148,457 | 0.4% | 0.14 | 15 | \$25,158 | 89% | 0.02 |
| PECO | HE Air Cooled Chiller, 150 Tons | Mfg: Other | HVAC | Early | unit (ton) | 148,457 | 1.4% | 0.48 | 15 | \$149,169 | 89% | 0.01 |
| PECO | HE Air Cooled Chiller, 150 Tons | Mfg: Other | HVAC | New | unit (ton) | 148,457 | 0.3% | 0.10 | 15 | \$12,355 | 89% | 0.02 |
| PECO | HE Air Cooled Chiller, 150 Tons | Mfg: Other | HVAC | ROB | unit (ton) | 148,457 | 0.3% | 0.10 | 15 | \$12,355 | 89% | 0.02 |
| PECO | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Other | HVAC | Early | heat pump | 148,457 | 1.4% | 0.46 | 12 | \$6,362 | 81% | 0.18 |
| PECO | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Other | HVAC | Early | heat pump | 148,457 | 1.1% | 0.38 | 12 | \$4,648 | 81% | 0.20 |
| PECO | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Other | HVAC | New | heat pump | 148,457 | 1.0% | 0.34 | 12 | \$2,840 | 81% | 0.30 |
| PECO | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Other | HVAC | New | heat pump | 148,457 | 0.8% | 0.25 | 12 | \$993 | 81% | 0.61 |
| PECO | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Other | HVAC | ROB | heat pump | 148,457 | 1.0% | 0.34 | 12 | \$2,840 | 81% | 0.30 |
| PECO | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Other | HVAC | ROB | heat pump | 148,457 | 0.8% | 0.25 | 12 | \$993 | 81% | 0.61 |
| PECO | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Other | HVAC | Early | unit (ton) | 148,457 | 1.6% | 0.53 | 15 | \$13,702 | 89% | 0.12 |
| PECO | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Other | HVAC | New | unit (ton) | 148,457 | 0.9% | 0.31 | 15 | \$4,557 | 89% | 0.20 |
| PECO | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Other | HVAC | ROB | unit (ton) | 148,457 | 0.9% | 0.31 | 15 | \$4,557 | 89% | 0.20 |
| PECO | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Other | HVAC | Early | unit (ton) | 148,457 | 1.4% | 0.47 | 15 | \$13,382 | 89% | 0.11 |
| PECO | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Other | HVAC | New | unit (ton) | 148,457 | 1.0% | 0.33 | 15 | \$2,613 | 89% | 0.37 |
| PECO | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Other | HVAC | ROB | unit (ton) | 148,457 | 1.4% | 0.47 | 15 | \$2,401 | 89% | 0.56 |
| PECO | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Other | HVAC | Early | unit (ton) | 148,457 | 1.4% | 0.46 | 15 | \$15,839 | 89% | 0.09 |
| PECO | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Other | HVAC | New | unit (ton) | 148,457 | 0.9% | 0.30 | 15 | \$6,669 | 89% | 0.13 |
| PECO | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Other | HVAC | ROB | unit (ton) | 148,457 | 1.4% | 0.46 | 15 | \$6,036 | 89% | 0.23 |
| PECO | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Other | HVAC | Early | unit (ton) | 148,457 | 1.4% | 0.46 | 15 | \$15,257 | 89% | 0.09 |
| PECO | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Other | HVAC | New | unit (ton) | 148,457 | 0.9% | 0.30 | 15 | \$5,797 | 89% | 0.15 |
| PECO | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Other | HVAC | ROB | unit (ton) | 148,457 | 1.4% | 0.46 | 15 | \$5,246 | 89% | 0.26 |
| PECO | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Other | HVAC | Early | unit (ton) | 148,457 | 1.8% | 0.60 | 15 | \$16,440 | 89% | 0.11 |
| PECO | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Other | HVAC | New | unit (ton) | 148,457 | 0.5% | 0.18 | 15 | \$10,180 | 89% | 0.05 |
| PECO | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Other | HVAC | ROB | unit (ton) | 148,457 | 1.8% | 0.60 | 15 | \$7,904 | 89% | 0.23 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---|------------|----------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Other | HVAC | Early | unit (ton) | 148,457 | 2.1% | 0.71 | 15 | \$15,121 | 89% | 0.14 |
| PECO | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Other | HVAC | New | unit (ton) | 148,457 | 0.8% | 0.26 | 15 | \$6,068 | 89% | 0.13 |
| PECO | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Other | HVAC | ROB | unit (ton) | 148,457 | 0.8% | 0.26 | 15 | \$6,068 | 89% | 0.13 |
| PECO | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Other | HVAC | Early | unit (ton) | 148,457 | 2.4% | 0.80 | 15 | \$12,816 | 89% | 0.19 |
| PECO | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Other | HVAC | New | unit (ton) | 148,457 | 0.9% | 0.30 | 15 | \$3,225 | 89% | 0.28 |
| PECO | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Other | HVAC | ROB | unit (ton) | 148,457 | 2.4% | 0.80 | 15 | \$2,299 | 89% | 0.96 |
| PECO | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Other | HVAC | Early | unit (ton) | 148,457 | 1.8% | 0.61 | 15 | \$12,687 | 89% | 0.14 |
| PECO | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Other | HVAC | New | unit (ton) | 148,457 | 0.7% | 0.23 | 15 | \$3,553 | 89% | 0.19 |
| PECO | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Other | HVAC | ROB | unit (ton) | 148,457 | 1.8% | 0.61 | 15 | \$2,815 | 89% | 0.62 |
| PECO | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Other | HVAC | Existing | building | 148,457 | 2.9% | 0.87 | 5 | \$1,575 | 55% | 0.60 |
| PECO | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Other | HVAC | New | building | 148,457 | 0.6% | 0.35 | 5 | \$945 | 51% | 0.28 |
| PECO | Improved Controls - HVAC | Mfg: Other | HVAC | Existing | end use | 148,457 | 21% | 4.45 | 10 | \$1,561 | 76% | 3.65 |
| PECO | Improved Controls - HVAC | Mfg: Other | HVAC | New | end use | 148,457 | 22% | 4.45 | 10 | \$1,561 | 76% | 3.66 |
| PECO | Outside Air Economizer | Mfg: Other | HVAC | Existing | building | 148,457 | 1.1% | 0.42 | 10 | \$545,458 | 82% | 0.00 |
| PECO | Outside Air Economizer | Mfg: Other | HVAC | New | building | 148,457 | 1.1% | 0.42 | 10 | \$545,458 | 82% | 0.00 |
| PECO | Recommissioning | Mfg: Other | HVAC | Existing | end use | 148,457 | 6.2% | 1.07 | 10 | \$204 | 88% | 4.61 |
| PECO | Recommissioning | Mfg: Other | HVAC | New | end use | 148,457 | 5.2% | 1.07 | 10 | \$204 | 88% | 4.50 |
| PECO | Room AC (with louvered sides) | Mfg: Other | HVAC | Early | unit (ton) | 148,457 | 7.7% | 2.58 | 9 | \$11,641 | 78% | 0.42 |
| PECO | Room AC (with louvered sides) | Mfg: Other | HVAC | New | unit (ton) | 148,457 | 2.6% | 0.86 | 9 | \$637 | 78% | 1.94 |
| PECO | Room AC (with louvered sides) | Mfg: Other | HVAC | ROB | unit (ton) | 148,457 | 2.6% | 0.86 | 9 | \$637 | 78% | 1.94 |
| PECO | Variable Refrigerant Flow Heat Pump | Mfg: Other | HVAC | New | measure | 148,457 | 0.1% | 0.04 | 13 | \$1,093 | 43% | 0.10 |
| PECO | Variable Refrigerant Flow Heat Pump | Mfg: Other | HVAC | ROB | measure | 148,457 | 0.1% | 0.04 | 13 | \$1,093 | 43% | 0.10 |
| PECO | VFD on Cooling Tower Fan | Mfg: Other | HVAC | Early | motor | 148,457 | 21% | 9.36 | 15 | \$6,855 | 15% | 2.53 |
| PECO | VFD on Cooling Tower Fan | Mfg: Other | HVAC | New | motor | 148,457 | 22% | 9.36 | 15 | \$6,986 | 15% | 2.52 |
| PECO | VFD on Cooling Tower Fan | Mfg: Other | HVAC | ROB | motor | 148,457 | 22% | 9.36 | 15 | \$6,986 | 15% | 2.52 |
| PECO | Wall Insualtions (Going upto R 21) | Mfg: Other | HVAC | Existing | building | 148,457 | 19% | 7.10 | 15 | \$105,607 | 26% | 0.18 |
| PECO | Wall Insualtions (Going upto R 21) | Mfg: Other | HVAC | New | building | 148,457 | 0.6% | 0.23 | 15 | \$81,006 | 94% | 0.01 |
| PECO | Water Source Heat Pump (4 ton) | Mfg: Other | HVAC | Early | heat pump | 148,457 | 1.5% | 0.51 | 15 | \$25,237 | 28% | 0.06 |
| PECO | Water Source Heat Pump (4 ton) | Mfg: Other | HVAC | New | heat pump | 148,457 | 1.1% | 0.38 | 15 | \$12,300 | 28% | 0.09 |
| PECO | Water Source Heat Pump (4 ton) | Mfg: Other | HVAC | ROB | heat pump | 148,457 | 1.1% | 0.38 | 15 | \$12,300 | 28% | 0.09 |
| PECO | Efficient Metal Halide (High Bay) | Mfg: Other | Lighting | Early | end use | 105,376 | 42% | 0.00 | 9 | \$16,466 | 53% | 0.83 |
| PECO | Efficient Metal Halide (High Bay) | Mfg: Other | Lighting | New | end use | 105,376 | 41% | 0.00 | 13 | \$439,820 | 61% | 0.05 |
| PECO | Efficient Metal Halide (High Bay) | Mfg: Other | Lighting | ROB | end use | 105,376 | 41% | 0.00 | 13 | \$336,135 | 61% | 0.06 |
| PECO | Induction (High Bay) | Mfg: Other | Lighting | Early | end use | 105,376 | 94% | 0.00 | 13 | \$48,994 | 95% | 0.88 |
| PECO | Induction (High Bay) | Mfg: Other | Lighting | New | end use | 105,376 | 94% | 0.00 | 13 | \$45,871 | 95% | 0.94 |
| PECO | Induction (High Bay) | Mfg: Other | Lighting | ROB | end use | 105,376 | 94% | 0.00 | 13 | \$34,863 | 95% | 1.18 |
| PECO | LED (High Bay) | Mfg: Other | Lighting | Early | end use | 105,376 | 69% | 0.00 | 14 | \$57,673 | 95% | 0.61 |
| PECO | LED (High Bay) | Mfg: Other | Lighting | New | end use | 105,376 | 55% | 0.00 | 14 | \$64,016 | 95% | 0.45 |
| PECO | LED (High Bay) | Mfg: Other | Lighting | ROB | end use | 105,376 | 59% | 0.00 | 14 | \$42,179 | 95% | 0.70 |
| PECO | Lighting Controls | Mfg: Other | Lighting | Existing | end use | 105,376 | 20% | 0.00 | 6 | \$395,043 | 16% | 0.01 |
| PECO | Lighting Controls | Mfg: Other | Lighting | New | end use | 105,376 | 12% | 0.00 | 10 | \$525,536 | 11% | 0.01 |
| PECO | Linear Fluorescent (High Bay) | Mfg: Other | Lighting | Early | end use | 105,376 | 17% | 0.00 | 14 | \$12,057 | 98% | 0.70 |
| PECO | Linear Fluorescent (High Bay) | Mfg: Other | Lighting | New | end use | 105,376 | 13% | 0.00 | 14 | \$3,824 | 91% | 1.48 |
| PECO | Linear Fluorescent (High Bay) | Mfg: Other | Lighting | ROB | end use | 105,376 | 13% | 0.00 | 14 | \$2,448 | 91% | 2.13 |
| PECO | Metal Halide (High Bay) | Mfg: Other | Lighting | Early | end use | 105,376 | 62% | 0.00 | 13 | \$72,439 | 38% | 0.42 |
| PECO | Metal Halide (High Bay) | Mfg: Other | Lighting | New | end use | 105,376 | 73% | 0.00 | 13 | \$17,319 | 38% | 1.68 |
| PECO | Metal Halide (High Bay) | Mfg: Other | Lighting | ROB | end use | 105,376 | 73% | 0.00 | 13 | \$13,163 | 38% | 2.06 |
| PECO | Screw Base CFL | Mfg: Other | Lighting | Early | end use | 105,376 | 80% | 0.00 | 7 | \$28,628 | 17% | 0.69 |
| PECO | Screw Base CFL | Mfg: Other | Lighting | New | end use | 105,376 | 73% | 0.00 | 9 | \$23,396 | 18% | 0.97 |
| PECO | Screw Base CFL | Mfg: Other | Lighting | ROB | end use | 105,376 | 73% | 0.00 | 9 | \$19,583 | 17% | 1.12 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|--|------------|----------|----------|---------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Screw Base LED | Mfg: Other | Lighting | Early | end use | 105,376 | 76% | 0.00 | 9 | \$17,569 | 21% | 1.31 |
| PECO | Screw Base LED | Mfg: Other | Lighting | New | end use | 105,376 | 77% | 0.00 | 9 | \$9,787 | 20% | 1.99 |
| PECO | Screw Base LED | Mfg: Other | Lighting | ROB | end use | 105,376 | 77% | 0.00 | 9 | \$7,770 | 21% | 2.29 |
| PECO | T8 High Performance Linear Florescent | Mfg: Other | Lighting | Early | end use | 105,376 | 36% | 0.00 | 14 | \$10,084 | 71% | 1.57 |
| PECO | T8 High Performance Linear Florescent | Mfg: Other | Lighting | New | end use | 105,376 | 26% | 0.00 | 14 | \$3,608 | 76% | 2.64 |
| PECO | T8 High Performance Linear Florescent | Mfg: Other | Lighting | ROB | end use | 105,376 | 26% | 0.00 | 14 | \$2,742 | 76% | 3.12 |
| PECO | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Other | Motors | Early | end use | 23,222 | 0.9% | 0.03 | 15 | \$355 | 81% | 0.37 |
| PECO | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Other | Motors | New | end use | 23,222 | 0.9% | 0.03 | 15 | \$355 | 81% | 0.38 |
| PECO | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Other | Motors | ROB | end use | 23,222 | 0.9% | 0.03 | 15 | \$355 | 81% | 0.37 |
| PECO | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Other | Motors | Early | end use | 23,222 | 0.8% | 0.02 | 15 | \$215 | 73% | 0.51 |
| PECO | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Other | Motors | New | end use | 23,222 | 0.8% | 0.02 | 15 | \$215 | 73% | 0.51 |
| PECO | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Other | Motors | ROB | end use | 23,222 | 0.8% | 0.02 | 15 | \$215 | 73% | 0.50 |
| PECO | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Other | Motors | Early | end use | 23,222 | 0.4% | 0.01 | 15 | \$83 | 81% | 0.76 |
| PECO | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Other | Motors | New | end use | 23,222 | 0.5% | 0.01 | 15 | \$83 | 81% | 0.78 |
| PECO | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Other | Motors | ROB | end use | 23,222 | 0.5% | 0.01 | 15 | \$83 | 81% | 0.77 |
| PECO | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Other | Motors | Early | end use | 23,222 | 0.4% | 0.01 | 15 | \$27 | 73% | 1.79 |
| PECO | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Other | Motors | New | end use | 23,222 | 0.4% | 0.01 | 15 | \$27 | 73% | 1.76 |
| PECO | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Other | Motors | ROB | end use | 23,222 | 0.4% | 0.01 | 15 | \$27 | 73% | 1.77 |
| PECO | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Other | Motors | Early | end use | 23,222 | 0.9% | 0.03 | 15 | \$41 | 47% | 2.52 |
| PECO | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Other | Motors | New | end use | 23,222 | 0.9% | 0.03 | 15 | \$41 | 47% | 2.51 |
| PECO | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Other | Motors | ROB | end use | 23,222 | 0.9% | 0.03 | 15 | \$41 | 47% | 2.50 |
| PECO | Facility Energy Management | Mfg: Other | Motors | Existing | end use | 23,222 | 4.2% | 0.06 | 2 | \$8.9 | 77% | 1.22 |
| PECO | Facility Energy Management | Mfg: Other | Motors | New | end use | 23,222 | 3.4% | 0.06 | 2 | \$8.9 | 77% | 1.21 |
| PECO | HE Motors | Mfg: Other | Motors | Early | end use | 23,222 | 2.0% | 0.07 | 15 | \$138 | 38% | 1.81 |
| PECO | HE Motors | Mfg: Other | Motors | New | end use | 23,222 | 2.0% | 0.07 | 15 | \$138 | 38% | 1.81 |
| PECO | HE Motors | Mfg: Other | Motors | ROB | end use | 23,222 | 2.0% | 0.07 | 15 | \$138 | 38% | 1.81 |
| PECO | High-Efficiency Ventilation System | Mfg: Other | Motors | Early | end use | 23,222 | 5.7% | 0.19 | 10 | \$1,451 | 73% | 0.41 |
| PECO | High-Efficiency Ventilation System | Mfg: Other | Motors | New | end use | 23,222 | 5.7% | 0.19 | 10 | \$1,451 | 73% | 0.41 |
| PECO | High-Efficiency Ventilation System | Mfg: Other | Motors | ROB | end use | 23,222 | 5.7% | 0.19 | 10 | \$1,451 | 73% | 0.41 |
| PECO | Improved Controls - Motors | Mfg: Other | Motors | Existing | end use | 23,222 | 4.0% | 0.13 | 10 | \$101 | 73% | 2.65 |
| PECO | Improved Controls - Motors | Mfg: Other | Motors | New | end use | 23,222 | 4.0% | 0.13 | 10 | \$101 | 73% | 2.65 |
| PECO | Motor Management Plan | Mfg: Other | Motors | Existing | end use | 23,222 | 4.0% | 0.10 | 10 | \$47 | 73% | 3.80 |
| PECO | Motor Management Plan | Mfg: Other | Motors | New | end use | 23,222 | 3.8% | 0.10 | 10 | \$47 | 73% | 3.73 |
| PECO | Motors Other | Mfg: Other | Motors | Existing | end use | 23,222 | 1.1% | 0.04 | 15 | \$4.6 | 83% | 7.39 |
| PECO | Motors Other | Mfg: Other | Motors | New | end use | 23,222 | 1.1% | 0.04 | 15 | \$4.6 | 83% | 7.39 |
| PECO | Motors: Rewind 101-200 HP | Mfg: Other | Motors | Existing | end use | 23,222 | 1.9% | 0.02 | 10 | \$29 | 27% | 3.16 |
| PECO | Motors: Rewind 101-200 HP | Mfg: Other | Motors | New | end use | 23,222 | 0.8% | 0.02 | 10 | \$29 | 27% | 1.94 |
| PECO | Motors: Rewind 201-500 HP | Mfg: Other | Motors | Existing | end use | 23,222 | 2.1% | 0.02 | 8 | \$18 | 27% | 3.33 |
| PECO | Motors: Rewind 201-500 HP | Mfg: Other | Motors | New | end use | 23,222 | 1.6% | 0.02 | 8 | \$18 | 27% | 3.05 |
| PECO | Motors: Rewind 20-50 HP | Mfg: Other | Motors | Existing | end use | 23,222 | 2.3% | 0.03 | 11 | \$86 | 42% | 2.13 |
| PECO | Motors: Rewind 20-50 HP | Mfg: Other | Motors | New | end use | 23,222 | 2.4% | 0.03 | 11 | \$86 | 42% | 2.19 |
| PECO | Motors: Rewind 500+ HP | Mfg: Other | Motors | Existing | end use | 23,222 | 1.5% | 0.02 | 8 | \$13 | 11% | 3.33 |
| PECO | Motors: Rewind 500+ HP | Mfg: Other | Motors | New | end use | 23,222 | 2.3% | 0.02 | 8 | \$13 | 11% | 3.74 |
| PECO | Motors: Rewind 51-100 HP | Mfg: Other | Motors | Existing | end use | 23,222 | 1.1% | 0.02 | 9 | \$43 | 42% | 1.74 |
| PECO | Motors: Rewind 51-100 HP | Mfg: Other | Motors | New | end use | 23,222 | 2.0% | 0.02 | 9 | \$43 | 42% | 2.47 |
| PECO | Switch from Belt drive to Direct Drive | Mfg: Other | Motors | Early | end use | 23,222 | 7.5% | 0.25 | 12 | \$373 | 30% | 1.95 |
| PECO | Switch from Belt drive to Direct Drive | Mfg: Other | Motors | New | end use | 23,222 | 7.5% | 0.25 | 12 | \$373 | 30% | 1.95 |
| PECO | Switch from Belt drive to Direct Drive | Mfg: Other | Motors | ROB | end use | 23,222 | 7.5% | 0.25 | 12 | \$373 | 30% | 1.95 |
| PECO | Synchronous Belts | Mfg: Other | Motors | Early | end use | 23,222 | 1.2% | 0.04 | 10 | \$34 | 30% | 2.42 |
| PECO | Synchronous Belts | Mfg: Other | Motors | New | end use | 23,222 | 1.2% | 0.04 | 10 | \$34 | 30% | 2.42 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|-------------------------------------|------------|------------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Synchronous Belts | Mfg: Other | Motors | ROB | end use | 23,222 | 1.2% | 0.04 | 10 | \$34 | 30% | 2.42 |
| PECO | Bldg Improvements | Mfg: Other | Other | Existing | end use | 32,023 | 16% | 0.62 | 15 | \$698 | 72% | 3.13 |
| PECO | Bldg Improvements | Mfg: Other | Other | New | end use | 32,023 | 16% | 0.62 | 15 | \$698 | 72% | 3.13 |
| PECO | Energy Project Management | Mfg: Other | Other | Existing | end use | 32,023 | 30% | 1.11 | 11 | \$1,143 | 63% | 2.65 |
| PECO | Energy Project Management | Mfg: Other | Other | New | end use | 32,023 | 30% | 1.11 | 11 | \$1,143 | 63% | 2.64 |
| PECO | Facility Energy Management | Mfg: Other | Other | Existing | end use | 32,023 | 6.2% | 0.07 | 2 | \$12 | 76% | 1.23 |
| PECO | Facility Energy Management | Mfg: Other | Other | New | end use | 32,023 | 6.4% | 0.07 | 2 | \$12 | 76% | 1.24 |
| PECO | Integrated Plant Energy Management | Mfg: Other | Other | Existing | end use | 32,023 | 51% | 1.91 | 11 | \$3,156 | 48% | 1.91 |
| PECO | Integrated Plant Energy Management | Mfg: Other | Other | New | end use | 32,023 | 51% | 1.91 | 11 | \$3,156 | 48% | 1.91 |
| PECO | Plant Energy Management | Mfg: Other | Other | Existing | end use | 32,023 | 12% | 0.46 | 10 | \$80 | 55% | 5.13 |
| PECO | Plant Energy Management | Mfg: Other | Other | New | end use | 32,023 | 13% | 0.46 | 10 | \$80 | 55% | 5.15 |
| PECO | Transformers | Mfg: Other | Other | Early | end use | 32,023 | 1.6% | 0.06 | 30 | \$102 | 34% | 3.56 |
| PECO | Transformers | Mfg: Other | Other | New | end use | 32,023 | 1.6% | 0.06 | 30 | \$102 | 34% | 3.54 |
| PECO | Transformers | Mfg: Other | Other | ROB | end use | 32,023 | 1.6% | 0.06 | 30 | \$102 | 34% | 3.56 |
| PECO | Air Compressor Demand Reduction | Mfg: Other | Process Air Compressor | Existing | end use | 1,314 | 26% | 0.04 | 10 | \$20 | 52% | 3.67 |
| PECO | Air Compressor Demand Reduction | Mfg: Other | Process Air Compressor | New | end use | 1,314 | 26% | 0.04 | 10 | \$20 | 52% | 3.67 |
| PECO | Air Compressor Equipment | Mfg: Other | Process Air Compressor | Early | end use | 1,314 | 39% | 0.07 | 10 | \$24 | 73% | 3.81 |
| PECO | Air Compressor Equipment | Mfg: Other | Process Air Compressor | New | end use | 1,314 | 39% | 0.07 | 10 | \$24 | 73% | 3.81 |
| PECO | Air Compressor Equipment | Mfg: Other | Process Air Compressor | ROB | end use | 1,314 | 39% | 0.07 | 10 | \$24 | 73% | 3.81 |
| PECO | Air Compressor Optimization | Mfg: Other | Process Air Compressor | Existing | end use | 1,314 | 39% | 0.07 | 10 | \$57 | 55% | 2.61 |
| PECO | Air Compressor Optimization | Mfg: Other | Process Air Compressor | New | end use | 1,314 | 39% | 0.07 | 10 | \$57 | 55% | 2.61 |
| PECO | Facility Energy Management | Mfg: Other | Process Air Compressor | Existing | end use | 1,314 | 8.1% | 0.00 | 2 | \$0.5 | 62% | 1.25 |
| PECO | Facility Energy Management | Mfg: Other | Process Air Compressor | New | end use | 1,314 | 6.7% | 0.00 | 2 | \$0.5 | 62% | 1.24 |
| PECO | HE Compressor motors | Mfg: Other | Process Air Compressor | Early | end use | 1,314 | 1.1% | 0.00 | 15 | \$5.0 | 73% | 1.48 |
| PECO | HE Compressor motors | Mfg: Other | Process Air Compressor | New | end use | 1,314 | 1.1% | 0.00 | 15 | \$5.0 | 73% | 1.50 |
| PECO | HE Compressor motors | Mfg: Other | Process Air Compressor | ROB | end use | 1,314 | 1.1% | 0.00 | 15 | \$5.0 | 73% | 1.50 |
| PECO | Improved Controls - Air Compressor | Mfg: Other | Process Air Compressor | Existing | end use | 1,314 | 41% | 0.07 | 10 | \$23 | 25% | 4.13 |
| PECO | Improved Controls - Air Compressor | Mfg: Other | Process Air Compressor | New | end use | 1,314 | 41% | 0.07 | 10 | \$23 | 25% | 4.13 |
| PECO | Low Pressure-drop Filters | Mfg: Other | Process Air Compressor | Existing | end use | 1,314 | 3.3% | 0.00 | 10 | \$15 | 61% | 1.09 |
| PECO | Low Pressure-drop Filters | Mfg: Other | Process Air Compressor | New | end use | 1,314 | 1.8% | 0.00 | 10 | \$15 | 61% | 0.69 |
| PECO | Outside Air Intake | Mfg: Other | Process Air Compressor | Existing | end use | 1,314 | 2.2% | 0.00 | 10 | \$8.6 | 48% | 1.24 |
| PECO | Outside Air Intake | Mfg: Other | Process Air Compressor | New | end use | 1,314 | 2.6% | 0.00 | 10 | \$8.6 | 48% | 1.40 |
| PECO | Receiver Capacity Addition | Mfg: Other | Process Air Compressor | Existing | end use | 1,314 | 5.9% | 0.01 | 10 | \$24 | 36% | 1.23 |
| PECO | Receiver Capacity Addition | Mfg: Other | Process Air Compressor | New | end use | 1,314 | 6.3% | 0.01 | 10 | \$24 | 36% | 1.29 |
| PECO | Refrigerated Cycling Dryers | Mfg: Other | Process Air Compressor | Early | end use | 1,314 | 1.7% | 0.00 | 10 | \$3.0 | 21% | 2.16 |
| PECO | Refrigerated Cycling Dryers | Mfg: Other | Process Air Compressor | New | end use | 1,314 | 1.7% | 0.00 | 10 | \$3.0 | 21% | 2.15 |
| PECO | Refrigerated Cycling Dryers | Mfg: Other | Process Air Compressor | ROB | end use | 1,314 | 1.7% | 0.00 | 10 | \$3.0 | 21% | 2.14 |
| PECO | VFD Controlled Compressor | Mfg: Other | Process Air Compressor | Early | end use | 1,314 | 24% | 0.04 | 10 | \$129 | 28% | 0.92 |
| PECO | VFD Controlled Compressor | Mfg: Other | Process Air Compressor | New | end use | 1,314 | 24% | 0.04 | 10 | \$129 | 28% | 0.92 |
| PECO | VFD Controlled Compressor | Mfg: Other | Process Air Compressor | ROB | end use | 1,314 | 24% | 0.04 | 10 | \$129 | 28% | 0.92 |
| PECO | Zero Loss Condensate Drain | Mfg: Other | Process Air Compressor | Early | end use | 1,314 | 1.9% | 0.00 | 10 | \$7.5 | 36% | 1.18 |
| PECO | Zero Loss Condensate Drain | Mfg: Other | Process Air Compressor | New | end use | 1,314 | 1.8% | 0.00 | 10 | \$7.5 | 36% | 1.17 |
| PECO | Zero Loss Condensate Drain | Mfg: Other | Process Air Compressor | ROB | end use | 1,314 | 1.9% | 0.00 | 10 | \$7.5 | 36% | 1.17 |
| PECO | Cooling Tower Optimization | Mfg: Other | Process Cooling | Existing | building | 19,135 | 20% | 1.37 | 10 | \$117 | 15% | 5.57 |
| PECO | Equipment: Chillers | Mfg: Other | Process Cooling | Early | end use | 19,135 | 18% | 0.71 | 20 | \$898 | 46% | 2.37 |
| PECO | Equipment: Chillers | Mfg: Other | Process Cooling | New | end use | 19,135 | 18% | 0.71 | 20 | \$898 | 46% | 2.37 |
| PECO | Equipment: Chillers | Mfg: Other | Process Cooling | ROB | end use | 19,135 | 18% | 0.71 | 20 | \$898 | 46% | 2.37 |
| PECO | Facility Energy Management | Mfg: Other | Process Cooling | Existing | end use | 19,135 | 8.2% | 0.07 | 2 | \$7.4 | 59% | 1.27 |
| PECO | Facility Energy Management | Mfg: Other | Process Cooling | New | end use | 19,135 | 9.4% | 0.07 | 2 | \$7.4 | 59% | 1.28 |
| PECO | Improved Controls - Process Cooling | Mfg: Other | Process Cooling | Existing | end use | 19,135 | 6.7% | 0.24 | 10 | \$1,010 | 56% | 0.58 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---------------------------------------|------------|-----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Improved Controls - Process Cooling | Mfg: Other | Process Cooling | New | end use | 19,135 | 6.8% | 0.24 | 10 | \$1,010 | 56% | 0.58 |
| PECO | VFD on Cooling Tower Fan | Mfg: Other | Process Cooling | Early | motor | 19,135 | 21% | 1.21 | 15 | \$1,271 | 20% | 1.93 |
| PECO | VFD on Cooling Tower Fan | Mfg: Other | Process Cooling | New | motor | 19,135 | 22% | 1.21 | 15 | \$1,295 | 20% | 1.92 |
| PECO | VFD on Cooling Tower Fan | Mfg: Other | Process Cooling | ROB | motor | 19,135 | 22% | 1.21 | 15 | \$1,295 | 20% | 1.92 |
| PECO | Improved Controls - Process Heating | Mfg: Other | Process Heating | Existing | end use | 65,508 | 17% | 1.54 | 10 | \$753 | 77% | 3.46 |
| PECO | Improved Controls - Process Heating | Mfg: Other | Process Heating | New | end use | 65,508 | 17% | 1.54 | 10 | \$753 | 77% | 3.46 |
| PECO | Process Heat O&M | Mfg: Other | Process Heating | Existing | end use | 65,508 | 16% | 1.46 | 2 | \$455 | 77% | 0.92 |
| PECO | Process Heat O&M | Mfg: Other | Process Heating | New | end use | 65,508 | 16% | 1.46 | 2 | \$455 | 77% | 0.92 |
| PECO | Facility Energy Management | Mfg: Other | Process Other | Existing | end use | 12,318 | 10% | 0.03 | 2 | \$4.7 | 73% | 1.26 |
| PECO | Facility Energy Management | Mfg: Other | Process Other | New | end use | 12,318 | 11% | 0.03 | 2 | \$4.7 | 73% | 1.26 |
| PECO | Adjustable speed drive on compressors | Mfg: Other | Process Refrigeration | Early | end use | 9,830 | 12% | 0.17 | 10 | \$182 | 64% | 1.92 |
| PECO | Adjustable speed drive on compressors | Mfg: Other | Process Refrigeration | New | end use | 9,830 | 12% | 0.17 | 10 | \$182 | 64% | 1.92 |
| PECO | Adjustable speed drive on compressors | Mfg: Other | Process Refrigeration | ROB | end use | 9,830 | 12% | 0.17 | 10 | \$182 | 64% | 1.92 |
| PECO | Cooling Tower Optimization | Mfg: Other | Process Refrigeration | Existing | building | 9,830 | 20% | 0.70 | 10 | \$60 | 15% | 5.57 |
| PECO | Optimization of operating parameters | Mfg: Other | Process Refrigeration | Existing | end use | 9,830 | 14% | 0.19 | 3 | \$79 | 57% | 1.12 |
| PECO | Optimization of operating parameters | Mfg: Other | Process Refrigeration | New | end use | 9,830 | 14% | 0.19 | 3 | \$79 | 57% | 1.11 |
| PECO | Synchronous Belts | Mfg: Other | Process Refrigeration | Early | end use | 9,830 | 1.2% | 0.02 | 10 | \$14 | 64% | 2.23 |
| PECO | Synchronous Belts | Mfg: Other | Process Refrigeration | New | end use | 9,830 | 1.2% | 0.02 | 10 | \$14 | 64% | 2.23 |
| PECO | Synchronous Belts | Mfg: Other | Process Refrigeration | ROB | end use | 9,830 | 1.2% | 0.02 | 10 | \$14 | 64% | 2.23 |
| PECO | VFD on Cooling Tower Fan | Mfg: Other | Process Refrigeration | Early | motor | 9,830 | 21% | 0.62 | 15 | \$653 | 20% | 1.93 |
| PECO | VFD on Cooling Tower Fan | Mfg: Other | Process Refrigeration | New | motor | 9,830 | 22% | 0.62 | 15 | \$665 | 20% | 1.92 |
| PECO | VFD on Cooling Tower Fan | Mfg: Other | Process Refrigeration | ROB | motor | 9,830 | 22% | 0.62 | 15 | \$665 | 20% | 1.92 |
| PECO | Facility Energy Management | Mfg: Other | Pumps | Existing | end use | 130,172 | 12% | 0.31 | 2 | \$50 | 73% | 1.19 |
| PECO | Facility Energy Management | Mfg: Other | Pumps | New | end use | 130,172 | 12% | 0.31 | 2 | \$50 | 73% | 1.19 |
| PECO | HE Motors | Mfg: Other | Pumps | Early | end use | 130,172 | 2.0% | 0.35 | 15 | \$775 | 77% | 1.70 |
| PECO | HE Motors | Mfg: Other | Pumps | New | end use | 130,172 | 2.0% | 0.35 | 15 | \$775 | 77% | 1.70 |
| PECO | HE Motors | Mfg: Other | Pumps | ROB | end use | 130,172 | 2.0% | 0.35 | 15 | \$775 | 77% | 1.70 |
| PECO | Motor rewinds | Mfg: Other | Pumps | Existing | end use | 130,172 | 1.8% | 0.10 | 9 | \$185 | 12% | 2.53 |
| PECO | Motor rewinds | Mfg: Other | Pumps | New | end use | 130,172 | 1.0% | 0.10 | 9 | \$185 | 12% | 1.83 |
| PECO | Pump Equipment Upgrade | Mfg: Other | Pumps | Early | end use | 130,172 | 20% | 3.39 | 12 | \$3,254 | 86% | 2.66 |
| PECO | Pump Equipment Upgrade | Mfg: Other | Pumps | New | end use | 130,172 | 20% | 3.39 | 12 | \$3,254 | 86% | 2.66 |
| PECO | Pump Equipment Upgrade | Mfg: Other | Pumps | ROB | end use | 130,172 | 20% | 3.39 | 12 | \$3,254 | 86% | 2.66 |
| PECO | Pump System Optimization | Mfg: Other | Pumps | Existing | end use | 130,172 | 8.7% | 1.47 | 12 | \$2,383 | 40% | 1.85 |
| PECO | Pump System Optimization | Mfg: Other | Pumps | New | end use | 130,172 | 8.7% | 1.47 | 12 | \$2,383 | 40% | 1.85 |
| PECO | Synchronous Belts | Mfg: Other | Pumps | Early | end use | 130,172 | 1.2% | 0.20 | 10 | \$192 | 64% | 2.28 |
| PECO | Synchronous Belts | Mfg: Other | Pumps | New | end use | 130,172 | 1.2% | 0.20 | 10 | \$192 | 64% | 2.28 |
| PECO | Synchronous Belts | Mfg: Other | Pumps | ROB | end use | 130,172 | 1.2% | 0.20 | 10 | \$192 | 64% | 2.28 |
| PECO | Circulating Fans | Mfg: Paper | Fans | Early | end use | 299,076 | 5.0% | 1.78 | 10 | \$1,821 | 68% | 2.31 |
| PECO | Circulating Fans | Mfg: Paper | Fans | New | end use | 299,076 | 5.0% | 1.78 | 10 | \$1,821 | 68% | 2.32 |
| PECO | Circulating Fans | Mfg: Paper | Fans | ROB | end use | 299,076 | 5.0% | 1.78 | 10 | \$1,821 | 68% | 2.32 |
| PECO | Efficient Centrifugal Fan | Mfg: Paper | Fans | Early | end use | 299,076 | 20% | 7.12 | 10 | \$10,875 | 68% | 1.76 |
| PECO | Efficient Centrifugal Fan | Mfg: Paper | Fans | New | end use | 299,076 | 20% | 7.12 | 10 | \$10,875 | 68% | 1.76 |
| PECO | Efficient Centrifugal Fan | Mfg: Paper | Fans | ROB | end use | 299,076 | 20% | 7.12 | 10 | \$10,875 | 68% | 1.76 |
| PECO | Facility Energy Management | Mfg: Paper | Fans | Existing | end use | 299,076 | 3.3% | 0.66 | 2 | \$115 | 77% | 1.13 |
| PECO | Facility Energy Management | Mfg: Paper | Fans | New | end use | 299,076 | 2.4% | 0.66 | 2 | \$115 | 77% | 1.10 |
| PECO | Fan Equipment Upgrade | Mfg: Paper | Fans | Early | end use | 299,076 | 35% | 12.46 | 10 | \$8,972 | 68% | 2.84 |
| PECO | Fan Equipment Upgrade | Mfg: Paper | Fans | New | end use | 299,076 | 35% | 12.46 | 10 | \$8,972 | 68% | 2.84 |
| PECO | Fan Equipment Upgrade | Mfg: Paper | Fans | ROB | end use | 299,076 | 35% | 12.46 | 10 | \$8,972 | 68% | 2.84 |
| PECO | Fan System Optimization | Mfg: Paper | Fans | Existing | end use | 299,076 | 7.5% | 2.49 | 10 | \$3,503 | 83% | 1.94 |
| PECO | Fan System Optimization | Mfg: Paper | Fans | New | end use | 299,076 | 7.3% | 2.49 | 10 | \$3,503 | 83% | 1.91 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|--|------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | HE Motors | Mfg: Paper | Fans | Early | end use | 299,076 | 2.0% | 0.73 | 15 | \$1,780 | 77% | 1.68 |
| PECO | HE Motors | Mfg: Paper | Fans | New | end use | 299,076 | 2.0% | 0.73 | 15 | \$1,780 | 77% | 1.68 |
| PECO | HE Motors | Mfg: Paper | Fans | ROB | end use | 299,076 | 2.0% | 0.73 | 15 | \$1,780 | 77% | 1.68 |
| PECO | Improved Controls - Fans | Mfg: Paper | Fans | Existing | end use | 299,076 | 7.1% | 2.53 | 10 | \$1,160 | 88% | 3.55 |
| PECO | Improved Controls - Fans | Mfg: Paper | Fans | New | end use | 299,076 | 9.6% | 3.41 | 10 | \$1,562 | 88% | 3.55 |
| PECO | Paper: Premium Fan | Mfg: Paper | Fans | Early | end use | 299,076 | 20% | 7.12 | 10 | \$10,875 | 61% | 1.76 |
| PECO | Paper: Premium Fan | Mfg: Paper | Fans | New | end use | 299,076 | 20% | 7.12 | 10 | \$10,875 | 61% | 1.76 |
| PECO | Paper: Premium Fan | Mfg: Paper | Fans | ROB | end use | 299,076 | 20% | 7.12 | 10 | \$10,875 | 61% | 1.76 |
| PECO | Properly Sized Fans | Mfg: Paper | Fans | Early | end use | 299,076 | 13% | 4.68 | 10 | \$6,125 | 41% | 1.96 |
| PECO | Properly Sized Fans | Mfg: Paper | Fans | New | end use | 299,076 | 13% | 4.68 | 10 | \$6,125 | 41% | 1.96 |
| PECO | Properly Sized Fans | Mfg: Paper | Fans | ROB | end use | 299,076 | 13% | 4.68 | 10 | \$6,125 | 41% | 1.96 |
| PECO | Synchronous Belts | Mfg: Paper | Fans | Early | end use | 299,076 | 1.2% | 0.41 | 10 | \$441 | 41% | 2.25 |
| PECO | Synchronous Belts | Mfg: Paper | Fans | New | end use | 299,076 | 1.2% | 0.41 | 10 | \$441 | 41% | 2.25 |
| PECO | Synchronous Belts | Mfg: Paper | Fans | ROB | end use | 299,076 | 1.2% | 0.41 | 10 | \$441 | 41% | 2.25 |
| PECO | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Paper | HVAC | Early | unit (ton) | 61,523 | 9.2% | 1.46 | 15 | \$11,212 | 28% | 0.34 |
| PECO | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Paper | HVAC | New | unit (ton) | 61,523 | 4.1% | 0.66 | 15 | \$2,717 | 28% | 0.62 |
| PECO | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Paper | HVAC | ROB | unit (ton) | 61,523 | 4.1% | 0.66 | 15 | \$2,717 | 28% | 0.62 |
| PECO | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Paper | HVAC | Early | unit (ton) | 61,523 | 12% | 1.98 | 15 | \$13,218 | 28% | 0.39 |
| PECO | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Paper | HVAC | New | unit (ton) | 61,523 | 7.7% | 1.23 | 15 | \$5,721 | 28% | 0.55 |
| PECO | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Paper | HVAC | ROB | unit (ton) | 61,523 | 7.7% | 1.23 | 15 | \$5,721 | 28% | 0.55 |
| PECO | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Paper | HVAC | Early | unit (ton) | 61,523 | 15% | 2.43 | 15 | \$15,224 | 29% | 0.42 |
| PECO | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Paper | HVAC | New | unit (ton) | 61,523 | 11% | 1.73 | 15 | \$8,726 | 29% | 0.51 |
| PECO | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Paper | HVAC | ROB | unit (ton) | 61,523 | 11% | 1.73 | 15 | \$8,726 | 29% | 0.51 |
| PECO | >760k min 10.2 EER Air Conditioner | Mfg: Paper | HVAC | Early | unit (ton) | 61,523 | 2.1% | 0.34 | 15 | \$19,525 | 35% | 0.05 |
| PECO | >760k min 10.2 EER Air Conditioner | Mfg: Paper | HVAC | New | unit (ton) | 61,523 | 2.8% | 0.45 | 15 | \$1,765 | 35% | 0.65 |
| PECO | >760k min 10.2 EER Air Conditioner | Mfg: Paper | HVAC | ROB | unit (ton) | 61,523 | 2.8% | 0.45 | 15 | \$1,765 | 35% | 0.65 |
| PECO | 135-240k min 12 EER Air Conditioner | Mfg: Paper | HVAC | Early | unit (ton) | 61,523 | 10% | 1.67 | 15 | \$21,143 | 35% | 0.21 |
| PECO | 135-240k min 12 EER Air Conditioner | Mfg: Paper | HVAC | New | unit (ton) | 61,523 | 5.8% | 0.92 | 15 | \$2,496 | 35% | 0.91 |
| PECO | 135-240k min 12 EER Air Conditioner | Mfg: Paper | HVAC | ROB | unit (ton) | 61,523 | 5.8% | 0.92 | 15 | \$2,496 | 35% | 0.91 |
| PECO | 240k-760k min 11 EER Air Conditioner | Mfg: Paper | HVAC | Early | unit (ton) | 61,523 | 5.2% | 0.83 | 15 | \$19,537 | 35% | 0.11 |
| PECO | 240k-760k min 11 EER Air Conditioner | Mfg: Paper | HVAC | New | unit (ton) | 61,523 | 5.3% | 0.85 | 15 | \$2,093 | 35% | 1.00 |
| PECO | 240k-760k min 11 EER Air Conditioner | Mfg: Paper | HVAC | ROB | unit (ton) | 61,523 | 5.3% | 0.85 | 15 | \$2,093 | 35% | 1.00 |
| PECO | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Paper | HVAC | Early | unit (ton) | 61,523 | 9.7% | 1.55 | 15 | \$21,648 | 35% | 0.19 |
| PECO | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Paper | HVAC | New | unit (ton) | 61,523 | 3.8% | 0.61 | 15 | \$3,089 | 35% | 0.51 |
| PECO | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Paper | HVAC | ROB | unit (ton) | 61,523 | 3.8% | 0.61 | 15 | \$3,089 | 35% | 0.51 |
| PECO | Ceiling Insualtions (Going upto R 20) | Mfg: Paper | HVAC | Existing | building | 61,523 | 5.9% | 0.91 | 15 | \$186,404 | 71% | 0.01 |
| PECO | Ceiling Insualtions (Going upto R 20) | Mfg: Paper | HVAC | New | building | 61,523 | 3.7% | 0.57 | 15 | \$177,182 | 94% | 0.01 |
| PECO | Chiller Tuneup/Diagnostics | Mfg: Paper | HVAC | Existing | building | 61,523 | 8.0% | 1.80 | 10 | \$157,095 | 59% | 0.02 |
| PECO | Chiller Tuneup/Diagnostics | Mfg: Paper | HVAC | New | building | 61,523 | 8.0% | 1.81 | 10 | \$157,095 | 59% | 0.02 |
| PECO | Cooling Tower Optimization | Mfg: Paper | HVAC | Existing | building | 61,523 | 20% | 4.40 | 10 | \$377 | 12% | 5.50 |
| PECO | Duct Insulation, Add R8 | Mfg: Paper | HVAC | Existing | building | 61,523 | 1.5% | 0.20 | 15 | \$489 | 18% | 1.16 |
| PECO | Duct Insulation, Add R8 | Mfg: Paper | HVAC | New | building | 61,523 | 1.5% | 0.20 | 15 | \$489 | 9% | 1.16 |
| PECO | Ductless Heat Pump | Mfg: Paper | HVAC | Early | heat pump | 61,523 | 0.8% | 0.11 | 15 | \$4,864 | 83% | 0.07 |
| PECO | Ductless Heat Pump | Mfg: Paper | HVAC | New | heat pump | 61,523 | 0.4% | 0.06 | 15 | \$1,412 | 83% | 0.13 |
| PECO | Ductless Heat Pump | Mfg: Paper | HVAC | ROB | heat pump | 61,523 | 0.4% | 0.06 | 15 | \$1,412 | 83% | 0.13 |
| PECO | DX Coil Cleaning | Mfg: Paper | HVAC | Existing | building | 61,523 | 13% | 2.82 | 1 | \$590 | 73% | 0.46 |
| PECO | DX Coil Cleaning | Mfg: Paper | HVAC | New | building | 61,523 | 13% | 2.82 | 1 | \$590 | 73% | 0.46 |
| PECO | Efficient Unit Heating System | Mfg: Paper | HVAC | Early | heater | 61,523 | 6.9% | 0.04 | 15 | \$3,321 | 83% | 0.67 |
| PECO | Efficient Unit Heating System | Mfg: Paper | HVAC | New | heater | 61,523 | 4.0% | 0.02 | 15 | \$2,265 | 83% | 0.57 |
| PECO | Efficient Unit Heating System | Mfg: Paper | HVAC | ROB | heater | 61,523 | 4.0% | 0.02 | 15 | \$2,265 | 83% | 0.57 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---|------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Ground Source Heat Pump (Closed Loop) | Mfg: Paper | HVAC | Early | heat pump | 61,523 | 1.3% | 0.18 | 15 | \$10,100 | 19% | 0.05 |
| PECO | Ground Source Heat Pump (Closed Loop) | Mfg: Paper | HVAC | New | heat pump | 61,523 | 1.0% | 0.14 | 15 | \$3,988 | 19% | 0.11 |
| PECO | Ground Source Heat Pump (Closed Loop) | Mfg: Paper | HVAC | ROB | heat pump | 61,523 | 1.0% | 0.14 | 15 | \$3,988 | 19% | 0.11 |
| PECO | Ground Source Heat Pump (Open Loop) | Mfg: Paper | HVAC | Early | heat pump | 61,523 | 1.3% | 0.18 | 15 | \$6,468 | 19% | 0.08 |
| PECO | Ground Source Heat Pump (Open Loop) | Mfg: Paper | HVAC | New | heat pump | 61,523 | 1.0% | 0.14 | 15 | \$137 | 19% | 2.37 |
| PECO | Ground Source Heat Pump (Open Loop) | Mfg: Paper | HVAC | ROB | heat pump | 61,523 | 1.0% | 0.14 | 15 | \$137 | 19% | 2.37 |
| PECO | HE Air Cooled Chiller, 100 Tons | Mfg: Paper | HVAC | Early | unit (ton) | 61,523 | 1.5% | 0.20 | 15 | \$71,567 | 89% | 0.01 |
| PECO | HE Air Cooled Chiller, 100 Tons | Mfg: Paper | HVAC | New | unit (ton) | 61,523 | 0.4% | 0.06 | 15 | \$10,426 | 89% | 0.02 |
| PECO | HE Air Cooled Chiller, 100 Tons | Mfg: Paper | HVAC | ROB | unit (ton) | 61,523 | 0.4% | 0.06 | 15 | \$10,426 | 89% | 0.02 |
| PECO | HE Air Cooled Chiller, 150 Tons | Mfg: Paper | HVAC | Early | unit (ton) | 61,523 | 1.4% | 0.20 | 15 | \$61,818 | 89% | 0.01 |
| PECO | HE Air Cooled Chiller, 150 Tons | Mfg: Paper | HVAC | New | unit (ton) | 61,523 | 0.3% | 0.04 | 15 | \$5,120 | 89% | 0.02 |
| PECO | HE Air Cooled Chiller, 150 Tons | Mfg: Paper | HVAC | ROB | unit (ton) | 61,523 | 0.3% | 0.04 | 15 | \$5,120 | 89% | 0.02 |
| PECO | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Paper | HVAC | Early | heat pump | 61,523 | 1.4% | 0.19 | 12 | \$2,636 | 81% | 0.18 |
| PECO | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Paper | HVAC | Early | heat pump | 61,523 | 1.1% | 0.16 | 12 | \$1,926 | 81% | 0.20 |
| PECO | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Paper | HVAC | New | heat pump | 61,523 | 1.0% | 0.14 | 12 | \$1,177 | 81% | 0.30 |
| PECO | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Paper | HVAC | New | heat pump | 61,523 | 0.8% | 0.10 | 12 | \$411 | 81% | 0.61 |
| PECO | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Paper | HVAC | ROB | heat pump | 61,523 | 1.0% | 0.14 | 12 | \$1,177 | 81% | 0.30 |
| PECO | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Paper | HVAC | ROB | heat pump | 61,523 | 0.8% | 0.10 | 12 | \$411 | 81% | 0.61 |
| PECO | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Paper | HVAC | Early | unit (ton) | 61,523 | 1.6% | 0.22 | 15 | \$5,678 | 89% | 0.12 |
| PECO | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Paper | HVAC | New | unit (ton) | 61,523 | 0.9% | 0.13 | 15 | \$1,889 | 89% | 0.20 |
| PECO | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Paper | HVAC | ROB | unit (ton) | 61,523 | 0.9% | 0.13 | 15 | \$1,889 | 89% | 0.20 |
| PECO | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Paper | HVAC | Early | unit (ton) | 61,523 | 1.4% | 0.19 | 15 | \$5,546 | 89% | 0.11 |
| PECO | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Paper | HVAC | New | unit (ton) | 61,523 | 1.0% | 0.14 | 15 | \$1,083 | 89% | 0.37 |
| PECO | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Paper | HVAC | ROB | unit (ton) | 61,523 | 1.4% | 0.19 | 15 | \$995 | 89% | 0.56 |
| PECO | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Paper | HVAC | Early | unit (ton) | 61,523 | 1.4% | 0.19 | 15 | \$6,564 | 89% | 0.09 |
| PECO | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Paper | HVAC | New | unit (ton) | 61,523 | 0.9% | 0.12 | 15 | \$2,764 | 89% | 0.13 |
| PECO | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Paper | HVAC | ROB | unit (ton) | 61,523 | 1.4% | 0.19 | 15 | \$2,501 | 89% | 0.23 |
| PECO | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Paper | HVAC | Early | unit (ton) | 61,523 | 1.4% | 0.19 | 15 | \$6,323 | 89% | 0.09 |
| PECO | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Paper | HVAC | New | unit (ton) | 61,523 | 0.9% | 0.12 | 15 | \$2,402 | 89% | 0.15 |
| PECO | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Paper | HVAC | ROB | unit (ton) | 61,523 | 1.4% | 0.19 | 15 | \$2,174 | 89% | 0.26 |
| PECO | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Paper | HVAC | Early | unit (ton) | 61,523 | 1.8% | 0.25 | 15 | \$6,813 | 89% | 0.11 |
| PECO | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Paper | HVAC | New | unit (ton) | 61,523 | 0.5% | 0.08 | 15 | \$4,219 | 89% | 0.05 |
| PECO | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Paper | HVAC | ROB | unit (ton) | 61,523 | 1.8% | 0.25 | 15 | \$3,276 | 89% | 0.23 |
| PECO | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Paper | HVAC | Early | unit (ton) | 61,523 | 2.1% | 0.30 | 15 | \$6,266 | 89% | 0.14 |
| PECO | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Paper | HVAC | New | unit (ton) | 61,523 | 0.8% | 0.11 | 15 | \$2,514 | 89% | 0.13 |
| PECO | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Paper | HVAC | ROB | unit (ton) | 61,523 | 0.8% | 0.11 | 15 | \$2,514 | 89% | 0.13 |
| PECO | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Paper | HVAC | Early | unit (ton) | 61,523 | 2.4% | 0.33 | 15 | \$5,311 | 89% | 0.19 |
| PECO | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Paper | HVAC | New | unit (ton) | 61,523 | 0.9% | 0.12 | 15 | \$1,336 | 89% | 0.28 |
| PECO | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Paper | HVAC | ROB | unit (ton) | 61,523 | 2.4% | 0.33 | 15 | \$953 | 89% | 0.96 |
| PECO | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Paper | HVAC | Early | unit (ton) | 61,523 | 1.8% | 0.25 | 15 | \$5,258 | 89% | 0.14 |
| PECO | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Paper | HVAC | New | unit (ton) | 61,523 | 0.7% | 0.09 | 15 | \$1,472 | 89% | 0.19 |
| PECO | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Paper | HVAC | ROB | unit (ton) | 61,523 | 1.8% | 0.25 | 15 | \$1,166 | 89% | 0.62 |
| PECO | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Paper | HVAC | Existing | building | 61,523 | 2.9% | 0.36 | 5 | \$653 | 55% | 0.60 |
| PECO | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Paper | HVAC | New | building | 61,523 | 0.6% | 0.14 | 5 | \$392 | 51% | 0.28 |
| PECO | Improved Controls - HVAC | Mfg: Paper | HVAC | Existing | end use | 61,523 | 21% | 1.84 | 10 | \$647 | 76% | 3.64 |
| PECO | Improved Controls - HVAC | Mfg: Paper | HVAC | New | end use | 61,523 | 22% | 1.84 | 10 | \$647 | 76% | 3.69 |
| PECO | Outside Air Economizer | Mfg: Paper | HVAC | Existing | building | 61,523 | 1.1% | 0.17 | 10 | \$226,045 | 82% | 0.00 |
| PECO | Outside Air Economizer | Mfg: Paper | HVAC | New | building | 61,523 | 1.1% | 0.17 | 10 | \$226,045 | 82% | 0.00 |
| PECO | Recommissioning | Mfg: Paper | HVAC | Existing | end use | 61,523 | 5.6% | 0.44 | 10 | \$84 | 88% | 4.55 |
| PECO | Recommissioning | Mfg: Paper | HVAC | New | end use | 61,523 | 5.1% | 0.44 | 10 | \$84 | 88% | 4.49 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---------------------------------------|------------|----------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Room AC (with louvered sides) | Mfg: Paper | HVAC | Early | unit (ton) | 61,523 | 7.7% | 1.07 | 9 | \$4,824 | 78% | 0.42 |
| PECO | Room AC (with louvered sides) | Mfg: Paper | HVAC | New | unit (ton) | 61,523 | 2.6% | 0.36 | 9 | \$264 | 78% | 1.94 |
| PECO | Room AC (with louvered sides) | Mfg: Paper | HVAC | ROB | unit (ton) | 61,523 | 2.6% | 0.36 | 9 | \$264 | 78% | 1.94 |
| PECO | Variable Refrigerant Flow Heat Pump | Mfg: Paper | HVAC | New | measure | 61,523 | 0.1% | 0.02 | 13 | \$453 | 43% | 0.10 |
| PECO | Variable Refrigerant Flow Heat Pump | Mfg: Paper | HVAC | ROB | measure | 61,523 | 0.1% | 0.02 | 13 | \$453 | 43% | 0.10 |
| PECO | VFD on Cooling Tower Fan | Mfg: Paper | HVAC | Early | motor | 61,523 | 21% | 3.88 | 15 | \$2,841 | 15% | 2.53 |
| PECO | VFD on Cooling Tower Fan | Mfg: Paper | HVAC | New | motor | 61,523 | 22% | 3.88 | 15 | \$2,895 | 15% | 2.52 |
| PECO | VFD on Cooling Tower Fan | Mfg: Paper | HVAC | ROB | motor | 61,523 | 22% | 3.88 | 15 | \$2,895 | 15% | 2.52 |
| PECO | Wall Insualtions (Going upto R 21) | Mfg: Paper | HVAC | Existing | building | 61,523 | 19% | 2.94 | 15 | \$43,765 | 26% | 0.18 |
| PECO | Wall Insualtions (Going upto R 21) | Mfg: Paper | HVAC | New | building | 61,523 | 0.6% | 0.09 | 15 | \$33,570 | 94% | 0.01 |
| PECO | Water Source Heat Pump (4 ton) | Mfg: Paper | HVAC | Early | heat pump | 61,523 | 1.5% | 0.21 | 15 | \$10,459 | 28% | 0.06 |
| PECO | Water Source Heat Pump (4 ton) | Mfg: Paper | HVAC | New | heat pump | 61,523 | 1.1% | 0.16 | 15 | \$5,097 | 28% | 0.09 |
| PECO | Water Source Heat Pump (4 ton) | Mfg: Paper | HVAC | ROB | heat pump | 61,523 | 1.1% | 0.16 | 15 | \$5,097 | 28% | 0.09 |
| PECO | Efficient Metal Halide (High Bay) | Mfg: Paper | Lighting | Early | end use | 62,482 | 42% | 0.00 | 9 | \$9,763 | 53% | 0.83 |
| PECO | Efficient Metal Halide (High Bay) | Mfg: Paper | Lighting | New | end use | 62,482 | 41% | 0.00 | 13 | \$260,786 | 61% | 0.05 |
| PECO | Efficient Metal Halide (High Bay) | Mfg: Paper | Lighting | ROB | end use | 62,482 | 41% | 0.00 | 13 | \$199,307 | 61% | 0.06 |
| PECO | Induction (High Bay) | Mfg: Paper | Lighting | Early | end use | 62,482 | 94% | 0.00 | 13 | \$29,051 | 95% | 0.88 |
| PECO | Induction (High Bay) | Mfg: Paper | Lighting | New | end use | 62,482 | 94% | 0.00 | 13 | \$27,199 | 95% | 0.94 |
| PECO | Induction (High Bay) | Mfg: Paper | Lighting | ROB | end use | 62,482 | 94% | 0.00 | 13 | \$20,672 | 95% | 1.18 |
| PECO | LED (High Bay) | Mfg: Paper | Lighting | Early | end use | 62,482 | 69% | 0.00 | 14 | \$34,197 | 95% | 0.61 |
| PECO | LED (High Bay) | Mfg: Paper | Lighting | New | end use | 62,482 | 55% | 0.00 | 14 | \$37,958 | 95% | 0.45 |
| PECO | LED (High Bay) | Mfg: Paper | Lighting | ROB | end use | 62,482 | 59% | 0.00 | 14 | \$25,010 | 95% | 0.70 |
| PECO | Lighting Controls | Mfg: Paper | Lighting | Existing | end use | 62,482 | 20% | 0.00 | 6 | \$234,236 | 16% | 0.01 |
| PECO | Lighting Controls | Mfg: Paper | Lighting | New | end use | 62,482 | 12% | 0.00 | 10 | \$311,611 | 11% | 0.01 |
| PECO | Linear Fluorescent (High Bay) | Mfg: Paper | Lighting | Early | end use | 62,482 | 17% | 0.00 | 14 | \$7,149 | 98% | 0.70 |
| PECO | Linear Fluorescent (High Bay) | Mfg: Paper | Lighting | New | end use | 62,482 | 13% | 0.00 | 14 | \$2,267 | 91% | 1.48 |
| PECO | Linear Fluorescent (High Bay) | Mfg: Paper | Lighting | ROB | end use | 62,482 | 13% | 0.00 | 14 | \$1,452 | 91% | 2.13 |
| PECO | Metal Halide (High Bay) | Mfg: Paper | Lighting | Early | end use | 62,482 | 62% | 0.00 | 13 | \$42,952 | 38% | 0.42 |
| PECO | Metal Halide (High Bay) | Mfg: Paper | Lighting | New | end use | 62,482 | 73% | 0.00 | 13 | \$10,269 | 38% | 1.68 |
| PECO | Metal Halide (High Bay) | Mfg: Paper | Lighting | ROB | end use | 62,482 | 73% | 0.00 | 13 | \$7,805 | 38% | 2.06 |
| PECO | Screw Base CFL | Mfg: Paper | Lighting | Early | end use | 62,482 | 80% | 0.00 | 7 | \$16,975 | 17% | 0.69 |
| PECO | Screw Base CFL | Mfg: Paper | Lighting | New | end use | 62,482 | 73% | 0.00 | 9 | \$13,873 | 18% | 0.97 |
| PECO | Screw Base CFL | Mfg: Paper | Lighting | ROB | end use | 62,482 | 73% | 0.00 | 9 | \$11,611 | 17% | 1.12 |
| PECO | Screw Base LED | Mfg: Paper | Lighting | Early | end use | 62,482 | 76% | 0.00 | 9 | \$10,418 | 21% | 1.31 |
| PECO | Screw Base LED | Mfg: Paper | Lighting | New | end use | 62,482 | 77% | 0.00 | 9 | \$5,803 | 20% | 1.99 |
| PECO | Screw Base LED | Mfg: Paper | Lighting | ROB | end use | 62,482 | 77% | 0.00 | 9 | \$4,607 | 21% | 2.29 |
| PECO | T8 High Performance Linear Florescent | Mfg: Paper | Lighting | Early | end use | 62,482 | 36% | 0.00 | 14 | \$5,979 | 71% | 1.57 |
| PECO | T8 High Performance Linear Florescent | Mfg: Paper | Lighting | New | end use | 62,482 | 26% | 0.00 | 14 | \$2,139 | 76% | 2.64 |
| PECO | T8 High Performance Linear Florescent | Mfg: Paper | Lighting | ROB | end use | 62,482 | 26% | 0.00 | 14 | \$1,626 | 76% | 3.12 |
| PECO | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Paper | Motors | Early | end use | 94,423 | 0.9% | 0.12 | 15 | \$1,442 | 81% | 0.38 |
| PECO | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Paper | Motors | New | end use | 94,423 | 0.9% | 0.12 | 15 | \$1,442 | 81% | 0.38 |
| PECO | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Paper | Motors | ROB | end use | 94,423 | 0.9% | 0.12 | 15 | \$1,442 | 81% | 0.38 |
| PECO | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Paper | Motors | Early | end use | 94,423 | 0.7% | 0.10 | 15 | \$876 | 73% | 0.50 |
| PECO | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Paper | Motors | New | end use | 94,423 | 0.8% | 0.10 | 15 | \$876 | 73% | 0.50 |
| PECO | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Paper | Motors | ROB | end use | 94,423 | 0.8% | 0.10 | 15 | \$876 | 73% | 0.51 |
| PECO | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Paper | Motors | Early | end use | 94,423 | 0.5% | 0.06 | 15 | \$336 | 81% | 0.76 |
| PECO | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Paper | Motors | New | end use | 94,423 | 0.5% | 0.06 | 15 | \$336 | 81% | 0.78 |
| PECO | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Paper | Motors | ROB | end use | 94,423 | 0.5% | 0.06 | 15 | \$336 | 81% | 0.76 |
| PECO | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Paper | Motors | Early | end use | 94,423 | 0.4% | 0.05 | 15 | \$111 | 73% | 1.78 |
| PECO | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Paper | Motors | New | end use | 94,423 | 0.4% | 0.05 | 15 | \$111 | 73% | 1.83 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|--|------------|---------|----------|---------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Paper | Motors | ROB | end use | 94,423 | 0.4% | 0.05 | 15 | \$111 | 73% | 1.77 |
| PECO | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Paper | Motors | Early | end use | 94,423 | 0.9% | 0.12 | 15 | \$166 | 47% | 2.50 |
| PECO | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Paper | Motors | New | end use | 94,423 | 0.9% | 0.12 | 15 | \$166 | 47% | 2.53 |
| PECO | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Paper | Motors | ROB | end use | 94,423 | 0.9% | 0.12 | 15 | \$166 | 47% | 2.52 |
| PECO | Facility Energy Management | Mfg: Paper | Motors | Existing | end use | 94,423 | 3.6% | 0.25 | 2 | \$36 | 77% | 1.21 |
| PECO | Facility Energy Management | Mfg: Paper | Motors | New | end use | 94,423 | 4.5% | 0.25 | 2 | \$36 | 77% | 1.23 |
| PECO | HE Motors | Mfg: Paper | Motors | Early | end use | 94,423 | 2.0% | 0.28 | 15 | \$562 | 38% | 1.81 |
| PECO | HE Motors | Mfg: Paper | Motors | New | end use | 94,423 | 2.0% | 0.28 | 15 | \$562 | 38% | 1.81 |
| PECO | HE Motors | Mfg: Paper | Motors | ROB | end use | 94,423 | 2.0% | 0.28 | 15 | \$562 | 38% | 1.81 |
| PECO | High-Efficiency Ventilation System | Mfg: Paper | Motors | Early | end use | 94,423 | 5.7% | 0.76 | 10 | \$5,901 | 73% | 0.41 |
| PECO | High-Efficiency Ventilation System | Mfg: Paper | Motors | New | end use | 94,423 | 5.7% | 0.76 | 10 | \$5,901 | 73% | 0.41 |
| PECO | High-Efficiency Ventilation System | Mfg: Paper | Motors | ROB | end use | 94,423 | 5.7% | 0.76 | 10 | \$5,901 | 73% | 0.41 |
| PECO | Improved Controls - Motors | Mfg: Paper | Motors | Existing | end use | 94,423 | 4.0% | 0.53 | 10 | \$410 | 73% | 2.65 |
| PECO | Improved Controls - Motors | Mfg: Paper | Motors | New | end use | 94,423 | 4.0% | 0.53 | 10 | \$410 | 73% | 2.65 |
| PECO | Material Handling | Mfg: Paper | Motors | Early | end use | 94,423 | 18% | 2.48 | 10 | \$4,564 | 77% | 1.43 |
| PECO | Material Handling | Mfg: Paper | Motors | New | end use | 94,423 | 18% | 2.48 | 10 | \$4,564 | 77% | 1.43 |
| PECO | Material Handling | Mfg: Paper | Motors | ROB | end use | 94,423 | 18% | 2.48 | 10 | \$4,564 | 77% | 1.43 |
| PECO | Material Handling VFD | Mfg: Paper | Motors | Early | end use | 94,423 | 16% | 2.17 | 10 | \$3,157 | 77% | 1.72 |
| PECO | Material Handling VFD | Mfg: Paper | Motors | New | end use | 94,423 | 16% | 2.17 | 10 | \$3,157 | 77% | 1.72 |
| PECO | Material Handling VFD | Mfg: Paper | Motors | ROB | end use | 94,423 | 16% | 2.17 | 10 | \$3,157 | 77% | 1.72 |
| PECO | Motor Management Plan | Mfg: Paper | Motors | Existing | end use | 94,423 | 3.0% | 0.39 | 10 | \$193 | 73% | 3.43 |
| PECO | Motor Management Plan | Mfg: Paper | Motors | New | end use | 94,423 | 2.9% | 0.39 | 10 | \$193 | 73% | 3.39 |
| PECO | Motors Other | Mfg: Paper | Motors | Existing | end use | 94,423 | 1.1% | 0.15 | 15 | \$19 | 83% | 7.39 |
| PECO | Motors Other | Mfg: Paper | Motors | New | end use | 94,423 | 1.1% | 0.15 | 15 | \$19 | 83% | 7.39 |
| PECO | Motors: Rewind 101-200 HP | Mfg: Paper | Motors | Existing | end use | 94,423 | 1.8% | 0.07 | 10 | \$119 | 27% | 3.08 |
| PECO | Motors: Rewind 101-200 HP | Mfg: Paper | Motors | New | end use | 94,423 | 1.7% | 0.07 | 10 | \$119 | 27% | 2.99 |
| PECO | Motors: Rewind 201-500 HP | Mfg: Paper | Motors | Existing | end use | 94,423 | 2.0% | 0.07 | 8 | \$75 | 27% | 3.28 |
| PECO | Motors: Rewind 201-500 HP | Mfg: Paper | Motors | New | end use | 94,423 | 0.8% | 0.07 | 8 | \$75 | 27% | 2.30 |
| PECO | Motors: Rewind 20-50 HP | Mfg: Paper | Motors | Existing | end use | 94,423 | 1.9% | 0.14 | 11 | \$351 | 42% | 1.88 |
| PECO | Motors: Rewind 20-50 HP | Mfg: Paper | Motors | New | end use | 94,423 | 1.8% | 0.14 | 11 | \$351 | 42% | 1.82 |
| PECO | Motors: Rewind 500+ HP | Mfg: Paper | Motors | Existing | end use | 94,423 | 1.1% | 0.08 | 8 | \$54 | 11% | 2.99 |
| PECO | Motors: Rewind 500+ HP | Mfg: Paper | Motors | New | end use | 94,423 | 1.6% | 0.08 | 8 | \$54 | 11% | 3.40 |
| PECO | Motors: Rewind 51-100 HP | Mfg: Paper | Motors | Existing | end use | 94,423 | 1.5% | 0.08 | 9 | \$173 | 42% | 2.11 |
| PECO | Motors: Rewind 51-100 HP | Mfg: Paper | Motors | New | end use | 94,423 | 1.3% | 0.08 | 9 | \$173 | 42% | 1.93 |
| PECO | Paper: Large Material Handling | Mfg: Paper | Motors | Early | end use | 94,423 | 9.7% | 1.31 | 10 | \$7,073 | 64% | 0.57 |
| PECO | Paper: Large Material Handling | Mfg: Paper | Motors | New | end use | 94,423 | 9.7% | 1.31 | 10 | \$7,073 | 64% | 0.57 |
| PECO | Paper: Large Material Handling | Mfg: Paper | Motors | ROB | end use | 94,423 | 9.7% | 1.31 | 10 | \$7,073 | 64% | 0.57 |
| PECO | Paper: Material Handling | Mfg: Paper | Motors | Early | end use | 94,423 | 13% | 1.77 | 10 | \$7,957 | 64% | 0.67 |
| PECO | Paper: Material Handling | Mfg: Paper | Motors | New | end use | 94,423 | 13% | 1.77 | 10 | \$7,957 | 64% | 0.67 |
| PECO | Paper: Material Handling | Mfg: Paper | Motors | ROB | end use | 94,423 | 13% | 1.77 | 10 | \$7,957 | 64% | 0.67 |
| PECO | Paper: Premium Control Large Material | Mfg: Paper | Motors | Existing | end use | 94,423 | 19% | 2.53 | 10 | \$7,780 | 69% | 0.94 |
| PECO | Paper: Premium Control Large Material | Mfg: Paper | Motors | New | end use | 94,423 | 19% | 2.53 | 10 | \$7,780 | 69% | 0.94 |
| PECO | Switch from Belt drive to Direct Drive | Mfg: Paper | Motors | Early | end use | 94,423 | 7.5% | 1.01 | 12 | \$1,515 | 30% | 1.95 |
| PECO | Switch from Belt drive to Direct Drive | Mfg: Paper | Motors | New | end use | 94,423 | 7.5% | 1.01 | 12 | \$1,515 | 30% | 1.95 |
| PECO | Switch from Belt drive to Direct Drive | Mfg: Paper | Motors | ROB | end use | 94,423 | 7.5% | 1.01 | 12 | \$1,515 | 30% | 1.95 |
| PECO | Synchronous Belts | Mfg: Paper | Motors | Early | end use | 94,423 | 1.2% | 0.16 | 10 | \$139 | 30% | 2.42 |
| PECO | Synchronous Belts | Mfg: Paper | Motors | New | end use | 94,423 | 1.2% | 0.16 | 10 | \$139 | 30% | 2.42 |
| PECO | Synchronous Belts | Mfg: Paper | Motors | ROB | end use | 94,423 | 1.2% | 0.16 | 10 | \$139 | 30% | 2.42 |
| PECO | Bldg Improvements | Mfg: Paper | Other | Existing | end use | 17,364 | 16% | 0.33 | 15 | \$379 | 72% | 3.13 |
| PECO | Bldg Improvements | Mfg: Paper | Other | New | end use | 17,364 | 16% | 0.33 | 15 | \$379 | 72% | 3.13 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|-------------------------------------|------------|------------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Energy Project Management | Mfg: Paper | Other | Existing | end use | 17,364 | 30% | 0.60 | 11 | \$620 | 63% | 2.67 |
| PECO | Energy Project Management | Mfg: Paper | Other | New | end use | 17,364 | 29% | 0.60 | 11 | \$620 | 63% | 2.62 |
| PECO | Facility Energy Management | Mfg: Paper | Other | Existing | end use | 17,364 | 6.0% | 0.04 | 2 | \$6.7 | 76% | 1.23 |
| PECO | Facility Energy Management | Mfg: Paper | Other | New | end use | 17,364 | 6.3% | 0.04 | 2 | \$6.7 | 76% | 1.23 |
| PECO | Integrated Plant Energy Management | Mfg: Paper | Other | Existing | end use | 17,364 | 51% | 1.03 | 11 | \$1,712 | 48% | 1.91 |
| PECO | Integrated Plant Energy Management | Mfg: Paper | Other | New | end use | 17,364 | 52% | 1.03 | 11 | \$1,712 | 48% | 1.93 |
| PECO | Plant Energy Management | Mfg: Paper | Other | Existing | end use | 17,364 | 13% | 0.25 | 10 | \$44 | 55% | 5.17 |
| PECO | Plant Energy Management | Mfg: Paper | Other | New | end use | 17,364 | 12% | 0.25 | 10 | \$44 | 55% | 5.14 |
| PECO | Transformers | Mfg: Paper | Other | Early | end use | 17,364 | 1.6% | 0.03 | 30 | \$55 | 34% | 3.56 |
| PECO | Transformers | Mfg: Paper | Other | New | end use | 17,364 | 1.6% | 0.03 | 30 | \$55 | 34% | 3.54 |
| PECO | Transformers | Mfg: Paper | Other | ROB | end use | 17,364 | 1.6% | 0.03 | 30 | \$55 | 34% | 3.57 |
| PECO | Air Compressor Demand Reduction | Mfg: Paper | Process Air Compressor | Existing | end use | 2,845 | 26% | 0.10 | 10 | \$43 | 40% | 3.67 |
| PECO | Air Compressor Demand Reduction | Mfg: Paper | Process Air Compressor | New | end use | 2,845 | 26% | 0.10 | 10 | \$43 | 40% | 3.67 |
| PECO | Air Compressor Equipment | Mfg: Paper | Process Air Compressor | Early | end use | 2,845 | 39% | 0.14 | 10 | \$52 | 56% | 3.81 |
| PECO | Air Compressor Equipment | Mfg: Paper | Process Air Compressor | New | end use | 2,845 | 39% | 0.14 | 10 | \$52 | 56% | 3.81 |
| PECO | Air Compressor Equipment | Mfg: Paper | Process Air Compressor | ROB | end use | 2,845 | 39% | 0.14 | 10 | \$52 | 56% | 3.81 |
| PECO | Air Compressor Optimization | Mfg: Paper | Process Air Compressor | Existing | end use | 2,845 | 39% | 0.15 | 10 | \$124 | 42% | 2.61 |
| PECO | Air Compressor Optimization | Mfg: Paper | Process Air Compressor | New | end use | 2,845 | 39% | 0.15 | 10 | \$124 | 42% | 2.61 |
| PECO | Facility Energy Management | Mfg: Paper | Process Air Compressor | Existing | end use | 2,845 | 7.3% | 0.01 | 2 | \$1.1 | 50% | 1.25 |
| PECO | Facility Energy Management | Mfg: Paper | Process Air Compressor | New | end use | 2,845 | 7.0% | 0.01 | 2 | \$1.1 | 50% | 1.24 |
| PECO | HE Compressor motors | Mfg: Paper | Process Air Compressor | Early | end use | 2,845 | 1.1% | 0.00 | 15 | \$11 | 56% | 1.49 |
| PECO | HE Compressor motors | Mfg: Paper | Process Air Compressor | New | end use | 2,845 | 1.1% | 0.00 | 15 | \$11 | 56% | 1.49 |
| PECO | HE Compressor motors | Mfg: Paper | Process Air Compressor | ROB | end use | 2,845 | 1.1% | 0.00 | 15 | \$11 | 56% | 1.49 |
| PECO | Improved Controls - Air Compressor | Mfg: Paper | Process Air Compressor | Existing | end use | 2,845 | 41% | 0.15 | 10 | \$51 | 19% | 4.13 |
| PECO | Improved Controls - Air Compressor | Mfg: Paper | Process Air Compressor | New | end use | 2,845 | 41% | 0.15 | 10 | \$51 | 19% | 4.13 |
| PECO | Low Pressure-drop Filters | Mfg: Paper | Process Air Compressor | Existing | end use | 2,845 | 3.1% | 0.01 | 10 | \$32 | 46% | 1.04 |
| PECO | Low Pressure-drop Filters | Mfg: Paper | Process Air Compressor | New | end use | 2,845 | 2.5% | 0.01 | 10 | \$32 | 46% | 0.89 |
| PECO | Outside Air Intake | Mfg: Paper | Process Air Compressor | Existing | end use | 2,845 | 1.5% | 0.01 | 10 | \$19 | 37% | 0.94 |
| PECO | Outside Air Intake | Mfg: Paper | Process Air Compressor | New | end use | 2,845 | 2.5% | 0.01 | 10 | \$19 | 37% | 1.36 |
| PECO | Receiver Capacity Addition | Mfg: Paper | Process Air Compressor | Existing | end use | 2,845 | 6.0% | 0.02 | 10 | \$53 | 28% | 1.25 |
| PECO | Receiver Capacity Addition | Mfg: Paper | Process Air Compressor | New | end use | 2,845 | 7.3% | 0.02 | 10 | \$53 | 28% | 1.43 |
| PECO | Refrigerated Cycling Dryers | Mfg: Paper | Process Air Compressor | Early | end use | 2,845 | 1.7% | 0.01 | 10 | \$6.5 | 16% | 2.15 |
| PECO | Refrigerated Cycling Dryers | Mfg: Paper | Process Air Compressor | New | end use | 2,845 | 1.7% | 0.01 | 10 | \$6.5 | 16% | 2.15 |
| PECO | Refrigerated Cycling Dryers | Mfg: Paper | Process Air Compressor | ROB | end use | 2,845 | 1.7% | 0.01 | 10 | \$6.5 | 16% | 2.15 |
| PECO | VFD Controlled Compressor | Mfg: Paper | Process Air Compressor | Early | end use | 2,845 | 24% | 0.09 | 10 | \$280 | 22% | 0.92 |
| PECO | VFD Controlled Compressor | Mfg: Paper | Process Air Compressor | New | end use | 2,845 | 24% | 0.09 | 10 | \$280 | 22% | 0.92 |
| PECO | VFD Controlled Compressor | Mfg: Paper | Process Air Compressor | ROB | end use | 2,845 | 24% | 0.09 | 10 | \$280 | 22% | 0.92 |
| PECO | Zero Loss Condensate Drain | Mfg: Paper | Process Air Compressor | Early | end use | 2,845 | 1.9% | 0.01 | 10 | \$16 | 28% | 1.18 |
| PECO | Zero Loss Condensate Drain | Mfg: Paper | Process Air Compressor | New | end use | 2,845 | 1.9% | 0.01 | 10 | \$16 | 28% | 1.18 |
| PECO | Zero Loss Condensate Drain | Mfg: Paper | Process Air Compressor | ROB | end use | 2,845 | 1.9% | 0.01 | 10 | \$16 | 28% | 1.18 |
| PECO | Cooling Tower Optimization | Mfg: Paper | Process Cooling | Existing | building | 10,676 | 20% | 0.76 | 10 | \$65 | 15% | 5.57 |
| PECO | Equipment: Chillers | Mfg: Paper | Process Cooling | Early | end use | 10,676 | 18% | 0.40 | 20 | \$501 | 46% | 2.37 |
| PECO | Equipment: Chillers | Mfg: Paper | Process Cooling | New | end use | 10,676 | 18% | 0.40 | 20 | \$501 | 46% | 2.37 |
| PECO | Equipment: Chillers | Mfg: Paper | Process Cooling | ROB | end use | 10,676 | 18% | 0.40 | 20 | \$501 | 46% | 2.37 |
| PECO | Facility Energy Management | Mfg: Paper | Process Cooling | Existing | end use | 10,676 | 9.2% | 0.04 | 2 | \$4.1 | 59% | 1.28 |
| PECO | Facility Energy Management | Mfg: Paper | Process Cooling | New | end use | 10,676 | 8.7% | 0.04 | 2 | \$4.1 | 59% | 1.27 |
| PECO | Improved Controls - Process Cooling | Mfg: Paper | Process Cooling | Existing | end use | 10,676 | 7.1% | 0.13 | 10 | \$564 | 56% | 0.60 |
| PECO | Improved Controls - Process Cooling | Mfg: Paper | Process Cooling | New | end use | 10,676 | 6.1% | 0.13 | 10 | \$564 | 56% | 0.54 |
| PECO | VFD on Cooling Tower Fan | Mfg: Paper | Process Cooling | Early | motor | 10,676 | 21% | 0.67 | 15 | \$709 | 20% | 1.93 |
| PECO | VFD on Cooling Tower Fan | Mfg: Paper | Process Cooling | New | motor | 10,676 | 22% | 0.67 | 15 | \$722 | 20% | 1.92 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---------------------------------------|------------|-----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | VFD on Cooling Tower Fan | Mfg: Paper | Process Cooling | ROB | motor | 10,676 | 22% | 0.67 | 15 | \$722 | 20% | 1.92 |
| PECO | Improved Controls - Process Heating | Mfg: Paper | Process Heating | Existing | end use | 45,005 | 17% | 1.06 | 10 | \$517 | 77% | 3.46 |
| PECO | Improved Controls - Process Heating | Mfg: Paper | Process Heating | New | end use | 45,005 | 17% | 1.06 | 10 | \$517 | 77% | 3.46 |
| PECO | Process Heat O&M | Mfg: Paper | Process Heating | Existing | end use | 45,005 | 16% | 1.00 | 2 | \$313 | 77% | 0.92 |
| PECO | Process Heat O&M | Mfg: Paper | Process Heating | New | end use | 45,005 | 16% | 1.00 | 2 | \$313 | 77% | 0.92 |
| PECO | Facility Energy Management | Mfg: Paper | Process Other | Existing | end use | 22,577 | 11% | 0.06 | 2 | \$8.7 | 73% | 1.26 |
| PECO | Facility Energy Management | Mfg: Paper | Process Other | New | end use | 22,577 | 11% | 0.06 | 2 | \$8.7 | 73% | 1.26 |
| PECO | Kraft: Efficient Agitator | Mfg: Paper | Process Other | Early | end use | 22,577 | 50% | 1.58 | 10 | \$946 | 22% | 3.09 |
| PECO | Kraft: Efficient Agitator | Mfg: Paper | Process Other | New | end use | 22,577 | 50% | 1.58 | 10 | \$946 | 22% | 3.09 |
| PECO | Kraft: Efficient Agitator | Mfg: Paper | Process Other | ROB | end use | 22,577 | 50% | 1.58 | 10 | \$946 | 22% | 3.09 |
| PECO | Kraft: Effluent Treatment System | Mfg: Paper | Process Other | Early | end use | 22,577 | 15% | 0.48 | 10 | \$251 | 22% | 3.30 |
| PECO | Kraft: Effluent Treatment System | Mfg: Paper | Process Other | New | end use | 22,577 | 15% | 0.48 | 10 | \$251 | 22% | 3.30 |
| PECO | Kraft: Effluent Treatment System | Mfg: Paper | Process Other | ROB | end use | 22,577 | 15% | 0.48 | 10 | \$251 | 22% | 3.30 |
| PECO | Mech Pulp: Premium Process | Mfg: Paper | Process Other | Early | end use | 22,577 | 0.2% | 0.01 | 5 | \$4.3 | 31% | 1.39 |
| PECO | Mech Pulp: Premium Process | Mfg: Paper | Process Other | New | end use | 22,577 | 0.2% | 0.01 | 5 | \$4.3 | 31% | 1.38 |
| PECO | Mech Pulp: Premium Process | Mfg: Paper | Process Other | ROB | end use | 22,577 | 0.2% | 0.01 | 5 | \$4.3 | 31% | 1.38 |
| PECO | Mech Pulp: Refiner Plate Improvement | Mfg: Paper | Process Other | Early | end use | 22,577 | 0.4% | 0.01 | 1 | \$3.6 | 31% | 0.53 |
| PECO | Mech Pulp: Refiner Plate Improvement | Mfg: Paper | Process Other | New | end use | 22,577 | 0.4% | 0.01 | 1 | \$3.6 | 31% | 0.54 |
| PECO | Mech Pulp: Refiner Plate Improvement | Mfg: Paper | Process Other | ROB | end use | 22,577 | 0.4% | 0.01 | 1 | \$3.6 | 31% | 0.53 |
| PECO | Mech Pulp: Refiner Replacement | Mfg: Paper | Process Other | Early | end use | 22,577 | 10% | 0.32 | 12 | \$1,332 | 31% | 0.84 |
| PECO | Mech Pulp: Refiner Replacement | Mfg: Paper | Process Other | New | end use | 22,577 | 10% | 0.32 | 12 | \$1,332 | 31% | 0.84 |
| PECO | Mech Pulp: Refiner Replacement | Mfg: Paper | Process Other | ROB | end use | 22,577 | 10% | 0.32 | 12 | \$1,332 | 31% | 0.84 |
| PECO | Paper: Efficient Pulp Screen | Mfg: Paper | Process Other | Early | end use | 22,577 | 15% | 0.48 | 10 | \$613 | 31% | 1.90 |
| PECO | Paper: Efficient Pulp Screen | Mfg: Paper | Process Other | New | end use | 22,577 | 15% | 0.48 | 10 | \$613 | 31% | 1.90 |
| PECO | Paper: Efficient Pulp Screen | Mfg: Paper | Process Other | ROB | end use | 22,577 | 15% | 0.48 | 10 | \$613 | 31% | 1.90 |
| PECO | Adjustable speed drive on compressors | Mfg: Paper | Process Refrigeration | Early | end use | 5,484 | 12% | 0.09 | 10 | \$101 | 30% | 1.92 |
| PECO | Adjustable speed drive on compressors | Mfg: Paper | Process Refrigeration | New | end use | 5,484 | 12% | 0.09 | 10 | \$101 | 30% | 1.92 |
| PECO | Adjustable speed drive on compressors | Mfg: Paper | Process Refrigeration | ROB | end use | 5,484 | 12% | 0.09 | 10 | \$101 | 30% | 1.92 |
| PECO | Cooling Tower Optimization | Mfg: Paper | Process Refrigeration | Existing | building | 5,484 | 20% | 0.39 | 10 | \$34 | 15% | 5.57 |
| PECO | Optimization of operating parameters | Mfg: Paper | Process Refrigeration | Existing | end use | 5,484 | 15% | 0.11 | 3 | \$44 | 27% | 1.12 |
| PECO | Optimization of operating parameters | Mfg: Paper | Process Refrigeration | New | end use | 5,484 | 13% | 0.11 | 3 | \$44 | 27% | 1.09 |
| PECO | Synchronous Belts | Mfg: Paper | Process Refrigeration | Early | end use | 5,484 | 1.2% | 0.01 | 10 | \$8.1 | 30% | 2.23 |
| PECO | Synchronous Belts | Mfg: Paper | Process Refrigeration | New | end use | 5,484 | 1.2% | 0.01 | 10 | \$8.1 | 30% | 2.23 |
| PECO | Synchronous Belts | Mfg: Paper | Process Refrigeration | ROB | end use | 5,484 | 1.2% | 0.01 | 10 | \$8.1 | 30% | 2.23 |
| PECO | VFD on Cooling Tower Fan | Mfg: Paper | Process Refrigeration | Early | motor | 5,484 | 21% | 0.35 | 15 | \$364 | 20% | 1.93 |
| PECO | VFD on Cooling Tower Fan | Mfg: Paper | Process Refrigeration | New | motor | 5,484 | 22% | 0.35 | 15 | \$371 | 20% | 1.92 |
| PECO | VFD on Cooling Tower Fan | Mfg: Paper | Process Refrigeration | ROB | motor | 5,484 | 22% | 0.35 | 15 | \$371 | 20% | 1.92 |
| PECO | Facility Energy Management | Mfg: Paper | Pumps | Existing | end use | 529,291 | 12% | 1.27 | 2 | \$204 | 69% | 1.19 |
| PECO | Facility Energy Management | Mfg: Paper | Pumps | New | end use | 529,291 | 11% | 1.27 | 2 | \$204 | 69% | 1.19 |
| PECO | HE Motors | Mfg: Paper | Pumps | Early | end use | 529,291 | 2.0% | 1.41 | 15 | \$3,151 | 73% | 1.70 |
| PECO | HE Motors | Mfg: Paper | Pumps | New | end use | 529,291 | 2.0% | 1.41 | 15 | \$3,151 | 73% | 1.70 |
| PECO | HE Motors | Mfg: Paper | Pumps | ROB | end use | 529,291 | 2.0% | 1.41 | 15 | \$3,151 | 73% | 1.70 |
| PECO | Motor rewinds | Mfg: Paper | Pumps | Existing | end use | 529,291 | 1.1% | 0.41 | 9 | \$753 | 11% | 1.94 |
| PECO | Motor rewinds | Mfg: Paper | Pumps | New | end use | 529,291 | 1.3% | 0.41 | 9 | \$753 | 11% | 2.13 |
| PECO | Pump Equipment Upgrade | Mfg: Paper | Pumps | Early | end use | 529,291 | 20% | 13.77 | 12 | \$13,232 | 81% | 2.66 |
| PECO | Pump Equipment Upgrade | Mfg: Paper | Pumps | New | end use | 529,291 | 20% | 13.77 | 12 | \$13,232 | 81% | 2.66 |
| PECO | Pump Equipment Upgrade | Mfg: Paper | Pumps | ROB | end use | 529,291 | 20% | 13.77 | 12 | \$13,232 | 81% | 2.66 |
| PECO | Pump System Optimization | Mfg: Paper | Pumps | Existing | end use | 529,291 | 8.7% | 5.99 | 12 | \$9,691 | 38% | 1.85 |
| PECO | Pump System Optimization | Mfg: Paper | Pumps | New | end use | 529,291 | 8.7% | 5.99 | 12 | \$9,691 | 38% | 1.85 |
| PECO | Synchronous Belts | Mfg: Paper | Pumps | Early | end use | 529,291 | 1.2% | 0.80 | 10 | \$780 | 61% | 2.28 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|--|---------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Synchronous Belts | Mfg: Paper | Pumps | New | end use | 529,291 | 1.2% | 0.80 | 10 | \$780 | 61% | 2.28 |
| PECO | Synchronous Belts | Mfg: Paper | Pumps | ROB | end use | 529,291 | 1.2% | 0.80 | 10 | \$780 | 61% | 2.28 |
| PECO | Circulating Fans | Mfg: Plastics | Fans | Early | end use | 279,180 | 5.0% | 1.66 | 10 | \$1,700 | 68% | 2.31 |
| PECO | Circulating Fans | Mfg: Plastics | Fans | New | end use | 279,180 | 5.0% | 1.66 | 10 | \$1,700 | 68% | 2.32 |
| PECO | Circulating Fans | Mfg: Plastics | Fans | ROB | end use | 279,180 | 5.0% | 1.66 | 10 | \$1,700 | 68% | 2.31 |
| PECO | Facility Energy Management | Mfg: Plastics | Fans | Existing | end use | 279,180 | 3.1% | 0.61 | 2 | \$108 | 77% | 1.12 |
| PECO | Facility Energy Management | Mfg: Plastics | Fans | New | end use | 279,180 | 2.5% | 0.61 | 2 | \$108 | 77% | 1.10 |
| PECO | HE Motors | Mfg: Plastics | Fans | Early | end use | 279,180 | 2.0% | 0.68 | 15 | \$1,662 | 77% | 1.68 |
| PECO | HE Motors | Mfg: Plastics | Fans | New | end use | 279,180 | 2.0% | 0.68 | 15 | \$1,662 | 77% | 1.68 |
| PECO | HE Motors | Mfg: Plastics | Fans | ROB | end use | 279,180 | 2.0% | 0.68 | 15 | \$1,662 | 77% | 1.68 |
| PECO | Improved Controls - Fans | Mfg: Plastics | Fans | Existing | end use | 279,180 | 7.1% | 2.36 | 10 | \$1,082 | 88% | 3.55 |
| PECO | Improved Controls - Fans | Mfg: Plastics | Fans | New | end use | 279,180 | 7.1% | 2.36 | 10 | \$1,082 | 88% | 3.55 |
| PECO | Properly Sized Fans | Mfg: Plastics | Fans | Early | end use | 279,180 | 13% | 4.37 | 10 | \$5,718 | 41% | 1.96 |
| PECO | Properly Sized Fans | Mfg: Plastics | Fans | New | end use | 279,180 | 13% | 4.37 | 10 | \$5,718 | 41% | 1.96 |
| PECO | Properly Sized Fans | Mfg: Plastics | Fans | ROB | end use | 279,180 | 13% | 4.37 | 10 | \$5,718 | 41% | 1.96 |
| PECO | Synchronous Belts | Mfg: Plastics | Fans | Early | end use | 279,180 | 1.2% | 0.39 | 10 | \$411 | 41% | 2.25 |
| PECO | Synchronous Belts | Mfg: Plastics | Fans | New | end use | 279,180 | 1.2% | 0.39 | 10 | \$411 | 41% | 2.25 |
| PECO | Synchronous Belts | Mfg: Plastics | Fans | ROB | end use | 279,180 | 1.2% | 0.39 | 10 | \$411 | 41% | 2.25 |
| PECO | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Plastics | HVAC | Early | unit (ton) | 166,249 | 9.2% | 3.96 | 15 | \$30,298 | 28% | 0.34 |
| PECO | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Plastics | HVAC | New | unit (ton) | 166,249 | 4.1% | 1.78 | 15 | \$7,341 | 28% | 0.62 |
| PECO | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Plastics | HVAC | ROB | unit (ton) | 166,249 | 4.1% | 1.78 | 15 | \$7,341 | 28% | 0.62 |
| PECO | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Plastics | HVAC | Early | unit (ton) | 166,249 | 12% | 5.35 | 15 | \$35,718 | 28% | 0.39 |
| PECO | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Plastics | HVAC | New | unit (ton) | 166,249 | 7.7% | 3.32 | 15 | \$15,461 | 28% | 0.55 |
| PECO | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Plastics | HVAC | ROB | unit (ton) | 166,249 | 7.7% | 3.32 | 15 | \$15,461 | 28% | 0.55 |
| PECO | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Plastics | HVAC | Early | unit (ton) | 166,249 | 15% | 6.57 | 15 | \$41,138 | 29% | 0.42 |
| PECO | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Plastics | HVAC | New | unit (ton) | 166,249 | 11% | 4.67 | 15 | \$23,581 | 29% | 0.51 |
| PECO | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Plastics | HVAC | ROB | unit (ton) | 166,249 | 11% | 4.67 | 15 | \$23,581 | 29% | 0.51 |
| PECO | >760k min 10.2 EER Air Conditioner | Mfg: Plastics | HVAC | Early | unit (ton) | 166,249 | 2.1% | 0.92 | 15 | \$52,762 | 35% | 0.05 |
| PECO | >760k min 10.2 EER Air Conditioner | Mfg: Plastics | HVAC | New | unit (ton) | 166,249 | 2.8% | 1.22 | 15 | \$4,769 | 35% | 0.65 |
| PECO | >760k min 10.2 EER Air Conditioner | Mfg: Plastics | HVAC | ROB | unit (ton) | 166,249 | 2.8% | 1.22 | 15 | \$4,769 | 35% | 0.65 |
| PECO | 135-240k min 12 EER Air Conditioner | Mfg: Plastics | HVAC | Early | unit (ton) | 166,249 | 10% | 4.51 | 15 | \$57,133 | 35% | 0.21 |
| PECO | 135-240k min 12 EER Air Conditioner | Mfg: Plastics | HVAC | New | unit (ton) | 166,249 | 5.8% | 2.49 | 15 | \$6,746 | 35% | 0.91 |
| PECO | 135-240k min 12 EER Air Conditioner | Mfg: Plastics | HVAC | ROB | unit (ton) | 166,249 | 5.8% | 2.49 | 15 | \$6,746 | 35% | 0.91 |
| PECO | 240k-760k min 11 EER Air Conditioner | Mfg: Plastics | HVAC | Early | unit (ton) | 166,249 | 5.2% | 2.25 | 15 | \$52,795 | 35% | 0.11 |
| PECO | 240k-760k min 11 EER Air Conditioner | Mfg: Plastics | HVAC | New | unit (ton) | 166,249 | 5.3% | 2.30 | 15 | \$5,656 | 35% | 1.00 |
| PECO | 240k-760k min 11 EER Air Conditioner | Mfg: Plastics | HVAC | ROB | unit (ton) | 166,249 | 5.3% | 2.30 | 15 | \$5,656 | 35% | 1.00 |
| PECO | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Plastics | HVAC | Early | unit (ton) | 166,249 | 9.7% | 4.19 | 15 | \$58,499 | 35% | 0.19 |
| PECO | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Plastics | HVAC | New | unit (ton) | 166,249 | 3.8% | 1.66 | 15 | \$8,346 | 35% | 0.51 |
| PECO | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Plastics | HVAC | ROB | unit (ton) | 166,249 | 3.8% | 1.66 | 15 | \$8,346 | 35% | 0.51 |
| PECO | Ceiling Insualtions (Going upto R 20) | Mfg: Plastics | HVAC | Existing | building | 166,249 | 5.9% | 2.47 | 15 | \$503,709 | 71% | 0.01 |
| PECO | Ceiling Insualtions (Going upto R 20) | Mfg: Plastics | HVAC | New | building | 166,249 | 3.7% | 1.55 | 15 | \$478,789 | 94% | 0.01 |
| PECO | Chiller Tuneup/Diagnostics | Mfg: Plastics | HVAC | Existing | building | 166,249 | 8.0% | 4.88 | 10 | \$424,508 | 59% | 0.02 |
| PECO | Chiller Tuneup/Diagnostics | Mfg: Plastics | HVAC | New | building | 166,249 | 8.0% | 4.89 | 10 | \$424,508 | 59% | 0.02 |
| PECO | Cooling Tower Optimization | Mfg: Plastics | HVAC | Existing | building | 166,249 | 20% | 11.90 | 10 | \$1,020 | 12% | 5.50 |
| PECO | Duct Insulation, Add R8 | Mfg: Plastics | HVAC | Existing | building | 166,249 | 1.5% | 0.53 | 15 | \$1,321 | 18% | 1.16 |
| PECO | Duct Insulation, Add R8 | Mfg: Plastics | HVAC | New | building | 166,249 | 1.5% | 0.53 | 15 | \$1,321 | 9% | 1.16 |
| PECO | Ductless Heat Pump | Mfg: Plastics | HVAC | Early | heat pump | 166,249 | 0.8% | 0.31 | 15 | \$13,144 | 83% | 0.07 |
| PECO | Ductless Heat Pump | Mfg: Plastics | HVAC | New | heat pump | 166,249 | 0.4% | 0.16 | 15 | \$3,817 | 83% | 0.13 |
| PECO | Ductless Heat Pump | Mfg: Plastics | HVAC | ROB | heat pump | 166,249 | 0.4% | 0.16 | 15 | \$3,817 | 83% | 0.13 |
| PECO | DX Coil Cleaning | Mfg: Plastics | HVAC | Existing | building | 166,249 | 13% | 7.63 | 1 | \$1,593 | 73% | 0.46 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---|---------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | DX Coil Cleaning | Mfg: Plastics | HVAC | New | building | 166,249 | 13% | 7.62 | 1 | \$1,593 | 73% | 0.46 |
| PECO | Efficient Unit Heating System | Mfg: Plastics | HVAC | Early | heater | 166,249 | 6.9% | 0.10 | 15 | \$8,975 | 83% | 0.67 |
| PECO | Efficient Unit Heating System | Mfg: Plastics | HVAC | New | heater | 166,249 | 4.0% | 0.05 | 15 | \$6,122 | 83% | 0.57 |
| PECO | Efficient Unit Heating System | Mfg: Plastics | HVAC | ROB | heater | 166,249 | 4.0% | 0.05 | 15 | \$6,122 | 83% | 0.57 |
| PECO | Ground Source Heat Pump (Closed Loop) | Mfg: Plastics | HVAC | Early | heat pump | 166,249 | 1.3% | 0.48 | 15 | \$27,292 | 19% | 0.05 |
| PECO | Ground Source Heat Pump (Closed Loop) | Mfg: Plastics | HVAC | New | heat pump | 166,249 | 1.0% | 0.38 | 15 | \$10,776 | 19% | 0.11 |
| PECO | Ground Source Heat Pump (Closed Loop) | Mfg: Plastics | HVAC | ROB | heat pump | 166,249 | 1.0% | 0.38 | 15 | \$10,776 | 19% | 0.11 |
| PECO | Ground Source Heat Pump (Open Loop) | Mfg: Plastics | HVAC | Early | heat pump | 166,249 | 1.3% | 0.48 | 15 | \$17,479 | 19% | 0.08 |
| PECO | Ground Source Heat Pump (Open Loop) | Mfg: Plastics | HVAC | New | heat pump | 166,249 | 1.0% | 0.38 | 15 | \$371 | 19% | 2.37 |
| PECO | Ground Source Heat Pump (Open Loop) | Mfg: Plastics | HVAC | ROB | heat pump | 166,249 | 1.0% | 0.38 | 15 | \$371 | 19% | 2.37 |
| PECO | HE Air Cooled Chiller, 100 Tons | Mfg: Plastics | HVAC | Early | unit (ton) | 166,249 | 1.5% | 0.55 | 15 | \$193,392 | 89% | 0.01 |
| PECO | HE Air Cooled Chiller, 100 Tons | Mfg: Plastics | HVAC | New | unit (ton) | 166,249 | 0.4% | 0.15 | 15 | \$28,174 | 89% | 0.02 |
| PECO | HE Air Cooled Chiller, 100 Tons | Mfg: Plastics | HVAC | ROB | unit (ton) | 166,249 | 0.4% | 0.15 | 15 | \$28,174 | 89% | 0.02 |
| PECO | HE Air Cooled Chiller, 150 Tons | Mfg: Plastics | HVAC | Early | unit (ton) | 166,249 | 1.4% | 0.54 | 15 | \$167,047 | 89% | 0.01 |
| PECO | HE Air Cooled Chiller, 150 Tons | Mfg: Plastics | HVAC | New | unit (ton) | 166,249 | 0.3% | 0.11 | 15 | \$13,836 | 89% | 0.02 |
| PECO | HE Air Cooled Chiller, 150 Tons | Mfg: Plastics | HVAC | ROB | unit (ton) | 166,249 | 0.3% | 0.11 | 15 | \$13,836 | 89% | 0.02 |
| PECO | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Plastics | HVAC | Early | heat pump | 166,249 | 1.4% | 0.51 | 12 | \$7,124 | 81% | 0.18 |
| PECO | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Plastics | HVAC | Early | heat pump | 166,249 | 1.1% | 0.42 | 12 | \$5,205 | 81% | 0.20 |
| PECO | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Plastics | HVAC | New | heat pump | 166,249 | 1.0% | 0.38 | 12 | \$3,181 | 81% | 0.30 |
| PECO | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Plastics | HVAC | New | heat pump | 166,249 | 0.8% | 0.28 | 12 | \$1,112 | 81% | 0.61 |
| PECO | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Plastics | HVAC | ROB | heat pump | 166,249 | 1.0% | 0.38 | 12 | \$3,181 | 81% | 0.30 |
| PECO | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Plastics | HVAC | ROB | heat pump | 166,249 | 0.8% | 0.28 | 12 | \$1,112 | 81% | 0.61 |
| PECO | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Plastics | HVAC | Early | unit (ton) | 166,249 | 1.6% | 0.59 | 15 | \$15,345 | 89% | 0.12 |
| PECO | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Plastics | HVAC | New | unit (ton) | 166,249 | 0.9% | 0.34 | 15 | \$5,104 | 89% | 0.20 |
| PECO | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Plastics | HVAC | ROB | unit (ton) | 166,249 | 0.9% | 0.34 | 15 | \$5,104 | 89% | 0.20 |
| PECO | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Plastics | HVAC | Early | unit (ton) | 166,249 | 1.4% | 0.53 | 15 | \$14,986 | 89% | 0.11 |
| PECO | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Plastics | HVAC | New | unit (ton) | 166,249 | 1.0% | 0.37 | 15 | \$2,927 | 89% | 0.37 |
| PECO | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Plastics | HVAC | ROB | unit (ton) | 166,249 | 1.4% | 0.53 | 15 | \$2,688 | 89% | 0.56 |
| PECO | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Plastics | HVAC | Early | unit (ton) | 166,249 | 1.4% | 0.52 | 15 | \$17,737 | 89% | 0.09 |
| PECO | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Plastics | HVAC | New | unit (ton) | 166,249 | 0.9% | 0.33 | 15 | \$7,468 | 89% | 0.13 |
| PECO | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Plastics | HVAC | ROB | unit (ton) | 166,249 | 1.4% | 0.52 | 15 | \$6,759 | 89% | 0.23 |
| PECO | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Plastics | HVAC | Early | unit (ton) | 166,249 | 1.4% | 0.52 | 15 | \$17,085 | 89% | 0.09 |
| PECO | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Plastics | HVAC | New | unit (ton) | 166,249 | 0.9% | 0.33 | 15 | \$6,491 | 89% | 0.15 |
| PECO | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Plastics | HVAC | ROB | unit (ton) | 166,249 | 1.4% | 0.52 | 15 | \$5,875 | 89% | 0.26 |
| PECO | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Plastics | HVAC | Early | unit (ton) | 166,249 | 1.8% | 0.67 | 15 | \$18,410 | 89% | 0.11 |
| PECO | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Plastics | HVAC | New | unit (ton) | 166,249 | 0.5% | 0.21 | 15 | \$11,400 | 89% | 0.05 |
| PECO | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Plastics | HVAC | ROB | unit (ton) | 166,249 | 1.8% | 0.67 | 15 | \$8,852 | 89% | 0.23 |
| PECO | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Plastics | HVAC | Early | unit (ton) | 166,249 | 2.1% | 0.80 | 15 | \$16,933 | 89% | 0.14 |
| PECO | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Plastics | HVAC | New | unit (ton) | 166,249 | 0.8% | 0.29 | 15 | \$6,795 | 89% | 0.13 |
| PECO | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Plastics | HVAC | ROB | unit (ton) | 166,249 | 0.8% | 0.29 | 15 | \$6,795 | 89% | 0.13 |
| PECO | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Plastics | HVAC | Early | unit (ton) | 166,249 | 2.4% | 0.90 | 15 | \$14,352 | 89% | 0.19 |
| PECO | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Plastics | HVAC | New | unit (ton) | 166,249 | 0.9% | 0.34 | 15 | \$3,611 | 89% | 0.28 |
| PECO | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Plastics | HVAC | ROB | unit (ton) | 166,249 | 2.4% | 0.90 | 15 | \$2,575 | 89% | 0.96 |
| PECO | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Plastics | HVAC | Early | unit (ton) | 166,249 | 1.8% | 0.68 | 15 | \$14,207 | 89% | 0.14 |
| PECO | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Plastics | HVAC | New | unit (ton) | 166,249 | 0.7% | 0.26 | 15 | \$3,978 | 89% | 0.19 |
| PECO | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Plastics | HVAC | ROB | unit (ton) | 166,249 | 1.8% | 0.68 | 15 | \$3,152 | 89% | 0.62 |
| PECO | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Plastics | HVAC | Existing | building | 166,249 | 2.9% | 0.98 | 5 | \$1,764 | 55% | 0.60 |
| PECO | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Plastics | HVAC | New | building | 166,249 | 0.6% | 0.39 | 5 | \$1,058 | 51% | 0.28 |
| PECO | Improved Controls - HVAC | Mfg: Plastics | HVAC | Existing | end use | 166,249 | 22% | 4.99 | 10 | \$1,748 | 76% | 3.67 |
| PECO | Improved Controls - HVAC | Mfg: Plastics | HVAC | New | end use | 166,249 | 21% | 4.99 | 10 | \$1,748 | 76% | 3.63 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---------------------------------------|---------------|----------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Outside Air Economizer | Mfg: Plastics | HVAC | Existing | building | 166,249 | 1.1% | 0.47 | 10 | \$610,831 | 82% | 0.00 |
| PECO | Outside Air Economizer | Mfg: Plastics | HVAC | New | building | 166,249 | 1.1% | 0.47 | 10 | \$610,831 | 82% | 0.00 |
| PECO | Recommissioning | Mfg: Plastics | HVAC | Existing | end use | 166,249 | 5.0% | 1.19 | 10 | \$228 | 88% | 4.48 |
| PECO | Recommissioning | Mfg: Plastics | HVAC | New | end use | 166,249 | 6.3% | 1.19 | 10 | \$228 | 88% | 4.62 |
| PECO | Room AC (with louvered sides) | Mfg: Plastics | HVAC | Early | unit (ton) | 166,249 | 7.7% | 2.89 | 9 | \$13,036 | 78% | 0.42 |
| PECO | Room AC (with louvered sides) | Mfg: Plastics | HVAC | New | unit (ton) | 166,249 | 2.6% | 0.96 | 9 | \$714 | 78% | 1.94 |
| PECO | Room AC (with louvered sides) | Mfg: Plastics | HVAC | ROB | unit (ton) | 166,249 | 2.6% | 0.96 | 9 | \$714 | 78% | 1.94 |
| PECO | Variable Refrigerant Flow Heat Pump | Mfg: Plastics | HVAC | New | measure | 166,249 | 0.1% | 0.04 | 13 | \$1,224 | 43% | 0.10 |
| PECO | Variable Refrigerant Flow Heat Pump | Mfg: Plastics | HVAC | ROB | measure | 166,249 | 0.1% | 0.04 | 13 | \$1,224 | 43% | 0.10 |
| PECO | VFD on Cooling Tower Fan | Mfg: Plastics | HVAC | Early | motor | 166,249 | 21% | 10.48 | 15 | \$7,677 | 15% | 2.53 |
| PECO | VFD on Cooling Tower Fan | Mfg: Plastics | HVAC | New | motor | 166,249 | 22% | 10.48 | 15 | \$7,823 | 15% | 2.52 |
| PECO | VFD on Cooling Tower Fan | Mfg: Plastics | HVAC | ROB | motor | 166,249 | 22% | 10.48 | 15 | \$7,823 | 15% | 2.52 |
| PECO | Wall Insualtions (Going upto R 21) | Mfg: Plastics | HVAC | Existing | building | 166,249 | 19% | 7.95 | 15 | \$118,264 | 26% | 0.18 |
| PECO | Wall Insualtions (Going upto R 21) | Mfg: Plastics | HVAC | New | building | 166,249 | 0.6% | 0.25 | 15 | \$90,714 | 94% | 0.01 |
| PECO | Water Source Heat Pump (4 ton) | Mfg: Plastics | HVAC | Early | heat pump | 166,249 | 1.5% | 0.57 | 15 | \$28,262 | 28% | 0.06 |
| PECO | Water Source Heat Pump (4 ton) | Mfg: Plastics | HVAC | New | heat pump | 166,249 | 1.1% | 0.42 | 15 | \$13,774 | 28% | 0.09 |
| PECO | Water Source Heat Pump (4 ton) | Mfg: Plastics | HVAC | ROB | heat pump | 166,249 | 1.1% | 0.42 | 15 | \$13,774 | 28% | 0.09 |
| PECO | Efficient Metal Halide (High Bay) | Mfg: Plastics | Lighting | Early | end use | 140,042 | 42% | 0.00 | 9 | \$21,883 | 53% | 0.83 |
| PECO | Efficient Metal Halide (High Bay) | Mfg: Plastics | Lighting | New | end use | 140,042 | 41% | 0.00 | 13 | \$584,508 | 61% | 0.05 |
| PECO | Efficient Metal Halide (High Bay) | Mfg: Plastics | Lighting | ROB | end use | 140,042 | 41% | 0.00 | 13 | \$446,714 | 61% | 0.06 |
| PECO | Induction (High Bay) | Mfg: Plastics | Lighting | Early | end use | 140,042 | 94% | 0.00 | 13 | \$65,112 | 95% | 0.88 |
| PECO | Induction (High Bay) | Mfg: Plastics | Lighting | New | end use | 140,042 | 94% | 0.00 | 13 | \$60,961 | 95% | 0.94 |
| PECO | Induction (High Bay) | Mfg: Plastics | Lighting | ROB | end use | 140,042 | 94% | 0.00 | 13 | \$46,332 | 95% | 1.18 |
| PECO | LED (High Bay) | Mfg: Plastics | Lighting | Early | end use | 140,042 | 69% | 0.00 | 14 | \$76,646 | 95% | 0.61 |
| PECO | LED (High Bay) | Mfg: Plastics | Lighting | New | end use | 140,042 | 55% | 0.00 | 14 | \$85,075 | 95% | 0.45 |
| PECO | LED (High Bay) | Mfg: Plastics | Lighting | ROB | end use | 140,042 | 59% | 0.00 | 14 | \$56,055 | 95% | 0.70 |
| PECO | Lighting Controls | Mfg: Plastics | Lighting | Existing | end use | 140,042 | 20% | 0.00 | 6 | \$525,001 | 16% | 0.01 |
| PECO | Lighting Controls | Mfg: Plastics | Lighting | New | end use | 140,042 | 12% | 0.00 | 10 | \$698,423 | 11% | 0.01 |
| PECO | Linear Fluorescent (High Bay) | Mfg: Plastics | Lighting | Early | end use | 140,042 | 17% | 0.00 | 14 | \$16,024 | 98% | 0.70 |
| PECO | Linear Fluorescent (High Bay) | Mfg: Plastics | Lighting | New | end use | 140,042 | 13% | 0.00 | 14 | \$5,082 | 91% | 1.48 |
| PECO | Linear Fluorescent (High Bay) | Mfg: Plastics | Lighting | ROB | end use | 140,042 | 13% | 0.00 | 14 | \$3,253 | 91% | 2.13 |
| PECO | Metal Halide (High Bay) | Mfg: Plastics | Lighting | Early | end use | 140,042 | 62% | 0.00 | 13 | \$96,270 | 38% | 0.42 |
| PECO | Metal Halide (High Bay) | Mfg: Plastics | Lighting | New | end use | 140,042 | 73% | 0.00 | 13 | \$23,017 | 38% | 1.68 |
| PECO | Metal Halide (High Bay) | Mfg: Plastics | Lighting | ROB | end use | 140,042 | 73% | 0.00 | 13 | \$17,493 | 38% | 2.06 |
| PECO | Screw Base CFL | Mfg: Plastics | Lighting | Early | end use | 140,042 | 80% | 0.00 | 7 | \$38,046 | 17% | 0.69 |
| PECO | Screw Base CFL | Mfg: Plastics | Lighting | New | end use | 140,042 | 73% | 0.00 | 9 | \$31,093 | 18% | 0.97 |
| PECO | Screw Base CFL | Mfg: Plastics | Lighting | ROB | end use | 140,042 | 73% | 0.00 | 9 | \$26,025 | 17% | 1.12 |
| PECO | Screw Base LED | Mfg: Plastics | Lighting | Early | end use | 140,042 | 76% | 0.00 | 9 | \$23,349 | 21% | 1.31 |
| PECO | Screw Base LED | Mfg: Plastics | Lighting | New | end use | 140,042 | 77% | 0.00 | 9 | \$13,007 | 20% | 1.99 |
| PECO | Screw Base LED | Mfg: Plastics | Lighting | ROB | end use | 140,042 | 77% | 0.00 | 9 | \$10,326 | 21% | 2.29 |
| PECO | T8 High Performance Linear Florescent | Mfg: Plastics | Lighting | Early | end use | 140,042 | 36% | 0.00 | 14 | \$13,401 | 71% | 1.57 |
| PECO | T8 High Performance Linear Florescent | Mfg: Plastics | Lighting | New | end use | 140,042 | 26% | 0.00 | 14 | \$4,794 | 76% | 2.64 |
| PECO | T8 High Performance Linear Florescent | Mfg: Plastics | Lighting | ROB | end use | 140,042 | 26% | 0.00 | 14 | \$3,644 | 76% | 3.12 |
| PECO | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Plastics | Motors | Early | end use | 88,141 | 0.9% | 0.11 | 15 | \$1,346 | 81% | 0.38 |
| PECO | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Plastics | Motors | New | end use | 88,141 | 0.9% | 0.11 | 15 | \$1,346 | 81% | 0.38 |
| PECO | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Plastics | Motors | ROB | end use | 88,141 | 0.9% | 0.11 | 15 | \$1,346 | 81% | 0.38 |
| PECO | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Plastics | Motors | Early | end use | 88,141 | 0.8% | 0.09 | 15 | \$818 | 73% | 0.51 |
| PECO | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Plastics | Motors | New | end use | 88,141 | 0.8% | 0.09 | 15 | \$818 | 73% | 0.50 |
| PECO | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Plastics | Motors | ROB | end use | 88,141 | 0.8% | 0.09 | 15 | \$818 | 73% | 0.50 |
| PECO | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Plastics | Motors | Early | end use | 88,141 | 0.5% | 0.06 | 15 | \$313 | 81% | 0.76 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|--|---------------|---------|----------|---------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Plastics | Motors | New | end use | 88,141 | 0.5% | 0.06 | 15 | \$313 | 81% | 0.78 |
| PECO | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Plastics | Motors | ROB | end use | 88,141 | 0.5% | 0.06 | 15 | \$313 | 81% | 0.77 |
| PECO | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Plastics | Motors | Early | end use | 88,141 | 0.4% | 0.05 | 15 | \$103 | 73% | 1.83 |
| PECO | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Plastics | Motors | New | end use | 88,141 | 0.4% | 0.05 | 15 | \$103 | 73% | 1.84 |
| PECO | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Plastics | Motors | ROB | end use | 88,141 | 0.4% | 0.05 | 15 | \$103 | 73% | 1.77 |
| PECO | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Plastics | Motors | Early | end use | 88,141 | 0.9% | 0.12 | 15 | \$155 | 47% | 2.50 |
| PECO | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Plastics | Motors | New | end use | 88,141 | 0.9% | 0.12 | 15 | \$155 | 47% | 2.53 |
| PECO | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Plastics | Motors | ROB | end use | 88,141 | 0.9% | 0.12 | 15 | \$155 | 47% | 2.50 |
| PECO | Facility Energy Management | Mfg: Plastics | Motors | Existing | end use | 88,141 | 3.7% | 0.23 | 2 | \$34 | 77% | 1.21 |
| PECO | Facility Energy Management | Mfg: Plastics | Motors | New | end use | 88,141 | 3.5% | 0.23 | 2 | \$34 | 77% | 1.21 |
| PECO | HE Motors | Mfg: Plastics | Motors | Early | end use | 88,141 | 2.0% | 0.26 | 15 | \$525 | 38% | 1.81 |
| PECO | HE Motors | Mfg: Plastics | Motors | New | end use | 88,141 | 2.0% | 0.26 | 15 | \$525 | 38% | 1.81 |
| PECO | HE Motors | Mfg: Plastics | Motors | ROB | end use | 88,141 | 2.0% | 0.26 | 15 | \$525 | 38% | 1.81 |
| PECO | High-Efficiency Ventilation System | Mfg: Plastics | Motors | Early | end use | 88,141 | 5.7% | 0.71 | 10 | \$5,508 | 73% | 0.41 |
| PECO | High-Efficiency Ventilation System | Mfg: Plastics | Motors | New | end use | 88,141 | 5.7% | 0.71 | 10 | \$5,508 | 73% | 0.41 |
| PECO | High-Efficiency Ventilation System | Mfg: Plastics | Motors | ROB | end use | 88,141 | 5.7% | 0.71 | 10 | \$5,508 | 73% | 0.41 |
| PECO | Improved Controls - Motors | Mfg: Plastics | Motors | Existing | end use | 88,141 | 4.0% | 0.50 | 10 | \$383 | 73% | 2.65 |
| PECO | Improved Controls - Motors | Mfg: Plastics | Motors | New | end use | 88,141 | 4.0% | 0.50 | 10 | \$383 | 73% | 2.65 |
| PECO | Motor Management Plan | Mfg: Plastics | Motors | Existing | end use | 88,141 | 3.4% | 0.36 | 10 | \$180 | 73% | 3.59 |
| PECO | Motor Management Plan | Mfg: Plastics | Motors | New | end use | 88,141 | 4.5% | 0.36 | 10 | \$180 | 73% | 3.95 |
| PECO | Motors Other | Mfg: Plastics | Motors | Existing | end use | 88,141 | 1.1% | 0.14 | 15 | \$18 | 83% | 7.39 |
| PECO | Motors Other | Mfg: Plastics | Motors | New | end use | 88,141 | 1.1% | 0.14 | 15 | \$18 | 83% | 7.39 |
| PECO | Motors: Rewind 101-200 HP | Mfg: Plastics | Motors | Existing | end use | 88,141 | 0.9% | 0.07 | 10 | \$111 | 27% | 2.09 |
| PECO | Motors: Rewind 101-200 HP | Mfg: Plastics | Motors | New | end use | 88,141 | 1.5% | 0.07 | 10 | \$111 | 27% | 2.81 |
| PECO | Motors: Rewind 201-500 HP | Mfg: Plastics | Motors | Existing | end use | 88,141 | 1.9% | 0.07 | 8 | \$70 | 27% | 3.23 |
| PECO | Motors: Rewind 201-500 HP | Mfg: Plastics | Motors | New | end use | 88,141 | 1.1% | 0.07 | 8 | \$70 | 27% | 2.64 |
| PECO | Motors: Rewind 20-50 HP | Mfg: Plastics | Motors | Existing | end use | 88,141 | 1.6% | 0.13 | 11 | \$327 | 42% | 1.68 |
| PECO | Motors: Rewind 20-50 HP | Mfg: Plastics | Motors | New | end use | 88,141 | 1.5% | 0.13 | 11 | \$327 | 42% | 1.61 |
| PECO | Motors: Rewind 500+ HP | Mfg: Plastics | Motors | Existing | end use | 88,141 | 0.6% | 0.07 | 8 | \$50 | 11% | 2.29 |
| PECO | Motors: Rewind 500+ HP | Mfg: Plastics | Motors | New | end use | 88,141 | 1.4% | 0.07 | 8 | \$50 | 11% | 3.26 |
| PECO | Motors: Rewind 51-100 HP | Mfg: Plastics | Motors | Existing | end use | 88,141 | 1.6% | 0.08 | 9 | \$162 | 42% | 2.19 |
| PECO | Motors: Rewind 51-100 HP | Mfg: Plastics | Motors | New | end use | 88,141 | 0.6% | 0.08 | 9 | \$162 | 42% | 1.16 |
| PECO | Switch from Belt drive to Direct Drive | Mfg: Plastics | Motors | Early | end use | 88,141 | 7.5% | 0.94 | 12 | \$1,414 | 30% | 1.95 |
| PECO | Switch from Belt drive to Direct Drive | Mfg: Plastics | Motors | New | end use | 88,141 | 7.5% | 0.94 | 12 | \$1,414 | 30% | 1.95 |
| PECO | Switch from Belt drive to Direct Drive | Mfg: Plastics | Motors | ROB | end use | 88,141 | 7.5% | 0.94 | 12 | \$1,414 | 30% | 1.95 |
| PECO | Synchronous Belts | Mfg: Plastics | Motors | Early | end use | 88,141 | 1.2% | 0.15 | 10 | \$130 | 30% | 2.42 |
| PECO | Synchronous Belts | Mfg: Plastics | Motors | New | end use | 88,141 | 1.2% | 0.15 | 10 | \$130 | 30% | 2.42 |
| PECO | Synchronous Belts | Mfg: Plastics | Motors | ROB | end use | 88,141 | 1.2% | 0.15 | 10 | \$130 | 30% | 2.42 |
| PECO | Bldg Improvements | Mfg: Plastics | Other | Existing | end use | 43,245 | 16% | 0.83 | 15 | \$943 | 72% | 3.13 |
| PECO | Bldg Improvements | Mfg: Plastics | Other | New | end use | 43,245 | 16% | 0.83 | 15 | \$943 | 72% | 3.13 |
| PECO | Energy Project Management | Mfg: Plastics | Other | Existing | end use | 43,245 | 29% | 1.49 | 11 | \$1,544 | 63% | 2.63 |
| PECO | Energy Project Management | Mfg: Plastics | Other | New | end use | 43,245 | 31% | 1.49 | 11 | \$1,544 | 63% | 2.69 |
| PECO | Facility Energy Management | Mfg: Plastics | Other | Existing | end use | 43,245 | 5.5% | 0.09 | 2 | \$17 | 76% | 1.23 |
| PECO | Facility Energy Management | Mfg: Plastics | Other | New | end use | 43,245 | 5.7% | 0.09 | 2 | \$17 | 76% | 1.23 |
| PECO | Integrated Plant Energy Management | Mfg: Plastics | Other | Existing | end use | 43,245 | 51% | 2.57 | 11 | \$4,262 | 48% | 1.91 |
| PECO | Integrated Plant Energy Management | Mfg: Plastics | Other | New | end use | 43,245 | 50% | 2.57 | 11 | \$4,262 | 48% | 1.90 |
| PECO | Plant Energy Management | Mfg: Plastics | Other | Existing | end use | 43,245 | 13% | 0.62 | 10 | \$109 | 55% | 5.18 |
| PECO | Plant Energy Management | Mfg: Plastics | Other | New | end use | 43,245 | 13% | 0.62 | 10 | \$109 | 55% | 5.19 |
| PECO | Transformers | Mfg: Plastics | Other | Early | end use | 43,245 | 1.6% | 0.08 | 30 | \$138 | 34% | 3.56 |
| PECO | Transformers | Mfg: Plastics | Other | New | end use | 43,245 | 1.6% | 0.08 | 30 | \$138 | 34% | 3.55 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---------------------------------------|---------------|------------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Transformers | Mfg: Plastics | Other | ROB | end use | 43,245 | 1.6% | 0.08 | 30 | \$138 | 34% | 3.55 |
| PECO | Air Compressor Demand Reduction | Mfg: Plastics | Process Air Compressor | Existing | end use | 2,902 | 26% | 0.10 | 10 | \$43 | 40% | 3.67 |
| PECO | Air Compressor Demand Reduction | Mfg: Plastics | Process Air Compressor | New | end use | 2,902 | 26% | 0.10 | 10 | \$43 | 40% | 3.67 |
| PECO | Facility Energy Management | Mfg: Plastics | Process Air Compressor | Existing | end use | 2,902 | 7.5% | 0.01 | 2 | \$1.1 | 50% | 1.25 |
| PECO | Facility Energy Management | Mfg: Plastics | Process Air Compressor | New | end use | 2,902 | 6.9% | 0.01 | 2 | \$1.1 | 50% | 1.24 |
| PECO | HE Compressor motors | Mfg: Plastics | Process Air Compressor | Early | end use | 2,902 | 1.1% | 0.00 | 15 | \$11 | 56% | 1.48 |
| PECO | HE Compressor motors | Mfg: Plastics | Process Air Compressor | New | end use | 2,902 | 1.1% | 0.00 | 15 | \$11 | 56% | 1.49 |
| PECO | HE Compressor motors | Mfg: Plastics | Process Air Compressor | ROB | end use | 2,902 | 1.1% | 0.00 | 15 | \$11 | 56% | 1.50 |
| PECO | Improved Controls - Air Compressor | Mfg: Plastics | Process Air Compressor | Existing | end use | 2,902 | 41% | 0.15 | 10 | \$52 | 19% | 4.13 |
| PECO | Improved Controls - Air Compressor | Mfg: Plastics | Process Air Compressor | New | end use | 2,902 | 41% | 0.15 | 10 | \$52 | 19% | 4.13 |
| PECO | Low Pressure-drop Filters | Mfg: Plastics | Process Air Compressor | Existing | end use | 2,902 | 2.4% | 0.01 | 10 | \$33 | 46% | 0.86 |
| PECO | Low Pressure-drop Filters | Mfg: Plastics | Process Air Compressor | New | end use | 2,902 | 2.9% | 0.01 | 10 | \$33 | 46% | 0.99 |
| PECO | Outside Air Intake | Mfg: Plastics | Process Air Compressor | Existing | end use | 2,902 | 2.3% | 0.01 | 10 | \$19 | 37% | 1.28 |
| PECO | Outside Air Intake | Mfg: Plastics | Process Air Compressor | New | end use | 2,902 | 2.1% | 0.01 | 10 | \$19 | 37% | 1.20 |
| PECO | Receiver Capacity Addition | Mfg: Plastics | Process Air Compressor | Existing | end use | 2,902 | 7.4% | 0.02 | 10 | \$54 | 28% | 1.44 |
| PECO | Receiver Capacity Addition | Mfg: Plastics | Process Air Compressor | New | end use | 2,902 | 6.8% | 0.02 | 10 | \$54 | 28% | 1.36 |
| PECO | Refrigerated Cycling Dryers | Mfg: Plastics | Process Air Compressor | Early | end use | 2,902 | 1.7% | 0.01 | 10 | \$6.7 | 16% | 2.15 |
| PECO | Refrigerated Cycling Dryers | Mfg: Plastics | Process Air Compressor | New | end use | 2,902 | 1.7% | 0.01 | 10 | \$6.7 | 16% | 2.16 |
| PECO | Refrigerated Cycling Dryers | Mfg: Plastics | Process Air Compressor | ROB | end use | 2,902 | 1.7% | 0.01 | 10 | \$6.7 | 16% | 2.15 |
| PECO | VFD Controlled Compressor | Mfg: Plastics | Process Air Compressor | Early | end use | 2,902 | 24% | 0.09 | 10 | \$286 | 22% | 0.92 |
| PECO | VFD Controlled Compressor | Mfg: Plastics | Process Air Compressor | New | end use | 2,902 | 24% | 0.09 | 10 | \$286 | 22% | 0.92 |
| PECO | VFD Controlled Compressor | Mfg: Plastics | Process Air Compressor | ROB | end use | 2,902 | 24% | 0.09 | 10 | \$286 | 22% | 0.92 |
| PECO | Zero Loss Condensate Drain | Mfg: Plastics | Process Air Compressor | Early | end use | 2,902 | 1.8% | 0.01 | 10 | \$17 | 28% | 1.17 |
| PECO | Zero Loss Condensate Drain | Mfg: Plastics | Process Air Compressor | New | end use | 2,902 | 1.8% | 0.01 | 10 | \$17 | 28% | 1.17 |
| PECO | Zero Loss Condensate Drain | Mfg: Plastics | Process Air Compressor | ROB | end use | 2,902 | 1.8% | 0.01 | 10 | \$17 | 28% | 1.17 |
| PECO | Clean Room: Change Filter Strategy | Mfg: Plastics | Process Cooling | Existing | end use | 112,680 | 40% | 9.39 | 1 | \$292 | 17% | 0.78 |
| PECO | Clean Room: Change Filter Strategy | Mfg: Plastics | Process Cooling | New | end use | 112,680 | 40% | 9.39 | 1 | \$292 | 17% | 0.78 |
| PECO | Clean Room: Chiller Optimize | Mfg: Plastics | Process Cooling | Existing | end use | 112,680 | 15% | 3.48 | 10 | \$1,360 | 27% | 3.32 |
| PECO | Clean Room: Chiller Optimize | Mfg: Plastics | Process Cooling | New | end use | 112,680 | 15% | 3.48 | 10 | \$1,360 | 27% | 3.35 |
| PECO | Clean Room: Clean Room HVAC | Mfg: Plastics | Process Cooling | Existing | end use | 112,680 | 9.4% | 2.11 | 20 | \$1,642 | 40% | 3.67 |
| PECO | Clean Room: Clean Room HVAC | Mfg: Plastics | Process Cooling | New | end use | 112,680 | 9.3% | 2.11 | 20 | \$1,642 | 40% | 3.65 |
| PECO | Cooling Tower Optimization | Mfg: Plastics | Process Cooling | Existing | building | 112,680 | 20% | 8.07 | 10 | \$691 | 15% | 5.57 |
| PECO | Equipment: Chillers | Mfg: Plastics | Process Cooling | Early | end use | 112,680 | 18% | 4.20 | 20 | \$5,288 | 50% | 2.37 |
| PECO | Equipment: Chillers | Mfg: Plastics | Process Cooling | New | end use | 112,680 | 18% | 4.20 | 20 | \$5,288 | 50% | 2.37 |
| PECO | Equipment: Chillers | Mfg: Plastics | Process Cooling | ROB | end use | 112,680 | 18% | 4.20 | 20 | \$5,288 | 50% | 2.37 |
| PECO | Facility Energy Management | Mfg: Plastics | Process Cooling | Existing | end use | 112,680 | 9.7% | 0.43 | 2 | \$43 | 63% | 1.28 |
| PECO | Facility Energy Management | Mfg: Plastics | Process Cooling | New | end use | 112,680 | 9.6% | 0.43 | 2 | \$43 | 63% | 1.28 |
| PECO | Improved Controls - Process Cooling | Mfg: Plastics | Process Cooling | Existing | end use | 112,680 | 6.3% | 1.41 | 10 | \$5,950 | 60% | 0.55 |
| PECO | Improved Controls - Process Cooling | Mfg: Plastics | Process Cooling | New | end use | 112,680 | 6.6% | 1.41 | 10 | \$5,950 | 60% | 0.57 |
| PECO | VFD on Cooling Tower Fan | Mfg: Plastics | Process Cooling | Early | motor | 112,680 | 21% | 7.11 | 15 | \$7,482 | 20% | 1.93 |
| PECO | VFD on Cooling Tower Fan | Mfg: Plastics | Process Cooling | New | motor | 112,680 | 22% | 7.11 | 15 | \$7,625 | 20% | 1.92 |
| PECO | VFD on Cooling Tower Fan | Mfg: Plastics | Process Cooling | ROB | motor | 112,680 | 22% | 7.11 | 15 | \$7,625 | 20% | 1.92 |
| PECO | Improved Controls - Process Heating | Mfg: Plastics | Process Heating | Existing | end use | 257,968 | 17% | 6.06 | 10 | \$2,964 | 77% | 3.46 |
| PECO | Improved Controls - Process Heating | Mfg: Plastics | Process Heating | New | end use | 257,968 | 17% | 6.06 | 10 | \$2,964 | 77% | 3.46 |
| PECO | Process Heat O&M | Mfg: Plastics | Process Heating | Existing | end use | 257,968 | 16% | 5.73 | 2 | \$1,791 | 77% | 0.92 |
| PECO | Process Heat O&M | Mfg: Plastics | Process Heating | New | end use | 257,968 | 16% | 5.73 | 2 | \$1,791 | 77% | 0.92 |
| PECO | Facility Energy Management | Mfg: Plastics | Process Other | Existing | end use | 169,981 | 9.8% | 0.44 | 2 | \$65 | 73% | 1.26 |
| PECO | Facility Energy Management | Mfg: Plastics | Process Other | New | end use | 169,981 | 11% | 0.44 | 2 | \$65 | 73% | 1.26 |
| PECO | Adjustable speed drive on compressors | Mfg: Plastics | Process Refrigeration | Early | end use | 57,883 | 12% | 0.99 | 10 | \$1,071 | 30% | 1.92 |
| PECO | Adjustable speed drive on compressors | Mfg: Plastics | Process Refrigeration | New | end use | 57,883 | 12% | 0.99 | 10 | \$1,071 | 30% | 1.92 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|--|---------------|-----------------------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Adjustable speed drive on compressors | Mfg: Plastics | Process Refrigeration | ROB | end use | 57,883 | 12% | 0.99 | 10 | \$1,071 | 30% | 1.92 |
| PECO | Cooling Tower Optimization | Mfg: Plastics | Process Refrigeration | Existing | building | 57,883 | 20% | 4.14 | 10 | \$355 | 15% | 5.57 |
| PECO | Optimization of operating parameters | Mfg: Plastics | Process Refrigeration | Existing | end use | 57,883 | 14% | 1.11 | 3 | \$467 | 27% | 1.11 |
| PECO | Optimization of operating parameters | Mfg: Plastics | Process Refrigeration | New | end use | 57,883 | 14% | 1.11 | 3 | \$467 | 27% | 1.12 |
| PECO | Synchronous Belts | Mfg: Plastics | Process Refrigeration | Early | end use | 57,883 | 1.2% | 0.10 | 10 | \$85 | 30% | 2.23 |
| PECO | Synchronous Belts | Mfg: Plastics | Process Refrigeration | New | end use | 57,883 | 1.2% | 0.10 | 10 | \$85 | 30% | 2.23 |
| PECO | Synchronous Belts | Mfg: Plastics | Process Refrigeration | ROB | end use | 57,883 | 1.2% | 0.10 | 10 | \$85 | 30% | 2.23 |
| PECO | VFD on Cooling Tower Fan | Mfg: Plastics | Process Refrigeration | Early | motor | 57,883 | 21% | 3.65 | 15 | \$3,844 | 20% | 1.93 |
| PECO | VFD on Cooling Tower Fan | Mfg: Plastics | Process Refrigeration | New | motor | 57,883 | 22% | 3.65 | 15 | \$3,917 | 20% | 1.92 |
| PECO | VFD on Cooling Tower Fan | Mfg: Plastics | Process Refrigeration | ROB | motor | 57,883 | 22% | 3.65 | 15 | \$3,917 | 20% | 1.92 |
| PECO | Facility Energy Management | Mfg: Plastics | Pumps | Existing | end use | 494,081 | 13% | 1.18 | 2 | \$190 | 65% | 1.20 |
| PECO | Facility Energy Management | Mfg: Plastics | Pumps | New | end use | 494,081 | 12% | 1.18 | 2 | \$190 | 65% | 1.19 |
| PECO | HE Motors | Mfg: Plastics | Pumps | Early | end use | 494,081 | 2.0% | 1.32 | 15 | \$2,941 | 69% | 1.70 |
| PECO | HE Motors | Mfg: Plastics | Pumps | New | end use | 494,081 | 2.0% | 1.32 | 15 | \$2,941 | 69% | 1.70 |
| PECO | HE Motors | Mfg: Plastics | Pumps | ROB | end use | 494,081 | 2.0% | 1.32 | 15 | \$2,941 | 69% | 1.70 |
| PECO | Motor rewinds | Mfg: Plastics | Pumps | Existing | end use | 494,081 | 1.5% | 0.38 | 9 | \$703 | 11% | 2.31 |
| PECO | Motor rewinds | Mfg: Plastics | Pumps | New | end use | 494,081 | 0.6% | 0.38 | 9 | \$703 | 11% | 1.33 |
| PECO | Pump Equipment Upgrade | Mfg: Plastics | Pumps | Early | end use | 494,081 | 20% | 12.86 | 12 | \$12,352 | 77% | 2.66 |
| PECO | Pump Equipment Upgrade | Mfg: Plastics | Pumps | New | end use | 494,081 | 20% | 12.86 | 12 | \$12,352 | 77% | 2.66 |
| PECO | Pump Equipment Upgrade | Mfg: Plastics | Pumps | ROB | end use | 494,081 | 20% | 12.86 | 12 | \$12,352 | 77% | 2.66 |
| PECO | Pump System Optimization | Mfg: Plastics | Pumps | Existing | end use | 494,081 | 8.7% | 5.59 | 12 | \$9,046 | 36% | 1.85 |
| PECO | Pump System Optimization | Mfg: Plastics | Pumps | New | end use | 494,081 | 8.7% | 5.59 | 12 | \$9,046 | 36% | 1.85 |
| PECO | Synchronous Belts | Mfg: Plastics | Pumps | Early | end use | 494,081 | 1.2% | 0.75 | 10 | \$728 | 57% | 2.28 |
| PECO | Synchronous Belts | Mfg: Plastics | Pumps | New | end use | 494,081 | 1.2% | 0.75 | 10 | \$728 | 57% | 2.28 |
| PECO | Synchronous Belts | Mfg: Plastics | Pumps | ROB | end use | 494,081 | 1.2% | 0.75 | 10 | \$728 | 57% | 2.28 |
| PECO | <65k BTU/hr 14 SEER Air Conditioner | Mining | HVAC | Early | unit (ton) | 16,124 | 9.2% | 0.38 | 15 | \$2,938 | 28% | 0.34 |
| PECO | <65k BTU/hr 14 SEER Air Conditioner | Mining | HVAC | New | unit (ton) | 16,124 | 4.1% | 0.17 | 15 | \$712 | 28% | 0.62 |
| PECO | <65k BTU/hr 14 SEER Air Conditioner | Mining | HVAC | ROB | unit (ton) | 16,124 | 4.1% | 0.17 | 15 | \$712 | 28% | 0.62 |
| PECO | <65k BTU/hr 15 SEER Air Conditioner | Mining | HVAC | Early | unit (ton) | 16,124 | 12% | 0.52 | 15 | \$3,464 | 28% | 0.39 |
| PECO | <65k BTU/hr 15 SEER Air Conditioner | Mining | HVAC | New | unit (ton) | 16,124 | 7.7% | 0.32 | 15 | \$1,499 | 28% | 0.55 |
| PECO | <65k BTU/hr 15 SEER Air Conditioner | Mining | HVAC | ROB | unit (ton) | 16,124 | 7.7% | 0.32 | 15 | \$1,499 | 28% | 0.55 |
| PECO | <65k BTU/hr 16 SEER Air Conditioner | Mining | HVAC | Early | unit (ton) | 16,124 | 15% | 0.64 | 15 | \$3,990 | 29% | 0.42 |
| PECO | <65k BTU/hr 16 SEER Air Conditioner | Mining | HVAC | New | unit (ton) | 16,124 | 11% | 0.45 | 15 | \$2,287 | 29% | 0.51 |
| PECO | <65k BTU/hr 16 SEER Air Conditioner | Mining | HVAC | ROB | unit (ton) | 16,124 | 11% | 0.45 | 15 | \$2,287 | 29% | 0.51 |
| PECO | >760k min 10.2 EER Air Conditioner | Mining | HVAC | Early | unit (ton) | 16,124 | 2.1% | 0.09 | 15 | \$5,117 | 35% | 0.05 |
| PECO | >760k min 10.2 EER Air Conditioner | Mining | HVAC | New | unit (ton) | 16,124 | 2.8% | 0.12 | 15 | \$462 | 35% | 0.65 |
| PECO | >760k min 10.2 EER Air Conditioner | Mining | HVAC | ROB | unit (ton) | 16,124 | 2.8% | 0.12 | 15 | \$462 | 35% | 0.65 |
| PECO | 135-240k min 12 EER Air Conditioner | Mining | HVAC | Early | unit (ton) | 16,124 | 10% | 0.44 | 15 | \$5,541 | 35% | 0.21 |
| PECO | 135-240k min 12 EER Air Conditioner | Mining | HVAC | New | unit (ton) | 16,124 | 5.8% | 0.24 | 15 | \$654 | 35% | 0.91 |
| PECO | 135-240k min 12 EER Air Conditioner | Mining | HVAC | ROB | unit (ton) | 16,124 | 5.8% | 0.24 | 15 | \$654 | 35% | 0.91 |
| PECO | 240k-760k min 11 EER Air Conditioner | Mining | HVAC | Early | unit (ton) | 16,124 | 5.2% | 0.22 | 15 | \$5,120 | 35% | 0.11 |
| PECO | 240k-760k min 11 EER Air Conditioner | Mining | HVAC | New | unit (ton) | 16,124 | 5.3% | 0.22 | 15 | \$549 | 35% | 1.00 |
| PECO | 240k-760k min 11 EER Air Conditioner | Mining | HVAC | ROB | unit (ton) | 16,124 | 5.3% | 0.22 | 15 | \$549 | 35% | 1.00 |
| PECO | 65k-135k BTU/hr 12 EER Air Conditioner | Mining | HVAC | Early | unit (ton) | 16,124 | 9.7% | 0.41 | 15 | \$5,674 | 35% | 0.19 |
| PECO | 65k-135k BTU/hr 12 EER Air Conditioner | Mining | HVAC | New | unit (ton) | 16,124 | 3.8% | 0.16 | 15 | \$809 | 35% | 0.51 |
| PECO | 65k-135k BTU/hr 12 EER Air Conditioner | Mining | HVAC | ROB | unit (ton) | 16,124 | 3.8% | 0.16 | 15 | \$809 | 35% | 0.51 |
| PECO | Ceiling Insualtions (Going upto R 20) | Mining | HVAC | Existing | building | 16,124 | 5.9% | 0.24 | 15 | \$48,852 | 71% | 0.01 |
| PECO | Ceiling Insualtions (Going upto R 20) | Mining | HVAC | New | building | 16,124 | 3.7% | 0.15 | 15 | \$46,435 | 94% | 0.01 |
| PECO | Chiller Tuneup/Diagnostics | Mining | HVAC | Existing | building | 16,124 | 8.0% | 0.47 | 10 | \$41,171 | 59% | 0.02 |
| PECO | Chiller Tuneup/Diagnostics | Mining | HVAC | New | building | 16,124 | 8.0% | 0.47 | 10 | \$41,171 | 59% | 0.02 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---|---------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Cooling Tower Optimization | Mining | HVAC | Existing | building | 16,124 | 20% | 1.15 | 10 | \$99 | 12% | 5.50 |
| PECO | Duct Insulation, Add R8 | Mining | HVAC | Existing | building | 16,124 | 1.5% | 0.05 | 15 | \$128 | 18% | 1.16 |
| PECO | Duct Insulation, Add R8 | Mining | HVAC | New | building | 16,124 | 1.5% | 0.05 | 15 | \$128 | 9% | 1.16 |
| PECO | Ductless Heat Pump | Mining | HVAC | Early | heat pump | 16,124 | 0.8% | 0.03 | 15 | \$1,275 | 83% | 0.07 |
| PECO | Ductless Heat Pump | Mining | HVAC | New | heat pump | 16,124 | 0.4% | 0.02 | 15 | \$370 | 83% | 0.13 |
| PECO | Ductless Heat Pump | Mining | HVAC | ROB | heat pump | 16,124 | 0.4% | 0.02 | 15 | \$370 | 83% | 0.13 |
| PECO | DX Coil Cleaning | Mining | HVAC | Existing | building | 16,124 | 13% | 0.74 | 1 | \$155 | 73% | 0.46 |
| PECO | DX Coil Cleaning | Mining | HVAC | New | building | 16,124 | 13% | 0.74 | 1 | \$155 | 73% | 0.46 |
| PECO | Efficient Unit Heating System | Mining | HVAC | Early | heater | 16,124 | 6.9% | 0.01 | 15 | \$870 | 83% | 0.67 |
| PECO | Efficient Unit Heating System | Mining | HVAC | New | heater | 16,124 | 4.0% | 0.01 | 15 | \$594 | 83% | 0.57 |
| PECO | Efficient Unit Heating System | Mining | HVAC | ROB | heater | 16,124 | 4.0% | 0.01 | 15 | \$594 | 83% | 0.57 |
| PECO | Ground Source Heat Pump (Closed Loop) | Mining | HVAC | Early | heat pump | 16,124 | 1.3% | 0.05 | 15 | \$2,647 | 19% | 0.05 |
| PECO | Ground Source Heat Pump (Closed Loop) | Mining | HVAC | New | heat pump | 16,124 | 1.0% | 0.04 | 15 | \$1,045 | 19% | 0.11 |
| PECO | Ground Source Heat Pump (Closed Loop) | Mining | HVAC | ROB | heat pump | 16,124 | 1.0% | 0.04 | 15 | \$1,045 | 19% | 0.11 |
| PECO | Ground Source Heat Pump (Open Loop) | Mining | HVAC | Early | heat pump | 16,124 | 1.3% | 0.05 | 15 | \$1,695 | 19% | 0.08 |
| PECO | Ground Source Heat Pump (Open Loop) | Mining | HVAC | New | heat pump | 16,124 | 1.0% | 0.04 | 15 | \$36 | 19% | 2.37 |
| PECO | Ground Source Heat Pump (Open Loop) | Mining | HVAC | ROB | heat pump | 16,124 | 1.0% | 0.04 | 15 | \$36 | 19% | 2.37 |
| PECO | HE Air Cooled Chiller, 100 Tons | Mining | HVAC | Early | unit (ton) | 16,124 | 1.5% | 0.05 | 15 | \$18,756 | 89% | 0.01 |
| PECO | HE Air Cooled Chiller, 100 Tons | Mining | HVAC | New | unit (ton) | 16,124 | 0.4% | 0.01 | 15 | \$2,732 | 89% | 0.02 |
| PECO | HE Air Cooled Chiller, 100 Tons | Mining | HVAC | ROB | unit (ton) | 16,124 | 0.4% | 0.01 | 15 | \$2,732 | 89% | 0.02 |
| PECO | HE Air Cooled Chiller, 150 Tons | Mining | HVAC | Early | unit (ton) | 16,124 | 1.4% | 0.05 | 15 | \$16,201 | 89% | 0.01 |
| PECO | HE Air Cooled Chiller, 150 Tons | Mining | HVAC | New | unit (ton) | 16,124 | 0.3% | 0.01 | 15 | \$1,342 | 89% | 0.02 |
| PECO | HE Air Cooled Chiller, 150 Tons | Mining | HVAC | ROB | unit (ton) | 16,124 | 0.3% | 0.01 | 15 | \$1,342 | 89% | 0.02 |
| PECO | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mining | HVAC | Early | heat pump | 16,124 | 1.4% | 0.05 | 12 | \$691 | 81% | 0.18 |
| PECO | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mining | HVAC | Early | heat pump | 16,124 | 1.1% | 0.04 | 12 | \$505 | 81% | 0.20 |
| PECO | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mining | HVAC | New | heat pump | 16,124 | 1.0% | 0.04 | 12 | \$308 | 81% | 0.30 |
| PECO | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mining | HVAC | New | heat pump | 16,124 | 0.8% | 0.03 | 12 | \$108 | 81% | 0.61 |
| PECO | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mining | HVAC | ROB | heat pump | 16,124 | 1.0% | 0.04 | 12 | \$308 | 81% | 0.30 |
| PECO | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mining | HVAC | ROB | heat pump | 16,124 | 0.8% | 0.03 | 12 | \$108 | 81% | 0.61 |
| PECO | HE Water Cooled Centrifugal Chiller, 175 Tons | Mining | HVAC | Early | unit (ton) | 16,124 | 1.6% | 0.06 | 15 | \$1,488 | 89% | 0.12 |
| PECO | HE Water Cooled Centrifugal Chiller, 175 Tons | Mining | HVAC | New | unit (ton) | 16,124 | 0.9% | 0.03 | 15 | \$495 | 89% | 0.20 |
| PECO | HE Water Cooled Centrifugal Chiller, 175 Tons | Mining | HVAC | ROB | unit (ton) | 16,124 | 0.9% | 0.03 | 15 | \$495 | 89% | 0.20 |
| PECO | HE Water Cooled Centrifugal Chiller, 300 Tons | Mining | HVAC | Early | unit (ton) | 16,124 | 1.4% | 0.05 | 15 | \$1,453 | 89% | 0.11 |
| PECO | HE Water Cooled Centrifugal Chiller, 300 Tons | Mining | HVAC | New | unit (ton) | 16,124 | 1.0% | 0.04 | 15 | \$284 | 89% | 0.37 |
| PECO | HE Water Cooled Centrifugal Chiller, 300 Tons | Mining | HVAC | ROB | unit (ton) | 16,124 | 1.4% | 0.05 | 15 | \$261 | 89% | 0.56 |
| PECO | HE Water Cooled Centrifugal Chiller, 500 Tons | Mining | HVAC | Early | unit (ton) | 16,124 | 1.4% | 0.05 | 15 | \$1,720 | 89% | 0.09 |
| PECO | HE Water Cooled Centrifugal Chiller, 500 Tons | Mining | HVAC | New | unit (ton) | 16,124 | 0.9% | 0.03 | 15 | \$724 | 89% | 0.13 |
| PECO | HE Water Cooled Centrifugal Chiller, 500 Tons | Mining | HVAC | ROB | unit (ton) | 16,124 | 1.4% | 0.05 | 15 | \$656 | 89% | 0.23 |
| PECO | HE Water Cooled Centrifugal Chiller, 600 Tons | Mining | HVAC | Early | unit (ton) | 16,124 | 1.4% | 0.05 | 15 | \$1,657 | 89% | 0.09 |
| PECO | HE Water Cooled Centrifugal Chiller, 600 Tons | Mining | HVAC | New | unit (ton) | 16,124 | 0.9% | 0.03 | 15 | \$630 | 89% | 0.15 |
| PECO | HE Water Cooled Centrifugal Chiller, 600 Tons | Mining | HVAC | ROB | unit (ton) | 16,124 | 1.4% | 0.05 | 15 | \$570 | 89% | 0.26 |
| PECO | HE Water Cooled Reciprocating Chiller, 100 Tons | Mining | HVAC | Early | unit (ton) | 16,124 | 1.8% | 0.07 | 15 | \$1,785 | 89% | 0.11 |
| PECO | HE Water Cooled Reciprocating Chiller, 100 Tons | Mining | HVAC | New | unit (ton) | 16,124 | 0.5% | 0.02 | 15 | \$1,106 | 89% | 0.05 |
| PECO | HE Water Cooled Reciprocating Chiller, 100 Tons | Mining | HVAC | ROB | unit (ton) | 16,124 | 1.8% | 0.07 | 15 | \$858 | 89% | 0.23 |
| PECO | HE Water Cooled Reciprocating Chiller, 175 Tons | Mining | HVAC | Early | unit (ton) | 16,124 | 2.1% | 0.08 | 15 | \$1,642 | 89% | 0.14 |
| PECO | HE Water Cooled Reciprocating Chiller, 175 Tons | Mining | HVAC | New | unit (ton) | 16,124 | 0.8% | 0.03 | 15 | \$659 | 89% | 0.13 |
| PECO | HE Water Cooled Reciprocating Chiller, 175 Tons | Mining | HVAC | ROB | unit (ton) | 16,124 | 0.8% | 0.03 | 15 | \$659 | 89% | 0.13 |
| PECO | HE Water Cooled Reciprocating Chiller, 300 Tons | Mining | HVAC | Early | unit (ton) | 16,124 | 2.4% | 0.09 | 15 | \$1,392 | 89% | 0.19 |
| PECO | HE Water Cooled Reciprocating Chiller, 300 Tons | Mining | HVAC | New | unit (ton) | 16,124 | 0.9% | 0.03 | 15 | \$350 | 89% | 0.28 |
| PECO | HE Water Cooled Reciprocating Chiller, 300 Tons | Mining | HVAC | ROB | unit (ton) | 16,124 | 2.4% | 0.09 | 15 | \$250 | 89% | 0.96 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|--|---------|----------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | HE Water Cooled Reciprocating Chiller, 50 Tons | Mining | HVAC | Early | unit (ton) | 16,124 | 1.8% | 0.07 | 15 | \$1,378 | 89% | 0.14 |
| PECO | HE Water Cooled Reciprocating Chiller, 50 Tons | Mining | HVAC | New | unit (ton) | 16,124 | 0.7% | 0.02 | 15 | \$386 | 89% | 0.19 |
| PECO | HE Water Cooled Reciprocating Chiller, 50 Tons | Mining | HVAC | ROB | unit (ton) | 16,124 | 1.8% | 0.07 | 15 | \$306 | 89% | 0.62 |
| PECO | HVAC Diagnostic/Air Conditioner Tune Up | Mining | HVAC | Existing | building | 16,124 | 2.9% | 0.09 | 5 | \$171 | 55% | 0.60 |
| PECO | HVAC Diagnostic/Air Conditioner Tune Up | Mining | HVAC | New | building | 16,124 | 0.6% | 0.04 | 5 | \$103 | 51% | 0.28 |
| PECO | Outside Air Economizer | Mining | HVAC | Existing | building | 16,124 | 1.1% | 0.05 | 10 | \$59,241 | 82% | 0.00 |
| PECO | Outside Air Economizer | Mining | HVAC | New | building | 16,124 | 1.1% | 0.05 | 10 | \$59,241 | 82% | 0.00 |
| PECO | Room AC (with louvered sides) | Mining | HVAC | Early | unit (ton) | 16,124 | 7.7% | 0.28 | 9 | \$1,264 | 78% | 0.42 |
| PECO | Room AC (with louvered sides) | Mining | HVAC | New | unit (ton) | 16,124 | 2.6% | 0.09 | 9 | \$69 | 78% | 1.94 |
| PECO | Room AC (with louvered sides) | Mining | HVAC | ROB | unit (ton) | 16,124 | 2.6% | 0.09 | 9 | \$69 | 78% | 1.94 |
| PECO | Variable Refrigerant Flow Heat Pump | Mining | HVAC | New | measure | 16,124 | 0.1% | 0.00 | 13 | \$119 | 43% | 0.10 |
| PECO | Variable Refrigerant Flow Heat Pump | Mining | HVAC | ROB | measure | 16,124 | 0.1% | 0.00 | 13 | \$119 | 43% | 0.10 |
| PECO | VFD on Cooling Tower Fan | Mining | HVAC | Early | motor | 16,124 | 21% | 1.02 | 15 | \$745 | 15% | 2.53 |
| PECO | VFD on Cooling Tower Fan | Mining | HVAC | New | motor | 16,124 | 22% | 1.02 | 15 | \$759 | 15% | 2.52 |
| PECO | VFD on Cooling Tower Fan | Mining | HVAC | ROB | motor | 16,124 | 22% | 1.02 | 15 | \$759 | 15% | 2.52 |
| PECO | Wall Insualtions (Going upto R 21) | Mining | HVAC | Existing | building | 16,124 | 19% | 0.77 | 15 | \$11,470 | 26% | 0.18 |
| PECO | Wall Insualtions (Going upto R 21) | Mining | HVAC | New | building | 16,124 | 0.6% | 0.02 | 15 | \$8,798 | 94% | 0.01 |
| PECO | Water Source Heat Pump (4 ton) | Mining | HVAC | Early | heat pump | 16,124 | 1.5% | 0.06 | 15 | \$2,741 | 28% | 0.06 |
| PECO | Water Source Heat Pump (4 ton) | Mining | HVAC | New | heat pump | 16,124 | 1.1% | 0.04 | 15 | \$1,336 | 28% | 0.09 |
| PECO | Water Source Heat Pump (4 ton) | Mining | HVAC | ROB | heat pump | 16,124 | 1.1% | 0.04 | 15 | \$1,336 | 28% | 0.09 |
| PECO | Efficient Metal Halide (High Bay) | Mining | Lighting | Early | end use | 13,100 | 42% | 0.00 | 9 | \$2,047 | 53% | 0.83 |
| PECO | Efficient Metal Halide (High Bay) | Mining | Lighting | New | end use | 13,100 | 41% | 0.00 | 13 | \$54,676 | 61% | 0.05 |
| PECO | Efficient Metal Halide (High Bay) | Mining | Lighting | ROB | end use | 13,100 | 41% | 0.00 | 13 | \$41,787 | 61% | 0.06 |
| PECO | Induction (High Bay) | Mining | Lighting | Early | end use | 13,100 | 94% | 0.00 | 13 | \$6,091 | 95% | 0.88 |
| PECO | Induction (High Bay) | Mining | Lighting | New | end use | 13,100 | 94% | 0.00 | 13 | \$5,702 | 95% | 0.94 |
| PECO | Induction (High Bay) | Mining | Lighting | ROB | end use | 13,100 | 94% | 0.00 | 13 | \$4,334 | 95% | 1.18 |
| PECO | LED (High Bay) | Mining | Lighting | Early | end use | 13,100 | 69% | 0.00 | 14 | \$7,170 | 95% | 0.61 |
| PECO | LED (High Bay) | Mining | Lighting | New | end use | 13,100 | 55% | 0.00 | 14 | \$7,958 | 95% | 0.45 |
| PECO | LED (High Bay) | Mining | Lighting | ROB | end use | 13,100 | 59% | 0.00 | 14 | \$5,244 | 95% | 0.70 |
| PECO | Lighting Controls | Mining | Lighting | Existing | end use | 13,100 | 20% | 0.00 | 6 | \$49,110 | 16% | 0.01 |
| PECO | Lighting Controls | Mining | Lighting | New | end use | 13,100 | 12% | 0.00 | 10 | \$65,332 | 11% | 0.01 |
| PECO | Linear Fluorescent (High Bay) | Mining | Lighting | Early | end use | 13,100 | 17% | 0.00 | 14 | \$1,499 | 98% | 0.70 |
| PECO | Linear Fluorescent (High Bay) | Mining | Lighting | New | end use | 13,100 | 13% | 0.00 | 14 | \$475 | 91% | 1.48 |
| PECO | Linear Fluorescent (High Bay) | Mining | Lighting | ROB | end use | 13,100 | 13% | 0.00 | 14 | \$304 | 91% | 2.13 |
| PECO | Metal Halide (High Bay) | Mining | Lighting | Early | end use | 13,100 | 62% | 0.00 | 13 | \$9,005 | 38% | 0.42 |
| PECO | Metal Halide (High Bay) | Mining | Lighting | New | end use | 13,100 | 73% | 0.00 | 13 | \$2,153 | 38% | 1.68 |
| PECO | Metal Halide (High Bay) | Mining | Lighting | ROB | end use | 13,100 | 73% | 0.00 | 13 | \$1,636 | 38% | 2.06 |
| PECO | Screw Base CFL | Mining | Lighting | Early | end use | 13,100 | 80% | 0.00 | 7 | \$3,559 | 17% | 0.69 |
| PECO | Screw Base CFL | Mining | Lighting | New | end use | 13,100 | 73% | 0.00 | 9 | \$2,909 | 18% | 0.97 |
| PECO | Screw Base CFL | Mining | Lighting | ROB | end use | 13,100 | 73% | 0.00 | 9 | \$2,434 | 17% | 1.12 |
| PECO | Screw Base LED | Mining | Lighting | Early | end use | 13,100 | 76% | 0.00 | 9 | \$2,184 | 21% | 1.31 |
| PECO | Screw Base LED | Mining | Lighting | New | end use | 13,100 | 77% | 0.00 | 9 | \$1,217 | 20% | 1.99 |
| PECO | Screw Base LED | Mining | Lighting | ROB | end use | 13,100 | 77% | 0.00 | 9 | \$966 | 21% | 2.29 |
| PECO | T8 High Performance Linear Florescent | Mining | Lighting | Early | end use | 13,100 | 36% | 0.00 | 14 | \$1,254 | 71% | 1.57 |
| PECO | T8 High Performance Linear Florescent | Mining | Lighting | New | end use | 13,100 | 26% | 0.00 | 14 | \$448 | 76% | 2.64 |
| PECO | T8 High Performance Linear Florescent | Mining | Lighting | ROB | end use | 13,100 | 26% | 0.00 | 14 | \$341 | 76% | 3.12 |
| PECO | Enhanced (Ultra-PE) Motor 1-15 HP | Mining | Motors | Early | end use | 21,769 | 0.9% | 0.03 | 15 | \$333 | 81% | 0.38 |
| PECO | Enhanced (Ultra-PE) Motor 1-15 HP | Mining | Motors | New | end use | 21,769 | 0.9% | 0.03 | 15 | \$333 | 81% | 0.38 |
| PECO | Enhanced (Ultra-PE) Motor 1-15 HP | Mining | Motors | ROB | end use | 21,769 | 0.9% | 0.03 | 15 | \$333 | 81% | 0.38 |
| PECO | Enhanced (Ultra-PE) Motor 125-200 HP | Mining | Motors | Early | end use | 21,769 | 0.8% | 0.02 | 15 | \$202 | 73% | 0.51 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|--|---------|------------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Enhanced (Ultra-PE) Motor 125-200 HP | Mining | Motors | New | end use | 21,769 | 0.7% | 0.02 | 15 | \$202 | 73% | 0.50 |
| PECO | Enhanced (Ultra-PE) Motor 125-200 HP | Mining | Motors | ROB | end use | 21,769 | 0.8% | 0.02 | 15 | \$202 | 73% | 0.51 |
| PECO | Enhanced (Ultra-PE) Motor 20-40 HP | Mining | Motors | Early | end use | 21,769 | 0.4% | 0.01 | 15 | \$77 | 81% | 0.75 |
| PECO | Enhanced (Ultra-PE) Motor 20-40 HP | Mining | Motors | New | end use | 21,769 | 0.5% | 0.01 | 15 | \$77 | 81% | 0.76 |
| PECO | Enhanced (Ultra-PE) Motor 20-40 HP | Mining | Motors | ROB | end use | 21,769 | 0.4% | 0.01 | 15 | \$77 | 81% | 0.76 |
| PECO | Enhanced (Ultra-PE) Motor 250-500 HP | Mining | Motors | Early | end use | 21,769 | 0.4% | 0.01 | 15 | \$26 | 73% | 1.78 |
| PECO | Enhanced (Ultra-PE) Motor 250-500 HP | Mining | Motors | New | end use | 21,769 | 0.4% | 0.01 | 15 | \$26 | 73% | 1.79 |
| PECO | Enhanced (Ultra-PE) Motor 250-500 HP | Mining | Motors | ROB | end use | 21,769 | 0.4% | 0.01 | 15 | \$26 | 73% | 1.83 |
| PECO | Enhanced (Ultra-PE) Motor 50-100 HP | Mining | Motors | Early | end use | 21,769 | 0.9% | 0.03 | 15 | \$38 | 47% | 2.53 |
| PECO | Enhanced (Ultra-PE) Motor 50-100 HP | Mining | Motors | New | end use | 21,769 | 0.9% | 0.03 | 15 | \$38 | 47% | 2.53 |
| PECO | Enhanced (Ultra-PE) Motor 50-100 HP | Mining | Motors | ROB | end use | 21,769 | 0.9% | 0.03 | 15 | \$38 | 47% | 2.49 |
| PECO | HE Motors | Mining | Motors | Early | end use | 21,769 | 2.0% | 0.06 | 15 | \$130 | 38% | 1.81 |
| PECO | HE Motors | Mining | Motors | New | end use | 21,769 | 2.0% | 0.06 | 15 | \$130 | 38% | 1.81 |
| PECO | HE Motors | Mining | Motors | ROB | end use | 21,769 | 2.0% | 0.06 | 15 | \$130 | 38% | 1.81 |
| PECO | Improved Controls - Motors | Mining | Motors | Existing | end use | 21,769 | 4.0% | 0.12 | 10 | \$95 | 13% | 2.65 |
| PECO | Improved Controls - Motors | Mining | Motors | New | end use | 21,769 | 4.0% | 0.12 | 10 | \$95 | 13% | 2.65 |
| PECO | Material Handling | Mining | Motors | Early | end use | 21,769 | 18% | 0.57 | 10 | \$1,052 | 77% | 1.43 |
| PECO | Material Handling | Mining | Motors | New | end use | 21,769 | 18% | 0.57 | 10 | \$1,052 | 77% | 1.43 |
| PECO | Material Handling | Mining | Motors | ROB | end use | 21,769 | 18% | 0.57 | 10 | \$1,052 | 77% | 1.43 |
| PECO | Material Handling VFD | Mining | Motors | Early | end use | 21,769 | 16% | 0.50 | 10 | \$728 | 77% | 1.72 |
| PECO | Material Handling VFD | Mining | Motors | New | end use | 21,769 | 16% | 0.50 | 10 | \$728 | 77% | 1.72 |
| PECO | Material Handling VFD | Mining | Motors | ROB | end use | 21,769 | 16% | 0.50 | 10 | \$728 | 77% | 1.72 |
| PECO | Motor Management Plan | Mining | Motors | Existing | end use | 21,769 | 4.3% | 0.09 | 10 | \$44 | 73% | 3.89 |
| PECO | Motor Management Plan | Mining | Motors | New | end use | 21,769 | 3.1% | 0.09 | 10 | \$44 | 73% | 3.47 |
| PECO | Motors Other | Mining | Motors | Existing | end use | 21,769 | 1.1% | 0.03 | 15 | \$4.3 | 83% | 7.39 |
| PECO | Motors Other | Mining | Motors | New | end use | 21,769 | 1.1% | 0.03 | 15 | \$4.3 | 83% | 7.39 |
| PECO | Motors: Rewind 101-200 HP | Mining | Motors | Existing | end use | 21,769 | 0.7% | 0.02 | 10 | \$27 | 27% | 1.78 |
| PECO | Motors: Rewind 101-200 HP | Mining | Motors | New | end use | 21,769 | 1.2% | 0.02 | 10 | \$27 | 27% | 2.49 |
| PECO | Motors: Rewind 201-500 HP | Mining | Motors | Existing | end use | 21,769 | 0.9% | 0.02 | 8 | \$17 | 27% | 2.42 |
| PECO | Motors: Rewind 201-500 HP | Mining | Motors | New | end use | 21,769 | 1.3% | 0.02 | 8 | \$17 | 27% | 2.82 |
| PECO | Motors: Rewind 20-50 HP | Mining | Motors | Existing | end use | 21,769 | 1.2% | 0.03 | 11 | \$81 | 42% | 1.38 |
| PECO | Motors: Rewind 20-50 HP | Mining | Motors | New | end use | 21,769 | 2.2% | 0.03 | 11 | \$81 | 42% | 2.07 |
| PECO | Motors: Rewind 500+ HP | Mining | Motors | Existing | end use | 21,769 | 2.2% | 0.02 | 8 | \$12 | 11% | 3.71 |
| PECO | Motors: Rewind 500+ HP | Mining | Motors | New | end use | 21,769 | 2.0% | 0.02 | 8 | \$12 | 11% | 3.62 |
| PECO | Motors: Rewind 51-100 HP | Mining | Motors | Existing | end use | 21,769 | 2.1% | 0.02 | 9 | \$40 | 42% | 2.53 |
| PECO | Motors: Rewind 51-100 HP | Mining | Motors | New | end use | 21,769 | 0.8% | 0.02 | 9 | \$40 | 42% | 1.42 |
| PECO | Switch from Belt drive to Direct Drive | Mining | Motors | Early | end use | 21,769 | 7.5% | 0.23 | 12 | \$349 | 30% | 1.95 |
| PECO | Switch from Belt drive to Direct Drive | Mining | Motors | New | end use | 21,769 | 7.5% | 0.23 | 12 | \$349 | 30% | 1.95 |
| PECO | Switch from Belt drive to Direct Drive | Mining | Motors | ROB | end use | 21,769 | 7.5% | 0.23 | 12 | \$349 | 30% | 1.95 |
| PECO | Synchronous Belts | Mining | Motors | Early | end use | 21,769 | 1.2% | 0.04 | 10 | \$32 | 30% | 2.42 |
| PECO | Synchronous Belts | Mining | Motors | New | end use | 21,769 | 1.2% | 0.04 | 10 | \$32 | 30% | 2.42 |
| PECO | Synchronous Belts | Mining | Motors | ROB | end use | 21,769 | 1.2% | 0.04 | 10 | \$32 | 30% | 2.42 |
| PECO | Air Compressor Demand Reduction | Mining | Process Air Compressor | Existing | end use | 484 | 26% | 0.02 | 10 | \$7.3 | 52% | 3.67 |
| PECO | Air Compressor Demand Reduction | Mining | Process Air Compressor | New | end use | 484 | 26% | 0.02 | 10 | \$7.3 | 52% | 3.67 |
| PECO | Cooling Tower Optimization | Mining | Process Cooling | Existing | building | 7,897 | 20% | 0.57 | 10 | \$48 | 15% | 5.57 |
| PECO | VFD on Cooling Tower Fan | Mining | Process Cooling | Early | motor | 7,897 | 21% | 0.50 | 15 | \$524 | 20% | 1.93 |
| PECO | VFD on Cooling Tower Fan | Mining | Process Cooling | New | motor | 7,897 | 22% | 0.50 | 15 | \$534 | 20% | 1.92 |
| PECO | VFD on Cooling Tower Fan | Mining | Process Cooling | ROB | motor | 7,897 | 22% | 0.50 | 15 | \$534 | 20% | 1.92 |
| PECO | Cooling Tower Optimization | Mining | Process Refrigeration | Existing | building | 4,057 | 20% | 0.29 | 10 | \$25 | 15% | 5.57 |
| PECO | VFD on Cooling Tower Fan | Mining | Process Refrigeration | Early | motor | 4,057 | 21% | 0.26 | 15 | \$269 | 20% | 1.93 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---|---------------|-----------------------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | VFD on Cooling Tower Fan | Mining | Process Refrigeration | New | motor | 4,057 | 22% | 0.26 | 15 | \$275 | 20% | 1.92 |
| PECO | VFD on Cooling Tower Fan | Mining | Process Refrigeration | ROB | motor | 4,057 | 22% | 0.26 | 15 | \$275 | 20% | 1.92 |
| PECO | Agricultural Exhaust Fans (Rate 21 CFM) | Other Non-Mfg | Fans | Early | end use | 48,939 | 5.0% | 0.29 | 20 | \$621 | 11% | 2.27 |
| PECO | Agricultural Exhaust Fans (Rate 21 CFM) | Other Non-Mfg | Fans | New | end use | 48,939 | 5.0% | 0.29 | 20 | \$621 | 11% | 2.27 |
| PECO | Agricultural Exhaust Fans (Rate 21 CFM) | Other Non-Mfg | Fans | ROB | end use | 48,939 | 5.0% | 0.29 | 20 | \$621 | 11% | 2.27 |
| PECO | Circulating Fans | Other Non-Mfg | Fans | Early | end use | 48,939 | 5.0% | 0.29 | 10 | \$298 | 53% | 2.32 |
| PECO | Circulating Fans | Other Non-Mfg | Fans | New | end use | 48,939 | 5.0% | 0.29 | 10 | \$298 | 53% | 2.31 |
| PECO | Circulating Fans | Other Non-Mfg | Fans | ROB | end use | 48,939 | 5.0% | 0.29 | 10 | \$298 | 53% | 2.32 |
| PECO | Facility Energy Management | Other Non-Mfg | Fans | Existing | end use | 48,939 | 3.0% | 0.11 | 2 | \$19 | 61% | 1.12 |
| PECO | Facility Energy Management | Other Non-Mfg | Fans | New | end use | 48,939 | 2.9% | 0.11 | 2 | \$19 | 61% | 1.12 |
| PECO | Fan Equipment Upgrade | Other Non-Mfg | Fans | Early | end use | 48,939 | 35% | 2.04 | 10 | \$1,468 | 53% | 2.84 |
| PECO | Fan Equipment Upgrade | Other Non-Mfg | Fans | New | end use | 48,939 | 35% | 2.04 | 10 | \$1,468 | 53% | 2.84 |
| PECO | Fan Equipment Upgrade | Other Non-Mfg | Fans | ROB | end use | 48,939 | 35% | 2.04 | 10 | \$1,468 | 53% | 2.84 |
| PECO | Fan System Optimization | Other Non-Mfg | Fans | Existing | end use | 48,939 | 7.2% | 0.41 | 10 | \$573 | 66% | 1.90 |
| PECO | Fan System Optimization | Other Non-Mfg | Fans | New | end use | 48,939 | 7.6% | 0.41 | 10 | \$573 | 66% | 1.96 |
| PECO | HE Motors | Other Non-Mfg | Fans | Early | end use | 48,939 | 2.0% | 0.12 | 15 | \$291 | 61% | 1.68 |
| PECO | HE Motors | Other Non-Mfg | Fans | New | end use | 48,939 | 2.0% | 0.12 | 15 | \$291 | 61% | 1.68 |
| PECO | HE Motors | Other Non-Mfg | Fans | ROB | end use | 48,939 | 2.0% | 0.12 | 15 | \$291 | 61% | 1.68 |
| PECO | High Volume Low Speed Fans | Other Non-Mfg | Fans | Early | end use | 48,939 | 47% | 2.72 | 25 | \$36,790 | 53% | 0.49 |
| PECO | High Volume Low Speed Fans | Other Non-Mfg | Fans | New | end use | 48,939 | 47% | 2.72 | 25 | \$36,790 | 53% | 0.49 |
| PECO | High Volume Low Speed Fans | Other Non-Mfg | Fans | ROB | end use | 48,939 | 47% | 2.72 | 25 | \$36,790 | 53% | 0.49 |
| PECO | Improved Controls - Fans | Other Non-Mfg | Fans | Existing | end use | 48,939 | 7.1% | 0.41 | 10 | \$190 | 69% | 3.55 |
| PECO | Improved Controls - Fans | Other Non-Mfg | Fans | New | end use | 48,939 | 7.1% | 0.41 | 10 | \$190 | 69% | 3.55 |
| PECO | Properly Sized Fans | Other Non-Mfg | Fans | Early | end use | 48,939 | 13% | 0.77 | 10 | \$1,002 | 32% | 1.96 |
| PECO | Properly Sized Fans | Other Non-Mfg | Fans | New | end use | 48,939 | 13% | 0.77 | 10 | \$1,002 | 32% | 1.96 |
| PECO | Properly Sized Fans | Other Non-Mfg | Fans | ROB | end use | 48,939 | 13% | 0.77 | 10 | \$1,002 | 32% | 1.96 |
| PECO | Synchronous Belts | Other Non-Mfg | Fans | Early | end use | 48,939 | 1.2% | 0.07 | 10 | \$72 | 32% | 2.25 |
| PECO | Synchronous Belts | Other Non-Mfg | Fans | New | end use | 48,939 | 1.2% | 0.07 | 10 | \$72 | 32% | 2.25 |
| PECO | Synchronous Belts | Other Non-Mfg | Fans | ROB | end use | 48,939 | 1.2% | 0.07 | 10 | \$72 | 32% | 2.25 |
| PECO | <65k BTU/hr 14 SEER Air Conditioner | Other Non-Mfg | HVAC | Early | unit (ton) | 167,110 | 9.2% | 3.98 | 15 | \$30,455 | 28% | 0.34 |
| PECO | <65k BTU/hr 14 SEER Air Conditioner | Other Non-Mfg | HVAC | New | unit (ton) | 167,110 | 4.1% | 1.79 | 15 | \$7,379 | 28% | 0.62 |
| PECO | <65k BTU/hr 14 SEER Air Conditioner | Other Non-Mfg | HVAC | ROB | unit (ton) | 167,110 | 4.1% | 1.79 | 15 | \$7,379 | 28% | 0.62 |
| PECO | <65k BTU/hr 15 SEER Air Conditioner | Other Non-Mfg | HVAC | Early | unit (ton) | 167,110 | 12% | 5.38 | 15 | \$35,903 | 28% | 0.39 |
| PECO | <65k BTU/hr 15 SEER Air Conditioner | Other Non-Mfg | HVAC | New | unit (ton) | 167,110 | 7.7% | 3.34 | 15 | \$15,541 | 28% | 0.55 |
| PECO | <65k BTU/hr 15 SEER Air Conditioner | Other Non-Mfg | HVAC | ROB | unit (ton) | 167,110 | 7.7% | 3.34 | 15 | \$15,541 | 28% | 0.55 |
| PECO | <65k BTU/hr 16 SEER Air Conditioner | Other Non-Mfg | HVAC | Early | unit (ton) | 167,110 | 15% | 6.61 | 15 | \$41,351 | 29% | 0.42 |
| PECO | <65k BTU/hr 16 SEER Air Conditioner | Other Non-Mfg | HVAC | New | unit (ton) | 167,110 | 11% | 4.69 | 15 | \$23,703 | 29% | 0.51 |
| PECO | <65k BTU/hr 16 SEER Air Conditioner | Other Non-Mfg | HVAC | ROB | unit (ton) | 167,110 | 11% | 4.69 | 15 | \$23,703 | 29% | 0.51 |
| PECO | >760k min 10.2 EER Air Conditioner | Other Non-Mfg | HVAC | Early | unit (ton) | 167,110 | 2.1% | 0.92 | 15 | \$53,035 | 35% | 0.05 |
| PECO | >760k min 10.2 EER Air Conditioner | Other Non-Mfg | HVAC | New | unit (ton) | 167,110 | 2.8% | 1.23 | 15 | \$4,793 | 35% | 0.65 |
| PECO | >760k min 10.2 EER Air Conditioner | Other Non-Mfg | HVAC | ROB | unit (ton) | 167,110 | 2.8% | 1.23 | 15 | \$4,793 | 35% | 0.65 |
| PECO | 135-240k min 12 EER Air Conditioner | Other Non-Mfg | HVAC | Early | unit (ton) | 167,110 | 10% | 4.54 | 15 | \$57,429 | 35% | 0.21 |
| PECO | 135-240k min 12 EER Air Conditioner | Other Non-Mfg | HVAC | New | unit (ton) | 167,110 | 5.8% | 2.50 | 15 | \$6,781 | 35% | 0.91 |
| PECO | 135-240k min 12 EER Air Conditioner | Other Non-Mfg | HVAC | ROB | unit (ton) | 167,110 | 5.8% | 2.50 | 15 | \$6,781 | 35% | 0.91 |
| PECO | 240k-760k min 11 EER Air Conditioner | Other Non-Mfg | HVAC | Early | unit (ton) | 167,110 | 5.2% | 2.26 | 15 | \$53,068 | 35% | 0.11 |
| PECO | 240k-760k min 11 EER Air Conditioner | Other Non-Mfg | HVAC | New | unit (ton) | 167,110 | 5.3% | 2.32 | 15 | \$5,685 | 35% | 1.00 |
| PECO | 240k-760k min 11 EER Air Conditioner | Other Non-Mfg | HVAC | ROB | unit (ton) | 167,110 | 5.3% | 2.32 | 15 | \$5,685 | 35% | 1.00 |
| PECO | 65k-135k BTU/hr 12 EER Air Conditioner | Other Non-Mfg | HVAC | Early | unit (ton) | 167,110 | 9.7% | 4.21 | 15 | \$58,802 | 35% | 0.19 |
| PECO | 65k-135k BTU/hr 12 EER Air Conditioner | Other Non-Mfg | HVAC | New | unit (ton) | 167,110 | 3.8% | 1.67 | 15 | \$8,390 | 35% | 0.51 |
| PECO | 65k-135k BTU/hr 12 EER Air Conditioner | Other Non-Mfg | HVAC | ROB | unit (ton) | 167,110 | 3.8% | 1.67 | 15 | \$8,390 | 35% | 0.51 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---|---------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Ceiling Insualtions (Going upto R 20) | Other Non-Mfg | HVAC | Existing | building | 167,110 | 5.9% | 2.48 | 15 | \$506,316 | 71% | 0.01 |
| PECO | Ceiling Insualtions (Going upto R 20) | Other Non-Mfg | HVAC | New | building | 167,110 | 3.7% | 1.56 | 15 | \$481,268 | 94% | 0.01 |
| PECO | Chiller Tuneup/Diagnostics | Other Non-Mfg | HVAC | Existing | building | 167,110 | 8.0% | 4.90 | 10 | \$426,706 | 59% | 0.02 |
| PECO | Chiller Tuneup/Diagnostics | Other Non-Mfg | HVAC | New | building | 167,110 | 8.0% | 4.91 | 10 | \$426,706 | 59% | 0.02 |
| PECO | Cooling Tower Optimization | Other Non-Mfg | HVAC | Existing | building | 167,110 | 20% | 11.96 | 10 | \$1,025 | 12% | 5.50 |
| PECO | Duct Insulation, Add R8 | Other Non-Mfg | HVAC | Existing | building | 167,110 | 1.5% | 0.53 | 15 | \$1,327 | 18% | 1.16 |
| PECO | Duct Insulation, Add R8 | Other Non-Mfg | HVAC | New | building | 167,110 | 1.5% | 0.53 | 15 | \$1,327 | 9% | 1.16 |
| PECO | Ductless Heat Pump | Other Non-Mfg | HVAC | Early | heat pump | 167,110 | 0.8% | 0.31 | 15 | \$13,212 | 83% | 0.07 |
| PECO | Ductless Heat Pump | Other Non-Mfg | HVAC | New | heat pump | 167,110 | 0.4% | 0.16 | 15 | \$3,837 | 83% | 0.13 |
| PECO | Ductless Heat Pump | Other Non-Mfg | HVAC | ROB | heat pump | 167,110 | 0.4% | 0.16 | 15 | \$3,837 | 83% | 0.13 |
| PECO | DX Coil Cleaning | Other Non-Mfg | HVAC | Existing | building | 167,110 | 13% | 7.67 | 1 | \$1,602 | 73% | 0.46 |
| PECO | DX Coil Cleaning | Other Non-Mfg | HVAC | New | building | 167,110 | 13% | 7.66 | 1 | \$1,602 | 73% | 0.46 |
| PECO | Efficient Unit Heating System | Other Non-Mfg | HVAC | Early | heater | 167,110 | 6.9% | 0.10 | 15 | \$9,021 | 83% | 0.67 |
| PECO | Efficient Unit Heating System | Other Non-Mfg | HVAC | New | heater | 167,110 | 4.0% | 0.06 | 15 | \$6,154 | 83% | 0.57 |
| PECO | Efficient Unit Heating System | Other Non-Mfg | HVAC | ROB | heater | 167,110 | 4.0% | 0.06 | 15 | \$6,154 | 83% | 0.57 |
| PECO | Ground Source Heat Pump (Closed Loop) | Other Non-Mfg | HVAC | Early | heat pump | 167,110 | 1.3% | 0.49 | 15 | \$27,433 | 19% | 0.05 |
| PECO | Ground Source Heat Pump (Closed Loop) | Other Non-Mfg | HVAC | New | heat pump | 167,110 | 1.0% | 0.38 | 15 | \$10,832 | 19% | 0.11 |
| PECO | Ground Source Heat Pump (Closed Loop) | Other Non-Mfg | HVAC | ROB | heat pump | 167,110 | 1.0% | 0.38 | 15 | \$10,832 | 19% | 0.11 |
| PECO | Ground Source Heat Pump (Open Loop) | Other Non-Mfg | HVAC | Early | heat pump | 167,110 | 1.3% | 0.49 | 15 | \$17,569 | 19% | 0.08 |
| PECO | Ground Source Heat Pump (Open Loop) | Other Non-Mfg | HVAC | New | heat pump | 167,110 | 1.0% | 0.38 | 15 | \$372 | 19% | 2.37 |
| PECO | Ground Source Heat Pump (Open Loop) | Other Non-Mfg | HVAC | ROB | heat pump | 167,110 | 1.0% | 0.38 | 15 | \$372 | 19% | 2.37 |
| PECO | HE Air Cooled Chiller, 100 Tons | Other Non-Mfg | HVAC | Early | unit (ton) | 167,110 | 1.5% | 0.55 | 15 | \$194,393 | 89% | 0.01 |
| PECO | HE Air Cooled Chiller, 100 Tons | Other Non-Mfg | HVAC | New | unit (ton) | 167,110 | 0.4% | 0.16 | 15 | \$28,319 | 89% | 0.02 |
| PECO | HE Air Cooled Chiller, 100 Tons | Other Non-Mfg | HVAC | ROB | unit (ton) | 167,110 | 0.4% | 0.16 | 15 | \$28,319 | 89% | 0.02 |
| PECO | HE Air Cooled Chiller, 150 Tons | Other Non-Mfg | HVAC | Early | unit (ton) | 167,110 | 1.4% | 0.54 | 15 | \$167,912 | 89% | 0.01 |
| PECO | HE Air Cooled Chiller, 150 Tons | Other Non-Mfg | HVAC | New | unit (ton) | 167,110 | 0.3% | 0.11 | 15 | \$13,908 | 89% | 0.02 |
| PECO | HE Air Cooled Chiller, 150 Tons | Other Non-Mfg | HVAC | ROB | unit (ton) | 167,110 | 0.3% | 0.11 | 15 | \$13,908 | 89% | 0.02 |
| PECO | HE Air Source Heat Pump (12 EER, 3.6 COP) | Other Non-Mfg | HVAC | Early | heat pump | 167,110 | 1.4% | 0.51 | 12 | \$7,161 | 81% | 0.18 |
| PECO | HE Air Source Heat Pump (12 EER, 3.6 COP) | Other Non-Mfg | HVAC | Early | heat pump | 167,110 | 1.1% | 0.42 | 12 | \$5,232 | 81% | 0.20 |
| PECO | HE Air Source Heat Pump (12 EER, 3.6 COP) | Other Non-Mfg | HVAC | New | heat pump | 167,110 | 1.0% | 0.38 | 12 | \$3,197 | 81% | 0.30 |
| PECO | HE Air Source Heat Pump (12 EER, 3.6 COP) | Other Non-Mfg | HVAC | New | heat pump | 167,110 | 0.8% | 0.28 | 12 | \$1,118 | 81% | 0.61 |
| PECO | HE Air Source Heat Pump (12 EER, 3.6 COP) | Other Non-Mfg | HVAC | ROB | heat pump | 167,110 | 1.0% | 0.38 | 12 | \$3,197 | 81% | 0.30 |
| PECO | HE Air Source Heat Pump (12 EER, 3.6 COP) | Other Non-Mfg | HVAC | ROB | heat pump | 167,110 | 0.8% | 0.28 | 12 | \$1,118 | 81% | 0.61 |
| PECO | HE Water Cooled Centrifugal Chiller, 175 Tons | Other Non-Mfg | HVAC | Early | unit (ton) | 167,110 | 1.6% | 0.60 | 15 | \$15,424 | 89% | 0.12 |
| PECO | HE Water Cooled Centrifugal Chiller, 175 Tons | Other Non-Mfg | HVAC | New | unit (ton) | 167,110 | 0.9% | 0.34 | 15 | \$5,130 | 89% | 0.20 |
| PECO | HE Water Cooled Centrifugal Chiller, 175 Tons | Other Non-Mfg | HVAC | ROB | unit (ton) | 167,110 | 0.9% | 0.34 | 15 | \$5,130 | 89% | 0.20 |
| PECO | HE Water Cooled Centrifugal Chiller, 300 Tons | Other Non-Mfg | HVAC | Early | unit (ton) | 167,110 | 1.4% | 0.53 | 15 | \$15,064 | 89% | 0.11 |
| PECO | HE Water Cooled Centrifugal Chiller, 300 Tons | Other Non-Mfg | HVAC | New | unit (ton) | 167,110 | 1.0% | 0.37 | 15 | \$2,942 | 89% | 0.37 |
| PECO | HE Water Cooled Centrifugal Chiller, 300 Tons | Other Non-Mfg | HVAC | ROB | unit (ton) | 167,110 | 1.4% | 0.53 | 15 | \$2,702 | 89% | 0.56 |
| PECO | HE Water Cooled Centrifugal Chiller, 500 Tons | Other Non-Mfg | HVAC | Early | unit (ton) | 167,110 | 1.4% | 0.52 | 15 | \$17,829 | 89% | 0.09 |
| PECO | HE Water Cooled Centrifugal Chiller, 500 Tons | Other Non-Mfg | HVAC | New | unit (ton) | 167,110 | 0.9% | 0.33 | 15 | \$7,506 | 89% | 0.13 |
| PECO | HE Water Cooled Centrifugal Chiller, 500 Tons | Other Non-Mfg | HVAC | ROB | unit (ton) | 167,110 | 1.4% | 0.52 | 15 | \$6,794 | 89% | 0.23 |
| PECO | HE Water Cooled Centrifugal Chiller, 600 Tons | Other Non-Mfg | HVAC | Early | unit (ton) | 167,110 | 1.4% | 0.52 | 15 | \$17,174 | 89% | 0.09 |
| PECO | HE Water Cooled Centrifugal Chiller, 600 Tons | Other Non-Mfg | HVAC | New | unit (ton) | 167,110 | 0.9% | 0.33 | 15 | \$6,525 | 89% | 0.15 |
| PECO | HE Water Cooled Centrifugal Chiller, 600 Tons | Other Non-Mfg | HVAC | ROB | unit (ton) | 167,110 | 1.4% | 0.52 | 15 | \$5,906 | 89% | 0.26 |
| PECO | HE Water Cooled Reciprocating Chiller, 100 Tons | Other Non-Mfg | HVAC | Early | unit (ton) | 167,110 | 1.8% | 0.68 | 15 | \$18,505 | 89% | 0.11 |
| PECO | HE Water Cooled Reciprocating Chiller, 100 Tons | Other Non-Mfg | HVAC | New | unit (ton) | 167,110 | 0.5% | 0.21 | 15 | \$11,459 | 89% | 0.05 |
| PECO | HE Water Cooled Reciprocating Chiller, 100 Tons | Other Non-Mfg | HVAC | ROB | unit (ton) | 167,110 | 1.8% | 0.68 | 15 | \$8,898 | 89% | 0.23 |
| PECO | HE Water Cooled Reciprocating Chiller, 175 Tons | Other Non-Mfg | HVAC | Early | unit (ton) | 167,110 | 2.1% | 0.80 | 15 | \$17,021 | 89% | 0.14 |
| PECO | HE Water Cooled Reciprocating Chiller, 175 Tons | Other Non-Mfg | HVAC | New | unit (ton) | 167,110 | 0.8% | 0.29 | 15 | \$6,830 | 89% | 0.13 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---|---------------|----------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | HE Water Cooled Reciprocating Chiller, 175 Tons | Other Non-Mfg | HVAC | ROB | unit (ton) | 167,110 | 0.8% | 0.29 | 15 | \$6,830 | 89% | 0.13 |
| PECO | HE Water Cooled Reciprocating Chiller, 300 Tons | Other Non-Mfg | HVAC | Early | unit (ton) | 167,110 | 2.4% | 0.90 | 15 | \$14,426 | 89% | 0.19 |
| PECO | HE Water Cooled Reciprocating Chiller, 300 Tons | Other Non-Mfg | HVAC | New | unit (ton) | 167,110 | 0.9% | 0.34 | 15 | \$3,630 | 89% | 0.28 |
| PECO | HE Water Cooled Reciprocating Chiller, 300 Tons | Other Non-Mfg | HVAC | ROB | unit (ton) | 167,110 | 2.4% | 0.90 | 15 | \$2,588 | 89% | 0.96 |
| PECO | HE Water Cooled Reciprocating Chiller, 50 Tons | Other Non-Mfg | HVAC | Early | unit (ton) | 167,110 | 1.8% | 0.68 | 15 | \$14,281 | 89% | 0.14 |
| PECO | HE Water Cooled Reciprocating Chiller, 50 Tons | Other Non-Mfg | HVAC | New | unit (ton) | 167,110 | 0.7% | 0.26 | 15 | \$3,999 | 89% | 0.19 |
| PECO | HE Water Cooled Reciprocating Chiller, 50 Tons | Other Non-Mfg | HVAC | ROB | unit (ton) | 167,110 | 1.8% | 0.68 | 15 | \$3,168 | 89% | 0.62 |
| PECO | Heat Reclaimer | Other Non-Mfg | HVAC | Existing | end use | 167,110 | 42% | 10.08 | 15 | \$9,559 | 15% | 2.90 |
| PECO | Heat Reclaimer | Other Non-Mfg | HVAC | New | end use | 167,110 | 42% | 10.08 | 15 | \$9,559 | 15% | 2.90 |
| PECO | Heat Recovery Ventilators | Other Non-Mfg | HVAC | Existing | end use | 167,110 | 4.2% | 0.99 | 10 | \$2,451 | 93% | 1.05 |
| PECO | Heat Recovery Ventilators | Other Non-Mfg | HVAC | New | end use | 167,110 | 4.1% | 0.99 | 10 | \$2,451 | 93% | 1.03 |
| PECO | HVAC Diagnostic/Air Conditioner Tune Up | Other Non-Mfg | HVAC | Existing | building | 167,110 | 2.9% | 0.98 | 5 | \$1,773 | 55% | 0.60 |
| PECO | HVAC Diagnostic/Air Conditioner Tune Up | Other Non-Mfg | HVAC | New | building | 167,110 | 0.6% | 0.39 | 5 | \$1,064 | 51% | 0.28 |
| PECO | Improved Controls - HVAC | Other Non-Mfg | HVAC | Existing | end use | 167,110 | 22% | 5.01 | 10 | \$1,757 | 76% | 3.67 |
| PECO | Improved Controls - HVAC | Other Non-Mfg | HVAC | New | end use | 167,110 | 22% | 5.01 | 10 | \$1,757 | 76% | 3.68 |
| PECO | Infrared Film for Greenhouses | Other Non-Mfg | HVAC | Existing | end use | 167,110 | 11% | 2.65 | 4 | \$3,878 | 5% | 0.68 |
| PECO | Infrared Film for Greenhouses | Other Non-Mfg | HVAC | New | end use | 167,110 | 11% | 2.65 | 4 | \$3,878 | 5% | 0.68 |
| PECO | Outside Air Economizer | Other Non-Mfg | HVAC | Existing | building | 167,110 | 1.1% | 0.47 | 10 | \$613,993 | 82% | 0.00 |
| PECO | Outside Air Economizer | Other Non-Mfg | HVAC | New | building | 167,110 | 1.1% | 0.47 | 10 | \$613,993 | 82% | 0.00 |
| PECO | Programmable Ventilation Controller | Other Non-Mfg | HVAC | Existing | end use | 167,110 | 0.1% | 0.02 | 10 | \$19 | 80% | 2.39 |
| PECO | Programmable Ventilation Controller | Other Non-Mfg | HVAC | New | end use | 167,110 | 0.2% | 0.02 | 10 | \$19 | 80% | 3.23 |
| PECO | Recommissioning | Other Non-Mfg | HVAC | Existing | end use | 167,110 | 6.1% | 1.20 | 10 | \$229 | 88% | 4.60 |
| PECO | Recommissioning | Other Non-Mfg | HVAC | New | end use | 167,110 | 5.8% | 1.20 | 10 | \$229 | 88% | 4.57 |
| PECO | Room AC (with louvered sides) | Other Non-Mfg | HVAC | Early | unit (ton) | 167,110 | 7.7% | 2.90 | 9 | \$13,104 | 78% | 0.42 |
| PECO | Room AC (with louvered sides) | Other Non-Mfg | HVAC | New | unit (ton) | 167,110 | 2.6% | 0.97 | 9 | \$717 | 78% | 1.94 |
| PECO | Room AC (with louvered sides) | Other Non-Mfg | HVAC | ROB | unit (ton) | 167,110 | 2.6% | 0.97 | 9 | \$717 | 78% | 1.94 |
| PECO | Variable Refrigerant Flow Heat Pump | Other Non-Mfg | HVAC | New | measure | 167,110 | 0.1% | 0.04 | 13 | \$1,230 | 43% | 0.10 |
| PECO | Variable Refrigerant Flow Heat Pump | Other Non-Mfg | HVAC | ROB | measure | 167,110 | 0.1% | 0.04 | 13 | \$1,230 | 43% | 0.10 |
| PECO | VFD on Cooling Tower Fan | Other Non-Mfg | HVAC | Early | motor | 167,110 | 21% | 10.54 | 15 | \$7,716 | 15% | 2.53 |
| PECO | VFD on Cooling Tower Fan | Other Non-Mfg | HVAC | New | motor | 167,110 | 22% | 10.54 | 15 | \$7,864 | 15% | 2.52 |
| PECO | VFD on Cooling Tower Fan | Other Non-Mfg | HVAC | ROB | motor | 167,110 | 22% | 10.54 | 15 | \$7,864 | 15% | 2.52 |
| PECO | Wall Insualtions (Going upto R 21) | Other Non-Mfg | HVAC | Existing | building | 167,110 | 19% | 7.99 | 15 | \$118,876 | 26% | 0.18 |
| PECO | Wall Insualtions (Going upto R 21) | Other Non-Mfg | HVAC | New | building | 167,110 | 0.6% | 0.26 | 15 | \$91,184 | 94% | 0.01 |
| PECO | Water Source Heat Pump (4 ton) | Other Non-Mfg | HVAC | Early | heat pump | 167,110 | 1.5% | 0.58 | 15 | \$28,408 | 28% | 0.06 |
| PECO | Water Source Heat Pump (4 ton) | Other Non-Mfg | HVAC | New | heat pump | 167,110 | 1.1% | 0.42 | 15 | \$13,845 | 28% | 0.09 |
| PECO | Water Source Heat Pump (4 ton) | Other Non-Mfg | HVAC | ROB | heat pump | 167,110 | 1.1% | 0.42 | 15 | \$13,845 | 28% | 0.09 |
| PECO | Efficient Metal Halide (High Bay) | Other Non-Mfg | Lighting | Early | end use | 94,384 | 42% | 0.00 | 9 | \$14,749 | 53% | 0.83 |
| PECO | Efficient Metal Halide (High Bay) | Other Non-Mfg | Lighting | New | end use | 94,384 | 41% | 0.00 | 13 | \$393,940 | 61% | 0.05 |
| PECO | Efficient Metal Halide (High Bay) | Other Non-Mfg | Lighting | ROB | end use | 94,384 | 41% | 0.00 | 13 | \$301,071 | 61% | 0.06 |
| PECO | Induction (High Bay) | Other Non-Mfg | Lighting | Early | end use | 94,384 | 94% | 0.00 | 13 | \$43,884 | 95% | 0.88 |
| PECO | Induction (High Bay) | Other Non-Mfg | Lighting | New | end use | 94,384 | 94% | 0.00 | 13 | \$41,086 | 95% | 0.94 |
| PECO | Induction (High Bay) | Other Non-Mfg | Lighting | ROB | end use | 94,384 | 94% | 0.00 | 13 | \$31,227 | 95% | 1.18 |
| PECO | LED (High Bay) | Other Non-Mfg | Lighting | Early | end use | 94,384 | 69% | 0.00 | 14 | \$51,657 | 95% | 0.61 |
| PECO | LED (High Bay) | Other Non-Mfg | Lighting | New | end use | 94,384 | 55% | 0.00 | 14 | \$57,338 | 95% | 0.45 |
| PECO | LED (High Bay) | Other Non-Mfg | Lighting | ROB | end use | 94,384 | 59% | 0.00 | 14 | \$37,779 | 95% | 0.70 |
| PECO | Lighting Controls | Other Non-Mfg | Lighting | Existing | end use | 94,384 | 20% | 0.00 | 6 | \$353,834 | 16% | 0.01 |
| PECO | Lighting Controls | Other Non-Mfg | Lighting | New | end use | 94,384 | 12% | 0.00 | 10 | \$470,715 | 11% | 0.01 |
| PECO | Linear Fluorescent (High Bay) | Other Non-Mfg | Lighting | Early | end use | 94,384 | 17% | 0.00 | 14 | \$10,800 | 98% | 0.70 |
| PECO | Linear Fluorescent (High Bay) | Other Non-Mfg | Lighting | New | end use | 94,384 | 13% | 0.00 | 14 | \$3,425 | 91% | 1.48 |
| PECO | Linear Fluorescent (High Bay) | Other Non-Mfg | Lighting | ROB | end use | 94,384 | 13% | 0.00 | 14 | \$2,193 | 91% | 2.13 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---------------------------------------|---------------|----------|----------|---------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Metal Halide (High Bay) | Other Non-Mfg | Lighting | Early | end use | 94,384 | 62% | 0.00 | 13 | \$64,883 | 38% | 0.42 |
| PECO | Metal Halide (High Bay) | Other Non-Mfg | Lighting | New | end use | 94,384 | 73% | 0.00 | 13 | \$15,513 | 38% | 1.68 |
| PECO | Metal Halide (High Bay) | Other Non-Mfg | Lighting | ROB | end use | 94,384 | 73% | 0.00 | 13 | \$11,790 | 38% | 2.06 |
| PECO | Screw Base CFL | Other Non-Mfg | Lighting | Early | end use | 94,384 | 80% | 0.00 | 7 | \$25,642 | 17% | 0.69 |
| PECO | Screw Base CFL | Other Non-Mfg | Lighting | New | end use | 94,384 | 73% | 0.00 | 9 | \$20,956 | 18% | 0.97 |
| PECO | Screw Base CFL | Other Non-Mfg | Lighting | ROB | end use | 94,384 | 73% | 0.00 | 9 | \$17,540 | 17% | 1.12 |
| PECO | Screw Base LED | Other Non-Mfg | Lighting | Early | end use | 94,384 | 76% | 0.00 | 9 | \$15,737 | 21% | 1.31 |
| PECO | Screw Base LED | Other Non-Mfg | Lighting | New | end use | 94,384 | 77% | 0.00 | 9 | \$8,766 | 20% | 1.99 |
| PECO | Screw Base LED | Other Non-Mfg | Lighting | ROB | end use | 94,384 | 77% | 0.00 | 9 | \$6,959 | 21% | 2.29 |
| PECO | T8 High Performance Linear Florescent | Other Non-Mfg | Lighting | Early | end use | 94,384 | 36% | 0.00 | 14 | \$9,032 | 71% | 1.57 |
| PECO | T8 High Performance Linear Florescent | Other Non-Mfg | Lighting | New | end use | 94,384 | 26% | 0.00 | 14 | \$3,231 | 76% | 2.64 |
| PECO | T8 High Performance Linear Florescent | Other Non-Mfg | Lighting | ROB | end use | 94,384 | 26% | 0.00 | 14 | \$2,456 | 76% | 3.12 |
| PECO | Automatic Milker Takeoff | Other Non-Mfg | Motors | Early | end use | 15,451 | 3.0% | 0.07 | 15 | \$281 | 11% | 0.97 |
| PECO | Automatic Milker Takeoff | Other Non-Mfg | Motors | New | end use | 15,451 | 3.0% | 0.07 | 15 | \$281 | 11% | 0.97 |
| PECO | Automatic Milker Takeoff | Other Non-Mfg | Motors | ROB | end use | 15,451 | 3.0% | 0.07 | 15 | \$281 | 11% | 0.97 |
| PECO | Enhanced (Ultra-PE) Motor 1-15 HP | Other Non-Mfg | Motors | Early | end use | 15,451 | 0.9% | 0.02 | 15 | \$236 | 68% | 0.38 |
| PECO | Enhanced (Ultra-PE) Motor 1-15 HP | Other Non-Mfg | Motors | New | end use | 15,451 | 0.9% | 0.02 | 15 | \$236 | 68% | 0.37 |
| PECO | Enhanced (Ultra-PE) Motor 1-15 HP | Other Non-Mfg | Motors | ROB | end use | 15,451 | 0.9% | 0.02 | 15 | \$236 | 68% | 0.38 |
| PECO | Enhanced (Ultra-PE) Motor 125-200 HP | Other Non-Mfg | Motors | Early | end use | 15,451 | 0.7% | 0.02 | 15 | \$143 | 61% | 0.50 |
| PECO | Enhanced (Ultra-PE) Motor 125-200 HP | Other Non-Mfg | Motors | New | end use | 15,451 | 0.8% | 0.02 | 15 | \$143 | 61% | 0.51 |
| PECO | Enhanced (Ultra-PE) Motor 125-200 HP | Other Non-Mfg | Motors | ROB | end use | 15,451 | 0.7% | 0.02 | 15 | \$143 | 61% | 0.50 |
| PECO | Enhanced (Ultra-PE) Motor 20-40 HP | Other Non-Mfg | Motors | Early | end use | 15,451 | 0.5% | 0.01 | 15 | \$55 | 68% | 0.77 |
| PECO | Enhanced (Ultra-PE) Motor 20-40 HP | Other Non-Mfg | Motors | New | end use | 15,451 | 0.5% | 0.01 | 15 | \$55 | 68% | 0.77 |
| PECO | Enhanced (Ultra-PE) Motor 20-40 HP | Other Non-Mfg | Motors | ROB | end use | 15,451 | 0.5% | 0.01 | 15 | \$55 | 68% | 0.78 |
| PECO | Enhanced (Ultra-PE) Motor 250-500 HP | Other Non-Mfg | Motors | Early | end use | 15,451 | 0.4% | 0.01 | 15 | \$18 | 61% | 1.84 |
| PECO | Enhanced (Ultra-PE) Motor 250-500 HP | Other Non-Mfg | Motors | New | end use | 15,451 | 0.4% | 0.01 | 15 | \$18 | 61% | 1.82 |
| PECO | Enhanced (Ultra-PE) Motor 250-500 HP | Other Non-Mfg | Motors | ROB | end use | 15,451 | 0.4% | 0.01 | 15 | \$18 | 61% | 1.79 |
| PECO | Enhanced (Ultra-PE) Motor 50-100 HP | Other Non-Mfg | Motors | Early | end use | 15,451 | 0.9% | 0.02 | 15 | \$27 | 39% | 2.53 |
| PECO | Enhanced (Ultra-PE) Motor 50-100 HP | Other Non-Mfg | Motors | New | end use | 15,451 | 0.9% | 0.02 | 15 | \$27 | 39% | 2.51 |
| PECO | Enhanced (Ultra-PE) Motor 50-100 HP | Other Non-Mfg | Motors | ROB | end use | 15,451 | 0.9% | 0.02 | 15 | \$27 | 39% | 2.52 |
| PECO | Facility Energy Management | Other Non-Mfg | Motors | Existing | end use | 15,451 | 4.6% | 0.04 | 2 | \$6.0 | 64% | 1.23 |
| PECO | Facility Energy Management | Other Non-Mfg | Motors | New | end use | 15,451 | 3.9% | 0.04 | 2 | \$6.0 | 64% | 1.22 |
| PECO | HE Motors | Other Non-Mfg | Motors | Early | end use | 15,451 | 2.0% | 0.05 | 15 | \$92 | 32% | 1.81 |
| PECO | HE Motors | Other Non-Mfg | Motors | New | end use | 15,451 | 2.0% | 0.05 | 15 | \$92 | 32% | 1.81 |
| PECO | HE Motors | Other Non-Mfg | Motors | ROB | end use | 15,451 | 2.0% | 0.05 | 15 | \$92 | 32% | 1.81 |
| PECO | High-Efficiency Ventilation System | Other Non-Mfg | Motors | Early | end use | 15,451 | 5.7% | 0.13 | 10 | \$966 | 61% | 0.41 |
| PECO | High-Efficiency Ventilation System | Other Non-Mfg | Motors | New | end use | 15,451 | 5.7% | 0.13 | 10 | \$966 | 61% | 0.41 |
| PECO | High-Efficiency Ventilation System | Other Non-Mfg | Motors | ROB | end use | 15,451 | 5.7% | 0.13 | 10 | \$966 | 61% | 0.41 |
| PECO | Improved Controls - Motors | Other Non-Mfg | Motors | Existing | end use | 15,451 | 4.0% | 0.09 | 10 | \$67 | 61% | 2.65 |
| PECO | Improved Controls - Motors | Other Non-Mfg | Motors | New | end use | 15,451 | 4.0% | 0.09 | 10 | \$67 | 61% | 2.65 |
| PECO | Motor Management Plan | Other Non-Mfg | Motors | Existing | end use | 15,451 | 3.5% | 0.06 | 10 | \$32 | 61% | 3.63 |
| PECO | Motor Management Plan | Other Non-Mfg | Motors | New | end use | 15,451 | 3.9% | 0.06 | 10 | \$32 | 61% | 3.77 |
| PECO | Motors Other | Other Non-Mfg | Motors | Existing | end use | 15,451 | 1.1% | 0.02 | 15 | \$3.1 | 69% | 7.39 |
| PECO | Motors Other | Other Non-Mfg | Motors | New | end use | 15,451 | 1.1% | 0.02 | 15 | \$3.1 | 69% | 7.39 |
| PECO | Motors: Rewind 101-200 HP | Other Non-Mfg | Motors | Existing | end use | 15,451 | 2.3% | 0.01 | 10 | \$20 | 22% | 3.43 |
| PECO | Motors: Rewind 101-200 HP | Other Non-Mfg | Motors | New | end use | 15,451 | 0.6% | 0.01 | 10 | \$20 | 22% | 1.60 |
| PECO | Motors: Rewind 201-500 HP | Other Non-Mfg | Motors | Existing | end use | 15,451 | 1.4% | 0.01 | 8 | \$12 | 22% | 2.91 |
| PECO | Motors: Rewind 201-500 HP | Other Non-Mfg | Motors | New | end use | 15,451 | 1.8% | 0.01 | 8 | \$12 | 22% | 3.18 |
| PECO | Motors: Rewind 20-50 HP | Other Non-Mfg | Motors | Existing | end use | 15,451 | 1.3% | 0.02 | 11 | \$57 | 35% | 1.46 |
| PECO | Motors: Rewind 20-50 HP | Other Non-Mfg | Motors | New | end use | 15,451 | 1.1% | 0.02 | 11 | \$57 | 35% | 1.30 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|--|---------------|------------------------|----------|---------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Motors: Rewind 500+ HP | Other Non-Mfg | Motors | Existing | end use | 15,451 | 1.8% | 0.01 | 8 | \$8.8 | 10% | 3.52 |
| PECO | Motors: Rewind 500+ HP | Other Non-Mfg | Motors | New | end use | 15,451 | 1.3% | 0.01 | 8 | \$8.8 | 10% | 3.18 |
| PECO | Motors: Rewind 51-100 HP | Other Non-Mfg | Motors | Existing | end use | 15,451 | 2.3% | 0.01 | 9 | \$28 | 35% | 2.65 |
| PECO | Motors: Rewind 51-100 HP | Other Non-Mfg | Motors | New | end use | 15,451 | 1.0% | 0.01 | 9 | \$28 | 35% | 1.64 |
| PECO | SIS | Other Non-Mfg | Motors | Existing | end use | 15,451 | 7.6% | 0.17 | 7 | \$973 | 11% | 0.39 |
| PECO | SIS | Other Non-Mfg | Motors | New | end use | 15,451 | 7.5% | 0.17 | 7 | \$973 | 11% | 0.38 |
| PECO | Switch from Belt drive to Direct Drive | Other Non-Mfg | Motors | Early | end use | 15,451 | 7.5% | 0.17 | 12 | \$248 | 25% | 1.95 |
| PECO | Switch from Belt drive to Direct Drive | Other Non-Mfg | Motors | New | end use | 15,451 | 7.5% | 0.17 | 12 | \$248 | 25% | 1.95 |
| PECO | Switch from Belt drive to Direct Drive | Other Non-Mfg | Motors | ROB | end use | 15,451 | 7.5% | 0.17 | 12 | \$248 | 25% | 1.95 |
| PECO | Synchronous Belts | Other Non-Mfg | Motors | Early | end use | 15,451 | 1.2% | 0.03 | 10 | \$23 | 25% | 2.42 |
| PECO | Synchronous Belts | Other Non-Mfg | Motors | New | end use | 15,451 | 1.2% | 0.03 | 10 | \$23 | 25% | 2.42 |
| PECO | Synchronous Belts | Other Non-Mfg | Motors | ROB | end use | 15,451 | 1.2% | 0.03 | 10 | \$23 | 25% | 2.42 |
| PECO | Variable Speed Drives for Dairy Vacuum Pumps | Other Non-Mfg | Motors | Early | end use | 15,451 | 37% | 0.81 | 15 | \$774 | 7% | 3.18 |
| PECO | Variable Speed Drives for Dairy Vacuum Pumps | Other Non-Mfg | Motors | New | end use | 15,451 | 37% | 0.81 | 15 | \$774 | 7% | 3.18 |
| PECO | Variable Speed Drives for Dairy Vacuum Pumps | Other Non-Mfg | Motors | ROB | end use | 15,451 | 37% | 0.81 | 15 | \$774 | 7% | 3.18 |
| PECO | VFDs on Small Milking Machines | Other Non-Mfg | Motors | Early | end use | 15,451 | 3.2% | 0.07 | 15 | \$329 | 7% | 0.90 |
| PECO | VFDs on Small Milking Machines | Other Non-Mfg | Motors | New | end use | 15,451 | 3.2% | 0.07 | 15 | \$329 | 7% | 0.89 |
| PECO | VFDs on Small Milking Machines | Other Non-Mfg | Motors | ROB | end use | 15,451 | 3.2% | 0.07 | 15 | \$329 | 7% | 0.90 |
| PECO | Wood: Replace Pneumatic Conveyor | Other Non-Mfg | Motors | Early | end use | 15,451 | 29% | 0.64 | 10 | \$65 | 11% | 5.63 |
| PECO | Wood: Replace Pneumatic Conveyor | Other Non-Mfg | Motors | New | end use | 15,451 | 29% | 0.64 | 10 | \$65 | 11% | 5.63 |
| PECO | Wood: Replace Pneumatic Conveyor | Other Non-Mfg | Motors | ROB | end use | 15,451 | 29% | 0.64 | 10 | \$65 | 11% | 5.63 |
| PECO | Bldg Improvements | Other Non-Mfg | Other | Existing | end use | 29,693 | 16% | 0.57 | 15 | \$647 | 72% | 3.13 |
| PECO | Bldg Improvements | Other Non-Mfg | Other | New | end use | 29,693 | 16% | 0.57 | 15 | \$647 | 72% | 3.13 |
| PECO | Block Heater Timer | Other Non-Mfg | Other | Existing | end use | 29,693 | 2.5% | 0.09 | 10 | \$29 | 40% | 4.27 |
| PECO | Block Heater Timer | Other Non-Mfg | Other | New | end use | 29,693 | 2.6% | 0.09 | 10 | \$29 | 40% | 4.32 |
| PECO | Energy Project Management | Other Non-Mfg | Other | Existing | end use | 29,693 | 29% | 1.03 | 11 | \$1,060 | 63% | 2.62 |
| PECO | Energy Project Management | Other Non-Mfg | Other | New | end use | 29,693 | 30% | 1.03 | 11 | \$1,060 | 63% | 2.66 |
| PECO | Facility Energy Management | Other Non-Mfg | Other | Existing | end use | 29,693 | 6.5% | 0.07 | 2 | \$11 | 76% | 1.24 |
| PECO | Facility Energy Management | Other Non-Mfg | Other | New | end use | 29,693 | 5.1% | 0.07 | 2 | \$11 | 76% | 1.22 |
| PECO | Grain bin aeration control systems | Other Non-Mfg | Other | Existing | end use | 29,693 | 2.4% | 0.08 | 20 | \$89 | 24% | 3.90 |
| PECO | Grain bin aeration control systems | Other Non-Mfg | Other | New | end use | 29,693 | 2.3% | 0.08 | 20 | \$89 | 24% | 3.81 |
| PECO | Greenhouse Heat Curtain | Other Non-Mfg | Other | Existing | end use | 29,693 | 17% | 0.59 | 5 | \$227 | 5% | 2.14 |
| PECO | Greenhouse Heat Curtain | Other Non-Mfg | Other | New | end use | 29,693 | 17% | 0.59 | 5 | \$227 | 5% | 2.15 |
| PECO | HE Stock tank | Other Non-Mfg | Other | Early | end use | 29,693 | 3.8% | 0.13 | 10 | \$368 | 14% | 1.17 |
| PECO | HE Stock tank | Other Non-Mfg | Other | New | end use | 29,693 | 3.8% | 0.13 | 10 | \$368 | 14% | 1.17 |
| PECO | HE Stock tank | Other Non-Mfg | Other | ROB | end use | 29,693 | 3.8% | 0.13 | 10 | \$368 | 14% | 1.17 |
| PECO | Integrated Plant Energy Management | Other Non-Mfg | Other | Existing | end use | 29,693 | 51% | 1.77 | 11 | \$2,927 | 48% | 1.92 |
| PECO | Integrated Plant Energy Management | Other Non-Mfg | Other | New | end use | 29,693 | 51% | 1.77 | 11 | \$2,927 | 48% | 1.92 |
| PECO | Livestock Waterers | Other Non-Mfg | Other | Early | end use | 29,693 | 11% | 0.40 | 10 | \$876 | 14% | 1.41 |
| PECO | Livestock Waterers | Other Non-Mfg | Other | New | end use | 29,693 | 11% | 0.40 | 10 | \$876 | 14% | 1.41 |
| PECO | Livestock Waterers | Other Non-Mfg | Other | ROB | end use | 29,693 | 11% | 0.40 | 10 | \$876 | 14% | 1.41 |
| PECO | Plant Energy Management | Other Non-Mfg | Other | Existing | end use | 29,693 | 13% | 0.42 | 10 | \$75 | 55% | 5.16 |
| PECO | Plant Energy Management | Other Non-Mfg | Other | New | end use | 29,693 | 12% | 0.42 | 10 | \$75 | 55% | 5.15 |
| PECO | Transformers | Other Non-Mfg | Other | Early | end use | 29,693 | 1.6% | 0.06 | 30 | \$95 | 34% | 3.57 |
| PECO | Transformers | Other Non-Mfg | Other | New | end use | 29,693 | 1.6% | 0.06 | 30 | \$95 | 34% | 3.55 |
| PECO | Transformers | Other Non-Mfg | Other | ROB | end use | 29,693 | 1.6% | 0.06 | 30 | \$95 | 34% | 3.57 |
| PECO | Air Compressor Demand Reduction | Other Non-Mfg | Process Air Compressor | Existing | end use | 1,281 | 26% | 0.04 | 10 | \$19 | 40% | 3.67 |
| PECO | Air Compressor Demand Reduction | Other Non-Mfg | Process Air Compressor | New | end use | 1,281 | 26% | 0.04 | 10 | \$19 | 40% | 3.67 |
| PECO | Air Compressor Equipment | Other Non-Mfg | Process Air Compressor | Early | end use | 1,281 | 39% | 0.06 | 10 | \$23 | 56% | 3.81 |
| PECO | Air Compressor Equipment | Other Non-Mfg | Process Air Compressor | New | end use | 1,281 | 39% | 0.06 | 10 | \$23 | 56% | 3.81 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|-------------------------------------|---------------|------------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Air Compressor Equipment | Other Non-Mfg | Process Air Compressor | ROB | end use | 1,281 | 39% | 0.06 | 10 | \$23 | 56% | 3.81 |
| PECO | Air Compressor Optimization | Other Non-Mfg | Process Air Compressor | Existing | end use | 1,281 | 39% | 0.07 | 10 | \$56 | 42% | 2.61 |
| PECO | Air Compressor Optimization | Other Non-Mfg | Process Air Compressor | New | end use | 1,281 | 39% | 0.07 | 10 | \$56 | 42% | 2.61 |
| PECO | Facility Energy Management | Other Non-Mfg | Process Air Compressor | Existing | end use | 1,281 | 8.0% | 0.00 | 2 | \$0.5 | 50% | 1.25 |
| PECO | Facility Energy Management | Other Non-Mfg | Process Air Compressor | New | end use | 1,281 | 7.6% | 0.00 | 2 | \$0.5 | 50% | 1.25 |
| PECO | HE Compressor motors | Other Non-Mfg | Process Air Compressor | Early | end use | 1,281 | 1.1% | 0.00 | 15 | \$4.8 | 56% | 1.48 |
| PECO | HE Compressor motors | Other Non-Mfg | Process Air Compressor | New | end use | 1,281 | 1.1% | 0.00 | 15 | \$4.8 | 56% | 1.48 |
| PECO | HE Compressor motors | Other Non-Mfg | Process Air Compressor | ROB | end use | 1,281 | 1.1% | 0.00 | 15 | \$4.8 | 56% | 1.49 |
| PECO | Improved Controls - Air Compressor | Other Non-Mfg | Process Air Compressor | Existing | end use | 1,281 | 41% | 0.07 | 10 | \$23 | 19% | 4.13 |
| PECO | Improved Controls - Air Compressor | Other Non-Mfg | Process Air Compressor | New | end use | 1,281 | 41% | 0.07 | 10 | \$23 | 19% | 4.13 |
| PECO | Low Pressure-drop Filters | Other Non-Mfg | Process Air Compressor | Existing | end use | 1,281 | 2.3% | 0.00 | 10 | \$15 | 46% | 0.83 |
| PECO | Low Pressure-drop Filters | Other Non-Mfg | Process Air Compressor | New | end use | 1,281 | 2.7% | 0.00 | 10 | \$15 | 46% | 0.94 |
| PECO | Outside Air Intake | Other Non-Mfg | Process Air Compressor | Existing | end use | 1,281 | 2.9% | 0.00 | 10 | \$8.4 | 37% | 1.51 |
| PECO | Outside Air Intake | Other Non-Mfg | Process Air Compressor | New | end use | 1,281 | 1.7% | 0.00 | 10 | \$8.4 | 37% | 1.03 |
| PECO | Receiver Capacity Addition | Other Non-Mfg | Process Air Compressor | Existing | end use | 1,281 | 6.5% | 0.01 | 10 | \$24 | 28% | 1.32 |
| PECO | Receiver Capacity Addition | Other Non-Mfg | Process Air Compressor | New | end use | 1,281 | 6.6% | 0.01 | 10 | \$24 | 28% | 1.33 |
| PECO | Refrigerated Cycling Dryers | Other Non-Mfg | Process Air Compressor | Early | end use | 1,281 | 1.7% | 0.00 | 10 | \$2.9 | 16% | 2.14 |
| PECO | Refrigerated Cycling Dryers | Other Non-Mfg | Process Air Compressor | New | end use | 1,281 | 1.7% | 0.00 | 10 | \$2.9 | 16% | 2.16 |
| PECO | Refrigerated Cycling Dryers | Other Non-Mfg | Process Air Compressor | ROB | end use | 1,281 | 1.7% | 0.00 | 10 | \$2.9 | 16% | 2.14 |
| PECO | VFD Controlled Compressor | Other Non-Mfg | Process Air Compressor | Early | end use | 1,281 | 24% | 0.04 | 10 | \$126 | 22% | 0.92 |
| PECO | VFD Controlled Compressor | Other Non-Mfg | Process Air Compressor | New | end use | 1,281 | 24% | 0.04 | 10 | \$126 | 22% | 0.92 |
| PECO | VFD Controlled Compressor | Other Non-Mfg | Process Air Compressor | ROB | end use | 1,281 | 24% | 0.04 | 10 | \$126 | 22% | 0.92 |
| PECO | Zero Loss Condensate Drain | Other Non-Mfg | Process Air Compressor | Early | end use | 1,281 | 1.9% | 0.00 | 10 | \$7.3 | 28% | 1.18 |
| PECO | Zero Loss Condensate Drain | Other Non-Mfg | Process Air Compressor | New | end use | 1,281 | 1.9% | 0.00 | 10 | \$7.3 | 28% | 1.18 |
| PECO | Zero Loss Condensate Drain | Other Non-Mfg | Process Air Compressor | ROB | end use | 1,281 | 1.9% | 0.00 | 10 | \$7.3 | 28% | 1.18 |
| PECO | Cooling Tower Optimization | Other Non-Mfg | Process Cooling | Existing | building | 16,988 | 20% | 1.22 | 10 | \$104 | 15% | 5.57 |
| PECO | Equipment: Chillers | Other Non-Mfg | Process Cooling | Early | end use | 16,988 | 18% | 0.63 | 20 | \$797 | 39% | 2.37 |
| PECO | Equipment: Chillers | Other Non-Mfg | Process Cooling | New | end use | 16,988 | 18% | 0.63 | 20 | \$797 | 39% | 2.37 |
| PECO | Equipment: Chillers | Other Non-Mfg | Process Cooling | ROB | end use | 16,988 | 18% | 0.63 | 20 | \$797 | 39% | 2.37 |
| PECO | Facility Energy Management | Other Non-Mfg | Process Cooling | Existing | end use | 16,988 | 8.5% | 0.07 | 2 | \$6.5 | 50% | 1.27 |
| PECO | Facility Energy Management | Other Non-Mfg | Process Cooling | New | end use | 16,988 | 9.5% | 0.07 | 2 | \$6.5 | 50% | 1.28 |
| PECO | Improved Controls - Process Cooling | Other Non-Mfg | Process Cooling | Existing | end use | 16,988 | 7.4% | 0.21 | 10 | \$897 | 47% | 0.62 |
| PECO | Improved Controls - Process Cooling | Other Non-Mfg | Process Cooling | New | end use | 16,988 | 7.3% | 0.21 | 10 | \$897 | 47% | 0.62 |
| PECO | Milk Precooler - Dairy Plate Cooler | Other Non-Mfg | Process Cooling | Early | end use | 16,988 | 3.2% | 0.11 | 15 | \$289 | 8% | 1.10 |
| PECO | Milk Precooler - Dairy Plate Cooler | Other Non-Mfg | Process Cooling | New | end use | 16,988 | 3.2% | 0.11 | 15 | \$289 | 8% | 1.10 |
| PECO | Milk Precooler - Dairy Plate Cooler | Other Non-Mfg | Process Cooling | ROB | end use | 16,988 | 3.2% | 0.11 | 15 | \$289 | 8% | 1.10 |
| PECO | VFD on Cooling Tower Fan | Other Non-Mfg | Process Cooling | Early | motor | 16,988 | 21% | 1.07 | 15 | \$1,128 | 20% | 1.93 |
| PECO | VFD on Cooling Tower Fan | Other Non-Mfg | Process Cooling | New | motor | 16,988 | 22% | 1.07 | 15 | \$1,150 | 20% | 1.92 |
| PECO | VFD on Cooling Tower Fan | Other Non-Mfg | Process Cooling | ROB | motor | 16,988 | 22% | 1.07 | 15 | \$1,150 | 20% | 1.92 |
| PECO | Crate Heating Pads | Other Non-Mfg | Process Heating | Early | end use | 68,818 | 18% | 1.65 | 15 | \$1,749 | 9% | 2.85 |
| PECO | Crate Heating Pads | Other Non-Mfg | Process Heating | New | end use | 68,818 | 18% | 1.65 | 15 | \$1,749 | 9% | 2.86 |
| PECO | Crate Heating Pads | Other Non-Mfg | Process Heating | ROB | end use | 68,818 | 18% | 1.65 | 15 | \$1,749 | 9% | 2.86 |
| PECO | Grain dryers | Other Non-Mfg | Process Heating | Early | end use | 68,818 | 24% | 2.21 | 20 | \$106,200 | 9% | 0.11 |
| PECO | Grain dryers | Other Non-Mfg | Process Heating | New | end use | 68,818 | 24% | 2.21 | 20 | \$106,200 | 9% | 0.11 |
| PECO | Grain dryers | Other Non-Mfg | Process Heating | ROB | end use | 68,818 | 24% | 2.21 | 20 | \$106,200 | 9% | 0.11 |
| PECO | Heat Lamp Setback (Microzone) | Other Non-Mfg | Process Heating | Existing | end use | 68,818 | 0.6% | 0.04 | 15 | \$53 | 4% | 3.05 |
| PECO | Heat Lamp Setback (Microzone) | Other Non-Mfg | Process Heating | New | end use | 68,818 | 0.5% | 0.04 | 15 | \$53 | 4% | 2.71 |
| PECO | Heat Lamp/Heating Pad Controller | Other Non-Mfg | Process Heating | Existing | end use | 68,818 | 1.8% | 0.16 | 15 | \$126 | 4% | 3.72 |
| PECO | Heat Lamp/Heating Pad Controller | Other Non-Mfg | Process Heating | New | end use | 68,818 | 1.9% | 0.16 | 15 | \$126 | 4% | 3.82 |
| PECO | Heat Lamps | Other Non-Mfg | Process Heating | Early | end use | 68,818 | 3.4% | 0.32 | 10 | \$44 | 9% | 5.03 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|------|---------------------------------------|----------------|-----------------------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PECO | Heat Lamps | Other Non-Mfg | Process Heating | New | end use | 68,818 | 3.4% | 0.32 | 10 | \$44 | 9% | 5.03 |
| PECO | Heat Lamps | Other Non-Mfg | Process Heating | ROB | end use | 68,818 | 3.4% | 0.32 | 10 | \$44 | 9% | 5.03 |
| PECO | Improved Controls - Process Heating | Other Non-Mfg | Process Heating | Existing | end use | 68,818 | 17% | 1.62 | 10 | \$791 | 23% | 3.46 |
| PECO | Improved Controls - Process Heating | Other Non-Mfg | Process Heating | New | end use | 68,818 | 17% | 1.62 | 10 | \$791 | 23% | 3.46 |
| PECO | Process Heat O&M | Other Non-Mfg | Process Heating | Existing | end use | 68,818 | 16% | 1.53 | 2 | \$478 | 23% | 0.92 |
| PECO | Process Heat O&M | Other Non-Mfg | Process Heating | New | end use | 68,818 | 16% | 1.53 | 2 | \$478 | 23% | 0.92 |
| PECO | Facility Energy Management | Other Non-Mfg | Process Other | Existing | end use | 7,430 | 11% | 0.02 | 2 | \$2.9 | 73% | 1.26 |
| PECO | Facility Energy Management | Other Non-Mfg | Process Other | New | end use | 7,430 | 10% | 0.02 | 2 | \$2.9 | 73% | 1.26 |
| PECO | Adjustable speed drive on compressors | Other Non-Mfg | Process Refrigeration | Early | end use | 8,727 | 12% | 0.15 | 10 | \$161 | 30% | 1.92 |
| PECO | Adjustable speed drive on compressors | Other Non-Mfg | Process Refrigeration | New | end use | 8,727 | 12% | 0.15 | 10 | \$161 | 30% | 1.92 |
| PECO | Adjustable speed drive on compressors | Other Non-Mfg | Process Refrigeration | ROB | end use | 8,727 | 12% | 0.15 | 10 | \$161 | 30% | 1.92 |
| PECO | Cooling Tower Optimization | Other Non-Mfg | Process Refrigeration | Existing | building | 8,727 | 20% | 0.62 | 10 | \$54 | 15% | 5.57 |
| PECO | Optimization of operating parameters | Other Non-Mfg | Process Refrigeration | Existing | end use | 8,727 | 13% | 0.17 | 3 | \$70 | 27% | 1.09 |
| PECO | Optimization of operating parameters | Other Non-Mfg | Process Refrigeration | New | end use | 8,727 | 14% | 0.17 | 3 | \$70 | 27% | 1.11 |
| PECO | Synchronous Belts | Other Non-Mfg | Process Refrigeration | Early | end use | 8,727 | 1.2% | 0.01 | 10 | \$13 | 30% | 2.23 |
| PECO | Synchronous Belts | Other Non-Mfg | Process Refrigeration | New | end use | 8,727 | 1.2% | 0.01 | 10 | \$13 | 30% | 2.23 |
| PECO | Synchronous Belts | Other Non-Mfg | Process Refrigeration | ROB | end use | 8,727 | 1.2% | 0.01 | 10 | \$13 | 30% | 2.23 |
| PECO | VFD on Cooling Tower Fan | Other Non-Mfg | Process Refrigeration | Early | motor | 8,727 | 21% | 0.55 | 15 | \$579 | 20% | 1.93 |
| PECO | VFD on Cooling Tower Fan | Other Non-Mfg | Process Refrigeration | New | motor | 8,727 | 22% | 0.55 | 15 | \$591 | 20% | 1.92 |
| PECO | VFD on Cooling Tower Fan | Other Non-Mfg | Process Refrigeration | ROB | motor | 8,727 | 22% | 0.55 | 15 | \$591 | 20% | 1.92 |
| PECO | Facility Energy Management | Other Non-Mfg | Pumps | Existing | end use | 86,609 | 13% | 0.21 | 2 | \$33 | 34% | 1.20 |
| PECO | Facility Energy Management | Other Non-Mfg | Pumps | New | end use | 86,609 | 12% | 0.21 | 2 | \$33 | 34% | 1.20 |
| PECO | HE Motors | Other Non-Mfg | Pumps | Early | end use | 86,609 | 2.0% | 0.23 | 15 | \$516 | 36% | 1.70 |
| PECO | HE Motors | Other Non-Mfg | Pumps | New | end use | 86,609 | 2.0% | 0.23 | 15 | \$516 | 36% | 1.70 |
| PECO | HE Motors | Other Non-Mfg | Pumps | ROB | end use | 86,609 | 2.0% | 0.23 | 15 | \$516 | 36% | 1.70 |
| PECO | Motor rewinds | Other Non-Mfg | Pumps | Existing | end use | 86,609 | 0.8% | 0.07 | 9 | \$123 | 6% | 1.60 |
| PECO | Motor rewinds | Other Non-Mfg | Pumps | New | end use | 86,609 | 0.7% | 0.07 | 9 | \$123 | 6% | 1.47 |
| PECO | Synchronous Belts | Other Non-Mfg | Pumps | Early | end use | 86,609 | 1.2% | 0.13 | 10 | \$128 | 30% | 2.28 |
| PECO | Synchronous Belts | Other Non-Mfg | Pumps | New | end use | 86,609 | 1.2% | 0.13 | 10 | \$128 | 30% | 2.28 |
| PECO | Synchronous Belts | Other Non-Mfg | Pumps | ROB | end use | 86,609 | 1.2% | 0.13 | 10 | \$128 | 30% | 2.28 |
| PPL | Circulating Fans | Mfg: Chemicals | Fans | Early | end use | 1,328,640 | 5.0% | 7.91 | 10 | \$8,088 | 68% | 2.28 |
| PPL | Circulating Fans | Mfg: Chemicals | Fans | New | end use | 1,328,640 | 5.0% | 7.91 | 10 | \$8,088 | 68% | 2.28 |
| PPL | Circulating Fans | Mfg: Chemicals | Fans | ROB | end use | 1,328,640 | 5.0% | 7.91 | 10 | \$8,088 | 68% | 2.28 |
| PPL | Facility Energy Management | Mfg: Chemicals | Fans | Existing | end use | 1,328,640 | 1.9% | 2.91 | 2 | \$512 | 77% | 1.07 |
| PPL | Facility Energy Management | Mfg: Chemicals | Fans | New | end use | 1,328,640 | 1.9% | 2.91 | 2 | \$512 | 77% | 1.07 |
| PPL | HE Motors | Mfg: Chemicals | Fans | Early | end use | 1,328,640 | 2.0% | 3.24 | 15 | \$7,909 | 77% | 1.73 |
| PPL | HE Motors | Mfg: Chemicals | Fans | New | end use | 1,328,640 | 2.0% | 3.24 | 15 | \$7,909 | 77% | 1.73 |
| PPL | HE Motors | Mfg: Chemicals | Fans | ROB | end use | 1,328,640 | 2.0% | 3.24 | 15 | \$7,909 | 77% | 1.73 |
| PPL | Improved Controls - Fans | Mfg: Chemicals | Fans | Existing | end use | 1,328,640 | 7.1% | 11.24 | 10 | \$5,151 | 88% | 3.27 |
| PPL | Improved Controls - Fans | Mfg: Chemicals | Fans | New | end use | 1,328,640 | 7.1% | 11.24 | 10 | \$5,151 | 88% | 3.27 |
| PPL | Properly Sized Fans | Mfg: Chemicals | Fans | Early | end use | 1,328,640 | 13% | 20.81 | 10 | \$27,212 | 41% | 1.93 |
| PPL | Properly Sized Fans | Mfg: Chemicals | Fans | New | end use | 1,328,640 | 13% | 20.81 | 10 | \$27,212 | 41% | 1.93 |
| PPL | Properly Sized Fans | Mfg: Chemicals | Fans | ROB | end use | 1,328,640 | 13% | 20.81 | 10 | \$27,212 | 41% | 1.93 |
| PPL | Synchronous Belts | Mfg: Chemicals | Fans | Early | end use | 1,328,640 | 1.2% | 1.84 | 10 | \$1,958 | 41% | 2.22 |
| PPL | Synchronous Belts | Mfg: Chemicals | Fans | New | end use | 1,328,640 | 1.2% | 1.84 | 10 | \$1,958 | 41% | 2.22 |
| PPL | Synchronous Belts | Mfg: Chemicals | Fans | ROB | end use | 1,328,640 | 1.2% | 1.84 | 10 | \$1,958 | 41% | 2.22 |
| PPL | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Chemicals | HVAC | Early | unit (ton) | 531,338 | 9.2% | 12.64 | 15 | \$96,790 | 28% | 0.34 |
| PPL | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Chemicals | HVAC | New | unit (ton) | 531,338 | 4.1% | 5.68 | 15 | \$23,450 | 28% | 0.61 |
| PPL | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Chemicals | HVAC | ROB | unit (ton) | 531,338 | 4.1% | 5.68 | 15 | \$23,450 | 28% | 0.61 |
| PPL | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Chemicals | HVAC | Early | unit (ton) | 531,338 | 12% | 17.10 | 15 | \$114,105 | 28% | 0.38 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|----------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Chemicals | HVAC | New | unit (ton) | 531,338 | 7.7% | 10.60 | 15 | \$49,391 | 28% | 0.54 |
| PPL | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Chemicals | HVAC | ROB | unit (ton) | 531,338 | 7.7% | 10.60 | 15 | \$49,391 | 28% | 0.54 |
| PPL | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Chemicals | HVAC | Early | unit (ton) | 531,338 | 15% | 21.00 | 15 | \$131,420 | 29% | 0.41 |
| PPL | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Chemicals | HVAC | New | unit (ton) | 531,338 | 11% | 14.91 | 15 | \$75,332 | 29% | 0.50 |
| PPL | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Chemicals | HVAC | ROB | unit (ton) | 531,338 | 11% | 14.91 | 15 | \$75,332 | 29% | 0.50 |
| PPL | >760k min 10.2 EER Air Conditioner | Mfg: Chemicals | HVAC | Early | unit (ton) | 531,338 | 2.1% | 2.93 | 15 | \$168,553 | 35% | 0.05 |
| PPL | >760k min 10.2 EER Air Conditioner | Mfg: Chemicals | HVAC | New | unit (ton) | 531,338 | 2.8% | 3.90 | 15 | \$15,234 | 35% | 0.64 |
| PPL | >760k min 10.2 EER Air Conditioner | Mfg: Chemicals | HVAC | ROB | unit (ton) | 531,338 | 2.8% | 3.90 | 15 | \$15,234 | 35% | 0.64 |
| PPL | 135-240k min 12 EER Air Conditioner | Mfg: Chemicals | HVAC | Early | unit (ton) | 531,338 | 10% | 14.41 | 15 | \$182,516 | 35% | 0.21 |
| PPL | 135-240k min 12 EER Air Conditioner | Mfg: Chemicals | HVAC | New | unit (ton) | 531,338 | 5.8% | 7.95 | 15 | \$21,551 | 35% | 0.90 |
| PPL | 135-240k min 12 EER Air Conditioner | Mfg: Chemicals | HVAC | ROB | unit (ton) | 531,338 | 5.8% | 7.95 | 15 | \$21,551 | 35% | 0.90 |
| PPL | 240k-760k min 11 EER Air Conditioner | Mfg: Chemicals | HVAC | Early | unit (ton) | 531,338 | 5.2% | 7.18 | 15 | \$168,659 | 35% | 0.11 |
| PPL | 240k-760k min 11 EER Air Conditioner | Mfg: Chemicals | HVAC | New | unit (ton) | 531,338 | 5.3% | 7.36 | 15 | \$18,069 | 35% | 0.98 |
| PPL | 240k-760k min 11 EER Air Conditioner | Mfg: Chemicals | HVAC | ROB | unit (ton) | 531,338 | 5.3% | 7.36 | 15 | \$18,069 | 35% | 0.98 |
| PPL | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Chemicals | HVAC | Early | unit (ton) | 531,338 | 9.7% | 13.37 | 15 | \$186,881 | 35% | 0.19 |
| PPL | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Chemicals | HVAC | New | unit (ton) | 531,338 | 3.8% | 5.30 | 15 | \$26,663 | 35% | 0.50 |
| PPL | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Chemicals | HVAC | ROB | unit (ton) | 531,338 | 3.8% | 5.30 | 15 | \$26,663 | 35% | 0.50 |
| PPL | Ceiling Insualtions (Going upto R 20) | Mfg: Chemicals | HVAC | Existing | building | 531,338 | 5.9% | 7.89 | 15 | \$1,609,871 | 71% | 0.01 |
| PPL | Ceiling Insualtions (Going upto R 20) | Mfg: Chemicals | HVAC | New | building | 531,338 | 3.7% | 4.95 | 15 | \$1,530,227 | 94% | 0.01 |
| PPL | Chiller Tuneup/Diagnostics | Mfg: Chemicals | HVAC | Existing | building | 531,338 | 8.0% | 15.59 | 10 | \$1,356,744 | 59% | 0.02 |
| PPL | Chiller Tuneup/Diagnostics | Mfg: Chemicals | HVAC | New | building | 531,338 | 8.0% | 15.61 | 10 | \$1,356,744 | 59% | 0.02 |
| PPL | Cooling Tower Optimization | Mfg: Chemicals | HVAC | Existing | building | 531,338 | 20% | 38.03 | 10 | \$3,258 | 12% | 5.25 |
| PPL | Duct Insulation, Add R8 | Mfg: Chemicals | HVAC | Existing | building | 531,338 | 1.5% | 1.70 | 15 | \$4,221 | 18% | 1.10 |
| PPL | Duct Insulation, Add R8 | Mfg: Chemicals | HVAC | New | building | 531,338 | 1.5% | 1.70 | 15 | \$4,221 | 9% | 1.10 |
| PPL | Ductless Heat Pump | Mfg: Chemicals | HVAC | Early | heat pump | 531,338 | 0.8% | 0.99 | 15 | \$42,201 | 83% | 0.07 |
| PPL | Ductless Heat Pump | Mfg: Chemicals | HVAC | New | heat pump | 531,338 | 0.4% | 0.52 | 15 | \$12,255 | 83% | 0.13 |
| PPL | Ductless Heat Pump | Mfg: Chemicals | HVAC | ROB | heat pump | 531,338 | 0.4% | 0.52 | 15 | \$12,255 | 83% | 0.13 |
| PPL | DX Coil Cleaning | Mfg: Chemicals | HVAC | Existing | building | 531,338 | 13% | 24.37 | 1 | \$5,093 | 73% | 0.48 |
| PPL | DX Coil Cleaning | Mfg: Chemicals | HVAC | New | building | 531,338 | 13% | 24.37 | 1 | \$5,093 | 73% | 0.48 |
| PPL | Efficient Unit Heating System | Mfg: Chemicals | HVAC | Early | heater | 531,338 | 6.9% | 0.31 | 15 | \$28,622 | 83% | 0.62 |
| PPL | Efficient Unit Heating System | Mfg: Chemicals | HVAC | New | heater | 531,338 | 4.0% | 0.17 | 15 | \$19,523 | 83% | 0.53 |
| PPL | Efficient Unit Heating System | Mfg: Chemicals | HVAC | ROB | heater | 531,338 | 4.0% | 0.17 | 15 | \$19,523 | 83% | 0.53 |
| PPL | Ground Source Heat Pump (Closed Loop) | Mfg: Chemicals | HVAC | Early | heat pump | 531,338 | 1.3% | 1.55 | 15 | \$87,626 | 19% | 0.05 |
| PPL | Ground Source Heat Pump (Closed Loop) | Mfg: Chemicals | HVAC | New | heat pump | 531,338 | 1.0% | 1.22 | 15 | \$34,598 | 19% | 0.10 |
| PPL | Ground Source Heat Pump (Closed Loop) | Mfg: Chemicals | HVAC | ROB | heat pump | 531,338 | 1.0% | 1.22 | 15 | \$34,598 | 19% | 0.10 |
| PPL | Ground Source Heat Pump (Open Loop) | Mfg: Chemicals | HVAC | Early | heat pump | 531,338 | 1.3% | 1.55 | 15 | \$56,120 | 19% | 0.08 |
| PPL | Ground Source Heat Pump (Open Loop) | Mfg: Chemicals | HVAC | New | heat pump | 531,338 | 1.0% | 1.22 | 15 | \$1,190 | 19% | 2.32 |
| PPL | Ground Source Heat Pump (Open Loop) | Mfg: Chemicals | HVAC | ROB | heat pump | 531,338 | 1.0% | 1.22 | 15 | \$1,190 | 19% | 2.32 |
| PPL | HE Air Cooled Chiller, 100 Tons | Mfg: Chemicals | HVAC | Early | unit (ton) | 531,338 | 1.5% | 1.76 | 15 | \$624,671 | 89% | 0.01 |
| PPL | HE Air Cooled Chiller, 100 Tons | Mfg: Chemicals | HVAC | New | unit (ton) | 531,338 | 0.4% | 0.50 | 15 | \$91,003 | 89% | 0.02 |
| PPL | HE Air Cooled Chiller, 100 Tons | Mfg: Chemicals | HVAC | ROB | unit (ton) | 531,338 | 0.4% | 0.50 | 15 | \$91,003 | 89% | 0.02 |
| PPL | HE Air Cooled Chiller, 150 Tons | Mfg: Chemicals | HVAC | Early | unit (ton) | 531,338 | 1.5% | 1.74 | 15 | \$539,576 | 89% | 0.01 |
| PPL | HE Air Cooled Chiller, 150 Tons | Mfg: Chemicals | HVAC | New | unit (ton) | 531,338 | 0.3% | 0.36 | 15 | \$44,691 | 89% | 0.02 |
| PPL | HE Air Cooled Chiller, 150 Tons | Mfg: Chemicals | HVAC | ROB | unit (ton) | 531,338 | 0.3% | 0.36 | 15 | \$44,691 | 89% | 0.02 |
| PPL | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Chemicals | HVAC | Early | heat pump | 531,338 | 1.4% | 1.64 | 12 | \$22,874 | 81% | 0.17 |
| PPL | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Chemicals | HVAC | Early | heat pump | 531,338 | 1.1% | 1.35 | 12 | \$16,712 | 81% | 0.20 |
| PPL | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Chemicals | HVAC | New | heat pump | 531,338 | 1.0% | 1.22 | 12 | \$10,212 | 81% | 0.29 |
| PPL | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Chemicals | HVAC | New | heat pump | 531,338 | 0.8% | 0.91 | 12 | \$3,570 | 81% | 0.58 |
| PPL | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Chemicals | HVAC | ROB | heat pump | 531,338 | 1.0% | 1.22 | 12 | \$10,212 | 81% | 0.29 |
| PPL | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Chemicals | HVAC | ROB | heat pump | 531,338 | 0.8% | 0.91 | 12 | \$3,570 | 81% | 0.58 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|----------------|----------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Chemicals | HVAC | Early | unit (ton) | 531,338 | 1.6% | 1.92 | 15 | \$49,564 | 89% | 0.11 |
| PPL | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Chemicals | HVAC | New | unit (ton) | 531,338 | 0.9% | 1.11 | 15 | \$16,485 | 89% | 0.20 |
| PPL | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Chemicals | HVAC | ROB | unit (ton) | 531,338 | 0.9% | 1.11 | 15 | \$16,485 | 89% | 0.20 |
| PPL | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Chemicals | HVAC | Early | unit (ton) | 531,338 | 1.4% | 1.70 | 15 | \$48,407 | 89% | 0.10 |
| PPL | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Chemicals | HVAC | New | unit (ton) | 531,338 | 1.0% | 1.19 | 15 | \$9,453 | 89% | 0.36 |
| PPL | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Chemicals | HVAC | ROB | unit (ton) | 531,338 | 1.4% | 1.70 | 15 | \$8,684 | 89% | 0.55 |
| PPL | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Chemicals | HVAC | Early | unit (ton) | 531,338 | 1.4% | 1.68 | 15 | \$57,292 | 89% | 0.09 |
| PPL | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Chemicals | HVAC | New | unit (ton) | 531,338 | 0.9% | 1.07 | 15 | \$24,122 | 89% | 0.13 |
| PPL | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Chemicals | HVAC | ROB | unit (ton) | 531,338 | 1.4% | 1.68 | 15 | \$21,832 | 89% | 0.22 |
| PPL | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Chemicals | HVAC | Early | unit (ton) | 531,338 | 1.4% | 1.68 | 15 | \$55,187 | 89% | 0.09 |
| PPL | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Chemicals | HVAC | New | unit (ton) | 531,338 | 0.9% | 1.07 | 15 | \$20,968 | 89% | 0.15 |
| PPL | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Chemicals | HVAC | ROB | unit (ton) | 531,338 | 1.4% | 1.68 | 15 | \$18,977 | 89% | 0.26 |
| PPL | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Chemicals | HVAC | Early | unit (ton) | 531,338 | 1.8% | 2.17 | 15 | \$59,466 | 89% | 0.11 |
| PPL | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Chemicals | HVAC | New | unit (ton) | 531,338 | 0.6% | 0.66 | 15 | \$36,822 | 89% | 0.05 |
| PPL | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Chemicals | HVAC | ROB | unit (ton) | 531,338 | 1.8% | 2.17 | 15 | \$28,592 | 89% | 0.22 |
| PPL | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Chemicals | HVAC | Early | unit (ton) | 531,338 | 2.2% | 2.58 | 15 | \$54,696 | 89% | 0.14 |
| PPL | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Chemicals | HVAC | New | unit (ton) | 531,338 | 0.8% | 0.93 | 15 | \$21,948 | 89% | 0.13 |
| PPL | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Chemicals | HVAC | ROB | unit (ton) | 531,338 | 0.8% | 0.93 | 15 | \$21,948 | 89% | 0.13 |
| PPL | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Chemicals | HVAC | Early | unit (ton) | 531,338 | 2.4% | 2.91 | 15 | \$46,357 | 89% | 0.18 |
| PPL | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Chemicals | HVAC | New | unit (ton) | 531,338 | 0.9% | 1.09 | 15 | \$11,665 | 89% | 0.27 |
| PPL | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Chemicals | HVAC | ROB | unit (ton) | 531,338 | 2.4% | 2.91 | 15 | \$8,317 | 89% | 0.94 |
| PPL | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Chemicals | HVAC | Early | unit (ton) | 531,338 | 1.8% | 2.20 | 15 | \$45,890 | 89% | 0.14 |
| PPL | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Chemicals | HVAC | New | unit (ton) | 531,338 | 0.7% | 0.82 | 15 | \$12,850 | 89% | 0.19 |
| PPL | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Chemicals | HVAC | ROB | unit (ton) | 531,338 | 1.8% | 2.20 | 15 | \$10,181 | 89% | 0.60 |
| PPL | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Chemicals | HVAC | Existing | building | 531,338 | 2.9% | 3.13 | 5 | \$5,637 | 55% | 0.57 |
| PPL | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Chemicals | HVAC | New | building | 531,338 | 0.6% | 1.24 | 5 | \$3,382 | 51% | 0.28 |
| PPL | Improved Controls - HVAC | Mfg: Chemicals | HVAC | Existing | end use | 531,338 | 21% | 15.93 | 10 | \$5,586 | 76% | 3.49 |
| PPL | Improved Controls - HVAC | Mfg: Chemicals | HVAC | New | end use | 531,338 | 21% | 15.93 | 10 | \$5,586 | 76% | 3.49 |
| PPL | Outside Air Economizer | Mfg: Chemicals | HVAC | Existing | building | 531,338 | 1.1% | 1.49 | 10 | \$1,952,236 | 82% | 0.00 |
| PPL | Outside Air Economizer | Mfg: Chemicals | HVAC | New | building | 531,338 | 1.1% | 1.49 | 10 | \$1,952,236 | 82% | 0.00 |
| PPL | Recommissioning | Mfg: Chemicals | HVAC | Existing | end use | 531,338 | 5.0% | 3.81 | 10 | \$729 | 88% | 4.30 |
| PPL | Recommissioning | Mfg: Chemicals | HVAC | New | end use | 531,338 | 5.0% | 3.81 | 10 | \$729 | 88% | 4.30 |
| PPL | Room AC (with louvered sides) | Mfg: Chemicals | HVAC | Early | unit (ton) | 531,338 | 7.7% | 9.22 | 9 | \$41,646 | 78% | 0.39 |
| PPL | Room AC (with louvered sides) | Mfg: Chemicals | HVAC | New | unit (ton) | 531,338 | 2.6% | 3.08 | 9 | \$2,280 | 78% | 1.77 |
| PPL | Room AC (with louvered sides) | Mfg: Chemicals | HVAC | ROB | unit (ton) | 531,338 | 2.6% | 3.07 | 9 | \$2,280 | 78% | 1.77 |
| PPL | Variable Refrigerant Flow Heat Pump | Mfg: Chemicals | HVAC | New | measure | 531,338 | 0.1% | 0.14 | 13 | \$3,930 | 43% | 0.09 |
| PPL | Variable Refrigerant Flow Heat Pump | Mfg: Chemicals | HVAC | ROB | measure | 531,338 | 0.1% | 0.14 | 13 | \$3,930 | 43% | 0.09 |
| PPL | VFD on Cooling Tower Fan | Mfg: Chemicals | HVAC | Early | motor | 531,338 | 21% | 33.43 | 15 | \$24,481 | 20% | 2.52 |
| PPL | VFD on Cooling Tower Fan | Mfg: Chemicals | HVAC | New | motor | 531,338 | 22% | 33.44 | 15 | \$24,948 | 15% | 2.51 |
| PPL | VFD on Cooling Tower Fan | Mfg: Chemicals | HVAC | ROB | motor | 531,338 | 22% | 33.44 | 15 | \$24,948 | 15% | 2.51 |
| PPL | Wall Insualtions (Going upto R 21) | Mfg: Chemicals | HVAC | Existing | building | 531,338 | 19% | 25.40 | 15 | \$377,975 | 26% | 0.18 |
| PPL | Wall Insualtions (Going upto R 21) | Mfg: Chemicals | HVAC | New | building | 531,338 | 0.6% | 0.81 | 15 | \$289,925 | 94% | 0.01 |
| PPL | Water Source Heat Pump (4 ton) | Mfg: Chemicals | HVAC | Early | heat pump | 531,338 | 1.5% | 1.84 | 15 | \$90,741 | 6% | 0.06 |
| PPL | Water Source Heat Pump (4 ton) | Mfg: Chemicals | HVAC | New | heat pump | 531,338 | 1.1% | 1.35 | 15 | \$44,225 | 6% | 0.09 |
| PPL | Water Source Heat Pump (4 ton) | Mfg: Chemicals | HVAC | ROB | heat pump | 531,338 | 1.1% | 1.35 | 15 | \$44,225 | 6% | 0.09 |
| PPL | Efficient Metal Halide (High Bay) | Mfg: Chemicals | Lighting | Early | end use | 310,954 | 42% | 0.00 | 9 | \$48,590 | 53% | 0.76 |
| PPL | Efficient Metal Halide (High Bay) | Mfg: Chemicals | Lighting | New | end use | 310,954 | 41% | 0.00 | 13 | \$1,297,862 | 61% | 0.05 |
| PPL | Efficient Metal Halide (High Bay) | Mfg: Chemicals | Lighting | ROB | end use | 310,954 | 41% | 0.00 | 13 | \$991,898 | 61% | 0.06 |
| PPL | Induction (High Bay) | Mfg: Chemicals | Lighting | Early | end use | 310,954 | 94% | 0.00 | 13 | \$144,577 | 95% | 0.85 |
| PPL | Induction (High Bay) | Mfg: Chemicals | Lighting | New | end use | 310,954 | 94% | 0.00 | 13 | \$135,360 | 95% | 0.90 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---------------------------------------|----------------|----------|----------|---------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Induction (High Bay) | Mfg: Chemicals | Lighting | ROB | end use | 310,954 | 94% | 0.00 | 13 | \$102,878 | 95% | 1.14 |
| PPL | LED (High Bay) | Mfg: Chemicals | Lighting | Early | end use | 310,954 | 69% | 0.00 | 14 | \$170,188 | 95% | 0.59 |
| PPL | LED (High Bay) | Mfg: Chemicals | Lighting | New | end use | 310,954 | 55% | 0.00 | 14 | \$188,904 | 95% | 0.43 |
| PPL | LED (High Bay) | Mfg: Chemicals | Lighting | ROB | end use | 310,954 | 59% | 0.00 | 14 | \$124,466 | 95% | 0.68 |
| PPL | Lighting Controls | Mfg: Chemicals | Lighting | Existing | end use | 310,954 | 20% | 0.00 | 6 | \$1,165,730 | 16% | 0.01 |
| PPL | Lighting Controls | Mfg: Chemicals | Lighting | New | end use | 310,954 | 12% | 0.00 | 10 | \$1,550,802 | 11% | 0.01 |
| PPL | Linear Fluorescent (High Bay) | Mfg: Chemicals | Lighting | Early | end use | 310,954 | 17% | 0.00 | 14 | \$35,580 | 98% | 0.68 |
| PPL | Linear Fluorescent (High Bay) | Mfg: Chemicals | Lighting | New | end use | 310,954 | 13% | 0.00 | 14 | \$11,283 | 91% | 1.43 |
| PPL | Linear Fluorescent (High Bay) | Mfg: Chemicals | Lighting | ROB | end use | 310,954 | 13% | 0.00 | 14 | \$7,224 | 91% | 2.07 |
| PPL | Metal Halide (High Bay) | Mfg: Chemicals | Lighting | Early | end use | 310,954 | 62% | 0.00 | 13 | \$213,761 | 38% | 0.41 |
| PPL | Metal Halide (High Bay) | Mfg: Chemicals | Lighting | New | end use | 310,954 | 73% | 0.00 | 13 | \$51,107 | 38% | 1.61 |
| PPL | Metal Halide (High Bay) | Mfg: Chemicals | Lighting | ROB | end use | 310,954 | 73% | 0.00 | 13 | \$38,842 | 38% | 1.97 |
| PPL | Screw Base CFL | Mfg: Chemicals | Lighting | Early | end use | 310,954 | 80% | 0.00 | 7 | \$84,479 | 17% | 0.66 |
| PPL | Screw Base CFL | Mfg: Chemicals | Lighting | New | end use | 310,954 | 73% | 0.00 | 9 | \$69,040 | 18% | 0.90 |
| PPL | Screw Base CFL | Mfg: Chemicals | Lighting | ROB | end use | 310,954 | 73% | 0.00 | 9 | \$57,786 | 17% | 1.03 |
| PPL | Screw Base LED | Mfg: Chemicals | Lighting | Early | end use | 310,954 | 76% | 0.00 | 9 | \$51,846 | 21% | 1.21 |
| PPL | Screw Base LED | Mfg: Chemicals | Lighting | New | end use | 310,954 | 77% | 0.00 | 9 | \$28,881 | 20% | 1.84 |
| PPL | Screw Base LED | Mfg: Chemicals | Lighting | ROB | end use | 310,954 | 77% | 0.00 | 9 | \$22,928 | 21% | 2.12 |
| PPL | T8 High Performance Linear Florescent | Mfg: Chemicals | Lighting | Early | end use | 310,954 | 36% | 0.00 | 14 | \$29,756 | 71% | 1.52 |
| PPL | T8 High Performance Linear Florescent | Mfg: Chemicals | Lighting | New | end use | 310,954 | 26% | 0.00 | 14 | \$10,646 | 76% | 2.56 |
| PPL | T8 High Performance Linear Florescent | Mfg: Chemicals | Lighting | ROB | end use | 310,954 | 26% | 0.00 | 14 | \$8,092 | 76% | 3.03 |
| PPL | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Chemicals | Motors | Early | end use | 419,472 | 0.9% | 0.54 | 15 | \$6,408 | 81% | 0.35 |
| PPL | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Chemicals | Motors | New | end use | 419,472 | 0.9% | 0.54 | 15 | \$6,408 | 81% | 0.36 |
| PPL | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Chemicals | Motors | ROB | end use | 419,472 | 0.9% | 0.54 | 15 | \$6,408 | 81% | 0.36 |
| PPL | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Chemicals | Motors | Early | end use | 419,472 | 0.8% | 0.45 | 15 | \$3,892 | 73% | 0.47 |
| PPL | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Chemicals | Motors | New | end use | 419,472 | 0.7% | 0.45 | 15 | \$3,892 | 73% | 0.47 |
| PPL | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Chemicals | Motors | ROB | end use | 419,472 | 0.8% | 0.45 | 15 | \$3,892 | 73% | 0.48 |
| PPL | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Chemicals | Motors | Early | end use | 419,472 | 0.5% | 0.27 | 15 | \$1,492 | 81% | 0.72 |
| PPL | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Chemicals | Motors | New | end use | 419,472 | 0.5% | 0.27 | 15 | \$1,492 | 81% | 0.73 |
| PPL | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Chemicals | Motors | ROB | end use | 419,472 | 0.5% | 0.27 | 15 | \$1,492 | 81% | 0.73 |
| PPL | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Chemicals | Motors | Early | end use | 419,472 | 0.4% | 0.23 | 15 | \$492 | 73% | 1.67 |
| PPL | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Chemicals | Motors | New | end use | 419,472 | 0.4% | 0.23 | 15 | \$492 | 73% | 1.69 |
| PPL | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Chemicals | Motors | ROB | end use | 419,472 | 0.4% | 0.23 | 15 | \$492 | 73% | 1.69 |
| PPL | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Chemicals | Motors | Early | end use | 419,472 | 0.9% | 0.55 | 15 | \$738 | 47% | 2.39 |
| PPL | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Chemicals | Motors | New | end use | 419,472 | 0.9% | 0.55 | 15 | \$738 | 47% | 2.36 |
| PPL | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Chemicals | Motors | ROB | end use | 419,472 | 0.9% | 0.55 | 15 | \$738 | 47% | 2.39 |
| PPL | Facility Energy Management | Mfg: Chemicals | Motors | Existing | end use | 419,472 | 1.9% | 1.10 | 2 | \$162 | 77% | 1.10 |
| PPL | Facility Energy Management | Mfg: Chemicals | Motors | New | end use | 419,472 | 1.9% | 1.10 | 2 | \$162 | 77% | 1.10 |
| PPL | HE Motors | Mfg: Chemicals | Motors | Early | end use | 419,472 | 2.0% | 1.23 | 15 | \$2,497 | 38% | 1.71 |
| PPL | HE Motors | Mfg: Chemicals | Motors | New | end use | 419,472 | 2.0% | 1.23 | 15 | \$2,497 | 38% | 1.71 |
| PPL | HE Motors | Mfg: Chemicals | Motors | ROB | end use | 419,472 | 2.0% | 1.23 | 15 | \$2,497 | 38% | 1.71 |
| PPL | High-Efficiency Ventilation System | Mfg: Chemicals | Motors | Early | end use | 419,472 | 5.7% | 3.39 | 10 | \$26,214 | 73% | 0.37 |
| PPL | High-Efficiency Ventilation System | Mfg: Chemicals | Motors | New | end use | 419,472 | 5.7% | 3.39 | 10 | \$26,214 | 73% | 0.37 |
| PPL | High-Efficiency Ventilation System | Mfg: Chemicals | Motors | ROB | end use | 419,472 | 5.7% | 3.39 | 10 | \$26,214 | 73% | 0.37 |
| PPL | Improved Controls - Motors | Mfg: Chemicals | Motors | Existing | end use | 419,472 | 4.0% | 2.37 | 10 | \$1,823 | 73% | 2.33 |
| PPL | Improved Controls - Motors | Mfg: Chemicals | Motors | New | end use | 419,472 | 4.0% | 2.37 | 10 | \$1,823 | 73% | 2.33 |
| PPL | Motor Management Plan | Mfg: Chemicals | Motors | Existing | end use | 419,472 | 2.9% | 1.73 | 10 | \$855 | 73% | 2.98 |
| PPL | Motor Management Plan | Mfg: Chemicals | Motors | New | end use | 419,472 | 2.9% | 1.73 | 10 | \$855 | 73% | 2.99 |
| PPL | Motors Other | Mfg: Chemicals | Motors | Existing | end use | 419,472 | 1.4% | 0.84 | 15 | \$106 | 83% | 6.81 |
| PPL | Motors Other | Mfg: Chemicals | Motors | New | end use | 419,472 | 1.4% | 0.84 | 15 | \$106 | 83% | 6.80 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|----------------|------------------------|----------|---------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Motors: Rewind 101-200 HP | Mfg: Chemicals | Motors | Existing | end use | 419,472 | 0.6% | 0.33 | 10 | \$530 | 27% | 1.42 |
| PPL | Motors: Rewind 101-200 HP | Mfg: Chemicals | Motors | New | end use | 419,472 | 0.6% | 0.33 | 10 | \$530 | 27% | 1.43 |
| PPL | Motors: Rewind 201-500 HP | Mfg: Chemicals | Motors | Existing | end use | 419,472 | 0.6% | 0.33 | 8 | \$333 | 27% | 1.64 |
| PPL | Motors: Rewind 201-500 HP | Mfg: Chemicals | Motors | New | end use | 419,472 | 0.5% | 0.33 | 8 | \$333 | 27% | 1.62 |
| PPL | Motors: Rewind 20-50 HP | Mfg: Chemicals | Motors | Existing | end use | 419,472 | 1.0% | 0.62 | 11 | \$1,557 | 42% | 1.08 |
| PPL | Motors: Rewind 20-50 HP | Mfg: Chemicals | Motors | New | end use | 419,472 | 1.0% | 0.62 | 11 | \$1,557 | 42% | 1.09 |
| PPL | Motors: Rewind 500+ HP | Mfg: Chemicals | Motors | Existing | end use | 419,472 | 0.6% | 0.33 | 8 | \$238 | 11% | 2.02 |
| PPL | Motors: Rewind 500+ HP | Mfg: Chemicals | Motors | New | end use | 419,472 | 0.6% | 0.33 | 8 | \$238 | 11% | 2.05 |
| PPL | Motors: Rewind 51-100 HP | Mfg: Chemicals | Motors | Existing | end use | 419,472 | 0.6% | 0.36 | 9 | \$769 | 42% | 1.02 |
| PPL | Motors: Rewind 51-100 HP | Mfg: Chemicals | Motors | New | end use | 419,472 | 0.6% | 0.36 | 9 | \$769 | 42% | 1.02 |
| PPL | Switch from Belt drive to Direct Drive | Mfg: Chemicals | Motors | Early | end use | 419,472 | 7.5% | 4.50 | 12 | \$6,730 | 30% | 1.80 |
| PPL | Switch from Belt drive to Direct Drive | Mfg: Chemicals | Motors | New | end use | 419,472 | 7.5% | 4.50 | 12 | \$6,730 | 30% | 1.79 |
| PPL | Switch from Belt drive to Direct Drive | Mfg: Chemicals | Motors | ROB | end use | 419,472 | 7.5% | 4.50 | 12 | \$6,730 | 30% | 1.79 |
| PPL | Synchronous Belts | Mfg: Chemicals | Motors | Early | end use | 419,472 | 1.2% | 0.70 | 10 | \$618 | 30% | 2.20 |
| PPL | Synchronous Belts | Mfg: Chemicals | Motors | New | end use | 419,472 | 1.2% | 0.70 | 10 | \$618 | 30% | 2.20 |
| PPL | Synchronous Belts | Mfg: Chemicals | Motors | ROB | end use | 419,472 | 1.2% | 0.70 | 10 | \$618 | 30% | 2.20 |
| PPL | Bldg Improvements | Mfg: Chemicals | Other | Existing | end use | 142,840 | 16% | 2.75 | 15 | \$3,114 | 72% | 2.86 |
| PPL | Bldg Improvements | Mfg: Chemicals | Other | New | end use | 142,840 | 16% | 2.75 | 15 | \$3,114 | 72% | 2.86 |
| PPL | Energy Project Management | Mfg: Chemicals | Other | Existing | end use | 142,840 | 29% | 4.93 | 11 | \$5,099 | 63% | 2.30 |
| PPL | Energy Project Management | Mfg: Chemicals | Other | New | end use | 142,840 | 29% | 4.93 | 11 | \$5,099 | 63% | 2.30 |
| PPL | Facility Energy Management | Mfg: Chemicals | Other | Existing | end use | 142,840 | 1.9% | 0.31 | 2 | \$55 | 76% | 1.07 |
| PPL | Facility Energy Management | Mfg: Chemicals | Other | New | end use | 142,840 | 1.9% | 0.31 | 2 | \$55 | 76% | 1.07 |
| PPL | Integrated Plant Energy Management | Mfg: Chemicals | Other | Existing | end use | 142,840 | 50% | 8.50 | 11 | \$14,079 | 48% | 1.67 |
| PPL | Integrated Plant Energy Management | Mfg: Chemicals | Other | New | end use | 142,840 | 50% | 8.50 | 11 | \$14,079 | 48% | 1.67 |
| PPL | Plant Energy Management | Mfg: Chemicals | Other | Existing | end use | 142,840 | 12% | 2.04 | 10 | \$359 | 55% | 4.47 |
| PPL | Plant Energy Management | Mfg: Chemicals | Other | New | end use | 142,840 | 12% | 2.04 | 10 | \$359 | 55% | 4.47 |
| PPL | Transformers | Mfg: Chemicals | Other | Early | end use | 142,840 | 1.6% | 0.27 | 15 | \$456 | 34% | 2.18 |
| PPL | Transformers | Mfg: Chemicals | Other | New | end use | 142,840 | 1.6% | 0.27 | 15 | \$456 | 34% | 2.18 |
| PPL | Transformers | Mfg: Chemicals | Other | ROB | end use | 142,840 | 1.6% | 0.27 | 15 | \$456 | 34% | 2.18 |
| PPL | Air Compressor Demand Reduction | Mfg: Chemicals | Process Air Compressor | Existing | end use | 5,049 | 26% | 0.17 | 10 | \$76 | 52% | 3.22 |
| PPL | Air Compressor Demand Reduction | Mfg: Chemicals | Process Air Compressor | New | end use | 5,049 | 26% | 0.17 | 10 | \$76 | 52% | 3.22 |
| PPL | Facility Energy Management | Mfg: Chemicals | Process Air Compressor | Existing | end use | 5,049 | 1.9% | 0.01 | 2 | \$1.9 | 66% | 1.08 |
| PPL | Facility Energy Management | Mfg: Chemicals | Process Air Compressor | New | end use | 5,049 | 1.9% | 0.01 | 2 | \$1.9 | 66% | 1.08 |
| PPL | HE Compressor motors | Mfg: Chemicals | Process Air Compressor | Early | end use | 5,049 | 1.1% | 0.01 | 15 | \$19 | 73% | 1.44 |
| PPL | HE Compressor motors | Mfg: Chemicals | Process Air Compressor | New | end use | 5,049 | 1.1% | 0.01 | 15 | \$19 | 73% | 1.45 |
| PPL | HE Compressor motors | Mfg: Chemicals | Process Air Compressor | ROB | end use | 5,049 | 1.1% | 0.01 | 15 | \$19 | 73% | 1.45 |
| PPL | Improved Controls - Air Compressor | Mfg: Chemicals | Process Air Compressor | Existing | end use | 5,049 | 41% | 0.27 | 10 | \$90 | 25% | 3.62 |
| PPL | Improved Controls - Air Compressor | Mfg: Chemicals | Process Air Compressor | New | end use | 5,049 | 41% | 0.27 | 10 | \$90 | 25% | 3.62 |
| PPL | Low Pressure-drop Filters | Mfg: Chemicals | Process Air Compressor | Existing | end use | 5,049 | 1.8% | 0.01 | 10 | \$57 | 61% | 0.60 |
| PPL | Low Pressure-drop Filters | Mfg: Chemicals | Process Air Compressor | New | end use | 5,049 | 1.8% | 0.01 | 10 | \$57 | 61% | 0.60 |
| PPL | Outside Air Intake | Mfg: Chemicals | Process Air Compressor | Existing | end use | 5,049 | 1.4% | 0.01 | 10 | \$33 | 48% | 0.78 |
| PPL | Outside Air Intake | Mfg: Chemicals | Process Air Compressor | New | end use | 5,049 | 1.4% | 0.01 | 10 | \$33 | 48% | 0.78 |
| PPL | Receiver Capacity Addition | Mfg: Chemicals | Process Air Compressor | Existing | end use | 5,049 | 5.9% | 0.04 | 10 | \$94 | 36% | 1.08 |
| PPL | Receiver Capacity Addition | Mfg: Chemicals | Process Air Compressor | New | end use | 5,049 | 6.0% | 0.04 | 10 | \$94 | 36% | 1.08 |
| PPL | Refrigerated Cycling Dryers | Mfg: Chemicals | Process Air Compressor | Early | end use | 5,049 | 1.7% | 0.01 | 10 | \$12 | 21% | 2.00 |
| PPL | Refrigerated Cycling Dryers | Mfg: Chemicals | Process Air Compressor | New | end use | 5,049 | 1.7% | 0.01 | 10 | \$12 | 21% | 1.99 |
| PPL | Refrigerated Cycling Dryers | Mfg: Chemicals | Process Air Compressor | ROB | end use | 5,049 | 1.7% | 0.01 | 10 | \$12 | 21% | 1.99 |
| PPL | VFD Controlled Compressor | Mfg: Chemicals | Process Air Compressor | Early | end use | 5,049 | 24% | 0.16 | 10 | \$497 | 28% | 0.85 |
| PPL | VFD Controlled Compressor | Mfg: Chemicals | Process Air Compressor | New | end use | 5,049 | 24% | 0.16 | 10 | \$497 | 28% | 0.85 |
| PPL | VFD Controlled Compressor | Mfg: Chemicals | Process Air Compressor | ROB | end use | 5,049 | 24% | 0.16 | 10 | \$497 | 28% | 0.85 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---------------------------------------|----------------|------------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Zero Loss Condensate Drain | Mfg: Chemicals | Process Air Compressor | Early | end use | 5,049 | 1.9% | 0.01 | 10 | \$29 | 8% | 1.09 |
| PPL | Zero Loss Condensate Drain | Mfg: Chemicals | Process Air Compressor | New | end use | 5,049 | 1.8% | 0.01 | 10 | \$29 | 8% | 1.09 |
| PPL | Zero Loss Condensate Drain | Mfg: Chemicals | Process Air Compressor | ROB | end use | 5,049 | 1.9% | 0.01 | 10 | \$29 | 8% | 1.09 |
| PPL | Clean Room: Change Filter Strategy | Mfg: Chemicals | Process Cooling | Existing | end use | 413,513 | 40% | 34.48 | 1 | \$1,073 | 13% | 0.78 |
| PPL | Clean Room: Change Filter Strategy | Mfg: Chemicals | Process Cooling | New | end use | 413,513 | 40% | 34.48 | 1 | \$1,073 | 13% | 0.78 |
| PPL | Clean Room: Chiller Optimize | Mfg: Chemicals | Process Cooling | Existing | end use | 413,513 | 15% | 12.78 | 10 | \$4,991 | 21% | 2.99 |
| PPL | Clean Room: Chiller Optimize | Mfg: Chemicals | Process Cooling | New | end use | 413,513 | 15% | 12.78 | 10 | \$4,991 | 21% | 2.99 |
| PPL | Clean Room: Clean Room HVAC | Mfg: Chemicals | Process Cooling | Existing | end use | 413,513 | 9.0% | 7.76 | 15 | \$6,025 | 31% | 2.78 |
| PPL | Clean Room: Clean Room HVAC | Mfg: Chemicals | Process Cooling | New | end use | 413,513 | 9.0% | 7.76 | 15 | \$6,025 | 31% | 2.78 |
| PPL | Cooling Tower Optimization | Mfg: Chemicals | Process Cooling | Existing | building | 413,513 | 20% | 29.60 | 10 | \$2,536 | 15% | 5.25 |
| PPL | Equipment: Chillers | Mfg: Chemicals | Process Cooling | Early | end use | 413,513 | 18% | 15.41 | 15 | \$19,407 | 39% | 1.94 |
| PPL | Equipment: Chillers | Mfg: Chemicals | Process Cooling | New | end use | 413,513 | 18% | 15.41 | 15 | \$19,407 | 39% | 1.94 |
| PPL | Equipment: Chillers | Mfg: Chemicals | Process Cooling | ROB | end use | 413,513 | 18% | 15.41 | 15 | \$19,407 | 39% | 1.94 |
| PPL | Facility Energy Management | Mfg: Chemicals | Process Cooling | Existing | end use | 413,513 | 1.9% | 1.59 | 2 | \$159 | 50% | 1.19 |
| PPL | Facility Energy Management | Mfg: Chemicals | Process Cooling | New | end use | 413,513 | 1.9% | 1.59 | 2 | \$159 | 50% | 1.19 |
| PPL | Improved Controls - Process Cooling | Mfg: Chemicals | Process Cooling | Existing | end use | 413,513 | 6.0% | 5.17 | 10 | \$21,833 | 47% | 0.48 |
| PPL | Improved Controls - Process Cooling | Mfg: Chemicals | Process Cooling | New | end use | 413,513 | 6.0% | 5.17 | 10 | \$21,833 | 47% | 0.48 |
| PPL | VFD on Cooling Tower Fan | Mfg: Chemicals | Process Cooling | Early | motor | 413,513 | 21% | 26.02 | 15 | \$19,053 | 20% | 2.46 |
| PPL | VFD on Cooling Tower Fan | Mfg: Chemicals | Process Cooling | New | motor | 413,513 | 22% | 26.02 | 15 | \$19,416 | 20% | 2.44 |
| PPL | VFD on Cooling Tower Fan | Mfg: Chemicals | Process Cooling | ROB | motor | 413,513 | 22% | 26.02 | 15 | \$19,416 | 20% | 2.44 |
| PPL | Improved Controls - Process Heating | Mfg: Chemicals | Process Heating | Existing | end use | 314,209 | 17% | 7.38 | 10 | \$3,610 | 77% | 3.04 |
| PPL | Improved Controls - Process Heating | Mfg: Chemicals | Process Heating | New | end use | 314,209 | 17% | 7.38 | 10 | \$3,610 | 77% | 3.04 |
| PPL | Process Heat O&M | Mfg: Chemicals | Process Heating | Existing | end use | 314,209 | 16% | 6.98 | 2 | \$2,182 | 77% | 0.88 |
| PPL | Process Heat O&M | Mfg: Chemicals | Process Heating | New | end use | 314,209 | 16% | 6.98 | 2 | \$2,182 | 77% | 0.88 |
| PPL | Facility Energy Management | Mfg: Chemicals | Process Other | Existing | end use | 1,274,701 | 1.8% | 3.29 | 2 | \$491 | 73% | 1.09 |
| PPL | Facility Energy Management | Mfg: Chemicals | Process Other | New | end use | 1,274,701 | 1.9% | 3.29 | 2 | \$491 | 73% | 1.09 |
| PPL | Adjustable speed drive on compressors | Mfg: Chemicals | Process Refrigeration | Early | end use | 212,418 | 12% | 3.63 | 10 | \$3,929 | 77% | 1.97 |
| PPL | Adjustable speed drive on compressors | Mfg: Chemicals | Process Refrigeration | New | end use | 212,418 | 12% | 3.63 | 10 | \$3,929 | 77% | 1.97 |
| PPL | Adjustable speed drive on compressors | Mfg: Chemicals | Process Refrigeration | ROB | end use | 212,418 | 12% | 3.63 | 10 | \$3,929 | 77% | 1.97 |
| PPL | Cooling Tower Optimization | Mfg: Chemicals | Process Refrigeration | Existing | building | 212,418 | 20% | 15.21 | 10 | \$1,303 | 15% | 5.25 |
| PPL | Optimization of operating parameters | Mfg: Chemicals | Process Refrigeration | Existing | end use | 212,418 | 13% | 4.07 | 3 | \$1,715 | 69% | 1.11 |
| PPL | Optimization of operating parameters | Mfg: Chemicals | Process Refrigeration | New | end use | 212,418 | 13% | 4.07 | 3 | \$1,715 | 69% | 1.11 |
| PPL | Synchronous Belts | Mfg: Chemicals | Process Refrigeration | Early | end use | 212,418 | 1.2% | 0.36 | 10 | \$313 | 77% | 2.29 |
| PPL | Synchronous Belts | Mfg: Chemicals | Process Refrigeration | New | end use | 212,418 | 1.2% | 0.36 | 10 | \$313 | 77% | 2.29 |
| PPL | Synchronous Belts | Mfg: Chemicals | Process Refrigeration | ROB | end use | 212,418 | 1.2% | 0.36 | 10 | \$313 | 77% | 2.29 |
| PPL | VFD on Cooling Tower Fan | Mfg: Chemicals | Process Refrigeration | Early | motor | 212,418 | 21% | 13.37 | 15 | \$9,787 | 20% | 2.46 |
| PPL | VFD on Cooling Tower Fan | Mfg: Chemicals | Process Refrigeration | New | motor | 212,418 | 22% | 13.37 | 15 | \$9,974 | 20% | 2.44 |
| PPL | VFD on Cooling Tower Fan | Mfg: Chemicals | Process Refrigeration | ROB | motor | 212,418 | 22% | 13.37 | 15 | \$9,974 | 20% | 2.44 |
| PPL | Facility Energy Management | Mfg: Chemicals | Pumps | Existing | end use | 2,351,371 | 1.9% | 5.63 | 2 | \$906 | 69% | 1.08 |
| PPL | Facility Energy Management | Mfg: Chemicals | Pumps | New | end use | 2,351,371 | 1.9% | 5.63 | 2 | \$906 | 69% | 1.08 |
| PPL | HE Motors | Mfg: Chemicals | Pumps | Early | end use | 2,351,371 | 2.0% | 6.26 | 15 | \$13,998 | 73% | 1.69 |
| PPL | HE Motors | Mfg: Chemicals | Pumps | New | end use | 2,351,371 | 2.0% | 6.26 | 15 | \$13,998 | 73% | 1.69 |
| PPL | HE Motors | Mfg: Chemicals | Pumps | ROB | end use | 2,351,371 | 2.0% | 6.26 | 15 | \$13,998 | 73% | 1.69 |
| PPL | Motor rewinds | Mfg: Chemicals | Pumps | Existing | end use | 2,351,371 | 0.6% | 1.82 | 9 | \$3,344 | 11% | 1.23 |
| PPL | Motor rewinds | Mfg: Chemicals | Pumps | New | end use | 2,351,371 | 0.6% | 1.82 | 9 | \$3,344 | 11% | 1.22 |
| PPL | Pump Equipment Upgrade | Mfg: Chemicals | Pumps | Early | end use | 2,351,371 | 20% | 61.19 | 12 | \$58,784 | 81% | 2.57 |
| PPL | Pump Equipment Upgrade | Mfg: Chemicals | Pumps | New | end use | 2,351,371 | 20% | 61.19 | 12 | \$58,784 | 81% | 2.57 |
| PPL | Pump Equipment Upgrade | Mfg: Chemicals | Pumps | ROB | end use | 2,351,371 | 20% | 61.19 | 12 | \$58,784 | 81% | 2.57 |
| PPL | Pump System Optimization | Mfg: Chemicals | Pumps | Existing | end use | 2,351,371 | 8.7% | 26.60 | 12 | \$43,052 | 38% | 1.74 |
| PPL | Pump System Optimization | Mfg: Chemicals | Pumps | New | end use | 2,351,371 | 8.7% | 26.60 | 12 | \$43,052 | 38% | 1.74 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|------------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Synchronous Belts | Mfg: Chemicals | Pumps | Early | end use | 2,351,371 | 1.2% | 3.56 | 10 | \$3,465 | 61% | 2.16 |
| PPL | Synchronous Belts | Mfg: Chemicals | Pumps | New | end use | 2,351,371 | 1.2% | 3.56 | 10 | \$3,465 | 61% | 2.16 |
| PPL | Synchronous Belts | Mfg: Chemicals | Pumps | ROB | end use | 2,351,371 | 1.2% | 3.56 | 10 | \$3,465 | 61% | 2.16 |
| PPL | Circulating Fans | Mfg: Comp & Elec | Fans | Early | end use | 67,426 | 5.0% | 0.40 | 10 | \$410 | 68% | 2.28 |
| PPL | Circulating Fans | Mfg: Comp & Elec | Fans | New | end use | 67,426 | 5.0% | 0.40 | 10 | \$410 | 68% | 2.28 |
| PPL | Circulating Fans | Mfg: Comp & Elec | Fans | ROB | end use | 67,426 | 5.0% | 0.40 | 10 | \$410 | 68% | 2.28 |
| PPL | Facility Energy Management | Mfg: Comp & Elec | Fans | Existing | end use | 67,426 | 1.9% | 0.15 | 2 | \$26 | 77% | 1.07 |
| PPL | Facility Energy Management | Mfg: Comp & Elec | Fans | New | end use | 67,426 | 1.9% | 0.15 | 2 | \$26 | 77% | 1.07 |
| PPL | HE Motors | Mfg: Comp & Elec | Fans | Early | end use | 67,426 | 2.0% | 0.16 | 15 | \$401 | 77% | 1.73 |
| PPL | HE Motors | Mfg: Comp & Elec | Fans | New | end use | 67,426 | 2.0% | 0.16 | 15 | \$401 | 77% | 1.73 |
| PPL | HE Motors | Mfg: Comp & Elec | Fans | ROB | end use | 67,426 | 2.0% | 0.16 | 15 | \$401 | 77% | 1.73 |
| PPL | Improved Controls - Fans | Mfg: Comp & Elec | Fans | Existing | end use | 67,426 | 7.1% | 0.57 | 10 | \$261 | 88% | 3.27 |
| PPL | Improved Controls - Fans | Mfg: Comp & Elec | Fans | New | end use | 67,426 | 7.1% | 0.57 | 10 | \$261 | 88% | 3.27 |
| PPL | Properly Sized Fans | Mfg: Comp & Elec | Fans | Early | end use | 67,426 | 13% | 1.06 | 10 | \$1,381 | 41% | 1.93 |
| PPL | Properly Sized Fans | Mfg: Comp & Elec | Fans | New | end use | 67,426 | 13% | 1.06 | 10 | \$1,381 | 41% | 1.93 |
| PPL | Properly Sized Fans | Mfg: Comp & Elec | Fans | ROB | end use | 67,426 | 13% | 1.06 | 10 | \$1,381 | 41% | 1.93 |
| PPL | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 262,383 | 9.2% | 6.24 | 15 | \$47,796 | 28% | 0.34 |
| PPL | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Comp & Elec | HVAC | New | unit (ton) | 262,383 | 4.1% | 2.80 | 15 | \$11,580 | 28% | 0.61 |
| PPL | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 262,383 | 4.1% | 2.80 | 15 | \$11,580 | 28% | 0.61 |
| PPL | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 262,383 | 12% | 8.44 | 15 | \$56,347 | 28% | 0.38 |
| PPL | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Comp & Elec | HVAC | New | unit (ton) | 262,383 | 7.7% | 5.23 | 15 | \$24,390 | 28% | 0.54 |
| PPL | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 262,383 | 7.7% | 5.23 | 15 | \$24,390 | 28% | 0.54 |
| PPL | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 262,383 | 15% | 10.37 | 15 | \$64,897 | 29% | 0.41 |
| PPL | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Comp & Elec | HVAC | New | unit (ton) | 262,383 | 11% | 7.36 | 15 | \$37,200 | 29% | 0.50 |
| PPL | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 262,383 | 11% | 7.36 | 15 | \$37,200 | 29% | 0.50 |
| PPL | >760k min 10.2 EER Air Conditioner | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 262,383 | 2.1% | 1.45 | 15 | \$83,234 | 35% | 0.05 |
| PPL | >760k min 10.2 EER Air Conditioner | Mfg: Comp & Elec | HVAC | New | unit (ton) | 262,383 | 2.8% | 1.92 | 15 | \$7,523 | 35% | 0.64 |
| PPL | >760k min 10.2 EER Air Conditioner | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 262,383 | 2.8% | 1.92 | 15 | \$7,523 | 35% | 0.64 |
| PPL | 135-240k min 12 EER Air Conditioner | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 262,383 | 10% | 7.12 | 15 | \$90,129 | 35% | 0.21 |
| PPL | 135-240k min 12 EER Air Conditioner | Mfg: Comp & Elec | HVAC | New | unit (ton) | 262,383 | 5.8% | 3.93 | 15 | \$10,642 | 35% | 0.90 |
| PPL | 135-240k min 12 EER Air Conditioner | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 262,383 | 5.8% | 3.93 | 15 | \$10,642 | 35% | 0.90 |
| PPL | 240k-760k min 11 EER Air Conditioner | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 262,383 | 5.2% | 3.55 | 15 | \$83,286 | 35% | 0.11 |
| PPL | 240k-760k min 11 EER Air Conditioner | Mfg: Comp & Elec | HVAC | New | unit (ton) | 262,383 | 5.3% | 3.63 | 15 | \$8,923 | 35% | 0.98 |
| PPL | 240k-760k min 11 EER Air Conditioner | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 262,383 | 5.3% | 3.63 | 15 | \$8,923 | 35% | 0.98 |
| PPL | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 262,383 | 9.7% | 6.60 | 15 | \$92,285 | 35% | 0.19 |
| PPL | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Comp & Elec | HVAC | New | unit (ton) | 262,383 | 3.8% | 2.62 | 15 | \$13,167 | 35% | 0.50 |
| PPL | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 262,383 | 3.8% | 2.62 | 15 | \$13,167 | 35% | 0.50 |
| PPL | Ceiling Insualtions (Going upto R 20) | Mfg: Comp & Elec | HVAC | Existing | building | 262,383 | 5.9% | 3.90 | 15 | \$794,979 | 71% | 0.01 |
| PPL | Ceiling Insualtions (Going upto R 20) | Mfg: Comp & Elec | HVAC | New | building | 262,383 | 3.7% | 2.44 | 15 | \$755,650 | 94% | 0.01 |
| PPL | Chiller Tuneup/Diagnostics | Mfg: Comp & Elec | HVAC | Existing | building | 262,383 | 8.0% | 7.70 | 10 | \$669,982 | 59% | 0.02 |
| PPL | Chiller Tuneup/Diagnostics | Mfg: Comp & Elec | HVAC | New | building | 262,383 | 8.0% | 7.71 | 10 | \$669,982 | 59% | 0.02 |
| PPL | Cooling Tower Optimization | Mfg: Comp & Elec | HVAC | Existing | building | 262,383 | 20% | 18.78 | 10 | \$1,609 | 12% | 5.25 |
| PPL | Duct Insulation, Add R8 | Mfg: Comp & Elec | HVAC | Existing | building | 262,383 | 1.5% | 0.84 | 15 | \$2,084 | 18% | 1.10 |
| PPL | Duct Insulation, Add R8 | Mfg: Comp & Elec | HVAC | New | building | 262,383 | 1.5% | 0.84 | 15 | \$2,084 | 9% | 1.10 |
| PPL | Ductless Heat Pump | Mfg: Comp & Elec | HVAC | Early | heat pump | 262,383 | 0.8% | 0.49 | 15 | \$20,839 | 83% | 0.07 |
| PPL | Ductless Heat Pump | Mfg: Comp & Elec | HVAC | New | heat pump | 262,383 | 0.4% | 0.26 | 15 | \$6,052 | 83% | 0.13 |
| PPL | Ductless Heat Pump | Mfg: Comp & Elec | HVAC | ROB | heat pump | 262,383 | 0.4% | 0.26 | 15 | \$6,052 | 83% | 0.13 |
| PPL | DX Coil Cleaning | Mfg: Comp & Elec | HVAC | Existing | building | 262,383 | 13% | 12.04 | 1 | \$2,515 | 73% | 0.48 |
| PPL | DX Coil Cleaning | Mfg: Comp & Elec | HVAC | New | building | 262,383 | 13% | 12.03 | 1 | \$2,515 | 73% | 0.48 |
| PPL | Efficient Unit Heating System | Mfg: Comp & Elec | HVAC | Early | heater | 262,383 | 6.9% | 0.15 | 15 | \$14,134 | 83% | 0.62 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|------------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Efficient Unit Heating System | Mfg: Comp & Elec | HVAC | New | heater | 262,383 | 4.0% | 0.09 | 15 | \$9,641 | 83% | 0.53 |
| PPL | Efficient Unit Heating System | Mfg: Comp & Elec | HVAC | ROB | heater | 262,383 | 4.0% | 0.09 | 15 | \$9,641 | 83% | 0.53 |
| PPL | Ground Source Heat Pump (Closed Loop) | Mfg: Comp & Elec | HVAC | Early | heat pump | 262,383 | 1.3% | 0.77 | 15 | \$43,271 | 19% | 0.05 |
| PPL | Ground Source Heat Pump (Closed Loop) | Mfg: Comp & Elec | HVAC | New | heat pump | 262,383 | 1.0% | 0.60 | 15 | \$17,085 | 19% | 0.10 |
| PPL | Ground Source Heat Pump (Closed Loop) | Mfg: Comp & Elec | HVAC | ROB | heat pump | 262,383 | 1.0% | 0.60 | 15 | \$17,085 | 19% | 0.10 |
| PPL | Ground Source Heat Pump (Open Loop) | Mfg: Comp & Elec | HVAC | Early | heat pump | 262,383 | 1.3% | 0.77 | 15 | \$27,713 | 19% | 0.08 |
| PPL | Ground Source Heat Pump (Open Loop) | Mfg: Comp & Elec | HVAC | New | heat pump | 262,383 | 1.0% | 0.60 | 15 | \$588 | 19% | 2.32 |
| PPL | Ground Source Heat Pump (Open Loop) | Mfg: Comp & Elec | HVAC | ROB | heat pump | 262,383 | 1.0% | 0.60 | 15 | \$588 | 19% | 2.32 |
| PPL | HE Air Cooled Chiller, 100 Tons | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 262,383 | 1.5% | 0.87 | 15 | \$308,472 | 89% | 0.01 |
| PPL | HE Air Cooled Chiller, 100 Tons | Mfg: Comp & Elec | HVAC | New | unit (ton) | 262,383 | 0.4% | 0.25 | 15 | \$44,939 | 89% | 0.02 |
| PPL | HE Air Cooled Chiller, 100 Tons | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 262,383 | 0.4% | 0.25 | 15 | \$44,939 | 89% | 0.02 |
| PPL | HE Air Cooled Chiller, 150 Tons | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 262,383 | 1.5% | 0.86 | 15 | \$266,451 | 89% | 0.01 |
| PPL | HE Air Cooled Chiller, 150 Tons | Mfg: Comp & Elec | HVAC | New | unit (ton) | 262,383 | 0.3% | 0.18 | 15 | \$22,069 | 89% | 0.02 |
| PPL | HE Air Cooled Chiller, 150 Tons | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 262,383 | 0.3% | 0.18 | 15 | \$22,069 | 89% | 0.02 |
| PPL | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Comp & Elec | HVAC | Early | heat pump | 262,383 | 1.4% | 0.81 | 12 | \$11,296 | 81% | 0.17 |
| PPL | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Comp & Elec | HVAC | Early | heat pump | 262,383 | 1.1% | 0.67 | 12 | \$8,253 | 81% | 0.20 |
| PPL | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Comp & Elec | HVAC | New | heat pump | 262,383 | 1.0% | 0.60 | 12 | \$5,043 | 81% | 0.29 |
| PPL | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Comp & Elec | HVAC | New | heat pump | 262,383 | 0.8% | 0.45 | 12 | \$1,763 | 81% | 0.58 |
| PPL | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Comp & Elec | HVAC | ROB | heat pump | 262,383 | 1.0% | 0.60 | 12 | \$5,043 | 81% | 0.29 |
| PPL | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Comp & Elec | HVAC | ROB | heat pump | 262,383 | 0.8% | 0.45 | 12 | \$1,763 | 81% | 0.58 |
| PPL | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 262,383 | 1.6% | 0.95 | 15 | \$24,476 | 89% | 0.11 |
| PPL | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Comp & Elec | HVAC | New | unit (ton) | 262,383 | 0.9% | 0.55 | 15 | \$8,140 | 89% | 0.20 |
| PPL | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 262,383 | 0.9% | 0.55 | 15 | \$8,140 | 89% | 0.20 |
| PPL | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 262,383 | 1.4% | 0.84 | 15 | \$23,904 | 89% | 0.10 |
| PPL | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Comp & Elec | HVAC | New | unit (ton) | 262,383 | 1.0% | 0.59 | 15 | \$4,668 | 89% | 0.36 |
| PPL | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 262,383 | 1.4% | 0.84 | 15 | \$4,288 | 89% | 0.55 |
| PPL | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 262,383 | 1.4% | 0.83 | 15 | \$28,292 | 89% | 0.09 |
| PPL | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Comp & Elec | HVAC | New | unit (ton) | 262,383 | 0.9% | 0.53 | 15 | \$11,912 | 89% | 0.13 |
| PPL | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 262,383 | 1.4% | 0.83 | 15 | \$10,781 | 89% | 0.22 |
| PPL | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 262,383 | 1.4% | 0.83 | 15 | \$27,252 | 89% | 0.09 |
| PPL | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Comp & Elec | HVAC | New | unit (ton) | 262,383 | 0.9% | 0.53 | 15 | \$10,354 | 89% | 0.15 |
| PPL | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 262,383 | 1.4% | 0.83 | 15 | \$9,371 | 89% | 0.26 |
| PPL | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 262,383 | 1.8% | 1.07 | 15 | \$29,365 | 89% | 0.11 |
| PPL | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Comp & Elec | HVAC | New | unit (ton) | 262,383 | 0.6% | 0.33 | 15 | \$18,183 | 89% | 0.05 |
| PPL | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 262,383 | 1.8% | 1.07 | 15 | \$14,119 | 89% | 0.22 |
| PPL | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 262,383 | 2.2% | 1.28 | 15 | \$27,010 | 89% | 0.14 |
| PPL | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Comp & Elec | HVAC | New | unit (ton) | 262,383 | 0.8% | 0.46 | 15 | \$10,838 | 89% | 0.13 |
| PPL | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 262,383 | 0.8% | 0.46 | 15 | \$10,838 | 89% | 0.13 |
| PPL | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 262,383 | 2.4% | 1.43 | 15 | \$22,892 | 89% | 0.18 |
| PPL | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Comp & Elec | HVAC | New | unit (ton) | 262,383 | 0.9% | 0.54 | 15 | \$5,760 | 89% | 0.27 |
| PPL | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 262,383 | 2.4% | 1.43 | 15 | \$4,107 | 89% | 0.94 |
| PPL | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 262,383 | 1.8% | 1.08 | 15 | \$22,661 | 89% | 0.14 |
| PPL | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Comp & Elec | HVAC | New | unit (ton) | 262,383 | 0.7% | 0.41 | 15 | \$6,346 | 89% | 0.19 |
| PPL | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 262,383 | 1.8% | 1.08 | 15 | \$5,028 | 89% | 0.60 |
| PPL | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Comp & Elec | HVAC | Existing | building | 262,383 | 2.9% | 1.54 | 5 | \$2,784 | 55% | 0.57 |
| PPL | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Comp & Elec | HVAC | New | building | 262,383 | 0.6% | 0.61 | 5 | \$1,670 | 51% | 0.28 |
| PPL | Improved Controls - HVAC | Mfg: Comp & Elec | HVAC | Existing | end use | 262,383 | 21% | 7.87 | 10 | \$2,759 | 76% | 3.49 |
| PPL | Improved Controls - HVAC | Mfg: Comp & Elec | HVAC | New | end use | 262,383 | 21% | 7.87 | 10 | \$2,759 | 76% | 3.49 |
| PPL | Outside Air Economizer | Mfg: Comp & Elec | HVAC | Existing | building | 262,383 | 1.1% | 0.74 | 10 | \$964,045 | 82% | 0.00 |
| PPL | Outside Air Economizer | Mfg: Comp & Elec | HVAC | New | building | 262,383 | 1.1% | 0.74 | 10 | \$964,045 | 82% | 0.00 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---------------------------------------|------------------|----------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Recommissioning | Mfg: Comp & Elec | HVAC | Existing | end use | 262,383 | 5.0% | 1.88 | 10 | \$360 | 88% | 4.30 |
| PPL | Recommissioning | Mfg: Comp & Elec | HVAC | New | end use | 262,383 | 5.0% | 1.88 | 10 | \$360 | 88% | 4.30 |
| PPL | Room AC (with louvered sides) | Mfg: Comp & Elec | HVAC | Early | unit (ton) | 262,383 | 7.7% | 4.56 | 9 | \$20,565 | 78% | 0.39 |
| PPL | Room AC (with louvered sides) | Mfg: Comp & Elec | HVAC | New | unit (ton) | 262,383 | 2.6% | 1.52 | 9 | \$1,126 | 78% | 1.77 |
| PPL | Room AC (with louvered sides) | Mfg: Comp & Elec | HVAC | ROB | unit (ton) | 262,383 | 2.6% | 1.52 | 9 | \$1,126 | 78% | 1.77 |
| PPL | Variable Refrigerant Flow Heat Pump | Mfg: Comp & Elec | HVAC | New | measure | 262,383 | 0.1% | 0.07 | 13 | \$1,941 | 43% | 0.09 |
| PPL | Variable Refrigerant Flow Heat Pump | Mfg: Comp & Elec | HVAC | ROB | measure | 262,383 | 0.1% | 0.07 | 13 | \$1,941 | 43% | 0.09 |
| PPL | VFD on Cooling Tower Fan | Mfg: Comp & Elec | HVAC | Early | motor | 262,383 | 21% | 16.51 | 15 | \$12,089 | 20% | 2.52 |
| PPL | VFD on Cooling Tower Fan | Mfg: Comp & Elec | HVAC | New | motor | 262,383 | 22% | 16.51 | 15 | \$12,320 | 15% | 2.51 |
| PPL | VFD on Cooling Tower Fan | Mfg: Comp & Elec | HVAC | ROB | motor | 262,383 | 22% | 16.51 | 15 | \$12,320 | 15% | 2.51 |
| PPL | Wall Insualtions (Going upto R 21) | Mfg: Comp & Elec | HVAC | Existing | building | 262,383 | 19% | 12.55 | 15 | \$186,650 | 26% | 0.18 |
| PPL | Wall Insualtions (Going upto R 21) | Mfg: Comp & Elec | HVAC | New | building | 262,383 | 0.6% | 0.40 | 15 | \$143,170 | 94% | 0.01 |
| PPL | Water Source Heat Pump (4 ton) | Mfg: Comp & Elec | HVAC | Early | heat pump | 262,383 | 1.5% | 0.91 | 15 | \$44,809 | 6% | 0.06 |
| PPL | Water Source Heat Pump (4 ton) | Mfg: Comp & Elec | HVAC | New | heat pump | 262,383 | 1.1% | 0.67 | 15 | \$21,839 | 6% | 0.09 |
| PPL | Water Source Heat Pump (4 ton) | Mfg: Comp & Elec | HVAC | ROB | heat pump | 262,383 | 1.1% | 0.67 | 15 | \$21,839 | 6% | 0.09 |
| PPL | Efficient Metal Halide (High Bay) | Mfg: Comp & Elec | Lighting | Early | end use | 107,550 | 42% | 0.00 | 9 | \$16,806 | 53% | 0.76 |
| PPL | Efficient Metal Halide (High Bay) | Mfg: Comp & Elec | Lighting | New | end use | 107,550 | 41% | 0.00 | 13 | \$448,895 | 61% | 0.05 |
| PPL | Efficient Metal Halide (High Bay) | Mfg: Comp & Elec | Lighting | ROB | end use | 107,550 | 41% | 0.00 | 13 | \$343,070 | 61% | 0.06 |
| PPL | Induction (High Bay) | Mfg: Comp & Elec | Lighting | Early | end use | 107,550 | 94% | 0.00 | 13 | \$50,005 | 95% | 0.85 |
| PPL | Induction (High Bay) | Mfg: Comp & Elec | Lighting | New | end use | 107,550 | 94% | 0.00 | 13 | \$46,817 | 95% | 0.90 |
| PPL | Induction (High Bay) | Mfg: Comp & Elec | Lighting | ROB | end use | 107,550 | 94% | 0.00 | 13 | \$35,583 | 95% | 1.14 |
| PPL | LED (High Bay) | Mfg: Comp & Elec | Lighting | Early | end use | 107,550 | 69% | 0.00 | 14 | \$58,863 | 95% | 0.59 |
| PPL | LED (High Bay) | Mfg: Comp & Elec | Lighting | New | end use | 107,550 | 55% | 0.00 | 14 | \$65,337 | 95% | 0.43 |
| PPL | LED (High Bay) | Mfg: Comp & Elec | Lighting | ROB | end use | 107,550 | 59% | 0.00 | 14 | \$43,049 | 95% | 0.68 |
| PPL | Lighting Controls | Mfg: Comp & Elec | Lighting | Existing | end use | 107,550 | 20% | 0.00 | 6 | \$403,194 | 16% | 0.01 |
| PPL | Lighting Controls | Mfg: Comp & Elec | Lighting | New | end use | 107,550 | 12% | 0.00 | 10 | \$536,380 | 11% | 0.01 |
| PPL | Linear Fluorescent (High Bay) | Mfg: Comp & Elec | Lighting | Early | end use | 107,550 | 17% | 0.00 | 14 | \$12,306 | 98% | 0.68 |
| PPL | Linear Fluorescent (High Bay) | Mfg: Comp & Elec | Lighting | New | end use | 107,550 | 13% | 0.00 | 14 | \$3,903 | 91% | 1.44 |
| PPL | Linear Fluorescent (High Bay) | Mfg: Comp & Elec | Lighting | ROB | end use | 107,550 | 13% | 0.00 | 14 | \$2,499 | 91% | 2.07 |
| PPL | Metal Halide (High Bay) | Mfg: Comp & Elec | Lighting | Early | end use | 107,550 | 62% | 0.00 | 13 | \$73,934 | 38% | 0.41 |
| PPL | Metal Halide (High Bay) | Mfg: Comp & Elec | Lighting | New | end use | 107,550 | 73% | 0.00 | 13 | \$17,677 | 38% | 1.61 |
| PPL | Metal Halide (High Bay) | Mfg: Comp & Elec | Lighting | ROB | end use | 107,550 | 73% | 0.00 | 13 | \$13,434 | 38% | 1.97 |
| PPL | Screw Base CFL | Mfg: Comp & Elec | Lighting | Early | end use | 107,550 | 80% | 0.00 | 7 | \$29,219 | 17% | 0.66 |
| PPL | Screw Base CFL | Mfg: Comp & Elec | Lighting | New | end use | 107,550 | 73% | 0.00 | 9 | \$23,879 | 18% | 0.90 |
| PPL | Screw Base CFL | Mfg: Comp & Elec | Lighting | ROB | end use | 107,550 | 73% | 0.00 | 9 | \$19,987 | 17% | 1.03 |
| PPL | Screw Base LED | Mfg: Comp & Elec | Lighting | Early | end use | 107,550 | 76% | 0.00 | 9 | \$17,932 | 21% | 1.21 |
| PPL | Screw Base LED | Mfg: Comp & Elec | Lighting | New | end use | 107,550 | 77% | 0.00 | 9 | \$9,989 | 20% | 1.84 |
| PPL | Screw Base LED | Mfg: Comp & Elec | Lighting | ROB | end use | 107,550 | 77% | 0.00 | 9 | \$7,930 | 21% | 2.12 |
| PPL | T8 High Performance Linear Florescent | Mfg: Comp & Elec | Lighting | Early | end use | 107,550 | 36% | 0.00 | 14 | \$10,292 | 71% | 1.52 |
| PPL | T8 High Performance Linear Florescent | Mfg: Comp & Elec | Lighting | New | end use | 107,550 | 26% | 0.00 | 14 | \$3,682 | 76% | 2.56 |
| PPL | T8 High Performance Linear Florescent | Mfg: Comp & Elec | Lighting | ROB | end use | 107,550 | 26% | 0.00 | 14 | \$2,799 | 76% | 3.03 |
| PPL | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Comp & Elec | Motors | Early | end use | 21,287 | 0.9% | 0.03 | 15 | \$325 | 81% | 0.36 |
| PPL | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Comp & Elec | Motors | New | end use | 21,287 | 0.9% | 0.03 | 15 | \$325 | 81% | 0.35 |
| PPL | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Comp & Elec | Motors | ROB | end use | 21,287 | 0.9% | 0.03 | 15 | \$325 | 81% | 0.36 |
| PPL | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Comp & Elec | Motors | Early | end use | 21,287 | 0.7% | 0.02 | 15 | \$197 | 73% | 0.47 |
| PPL | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Comp & Elec | Motors | New | end use | 21,287 | 0.7% | 0.02 | 15 | \$197 | 73% | 0.47 |
| PPL | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Comp & Elec | Motors | ROB | end use | 21,287 | 0.8% | 0.02 | 15 | \$197 | 73% | 0.48 |
| PPL | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Comp & Elec | Motors | Early | end use | 21,287 | 0.5% | 0.01 | 15 | \$76 | 81% | 0.74 |
| PPL | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Comp & Elec | Motors | New | end use | 21,287 | 0.5% | 0.01 | 15 | \$76 | 81% | 0.74 |
| PPL | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Comp & Elec | Motors | ROB | end use | 21,287 | 0.5% | 0.01 | 15 | \$76 | 81% | 0.72 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|------------------|------------------------|----------|---------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Comp & Elec | Motors | Early | end use | 21,287 | 0.4% | 0.01 | 15 | \$25 | 73% | 1.73 |
| PPL | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Comp & Elec | Motors | New | end use | 21,287 | 0.4% | 0.01 | 15 | \$25 | 73% | 1.72 |
| PPL | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Comp & Elec | Motors | ROB | end use | 21,287 | 0.4% | 0.01 | 15 | \$25 | 73% | 1.72 |
| PPL | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Comp & Elec | Motors | Early | end use | 21,287 | 0.9% | 0.03 | 15 | \$37 | 47% | 2.39 |
| PPL | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Comp & Elec | Motors | New | end use | 21,287 | 0.9% | 0.03 | 15 | \$37 | 47% | 2.36 |
| PPL | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Comp & Elec | Motors | ROB | end use | 21,287 | 0.9% | 0.03 | 15 | \$37 | 47% | 2.38 |
| PPL | Facility Energy Management | Mfg: Comp & Elec | Motors | Existing | end use | 21,287 | 1.9% | 0.06 | 2 | \$8.2 | 77% | 1.10 |
| PPL | Facility Energy Management | Mfg: Comp & Elec | Motors | New | end use | 21,287 | 2.0% | 0.06 | 2 | \$8.2 | 77% | 1.10 |
| PPL | HE Motors | Mfg: Comp & Elec | Motors | Early | end use | 21,287 | 2.0% | 0.06 | 15 | \$127 | 38% | 1.71 |
| PPL | HE Motors | Mfg: Comp & Elec | Motors | New | end use | 21,287 | 2.0% | 0.06 | 15 | \$127 | 38% | 1.71 |
| PPL | HE Motors | Mfg: Comp & Elec | Motors | ROB | end use | 21,287 | 2.0% | 0.06 | 15 | \$127 | 38% | 1.71 |
| PPL | High-Efficiency Ventilation System | Mfg: Comp & Elec | Motors | Early | end use | 21,287 | 5.7% | 0.17 | 10 | \$1,330 | 73% | 0.37 |
| PPL | High-Efficiency Ventilation System | Mfg: Comp & Elec | Motors | New | end use | 21,287 | 5.7% | 0.17 | 10 | \$1,330 | 73% | 0.37 |
| PPL | High-Efficiency Ventilation System | Mfg: Comp & Elec | Motors | ROB | end use | 21,287 | 5.7% | 0.17 | 10 | \$1,330 | 73% | 0.37 |
| PPL | Improved Controls - Motors | Mfg: Comp & Elec | Motors | Existing | end use | 21,287 | 4.0% | 0.12 | 10 | \$93 | 73% | 2.33 |
| PPL | Improved Controls - Motors | Mfg: Comp & Elec | Motors | New | end use | 21,287 | 4.0% | 0.12 | 10 | \$93 | 73% | 2.33 |
| PPL | Motor Management Plan | Mfg: Comp & Elec | Motors | Existing | end use | 21,287 | 2.9% | 0.09 | 10 | \$43 | 73% | 2.98 |
| PPL | Motor Management Plan | Mfg: Comp & Elec | Motors | New | end use | 21,287 | 2.9% | 0.09 | 10 | \$43 | 73% | 2.99 |
| PPL | Motors Other | Mfg: Comp & Elec | Motors | Existing | end use | 21,287 | 1.4% | 0.04 | 15 | \$5.4 | 83% | 6.81 |
| PPL | Motors Other | Mfg: Comp & Elec | Motors | New | end use | 21,287 | 1.4% | 0.04 | 15 | \$5.4 | 83% | 6.80 |
| PPL | Motors: Rewind 101-200 HP | Mfg: Comp & Elec | Motors | Existing | end use | 21,287 | 0.6% | 0.02 | 10 | \$27 | 27% | 1.42 |
| PPL | Motors: Rewind 101-200 HP | Mfg: Comp & Elec | Motors | New | end use | 21,287 | 0.6% | 0.02 | 10 | \$27 | 27% | 1.43 |
| PPL | Motors: Rewind 201-500 HP | Mfg: Comp & Elec | Motors | Existing | end use | 21,287 | 0.6% | 0.02 | 8 | \$17 | 27% | 1.63 |
| PPL | Motors: Rewind 201-500 HP | Mfg: Comp & Elec | Motors | New | end use | 21,287 | 0.6% | 0.02 | 8 | \$17 | 27% | 1.63 |
| PPL | Motors: Rewind 20-50 HP | Mfg: Comp & Elec | Motors | Existing | end use | 21,287 | 1.0% | 0.03 | 11 | \$79 | 42% | 1.09 |
| PPL | Motors: Rewind 20-50 HP | Mfg: Comp & Elec | Motors | New | end use | 21,287 | 1.0% | 0.03 | 11 | \$79 | 42% | 1.09 |
| PPL | Motors: Rewind 500+ HP | Mfg: Comp & Elec | Motors | Existing | end use | 21,287 | 0.6% | 0.02 | 8 | \$12 | 11% | 2.04 |
| PPL | Motors: Rewind 500+ HP | Mfg: Comp & Elec | Motors | New | end use | 21,287 | 0.6% | 0.02 | 8 | \$12 | 11% | 2.04 |
| PPL | Motors: Rewind 51-100 HP | Mfg: Comp & Elec | Motors | Existing | end use | 21,287 | 0.6% | 0.02 | 9 | \$39 | 42% | 1.02 |
| PPL | Motors: Rewind 51-100 HP | Mfg: Comp & Elec | Motors | New | end use | 21,287 | 0.6% | 0.02 | 9 | \$39 | 42% | 1.02 |
| PPL | Switch from Belt drive to Direct Drive | Mfg: Comp & Elec | Motors | Early | end use | 21,287 | 7.5% | 0.23 | 12 | \$342 | 30% | 1.79 |
| PPL | Switch from Belt drive to Direct Drive | Mfg: Comp & Elec | Motors | New | end use | 21,287 | 7.5% | 0.23 | 12 | \$342 | 30% | 1.79 |
| PPL | Switch from Belt drive to Direct Drive | Mfg: Comp & Elec | Motors | ROB | end use | 21,287 | 7.5% | 0.23 | 12 | \$342 | 30% | 1.79 |
| PPL | Bldg Improvements | Mfg: Comp & Elec | Other | Existing | end use | 62,135 | 16% | 1.20 | 15 | \$1,355 | 72% | 2.86 |
| PPL | Bldg Improvements | Mfg: Comp & Elec | Other | New | end use | 62,135 | 16% | 1.20 | 15 | \$1,355 | 72% | 2.86 |
| PPL | Energy Project Management | Mfg: Comp & Elec | Other | Existing | end use | 62,135 | 29% | 2.15 | 11 | \$2,218 | 63% | 2.30 |
| PPL | Energy Project Management | Mfg: Comp & Elec | Other | New | end use | 62,135 | 29% | 2.15 | 11 | \$2,218 | 63% | 2.30 |
| PPL | Facility Energy Management | Mfg: Comp & Elec | Other | Existing | end use | 62,135 | 1.9% | 0.14 | 2 | \$24 | 76% | 1.06 |
| PPL | Facility Energy Management | Mfg: Comp & Elec | Other | New | end use | 62,135 | 1.9% | 0.14 | 2 | \$24 | 76% | 1.07 |
| PPL | Integrated Plant Energy Management | Mfg: Comp & Elec | Other | Existing | end use | 62,135 | 50% | 3.70 | 11 | \$6,124 | 48% | 1.67 |
| PPL | Integrated Plant Energy Management | Mfg: Comp & Elec | Other | New | end use | 62,135 | 50% | 3.70 | 11 | \$6,124 | 48% | 1.67 |
| PPL | Plant Energy Management | Mfg: Comp & Elec | Other | Existing | end use | 62,135 | 12% | 0.89 | 10 | \$156 | 55% | 4.47 |
| PPL | Plant Energy Management | Mfg: Comp & Elec | Other | New | end use | 62,135 | 12% | 0.89 | 10 | \$156 | 55% | 4.47 |
| PPL | Transformers | Mfg: Comp & Elec | Other | Early | end use | 62,135 | 1.6% | 0.12 | 15 | \$199 | 34% | 2.18 |
| PPL | Transformers | Mfg: Comp & Elec | Other | New | end use | 62,135 | 1.6% | 0.12 | 15 | \$199 | 34% | 2.18 |
| PPL | Transformers | Mfg: Comp & Elec | Other | ROB | end use | 62,135 | 1.6% | 0.12 | 15 | \$199 | 34% | 2.17 |
| PPL | Air Compressor Demand Reduction | Mfg: Comp & Elec | Process Air Compressor | Existing | end use | 4,179 | 26% | 0.14 | 10 | \$63 | 52% | 3.22 |
| PPL | Air Compressor Demand Reduction | Mfg: Comp & Elec | Process Air Compressor | New | end use | 4,179 | 26% | 0.14 | 10 | \$63 | 52% | 3.22 |
| PPL | Facility Energy Management | Mfg: Comp & Elec | Process Air Compressor | Existing | end use | 4,179 | 1.8% | 0.01 | 2 | \$1.6 | 66% | 1.08 |
| PPL | Facility Energy Management | Mfg: Comp & Elec | Process Air Compressor | New | end use | 4,179 | 1.9% | 0.01 | 2 | \$1.6 | 66% | 1.08 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|-------------------------------------|------------------|------------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | HE Compressor motors | Mfg: Comp & Elec | Process Air Compressor | Early | end use | 4,179 | 1.1% | 0.01 | 15 | \$16 | 73% | 1.45 |
| PPL | HE Compressor motors | Mfg: Comp & Elec | Process Air Compressor | New | end use | 4,179 | 1.1% | 0.01 | 15 | \$16 | 73% | 1.43 |
| PPL | HE Compressor motors | Mfg: Comp & Elec | Process Air Compressor | ROB | end use | 4,179 | 1.1% | 0.01 | 15 | \$16 | 73% | 1.44 |
| PPL | Improved Controls - Air Compressor | Mfg: Comp & Elec | Process Air Compressor | Existing | end use | 4,179 | 41% | 0.22 | 10 | \$75 | 25% | 3.62 |
| PPL | Improved Controls - Air Compressor | Mfg: Comp & Elec | Process Air Compressor | New | end use | 4,179 | 41% | 0.22 | 10 | \$75 | 25% | 3.62 |
| PPL | Low Pressure-drop Filters | Mfg: Comp & Elec | Process Air Compressor | Existing | end use | 4,179 | 1.8% | 0.01 | 10 | \$47 | 61% | 0.60 |
| PPL | Low Pressure-drop Filters | Mfg: Comp & Elec | Process Air Compressor | New | end use | 4,179 | 1.9% | 0.01 | 10 | \$47 | 61% | 0.60 |
| PPL | Outside Air Intake | Mfg: Comp & Elec | Process Air Compressor | Existing | end use | 4,179 | 1.4% | 0.01 | 10 | \$27 | 48% | 0.79 |
| PPL | Outside Air Intake | Mfg: Comp & Elec | Process Air Compressor | New | end use | 4,179 | 1.4% | 0.01 | 10 | \$27 | 48% | 0.78 |
| PPL | Receiver Capacity Addition | Mfg: Comp & Elec | Process Air Compressor | Existing | end use | 4,179 | 6.0% | 0.03 | 10 | \$78 | 36% | 1.08 |
| PPL | Receiver Capacity Addition | Mfg: Comp & Elec | Process Air Compressor | New | end use | 4,179 | 5.9% | 0.03 | 10 | \$78 | 36% | 1.08 |
| PPL | Refrigerated Cycling Dryers | Mfg: Comp & Elec | Process Air Compressor | Early | end use | 4,179 | 1.7% | 0.01 | 10 | \$9.6 | 21% | 1.99 |
| PPL | Refrigerated Cycling Dryers | Mfg: Comp & Elec | Process Air Compressor | New | end use | 4,179 | 1.7% | 0.01 | 10 | \$9.6 | 21% | 1.99 |
| PPL | Refrigerated Cycling Dryers | Mfg: Comp & Elec | Process Air Compressor | ROB | end use | 4,179 | 1.7% | 0.01 | 10 | \$9.6 | 21% | 2.00 |
| PPL | VFD Controlled Compressor | Mfg: Comp & Elec | Process Air Compressor | Early | end use | 4,179 | 24% | 0.13 | 10 | \$411 | 28% | 0.85 |
| PPL | VFD Controlled Compressor | Mfg: Comp & Elec | Process Air Compressor | New | end use | 4,179 | 24% | 0.13 | 10 | \$411 | 28% | 0.85 |
| PPL | VFD Controlled Compressor | Mfg: Comp & Elec | Process Air Compressor | ROB | end use | 4,179 | 24% | 0.13 | 10 | \$411 | 28% | 0.85 |
| PPL | Zero Loss Condensate Drain | Mfg: Comp & Elec | Process Air Compressor | Early | end use | 4,179 | 1.8% | 0.01 | 10 | \$24 | 8% | 1.09 |
| PPL | Zero Loss Condensate Drain | Mfg: Comp & Elec | Process Air Compressor | New | end use | 4,179 | 1.8% | 0.01 | 10 | \$24 | 8% | 1.08 |
| PPL | Zero Loss Condensate Drain | Mfg: Comp & Elec | Process Air Compressor | ROB | end use | 4,179 | 1.8% | 0.01 | 10 | \$24 | 8% | 1.09 |
| PPL | Clean Room: Change Filter Strategy | Mfg: Comp & Elec | Process Cooling | Existing | end use | 43,393 | 40% | 3.62 | 1 | \$113 | 13% | 0.78 |
| PPL | Clean Room: Change Filter Strategy | Mfg: Comp & Elec | Process Cooling | New | end use | 43,393 | 40% | 3.62 | 1 | \$113 | 13% | 0.78 |
| PPL | Clean Room: Chiller Optimize | Mfg: Comp & Elec | Process Cooling | Existing | end use | 43,393 | 15% | 1.34 | 10 | \$524 | 21% | 2.99 |
| PPL | Clean Room: Chiller Optimize | Mfg: Comp & Elec | Process Cooling | New | end use | 43,393 | 15% | 1.34 | 10 | \$524 | 21% | 2.99 |
| PPL | Clean Room: Clean Room HVAC | Mfg: Comp & Elec | Process Cooling | Existing | end use | 43,393 | 9.0% | 0.81 | 15 | \$632 | 31% | 2.78 |
| PPL | Clean Room: Clean Room HVAC | Mfg: Comp & Elec | Process Cooling | New | end use | 43,393 | 9.0% | 0.81 | 15 | \$632 | 31% | 2.78 |
| PPL | Cooling Tower Optimization | Mfg: Comp & Elec | Process Cooling | Existing | building | 43,393 | 20% | 3.11 | 10 | \$266 | 15% | 5.25 |
| PPL | Elec Chip Fab: Solidstate Chiller | Mfg: Comp & Elec | Process Cooling | Early | end use | 43,393 | 90% | 8.14 | 10 | \$19,860 | 42% | 0.78 |
| PPL | Elec Chip Fab: Solidstate Chiller | Mfg: Comp & Elec | Process Cooling | New | end use | 43,393 | 90% | 8.14 | 10 | \$19,860 | 42% | 0.78 |
| PPL | Elec Chip Fab: Solidstate Chiller | Mfg: Comp & Elec | Process Cooling | ROB | end use | 43,393 | 90% | 8.14 | 10 | \$19,860 | 42% | 0.78 |
| PPL | Equipment: Chillers | Mfg: Comp & Elec | Process Cooling | Early | end use | 43,393 | 18% | 1.62 | 15 | \$2,037 | 39% | 1.94 |
| PPL | Equipment: Chillers | Mfg: Comp & Elec | Process Cooling | New | end use | 43,393 | 18% | 1.62 | 15 | \$2,037 | 39% | 1.94 |
| PPL | Equipment: Chillers | Mfg: Comp & Elec | Process Cooling | ROB | end use | 43,393 | 18% | 1.62 | 15 | \$2,037 | 39% | 1.94 |
| PPL | Facility Energy Management | Mfg: Comp & Elec | Process Cooling | Existing | end use | 43,393 | 1.9% | 0.17 | 2 | \$17 | 50% | 1.19 |
| PPL | Facility Energy Management | Mfg: Comp & Elec | Process Cooling | New | end use | 43,393 | 1.9% | 0.17 | 2 | \$17 | 50% | 1.19 |
| PPL | Improved Controls - Process Cooling | Mfg: Comp & Elec | Process Cooling | Existing | end use | 43,393 | 6.0% | 0.54 | 10 | \$2,291 | 47% | 0.48 |
| PPL | Improved Controls - Process Cooling | Mfg: Comp & Elec | Process Cooling | New | end use | 43,393 | 6.0% | 0.54 | 10 | \$2,291 | 47% | 0.48 |
| PPL | VFD on Cooling Tower Fan | Mfg: Comp & Elec | Process Cooling | Early | motor | 43,393 | 21% | 2.73 | 15 | \$1,999 | 20% | 2.46 |
| PPL | VFD on Cooling Tower Fan | Mfg: Comp & Elec | Process Cooling | New | motor | 43,393 | 22% | 2.73 | 15 | \$2,037 | 20% | 2.44 |
| PPL | VFD on Cooling Tower Fan | Mfg: Comp & Elec | Process Cooling | ROB | motor | 43,393 | 22% | 2.73 | 15 | \$2,037 | 20% | 2.44 |
| PPL | Improved Controls - Process Heating | Mfg: Comp & Elec | Process Heating | Existing | end use | 110,197 | 17% | 2.59 | 10 | \$1,266 | 77% | 3.04 |
| PPL | Improved Controls - Process Heating | Mfg: Comp & Elec | Process Heating | New | end use | 110,197 | 17% | 2.59 | 10 | \$1,266 | 77% | 3.04 |
| PPL | Process Heat O&M | Mfg: Comp & Elec | Process Heating | Existing | end use | 110,197 | 16% | 2.45 | 2 | \$765 | 77% | 0.88 |
| PPL | Process Heat O&M | Mfg: Comp & Elec | Process Heating | New | end use | 110,197 | 16% | 2.45 | 2 | \$765 | 77% | 0.88 |
| PPL | Elec Chip Fab: Eliminate Exhaust | Mfg: Comp & Elec | Process Other | Existing | end use | 40,740 | 5.0% | 0.29 | 10 | \$380 | 68% | 1.63 |
| PPL | Elec Chip Fab: Eliminate Exhaust | Mfg: Comp & Elec | Process Other | New | end use | 40,740 | 5.0% | 0.29 | 10 | \$380 | 68% | 1.63 |
| PPL | Elec Chip Fab: Exhaust Injector | Mfg: Comp & Elec | Process Other | Existing | end use | 40,740 | 100% | 5.72 | 10 | \$18,346 | 68% | 0.80 |
| PPL | Elec Chip Fab: Exhaust Injector | Mfg: Comp & Elec | Process Other | New | end use | 40,740 | 100% | 5.72 | 10 | \$18,346 | 68% | 0.80 |
| PPL | Elec Chip Fab: Reduce Gas Pressure | Mfg: Comp & Elec | Process Other | Existing | end use | 40,740 | 10% | 0.57 | 10 | \$0.0 | 68% | 5.96 |
| PPL | Elec Chip Fab: Reduce Gas Pressure | Mfg: Comp & Elec | Process Other | New | end use | 40,740 | 10.0% | 0.57 | 10 | \$0.0 | 68% | 5.96 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---------------------------------------|------------------|-----------------------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Facility Energy Management | Mfg: Comp & Elec | Process Other | Existing | end use | 40,740 | 1.9% | 0.11 | 2 | \$16 | 77% | 1.10 |
| PPL | Facility Energy Management | Mfg: Comp & Elec | Process Other | New | end use | 40,740 | 1.9% | 0.11 | 2 | \$16 | 77% | 1.10 |
| PPL | Adjustable speed drive on compressors | Mfg: Comp & Elec | Process Refrigeration | Early | end use | 22,291 | 12% | 0.38 | 10 | \$412 | 30% | 1.97 |
| PPL | Adjustable speed drive on compressors | Mfg: Comp & Elec | Process Refrigeration | New | end use | 22,291 | 12% | 0.38 | 10 | \$412 | 30% | 1.97 |
| PPL | Adjustable speed drive on compressors | Mfg: Comp & Elec | Process Refrigeration | ROB | end use | 22,291 | 12% | 0.38 | 10 | \$412 | 30% | 1.97 |
| PPL | Cooling Tower Optimization | Mfg: Comp & Elec | Process Refrigeration | Existing | building | 22,291 | 20% | 1.60 | 10 | \$137 | 15% | 5.25 |
| PPL | Optimization of operating parameters | Mfg: Comp & Elec | Process Refrigeration | Existing | end use | 22,291 | 13% | 0.43 | 3 | \$180 | 27% | 1.11 |
| PPL | Optimization of operating parameters | Mfg: Comp & Elec | Process Refrigeration | New | end use | 22,291 | 13% | 0.43 | 3 | \$180 | 27% | 1.11 |
| PPL | VFD on Cooling Tower Fan | Mfg: Comp & Elec | Process Refrigeration | Early | motor | 22,291 | 21% | 1.40 | 15 | \$1,027 | 20% | 2.46 |
| PPL | VFD on Cooling Tower Fan | Mfg: Comp & Elec | Process Refrigeration | New | motor | 22,291 | 22% | 1.40 | 15 | \$1,047 | 20% | 2.44 |
| PPL | VFD on Cooling Tower Fan | Mfg: Comp & Elec | Process Refrigeration | ROB | motor | 22,291 | 22% | 1.40 | 15 | \$1,047 | 20% | 2.44 |
| PPL | Facility Energy Management | Mfg: Comp & Elec | Pumps | Existing | end use | 119,327 | 1.8% | 0.29 | 2 | \$46 | 73% | 1.08 |
| PPL | Facility Energy Management | Mfg: Comp & Elec | Pumps | New | end use | 119,327 | 1.9% | 0.29 | 2 | \$46 | 73% | 1.08 |
| PPL | HE Motors | Mfg: Comp & Elec | Pumps | Early | end use | 119,327 | 2.0% | 0.32 | 15 | \$710 | 77% | 1.69 |
| PPL | HE Motors | Mfg: Comp & Elec | Pumps | New | end use | 119,327 | 2.0% | 0.32 | 15 | \$710 | 77% | 1.69 |
| PPL | HE Motors | Mfg: Comp & Elec | Pumps | ROB | end use | 119,327 | 2.0% | 0.32 | 15 | \$710 | 77% | 1.69 |
| PPL | Motor rewinds | Mfg: Comp & Elec | Pumps | Existing | end use | 119,327 | 0.6% | 0.09 | 9 | \$170 | 12% | 1.23 |
| PPL | Motor rewinds | Mfg: Comp & Elec | Pumps | New | end use | 119,327 | 0.6% | 0.09 | 9 | \$170 | 12% | 1.23 |
| PPL | Circulating Fans | Mfg: Food | Fans | Early | end use | 440,724 | 5.0% | 2.62 | 10 | \$2,683 | 68% | 2.28 |
| PPL | Circulating Fans | Mfg: Food | Fans | New | end use | 440,724 | 5.0% | 2.62 | 10 | \$2,683 | 68% | 2.28 |
| PPL | Circulating Fans | Mfg: Food | Fans | ROB | end use | 440,724 | 5.0% | 2.62 | 10 | \$2,683 | 68% | 2.28 |
| PPL | Facility Energy Management | Mfg: Food | Fans | Existing | end use | 440,724 | 1.9% | 0.97 | 2 | \$170 | 77% | 1.07 |
| PPL | Facility Energy Management | Mfg: Food | Fans | New | end use | 440,724 | 1.9% | 0.97 | 2 | \$170 | 77% | 1.07 |
| PPL | Fan System Optimization | Mfg: Food | Fans | Existing | end use | 440,724 | 7.3% | 3.85 | 10 | \$6,012 | 83% | 1.59 |
| PPL | Fan System Optimization | Mfg: Food | Fans | New | end use | 440,724 | 7.3% | 3.85 | 10 | \$6,012 | 83% | 1.59 |
| PPL | HE Motors | Mfg: Food | Fans | Early | end use | 440,724 | 2.0% | 1.07 | 15 | \$2,624 | 77% | 1.73 |
| PPL | HE Motors | Mfg: Food | Fans | New | end use | 440,724 | 2.0% | 1.07 | 15 | \$2,624 | 77% | 1.73 |
| PPL | HE Motors | Mfg: Food | Fans | ROB | end use | 440,724 | 2.0% | 1.07 | 15 | \$2,624 | 77% | 1.73 |
| PPL | Improved Controls - Fans | Mfg: Food | Fans | Existing | end use | 440,724 | 7.1% | 3.73 | 10 | \$1,709 | 60% | 3.27 |
| PPL | Improved Controls - Fans | Mfg: Food | Fans | New | end use | 440,724 | 7.1% | 3.73 | 10 | \$1,709 | 60% | 3.27 |
| PPL | Properly Sized Fans | Mfg: Food | Fans | Early | end use | 440,724 | 13% | 6.90 | 10 | \$9,027 | 41% | 1.93 |
| PPL | Properly Sized Fans | Mfg: Food | Fans | New | end use | 440,724 | 13% | 6.90 | 10 | \$9,027 | 41% | 1.93 |
| PPL | Properly Sized Fans | Mfg: Food | Fans | ROB | end use | 440,724 | 13% | 6.90 | 10 | \$9,027 | 41% | 1.93 |
| PPL | Synchronous Belts | Mfg: Food | Fans | Early | end use | 440,724 | 1.2% | 0.61 | 10 | \$649 | 41% | 2.22 |
| PPL | Synchronous Belts | Mfg: Food | Fans | New | end use | 440,724 | 1.2% | 0.61 | 10 | \$649 | 41% | 2.22 |
| PPL | Synchronous Belts | Mfg: Food | Fans | ROB | end use | 440,724 | 1.2% | 0.61 | 10 | \$649 | 41% | 2.22 |
| PPL | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Food | HVAC | Early | unit (ton) | 273,559 | 9.2% | 6.51 | 15 | \$49,832 | 28% | 0.34 |
| PPL | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Food | HVAC | New | unit (ton) | 273,559 | 4.1% | 2.92 | 15 | \$12,073 | 28% | 0.61 |
| PPL | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Food | HVAC | ROB | unit (ton) | 273,559 | 4.1% | 2.92 | 15 | \$12,073 | 28% | 0.61 |
| PPL | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Food | HVAC | Early | unit (ton) | 273,559 | 12% | 8.80 | 15 | \$58,747 | 28% | 0.38 |
| PPL | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Food | HVAC | New | unit (ton) | 273,559 | 7.7% | 5.46 | 15 | \$25,429 | 28% | 0.54 |
| PPL | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Food | HVAC | ROB | unit (ton) | 273,559 | 7.7% | 5.46 | 15 | \$25,429 | 28% | 0.54 |
| PPL | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Food | HVAC | Early | unit (ton) | 273,559 | 15% | 10.81 | 15 | \$67,662 | 29% | 0.41 |
| PPL | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Food | HVAC | New | unit (ton) | 273,559 | 11% | 7.67 | 15 | \$38,785 | 29% | 0.50 |
| PPL | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Food | HVAC | ROB | unit (ton) | 273,559 | 11% | 7.67 | 15 | \$38,785 | 29% | 0.50 |
| PPL | >760k min 10.2 EER Air Conditioner | Mfg: Food | HVAC | Early | unit (ton) | 273,559 | 2.1% | 1.51 | 15 | \$86,779 | 35% | 0.05 |
| PPL | >760k min 10.2 EER Air Conditioner | Mfg: Food | HVAC | New | unit (ton) | 273,559 | 2.8% | 2.01 | 15 | \$7,843 | 35% | 0.64 |
| PPL | >760k min 10.2 EER Air Conditioner | Mfg: Food | HVAC | ROB | unit (ton) | 273,559 | 2.8% | 2.01 | 15 | \$7,843 | 35% | 0.64 |
| PPL | 135-240k min 12 EER Air Conditioner | Mfg: Food | HVAC | Early | unit (ton) | 273,559 | 10% | 7.42 | 15 | \$93,969 | 35% | 0.21 |
| PPL | 135-240k min 12 EER Air Conditioner | Mfg: Food | HVAC | New | unit (ton) | 273,559 | 5.8% | 4.09 | 15 | \$11,095 | 35% | 0.90 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|-----------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | 135-240k min 12 EER Air Conditioner | Mfg: Food | HVAC | ROB | unit (ton) | 273,559 | 5.8% | 4.09 | 15 | \$11,095 | 35% | 0.90 |
| PPL | 240k-760k min 11 EER Air Conditioner | Mfg: Food | HVAC | Early | unit (ton) | 273,559 | 5.2% | 3.70 | 15 | \$86,834 | 35% | 0.11 |
| PPL | 240k-760k min 11 EER Air Conditioner | Mfg: Food | HVAC | New | unit (ton) | 273,559 | 5.3% | 3.79 | 15 | \$9,303 | 35% | 0.98 |
| PPL | 240k-760k min 11 EER Air Conditioner | Mfg: Food | HVAC | ROB | unit (ton) | 273,559 | 5.3% | 3.79 | 15 | \$9,303 | 35% | 0.98 |
| PPL | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Food | HVAC | Early | unit (ton) | 273,559 | 9.7% | 6.88 | 15 | \$96,216 | 35% | 0.19 |
| PPL | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Food | HVAC | New | unit (ton) | 273,559 | 3.8% | 2.73 | 15 | \$13,728 | 35% | 0.50 |
| PPL | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Food | HVAC | ROB | unit (ton) | 273,559 | 3.8% | 2.73 | 15 | \$13,728 | 35% | 0.50 |
| PPL | Ceiling Insualtions (Going upto R 20) | Mfg: Food | HVAC | Existing | building | 273,559 | 5.9% | 4.06 | 15 | \$828,842 | 71% | 0.01 |
| PPL | Ceiling Insualtions (Going upto R 20) | Mfg: Food | HVAC | New | building | 273,559 | 3.7% | 2.55 | 15 | \$787,837 | 94% | 0.01 |
| PPL | Chiller Tuneup/Diagnostics | Mfg: Food | HVAC | Existing | building | 273,559 | 8.0% | 8.02 | 10 | \$698,520 | 59% | 0.02 |
| PPL | Chiller Tuneup/Diagnostics | Mfg: Food | HVAC | New | building | 273,559 | 8.0% | 8.04 | 10 | \$698,520 | 59% | 0.02 |
| PPL | Cooling Tower Optimization | Mfg: Food | HVAC | Existing | building | 273,559 | 20% | 19.58 | 10 | \$1,678 | 12% | 5.25 |
| PPL | Duct Insulation, Add R8 | Mfg: Food | HVAC | Existing | building | 273,559 | 1.5% | 0.88 | 15 | \$2,173 | 18% | 1.10 |
| PPL | Duct Insulation, Add R8 | Mfg: Food | HVAC | New | building | 273,559 | 1.5% | 0.88 | 15 | \$2,173 | 9% | 1.10 |
| PPL | Ductless Heat Pump | Mfg: Food | HVAC | Early | heat pump | 273,559 | 0.8% | 0.51 | 15 | \$21,727 | 83% | 0.07 |
| PPL | Ductless Heat Pump | Mfg: Food | HVAC | New | heat pump | 273,559 | 0.4% | 0.27 | 15 | \$6,310 | 83% | 0.13 |
| PPL | Ductless Heat Pump | Mfg: Food | HVAC | ROB | heat pump | 273,559 | 0.4% | 0.27 | 15 | \$6,310 | 83% | 0.13 |
| PPL | DX Coil Cleaning | Mfg: Food | HVAC | Existing | building | 273,559 | 13% | 12.55 | 1 | \$2,622 | 73% | 0.48 |
| PPL | DX Coil Cleaning | Mfg: Food | HVAC | New | building | 273,559 | 13% | 12.55 | 1 | \$2,622 | 73% | 0.48 |
| PPL | Efficient Unit Heating System | Mfg: Food | HVAC | Early | heater | 273,559 | 6.9% | 0.16 | 15 | \$14,736 | 83% | 0.62 |
| PPL | Efficient Unit Heating System | Mfg: Food | HVAC | New | heater | 273,559 | 4.0% | 0.09 | 15 | \$10,051 | 83% | 0.53 |
| PPL | Efficient Unit Heating System | Mfg: Food | HVAC | ROB | heater | 273,559 | 4.0% | 0.09 | 15 | \$10,051 | 83% | 0.53 |
| PPL | Ground Source Heat Pump (Closed Loop) | Mfg: Food | HVAC | Early | heat pump | 273,559 | 1.3% | 0.80 | 15 | \$45,114 | 19% | 0.05 |
| PPL | Ground Source Heat Pump (Closed Loop) | Mfg: Food | HVAC | New | heat pump | 273,559 | 1.0% | 0.63 | 15 | \$17,813 | 19% | 0.10 |
| PPL | Ground Source Heat Pump (Closed Loop) | Mfg: Food | HVAC | ROB | heat pump | 273,559 | 1.0% | 0.63 | 15 | \$17,813 | 19% | 0.10 |
| PPL | Ground Source Heat Pump (Open Loop) | Mfg: Food | HVAC | Early | heat pump | 273,559 | 1.3% | 0.80 | 15 | \$28,894 | 19% | 0.08 |
| PPL | Ground Source Heat Pump (Open Loop) | Mfg: Food | HVAC | New | heat pump | 273,559 | 1.0% | 0.63 | 15 | \$613 | 19% | 2.32 |
| PPL | Ground Source Heat Pump (Open Loop) | Mfg: Food | HVAC | ROB | heat pump | 273,559 | 1.0% | 0.63 | 15 | \$613 | 19% | 2.32 |
| PPL | HE Air Cooled Chiller, 100 Tons | Mfg: Food | HVAC | Early | unit (ton) | 273,559 | 1.5% | 0.91 | 15 | \$321,612 | 89% | 0.01 |
| PPL | HE Air Cooled Chiller, 100 Tons | Mfg: Food | HVAC | New | unit (ton) | 273,559 | 0.4% | 0.26 | 15 | \$46,853 | 89% | 0.02 |
| PPL | HE Air Cooled Chiller, 100 Tons | Mfg: Food | HVAC | ROB | unit (ton) | 273,559 | 0.4% | 0.26 | 15 | \$46,853 | 89% | 0.02 |
| PPL | HE Air Cooled Chiller, 150 Tons | Mfg: Food | HVAC | Early | unit (ton) | 273,559 | 1.5% | 0.90 | 15 | \$277,800 | 89% | 0.01 |
| PPL | HE Air Cooled Chiller, 150 Tons | Mfg: Food | HVAC | New | unit (ton) | 273,559 | 0.3% | 0.19 | 15 | \$23,009 | 89% | 0.02 |
| PPL | HE Air Cooled Chiller, 150 Tons | Mfg: Food | HVAC | ROB | unit (ton) | 273,559 | 0.3% | 0.19 | 15 | \$23,009 | 89% | 0.02 |
| PPL | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Food | HVAC | Early | heat pump | 273,559 | 1.4% | 0.84 | 12 | \$11,777 | 81% | 0.17 |
| PPL | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Food | HVAC | Early | heat pump | 273,559 | 1.1% | 0.70 | 12 | \$8,604 | 81% | 0.20 |
| PPL | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Food | HVAC | New | heat pump | 273,559 | 1.0% | 0.63 | 12 | \$5,258 | 81% | 0.29 |
| PPL | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Food | HVAC | New | heat pump | 273,559 | 0.8% | 0.47 | 12 | \$1,838 | 81% | 0.58 |
| PPL | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Food | HVAC | ROB | heat pump | 273,559 | 1.0% | 0.63 | 12 | \$5,258 | 81% | 0.29 |
| PPL | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Food | HVAC | ROB | heat pump | 273,559 | 0.8% | 0.47 | 12 | \$1,838 | 81% | 0.58 |
| PPL | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Food | HVAC | Early | unit (ton) | 273,559 | 1.6% | 0.99 | 15 | \$25,518 | 89% | 0.11 |
| PPL | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Food | HVAC | New | unit (ton) | 273,559 | 0.9% | 0.57 | 15 | \$8,487 | 89% | 0.20 |
| PPL | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Food | HVAC | ROB | unit (ton) | 273,559 | 0.9% | 0.57 | 15 | \$8,487 | 89% | 0.20 |
| PPL | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Food | HVAC | Early | unit (ton) | 273,559 | 1.4% | 0.87 | 15 | \$24,922 | 89% | 0.10 |
| PPL | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Food | HVAC | New | unit (ton) | 273,559 | 1.0% | 0.61 | 15 | \$4,867 | 89% | 0.36 |
| PPL | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Food | HVAC | ROB | unit (ton) | 273,559 | 1.4% | 0.87 | 15 | \$4,471 | 89% | 0.55 |
| PPL | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Food | HVAC | Early | unit (ton) | 273,559 | 1.4% | 0.86 | 15 | \$29,497 | 89% | 0.09 |
| PPL | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Food | HVAC | New | unit (ton) | 273,559 | 0.9% | 0.55 | 15 | \$12,419 | 89% | 0.13 |
| PPL | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Food | HVAC | ROB | unit (ton) | 273,559 | 1.4% | 0.86 | 15 | \$11,240 | 89% | 0.22 |
| PPL | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Food | HVAC | Early | unit (ton) | 273,559 | 1.4% | 0.86 | 15 | \$28,413 | 89% | 0.09 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|-----------|----------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Food | HVAC | New | unit (ton) | 273,559 | 0.9% | 0.55 | 15 | \$10,795 | 89% | 0.15 |
| PPL | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Food | HVAC | ROB | unit (ton) | 273,559 | 1.4% | 0.86 | 15 | \$9,770 | 89% | 0.26 |
| PPL | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Food | HVAC | Early | unit (ton) | 273,559 | 1.8% | 1.12 | 15 | \$30,616 | 89% | 0.11 |
| PPL | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Food | HVAC | New | unit (ton) | 273,559 | 0.6% | 0.34 | 15 | \$18,958 | 89% | 0.05 |
| PPL | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Food | HVAC | ROB | unit (ton) | 273,559 | 1.8% | 1.12 | 15 | \$14,721 | 89% | 0.22 |
| PPL | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Food | HVAC | Early | unit (ton) | 273,559 | 2.2% | 1.33 | 15 | \$28,160 | 89% | 0.14 |
| PPL | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Food | HVAC | New | unit (ton) | 273,559 | 0.8% | 0.48 | 15 | \$11,300 | 89% | 0.13 |
| PPL | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Food | HVAC | ROB | unit (ton) | 273,559 | 0.8% | 0.48 | 15 | \$11,300 | 89% | 0.13 |
| PPL | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Food | HVAC | Early | unit (ton) | 273,559 | 2.4% | 1.50 | 15 | \$23,867 | 89% | 0.18 |
| PPL | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Food | HVAC | New | unit (ton) | 273,559 | 0.9% | 0.56 | 15 | \$6,006 | 89% | 0.27 |
| PPL | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Food | HVAC | ROB | unit (ton) | 273,559 | 2.4% | 1.50 | 15 | \$4,282 | 89% | 0.94 |
| PPL | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Food | HVAC | Early | unit (ton) | 273,559 | 1.8% | 1.13 | 15 | \$23,627 | 89% | 0.14 |
| PPL | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Food | HVAC | New | unit (ton) | 273,559 | 0.7% | 0.42 | 15 | \$6,616 | 89% | 0.19 |
| PPL | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Food | HVAC | ROB | unit (ton) | 273,559 | 1.8% | 1.13 | 15 | \$5,242 | 89% | 0.60 |
| PPL | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Food | HVAC | Existing | building | 273,559 | 2.9% | 1.61 | 5 | \$2,902 | 55% | 0.57 |
| PPL | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Food | HVAC | New | building | 273,559 | 0.6% | 0.64 | 5 | \$1,741 | 51% | 0.28 |
| PPL | Improved Controls - HVAC | Mfg: Food | HVAC | Existing | end use | 273,559 | 21% | 8.20 | 10 | \$2,876 | 76% | 3.49 |
| PPL | Improved Controls - HVAC | Mfg: Food | HVAC | New | end use | 273,559 | 21% | 8.20 | 10 | \$2,876 | 76% | 3.49 |
| PPL | Outside Air Economizer | Mfg: Food | HVAC | Existing | building | 273,559 | 1.1% | 0.77 | 10 | \$1,005,109 | 82% | 0.00 |
| PPL | Outside Air Economizer | Mfg: Food | HVAC | New | building | 273,559 | 1.1% | 0.77 | 10 | \$1,005,109 | 82% | 0.00 |
| PPL | Recommissioning | Mfg: Food | HVAC | Existing | end use | 273,559 | 5.0% | 1.96 | 10 | \$375 | 88% | 4.30 |
| PPL | Recommissioning | Mfg: Food | HVAC | New | end use | 273,559 | 5.0% | 1.96 | 10 | \$375 | 88% | 4.30 |
| PPL | Room AC (with louvered sides) | Mfg: Food | HVAC | Early | unit (ton) | 273,559 | 7.7% | 4.75 | 9 | \$21,441 | 78% | 0.39 |
| PPL | Room AC (with louvered sides) | Mfg: Food | HVAC | New | unit (ton) | 273,559 | 2.6% | 1.58 | 9 | \$1,174 | 78% | 1.77 |
| PPL | Room AC (with louvered sides) | Mfg: Food | HVAC | ROB | unit (ton) | 273,559 | 2.6% | 1.58 | 9 | \$1,174 | 78% | 1.77 |
| PPL | Variable Refrigerant Flow Heat Pump | Mfg: Food | HVAC | New | measure | 273,559 | 0.1% | 0.07 | 13 | \$2,023 | 43% | 0.09 |
| PPL | Variable Refrigerant Flow Heat Pump | Mfg: Food | HVAC | ROB | measure | 273,559 | 0.1% | 0.07 | 13 | \$2,023 | 43% | 0.09 |
| PPL | VFD on Cooling Tower Fan | Mfg: Food | HVAC | Early | motor | 273,559 | 21% | 17.21 | 15 | \$12,604 | 20% | 2.52 |
| PPL | VFD on Cooling Tower Fan | Mfg: Food | HVAC | New | motor | 273,559 | 22% | 17.21 | 15 | \$12,845 | 15% | 2.51 |
| PPL | VFD on Cooling Tower Fan | Mfg: Food | HVAC | ROB | motor | 273,559 | 22% | 17.21 | 15 | \$12,845 | 15% | 2.51 |
| PPL | Wall Insualtions (Going upto R 21) | Mfg: Food | HVAC | Existing | building | 273,559 | 19% | 13.08 | 15 | \$194,601 | 26% | 0.18 |
| PPL | Wall Insualtions (Going upto R 21) | Mfg: Food | HVAC | New | building | 273,559 | 0.6% | 0.42 | 15 | \$149,268 | 94% | 0.01 |
| PPL | Water Source Heat Pump (4 ton) | Mfg: Food | HVAC | Early | heat pump | 273,559 | 1.5% | 0.95 | 15 | \$46,718 | 6% | 0.06 |
| PPL | Water Source Heat Pump (4 ton) | Mfg: Food | HVAC | New | heat pump | 273,559 | 1.1% | 0.70 | 15 | \$22,769 | 6% | 0.09 |
| PPL | Water Source Heat Pump (4 ton) | Mfg: Food | HVAC | ROB | heat pump | 273,559 | 1.1% | 0.70 | 15 | \$22,769 | 6% | 0.09 |
| PPL | Efficient Metal Halide (High Bay) | Mfg: Food | Lighting | Early | end use | 282,458 | 42% | 0.00 | 9 | \$44,137 | 53% | 0.76 |
| PPL | Efficient Metal Halide (High Bay) | Mfg: Food | Lighting | New | end use | 282,458 | 41% | 0.00 | 13 | \$1,178,926 | 61% | 0.05 |
| PPL | Efficient Metal Halide (High Bay) | Mfg: Food | Lighting | ROB | end use | 282,458 | 41% | 0.00 | 13 | \$901,001 | 61% | 0.06 |
| PPL | Induction (High Bay) | Mfg: Food | Lighting | Early | end use | 282,458 | 94% | 0.00 | 13 | \$131,328 | 95% | 0.85 |
| PPL | Induction (High Bay) | Mfg: Food | Lighting | New | end use | 282,458 | 94% | 0.00 | 13 | \$122,956 | 95% | 0.90 |
| PPL | Induction (High Bay) | Mfg: Food | Lighting | ROB | end use | 282,458 | 94% | 0.00 | 13 | \$93,450 | 95% | 1.14 |
| PPL | LED (High Bay) | Mfg: Food | Lighting | Early | end use | 282,458 | 69% | 0.00 | 14 | \$154,592 | 95% | 0.59 |
| PPL | LED (High Bay) | Mfg: Food | Lighting | New | end use | 282,458 | 55% | 0.00 | 14 | \$171,593 | 95% | 0.43 |
| PPL | LED (High Bay) | Mfg: Food | Lighting | ROB | end use | 282,458 | 59% | 0.00 | 14 | \$113,060 | 95% | 0.68 |
| PPL | Lighting Controls | Mfg: Food | Lighting | Existing | end use | 282,458 | 20% | 0.00 | 6 | \$1,058,903 | 16% | 0.01 |
| PPL | Lighting Controls | Mfg: Food | Lighting | New | end use | 282,458 | 12% | 0.00 | 10 | \$1,408,686 | 11% | 0.01 |
| PPL | Linear Fluorescent (High Bay) | Mfg: Food | Lighting | Early | end use | 282,458 | 17% | 0.00 | 14 | \$32,319 | 98% | 0.68 |
| PPL | Linear Fluorescent (High Bay) | Mfg: Food | Lighting | New | end use | 282,458 | 13% | 0.00 | 14 | \$10,249 | 91% | 1.43 |
| PPL | Linear Fluorescent (High Bay) | Mfg: Food | Lighting | ROB | end use | 282,458 | 13% | 0.00 | 14 | \$6,562 | 91% | 2.07 |
| PPL | Metal Halide (High Bay) | Mfg: Food | Lighting | Early | end use | 282,458 | 62% | 0.00 | 13 | \$194,172 | 38% | 0.41 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---------------------------------------|-----------|----------|----------|---------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Metal Halide (High Bay) | Mfg: Food | Lighting | New | end use | 282,458 | 73% | 0.00 | 13 | \$46,424 | 38% | 1.61 |
| PPL | Metal Halide (High Bay) | Mfg: Food | Lighting | ROB | end use | 282,458 | 73% | 0.00 | 13 | \$35,282 | 38% | 1.97 |
| PPL | Screw Base CFL | Mfg: Food | Lighting | Early | end use | 282,458 | 80% | 0.00 | 7 | \$76,738 | 17% | 0.66 |
| PPL | Screw Base CFL | Mfg: Food | Lighting | New | end use | 282,458 | 73% | 0.00 | 9 | \$62,713 | 18% | 0.90 |
| PPL | Screw Base CFL | Mfg: Food | Lighting | ROB | end use | 282,458 | 73% | 0.00 | 9 | \$52,491 | 17% | 1.03 |
| PPL | Screw Base LED | Mfg: Food | Lighting | Early | end use | 282,458 | 76% | 0.00 | 9 | \$47,095 | 21% | 1.21 |
| PPL | Screw Base LED | Mfg: Food | Lighting | New | end use | 282,458 | 77% | 0.00 | 9 | \$26,235 | 20% | 1.84 |
| PPL | Screw Base LED | Mfg: Food | Lighting | ROB | end use | 282,458 | 77% | 0.00 | 9 | \$20,827 | 21% | 2.12 |
| PPL | T8 High Performance Linear Florescent | Mfg: Food | Lighting | Early | end use | 282,458 | 36% | 0.00 | 14 | \$27,029 | 71% | 1.52 |
| PPL | T8 High Performance Linear Florescent | Mfg: Food | Lighting | New | end use | 282,458 | 26% | 0.00 | 14 | \$9,670 | 76% | 2.56 |
| PPL | T8 High Performance Linear Florescent | Mfg: Food | Lighting | ROB | end use | 282,458 | 26% | 0.00 | 14 | \$7,350 | 76% | 3.03 |
| PPL | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Food | Motors | Early | end use | 139,143 | 0.9% | 0.18 | 15 | \$2,126 | 81% | 0.36 |
| PPL | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Food | Motors | New | end use | 139,143 | 0.9% | 0.18 | 15 | \$2,126 | 81% | 0.36 |
| PPL | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Food | Motors | ROB | end use | 139,143 | 0.9% | 0.18 | 15 | \$2,126 | 81% | 0.36 |
| PPL | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Food | Motors | Early | end use | 139,143 | 0.7% | 0.15 | 15 | \$1,291 | 73% | 0.47 |
| PPL | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Food | Motors | New | end use | 139,143 | 0.8% | 0.15 | 15 | \$1,291 | 73% | 0.48 |
| PPL | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Food | Motors | ROB | end use | 139,143 | 0.8% | 0.15 | 15 | \$1,291 | 73% | 0.48 |
| PPL | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Food | Motors | Early | end use | 139,143 | 0.5% | 0.09 | 15 | \$495 | 81% | 0.72 |
| PPL | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Food | Motors | New | end use | 139,143 | 0.5% | 0.09 | 15 | \$495 | 81% | 0.74 |
| PPL | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Food | Motors | ROB | end use | 139,143 | 0.5% | 0.09 | 15 | \$495 | 81% | 0.73 |
| PPL | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Food | Motors | Early | end use | 139,143 | 0.4% | 0.08 | 15 | \$163 | 73% | 1.68 |
| PPL | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Food | Motors | New | end use | 139,143 | 0.4% | 0.08 | 15 | \$163 | 73% | 1.73 |
| PPL | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Food | Motors | ROB | end use | 139,143 | 0.4% | 0.08 | 15 | \$163 | 73% | 1.72 |
| PPL | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Food | Motors | Early | end use | 139,143 | 0.9% | 0.18 | 15 | \$245 | 47% | 2.38 |
| PPL | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Food | Motors | New | end use | 139,143 | 0.9% | 0.18 | 15 | \$245 | 47% | 2.36 |
| PPL | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Food | Motors | ROB | end use | 139,143 | 0.9% | 0.18 | 15 | \$245 | 47% | 2.36 |
| PPL | Facility Energy Management | Mfg: Food | Motors | Existing | end use | 139,143 | 1.9% | 0.37 | 2 | \$54 | 77% | 1.10 |
| PPL | Facility Energy Management | Mfg: Food | Motors | New | end use | 139,143 | 1.9% | 0.37 | 2 | \$54 | 77% | 1.10 |
| PPL | HE Motors | Mfg: Food | Motors | Early | end use | 139,143 | 2.0% | 0.41 | 15 | \$828 | 38% | 1.71 |
| PPL | HE Motors | Mfg: Food | Motors | New | end use | 139,143 | 2.0% | 0.41 | 15 | \$828 | 38% | 1.71 |
| PPL | HE Motors | Mfg: Food | Motors | ROB | end use | 139,143 | 2.0% | 0.41 | 15 | \$828 | 38% | 1.71 |
| PPL | High-Efficiency Ventilation System | Mfg: Food | Motors | Early | end use | 139,143 | 5.7% | 1.13 | 10 | \$8,695 | 73% | 0.37 |
| PPL | High-Efficiency Ventilation System | Mfg: Food | Motors | New | end use | 139,143 | 5.7% | 1.13 | 10 | \$8,695 | 73% | 0.37 |
| PPL | High-Efficiency Ventilation System | Mfg: Food | Motors | ROB | end use | 139,143 | 5.7% | 1.13 | 10 | \$8,695 | 73% | 0.37 |
| PPL | Improved Controls - Motors | Mfg: Food | Motors | Existing | end use | 139,143 | 4.0% | 0.79 | 10 | \$605 | 73% | 2.33 |
| PPL | Improved Controls - Motors | Mfg: Food | Motors | New | end use | 139,143 | 4.0% | 0.79 | 10 | \$605 | 73% | 2.33 |
| PPL | Motor Management Plan | Mfg: Food | Motors | Existing | end use | 139,143 | 2.9% | 0.57 | 10 | \$284 | 73% | 2.99 |
| PPL | Motor Management Plan | Mfg: Food | Motors | New | end use | 139,143 | 2.9% | 0.57 | 10 | \$284 | 73% | 2.99 |
| PPL | Motors Other | Mfg: Food | Motors | Existing | end use | 139,143 | 1.4% | 0.28 | 15 | \$35 | 83% | 6.80 |
| PPL | Motors Other | Mfg: Food | Motors | New | end use | 139,143 | 1.4% | 0.28 | 15 | \$35 | 83% | 6.81 |
| PPL | Motors: Rewind 101-200 HP | Mfg: Food | Motors | Existing | end use | 139,143 | 0.6% | 0.11 | 10 | \$176 | 27% | 1.42 |
| PPL | Motors: Rewind 101-200 HP | Mfg: Food | Motors | New | end use | 139,143 | 0.6% | 0.11 | 10 | \$176 | 27% | 1.41 |
| PPL | Motors: Rewind 201-500 HP | Mfg: Food | Motors | Existing | end use | 139,143 | 0.6% | 0.11 | 8 | \$110 | 27% | 1.64 |
| PPL | Motors: Rewind 201-500 HP | Mfg: Food | Motors | New | end use | 139,143 | 0.6% | 0.11 | 8 | \$110 | 27% | 1.63 |
| PPL | Motors: Rewind 20-50 HP | Mfg: Food | Motors | Existing | end use | 139,143 | 1.0% | 0.20 | 11 | \$517 | 42% | 1.09 |
| PPL | Motors: Rewind 20-50 HP | Mfg: Food | Motors | New | end use | 139,143 | 1.0% | 0.20 | 11 | \$517 | 42% | 1.09 |
| PPL | Motors: Rewind 500+ HP | Mfg: Food | Motors | Existing | end use | 139,143 | 0.6% | 0.11 | 8 | \$79 | 11% | 2.05 |
| PPL | Motors: Rewind 500+ HP | Mfg: Food | Motors | New | end use | 139,143 | 0.6% | 0.11 | 8 | \$79 | 11% | 2.04 |
| PPL | Motors: Rewind 51-100 HP | Mfg: Food | Motors | Existing | end use | 139,143 | 0.6% | 0.12 | 9 | \$255 | 42% | 1.04 |
| PPL | Motors: Rewind 51-100 HP | Mfg: Food | Motors | New | end use | 139,143 | 0.6% | 0.12 | 9 | \$255 | 42% | 1.03 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|-----------|------------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Switch from Belt drive to Direct Drive | Mfg: Food | Motors | Early | end use | 139,143 | 7.5% | 1.49 | 12 | \$2,233 | 30% | 1.79 |
| PPL | Switch from Belt drive to Direct Drive | Mfg: Food | Motors | New | end use | 139,143 | 7.5% | 1.49 | 12 | \$2,233 | 30% | 1.79 |
| PPL | Switch from Belt drive to Direct Drive | Mfg: Food | Motors | ROB | end use | 139,143 | 7.5% | 1.49 | 12 | \$2,233 | 30% | 1.79 |
| PPL | Synchronous Belts | Mfg: Food | Motors | Early | end use | 139,143 | 1.2% | 0.23 | 10 | \$205 | 30% | 2.20 |
| PPL | Synchronous Belts | Mfg: Food | Motors | New | end use | 139,143 | 1.2% | 0.23 | 10 | \$205 | 30% | 2.20 |
| PPL | Synchronous Belts | Mfg: Food | Motors | ROB | end use | 139,143 | 1.2% | 0.23 | 10 | \$205 | 30% | 2.20 |
| PPL | Bldg Improvements | Mfg: Food | Other | Existing | end use | 95,383 | 16% | 1.84 | 15 | \$2,080 | 72% | 2.86 |
| PPL | Bldg Improvements | Mfg: Food | Other | New | end use | 95,383 | 16% | 1.84 | 15 | \$2,080 | 72% | 2.86 |
| PPL | Energy Project Management | Mfg: Food | Other | Existing | end use | 95,383 | 29% | 3.29 | 11 | \$3,405 | 63% | 2.30 |
| PPL | Energy Project Management | Mfg: Food | Other | New | end use | 95,383 | 29% | 3.29 | 11 | \$3,405 | 63% | 2.30 |
| PPL | Facility Energy Management | Mfg: Food | Other | Existing | end use | 95,383 | 1.9% | 0.21 | 2 | \$37 | 76% | 1.06 |
| PPL | Facility Energy Management | Mfg: Food | Other | New | end use | 95,383 | 1.9% | 0.21 | 2 | \$37 | 76% | 1.07 |
| PPL | Integrated Plant Energy Management | Mfg: Food | Other | Existing | end use | 95,383 | 50% | 5.68 | 11 | \$9,402 | 48% | 1.67 |
| PPL | Integrated Plant Energy Management | Mfg: Food | Other | New | end use | 95,383 | 50% | 5.68 | 11 | \$9,402 | 48% | 1.67 |
| PPL | Plant Energy Management | Mfg: Food | Other | Existing | end use | 95,383 | 12% | 1.36 | 10 | \$240 | 55% | 4.47 |
| PPL | Plant Energy Management | Mfg: Food | Other | New | end use | 95,383 | 12% | 1.36 | 10 | \$240 | 55% | 4.47 |
| PPL | Transformers | Mfg: Food | Other | Early | end use | 95,383 | 1.6% | 0.18 | 15 | \$305 | 34% | 2.17 |
| PPL | Transformers | Mfg: Food | Other | New | end use | 95,383 | 1.6% | 0.18 | 15 | \$305 | 34% | 2.19 |
| PPL | Transformers | Mfg: Food | Other | ROB | end use | 95,383 | 1.6% | 0.18 | 15 | \$305 | 34% | 2.17 |
| PPL | Air Compressor Demand Reduction | Mfg: Food | Process Air Compressor | Existing | end use | 1,568 | 26% | 0.05 | 10 | \$23 | 52% | 3.22 |
| PPL | Air Compressor Demand Reduction | Mfg: Food | Process Air Compressor | New | end use | 1,568 | 26% | 0.05 | 10 | \$23 | 52% | 3.22 |
| PPL | Air Compressor Equipment | Mfg: Food | Process Air Compressor | Early | end use | 1,568 | 39% | 0.08 | 10 | \$28 | 73% | 3.53 |
| PPL | Air Compressor Equipment | Mfg: Food | Process Air Compressor | New | end use | 1,568 | 39% | 0.08 | 10 | \$28 | 73% | 3.53 |
| PPL | Air Compressor Equipment | Mfg: Food | Process Air Compressor | ROB | end use | 1,568 | 39% | 0.08 | 10 | \$28 | 73% | 3.53 |
| PPL | Air Compressor Optimization | Mfg: Food | Process Air Compressor | Existing | end use | 1,568 | 39% | 0.08 | 10 | \$68 | 55% | 2.28 |
| PPL | Air Compressor Optimization | Mfg: Food | Process Air Compressor | New | end use | 1,568 | 39% | 0.08 | 10 | \$68 | 55% | 2.28 |
| PPL | Facility Energy Management | Mfg: Food | Process Air Compressor | Existing | end use | 1,568 | 1.9% | 0.00 | 2 | \$0.6 | 62% | 1.08 |
| PPL | Facility Energy Management | Mfg: Food | Process Air Compressor | New | end use | 1,568 | 1.9% | 0.00 | 2 | \$0.6 | 62% | 1.08 |
| PPL | HE Compressor motors | Mfg: Food | Process Air Compressor | Early | end use | 1,568 | 1.1% | 0.00 | 15 | \$5.9 | 73% | 1.44 |
| PPL | HE Compressor motors | Mfg: Food | Process Air Compressor | New | end use | 1,568 | 1.1% | 0.00 | 15 | \$5.9 | 73% | 1.43 |
| PPL | HE Compressor motors | Mfg: Food | Process Air Compressor | ROB | end use | 1,568 | 1.1% | 0.00 | 15 | \$5.9 | 73% | 1.44 |
| PPL | Improved Controls - Air Compressor | Mfg: Food | Process Air Compressor | Existing | end use | 1,568 | 41% | 0.08 | 10 | \$28 | 25% | 3.62 |
| PPL | Improved Controls - Air Compressor | Mfg: Food | Process Air Compressor | New | end use | 1,568 | 41% | 0.08 | 10 | \$28 | 25% | 3.62 |
| PPL | Low Pressure-drop Filters | Mfg: Food | Process Air Compressor | Existing | end use | 1,568 | 1.9% | 0.00 | 10 | \$18 | 61% | 0.60 |
| PPL | Low Pressure-drop Filters | Mfg: Food | Process Air Compressor | New | end use | 1,568 | 1.8% | 0.00 | 10 | \$18 | 61% | 0.60 |
| PPL | Outside Air Intake | Mfg: Food | Process Air Compressor | Existing | end use | 1,568 | 1.4% | 0.00 | 10 | \$10 | 48% | 0.78 |
| PPL | Outside Air Intake | Mfg: Food | Process Air Compressor | New | end use | 1,568 | 1.4% | 0.00 | 10 | \$10 | 48% | 0.78 |
| PPL | Receiver Capacity Addition | Mfg: Food | Process Air Compressor | Existing | end use | 1,568 | 6.0% | 0.01 | 10 | \$29 | 36% | 1.08 |
| PPL | Receiver Capacity Addition | Mfg: Food | Process Air Compressor | New | end use | 1,568 | 5.9% | 0.01 | 10 | \$29 | 36% | 1.08 |
| PPL | Refrigerated Cycling Dryers | Mfg: Food | Process Air Compressor | Early | end use | 1,568 | 1.7% | 0.00 | 10 | \$3.6 | 21% | 2.00 |
| PPL | Refrigerated Cycling Dryers | Mfg: Food | Process Air Compressor | New | end use | 1,568 | 1.7% | 0.00 | 10 | \$3.6 | 21% | 1.99 |
| PPL | Refrigerated Cycling Dryers | Mfg: Food | Process Air Compressor | ROB | end use | 1,568 | 1.7% | 0.00 | 10 | \$3.6 | 21% | 1.99 |
| PPL | VFD Controlled Compressor | Mfg: Food | Process Air Compressor | Early | end use | 1,568 | 24% | 0.05 | 10 | \$154 | 28% | 0.85 |
| PPL | VFD Controlled Compressor | Mfg: Food | Process Air Compressor | New | end use | 1,568 | 24% | 0.05 | 10 | \$154 | 28% | 0.85 |
| PPL | VFD Controlled Compressor | Mfg: Food | Process Air Compressor | ROB | end use | 1,568 | 24% | 0.05 | 10 | \$154 | 28% | 0.85 |
| PPL | Zero Loss Condensate Drain | Mfg: Food | Process Air Compressor | Early | end use | 1,568 | 1.9% | 0.00 | 10 | \$9.0 | 8% | 1.09 |
| PPL | Zero Loss Condensate Drain | Mfg: Food | Process Air Compressor | New | end use | 1,568 | 1.8% | 0.00 | 10 | \$9.0 | 8% | 1.09 |
| PPL | Zero Loss Condensate Drain | Mfg: Food | Process Air Compressor | ROB | end use | 1,568 | 1.9% | 0.00 | 10 | \$9.0 | 8% | 1.09 |
| PPL | Cooling Tower Optimization | Mfg: Food | Process Cooling | Existing | building | 521,888 | 20% | 37.36 | 10 | \$3,200 | 15% | 5.25 |
| PPL | Equipment: Chillers | Mfg: Food | Process Cooling | Early | end use | 521,888 | 18% | 19.45 | 15 | \$24,493 | 68% | 1.94 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---------------------------------------|-----------|-----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Equipment: Chillers | Mfg: Food | Process Cooling | New | end use | 521,888 | 18% | 19.45 | 15 | \$24,493 | 68% | 1.94 |
| PPL | Equipment: Chillers | Mfg: Food | Process Cooling | ROB | end use | 521,888 | 18% | 19.45 | 15 | \$24,493 | 68% | 1.94 |
| PPL | Facility Energy Management | Mfg: Food | Process Cooling | Existing | end use | 521,888 | 1.9% | 2.00 | 2 | \$201 | 86% | 1.19 |
| PPL | Facility Energy Management | Mfg: Food | Process Cooling | New | end use | 521,888 | 1.9% | 2.00 | 2 | \$201 | 86% | 1.19 |
| PPL | Food: Refrig Storage Tuneup | Mfg: Food | Process Cooling | Existing | end use | 521,888 | 14% | 15.62 | 3 | \$3,256 | 47% | 1.39 |
| PPL | Food: Refrig Storage Tuneup | Mfg: Food | Process Cooling | New | end use | 521,888 | 14% | 15.62 | 3 | \$3,256 | 47% | 1.39 |
| PPL | Fruit Storage Refer Retrofit | Mfg: Food | Process Cooling | Existing | end use | 521,888 | 38% | 41.58 | 10 | \$33,743 | 12% | 1.90 |
| PPL | Fruit Storage Refer Retrofit | Mfg: Food | Process Cooling | New | end use | 521,888 | 38% | 41.58 | 10 | \$33,743 | 12% | 1.90 |
| PPL | Fruit Storage Tuneup | Mfg: Food | Process Cooling | Existing | end use | 521,888 | 16% | 16.98 | 3 | \$3,539 | 12% | 1.39 |
| PPL | Fruit Storage Tuneup | Mfg: Food | Process Cooling | New | end use | 521,888 | 16% | 16.98 | 3 | \$3,539 | 12% | 1.39 |
| PPL | Improved Controls - Process Cooling | Mfg: Food | Process Cooling | Existing | end use | 521,888 | 6.0% | 6.53 | 10 | \$27,556 | 81% | 0.48 |
| PPL | Improved Controls - Process Cooling | Mfg: Food | Process Cooling | New | end use | 521,888 | 6.0% | 6.53 | 10 | \$27,556 | 81% | 0.48 |
| PPL | VFD on Cooling Tower Fan | Mfg: Food | Process Cooling | Early | motor | 521,888 | 21% | 32.84 | 15 | \$24,046 | 20% | 2.46 |
| PPL | VFD on Cooling Tower Fan | Mfg: Food | Process Cooling | New | motor | 521,888 | 22% | 32.84 | 15 | \$24,504 | 20% | 2.44 |
| PPL | VFD on Cooling Tower Fan | Mfg: Food | Process Cooling | ROB | motor | 521,888 | 22% | 32.84 | 15 | \$24,504 | 20% | 2.44 |
| PPL | Improved Controls - Process Heating | Mfg: Food | Process Heating | Existing | end use | 138,660 | 17% | 3.26 | 10 | \$1,593 | 77% | 3.04 |
| PPL | Improved Controls - Process Heating | Mfg: Food | Process Heating | New | end use | 138,660 | 17% | 3.26 | 10 | \$1,593 | 77% | 3.04 |
| PPL | Process Heat O&M | Mfg: Food | Process Heating | Existing | end use | 138,660 | 16% | 3.08 | 2 | \$963 | 77% | 0.88 |
| PPL | Process Heat O&M | Mfg: Food | Process Heating | New | end use | 138,660 | 16% | 3.08 | 2 | \$963 | 77% | 0.88 |
| PPL | Facility Energy Management | Mfg: Food | Process Other | Existing | end use | 13,360 | 1.9% | 0.03 | 2 | \$5.1 | 73% | 1.10 |
| PPL | Facility Energy Management | Mfg: Food | Process Other | New | end use | 13,360 | 1.9% | 0.03 | 2 | \$5.1 | 73% | 1.10 |
| PPL | Adjustable speed drive on compressors | Mfg: Food | Process Refrigeration | Early | end use | 268,089 | 12% | 4.59 | 10 | \$4,959 | 81% | 1.97 |
| PPL | Adjustable speed drive on compressors | Mfg: Food | Process Refrigeration | New | end use | 268,089 | 12% | 4.59 | 10 | \$4,959 | 81% | 1.97 |
| PPL | Adjustable speed drive on compressors | Mfg: Food | Process Refrigeration | ROB | end use | 268,089 | 12% | 4.59 | 10 | \$4,959 | 81% | 1.97 |
| PPL | Cold Storage Retrofit | Mfg: Food | Process Refrigeration | Existing | end use | 268,089 | 18% | 7.16 | 10 | \$8,360 | 73% | 1.75 |
| PPL | Cold Storage Retrofit | Mfg: Food | Process Refrigeration | New | end use | 268,089 | 18% | 7.16 | 10 | \$8,360 | 73% | 1.75 |
| PPL | Cold Storage Tuneup | Mfg: Food | Process Refrigeration | Existing | end use | 268,089 | 13% | 5.30 | 3 | \$2,045 | 73% | 1.15 |
| PPL | Cold Storage Tuneup | Mfg: Food | Process Refrigeration | New | end use | 268,089 | 13% | 5.30 | 3 | \$2,045 | 73% | 1.15 |
| PPL | Cooling Tower Optimization | Mfg: Food | Process Refrigeration | Existing | building | 268,089 | 20% | 19.19 | 10 | \$1,644 | 15% | 5.25 |
| PPL | Food: Cooling and Storage | Mfg: Food | Process Refrigeration | Existing | end use | 268,089 | 15% | 5.90 | 10 | \$12,064 | 73% | 1.14 |
| PPL | Food: Cooling and Storage | Mfg: Food | Process Refrigeration | New | end use | 268,089 | 15% | 5.90 | 10 | \$12,064 | 73% | 1.14 |
| PPL | Optimization of operating parameters | Mfg: Food | Process Refrigeration | Existing | end use | 268,089 | 13% | 5.14 | 3 | \$2,165 | 73% | 1.11 |
| PPL | Optimization of operating parameters | Mfg: Food | Process Refrigeration | New | end use | 268,089 | 13% | 5.14 | 3 | \$2,165 | 73% | 1.11 |
| PPL | Synchronous Belts | Mfg: Food | Process Refrigeration | Early | end use | 268,089 | 1.2% | 0.46 | 10 | \$395 | 81% | 2.29 |
| PPL | Synchronous Belts | Mfg: Food | Process Refrigeration | New | end use | 268,089 | 1.2% | 0.46 | 10 | \$395 | 81% | 2.29 |
| PPL | Synchronous Belts | Mfg: Food | Process Refrigeration | ROB | end use | 268,089 | 1.2% | 0.46 | 10 | \$395 | 81% | 2.29 |
| PPL | VFD on Cooling Tower Fan | Mfg: Food | Process Refrigeration | Early | motor | 268,089 | 21% | 16.87 | 15 | \$12,352 | 20% | 2.46 |
| PPL | VFD on Cooling Tower Fan | Mfg: Food | Process Refrigeration | New | motor | 268,089 | 22% | 16.87 | 15 | \$12,588 | 20% | 2.44 |
| PPL | VFD on Cooling Tower Fan | Mfg: Food | Process Refrigeration | ROB | motor | 268,089 | 22% | 16.87 | 15 | \$12,588 | 20% | 2.44 |
| PPL | Facility Energy Management | Mfg: Food | Pumps | Existing | end use | 779,975 | 1.9% | 1.87 | 2 | \$301 | 65% | 1.08 |
| PPL | Facility Energy Management | Mfg: Food | Pumps | New | end use | 779,975 | 1.9% | 1.87 | 2 | \$301 | 65% | 1.08 |
| PPL | HE Motors | Mfg: Food | Pumps | Early | end use | 779,975 | 2.0% | 2.08 | 15 | \$4,643 | 69% | 1.69 |
| PPL | HE Motors | Mfg: Food | Pumps | New | end use | 779,975 | 2.0% | 2.08 | 15 | \$4,643 | 69% | 1.69 |
| PPL | HE Motors | Mfg: Food | Pumps | ROB | end use | 779,975 | 2.0% | 2.08 | 15 | \$4,643 | 69% | 1.69 |
| PPL | Motor rewinds | Mfg: Food | Pumps | Existing | end use | 779,975 | 0.6% | 0.60 | 9 | \$1,109 | 11% | 1.22 |
| PPL | Motor rewinds | Mfg: Food | Pumps | New | end use | 779,975 | 0.6% | 0.60 | 9 | \$1,109 | 11% | 1.22 |
| PPL | Pump Equipment Upgrade | Mfg: Food | Pumps | Early | end use | 779,975 | 20% | 20.30 | 12 | \$19,499 | 77% | 2.57 |
| PPL | Pump Equipment Upgrade | Mfg: Food | Pumps | New | end use | 779,975 | 20% | 20.30 | 12 | \$19,499 | 77% | 2.57 |
| PPL | Pump Equipment Upgrade | Mfg: Food | Pumps | ROB | end use | 779,975 | 20% | 20.30 | 12 | \$19,499 | 77% | 2.57 |
| PPL | Pump System Optimization | Mfg: Food | Pumps | Existing | end use | 779,975 | 8.7% | 8.82 | 12 | \$14,281 | 36% | 1.74 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|-------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Pump System Optimization | Mfg: Food | Pumps | New | end use | 779,975 | 8.7% | 8.82 | 12 | \$14,281 | 36% | 1.74 |
| PPL | Synchronous Belts | Mfg: Food | Pumps | Early | end use | 779,975 | 1.2% | 1.18 | 10 | \$1,149 | 57% | 2.16 |
| PPL | Synchronous Belts | Mfg: Food | Pumps | New | end use | 779,975 | 1.2% | 1.18 | 10 | \$1,149 | 57% | 2.16 |
| PPL | Synchronous Belts | Mfg: Food | Pumps | ROB | end use | 779,975 | 1.2% | 1.18 | 10 | \$1,149 | 57% | 2.16 |
| PPL | Circulating Fans | Mfg: Metals | Fans | Early | end use | 245,967 | 5.0% | 1.46 | 10 | \$1,497 | 68% | 2.28 |
| PPL | Circulating Fans | Mfg: Metals | Fans | New | end use | 245,967 | 5.0% | 1.46 | 10 | \$1,497 | 68% | 2.28 |
| PPL | Circulating Fans | Mfg: Metals | Fans | ROB | end use | 245,967 | 5.0% | 1.46 | 10 | \$1,497 | 68% | 2.28 |
| PPL | Facility Energy Management | Mfg: Metals | Fans | Existing | end use | 245,967 | 1.9% | 0.54 | 2 | \$95 | 77% | 1.07 |
| PPL | Facility Energy Management | Mfg: Metals | Fans | New | end use | 245,967 | 1.9% | 0.54 | 2 | \$95 | 77% | 1.07 |
| PPL | HE Motors | Mfg: Metals | Fans | Early | end use | 245,967 | 2.0% | 0.60 | 15 | \$1,464 | 77% | 1.73 |
| PPL | HE Motors | Mfg: Metals | Fans | New | end use | 245,967 | 2.0% | 0.60 | 15 | \$1,464 | 77% | 1.73 |
| PPL | HE Motors | Mfg: Metals | Fans | ROB | end use | 245,967 | 2.0% | 0.60 | 15 | \$1,464 | 77% | 1.73 |
| PPL | Improved Controls - Fans | Mfg: Metals | Fans | Existing | end use | 245,967 | 7.1% | 2.08 | 10 | \$954 | 60% | 3.27 |
| PPL | Improved Controls - Fans | Mfg: Metals | Fans | New | end use | 245,967 | 7.1% | 2.08 | 10 | \$954 | 60% | 3.27 |
| PPL | Properly Sized Fans | Mfg: Metals | Fans | Early | end use | 245,967 | 13% | 3.85 | 10 | \$5,038 | 41% | 1.93 |
| PPL | Properly Sized Fans | Mfg: Metals | Fans | New | end use | 245,967 | 13% | 3.85 | 10 | \$5,038 | 41% | 1.93 |
| PPL | Properly Sized Fans | Mfg: Metals | Fans | ROB | end use | 245,967 | 13% | 3.85 | 10 | \$5,038 | 41% | 1.93 |
| PPL | Synchronous Belts | Mfg: Metals | Fans | Early | end use | 245,967 | 1.2% | 0.34 | 10 | \$362 | 41% | 2.22 |
| PPL | Synchronous Belts | Mfg: Metals | Fans | New | end use | 245,967 | 1.2% | 0.34 | 10 | \$362 | 41% | 2.22 |
| PPL | Synchronous Belts | Mfg: Metals | Fans | ROB | end use | 245,967 | 1.2% | 0.34 | 10 | \$362 | 41% | 2.22 |
| PPL | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Metals | HVAC | Early | unit (ton) | 143,280 | 9.2% | 3.41 | 15 | \$26,100 | 28% | 0.34 |
| PPL | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Metals | HVAC | New | unit (ton) | 143,280 | 4.1% | 1.53 | 15 | \$6,324 | 28% | 0.61 |
| PPL | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Metals | HVAC | ROB | unit (ton) | 143,280 | 4.1% | 1.53 | 15 | \$6,324 | 28% | 0.61 |
| PPL | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Metals | HVAC | Early | unit (ton) | 143,280 | 12% | 4.61 | 15 | \$30,769 | 28% | 0.38 |
| PPL | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Metals | HVAC | New | unit (ton) | 143,280 | 7.7% | 2.86 | 15 | \$13,319 | 28% | 0.54 |
| PPL | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Metals | HVAC | ROB | unit (ton) | 143,280 | 7.7% | 2.86 | 15 | \$13,319 | 28% | 0.54 |
| PPL | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Metals | HVAC | Early | unit (ton) | 143,280 | 15% | 5.66 | 15 | \$35,439 | 29% | 0.41 |
| PPL | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Metals | HVAC | New | unit (ton) | 143,280 | 11% | 4.02 | 15 | \$20,314 | 29% | 0.50 |
| PPL | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Metals | HVAC | ROB | unit (ton) | 143,280 | 11% | 4.02 | 15 | \$20,314 | 29% | 0.50 |
| PPL | >760k min 10.2 EER Air Conditioner | Mfg: Metals | HVAC | Early | unit (ton) | 143,280 | 2.1% | 0.79 | 15 | \$45,452 | 35% | 0.05 |
| PPL | >760k min 10.2 EER Air Conditioner | Mfg: Metals | HVAC | New | unit (ton) | 143,280 | 2.8% | 1.05 | 15 | \$4,108 | 35% | 0.64 |
| PPL | >760k min 10.2 EER Air Conditioner | Mfg: Metals | HVAC | ROB | unit (ton) | 143,280 | 2.8% | 1.05 | 15 | \$4,108 | 35% | 0.64 |
| PPL | 135-240k min 12 EER Air Conditioner | Mfg: Metals | HVAC | Early | unit (ton) | 143,280 | 10% | 3.89 | 15 | \$49,217 | 35% | 0.21 |
| PPL | 135-240k min 12 EER Air Conditioner | Mfg: Metals | HVAC | New | unit (ton) | 143,280 | 5.8% | 2.14 | 15 | \$5,811 | 35% | 0.90 |
| PPL | 135-240k min 12 EER Air Conditioner | Mfg: Metals | HVAC | ROB | unit (ton) | 143,280 | 5.8% | 2.14 | 15 | \$5,811 | 35% | 0.90 |
| PPL | 240k-760k min 11 EER Air Conditioner | Mfg: Metals | HVAC | Early | unit (ton) | 143,280 | 5.2% | 1.94 | 15 | \$45,480 | 35% | 0.11 |
| PPL | 240k-760k min 11 EER Air Conditioner | Mfg: Metals | HVAC | New | unit (ton) | 143,280 | 5.3% | 1.98 | 15 | \$4,872 | 35% | 0.98 |
| PPL | 240k-760k min 11 EER Air Conditioner | Mfg: Metals | HVAC | ROB | unit (ton) | 143,280 | 5.3% | 1.98 | 15 | \$4,872 | 35% | 0.98 |
| PPL | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Metals | HVAC | Early | unit (ton) | 143,280 | 9.7% | 3.61 | 15 | \$50,394 | 35% | 0.19 |
| PPL | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Metals | HVAC | New | unit (ton) | 143,280 | 3.8% | 1.43 | 15 | \$7,190 | 35% | 0.50 |
| PPL | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Metals | HVAC | ROB | unit (ton) | 143,280 | 3.8% | 1.43 | 15 | \$7,190 | 35% | 0.50 |
| PPL | Ceiling Insualtions (Going upto R 20) | Mfg: Metals | HVAC | Existing | building | 143,280 | 5.9% | 2.13 | 15 | \$434,115 | 71% | 0.01 |
| PPL | Ceiling Insualtions (Going upto R 20) | Mfg: Metals | HVAC | New | building | 143,280 | 3.7% | 1.33 | 15 | \$412,639 | 94% | 0.01 |
| PPL | Chiller Tuneup/Diagnostics | Mfg: Metals | HVAC | Existing | building | 143,280 | 8.0% | 4.20 | 10 | \$365,857 | 59% | 0.02 |
| PPL | Chiller Tuneup/Diagnostics | Mfg: Metals | HVAC | New | building | 143,280 | 8.0% | 4.21 | 10 | \$365,857 | 59% | 0.02 |
| PPL | Cooling Tower Optimization | Mfg: Metals | HVAC | Existing | building | 143,280 | 20% | 10.26 | 10 | \$879 | 12% | 5.25 |
| PPL | Duct Insulation, Add R8 | Mfg: Metals | HVAC | Existing | building | 143,280 | 1.5% | 0.46 | 15 | \$1,138 | 18% | 1.10 |
| PPL | Duct Insulation, Add R8 | Mfg: Metals | HVAC | New | building | 143,280 | 1.5% | 0.46 | 15 | \$1,138 | 9% | 1.10 |
| PPL | Ductless Heat Pump | Mfg: Metals | HVAC | Early | heat pump | 143,280 | 0.8% | 0.27 | 15 | \$11,380 | 83% | 0.07 |
| PPL | Ductless Heat Pump | Mfg: Metals | HVAC | New | heat pump | 143,280 | 0.4% | 0.14 | 15 | \$3,305 | 83% | 0.13 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|-------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Ductless Heat Pump | Mfg: Metals | HVAC | ROB | heat pump | 143,280 | 0.4% | 0.14 | 15 | \$3,305 | 83% | 0.13 |
| PPL | DX Coil Cleaning | Mfg: Metals | HVAC | Existing | building | 143,280 | 13% | 6.57 | 1 | \$1,373 | 73% | 0.48 |
| PPL | DX Coil Cleaning | Mfg: Metals | HVAC | New | building | 143,280 | 13% | 6.57 | 1 | \$1,373 | 73% | 0.48 |
| PPL | Efficient Unit Heating System | Mfg: Metals | HVAC | Early | heater | 143,280 | 6.9% | 0.08 | 15 | \$7,718 | 83% | 0.62 |
| PPL | Efficient Unit Heating System | Mfg: Metals | HVAC | New | heater | 143,280 | 4.0% | 0.05 | 15 | \$5,265 | 83% | 0.53 |
| PPL | Efficient Unit Heating System | Mfg: Metals | HVAC | ROB | heater | 143,280 | 4.0% | 0.05 | 15 | \$5,265 | 83% | 0.53 |
| PPL | Ground Source Heat Pump (Closed Loop) | Mfg: Metals | HVAC | Early | heat pump | 143,280 | 1.3% | 0.42 | 15 | \$23,629 | 19% | 0.05 |
| PPL | Ground Source Heat Pump (Closed Loop) | Mfg: Metals | HVAC | New | heat pump | 143,280 | 1.0% | 0.33 | 15 | \$9,330 | 19% | 0.10 |
| PPL | Ground Source Heat Pump (Closed Loop) | Mfg: Metals | HVAC | ROB | heat pump | 143,280 | 1.0% | 0.33 | 15 | \$9,330 | 19% | 0.10 |
| PPL | Ground Source Heat Pump (Open Loop) | Mfg: Metals | HVAC | Early | heat pump | 143,280 | 1.3% | 0.42 | 15 | \$15,133 | 19% | 0.08 |
| PPL | Ground Source Heat Pump (Open Loop) | Mfg: Metals | HVAC | New | heat pump | 143,280 | 1.0% | 0.33 | 15 | \$321 | 19% | 2.32 |
| PPL | Ground Source Heat Pump (Open Loop) | Mfg: Metals | HVAC | ROB | heat pump | 143,280 | 1.0% | 0.33 | 15 | \$321 | 19% | 2.32 |
| PPL | HE Air Cooled Chiller, 100 Tons | Mfg: Metals | HVAC | Early | unit (ton) | 143,280 | 1.5% | 0.48 | 15 | \$168,448 | 89% | 0.01 |
| PPL | HE Air Cooled Chiller, 100 Tons | Mfg: Metals | HVAC | New | unit (ton) | 143,280 | 0.4% | 0.13 | 15 | \$24,540 | 89% | 0.02 |
| PPL | HE Air Cooled Chiller, 100 Tons | Mfg: Metals | HVAC | ROB | unit (ton) | 143,280 | 0.4% | 0.13 | 15 | \$24,540 | 89% | 0.02 |
| PPL | HE Air Cooled Chiller, 150 Tons | Mfg: Metals | HVAC | Early | unit (ton) | 143,280 | 1.5% | 0.47 | 15 | \$145,501 | 89% | 0.01 |
| PPL | HE Air Cooled Chiller, 150 Tons | Mfg: Metals | HVAC | New | unit (ton) | 143,280 | 0.3% | 0.10 | 15 | \$12,051 | 89% | 0.02 |
| PPL | HE Air Cooled Chiller, 150 Tons | Mfg: Metals | HVAC | ROB | unit (ton) | 143,280 | 0.3% | 0.10 | 15 | \$12,051 | 89% | 0.02 |
| PPL | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Metals | HVAC | Early | heat pump | 143,280 | 1.4% | 0.44 | 12 | \$6,168 | 81% | 0.17 |
| PPL | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Metals | HVAC | Early | heat pump | 143,280 | 1.1% | 0.36 | 12 | \$4,506 | 81% | 0.20 |
| PPL | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Metals | HVAC | New | heat pump | 143,280 | 1.0% | 0.33 | 12 | \$2,754 | 81% | 0.29 |
| PPL | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Metals | HVAC | New | heat pump | 143,280 | 0.8% | 0.24 | 12 | \$963 | 81% | 0.58 |
| PPL | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Metals | HVAC | ROB | heat pump | 143,280 | 1.0% | 0.33 | 12 | \$2,754 | 81% | 0.29 |
| PPL | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Metals | HVAC | ROB | heat pump | 143,280 | 0.8% | 0.24 | 12 | \$963 | 81% | 0.58 |
| PPL | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Metals | HVAC | Early | unit (ton) | 143,280 | 1.6% | 0.52 | 15 | \$13,365 | 89% | 0.11 |
| PPL | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Metals | HVAC | New | unit (ton) | 143,280 | 0.9% | 0.30 | 15 | \$4,445 | 89% | 0.20 |
| PPL | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Metals | HVAC | ROB | unit (ton) | 143,280 | 0.9% | 0.30 | 15 | \$4,445 | 89% | 0.20 |
| PPL | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Metals | HVAC | Early | unit (ton) | 143,280 | 1.4% | 0.46 | 15 | \$13,053 | 89% | 0.10 |
| PPL | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Metals | HVAC | New | unit (ton) | 143,280 | 1.0% | 0.32 | 15 | \$2,549 | 89% | 0.36 |
| PPL | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Metals | HVAC | ROB | unit (ton) | 143,280 | 1.4% | 0.46 | 15 | \$2,342 | 89% | 0.55 |
| PPL | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Metals | HVAC | Early | unit (ton) | 143,280 | 1.4% | 0.45 | 15 | \$15,449 | 89% | 0.09 |
| PPL | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Metals | HVAC | New | unit (ton) | 143,280 | 0.9% | 0.29 | 15 | \$6,505 | 89% | 0.13 |
| PPL | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Metals | HVAC | ROB | unit (ton) | 143,280 | 1.4% | 0.45 | 15 | \$5,887 | 89% | 0.22 |
| PPL | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Metals | HVAC | Early | unit (ton) | 143,280 | 1.4% | 0.45 | 15 | \$14,882 | 89% | 0.09 |
| PPL | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Metals | HVAC | New | unit (ton) | 143,280 | 0.9% | 0.29 | 15 | \$5,654 | 89% | 0.15 |
| PPL | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Metals | HVAC | ROB | unit (ton) | 143,280 | 1.4% | 0.45 | 15 | \$5,117 | 89% | 0.26 |
| PPL | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Metals | HVAC | Early | unit (ton) | 143,280 | 1.8% | 0.59 | 15 | \$16,035 | 89% | 0.11 |
| PPL | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Metals | HVAC | New | unit (ton) | 143,280 | 0.6% | 0.18 | 15 | \$9,929 | 89% | 0.05 |
| PPL | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Metals | HVAC | ROB | unit (ton) | 143,280 | 1.8% | 0.59 | 15 | \$7,710 | 89% | 0.22 |
| PPL | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Metals | HVAC | Early | unit (ton) | 143,280 | 2.2% | 0.70 | 15 | \$14,749 | 89% | 0.14 |
| PPL | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Metals | HVAC | New | unit (ton) | 143,280 | 0.8% | 0.25 | 15 | \$5,918 | 89% | 0.13 |
| PPL | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Metals | HVAC | ROB | unit (ton) | 143,280 | 0.8% | 0.25 | 15 | \$5,918 | 89% | 0.13 |
| PPL | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Metals | HVAC | Early | unit (ton) | 143,280 | 2.4% | 0.78 | 15 | \$12,500 | 89% | 0.18 |
| PPL | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Metals | HVAC | New | unit (ton) | 143,280 | 0.9% | 0.29 | 15 | \$3,145 | 89% | 0.27 |
| PPL | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Metals | HVAC | ROB | unit (ton) | 143,280 | 2.4% | 0.78 | 15 | \$2,243 | 89% | 0.94 |
| PPL | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Metals | HVAC | Early | unit (ton) | 143,280 | 1.8% | 0.59 | 15 | \$12,375 | 89% | 0.14 |
| PPL | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Metals | HVAC | New | unit (ton) | 143,280 | 0.7% | 0.22 | 15 | \$3,465 | 89% | 0.19 |
| PPL | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Metals | HVAC | ROB | unit (ton) | 143,280 | 1.8% | 0.59 | 15 | \$2,745 | 89% | 0.60 |
| PPL | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Metals | HVAC | Existing | building | 143,280 | 2.9% | 0.84 | 5 | \$1,520 | 55% | 0.57 |
| PPL | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Metals | HVAC | New | building | 143,280 | 0.6% | 0.33 | 5 | \$912 | 51% | 0.28 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---------------------------------------|-------------|----------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Improved Controls - HVAC | Mfg: Metals | HVAC | Existing | end use | 143,280 | 21% | 4.30 | 10 | \$1,506 | 76% | 3.49 |
| PPL | Improved Controls - HVAC | Mfg: Metals | HVAC | New | end use | 143,280 | 21% | 4.30 | 10 | \$1,506 | 76% | 3.49 |
| PPL | Outside Air Economizer | Mfg: Metals | HVAC | Existing | building | 143,280 | 1.1% | 0.40 | 10 | \$526,437 | 82% | 0.00 |
| PPL | Outside Air Economizer | Mfg: Metals | HVAC | New | building | 143,280 | 1.1% | 0.40 | 10 | \$526,437 | 82% | 0.00 |
| PPL | Recommissioning | Mfg: Metals | HVAC | Existing | end use | 143,280 | 5.0% | 1.03 | 10 | \$196 | 88% | 4.30 |
| PPL | Recommissioning | Mfg: Metals | HVAC | New | end use | 143,280 | 5.0% | 1.03 | 10 | \$196 | 88% | 4.30 |
| PPL | Room AC (with louvered sides) | Mfg: Metals | HVAC | Early | unit (ton) | 143,280 | 7.7% | 2.49 | 9 | \$11,230 | 78% | 0.39 |
| PPL | Room AC (with louvered sides) | Mfg: Metals | HVAC | New | unit (ton) | 143,280 | 2.6% | 0.83 | 9 | \$615 | 78% | 1.77 |
| PPL | Room AC (with louvered sides) | Mfg: Metals | HVAC | ROB | unit (ton) | 143,280 | 2.6% | 0.83 | 9 | \$615 | 78% | 1.77 |
| PPL | Variable Refrigerant Flow Heat Pump | Mfg: Metals | HVAC | New | measure | 143,280 | 0.1% | 0.04 | 13 | \$1,060 | 43% | 0.09 |
| PPL | Variable Refrigerant Flow Heat Pump | Mfg: Metals | HVAC | ROB | measure | 143,280 | 0.1% | 0.04 | 13 | \$1,060 | 43% | 0.09 |
| PPL | VFD on Cooling Tower Fan | Mfg: Metals | HVAC | Early | motor | 143,280 | 21% | 9.02 | 15 | \$6,602 | 20% | 2.52 |
| PPL | VFD on Cooling Tower Fan | Mfg: Metals | HVAC | New | motor | 143,280 | 22% | 9.02 | 15 | \$6,727 | 15% | 2.51 |
| PPL | VFD on Cooling Tower Fan | Mfg: Metals | HVAC | ROB | motor | 143,280 | 22% | 9.02 | 15 | \$6,727 | 15% | 2.51 |
| PPL | Wall Insualtions (Going upto R 21) | Mfg: Metals | HVAC | Existing | building | 143,280 | 19% | 6.85 | 15 | \$101,924 | 26% | 0.18 |
| PPL | Wall Insualtions (Going upto R 21) | Mfg: Metals | HVAC | New | building | 143,280 | 0.6% | 0.22 | 15 | \$78,181 | 94% | 0.01 |
| PPL | Water Source Heat Pump (4 ton) | Mfg: Metals | HVAC | Early | heat pump | 143,280 | 1.5% | 0.50 | 15 | \$24,469 | 6% | 0.06 |
| PPL | Water Source Heat Pump (4 ton) | Mfg: Metals | HVAC | New | heat pump | 143,280 | 1.1% | 0.36 | 15 | \$11,926 | 6% | 0.09 |
| PPL | Water Source Heat Pump (4 ton) | Mfg: Metals | HVAC | ROB | heat pump | 143,280 | 1.1% | 0.36 | 15 | \$11,926 | 6% | 0.09 |
| PPL | Efficient Metal Halide (High Bay) | Mfg: Metals | Lighting | Early | end use | 141,991 | 42% | 0.00 | 9 | \$22,188 | 53% | 0.76 |
| PPL | Efficient Metal Halide (High Bay) | Mfg: Metals | Lighting | New | end use | 141,991 | 41% | 0.00 | 13 | \$592,642 | 61% | 0.05 |
| PPL | Efficient Metal Halide (High Bay) | Mfg: Metals | Lighting | ROB | end use | 141,991 | 41% | 0.00 | 13 | \$452,930 | 61% | 0.06 |
| PPL | Induction (High Bay) | Mfg: Metals | Lighting | Early | end use | 141,991 | 94% | 0.00 | 13 | \$66,018 | 95% | 0.85 |
| PPL | Induction (High Bay) | Mfg: Metals | Lighting | New | end use | 141,991 | 94% | 0.00 | 13 | \$61,809 | 95% | 0.90 |
| PPL | Induction (High Bay) | Mfg: Metals | Lighting | ROB | end use | 141,991 | 94% | 0.00 | 13 | \$46,977 | 95% | 1.14 |
| PPL | LED (High Bay) | Mfg: Metals | Lighting | Early | end use | 141,991 | 69% | 0.00 | 14 | \$77,713 | 95% | 0.59 |
| PPL | LED (High Bay) | Mfg: Metals | Lighting | New | end use | 141,991 | 55% | 0.00 | 14 | \$86,259 | 95% | 0.43 |
| PPL | LED (High Bay) | Mfg: Metals | Lighting | ROB | end use | 141,991 | 59% | 0.00 | 14 | \$56,835 | 95% | 0.68 |
| PPL | Lighting Controls | Mfg: Metals | Lighting | Existing | end use | 141,991 | 20% | 0.00 | 6 | \$532,307 | 16% | 0.01 |
| PPL | Lighting Controls | Mfg: Metals | Lighting | New | end use | 141,991 | 12% | 0.00 | 10 | \$708,142 | 11% | 0.01 |
| PPL | Linear Fluorescent (High Bay) | Mfg: Metals | Lighting | Early | end use | 141,991 | 17% | 0.00 | 14 | \$16,247 | 98% | 0.68 |
| PPL | Linear Fluorescent (High Bay) | Mfg: Metals | Lighting | New | end use | 141,991 | 13% | 0.00 | 14 | \$5,152 | 91% | 1.44 |
| PPL | Linear Fluorescent (High Bay) | Mfg: Metals | Lighting | ROB | end use | 141,991 | 13% | 0.00 | 14 | \$3,299 | 91% | 2.07 |
| PPL | Metal Halide (High Bay) | Mfg: Metals | Lighting | Early | end use | 141,991 | 62% | 0.00 | 13 | \$97,610 | 38% | 0.41 |
| PPL | Metal Halide (High Bay) | Mfg: Metals | Lighting | New | end use | 141,991 | 73% | 0.00 | 13 | \$23,337 | 38% | 1.61 |
| PPL | Metal Halide (High Bay) | Mfg: Metals | Lighting | ROB | end use | 141,991 | 73% | 0.00 | 13 | \$17,736 | 38% | 1.97 |
| PPL | Screw Base CFL | Mfg: Metals | Lighting | Early | end use | 141,991 | 80% | 0.00 | 7 | \$38,576 | 17% | 0.66 |
| PPL | Screw Base CFL | Mfg: Metals | Lighting | New | end use | 141,991 | 73% | 0.00 | 9 | \$31,526 | 18% | 0.90 |
| PPL | Screw Base CFL | Mfg: Metals | Lighting | ROB | end use | 141,991 | 73% | 0.00 | 9 | \$26,387 | 17% | 1.03 |
| PPL | Screw Base LED | Mfg: Metals | Lighting | Early | end use | 141,991 | 76% | 0.00 | 9 | \$23,674 | 21% | 1.21 |
| PPL | Screw Base LED | Mfg: Metals | Lighting | New | end use | 141,991 | 77% | 0.00 | 9 | \$13,188 | 20% | 1.84 |
| PPL | Screw Base LED | Mfg: Metals | Lighting | ROB | end use | 141,991 | 77% | 0.00 | 9 | \$10,469 | 21% | 2.12 |
| PPL | T8 High Performance Linear Florescent | Mfg: Metals | Lighting | Early | end use | 141,991 | 36% | 0.00 | 14 | \$13,587 | 71% | 1.52 |
| PPL | T8 High Performance Linear Florescent | Mfg: Metals | Lighting | New | end use | 141,991 | 26% | 0.00 | 14 | \$4,861 | 76% | 2.56 |
| PPL | T8 High Performance Linear Florescent | Mfg: Metals | Lighting | ROB | end use | 141,991 | 26% | 0.00 | 14 | \$3,695 | 76% | 3.03 |
| PPL | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Metals | Motors | Early | end use | 77,656 | 0.9% | 0.10 | 15 | \$1,186 | 81% | 0.35 |
| PPL | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Metals | Motors | New | end use | 77,656 | 0.9% | 0.10 | 15 | \$1,186 | 81% | 0.35 |
| PPL | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Metals | Motors | ROB | end use | 77,656 | 0.9% | 0.10 | 15 | \$1,186 | 81% | 0.36 |
| PPL | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Metals | Motors | Early | end use | 77,656 | 0.7% | 0.08 | 15 | \$720 | 73% | 0.47 |
| PPL | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Metals | Motors | New | end use | 77,656 | 0.8% | 0.08 | 15 | \$720 | 73% | 0.47 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|-------------|---------|----------|---------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Metals | Motors | ROB | end use | 77,656 | 0.7% | 0.08 | 15 | \$720 | 73% | 0.47 |
| PPL | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Metals | Motors | Early | end use | 77,656 | 0.4% | 0.05 | 15 | \$276 | 81% | 0.71 |
| PPL | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Metals | Motors | New | end use | 77,656 | 0.5% | 0.05 | 15 | \$276 | 81% | 0.74 |
| PPL | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Metals | Motors | ROB | end use | 77,656 | 0.5% | 0.05 | 15 | \$276 | 81% | 0.73 |
| PPL | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Metals | Motors | Early | end use | 77,656 | 0.4% | 0.04 | 15 | \$91 | 73% | 1.68 |
| PPL | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Metals | Motors | New | end use | 77,656 | 0.4% | 0.04 | 15 | \$91 | 73% | 1.69 |
| PPL | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Metals | Motors | ROB | end use | 77,656 | 0.4% | 0.04 | 15 | \$91 | 73% | 1.71 |
| PPL | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Metals | Motors | Early | end use | 77,656 | 0.9% | 0.10 | 15 | \$137 | 47% | 2.38 |
| PPL | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Metals | Motors | New | end use | 77,656 | 0.9% | 0.10 | 15 | \$137 | 47% | 2.39 |
| PPL | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Metals | Motors | ROB | end use | 77,656 | 0.9% | 0.10 | 15 | \$137 | 47% | 2.38 |
| PPL | Facility Energy Management | Mfg: Metals | Motors | Existing | end use | 77,656 | 1.9% | 0.20 | 2 | \$30 | 77% | 1.10 |
| PPL | Facility Energy Management | Mfg: Metals | Motors | New | end use | 77,656 | 1.8% | 0.20 | 2 | \$30 | 77% | 1.10 |
| PPL | HE Motors | Mfg: Metals | Motors | Early | end use | 77,656 | 2.0% | 0.23 | 15 | \$462 | 38% | 1.71 |
| PPL | HE Motors | Mfg: Metals | Motors | New | end use | 77,656 | 2.0% | 0.23 | 15 | \$462 | 38% | 1.71 |
| PPL | HE Motors | Mfg: Metals | Motors | ROB | end use | 77,656 | 2.0% | 0.23 | 15 | \$462 | 38% | 1.71 |
| PPL | High-Efficiency Ventilation System | Mfg: Metals | Motors | Early | end use | 77,656 | 5.7% | 0.63 | 10 | \$4,853 | 73% | 0.37 |
| PPL | High-Efficiency Ventilation System | Mfg: Metals | Motors | New | end use | 77,656 | 5.7% | 0.63 | 10 | \$4,853 | 73% | 0.37 |
| PPL | High-Efficiency Ventilation System | Mfg: Metals | Motors | ROB | end use | 77,656 | 5.7% | 0.63 | 10 | \$4,853 | 73% | 0.37 |
| PPL | Improved Controls - Motors | Mfg: Metals | Motors | Existing | end use | 77,656 | 4.0% | 0.44 | 10 | \$338 | 73% | 2.33 |
| PPL | Improved Controls - Motors | Mfg: Metals | Motors | New | end use | 77,656 | 4.0% | 0.44 | 10 | \$338 | 73% | 2.33 |
| PPL | Motor Management Plan | Mfg: Metals | Motors | Existing | end use | 77,656 | 2.9% | 0.32 | 10 | \$158 | 73% | 2.99 |
| PPL | Motor Management Plan | Mfg: Metals | Motors | New | end use | 77,656 | 2.9% | 0.32 | 10 | \$158 | 73% | 2.98 |
| PPL | Motors Other | Mfg: Metals | Motors | Existing | end use | 77,656 | 1.4% | 0.15 | 15 | \$20 | 83% | 6.81 |
| PPL | Motors Other | Mfg: Metals | Motors | New | end use | 77,656 | 1.4% | 0.15 | 15 | \$20 | 83% | 6.80 |
| PPL | Motors: Rewind 101-200 HP | Mfg: Metals | Motors | Existing | end use | 77,656 | 0.6% | 0.06 | 10 | \$98 | 27% | 1.43 |
| PPL | Motors: Rewind 101-200 HP | Mfg: Metals | Motors | New | end use | 77,656 | 0.6% | 0.06 | 10 | \$98 | 27% | 1.43 |
| PPL | Motors: Rewind 201-500 HP | Mfg: Metals | Motors | Existing | end use | 77,656 | 0.6% | 0.06 | 8 | \$62 | 27% | 1.63 |
| PPL | Motors: Rewind 201-500 HP | Mfg: Metals | Motors | New | end use | 77,656 | 0.6% | 0.06 | 8 | \$62 | 27% | 1.62 |
| PPL | Motors: Rewind 20-50 HP | Mfg: Metals | Motors | Existing | end use | 77,656 | 1.0% | 0.11 | 11 | \$288 | 42% | 1.09 |
| PPL | Motors: Rewind 20-50 HP | Mfg: Metals | Motors | New | end use | 77,656 | 1.0% | 0.11 | 11 | \$288 | 42% | 1.08 |
| PPL | Motors: Rewind 500+ HP | Mfg: Metals | Motors | Existing | end use | 77,656 | 0.6% | 0.06 | 8 | \$44 | 11% | 2.04 |
| PPL | Motors: Rewind 500+ HP | Mfg: Metals | Motors | New | end use | 77,656 | 0.6% | 0.06 | 8 | \$44 | 11% | 2.04 |
| PPL | Motors: Rewind 51-100 HP | Mfg: Metals | Motors | Existing | end use | 77,656 | 0.6% | 0.07 | 9 | \$142 | 42% | 1.03 |
| PPL | Motors: Rewind 51-100 HP | Mfg: Metals | Motors | New | end use | 77,656 | 0.6% | 0.07 | 9 | \$142 | 42% | 1.02 |
| PPL | Switch from Belt drive to Direct Drive | Mfg: Metals | Motors | Early | end use | 77,656 | 7.5% | 0.83 | 12 | \$1,246 | 30% | 1.79 |
| PPL | Switch from Belt drive to Direct Drive | Mfg: Metals | Motors | New | end use | 77,656 | 7.5% | 0.83 | 12 | \$1,246 | 30% | 1.79 |
| PPL | Switch from Belt drive to Direct Drive | Mfg: Metals | Motors | ROB | end use | 77,656 | 7.5% | 0.83 | 12 | \$1,246 | 30% | 1.79 |
| PPL | Synchronous Belts | Mfg: Metals | Motors | Early | end use | 77,656 | 1.2% | 0.13 | 10 | \$114 | 30% | 2.20 |
| PPL | Synchronous Belts | Mfg: Metals | Motors | New | end use | 77,656 | 1.2% | 0.13 | 10 | \$114 | 30% | 2.20 |
| PPL | Synchronous Belts | Mfg: Metals | Motors | ROB | end use | 77,656 | 1.2% | 0.13 | 10 | \$114 | 30% | 2.20 |
| PPL | Bldg Improvements | Mfg: Metals | Other | Existing | end use | 50,080 | 16% | 0.96 | 15 | \$1,092 | 72% | 2.86 |
| PPL | Bldg Improvements | Mfg: Metals | Other | New | end use | 50,080 | 16% | 0.96 | 15 | \$1,092 | 72% | 2.86 |
| PPL | Energy Project Management | Mfg: Metals | Other | Existing | end use | 50,080 | 29% | 1.73 | 11 | \$1,788 | 63% | 2.30 |
| PPL | Energy Project Management | Mfg: Metals | Other | New | end use | 50,080 | 29% | 1.73 | 11 | \$1,788 | 63% | 2.30 |
| PPL | Facility Energy Management | Mfg: Metals | Other | Existing | end use | 50,080 | 1.9% | 0.11 | 2 | \$19 | 76% | 1.07 |
| PPL | Facility Energy Management | Mfg: Metals | Other | New | end use | 50,080 | 1.9% | 0.11 | 2 | \$19 | 76% | 1.07 |
| PPL | Integrated Plant Energy Management | Mfg: Metals | Other | Existing | end use | 50,080 | 50% | 2.98 | 11 | \$4,936 | 48% | 1.67 |
| PPL | Integrated Plant Energy Management | Mfg: Metals | Other | New | end use | 50,080 | 50% | 2.98 | 11 | \$4,936 | 48% | 1.67 |
| PPL | Plant Energy Management | Mfg: Metals | Other | Existing | end use | 50,080 | 12% | 0.72 | 10 | \$126 | 55% | 4.47 |
| PPL | Plant Energy Management | Mfg: Metals | Other | New | end use | 50,080 | 12% | 0.72 | 10 | \$126 | 55% | 4.47 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|-------------------------------------|-------------|------------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Transformers | Mfg: Metals | Other | Early | end use | 50,080 | 1.6% | 0.10 | 15 | \$160 | 34% | 2.19 |
| PPL | Transformers | Mfg: Metals | Other | New | end use | 50,080 | 1.6% | 0.10 | 15 | \$160 | 34% | 2.17 |
| PPL | Transformers | Mfg: Metals | Other | ROB | end use | 50,080 | 1.6% | 0.10 | 15 | \$160 | 34% | 2.18 |
| PPL | Air Compressor Demand Reduction | Mfg: Metals | Process Air Compressor | Existing | end use | 7,262 | 26% | 0.24 | 10 | \$109 | 40% | 3.22 |
| PPL | Air Compressor Demand Reduction | Mfg: Metals | Process Air Compressor | New | end use | 7,262 | 26% | 0.24 | 10 | \$109 | 40% | 3.22 |
| PPL | Air Compressor Equipment | Mfg: Metals | Process Air Compressor | Early | end use | 7,262 | 39% | 0.37 | 10 | \$132 | 56% | 3.53 |
| PPL | Air Compressor Equipment | Mfg: Metals | Process Air Compressor | New | end use | 7,262 | 39% | 0.37 | 10 | \$132 | 56% | 3.53 |
| PPL | Air Compressor Equipment | Mfg: Metals | Process Air Compressor | ROB | end use | 7,262 | 39% | 0.37 | 10 | \$132 | 56% | 3.53 |
| PPL | Air Compressor Optimization | Mfg: Metals | Process Air Compressor | Existing | end use | 7,262 | 39% | 0.37 | 10 | \$316 | 42% | 2.28 |
| PPL | Air Compressor Optimization | Mfg: Metals | Process Air Compressor | New | end use | 7,262 | 39% | 0.37 | 10 | \$316 | 42% | 2.28 |
| PPL | Facility Energy Management | Mfg: Metals | Process Air Compressor | Existing | end use | 7,262 | 1.9% | 0.02 | 2 | \$2.8 | 50% | 1.08 |
| PPL | Facility Energy Management | Mfg: Metals | Process Air Compressor | New | end use | 7,262 | 1.9% | 0.02 | 2 | \$2.8 | 50% | 1.08 |
| PPL | HE Compressor motors | Mfg: Metals | Process Air Compressor | Early | end use | 7,262 | 1.1% | 0.01 | 15 | \$27 | 56% | 1.44 |
| PPL | HE Compressor motors | Mfg: Metals | Process Air Compressor | New | end use | 7,262 | 1.1% | 0.01 | 15 | \$27 | 56% | 1.44 |
| PPL | HE Compressor motors | Mfg: Metals | Process Air Compressor | ROB | end use | 7,262 | 1.1% | 0.01 | 15 | \$27 | 56% | 1.44 |
| PPL | Improved Controls - Air Compressor | Mfg: Metals | Process Air Compressor | Existing | end use | 7,262 | 41% | 0.38 | 10 | \$130 | 19% | 3.62 |
| PPL | Improved Controls - Air Compressor | Mfg: Metals | Process Air Compressor | New | end use | 7,262 | 41% | 0.38 | 10 | \$130 | 19% | 3.62 |
| PPL | Low Pressure-drop Filters | Mfg: Metals | Process Air Compressor | Existing | end use | 7,262 | 1.8% | 0.02 | 10 | \$82 | 46% | 0.60 |
| PPL | Low Pressure-drop Filters | Mfg: Metals | Process Air Compressor | New | end use | 7,262 | 1.8% | 0.02 | 10 | \$82 | 46% | 0.60 |
| PPL | Outside Air Intake | Mfg: Metals | Process Air Compressor | Existing | end use | 7,262 | 1.4% | 0.01 | 10 | \$48 | 37% | 0.78 |
| PPL | Outside Air Intake | Mfg: Metals | Process Air Compressor | New | end use | 7,262 | 1.4% | 0.01 | 10 | \$48 | 37% | 0.79 |
| PPL | Receiver Capacity Addition | Mfg: Metals | Process Air Compressor | Existing | end use | 7,262 | 5.9% | 0.06 | 10 | \$135 | 28% | 1.08 |
| PPL | Receiver Capacity Addition | Mfg: Metals | Process Air Compressor | New | end use | 7,262 | 5.9% | 0.06 | 10 | \$135 | 28% | 1.08 |
| PPL | Refrigerated Cycling Dryers | Mfg: Metals | Process Air Compressor | Early | end use | 7,262 | 1.7% | 0.02 | 10 | \$17 | 16% | 1.99 |
| PPL | Refrigerated Cycling Dryers | Mfg: Metals | Process Air Compressor | New | end use | 7,262 | 1.7% | 0.02 | 10 | \$17 | 16% | 1.99 |
| PPL | Refrigerated Cycling Dryers | Mfg: Metals | Process Air Compressor | ROB | end use | 7,262 | 1.7% | 0.02 | 10 | \$17 | 16% | 1.99 |
| PPL | VFD Controlled Compressor | Mfg: Metals | Process Air Compressor | Early | end use | 7,262 | 24% | 0.22 | 10 | \$715 | 22% | 0.85 |
| PPL | VFD Controlled Compressor | Mfg: Metals | Process Air Compressor | New | end use | 7,262 | 24% | 0.22 | 10 | \$715 | 22% | 0.85 |
| PPL | VFD Controlled Compressor | Mfg: Metals | Process Air Compressor | ROB | end use | 7,262 | 24% | 0.22 | 10 | \$715 | 22% | 0.85 |
| PPL | Zero Loss Condensate Drain | Mfg: Metals | Process Air Compressor | Early | end use | 7,262 | 1.9% | 0.02 | 10 | \$42 | 6% | 1.09 |
| PPL | Zero Loss Condensate Drain | Mfg: Metals | Process Air Compressor | New | end use | 7,262 | 1.9% | 0.02 | 10 | \$42 | 6% | 1.09 |
| PPL | Zero Loss Condensate Drain | Mfg: Metals | Process Air Compressor | ROB | end use | 7,262 | 1.8% | 0.02 | 10 | \$42 | 6% | 1.09 |
| PPL | Cooling Tower Optimization | Mfg: Metals | Process Cooling | Existing | building | 23,797 | 20% | 1.70 | 10 | \$146 | 15% | 5.25 |
| PPL | Equipment: Chillers | Mfg: Metals | Process Cooling | Early | end use | 23,797 | 18% | 0.89 | 15 | \$1,117 | 39% | 1.94 |
| PPL | Equipment: Chillers | Mfg: Metals | Process Cooling | New | end use | 23,797 | 18% | 0.89 | 15 | \$1,117 | 39% | 1.94 |
| PPL | Equipment: Chillers | Mfg: Metals | Process Cooling | ROB | end use | 23,797 | 18% | 0.89 | 15 | \$1,117 | 39% | 1.94 |
| PPL | Facility Energy Management | Mfg: Metals | Process Cooling | Existing | end use | 23,797 | 1.8% | 0.09 | 2 | \$9.2 | 50% | 1.19 |
| PPL | Facility Energy Management | Mfg: Metals | Process Cooling | New | end use | 23,797 | 1.9% | 0.09 | 2 | \$9.2 | 50% | 1.19 |
| PPL | Improved Controls - Process Cooling | Mfg: Metals | Process Cooling | Existing | end use | 23,797 | 6.0% | 0.30 | 10 | \$1,256 | 47% | 0.48 |
| PPL | Improved Controls - Process Cooling | Mfg: Metals | Process Cooling | New | end use | 23,797 | 6.0% | 0.30 | 10 | \$1,256 | 47% | 0.48 |
| PPL | VFD on Cooling Tower Fan | Mfg: Metals | Process Cooling | Early | motor | 23,797 | 21% | 1.50 | 15 | \$1,096 | 20% | 2.46 |
| PPL | VFD on Cooling Tower Fan | Mfg: Metals | Process Cooling | New | motor | 23,797 | 22% | 1.50 | 15 | \$1,117 | 20% | 2.44 |
| PPL | VFD on Cooling Tower Fan | Mfg: Metals | Process Cooling | ROB | motor | 23,797 | 22% | 1.50 | 15 | \$1,117 | 20% | 2.44 |
| PPL | Improved Controls - Process Heating | Mfg: Metals | Process Heating | Existing | end use | 911,351 | 17% | 21.42 | 10 | \$10,471 | 89% | 3.04 |
| PPL | Improved Controls - Process Heating | Mfg: Metals | Process Heating | New | end use | 911,351 | 17% | 21.42 | 10 | \$10,471 | 89% | 3.04 |
| PPL | Metal: New Arc Furnace | Mfg: Metals | Process Heating | Early | end use | 911,351 | 45% | 56.03 | 10 | \$37,864 | 8% | 2.56 |
| PPL | Metal: New Arc Furnace | Mfg: Metals | Process Heating | New | end use | 911,351 | 45% | 56.03 | 10 | \$37,864 | 8% | 2.56 |
| PPL | Metal: New Arc Furnace | Mfg: Metals | Process Heating | ROB | end use | 911,351 | 45% | 56.03 | 10 | \$37,864 | 8% | 2.56 |
| PPL | Process Heat O&M | Mfg: Metals | Process Heating | Existing | end use | 911,351 | 16% | 20.25 | 2 | \$6,328 | 89% | 0.88 |
| PPL | Process Heat O&M | Mfg: Metals | Process Heating | New | end use | 911,351 | 16% | 20.25 | 2 | \$6,328 | 89% | 0.88 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---------------------------------------|-------------|-----------------------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Facility Energy Management | Mfg: Metals | Process Other | Existing | end use | 437,389 | 1.8% | 1.13 | 2 | \$169 | 73% | 1.09 |
| PPL | Facility Energy Management | Mfg: Metals | Process Other | New | end use | 437,389 | 1.8% | 1.13 | 2 | \$169 | 73% | 1.09 |
| PPL | Adjustable speed drive on compressors | Mfg: Metals | Process Refrigeration | Early | end use | 12,224 | 12% | 0.21 | 10 | \$226 | 30% | 1.97 |
| PPL | Adjustable speed drive on compressors | Mfg: Metals | Process Refrigeration | New | end use | 12,224 | 12% | 0.21 | 10 | \$226 | 30% | 1.97 |
| PPL | Adjustable speed drive on compressors | Mfg: Metals | Process Refrigeration | ROB | end use | 12,224 | 12% | 0.21 | 10 | \$226 | 30% | 1.97 |
| PPL | Cooling Tower Optimization | Mfg: Metals | Process Refrigeration | Existing | building | 12,224 | 20% | 0.88 | 10 | \$75 | 15% | 5.25 |
| PPL | Optimization of operating parameters | Mfg: Metals | Process Refrigeration | Existing | end use | 12,224 | 13% | 0.23 | 3 | \$99 | 27% | 1.11 |
| PPL | Optimization of operating parameters | Mfg: Metals | Process Refrigeration | New | end use | 12,224 | 13% | 0.23 | 3 | \$99 | 27% | 1.11 |
| PPL | Synchronous Belts | Mfg: Metals | Process Refrigeration | Early | end use | 12,224 | 1.2% | 0.02 | 10 | \$18 | 30% | 2.29 |
| PPL | Synchronous Belts | Mfg: Metals | Process Refrigeration | New | end use | 12,224 | 1.2% | 0.02 | 10 | \$18 | 30% | 2.29 |
| PPL | Synchronous Belts | Mfg: Metals | Process Refrigeration | ROB | end use | 12,224 | 1.2% | 0.02 | 10 | \$18 | 30% | 2.29 |
| PPL | VFD on Cooling Tower Fan | Mfg: Metals | Process Refrigeration | Early | motor | 12,224 | 21% | 0.77 | 15 | \$563 | 20% | 2.46 |
| PPL | VFD on Cooling Tower Fan | Mfg: Metals | Process Refrigeration | New | motor | 12,224 | 22% | 0.77 | 15 | \$574 | 20% | 2.44 |
| PPL | VFD on Cooling Tower Fan | Mfg: Metals | Process Refrigeration | ROB | motor | 12,224 | 22% | 0.77 | 15 | \$574 | 20% | 2.44 |
| PPL | Facility Energy Management | Mfg: Metals | Pumps | Existing | end use | 435,302 | 1.9% | 1.04 | 2 | \$168 | 69% | 1.08 |
| PPL | Facility Energy Management | Mfg: Metals | Pumps | New | end use | 435,302 | 1.9% | 1.04 | 2 | \$168 | 69% | 1.08 |
| PPL | HE Motors | Mfg: Metals | Pumps | Early | end use | 435,302 | 2.0% | 1.16 | 15 | \$2,591 | 73% | 1.69 |
| PPL | HE Motors | Mfg: Metals | Pumps | New | end use | 435,302 | 2.0% | 1.16 | 15 | \$2,591 | 73% | 1.69 |
| PPL | HE Motors | Mfg: Metals | Pumps | ROB | end use | 435,302 | 2.0% | 1.16 | 15 | \$2,591 | 73% | 1.69 |
| PPL | Motor rewinds | Mfg: Metals | Pumps | Existing | end use | 435,302 | 0.6% | 0.34 | 9 | \$619 | 11% | 1.21 |
| PPL | Motor rewinds | Mfg: Metals | Pumps | New | end use | 435,302 | 0.6% | 0.34 | 9 | \$619 | 11% | 1.23 |
| PPL | Synchronous Belts | Mfg: Metals | Pumps | Early | end use | 435,302 | 1.2% | 0.66 | 10 | \$641 | 61% | 2.16 |
| PPL | Synchronous Belts | Mfg: Metals | Pumps | New | end use | 435,302 | 1.2% | 0.66 | 10 | \$641 | 61% | 2.16 |
| PPL | Synchronous Belts | Mfg: Metals | Pumps | ROB | end use | 435,302 | 1.2% | 0.66 | 10 | \$641 | 61% | 2.16 |
| PPL | Circulating Fans | Mfg: Other | Fans | Early | end use | 86,692 | 5.0% | 0.52 | 10 | \$528 | 68% | 2.28 |
| PPL | Circulating Fans | Mfg: Other | Fans | New | end use | 86,692 | 5.0% | 0.52 | 10 | \$528 | 68% | 2.28 |
| PPL | Circulating Fans | Mfg: Other | Fans | ROB | end use | 86,692 | 5.0% | 0.52 | 10 | \$528 | 68% | 2.28 |
| PPL | Facility Energy Management | Mfg: Other | Fans | Existing | end use | 86,692 | 2.0% | 0.19 | 2 | \$33 | 77% | 1.07 |
| PPL | Facility Energy Management | Mfg: Other | Fans | New | end use | 86,692 | 1.9% | 0.19 | 2 | \$33 | 77% | 1.07 |
| PPL | Fan Equipment Upgrade | Mfg: Other | Fans | Early | end use | 86,692 | 35% | 3.61 | 10 | \$2,601 | 68% | 2.80 |
| PPL | Fan Equipment Upgrade | Mfg: Other | Fans | New | end use | 86,692 | 35% | 3.61 | 10 | \$2,601 | 68% | 2.80 |
| PPL | Fan Equipment Upgrade | Mfg: Other | Fans | ROB | end use | 86,692 | 35% | 3.61 | 10 | \$2,601 | 68% | 2.80 |
| PPL | Fan System Optimization | Mfg: Other | Fans | Existing | end use | 86,692 | 7.3% | 0.76 | 10 | \$1,182 | 83% | 1.59 |
| PPL | Fan System Optimization | Mfg: Other | Fans | New | end use | 86,692 | 7.3% | 0.76 | 10 | \$1,182 | 83% | 1.59 |
| PPL | HE Motors | Mfg: Other | Fans | Early | end use | 86,692 | 2.0% | 0.21 | 15 | \$516 | 77% | 1.73 |
| PPL | HE Motors | Mfg: Other | Fans | New | end use | 86,692 | 2.0% | 0.21 | 15 | \$516 | 77% | 1.73 |
| PPL | HE Motors | Mfg: Other | Fans | ROB | end use | 86,692 | 2.0% | 0.21 | 15 | \$516 | 77% | 1.73 |
| PPL | Improved Controls - Fans | Mfg: Other | Fans | Existing | end use | 86,692 | 7.1% | 0.73 | 10 | \$336 | 88% | 3.27 |
| PPL | Improved Controls - Fans | Mfg: Other | Fans | New | end use | 86,692 | 7.1% | 0.73 | 10 | \$336 | 88% | 3.27 |
| PPL | Properly Sized Fans | Mfg: Other | Fans | Early | end use | 86,692 | 13% | 1.36 | 10 | \$1,776 | 41% | 1.93 |
| PPL | Properly Sized Fans | Mfg: Other | Fans | New | end use | 86,692 | 13% | 1.36 | 10 | \$1,776 | 41% | 1.93 |
| PPL | Properly Sized Fans | Mfg: Other | Fans | ROB | end use | 86,692 | 13% | 1.36 | 10 | \$1,776 | 41% | 1.93 |
| PPL | Synchronous Belts | Mfg: Other | Fans | Early | end use | 86,692 | 1.2% | 0.12 | 10 | \$128 | 41% | 2.22 |
| PPL | Synchronous Belts | Mfg: Other | Fans | New | end use | 86,692 | 1.2% | 0.12 | 10 | \$128 | 41% | 2.22 |
| PPL | Synchronous Belts | Mfg: Other | Fans | ROB | end use | 86,692 | 1.2% | 0.12 | 10 | \$128 | 41% | 2.22 |
| PPL | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Other | HVAC | Early | unit (ton) | 174,975 | 9.2% | 4.16 | 15 | \$31,874 | 28% | 0.34 |
| PPL | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Other | HVAC | New | unit (ton) | 174,975 | 4.1% | 1.87 | 15 | \$7,722 | 28% | 0.61 |
| PPL | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Other | HVAC | ROB | unit (ton) | 174,975 | 4.1% | 1.87 | 15 | \$7,722 | 28% | 0.61 |
| PPL | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Other | HVAC | Early | unit (ton) | 174,975 | 12% | 5.63 | 15 | \$37,576 | 28% | 0.38 |
| PPL | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Other | HVAC | New | unit (ton) | 174,975 | 7.7% | 3.49 | 15 | \$16,265 | 28% | 0.54 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Other | HVAC | ROB | unit (ton) | 174,975 | 7.7% | 3.49 | 15 | \$16,265 | 28% | 0.54 |
| PPL | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Other | HVAC | Early | unit (ton) | 174,975 | 15% | 6.92 | 15 | \$43,278 | 29% | 0.41 |
| PPL | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Other | HVAC | New | unit (ton) | 174,975 | 11% | 4.91 | 15 | \$24,808 | 29% | 0.50 |
| PPL | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Other | HVAC | ROB | unit (ton) | 174,975 | 11% | 4.91 | 15 | \$24,808 | 29% | 0.50 |
| PPL | >760k min 10.2 EER Air Conditioner | Mfg: Other | HVAC | Early | unit (ton) | 174,975 | 2.1% | 0.96 | 15 | \$55,506 | 35% | 0.05 |
| PPL | >760k min 10.2 EER Air Conditioner | Mfg: Other | HVAC | New | unit (ton) | 174,975 | 2.8% | 1.28 | 15 | \$5,017 | 35% | 0.64 |
| PPL | >760k min 10.2 EER Air Conditioner | Mfg: Other | HVAC | ROB | unit (ton) | 174,975 | 2.8% | 1.28 | 15 | \$5,017 | 35% | 0.64 |
| PPL | 135-240k min 12 EER Air Conditioner | Mfg: Other | HVAC | Early | unit (ton) | 174,975 | 10% | 4.75 | 15 | \$60,104 | 35% | 0.21 |
| PPL | 135-240k min 12 EER Air Conditioner | Mfg: Other | HVAC | New | unit (ton) | 174,975 | 5.8% | 2.62 | 15 | \$7,097 | 35% | 0.90 |
| PPL | 135-240k min 12 EER Air Conditioner | Mfg: Other | HVAC | ROB | unit (ton) | 174,975 | 5.8% | 2.62 | 15 | \$7,097 | 35% | 0.90 |
| PPL | 240k-760k min 11 EER Air Conditioner | Mfg: Other | HVAC | Early | unit (ton) | 174,975 | 5.2% | 2.36 | 15 | \$55,541 | 35% | 0.11 |
| PPL | 240k-760k min 11 EER Air Conditioner | Mfg: Other | HVAC | New | unit (ton) | 174,975 | 5.3% | 2.42 | 15 | \$5,950 | 35% | 0.98 |
| PPL | 240k-760k min 11 EER Air Conditioner | Mfg: Other | HVAC | ROB | unit (ton) | 174,975 | 5.3% | 2.42 | 15 | \$5,950 | 35% | 0.98 |
| PPL | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Other | HVAC | Early | unit (ton) | 174,975 | 9.7% | 4.40 | 15 | \$61,542 | 35% | 0.19 |
| PPL | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Other | HVAC | New | unit (ton) | 174,975 | 3.8% | 1.75 | 15 | \$8,780 | 35% | 0.50 |
| PPL | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Other | HVAC | ROB | unit (ton) | 174,975 | 3.8% | 1.75 | 15 | \$8,780 | 35% | 0.50 |
| PPL | Ceiling Insualtions (Going upto R 20) | Mfg: Other | HVAC | Existing | building | 174,975 | 5.9% | 2.60 | 15 | \$530,146 | 71% | 0.01 |
| PPL | Ceiling Insualtions (Going upto R 20) | Mfg: Other | HVAC | New | building | 174,975 | 3.7% | 1.63 | 15 | \$503,918 | 94% | 0.01 |
| PPL | Chiller Tuneup/Diagnostics | Mfg: Other | HVAC | Existing | building | 174,975 | 8.0% | 5.13 | 10 | \$446,789 | 59% | 0.02 |
| PPL | Chiller Tuneup/Diagnostics | Mfg: Other | HVAC | New | building | 174,975 | 8.0% | 5.14 | 10 | \$446,789 | 59% | 0.02 |
| PPL | Cooling Tower Optimization | Mfg: Other | HVAC | Existing | building | 174,975 | 20% | 12.52 | 10 | \$1,073 | 12% | 5.25 |
| PPL | Duct Insulation, Add R8 | Mfg: Other | HVAC | Existing | building | 174,975 | 1.5% | 0.56 | 15 | \$1,390 | 18% | 1.10 |
| PPL | Duct Insulation, Add R8 | Mfg: Other | HVAC | New | building | 174,975 | 1.5% | 0.56 | 15 | \$1,390 | 9% | 1.10 |
| PPL | Ductless Heat Pump | Mfg: Other | HVAC | Early | heat pump | 174,975 | 0.8% | 0.33 | 15 | \$13,897 | 83% | 0.07 |
| PPL | Ductless Heat Pump | Mfg: Other | HVAC | New | heat pump | 174,975 | 0.4% | 0.17 | 15 | \$4,036 | 83% | 0.13 |
| PPL | Ductless Heat Pump | Mfg: Other | HVAC | ROB | heat pump | 174,975 | 0.4% | 0.17 | 15 | \$4,036 | 83% | 0.13 |
| PPL | DX Coil Cleaning | Mfg: Other | HVAC | Existing | building | 174,975 | 13% | 8.03 | 1 | \$1,677 | 73% | 0.48 |
| PPL | DX Coil Cleaning | Mfg: Other | HVAC | New | building | 174,975 | 13% | 8.03 | 1 | \$1,677 | 73% | 0.48 |
| PPL | Efficient Unit Heating System | Mfg: Other | HVAC | Early | heater | 174,975 | 6.9% | 0.10 | 15 | \$9,425 | 83% | 0.62 |
| PPL | Efficient Unit Heating System | Mfg: Other | HVAC | New | heater | 174,975 | 4.0% | 0.06 | 15 | \$6,429 | 83% | 0.53 |
| PPL | Efficient Unit Heating System | Mfg: Other | HVAC | ROB | heater | 174,975 | 4.0% | 0.06 | 15 | \$6,429 | 83% | 0.53 |
| PPL | Ground Source Heat Pump (Closed Loop) | Mfg: Other | HVAC | Early | heat pump | 174,975 | 1.3% | 0.51 | 15 | \$28,856 | 19% | 0.05 |
| PPL | Ground Source Heat Pump (Closed Loop) | Mfg: Other | HVAC | New | heat pump | 174,975 | 1.0% | 0.40 | 15 | \$11,393 | 19% | 0.10 |
| PPL | Ground Source Heat Pump (Closed Loop) | Mfg: Other | HVAC | ROB | heat pump | 174,975 | 1.0% | 0.40 | 15 | \$11,393 | 19% | 0.10 |
| PPL | Ground Source Heat Pump (Open Loop) | Mfg: Other | HVAC | Early | heat pump | 174,975 | 1.3% | 0.51 | 15 | \$18,481 | 19% | 0.08 |
| PPL | Ground Source Heat Pump (Open Loop) | Mfg: Other | HVAC | New | heat pump | 174,975 | 1.0% | 0.40 | 15 | \$392 | 19% | 2.32 |
| PPL | Ground Source Heat Pump (Open Loop) | Mfg: Other | HVAC | ROB | heat pump | 174,975 | 1.0% | 0.40 | 15 | \$392 | 19% | 2.32 |
| PPL | HE Air Cooled Chiller, 100 Tons | Mfg: Other | HVAC | Early | unit (ton) | 174,975 | 1.5% | 0.58 | 15 | \$205,710 | 89% | 0.01 |
| PPL | HE Air Cooled Chiller, 100 Tons | Mfg: Other | HVAC | New | unit (ton) | 174,975 | 0.4% | 0.16 | 15 | \$29,968 | 89% | 0.02 |
| PPL | HE Air Cooled Chiller, 100 Tons | Mfg: Other | HVAC | ROB | unit (ton) | 174,975 | 0.4% | 0.16 | 15 | \$29,968 | 89% | 0.02 |
| PPL | HE Air Cooled Chiller, 150 Tons | Mfg: Other | HVAC | Early | unit (ton) | 174,975 | 1.5% | 0.57 | 15 | \$177,687 | 89% | 0.01 |
| PPL | HE Air Cooled Chiller, 150 Tons | Mfg: Other | HVAC | New | unit (ton) | 174,975 | 0.3% | 0.12 | 15 | \$14,717 | 89% | 0.02 |
| PPL | HE Air Cooled Chiller, 150 Tons | Mfg: Other | HVAC | ROB | unit (ton) | 174,975 | 0.3% | 0.12 | 15 | \$14,717 | 89% | 0.02 |
| PPL | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Other | HVAC | Early | heat pump | 174,975 | 1.4% | 0.54 | 12 | \$7,533 | 81% | 0.17 |
| PPL | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Other | HVAC | Early | heat pump | 174,975 | 1.1% | 0.44 | 12 | \$5,503 | 81% | 0.20 |
| PPL | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Other | HVAC | New | heat pump | 174,975 | 1.0% | 0.40 | 12 | \$3,363 | 81% | 0.29 |
| PPL | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Other | HVAC | New | heat pump | 174,975 | 0.8% | 0.30 | 12 | \$1,176 | 81% | 0.58 |
| PPL | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Other | HVAC | ROB | heat pump | 174,975 | 1.0% | 0.40 | 12 | \$3,363 | 81% | 0.29 |
| PPL | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Other | HVAC | ROB | heat pump | 174,975 | 0.8% | 0.30 | 12 | \$1,176 | 81% | 0.58 |
| PPL | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Other | HVAC | Early | unit (ton) | 174,975 | 1.6% | 0.63 | 15 | \$16,322 | 89% | 0.11 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|------------|----------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Other | HVAC | New | unit (ton) | 174,975 | 0.9% | 0.37 | 15 | \$5,429 | 89% | 0.20 |
| PPL | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Other | HVAC | ROB | unit (ton) | 174,975 | 0.9% | 0.37 | 15 | \$5,429 | 89% | 0.20 |
| PPL | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Other | HVAC | Early | unit (ton) | 174,975 | 1.4% | 0.56 | 15 | \$15,941 | 89% | 0.10 |
| PPL | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Other | HVAC | New | unit (ton) | 174,975 | 1.0% | 0.39 | 15 | \$3,113 | 89% | 0.36 |
| PPL | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Other | HVAC | ROB | unit (ton) | 174,975 | 1.4% | 0.56 | 15 | \$2,860 | 89% | 0.55 |
| PPL | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Other | HVAC | Early | unit (ton) | 174,975 | 1.4% | 0.55 | 15 | \$18,867 | 89% | 0.09 |
| PPL | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Other | HVAC | New | unit (ton) | 174,975 | 0.9% | 0.35 | 15 | \$7,943 | 89% | 0.13 |
| PPL | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Other | HVAC | ROB | unit (ton) | 174,975 | 1.4% | 0.55 | 15 | \$7,189 | 89% | 0.22 |
| PPL | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Other | HVAC | Early | unit (ton) | 174,975 | 1.4% | 0.55 | 15 | \$18,174 | 89% | 0.09 |
| PPL | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Other | HVAC | New | unit (ton) | 174,975 | 0.9% | 0.35 | 15 | \$6,905 | 89% | 0.15 |
| PPL | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Other | HVAC | ROB | unit (ton) | 174,975 | 1.4% | 0.55 | 15 | \$6,249 | 89% | 0.26 |
| PPL | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Other | HVAC | Early | unit (ton) | 174,975 | 1.8% | 0.72 | 15 | \$19,583 | 89% | 0.11 |
| PPL | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Other | HVAC | New | unit (ton) | 174,975 | 0.6% | 0.22 | 15 | \$12,126 | 89% | 0.05 |
| PPL | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Other | HVAC | ROB | unit (ton) | 174,975 | 1.8% | 0.72 | 15 | \$9,416 | 89% | 0.22 |
| PPL | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Other | HVAC | Early | unit (ton) | 174,975 | 2.2% | 0.85 | 15 | \$18,012 | 89% | 0.14 |
| PPL | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Other | HVAC | New | unit (ton) | 174,975 | 0.8% | 0.31 | 15 | \$7,228 | 89% | 0.13 |
| PPL | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Other | HVAC | ROB | unit (ton) | 174,975 | 0.8% | 0.31 | 15 | \$7,228 | 89% | 0.13 |
| PPL | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Other | HVAC | Early | unit (ton) | 174,975 | 2.4% | 0.96 | 15 | \$15,266 | 89% | 0.18 |
| PPL | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Other | HVAC | New | unit (ton) | 174,975 | 0.9% | 0.36 | 15 | \$3,841 | 89% | 0.27 |
| PPL | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Other | HVAC | ROB | unit (ton) | 174,975 | 2.4% | 0.96 | 15 | \$2,739 | 89% | 0.94 |
| PPL | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Other | HVAC | Early | unit (ton) | 174,975 | 1.8% | 0.72 | 15 | \$15,112 | 89% | 0.14 |
| PPL | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Other | HVAC | New | unit (ton) | 174,975 | 0.7% | 0.27 | 15 | \$4,232 | 89% | 0.19 |
| PPL | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Other | HVAC | ROB | unit (ton) | 174,975 | 1.8% | 0.72 | 15 | \$3,353 | 89% | 0.60 |
| PPL | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Other | HVAC | Existing | building | 174,975 | 2.9% | 1.03 | 5 | \$1,856 | 55% | 0.57 |
| PPL | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Other | HVAC | New | building | 174,975 | 0.6% | 0.41 | 5 | \$1,114 | 51% | 0.28 |
| PPL | Improved Controls - HVAC | Mfg: Other | HVAC | Existing | end use | 174,975 | 21% | 5.25 | 10 | \$1,840 | 76% | 3.49 |
| PPL | Improved Controls - HVAC | Mfg: Other | HVAC | New | end use | 174,975 | 21% | 5.25 | 10 | \$1,840 | 76% | 3.49 |
| PPL | Outside Air Economizer | Mfg: Other | HVAC | Existing | building | 174,975 | 1.1% | 0.49 | 10 | \$642,890 | 82% | 0.00 |
| PPL | Outside Air Economizer | Mfg: Other | HVAC | New | building | 174,975 | 1.1% | 0.49 | 10 | \$642,890 | 82% | 0.00 |
| PPL | Recommissioning | Mfg: Other | HVAC | Existing | end use | 174,975 | 5.0% | 1.26 | 10 | \$240 | 88% | 4.30 |
| PPL | Recommissioning | Mfg: Other | HVAC | New | end use | 174,975 | 5.0% | 1.26 | 10 | \$240 | 88% | 4.31 |
| PPL | Room AC (with louvered sides) | Mfg: Other | HVAC | Early | unit (ton) | 174,975 | 7.7% | 3.04 | 9 | \$13,714 | 78% | 0.39 |
| PPL | Room AC (with louvered sides) | Mfg: Other | HVAC | New | unit (ton) | 174,975 | 2.6% | 1.01 | 9 | \$751 | 78% | 1.77 |
| PPL | Room AC (with louvered sides) | Mfg: Other | HVAC | ROB | unit (ton) | 174,975 | 2.6% | 1.01 | 9 | \$751 | 78% | 1.77 |
| PPL | Variable Refrigerant Flow Heat Pump | Mfg: Other | HVAC | New | measure | 174,975 | 0.1% | 0.05 | 13 | \$1,294 | 43% | 0.09 |
| PPL | Variable Refrigerant Flow Heat Pump | Mfg: Other | HVAC | ROB | measure | 174,975 | 0.1% | 0.05 | 13 | \$1,294 | 43% | 0.09 |
| PPL | VFD on Cooling Tower Fan | Mfg: Other | HVAC | Early | motor | 174,975 | 21% | 11.01 | 15 | \$8,062 | 20% | 2.52 |
| PPL | VFD on Cooling Tower Fan | Mfg: Other | HVAC | New | motor | 174,975 | 22% | 11.01 | 15 | \$8,216 | 15% | 2.51 |
| PPL | VFD on Cooling Tower Fan | Mfg: Other | HVAC | ROB | motor | 174,975 | 22% | 11.01 | 15 | \$8,216 | 15% | 2.51 |
| PPL | Wall Insualtions (Going upto R 21) | Mfg: Other | HVAC | Existing | building | 174,975 | 19% | 8.37 | 15 | \$124,471 | 26% | 0.18 |
| PPL | Wall Insualtions (Going upto R 21) | Mfg: Other | HVAC | New | building | 174,975 | 0.6% | 0.27 | 15 | \$95,475 | 94% | 0.01 |
| PPL | Water Source Heat Pump (4 ton) | Mfg: Other | HVAC | Early | heat pump | 174,975 | 1.5% | 0.61 | 15 | \$29,882 | 6% | 0.06 |
| PPL | Water Source Heat Pump (4 ton) | Mfg: Other | HVAC | New | heat pump | 174,975 | 1.1% | 0.45 | 15 | \$14,564 | 6% | 0.09 |
| PPL | Water Source Heat Pump (4 ton) | Mfg: Other | HVAC | ROB | heat pump | 174,975 | 1.1% | 0.45 | 15 | \$14,564 | 6% | 0.09 |
| PPL | Efficient Metal Halide (High Bay) | Mfg: Other | Lighting | Early | end use | 124,199 | 42% | 0.00 | 9 | \$19,408 | 53% | 0.76 |
| PPL | Efficient Metal Halide (High Bay) | Mfg: Other | Lighting | New | end use | 124,199 | 41% | 0.00 | 13 | \$518,382 | 61% | 0.05 |
| PPL | Efficient Metal Halide (High Bay) | Mfg: Other | Lighting | ROB | end use | 124,199 | 41% | 0.00 | 13 | \$396,176 | 61% | 0.06 |
| PPL | Induction (High Bay) | Mfg: Other | Lighting | Early | end use | 124,199 | 94% | 0.00 | 13 | \$57,746 | 95% | 0.85 |
| PPL | Induction (High Bay) | Mfg: Other | Lighting | New | end use | 124,199 | 94% | 0.00 | 13 | \$54,064 | 95% | 0.90 |
| PPL | Induction (High Bay) | Mfg: Other | Lighting | ROB | end use | 124,199 | 94% | 0.00 | 13 | \$41,091 | 95% | 1.14 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---------------------------------------|------------|----------|----------|---------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | LED (High Bay) | Mfg: Other | Lighting | Early | end use | 124,199 | 69% | 0.00 | 14 | \$67,975 | 95% | 0.59 |
| PPL | LED (High Bay) | Mfg: Other | Lighting | New | end use | 124,199 | 55% | 0.00 | 14 | \$75,451 | 95% | 0.43 |
| PPL | LED (High Bay) | Mfg: Other | Lighting | ROB | end use | 124,199 | 59% | 0.00 | 14 | \$49,713 | 95% | 0.68 |
| PPL | Lighting Controls | Mfg: Other | Lighting | Existing | end use | 124,199 | 20% | 0.00 | 6 | \$465,607 | 16% | 0.01 |
| PPL | Lighting Controls | Mfg: Other | Lighting | New | end use | 124,199 | 12% | 0.00 | 10 | \$619,409 | 11% | 0.01 |
| PPL | Linear Fluorescent (High Bay) | Mfg: Other | Lighting | Early | end use | 124,199 | 17% | 0.00 | 14 | \$14,211 | 98% | 0.68 |
| PPL | Linear Fluorescent (High Bay) | Mfg: Other | Lighting | New | end use | 124,199 | 13% | 0.00 | 14 | \$4,507 | 91% | 1.43 |
| PPL | Linear Fluorescent (High Bay) | Mfg: Other | Lighting | ROB | end use | 124,199 | 13% | 0.00 | 14 | \$2,885 | 91% | 2.07 |
| PPL | Metal Halide (High Bay) | Mfg: Other | Lighting | Early | end use | 124,199 | 62% | 0.00 | 13 | \$85,379 | 38% | 0.41 |
| PPL | Metal Halide (High Bay) | Mfg: Other | Lighting | New | end use | 124,199 | 73% | 0.00 | 13 | \$20,413 | 38% | 1.61 |
| PPL | Metal Halide (High Bay) | Mfg: Other | Lighting | ROB | end use | 124,199 | 73% | 0.00 | 13 | \$15,514 | 38% | 1.97 |
| PPL | Screw Base CFL | Mfg: Other | Lighting | Early | end use | 124,199 | 80% | 0.00 | 7 | \$33,742 | 17% | 0.66 |
| PPL | Screw Base CFL | Mfg: Other | Lighting | New | end use | 124,199 | 73% | 0.00 | 9 | \$27,576 | 18% | 0.90 |
| PPL | Screw Base CFL | Mfg: Other | Lighting | ROB | end use | 124,199 | 73% | 0.00 | 9 | \$23,081 | 17% | 1.03 |
| PPL | Screw Base LED | Mfg: Other | Lighting | Early | end use | 124,199 | 76% | 0.00 | 9 | \$20,708 | 21% | 1.21 |
| PPL | Screw Base LED | Mfg: Other | Lighting | New | end use | 124,199 | 77% | 0.00 | 9 | \$11,536 | 20% | 1.84 |
| PPL | Screw Base LED | Mfg: Other | Lighting | ROB | end use | 124,199 | 77% | 0.00 | 9 | \$9,158 | 21% | 2.12 |
| PPL | T8 High Performance Linear Florescent | Mfg: Other | Lighting | Early | end use | 124,199 | 36% | 0.00 | 14 | \$11,885 | 71% | 1.52 |
| PPL | T8 High Performance Linear Florescent | Mfg: Other | Lighting | New | end use | 124,199 | 26% | 0.00 | 14 | \$4,252 | 76% | 2.56 |
| PPL | T8 High Performance Linear Florescent | Mfg: Other | Lighting | ROB | end use | 124,199 | 26% | 0.00 | 14 | \$3,232 | 76% | 3.03 |
| PPL | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Other | Motors | Early | end use | 27,370 | 0.9% | 0.04 | 15 | \$418 | 81% | 0.35 |
| PPL | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Other | Motors | New | end use | 27,370 | 0.9% | 0.04 | 15 | \$418 | 81% | 0.35 |
| PPL | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Other | Motors | ROB | end use | 27,370 | 0.9% | 0.04 | 15 | \$418 | 81% | 0.36 |
| PPL | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Other | Motors | Early | end use | 27,370 | 0.8% | 0.03 | 15 | \$254 | 73% | 0.47 |
| PPL | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Other | Motors | New | end use | 27,370 | 0.8% | 0.03 | 15 | \$254 | 73% | 0.48 |
| PPL | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Other | Motors | ROB | end use | 27,370 | 0.8% | 0.03 | 15 | \$254 | 73% | 0.47 |
| PPL | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Other | Motors | Early | end use | 27,370 | 0.4% | 0.02 | 15 | \$97 | 81% | 0.72 |
| PPL | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Other | Motors | New | end use | 27,370 | 0.5% | 0.02 | 15 | \$97 | 81% | 0.72 |
| PPL | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Other | Motors | ROB | end use | 27,370 | 0.5% | 0.02 | 15 | \$97 | 81% | 0.73 |
| PPL | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Other | Motors | Early | end use | 27,370 | 0.4% | 0.02 | 15 | \$32 | 73% | 1.67 |
| PPL | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Other | Motors | New | end use | 27,370 | 0.4% | 0.02 | 15 | \$32 | 73% | 1.73 |
| PPL | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Other | Motors | ROB | end use | 27,370 | 0.4% | 0.02 | 15 | \$32 | 73% | 1.67 |
| PPL | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Other | Motors | Early | end use | 27,370 | 0.9% | 0.04 | 15 | \$48 | 47% | 2.37 |
| PPL | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Other | Motors | New | end use | 27,370 | 0.9% | 0.04 | 15 | \$48 | 47% | 2.36 |
| PPL | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Other | Motors | ROB | end use | 27,370 | 0.9% | 0.04 | 15 | \$48 | 47% | 2.35 |
| PPL | Facility Energy Management | Mfg: Other | Motors | Existing | end use | 27,370 | 1.9% | 0.07 | 2 | \$11 | 77% | 1.10 |
| PPL | Facility Energy Management | Mfg: Other | Motors | New | end use | 27,370 | 2.0% | 0.07 | 2 | \$11 | 77% | 1.10 |
| PPL | HE Motors | Mfg: Other | Motors | Early | end use | 27,370 | 2.0% | 0.08 | 15 | \$163 | 38% | 1.71 |
| PPL | HE Motors | Mfg: Other | Motors | New | end use | 27,370 | 2.0% | 0.08 | 15 | \$163 | 38% | 1.71 |
| PPL | HE Motors | Mfg: Other | Motors | ROB | end use | 27,370 | 2.0% | 0.08 | 15 | \$163 | 38% | 1.71 |
| PPL | High-Efficiency Ventilation System | Mfg: Other | Motors | Early | end use | 27,370 | 5.7% | 0.22 | 10 | \$1,710 | 73% | 0.37 |
| PPL | High-Efficiency Ventilation System | Mfg: Other | Motors | New | end use | 27,370 | 5.7% | 0.22 | 10 | \$1,710 | 73% | 0.37 |
| PPL | High-Efficiency Ventilation System | Mfg: Other | Motors | ROB | end use | 27,370 | 5.7% | 0.22 | 10 | \$1,710 | 73% | 0.37 |
| PPL | Improved Controls - Motors | Mfg: Other | Motors | Existing | end use | 27,370 | 4.0% | 0.15 | 10 | \$119 | 73% | 2.33 |
| PPL | Improved Controls - Motors | Mfg: Other | Motors | New | end use | 27,370 | 4.0% | 0.15 | 10 | \$119 | 73% | 2.33 |
| PPL | Motor Management Plan | Mfg: Other | Motors | Existing | end use | 27,370 | 2.9% | 0.11 | 10 | \$56 | 73% | 2.98 |
| PPL | Motor Management Plan | Mfg: Other | Motors | New | end use | 27,370 | 2.9% | 0.11 | 10 | \$56 | 73% | 2.99 |
| PPL | Motors Other | Mfg: Other | Motors | Existing | end use | 27,370 | 1.4% | 0.05 | 15 | \$6.9 | 83% | 6.80 |
| PPL | Motors Other | Mfg: Other | Motors | New | end use | 27,370 | 1.4% | 0.05 | 15 | \$6.9 | 83% | 6.81 |
| PPL | Motors: Rewind 101-200 HP | Mfg: Other | Motors | Existing | end use | 27,370 | 0.6% | 0.02 | 10 | \$35 | 27% | 1.42 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|------------|------------------------|----------|---------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Motors: Rewind 101-200 HP | Mfg: Other | Motors | New | end use | 27,370 | 0.6% | 0.02 | 10 | \$35 | 27% | 1.43 |
| PPL | Motors: Rewind 201-500 HP | Mfg: Other | Motors | Existing | end use | 27,370 | 0.6% | 0.02 | 8 | \$22 | 27% | 1.64 |
| PPL | Motors: Rewind 201-500 HP | Mfg: Other | Motors | New | end use | 27,370 | 0.6% | 0.02 | 8 | \$22 | 27% | 1.62 |
| PPL | Motors: Rewind 20-50 HP | Mfg: Other | Motors | Existing | end use | 27,370 | 1.0% | 0.04 | 11 | \$102 | 42% | 1.09 |
| PPL | Motors: Rewind 20-50 HP | Mfg: Other | Motors | New | end use | 27,370 | 1.0% | 0.04 | 11 | \$102 | 42% | 1.08 |
| PPL | Motors: Rewind 500+ HP | Mfg: Other | Motors | Existing | end use | 27,370 | 0.6% | 0.02 | 8 | \$16 | 11% | 2.05 |
| PPL | Motors: Rewind 500+ HP | Mfg: Other | Motors | New | end use | 27,370 | 0.6% | 0.02 | 8 | \$16 | 11% | 2.03 |
| PPL | Motors: Rewind 51-100 HP | Mfg: Other | Motors | Existing | end use | 27,370 | 0.6% | 0.02 | 9 | \$50 | 42% | 1.03 |
| PPL | Motors: Rewind 51-100 HP | Mfg: Other | Motors | New | end use | 27,370 | 0.6% | 0.02 | 9 | \$50 | 42% | 1.03 |
| PPL | Switch from Belt drive to Direct Drive | Mfg: Other | Motors | Early | end use | 27,370 | 7.5% | 0.29 | 12 | \$439 | 30% | 1.79 |
| PPL | Switch from Belt drive to Direct Drive | Mfg: Other | Motors | New | end use | 27,370 | 7.5% | 0.29 | 12 | \$439 | 30% | 1.79 |
| PPL | Switch from Belt drive to Direct Drive | Mfg: Other | Motors | ROB | end use | 27,370 | 7.5% | 0.29 | 12 | \$439 | 30% | 1.79 |
| PPL | Synchronous Belts | Mfg: Other | Motors | Early | end use | 27,370 | 1.2% | 0.05 | 10 | \$40 | 30% | 2.20 |
| PPL | Synchronous Belts | Mfg: Other | Motors | New | end use | 27,370 | 1.2% | 0.05 | 10 | \$40 | 30% | 2.20 |
| PPL | Synchronous Belts | Mfg: Other | Motors | ROB | end use | 27,370 | 1.2% | 0.05 | 10 | \$40 | 30% | 2.20 |
| PPL | Bldg Improvements | Mfg: Other | Other | Existing | end use | 37,743 | 16% | 0.73 | 15 | \$823 | 72% | 2.86 |
| PPL | Bldg Improvements | Mfg: Other | Other | New | end use | 37,743 | 16% | 0.73 | 15 | \$823 | 72% | 2.86 |
| PPL | Energy Project Management | Mfg: Other | Other | Existing | end use | 37,743 | 29% | 1.30 | 11 | \$1,347 | 63% | 2.30 |
| PPL | Energy Project Management | Mfg: Other | Other | New | end use | 37,743 | 29% | 1.30 | 11 | \$1,347 | 63% | 2.30 |
| PPL | Facility Energy Management | Mfg: Other | Other | Existing | end use | 37,743 | 1.9% | 0.08 | 2 | \$15 | 76% | 1.06 |
| PPL | Facility Energy Management | Mfg: Other | Other | New | end use | 37,743 | 1.9% | 0.08 | 2 | \$15 | 76% | 1.07 |
| PPL | Integrated Plant Energy Management | Mfg: Other | Other | Existing | end use | 37,743 | 50% | 2.25 | 11 | \$3,720 | 48% | 1.67 |
| PPL | Integrated Plant Energy Management | Mfg: Other | Other | New | end use | 37,743 | 50% | 2.25 | 11 | \$3,720 | 48% | 1.67 |
| PPL | Plant Energy Management | Mfg: Other | Other | Existing | end use | 37,743 | 12% | 0.54 | 10 | \$95 | 55% | 4.47 |
| PPL | Plant Energy Management | Mfg: Other | Other | New | end use | 37,743 | 12% | 0.54 | 10 | \$95 | 55% | 4.47 |
| PPL | Transformers | Mfg: Other | Other | Early | end use | 37,743 | 1.6% | 0.07 | 15 | \$121 | 34% | 2.19 |
| PPL | Transformers | Mfg: Other | Other | New | end use | 37,743 | 1.6% | 0.07 | 15 | \$121 | 34% | 2.17 |
| PPL | Transformers | Mfg: Other | Other | ROB | end use | 37,743 | 1.6% | 0.07 | 15 | \$121 | 34% | 2.19 |
| PPL | Air Compressor Demand Reduction | Mfg: Other | Process Air Compressor | Existing | end use | 1,548 | 26% | 0.05 | 10 | \$23 | 52% | 3.22 |
| PPL | Air Compressor Demand Reduction | Mfg: Other | Process Air Compressor | New | end use | 1,548 | 26% | 0.05 | 10 | \$23 | 52% | 3.22 |
| PPL | Air Compressor Equipment | Mfg: Other | Process Air Compressor | Early | end use | 1,548 | 39% | 0.08 | 10 | \$28 | 73% | 3.53 |
| PPL | Air Compressor Equipment | Mfg: Other | Process Air Compressor | New | end use | 1,548 | 39% | 0.08 | 10 | \$28 | 73% | 3.53 |
| PPL | Air Compressor Equipment | Mfg: Other | Process Air Compressor | ROB | end use | 1,548 | 39% | 0.08 | 10 | \$28 | 73% | 3.53 |
| PPL | Air Compressor Optimization | Mfg: Other | Process Air Compressor | Existing | end use | 1,548 | 39% | 0.08 | 10 | \$67 | 55% | 2.28 |
| PPL | Air Compressor Optimization | Mfg: Other | Process Air Compressor | New | end use | 1,548 | 39% | 0.08 | 10 | \$67 | 55% | 2.28 |
| PPL | Facility Energy Management | Mfg: Other | Process Air Compressor | Existing | end use | 1,548 | 1.9% | 0.00 | 2 | \$0.6 | 62% | 1.08 |
| PPL | Facility Energy Management | Mfg: Other | Process Air Compressor | New | end use | 1,548 | 1.9% | 0.00 | 2 | \$0.6 | 62% | 1.08 |
| PPL | HE Compressor motors | Mfg: Other | Process Air Compressor | Early | end use | 1,548 | 1.1% | 0.00 | 15 | \$5.8 | 73% | 1.45 |
| PPL | HE Compressor motors | Mfg: Other | Process Air Compressor | New | end use | 1,548 | 1.1% | 0.00 | 15 | \$5.8 | 73% | 1.44 |
| PPL | HE Compressor motors | Mfg: Other | Process Air Compressor | ROB | end use | 1,548 | 1.1% | 0.00 | 15 | \$5.8 | 73% | 1.45 |
| PPL | Improved Controls - Air Compressor | Mfg: Other | Process Air Compressor | Existing | end use | 1,548 | 41% | 0.08 | 10 | \$28 | 25% | 3.62 |
| PPL | Improved Controls - Air Compressor | Mfg: Other | Process Air Compressor | New | end use | 1,548 | 41% | 0.08 | 10 | \$28 | 25% | 3.62 |
| PPL | Low Pressure-drop Filters | Mfg: Other | Process Air Compressor | Existing | end use | 1,548 | 1.9% | 0.00 | 10 | \$18 | 61% | 0.61 |
| PPL | Low Pressure-drop Filters | Mfg: Other | Process Air Compressor | New | end use | 1,548 | 1.8% | 0.00 | 10 | \$18 | 61% | 0.60 |
| PPL | Outside Air Intake | Mfg: Other | Process Air Compressor | Existing | end use | 1,548 | 1.4% | 0.00 | 10 | \$10 | 48% | 0.78 |
| PPL | Outside Air Intake | Mfg: Other | Process Air Compressor | New | end use | 1,548 | 1.4% | 0.00 | 10 | \$10 | 48% | 0.79 |
| PPL | Receiver Capacity Addition | Mfg: Other | Process Air Compressor | Existing | end use | 1,548 | 6.0% | 0.01 | 10 | \$29 | 36% | 1.08 |
| PPL | Receiver Capacity Addition | Mfg: Other | Process Air Compressor | New | end use | 1,548 | 5.9% | 0.01 | 10 | \$29 | 36% | 1.08 |
| PPL | Refrigerated Cycling Dryers | Mfg: Other | Process Air Compressor | Early | end use | 1,548 | 1.7% | 0.00 | 10 | \$3.6 | 21% | 2.00 |
| PPL | Refrigerated Cycling Dryers | Mfg: Other | Process Air Compressor | New | end use | 1,548 | 1.7% | 0.00 | 10 | \$3.6 | 21% | 2.00 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---------------------------------------|------------|------------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Refrigerated Cycling Dryers | Mfg: Other | Process Air Compressor | ROB | end use | 1,548 | 1.7% | 0.00 | 10 | \$3.6 | 21% | 1.99 |
| PPL | VFD Controlled Compressor | Mfg: Other | Process Air Compressor | Early | end use | 1,548 | 24% | 0.05 | 10 | \$152 | 28% | 0.85 |
| PPL | VFD Controlled Compressor | Mfg: Other | Process Air Compressor | New | end use | 1,548 | 24% | 0.05 | 10 | \$152 | 28% | 0.85 |
| PPL | VFD Controlled Compressor | Mfg: Other | Process Air Compressor | ROB | end use | 1,548 | 24% | 0.05 | 10 | \$152 | 28% | 0.85 |
| PPL | Zero Loss Condensate Drain | Mfg: Other | Process Air Compressor | Early | end use | 1,548 | 1.9% | 0.00 | 10 | \$8.9 | 8% | 1.09 |
| PPL | Zero Loss Condensate Drain | Mfg: Other | Process Air Compressor | New | end use | 1,548 | 1.8% | 0.00 | 10 | \$8.9 | 8% | 1.09 |
| PPL | Zero Loss Condensate Drain | Mfg: Other | Process Air Compressor | ROB | end use | 1,548 | 1.8% | 0.00 | 10 | \$8.9 | 8% | 1.09 |
| PPL | Cooling Tower Optimization | Mfg: Other | Process Cooling | Existing | building | 22,553 | 20% | 1.61 | 10 | \$138 | 15% | 5.25 |
| PPL | Equipment: Chillers | Mfg: Other | Process Cooling | Early | end use | 22,553 | 18% | 0.84 | 15 | \$1,058 | 46% | 1.94 |
| PPL | Equipment: Chillers | Mfg: Other | Process Cooling | New | end use | 22,553 | 18% | 0.84 | 15 | \$1,058 | 46% | 1.94 |
| PPL | Equipment: Chillers | Mfg: Other | Process Cooling | ROB | end use | 22,553 | 18% | 0.84 | 15 | \$1,058 | 46% | 1.94 |
| PPL | Facility Energy Management | Mfg: Other | Process Cooling | Existing | end use | 22,553 | 1.9% | 0.09 | 2 | \$8.7 | 59% | 1.19 |
| PPL | Facility Energy Management | Mfg: Other | Process Cooling | New | end use | 22,553 | 1.9% | 0.09 | 2 | \$8.7 | 59% | 1.19 |
| PPL | Improved Controls - Process Cooling | Mfg: Other | Process Cooling | Existing | end use | 22,553 | 6.0% | 0.28 | 10 | \$1,191 | 56% | 0.48 |
| PPL | Improved Controls - Process Cooling | Mfg: Other | Process Cooling | New | end use | 22,553 | 6.0% | 0.28 | 10 | \$1,191 | 56% | 0.48 |
| PPL | VFD on Cooling Tower Fan | Mfg: Other | Process Cooling | Early | motor | 22,553 | 21% | 1.42 | 15 | \$1,039 | 20% | 2.46 |
| PPL | VFD on Cooling Tower Fan | Mfg: Other | Process Cooling | New | motor | 22,553 | 22% | 1.42 | 15 | \$1,059 | 20% | 2.44 |
| PPL | VFD on Cooling Tower Fan | Mfg: Other | Process Cooling | ROB | motor | 22,553 | 22% | 1.42 | 15 | \$1,059 | 20% | 2.44 |
| PPL | Improved Controls - Process Heating | Mfg: Other | Process Heating | Existing | end use | 77,209 | 17% | 1.81 | 10 | \$887 | 77% | 3.04 |
| PPL | Improved Controls - Process Heating | Mfg: Other | Process Heating | New | end use | 77,209 | 17% | 1.81 | 10 | \$887 | 77% | 3.04 |
| PPL | Process Heat O&M | Mfg: Other | Process Heating | Existing | end use | 77,209 | 16% | 1.72 | 2 | \$536 | 77% | 0.88 |
| PPL | Process Heat O&M | Mfg: Other | Process Heating | New | end use | 77,209 | 16% | 1.72 | 2 | \$536 | 77% | 0.88 |
| PPL | Facility Energy Management | Mfg: Other | Process Other | Existing | end use | 14,518 | 1.9% | 0.04 | 2 | \$5.6 | 73% | 1.10 |
| PPL | Facility Energy Management | Mfg: Other | Process Other | New | end use | 14,518 | 1.9% | 0.04 | 2 | \$5.6 | 73% | 1.09 |
| PPL | Adjustable speed drive on compressors | Mfg: Other | Process Refrigeration | Early | end use | 11,585 | 12% | 0.20 | 10 | \$214 | 64% | 1.97 |
| PPL | Adjustable speed drive on compressors | Mfg: Other | Process Refrigeration | New | end use | 11,585 | 12% | 0.20 | 10 | \$214 | 64% | 1.97 |
| PPL | Adjustable speed drive on compressors | Mfg: Other | Process Refrigeration | ROB | end use | 11,585 | 12% | 0.20 | 10 | \$214 | 64% | 1.97 |
| PPL | Cooling Tower Optimization | Mfg: Other | Process Refrigeration | Existing | building | 11,585 | 20% | 0.83 | 10 | \$71 | 15% | 5.25 |
| PPL | Optimization of operating parameters | Mfg: Other | Process Refrigeration | Existing | end use | 11,585 | 13% | 0.22 | 3 | \$94 | 57% | 1.11 |
| PPL | Optimization of operating parameters | Mfg: Other | Process Refrigeration | New | end use | 11,585 | 13% | 0.22 | 3 | \$94 | 57% | 1.11 |
| PPL | Synchronous Belts | Mfg: Other | Process Refrigeration | Early | end use | 11,585 | 1.2% | 0.02 | 10 | \$17 | 64% | 2.29 |
| PPL | Synchronous Belts | Mfg: Other | Process Refrigeration | New | end use | 11,585 | 1.2% | 0.02 | 10 | \$17 | 64% | 2.29 |
| PPL | Synchronous Belts | Mfg: Other | Process Refrigeration | ROB | end use | 11,585 | 1.2% | 0.02 | 10 | \$17 | 64% | 2.29 |
| PPL | VFD on Cooling Tower Fan | Mfg: Other | Process Refrigeration | Early | motor | 11,585 | 21% | 0.73 | 15 | \$534 | 20% | 2.46 |
| PPL | VFD on Cooling Tower Fan | Mfg: Other | Process Refrigeration | New | motor | 11,585 | 22% | 0.73 | 15 | \$544 | 20% | 2.44 |
| PPL | VFD on Cooling Tower Fan | Mfg: Other | Process Refrigeration | ROB | motor | 11,585 | 22% | 0.73 | 15 | \$544 | 20% | 2.44 |
| PPL | Facility Energy Management | Mfg: Other | Pumps | Existing | end use | 153,424 | 1.9% | 0.37 | 2 | \$59 | 73% | 1.08 |
| PPL | Facility Energy Management | Mfg: Other | Pumps | New | end use | 153,424 | 1.9% | 0.37 | 2 | \$59 | 73% | 1.08 |
| PPL | HE Motors | Mfg: Other | Pumps | Early | end use | 153,424 | 2.0% | 0.41 | 15 | \$913 | 77% | 1.69 |
| PPL | HE Motors | Mfg: Other | Pumps | New | end use | 153,424 | 2.0% | 0.41 | 15 | \$913 | 77% | 1.69 |
| PPL | HE Motors | Mfg: Other | Pumps | ROB | end use | 153,424 | 2.0% | 0.41 | 15 | \$913 | 77% | 1.69 |
| PPL | Motor rewinds | Mfg: Other | Pumps | Existing | end use | 153,424 | 0.6% | 0.12 | 9 | \$218 | 12% | 1.23 |
| PPL | Motor rewinds | Mfg: Other | Pumps | New | end use | 153,424 | 0.6% | 0.12 | 9 | \$218 | 12% | 1.22 |
| PPL | Pump Equipment Upgrade | Mfg: Other | Pumps | Early | end use | 153,424 | 20% | 3.99 | 12 | \$3,836 | 86% | 2.57 |
| PPL | Pump Equipment Upgrade | Mfg: Other | Pumps | New | end use | 153,424 | 20% | 3.99 | 12 | \$3,836 | 86% | 2.57 |
| PPL | Pump Equipment Upgrade | Mfg: Other | Pumps | ROB | end use | 153,424 | 20% | 3.99 | 12 | \$3,836 | 86% | 2.57 |
| PPL | Pump System Optimization | Mfg: Other | Pumps | Existing | end use | 153,424 | 8.7% | 1.74 | 12 | \$2,809 | 40% | 1.74 |
| PPL | Pump System Optimization | Mfg: Other | Pumps | New | end use | 153,424 | 8.7% | 1.74 | 12 | \$2,809 | 40% | 1.74 |
| PPL | Synchronous Belts | Mfg: Other | Pumps | Early | end use | 153,424 | 1.2% | 0.23 | 10 | \$226 | 64% | 2.16 |
| PPL | Synchronous Belts | Mfg: Other | Pumps | New | end use | 153,424 | 1.2% | 0.23 | 10 | \$226 | 64% | 2.16 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Synchronous Belts | Mfg: Other | Pumps | ROB | end use | 153,424 | 1.2% | 0.23 | 10 | \$226 | 64% | 2.16 |
| PPL | Circulating Fans | Mfg: Paper | Fans | Early | end use | 1,699,371 | 5.0% | 10.11 | 10 | \$10,345 | 68% | 2.28 |
| PPL | Circulating Fans | Mfg: Paper | Fans | New | end use | 1,699,371 | 5.0% | 10.11 | 10 | \$10,345 | 68% | 2.28 |
| PPL | Circulating Fans | Mfg: Paper | Fans | ROB | end use | 1,699,371 | 5.0% | 10.11 | 10 | \$10,345 | 68% | 2.28 |
| PPL | Efficient Centrifugal Fan | Mfg: Paper | Fans | Early | end use | 1,699,371 | 20% | 40.46 | 10 | \$61,795 | 68% | 1.73 |
| PPL | Efficient Centrifugal Fan | Mfg: Paper | Fans | New | end use | 1,699,371 | 20% | 40.46 | 10 | \$61,795 | 68% | 1.73 |
| PPL | Efficient Centrifugal Fan | Mfg: Paper | Fans | ROB | end use | 1,699,371 | 20% | 40.46 | 10 | \$61,795 | 68% | 1.73 |
| PPL | Facility Energy Management | Mfg: Paper | Fans | Existing | end use | 1,699,371 | 1.9% | 3.72 | 2 | \$655 | 77% | 1.07 |
| PPL | Facility Energy Management | Mfg: Paper | Fans | New | end use | 1,699,371 | 1.9% | 3.72 | 2 | \$655 | 77% | 1.07 |
| PPL | Fan Equipment Upgrade | Mfg: Paper | Fans | Early | end use | 1,699,371 | 35% | 70.80 | 10 | \$50,981 | 68% | 2.80 |
| PPL | Fan Equipment Upgrade | Mfg: Paper | Fans | New | end use | 1,699,371 | 35% | 70.80 | 10 | \$50,981 | 68% | 2.80 |
| PPL | Fan Equipment Upgrade | Mfg: Paper | Fans | ROB | end use | 1,699,371 | 35% | 70.80 | 10 | \$50,981 | 68% | 2.80 |
| PPL | Fan System Optimization | Mfg: Paper | Fans | Existing | end use | 1,699,371 | 7.3% | 14.84 | 10 | \$23,180 | 83% | 1.59 |
| PPL | Fan System Optimization | Mfg: Paper | Fans | New | end use | 1,699,371 | 7.3% | 14.84 | 10 | \$23,180 | 83% | 1.59 |
| PPL | HE Motors | Mfg: Paper | Fans | Early | end use | 1,699,371 | 2.0% | 4.14 | 15 | \$10,116 | 77% | 1.73 |
| PPL | HE Motors | Mfg: Paper | Fans | New | end use | 1,699,371 | 2.0% | 4.14 | 15 | \$10,116 | 77% | 1.73 |
| PPL | HE Motors | Mfg: Paper | Fans | ROB | end use | 1,699,371 | 2.0% | 4.14 | 15 | \$10,116 | 77% | 1.73 |
| PPL | Improved Controls - Fans | Mfg: Paper | Fans | Existing | end use | 1,699,371 | 7.1% | 14.37 | 10 | \$6,589 | 88% | 3.27 |
| PPL | Improved Controls - Fans | Mfg: Paper | Fans | New | end use | 1,699,371 | 7.1% | 14.37 | 10 | \$6,589 | 88% | 3.27 |
| PPL | Paper: Premium Fan | Mfg: Paper | Fans | Early | end use | 1,699,371 | 20% | 40.46 | 10 | \$61,795 | 61% | 1.73 |
| PPL | Paper: Premium Fan | Mfg: Paper | Fans | New | end use | 1,699,371 | 20% | 40.46 | 10 | \$61,795 | 61% | 1.73 |
| PPL | Paper: Premium Fan | Mfg: Paper | Fans | ROB | end use | 1,699,371 | 20% | 40.46 | 10 | \$61,795 | 61% | 1.73 |
| PPL | Properly Sized Fans | Mfg: Paper | Fans | Early | end use | 1,699,371 | 13% | 26.62 | 10 | \$34,805 | 41% | 1.93 |
| PPL | Properly Sized Fans | Mfg: Paper | Fans | New | end use | 1,699,371 | 13% | 26.62 | 10 | \$34,805 | 41% | 1.93 |
| PPL | Properly Sized Fans | Mfg: Paper | Fans | ROB | end use | 1,699,371 | 13% | 26.62 | 10 | \$34,805 | 41% | 1.93 |
| PPL | Synchronous Belts | Mfg: Paper | Fans | Early | end use | 1,699,371 | 1.2% | 2.36 | 10 | \$2,504 | 41% | 2.22 |
| PPL | Synchronous Belts | Mfg: Paper | Fans | New | end use | 1,699,371 | 1.2% | 2.36 | 10 | \$2,504 | 41% | 2.22 |
| PPL | Synchronous Belts | Mfg: Paper | Fans | ROB | end use | 1,699,371 | 1.2% | 2.36 | 10 | \$2,504 | 41% | 2.22 |
| PPL | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Paper | HVAC | Early | unit (ton) | 349,576 | 9.2% | 8.32 | 15 | \$63,679 | 28% | 0.34 |
| PPL | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Paper | HVAC | New | unit (ton) | 349,576 | 4.1% | 3.74 | 15 | \$15,428 | 28% | 0.61 |
| PPL | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Paper | HVAC | ROB | unit (ton) | 349,576 | 4.1% | 3.74 | 15 | \$15,428 | 28% | 0.61 |
| PPL | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Paper | HVAC | Early | unit (ton) | 349,576 | 12% | 11.25 | 15 | \$75,071 | 28% | 0.38 |
| PPL | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Paper | HVAC | New | unit (ton) | 349,576 | 7.7% | 6.97 | 15 | \$32,495 | 28% | 0.54 |
| PPL | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Paper | HVAC | ROB | unit (ton) | 349,576 | 7.7% | 6.97 | 15 | \$32,495 | 28% | 0.54 |
| PPL | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Paper | HVAC | Early | unit (ton) | 349,576 | 15% | 13.82 | 15 | \$86,463 | 29% | 0.41 |
| PPL | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Paper | HVAC | New | unit (ton) | 349,576 | 11% | 9.81 | 15 | \$49,562 | 29% | 0.50 |
| PPL | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Paper | HVAC | ROB | unit (ton) | 349,576 | 11% | 9.81 | 15 | \$49,562 | 29% | 0.50 |
| PPL | >760k min 10.2 EER Air Conditioner | Mfg: Paper | HVAC | Early | unit (ton) | 349,576 | 2.1% | 1.93 | 15 | \$110,893 | 35% | 0.05 |
| PPL | >760k min 10.2 EER Air Conditioner | Mfg: Paper | HVAC | New | unit (ton) | 349,576 | 2.8% | 2.56 | 15 | \$10,023 | 35% | 0.64 |
| PPL | >760k min 10.2 EER Air Conditioner | Mfg: Paper | HVAC | ROB | unit (ton) | 349,576 | 2.8% | 2.56 | 15 | \$10,023 | 35% | 0.64 |
| PPL | 135-240k min 12 EER Air Conditioner | Mfg: Paper | HVAC | Early | unit (ton) | 349,576 | 10% | 9.48 | 15 | \$120,080 | 35% | 0.21 |
| PPL | 135-240k min 12 EER Air Conditioner | Mfg: Paper | HVAC | New | unit (ton) | 349,576 | 5.8% | 5.23 | 15 | \$14,179 | 35% | 0.90 |
| PPL | 135-240k min 12 EER Air Conditioner | Mfg: Paper | HVAC | ROB | unit (ton) | 349,576 | 5.8% | 5.23 | 15 | \$14,179 | 35% | 0.90 |
| PPL | 240k-760k min 11 EER Air Conditioner | Mfg: Paper | HVAC | Early | unit (ton) | 349,576 | 5.2% | 4.72 | 15 | \$110,963 | 35% | 0.11 |
| PPL | 240k-760k min 11 EER Air Conditioner | Mfg: Paper | HVAC | New | unit (ton) | 349,576 | 5.3% | 4.84 | 15 | \$11,888 | 35% | 0.98 |
| PPL | 240k-760k min 11 EER Air Conditioner | Mfg: Paper | HVAC | ROB | unit (ton) | 349,576 | 5.3% | 4.84 | 15 | \$11,888 | 35% | 0.98 |
| PPL | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Paper | HVAC | Early | unit (ton) | 349,576 | 9.7% | 8.80 | 15 | \$122,952 | 35% | 0.19 |
| PPL | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Paper | HVAC | New | unit (ton) | 349,576 | 3.8% | 3.49 | 15 | \$17,542 | 35% | 0.50 |
| PPL | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Paper | HVAC | ROB | unit (ton) | 349,576 | 3.8% | 3.49 | 15 | \$17,542 | 35% | 0.50 |
| PPL | Ceiling Insualtions (Going upto R 20) | Mfg: Paper | HVAC | Existing | building | 349,576 | 5.9% | 5.19 | 15 | \$1,059,159 | 71% | 0.01 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Ceiling Insualtions (Going upto R 20) | Mfg: Paper | HVAC | New | building | 349,576 | 3.7% | 3.26 | 15 | \$1,006,760 | 94% | 0.01 |
| PPL | Chiller Tuneup/Diagnostics | Mfg: Paper | HVAC | Existing | building | 349,576 | 8.0% | 10.25 | 10 | \$892,623 | 59% | 0.02 |
| PPL | Chiller Tuneup/Diagnostics | Mfg: Paper | HVAC | New | building | 349,576 | 8.0% | 10.27 | 10 | \$892,623 | 59% | 0.02 |
| PPL | Cooling Tower Optimization | Mfg: Paper | HVAC | Existing | building | 349,576 | 20% | 25.02 | 10 | \$2,144 | 12% | 5.25 |
| PPL | Duct Insulation, Add R8 | Mfg: Paper | HVAC | Existing | building | 349,576 | 1.5% | 1.12 | 15 | \$2,777 | 18% | 1.10 |
| PPL | Duct Insulation, Add R8 | Mfg: Paper | HVAC | New | building | 349,576 | 1.5% | 1.12 | 15 | \$2,777 | 9% | 1.10 |
| PPL | Ductless Heat Pump | Mfg: Paper | HVAC | Early | heat pump | 349,576 | 0.8% | 0.65 | 15 | \$27,764 | 83% | 0.07 |
| PPL | Ductless Heat Pump | Mfg: Paper | HVAC | New | heat pump | 349,576 | 0.4% | 0.34 | 15 | \$8,063 | 83% | 0.13 |
| PPL | Ductless Heat Pump | Mfg: Paper | HVAC | ROB | heat pump | 349,576 | 0.4% | 0.34 | 15 | \$8,063 | 83% | 0.13 |
| PPL | DX Coil Cleaning | Mfg: Paper | HVAC | Existing | building | 349,576 | 13% | 16.04 | 1 | \$3,351 | 73% | 0.48 |
| PPL | DX Coil Cleaning | Mfg: Paper | HVAC | New | building | 349,576 | 13% | 16.03 | 1 | \$3,351 | 73% | 0.48 |
| PPL | Efficient Unit Heating System | Mfg: Paper | HVAC | Early | heater | 349,576 | 6.9% | 0.20 | 15 | \$18,831 | 83% | 0.62 |
| PPL | Efficient Unit Heating System | Mfg: Paper | HVAC | New | heater | 349,576 | 4.0% | 0.11 | 15 | \$12,845 | 83% | 0.53 |
| PPL | Efficient Unit Heating System | Mfg: Paper | HVAC | ROB | heater | 349,576 | 4.0% | 0.11 | 15 | \$12,845 | 83% | 0.53 |
| PPL | Ground Source Heat Pump (Closed Loop) | Mfg: Paper | HVAC | Early | heat pump | 349,576 | 1.3% | 1.02 | 15 | \$57,650 | 19% | 0.05 |
| PPL | Ground Source Heat Pump (Closed Loop) | Mfg: Paper | HVAC | New | heat pump | 349,576 | 1.0% | 0.80 | 15 | \$22,763 | 19% | 0.10 |
| PPL | Ground Source Heat Pump (Closed Loop) | Mfg: Paper | HVAC | ROB | heat pump | 349,576 | 1.0% | 0.80 | 15 | \$22,763 | 19% | 0.10 |
| PPL | Ground Source Heat Pump (Open Loop) | Mfg: Paper | HVAC | Early | heat pump | 349,576 | 1.3% | 1.02 | 15 | \$36,923 | 19% | 0.08 |
| PPL | Ground Source Heat Pump (Open Loop) | Mfg: Paper | HVAC | New | heat pump | 349,576 | 1.0% | 0.80 | 15 | \$783 | 19% | 2.32 |
| PPL | Ground Source Heat Pump (Open Loop) | Mfg: Paper | HVAC | ROB | heat pump | 349,576 | 1.0% | 0.80 | 15 | \$783 | 19% | 2.32 |
| PPL | HE Air Cooled Chiller, 100 Tons | Mfg: Paper | HVAC | Early | unit (ton) | 349,576 | 1.5% | 1.16 | 15 | \$410,980 | 89% | 0.01 |
| PPL | HE Air Cooled Chiller, 100 Tons | Mfg: Paper | HVAC | New | unit (ton) | 349,576 | 0.4% | 0.33 | 15 | \$59,872 | 89% | 0.02 |
| PPL | HE Air Cooled Chiller, 100 Tons | Mfg: Paper | HVAC | ROB | unit (ton) | 349,576 | 0.4% | 0.33 | 15 | \$59,872 | 89% | 0.02 |
| PPL | HE Air Cooled Chiller, 150 Tons | Mfg: Paper | HVAC | Early | unit (ton) | 349,576 | 1.5% | 1.15 | 15 | \$354,995 | 89% | 0.01 |
| PPL | HE Air Cooled Chiller, 150 Tons | Mfg: Paper | HVAC | New | unit (ton) | 349,576 | 0.3% | 0.24 | 15 | \$29,403 | 89% | 0.02 |
| PPL | HE Air Cooled Chiller, 150 Tons | Mfg: Paper | HVAC | ROB | unit (ton) | 349,576 | 0.3% | 0.24 | 15 | \$29,403 | 89% | 0.02 |
| PPL | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Paper | HVAC | Early | heat pump | 349,576 | 1.4% | 1.08 | 12 | \$15,049 | 81% | 0.17 |
| PPL | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Paper | HVAC | Early | heat pump | 349,576 | 1.1% | 0.89 | 12 | \$10,995 | 81% | 0.20 |
| PPL | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Paper | HVAC | New | heat pump | 349,576 | 1.0% | 0.80 | 12 | \$6,719 | 81% | 0.29 |
| PPL | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Paper | HVAC | New | heat pump | 349,576 | 0.8% | 0.60 | 12 | \$2,349 | 81% | 0.58 |
| PPL | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Paper | HVAC | ROB | heat pump | 349,576 | 1.0% | 0.80 | 12 | \$6,719 | 81% | 0.29 |
| PPL | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Paper | HVAC | ROB | heat pump | 349,576 | 0.8% | 0.60 | 12 | \$2,349 | 81% | 0.58 |
| PPL | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Paper | HVAC | Early | unit (ton) | 349,576 | 1.6% | 1.26 | 15 | \$32,609 | 89% | 0.11 |
| PPL | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Paper | HVAC | New | unit (ton) | 349,576 | 0.9% | 0.73 | 15 | \$10,846 | 89% | 0.20 |
| PPL | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Paper | HVAC | ROB | unit (ton) | 349,576 | 0.9% | 0.73 | 15 | \$10,846 | 89% | 0.20 |
| PPL | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Paper | HVAC | Early | unit (ton) | 349,576 | 1.4% | 1.12 | 15 | \$31,847 | 89% | 0.10 |
| PPL | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Paper | HVAC | New | unit (ton) | 349,576 | 1.0% | 0.78 | 15 | \$6,219 | 89% | 0.36 |
| PPL | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Paper | HVAC | ROB | unit (ton) | 349,576 | 1.4% | 1.12 | 15 | \$5,713 | 89% | 0.55 |
| PPL | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Paper | HVAC | Early | unit (ton) | 349,576 | 1.4% | 1.10 | 15 | \$37,694 | 89% | 0.09 |
| PPL | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Paper | HVAC | New | unit (ton) | 349,576 | 0.9% | 0.71 | 15 | \$15,870 | 89% | 0.13 |
| PPL | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Paper | HVAC | ROB | unit (ton) | 349,576 | 1.4% | 1.10 | 15 | \$14,363 | 89% | 0.22 |
| PPL | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Paper | HVAC | Early | unit (ton) | 349,576 | 1.4% | 1.10 | 15 | \$36,309 | 89% | 0.09 |
| PPL | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Paper | HVAC | New | unit (ton) | 349,576 | 0.9% | 0.71 | 15 | \$13,795 | 89% | 0.15 |
| PPL | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Paper | HVAC | ROB | unit (ton) | 349,576 | 1.4% | 1.10 | 15 | \$12,485 | 89% | 0.26 |
| PPL | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Paper | HVAC | Early | unit (ton) | 349,576 | 1.8% | 1.43 | 15 | \$39,124 | 89% | 0.11 |
| PPL | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Paper | HVAC | New | unit (ton) | 349,576 | 0.6% | 0.44 | 15 | \$24,226 | 89% | 0.05 |
| PPL | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Paper | HVAC | ROB | unit (ton) | 349,576 | 1.8% | 1.43 | 15 | \$18,811 | 89% | 0.22 |
| PPL | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Paper | HVAC | Early | unit (ton) | 349,576 | 2.2% | 1.70 | 15 | \$35,985 | 89% | 0.14 |
| PPL | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Paper | HVAC | New | unit (ton) | 349,576 | 0.8% | 0.61 | 15 | \$14,440 | 89% | 0.13 |
| PPL | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Paper | HVAC | ROB | unit (ton) | 349,576 | 0.8% | 0.61 | 15 | \$14,440 | 89% | 0.13 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|------------|----------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Paper | HVAC | Early | unit (ton) | 349,576 | 2.4% | 1.91 | 15 | \$30,499 | 89% | 0.18 |
| PPL | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Paper | HVAC | New | unit (ton) | 349,576 | 0.9% | 0.71 | 15 | \$7,674 | 89% | 0.27 |
| PPL | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Paper | HVAC | ROB | unit (ton) | 349,576 | 2.4% | 1.91 | 15 | \$5,472 | 89% | 0.94 |
| PPL | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Paper | HVAC | Early | unit (ton) | 349,576 | 1.8% | 1.44 | 15 | \$30,192 | 89% | 0.14 |
| PPL | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Paper | HVAC | New | unit (ton) | 349,576 | 0.7% | 0.54 | 15 | \$8,454 | 89% | 0.19 |
| PPL | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Paper | HVAC | ROB | unit (ton) | 349,576 | 1.8% | 1.44 | 15 | \$6,698 | 89% | 0.60 |
| PPL | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Paper | HVAC | Existing | building | 349,576 | 2.9% | 2.06 | 5 | \$3,709 | 55% | 0.57 |
| PPL | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Paper | HVAC | New | building | 349,576 | 0.6% | 0.81 | 5 | \$2,225 | 51% | 0.28 |
| PPL | Improved Controls - HVAC | Mfg: Paper | HVAC | Existing | end use | 349,576 | 21% | 10.48 | 10 | \$3,675 | 76% | 3.49 |
| PPL | Improved Controls - HVAC | Mfg: Paper | HVAC | New | end use | 349,576 | 21% | 10.48 | 10 | \$3,675 | 76% | 3.49 |
| PPL | Outside Air Economizer | Mfg: Paper | HVAC | Existing | building | 349,576 | 1.1% | 0.98 | 10 | \$1,284,407 | 82% | 0.00 |
| PPL | Outside Air Economizer | Mfg: Paper | HVAC | New | building | 349,576 | 1.1% | 0.98 | 10 | \$1,284,407 | 82% | 0.00 |
| PPL | Recommissioning | Mfg: Paper | HVAC | Existing | end use | 349,576 | 5.0% | 2.51 | 10 | \$479 | 88% | 4.30 |
| PPL | Recommissioning | Mfg: Paper | HVAC | New | end use | 349,576 | 5.0% | 2.51 | 10 | \$479 | 88% | 4.30 |
| PPL | Room AC (with louvered sides) | Mfg: Paper | HVAC | Early | unit (ton) | 349,576 | 7.7% | 6.07 | 9 | \$27,399 | 78% | 0.39 |
| PPL | Room AC (with louvered sides) | Mfg: Paper | HVAC | New | unit (ton) | 349,576 | 2.6% | 2.02 | 9 | \$1,500 | 78% | 1.77 |
| PPL | Room AC (with louvered sides) | Mfg: Paper | HVAC | ROB | unit (ton) | 349,576 | 2.6% | 2.02 | 9 | \$1,500 | 78% | 1.77 |
| PPL | Variable Refrigerant Flow Heat Pump | Mfg: Paper | HVAC | New | measure | 349,576 | 0.1% | 0.09 | 13 | \$2,585 | 43% | 0.09 |
| PPL | Variable Refrigerant Flow Heat Pump | Mfg: Paper | HVAC | ROB | measure | 349,576 | 0.1% | 0.09 | 13 | \$2,585 | 43% | 0.09 |
| PPL | VFD on Cooling Tower Fan | Mfg: Paper | HVAC | Early | motor | 349,576 | 21% | 22.00 | 15 | \$16,107 | 20% | 2.52 |
| PPL | VFD on Cooling Tower Fan | Mfg: Paper | HVAC | New | motor | 349,576 | 22% | 22.00 | 15 | \$16,414 | 15% | 2.51 |
| PPL | VFD on Cooling Tower Fan | Mfg: Paper | HVAC | ROB | motor | 349,576 | 22% | 22.00 | 15 | \$16,414 | 15% | 2.51 |
| PPL | Wall Insualtions (Going upto R 21) | Mfg: Paper | HVAC | Existing | building | 349,576 | 19% | 16.71 | 15 | \$248,676 | 26% | 0.18 |
| PPL | Wall Insualtions (Going upto R 21) | Mfg: Paper | HVAC | New | building | 349,576 | 0.6% | 0.53 | 15 | \$190,746 | 94% | 0.01 |
| PPL | Water Source Heat Pump (4 ton) | Mfg: Paper | HVAC | Early | heat pump | 349,576 | 1.5% | 1.21 | 15 | \$59,700 | 6% | 0.06 |
| PPL | Water Source Heat Pump (4 ton) | Mfg: Paper | HVAC | New | heat pump | 349,576 | 1.1% | 0.89 | 15 | \$29,096 | 6% | 0.09 |
| PPL | Water Source Heat Pump (4 ton) | Mfg: Paper | HVAC | ROB | heat pump | 349,576 | 1.1% | 0.89 | 15 | \$29,096 | 6% | 0.09 |
| PPL | Efficient Metal Halide (High Bay) | Mfg: Paper | Lighting | Early | end use | 355,025 | 42% | 0.00 | 9 | \$55,477 | 53% | 0.76 |
| PPL | Efficient Metal Halide (High Bay) | Mfg: Paper | Lighting | New | end use | 355,025 | 41% | 0.00 | 13 | \$1,481,807 | 61% | 0.05 |
| PPL | Efficient Metal Halide (High Bay) | Mfg: Paper | Lighting | ROB | end use | 355,025 | 41% | 0.00 | 13 | \$1,132,479 | 61% | 0.06 |
| PPL | Induction (High Bay) | Mfg: Paper | Lighting | Early | end use | 355,025 | 94% | 0.00 | 13 | \$165,068 | 95% | 0.85 |
| PPL | Induction (High Bay) | Mfg: Paper | Lighting | New | end use | 355,025 | 94% | 0.00 | 13 | \$154,544 | 95% | 0.90 |
| PPL | Induction (High Bay) | Mfg: Paper | Lighting | ROB | end use | 355,025 | 94% | 0.00 | 13 | \$117,459 | 95% | 1.14 |
| PPL | LED (High Bay) | Mfg: Paper | Lighting | Early | end use | 355,025 | 69% | 0.00 | 14 | \$194,309 | 95% | 0.59 |
| PPL | LED (High Bay) | Mfg: Paper | Lighting | New | end use | 355,025 | 55% | 0.00 | 14 | \$215,678 | 95% | 0.43 |
| PPL | LED (High Bay) | Mfg: Paper | Lighting | ROB | end use | 355,025 | 59% | 0.00 | 14 | \$142,107 | 95% | 0.68 |
| PPL | Lighting Controls | Mfg: Paper | Lighting | Existing | end use | 355,025 | 20% | 0.00 | 6 | \$1,330,948 | 16% | 0.01 |
| PPL | Lighting Controls | Mfg: Paper | Lighting | New | end use | 355,025 | 12% | 0.00 | 10 | \$1,770,596 | 11% | 0.01 |
| PPL | Linear Fluorescent (High Bay) | Mfg: Paper | Lighting | Early | end use | 355,025 | 17% | 0.00 | 14 | \$40,622 | 98% | 0.68 |
| PPL | Linear Fluorescent (High Bay) | Mfg: Paper | Lighting | New | end use | 355,025 | 13% | 0.00 | 14 | \$12,883 | 91% | 1.43 |
| PPL | Linear Fluorescent (High Bay) | Mfg: Paper | Lighting | ROB | end use | 355,025 | 13% | 0.00 | 14 | \$8,248 | 91% | 2.07 |
| PPL | Metal Halide (High Bay) | Mfg: Paper | Lighting | Early | end use | 355,025 | 62% | 0.00 | 13 | \$244,057 | 38% | 0.41 |
| PPL | Metal Halide (High Bay) | Mfg: Paper | Lighting | New | end use | 355,025 | 73% | 0.00 | 13 | \$58,351 | 38% | 1.61 |
| PPL | Metal Halide (High Bay) | Mfg: Paper | Lighting | ROB | end use | 355,025 | 73% | 0.00 | 13 | \$44,347 | 38% | 1.97 |
| PPL | Screw Base CFL | Mfg: Paper | Lighting | Early | end use | 355,025 | 80% | 0.00 | 7 | \$96,453 | 17% | 0.66 |
| PPL | Screw Base CFL | Mfg: Paper | Lighting | New | end use | 355,025 | 73% | 0.00 | 9 | \$78,825 | 18% | 0.90 |
| PPL | Screw Base CFL | Mfg: Paper | Lighting | ROB | end use | 355,025 | 73% | 0.00 | 9 | \$65,976 | 17% | 1.03 |
| PPL | Screw Base LED | Mfg: Paper | Lighting | Early | end use | 355,025 | 76% | 0.00 | 9 | \$59,194 | 21% | 1.21 |
| PPL | Screw Base LED | Mfg: Paper | Lighting | New | end use | 355,025 | 77% | 0.00 | 9 | \$32,975 | 20% | 1.84 |
| PPL | Screw Base LED | Mfg: Paper | Lighting | ROB | end use | 355,025 | 77% | 0.00 | 9 | \$26,177 | 21% | 2.12 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---------------------------------------|------------|----------|----------|---------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | T8 High Performance Linear Florescent | Mfg: Paper | Lighting | Early | end use | 355,025 | 36% | 0.00 | 14 | \$33,973 | 71% | 1.52 |
| PPL | T8 High Performance Linear Florescent | Mfg: Paper | Lighting | New | end use | 355,025 | 26% | 0.00 | 14 | \$12,155 | 76% | 2.56 |
| PPL | T8 High Performance Linear Florescent | Mfg: Paper | Lighting | ROB | end use | 355,025 | 26% | 0.00 | 14 | \$9,238 | 76% | 3.03 |
| PPL | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Paper | Motors | Early | end use | 536,517 | 0.9% | 0.70 | 15 | \$8,196 | 81% | 0.36 |
| PPL | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Paper | Motors | New | end use | 536,517 | 0.9% | 0.70 | 15 | \$8,196 | 81% | 0.36 |
| PPL | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Paper | Motors | ROB | end use | 536,517 | 0.9% | 0.70 | 15 | \$8,196 | 81% | 0.36 |
| PPL | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Paper | Motors | Early | end use | 536,517 | 0.8% | 0.57 | 15 | \$4,977 | 73% | 0.48 |
| PPL | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Paper | Motors | New | end use | 536,517 | 0.8% | 0.57 | 15 | \$4,977 | 73% | 0.48 |
| PPL | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Paper | Motors | ROB | end use | 536,517 | 0.8% | 0.57 | 15 | \$4,977 | 73% | 0.47 |
| PPL | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Paper | Motors | Early | end use | 536,517 | 0.5% | 0.34 | 15 | \$1,908 | 81% | 0.74 |
| PPL | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Paper | Motors | New | end use | 536,517 | 0.4% | 0.34 | 15 | \$1,908 | 81% | 0.71 |
| PPL | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Paper | Motors | ROB | end use | 536,517 | 0.5% | 0.34 | 15 | \$1,908 | 81% | 0.73 |
| PPL | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Paper | Motors | Early | end use | 536,517 | 0.4% | 0.30 | 15 | \$630 | 73% | 1.67 |
| PPL | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Paper | Motors | New | end use | 536,517 | 0.4% | 0.30 | 15 | \$630 | 73% | 1.68 |
| PPL | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Paper | Motors | ROB | end use | 536,517 | 0.4% | 0.30 | 15 | \$630 | 73% | 1.70 |
| PPL | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Paper | Motors | Early | end use | 536,517 | 0.9% | 0.70 | 15 | \$944 | 47% | 2.37 |
| PPL | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Paper | Motors | New | end use | 536,517 | 0.9% | 0.70 | 15 | \$944 | 47% | 2.37 |
| PPL | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Paper | Motors | ROB | end use | 536,517 | 0.9% | 0.70 | 15 | \$944 | 47% | 2.37 |
| PPL | Facility Energy Management | Mfg: Paper | Motors | Existing | end use | 536,517 | 1.9% | 1.41 | 2 | \$207 | 77% | 1.10 |
| PPL | Facility Energy Management | Mfg: Paper | Motors | New | end use | 536,517 | 1.9% | 1.41 | 2 | \$207 | 77% | 1.10 |
| PPL | HE Motors | Mfg: Paper | Motors | Early | end use | 536,517 | 2.0% | 1.57 | 15 | \$3,194 | 38% | 1.71 |
| PPL | HE Motors | Mfg: Paper | Motors | New | end use | 536,517 | 2.0% | 1.57 | 15 | \$3,194 | 38% | 1.71 |
| PPL | HE Motors | Mfg: Paper | Motors | ROB | end use | 536,517 | 2.0% | 1.57 | 15 | \$3,194 | 38% | 1.71 |
| PPL | High-Efficiency Ventilation System | Mfg: Paper | Motors | Early | end use | 536,517 | 5.7% | 4.34 | 10 | \$33,528 | 73% | 0.37 |
| PPL | High-Efficiency Ventilation System | Mfg: Paper | Motors | New | end use | 536,517 | 5.7% | 4.34 | 10 | \$33,528 | 73% | 0.37 |
| PPL | High-Efficiency Ventilation System | Mfg: Paper | Motors | ROB | end use | 536,517 | 5.7% | 4.34 | 10 | \$33,528 | 73% | 0.37 |
| PPL | Improved Controls - Motors | Mfg: Paper | Motors | Existing | end use | 536,517 | 4.0% | 3.03 | 10 | \$2,332 | 73% | 2.33 |
| PPL | Improved Controls - Motors | Mfg: Paper | Motors | New | end use | 536,517 | 4.0% | 3.03 | 10 | \$2,332 | 73% | 2.33 |
| PPL | Material Handling | Mfg: Paper | Motors | Early | end use | 536,517 | 18% | 14.11 | 10 | \$25,935 | 77% | 1.30 |
| PPL | Material Handling | Mfg: Paper | Motors | New | end use | 536,517 | 18% | 14.11 | 10 | \$25,935 | 77% | 1.30 |
| PPL | Material Handling | Mfg: Paper | Motors | ROB | end use | 536,517 | 18% | 14.11 | 10 | \$25,935 | 77% | 1.30 |
| PPL | Material Handling VFD | Mfg: Paper | Motors | Early | end use | 536,517 | 16% | 12.35 | 10 | \$17,937 | 77% | 1.56 |
| PPL | Material Handling VFD | Mfg: Paper | Motors | New | end use | 536,517 | 16% | 12.35 | 10 | \$17,937 | 77% | 1.56 |
| PPL | Material Handling VFD | Mfg: Paper | Motors | ROB | end use | 536,517 | 16% | 12.35 | 10 | \$17,937 | 77% | 1.56 |
| PPL | Motor Management Plan | Mfg: Paper | Motors | Existing | end use | 536,517 | 2.9% | 2.21 | 10 | \$1,094 | 73% | 2.99 |
| PPL | Motor Management Plan | Mfg: Paper | Motors | New | end use | 536,517 | 2.9% | 2.21 | 10 | \$1,094 | 73% | 2.98 |
| PPL | Motors Other | Mfg: Paper | Motors | Existing | end use | 536,517 | 1.4% | 1.07 | 15 | \$136 | 83% | 6.80 |
| PPL | Motors Other | Mfg: Paper | Motors | New | end use | 536,517 | 1.4% | 1.07 | 15 | \$136 | 83% | 6.80 |
| PPL | Motors: Rewind 101-200 HP | Mfg: Paper | Motors | Existing | end use | 536,517 | 0.6% | 0.42 | 10 | \$678 | 27% | 1.41 |
| PPL | Motors: Rewind 101-200 HP | Mfg: Paper | Motors | New | end use | 536,517 | 0.6% | 0.42 | 10 | \$678 | 27% | 1.41 |
| PPL | Motors: Rewind 201-500 HP | Mfg: Paper | Motors | Existing | end use | 536,517 | 0.6% | 0.42 | 8 | \$426 | 27% | 1.64 |
| PPL | Motors: Rewind 201-500 HP | Mfg: Paper | Motors | New | end use | 536,517 | 0.6% | 0.42 | 8 | \$426 | 27% | 1.62 |
| PPL | Motors: Rewind 20-50 HP | Mfg: Paper | Motors | Existing | end use | 536,517 | 1.0% | 0.79 | 11 | \$1,992 | 42% | 1.09 |
| PPL | Motors: Rewind 20-50 HP | Mfg: Paper | Motors | New | end use | 536,517 | 1.0% | 0.79 | 11 | \$1,992 | 42% | 1.09 |
| PPL | Motors: Rewind 500+ HP | Mfg: Paper | Motors | Existing | end use | 536,517 | 0.6% | 0.43 | 8 | \$304 | 11% | 2.03 |
| PPL | Motors: Rewind 500+ HP | Mfg: Paper | Motors | New | end use | 536,517 | 0.6% | 0.43 | 8 | \$304 | 11% | 2.03 |
| PPL | Motors: Rewind 51-100 HP | Mfg: Paper | Motors | Existing | end use | 536,517 | 0.6% | 0.46 | 9 | \$983 | 42% | 1.03 |
| PPL | Motors: Rewind 51-100 HP | Mfg: Paper | Motors | New | end use | 536,517 | 0.6% | 0.46 | 9 | \$983 | 42% | 1.03 |
| PPL | Paper: Large Material Handling | Mfg: Paper | Motors | Early | end use | 536,517 | 9.7% | 7.47 | 10 | \$40,190 | 64% | 0.52 |
| PPL | Paper: Large Material Handling | Mfg: Paper | Motors | New | end use | 536,517 | 9.7% | 7.47 | 10 | \$40,190 | 64% | 0.52 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|------------|------------------------|----------|---------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Paper: Large Material Handling | Mfg: Paper | Motors | ROB | end use | 536,517 | 9.7% | 7.47 | 10 | \$40,190 | 64% | 0.51 |
| PPL | Paper: Material Handling | Mfg: Paper | Motors | Early | end use | 536,517 | 13% | 10.05 | 10 | \$45,214 | 64% | 0.61 |
| PPL | Paper: Material Handling | Mfg: Paper | Motors | New | end use | 536,517 | 13% | 10.05 | 10 | \$45,214 | 64% | 0.61 |
| PPL | Paper: Material Handling | Mfg: Paper | Motors | ROB | end use | 536,517 | 13% | 10.05 | 10 | \$45,214 | 64% | 0.61 |
| PPL | Paper: Premium Control Large Material | Mfg: Paper | Motors | Existing | end use | 536,517 | 19% | 14.36 | 10 | \$44,209 | 69% | 0.82 |
| PPL | Paper: Premium Control Large Material | Mfg: Paper | Motors | New | end use | 536,517 | 19% | 14.36 | 10 | \$44,209 | 69% | 0.82 |
| PPL | Switch from Belt drive to Direct Drive | Mfg: Paper | Motors | Early | end use | 536,517 | 7.5% | 5.75 | 12 | \$8,608 | 30% | 1.79 |
| PPL | Switch from Belt drive to Direct Drive | Mfg: Paper | Motors | New | end use | 536,517 | 7.5% | 5.75 | 12 | \$8,608 | 30% | 1.79 |
| PPL | Switch from Belt drive to Direct Drive | Mfg: Paper | Motors | ROB | end use | 536,517 | 7.5% | 5.75 | 12 | \$8,608 | 30% | 1.79 |
| PPL | Synchronous Belts | Mfg: Paper | Motors | Early | end use | 536,517 | 1.2% | 0.89 | 10 | \$791 | 30% | 2.20 |
| PPL | Synchronous Belts | Mfg: Paper | Motors | New | end use | 536,517 | 1.2% | 0.89 | 10 | \$791 | 30% | 2.20 |
| PPL | Synchronous Belts | Mfg: Paper | Motors | ROB | end use | 536,517 | 1.2% | 0.89 | 10 | \$791 | 30% | 2.20 |
| PPL | Bldg Improvements | Mfg: Paper | Other | Existing | end use | 98,664 | 16% | 1.90 | 15 | \$2,151 | 72% | 2.86 |
| PPL | Bldg Improvements | Mfg: Paper | Other | New | end use | 98,664 | 16% | 1.90 | 15 | \$2,151 | 72% | 2.86 |
| PPL | Energy Project Management | Mfg: Paper | Other | Existing | end use | 98,664 | 29% | 3.41 | 11 | \$3,522 | 63% | 2.30 |
| PPL | Energy Project Management | Mfg: Paper | Other | New | end use | 98,664 | 29% | 3.41 | 11 | \$3,522 | 63% | 2.30 |
| PPL | Facility Energy Management | Mfg: Paper | Other | Existing | end use | 98,664 | 1.9% | 0.22 | 2 | \$38 | 76% | 1.07 |
| PPL | Facility Energy Management | Mfg: Paper | Other | New | end use | 98,664 | 1.9% | 0.22 | 2 | \$38 | 76% | 1.07 |
| PPL | Integrated Plant Energy Management | Mfg: Paper | Other | Existing | end use | 98,664 | 50% | 5.87 | 11 | \$9,725 | 48% | 1.67 |
| PPL | Integrated Plant Energy Management | Mfg: Paper | Other | New | end use | 98,664 | 50% | 5.87 | 11 | \$9,725 | 48% | 1.67 |
| PPL | Plant Energy Management | Mfg: Paper | Other | Existing | end use | 98,664 | 12% | 1.41 | 10 | \$248 | 55% | 4.47 |
| PPL | Plant Energy Management | Mfg: Paper | Other | New | end use | 98,664 | 12% | 1.41 | 10 | \$248 | 55% | 4.47 |
| PPL | Transformers | Mfg: Paper | Other | Early | end use | 98,664 | 1.6% | 0.19 | 15 | \$315 | 34% | 2.17 |
| PPL | Transformers | Mfg: Paper | Other | New | end use | 98,664 | 1.6% | 0.19 | 15 | \$315 | 34% | 2.17 |
| PPL | Transformers | Mfg: Paper | Other | ROB | end use | 98,664 | 1.6% | 0.19 | 15 | \$315 | 34% | 2.18 |
| PPL | Air Compressor Demand Reduction | Mfg: Paper | Process Air Compressor | Existing | end use | 16,168 | 26% | 0.54 | 10 | \$242 | 40% | 3.22 |
| PPL | Air Compressor Demand Reduction | Mfg: Paper | Process Air Compressor | New | end use | 16,168 | 26% | 0.54 | 10 | \$242 | 40% | 3.22 |
| PPL | Air Compressor Equipment | Mfg: Paper | Process Air Compressor | Early | end use | 16,168 | 39% | 0.81 | 10 | \$293 | 56% | 3.53 |
| PPL | Air Compressor Equipment | Mfg: Paper | Process Air Compressor | New | end use | 16,168 | 39% | 0.81 | 10 | \$293 | 56% | 3.53 |
| PPL | Air Compressor Equipment | Mfg: Paper | Process Air Compressor | ROB | end use | 16,168 | 39% | 0.81 | 10 | \$293 | 56% | 3.53 |
| PPL | Air Compressor Optimization | Mfg: Paper | Process Air Compressor | Existing | end use | 16,168 | 39% | 0.83 | 10 | \$705 | 42% | 2.28 |
| PPL | Air Compressor Optimization | Mfg: Paper | Process Air Compressor | New | end use | 16,168 | 39% | 0.83 | 10 | \$705 | 42% | 2.28 |
| PPL | Facility Energy Management | Mfg: Paper | Process Air Compressor | Existing | end use | 16,168 | 1.9% | 0.04 | 2 | \$6.2 | 50% | 1.08 |
| PPL | Facility Energy Management | Mfg: Paper | Process Air Compressor | New | end use | 16,168 | 1.9% | 0.04 | 2 | \$6.2 | 50% | 1.08 |
| PPL | HE Compressor motors | Mfg: Paper | Process Air Compressor | Early | end use | 16,168 | 1.1% | 0.02 | 15 | \$61 | 56% | 1.44 |
| PPL | HE Compressor motors | Mfg: Paper | Process Air Compressor | New | end use | 16,168 | 1.1% | 0.02 | 15 | \$61 | 56% | 1.45 |
| PPL | HE Compressor motors | Mfg: Paper | Process Air Compressor | ROB | end use | 16,168 | 1.1% | 0.02 | 15 | \$61 | 56% | 1.45 |
| PPL | Improved Controls - Air Compressor | Mfg: Paper | Process Air Compressor | Existing | end use | 16,168 | 41% | 0.85 | 10 | \$289 | 19% | 3.62 |
| PPL | Improved Controls - Air Compressor | Mfg: Paper | Process Air Compressor | New | end use | 16,168 | 41% | 0.85 | 10 | \$289 | 19% | 3.62 |
| PPL | Low Pressure-drop Filters | Mfg: Paper | Process Air Compressor | Existing | end use | 16,168 | 1.8% | 0.04 | 10 | \$183 | 46% | 0.60 |
| PPL | Low Pressure-drop Filters | Mfg: Paper | Process Air Compressor | New | end use | 16,168 | 1.8% | 0.04 | 10 | \$183 | 46% | 0.60 |
| PPL | Outside Air Intake | Mfg: Paper | Process Air Compressor | Existing | end use | 16,168 | 1.4% | 0.03 | 10 | \$106 | 37% | 0.78 |
| PPL | Outside Air Intake | Mfg: Paper | Process Air Compressor | New | end use | 16,168 | 1.4% | 0.03 | 10 | \$106 | 37% | 0.78 |
| PPL | Receiver Capacity Addition | Mfg: Paper | Process Air Compressor | Existing | end use | 16,168 | 6.0% | 0.12 | 10 | \$301 | 28% | 1.08 |
| PPL | Receiver Capacity Addition | Mfg: Paper | Process Air Compressor | New | end use | 16,168 | 5.9% | 0.12 | 10 | \$301 | 28% | 1.08 |
| PPL | Refrigerated Cycling Dryers | Mfg: Paper | Process Air Compressor | Early | end use | 16,168 | 1.7% | 0.04 | 10 | \$37 | 16% | 2.00 |
| PPL | Refrigerated Cycling Dryers | Mfg: Paper | Process Air Compressor | New | end use | 16,168 | 1.7% | 0.04 | 10 | \$37 | 16% | 1.99 |
| PPL | Refrigerated Cycling Dryers | Mfg: Paper | Process Air Compressor | ROB | end use | 16,168 | 1.7% | 0.04 | 10 | \$37 | 16% | 1.99 |
| PPL | VFD Controlled Compressor | Mfg: Paper | Process Air Compressor | Early | end use | 16,168 | 24% | 0.50 | 10 | \$1,592 | 22% | 0.85 |
| PPL | VFD Controlled Compressor | Mfg: Paper | Process Air Compressor | New | end use | 16,168 | 24% | 0.50 | 10 | \$1,592 | 22% | 0.85 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---------------------------------------|------------|------------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | VFD Controlled Compressor | Mfg: Paper | Process Air Compressor | ROB | end use | 16,168 | 24% | 0.50 | 10 | \$1,592 | 22% | 0.85 |
| PPL | Zero Loss Condensate Drain | Mfg: Paper | Process Air Compressor | Early | end use | 16,168 | 1.9% | 0.04 | 10 | \$93 | 6% | 1.09 |
| PPL | Zero Loss Condensate Drain | Mfg: Paper | Process Air Compressor | New | end use | 16,168 | 1.9% | 0.04 | 10 | \$93 | 6% | 1.09 |
| PPL | Zero Loss Condensate Drain | Mfg: Paper | Process Air Compressor | ROB | end use | 16,168 | 1.9% | 0.04 | 10 | \$93 | 6% | 1.09 |
| PPL | Cooling Tower Optimization | Mfg: Paper | Process Cooling | Existing | building | 60,663 | 20% | 4.34 | 10 | \$372 | 15% | 5.25 |
| PPL | Equipment: Chillers | Mfg: Paper | Process Cooling | Early | end use | 60,663 | 18% | 2.26 | 15 | \$2,847 | 46% | 1.94 |
| PPL | Equipment: Chillers | Mfg: Paper | Process Cooling | New | end use | 60,663 | 18% | 2.26 | 15 | \$2,847 | 46% | 1.94 |
| PPL | Equipment: Chillers | Mfg: Paper | Process Cooling | ROB | end use | 60,663 | 18% | 2.26 | 15 | \$2,847 | 46% | 1.94 |
| PPL | Facility Energy Management | Mfg: Paper | Process Cooling | Existing | end use | 60,663 | 1.9% | 0.23 | 2 | \$23 | 59% | 1.19 |
| PPL | Facility Energy Management | Mfg: Paper | Process Cooling | New | end use | 60,663 | 1.9% | 0.23 | 2 | \$23 | 59% | 1.19 |
| PPL | Improved Controls - Process Cooling | Mfg: Paper | Process Cooling | Existing | end use | 60,663 | 6.0% | 0.76 | 10 | \$3,203 | 56% | 0.48 |
| PPL | Improved Controls - Process Cooling | Mfg: Paper | Process Cooling | New | end use | 60,663 | 6.0% | 0.76 | 10 | \$3,203 | 56% | 0.48 |
| PPL | VFD on Cooling Tower Fan | Mfg: Paper | Process Cooling | Early | motor | 60,663 | 21% | 3.82 | 15 | \$2,795 | 20% | 2.46 |
| PPL | VFD on Cooling Tower Fan | Mfg: Paper | Process Cooling | New | motor | 60,663 | 22% | 3.82 | 15 | \$2,848 | 20% | 2.44 |
| PPL | VFD on Cooling Tower Fan | Mfg: Paper | Process Cooling | ROB | motor | 60,663 | 22% | 3.82 | 15 | \$2,848 | 20% | 2.44 |
| PPL | Improved Controls - Process Heating | Mfg: Paper | Process Heating | Existing | end use | 255,721 | 17% | 6.01 | 10 | \$2,938 | 77% | 3.04 |
| PPL | Improved Controls - Process Heating | Mfg: Paper | Process Heating | New | end use | 255,721 | 17% | 6.01 | 10 | \$2,938 | 77% | 3.04 |
| PPL | Process Heat O&M | Mfg: Paper | Process Heating | Existing | end use | 255,721 | 16% | 5.68 | 2 | \$1,776 | 77% | 0.88 |
| PPL | Process Heat O&M | Mfg: Paper | Process Heating | New | end use | 255,721 | 16% | 5.68 | 2 | \$1,776 | 77% | 0.88 |
| PPL | Facility Energy Management | Mfg: Paper | Process Other | Existing | end use | 128,283 | 1.9% | 0.33 | 2 | \$49 | 73% | 1.09 |
| PPL | Facility Energy Management | Mfg: Paper | Process Other | New | end use | 128,283 | 1.9% | 0.33 | 2 | \$49 | 73% | 1.10 |
| PPL | Kraft: Efficient Agitator | Mfg: Paper | Process Other | Early | end use | 128,283 | 50% | 9.00 | 10 | \$5,375 | 22% | 2.72 |
| PPL | Kraft: Efficient Agitator | Mfg: Paper | Process Other | New | end use | 128,283 | 50% | 9.00 | 10 | \$5,375 | 22% | 2.72 |
| PPL | Kraft: Efficient Agitator | Mfg: Paper | Process Other | ROB | end use | 128,283 | 50% | 9.00 | 10 | \$5,375 | 22% | 2.72 |
| PPL | Kraft: Effluent Treatment System | Mfg: Paper | Process Other | Early | end use | 128,283 | 15% | 2.70 | 10 | \$1,428 | 22% | 2.90 |
| PPL | Kraft: Effluent Treatment System | Mfg: Paper | Process Other | New | end use | 128,283 | 15% | 2.70 | 10 | \$1,428 | 22% | 2.90 |
| PPL | Kraft: Effluent Treatment System | Mfg: Paper | Process Other | ROB | end use | 128,283 | 15% | 2.70 | 10 | \$1,428 | 22% | 2.90 |
| PPL | Mech Pulp: Premium Process | Mfg: Paper | Process Other | Early | end use | 128,283 | 0.2% | 0.03 | 5 | \$24 | 31% | 1.27 |
| PPL | Mech Pulp: Premium Process | Mfg: Paper | Process Other | New | end use | 128,283 | 0.2% | 0.03 | 5 | \$24 | 31% | 1.27 |
| PPL | Mech Pulp: Premium Process | Mfg: Paper | Process Other | ROB | end use | 128,283 | 0.2% | 0.03 | 5 | \$24 | 31% | 1.27 |
| PPL | Mech Pulp: Refiner Plate Improvement | Mfg: Paper | Process Other | Early | end use | 128,283 | 0.4% | 0.08 | 1 | \$21 | 31% | 0.52 |
| PPL | Mech Pulp: Refiner Plate Improvement | Mfg: Paper | Process Other | New | end use | 128,283 | 0.4% | 0.08 | 1 | \$21 | 31% | 0.52 |
| PPL | Mech Pulp: Refiner Plate Improvement | Mfg: Paper | Process Other | ROB | end use | 128,283 | 0.4% | 0.08 | 1 | \$21 | 31% | 0.52 |
| PPL | Mech Pulp: Refiner Replacement | Mfg: Paper | Process Other | Early | end use | 128,283 | 10% | 1.80 | 12 | \$7,568 | 31% | 0.75 |
| PPL | Mech Pulp: Refiner Replacement | Mfg: Paper | Process Other | New | end use | 128,283 | 10% | 1.80 | 12 | \$7,568 | 31% | 0.75 |
| PPL | Mech Pulp: Refiner Replacement | Mfg: Paper | Process Other | ROB | end use | 128,283 | 10% | 1.80 | 12 | \$7,568 | 31% | 0.75 |
| PPL | Paper: Efficient Pulp Screen | Mfg: Paper | Process Other | Early | end use | 128,283 | 15% | 2.70 | 10 | \$3,482 | 31% | 1.67 |
| PPL | Paper: Efficient Pulp Screen | Mfg: Paper | Process Other | New | end use | 128,283 | 15% | 2.70 | 10 | \$3,482 | 31% | 1.67 |
| PPL | Paper: Efficient Pulp Screen | Mfg: Paper | Process Other | ROB | end use | 128,283 | 15% | 2.70 | 10 | \$3,482 | 31% | 1.67 |
| PPL | Adjustable speed drive on compressors | Mfg: Paper | Process Refrigeration | Early | end use | 31,162 | 12% | 0.53 | 10 | \$576 | 30% | 1.97 |
| PPL | Adjustable speed drive on compressors | Mfg: Paper | Process Refrigeration | New | end use | 31,162 | 12% | 0.53 | 10 | \$576 | 30% | 1.97 |
| PPL | Adjustable speed drive on compressors | Mfg: Paper | Process Refrigeration | ROB | end use | 31,162 | 12% | 0.53 | 10 | \$576 | 30% | 1.97 |
| PPL | Cooling Tower Optimization | Mfg: Paper | Process Refrigeration | Existing | building | 31,162 | 20% | 2.23 | 10 | \$191 | 15% | 5.25 |
| PPL | Optimization of operating parameters | Mfg: Paper | Process Refrigeration | Existing | end use | 31,162 | 13% | 0.60 | 3 | \$252 | 27% | 1.11 |
| PPL | Optimization of operating parameters | Mfg: Paper | Process Refrigeration | New | end use | 31,162 | 13% | 0.60 | 3 | \$252 | 27% | 1.11 |
| PPL | Synchronous Belts | Mfg: Paper | Process Refrigeration | Early | end use | 31,162 | 1.2% | 0.05 | 10 | \$46 | 30% | 2.29 |
| PPL | Synchronous Belts | Mfg: Paper | Process Refrigeration | New | end use | 31,162 | 1.2% | 0.05 | 10 | \$46 | 30% | 2.29 |
| PPL | Synchronous Belts | Mfg: Paper | Process Refrigeration | ROB | end use | 31,162 | 1.2% | 0.05 | 10 | \$46 | 30% | 2.29 |
| PPL | VFD on Cooling Tower Fan | Mfg: Paper | Process Refrigeration | Early | motor | 31,162 | 21% | 1.96 | 15 | \$1,436 | 20% | 2.46 |
| PPL | VFD on Cooling Tower Fan | Mfg: Paper | Process Refrigeration | New | motor | 31,162 | 22% | 1.96 | 15 | \$1,463 | 20% | 2.44 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--------------------------------------|---------------|-----------------------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | VFD on Cooling Tower Fan | Mfg: Paper | Process Refrigeration | ROB | motor | 31,162 | 22% | 1.96 | 15 | \$1,463 | 20% | 2.44 |
| PPL | Facility Energy Management | Mfg: Paper | Pumps | Existing | end use | 3,007,473 | 1.9% | 7.20 | 2 | \$1,159 | 69% | 1.08 |
| PPL | Facility Energy Management | Mfg: Paper | Pumps | New | end use | 3,007,473 | 1.9% | 7.20 | 2 | \$1,159 | 69% | 1.08 |
| PPL | HE Motors | Mfg: Paper | Pumps | Early | end use | 3,007,473 | 2.0% | 8.01 | 15 | \$17,904 | 73% | 1.69 |
| PPL | HE Motors | Mfg: Paper | Pumps | New | end use | 3,007,473 | 2.0% | 8.01 | 15 | \$17,904 | 73% | 1.69 |
| PPL | HE Motors | Mfg: Paper | Pumps | ROB | end use | 3,007,473 | 2.0% | 8.01 | 15 | \$17,904 | 73% | 1.69 |
| PPL | Motor rewinds | Mfg: Paper | Pumps | Existing | end use | 3,007,473 | 0.6% | 2.33 | 9 | \$4,277 | 11% | 1.22 |
| PPL | Motor rewinds | Mfg: Paper | Pumps | New | end use | 3,007,473 | 0.6% | 2.33 | 9 | \$4,277 | 11% | 1.22 |
| PPL | Pump Equipment Upgrade | Mfg: Paper | Pumps | Early | end use | 3,007,473 | 20% | 78.26 | 12 | \$75,187 | 81% | 2.57 |
| PPL | Pump Equipment Upgrade | Mfg: Paper | Pumps | New | end use | 3,007,473 | 20% | 78.26 | 12 | \$75,187 | 81% | 2.57 |
| PPL | Pump Equipment Upgrade | Mfg: Paper | Pumps | ROB | end use | 3,007,473 | 20% | 78.26 | 12 | \$75,187 | 81% | 2.57 |
| PPL | Pump System Optimization | Mfg: Paper | Pumps | Existing | end use | 3,007,473 | 8.7% | 34.03 | 12 | \$55,065 | 38% | 1.74 |
| PPL | Pump System Optimization | Mfg: Paper | Pumps | New | end use | 3,007,473 | 8.7% | 34.03 | 12 | \$55,065 | 38% | 1.74 |
| PPL | Synchronous Belts | Mfg: Paper | Pumps | Early | end use | 3,007,473 | 1.2% | 4.56 | 10 | \$4,432 | 61% | 2.16 |
| PPL | Synchronous Belts | Mfg: Paper | Pumps | New | end use | 3,007,473 | 1.2% | 4.56 | 10 | \$4,432 | 61% | 2.16 |
| PPL | Synchronous Belts | Mfg: Paper | Pumps | ROB | end use | 3,007,473 | 1.2% | 4.56 | 10 | \$4,432 | 61% | 2.16 |
| PPL | Circulating Fans | Mfg: Plastics | Fans | Early | end use | 731,539 | 5.0% | 4.35 | 10 | \$4,453 | 68% | 2.28 |
| PPL | Circulating Fans | Mfg: Plastics | Fans | New | end use | 731,539 | 5.0% | 4.35 | 10 | \$4,453 | 68% | 2.28 |
| PPL | Circulating Fans | Mfg: Plastics | Fans | ROB | end use | 731,539 | 5.0% | 4.35 | 10 | \$4,453 | 68% | 2.28 |
| PPL | Facility Energy Management | Mfg: Plastics | Fans | Existing | end use | 731,539 | 1.9% | 1.60 | 2 | \$282 | 77% | 1.07 |
| PPL | Facility Energy Management | Mfg: Plastics | Fans | New | end use | 731,539 | 1.9% | 1.60 | 2 | \$282 | 77% | 1.07 |
| PPL | HE Motors | Mfg: Plastics | Fans | Early | end use | 731,539 | 2.0% | 1.78 | 15 | \$4,355 | 77% | 1.73 |
| PPL | HE Motors | Mfg: Plastics | Fans | New | end use | 731,539 | 2.0% | 1.78 | 15 | \$4,355 | 77% | 1.73 |
| PPL | HE Motors | Mfg: Plastics | Fans | ROB | end use | 731,539 | 2.0% | 1.78 | 15 | \$4,355 | 77% | 1.73 |
| PPL | Improved Controls - Fans | Mfg: Plastics | Fans | Existing | end use | 731,539 | 7.1% | 6.19 | 10 | \$2,836 | 88% | 3.27 |
| PPL | Improved Controls - Fans | Mfg: Plastics | Fans | New | end use | 731,539 | 7.1% | 6.19 | 10 | \$2,836 | 88% | 3.27 |
| PPL | Properly Sized Fans | Mfg: Plastics | Fans | Early | end use | 731,539 | 13% | 11.46 | 10 | \$14,983 | 41% | 1.93 |
| PPL | Properly Sized Fans | Mfg: Plastics | Fans | New | end use | 731,539 | 13% | 11.46 | 10 | \$14,983 | 41% | 1.93 |
| PPL | Properly Sized Fans | Mfg: Plastics | Fans | ROB | end use | 731,539 | 13% | 11.46 | 10 | \$14,983 | 41% | 1.93 |
| PPL | Synchronous Belts | Mfg: Plastics | Fans | Early | end use | 731,539 | 1.2% | 1.01 | 10 | \$1,078 | 41% | 2.22 |
| PPL | Synchronous Belts | Mfg: Plastics | Fans | New | end use | 731,539 | 1.2% | 1.01 | 10 | \$1,078 | 41% | 2.22 |
| PPL | Synchronous Belts | Mfg: Plastics | Fans | ROB | end use | 731,539 | 1.2% | 1.01 | 10 | \$1,078 | 41% | 2.22 |
| PPL | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Plastics | HVAC | Early | unit (ton) | 435,625 | 9.2% | 10.36 | 15 | \$79,354 | 28% | 0.34 |
| PPL | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Plastics | HVAC | New | unit (ton) | 435,625 | 4.1% | 4.66 | 15 | \$19,226 | 28% | 0.61 |
| PPL | <65k BTU/hr 14 SEER Air Conditioner | Mfg: Plastics | HVAC | ROB | unit (ton) | 435,625 | 4.1% | 4.66 | 15 | \$19,226 | 28% | 0.61 |
| PPL | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Plastics | HVAC | Early | unit (ton) | 435,625 | 12% | 14.02 | 15 | \$93,551 | 28% | 0.38 |
| PPL | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Plastics | HVAC | New | unit (ton) | 435,625 | 7.7% | 8.69 | 15 | \$40,494 | 28% | 0.54 |
| PPL | <65k BTU/hr 15 SEER Air Conditioner | Mfg: Plastics | HVAC | ROB | unit (ton) | 435,625 | 7.7% | 8.69 | 15 | \$40,494 | 28% | 0.54 |
| PPL | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Plastics | HVAC | Early | unit (ton) | 435,625 | 15% | 17.22 | 15 | \$107,747 | 29% | 0.41 |
| PPL | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Plastics | HVAC | New | unit (ton) | 435,625 | 11% | 12.22 | 15 | \$61,762 | 29% | 0.50 |
| PPL | <65k BTU/hr 16 SEER Air Conditioner | Mfg: Plastics | HVAC | ROB | unit (ton) | 435,625 | 11% | 12.22 | 15 | \$61,762 | 29% | 0.50 |
| PPL | >760k min 10.2 EER Air Conditioner | Mfg: Plastics | HVAC | Early | unit (ton) | 435,625 | 2.1% | 2.40 | 15 | \$138,190 | 35% | 0.05 |
| PPL | >760k min 10.2 EER Air Conditioner | Mfg: Plastics | HVAC | New | unit (ton) | 435,625 | 2.8% | 3.19 | 15 | \$12,490 | 35% | 0.64 |
| PPL | >760k min 10.2 EER Air Conditioner | Mfg: Plastics | HVAC | ROB | unit (ton) | 435,625 | 2.8% | 3.19 | 15 | \$12,490 | 35% | 0.64 |
| PPL | 135-240k min 12 EER Air Conditioner | Mfg: Plastics | HVAC | Early | unit (ton) | 435,625 | 10% | 11.82 | 15 | \$149,639 | 35% | 0.21 |
| PPL | 135-240k min 12 EER Air Conditioner | Mfg: Plastics | HVAC | New | unit (ton) | 435,625 | 5.8% | 6.52 | 15 | \$17,669 | 35% | 0.90 |
| PPL | 135-240k min 12 EER Air Conditioner | Mfg: Plastics | HVAC | ROB | unit (ton) | 435,625 | 5.8% | 6.52 | 15 | \$17,669 | 35% | 0.90 |
| PPL | 240k-760k min 11 EER Air Conditioner | Mfg: Plastics | HVAC | Early | unit (ton) | 435,625 | 5.2% | 5.89 | 15 | \$138,277 | 35% | 0.11 |
| PPL | 240k-760k min 11 EER Air Conditioner | Mfg: Plastics | HVAC | New | unit (ton) | 435,625 | 5.3% | 6.03 | 15 | \$14,814 | 35% | 0.98 |
| PPL | 240k-760k min 11 EER Air Conditioner | Mfg: Plastics | HVAC | ROB | unit (ton) | 435,625 | 5.3% | 6.03 | 15 | \$14,814 | 35% | 0.98 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|---------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Plastics | HVAC | Early | unit (ton) | 435,625 | 9.7% | 10.96 | 15 | \$153,217 | 35% | 0.19 |
| PPL | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Plastics | HVAC | New | unit (ton) | 435,625 | 3.8% | 4.35 | 15 | \$21,860 | 35% | 0.50 |
| PPL | 65k-135k BTU/hr 12 EER Air Conditioner | Mfg: Plastics | HVAC | ROB | unit (ton) | 435,625 | 3.8% | 4.35 | 15 | \$21,860 | 35% | 0.50 |
| PPL | Ceiling Insualtions (Going upto R 20) | Mfg: Plastics | HVAC | Existing | building | 435,625 | 5.9% | 6.47 | 15 | \$1,319,875 | 71% | 0.01 |
| PPL | Ceiling Insualtions (Going upto R 20) | Mfg: Plastics | HVAC | New | building | 435,625 | 3.7% | 4.06 | 15 | \$1,254,578 | 94% | 0.01 |
| PPL | Chiller Tuneup/Diagnostics | Mfg: Plastics | HVAC | Existing | building | 435,625 | 8.0% | 12.78 | 10 | \$1,112,346 | 59% | 0.02 |
| PPL | Chiller Tuneup/Diagnostics | Mfg: Plastics | HVAC | New | building | 435,625 | 8.0% | 12.80 | 10 | \$1,112,346 | 59% | 0.02 |
| PPL | Cooling Tower Optimization | Mfg: Plastics | HVAC | Existing | building | 435,625 | 20% | 31.18 | 10 | \$2,671 | 12% | 5.25 |
| PPL | Duct Insulation, Add R8 | Mfg: Plastics | HVAC | Existing | building | 435,625 | 1.5% | 1.39 | 15 | \$3,461 | 18% | 1.10 |
| PPL | Duct Insulation, Add R8 | Mfg: Plastics | HVAC | New | building | 435,625 | 1.5% | 1.39 | 15 | \$3,461 | 9% | 1.10 |
| PPL | Ductless Heat Pump | Mfg: Plastics | HVAC | Early | heat pump | 435,625 | 0.8% | 0.82 | 15 | \$34,599 | 83% | 0.07 |
| PPL | Ductless Heat Pump | Mfg: Plastics | HVAC | New | heat pump | 435,625 | 0.4% | 0.43 | 15 | \$10,048 | 83% | 0.13 |
| PPL | Ductless Heat Pump | Mfg: Plastics | HVAC | ROB | heat pump | 435,625 | 0.4% | 0.43 | 15 | \$10,048 | 83% | 0.13 |
| PPL | DX Coil Cleaning | Mfg: Plastics | HVAC | Existing | building | 435,625 | 13% | 19.98 | 1 | \$4,175 | 73% | 0.48 |
| PPL | DX Coil Cleaning | Mfg: Plastics | HVAC | New | building | 435,625 | 13% | 19.98 | 1 | \$4,175 | 73% | 0.48 |
| PPL | Efficient Unit Heating System | Mfg: Plastics | HVAC | Early | heater | 435,625 | 6.9% | 0.25 | 15 | \$23,466 | 83% | 0.62 |
| PPL | Efficient Unit Heating System | Mfg: Plastics | HVAC | New | heater | 435,625 | 4.0% | 0.14 | 15 | \$16,006 | 83% | 0.53 |
| PPL | Efficient Unit Heating System | Mfg: Plastics | HVAC | ROB | heater | 435,625 | 4.0% | 0.14 | 15 | \$16,006 | 83% | 0.53 |
| PPL | Ground Source Heat Pump (Closed Loop) | Mfg: Plastics | HVAC | Early | heat pump | 435,625 | 1.3% | 1.27 | 15 | \$71,841 | 19% | 0.05 |
| PPL | Ground Source Heat Pump (Closed Loop) | Mfg: Plastics | HVAC | New | heat pump | 435,625 | 1.0% | 1.00 | 15 | \$28,366 | 19% | 0.10 |
| PPL | Ground Source Heat Pump (Closed Loop) | Mfg: Plastics | HVAC | ROB | heat pump | 435,625 | 1.0% | 1.00 | 15 | \$28,366 | 19% | 0.10 |
| PPL | Ground Source Heat Pump (Open Loop) | Mfg: Plastics | HVAC | Early | heat pump | 435,625 | 1.3% | 1.27 | 15 | \$46,011 | 19% | 0.08 |
| PPL | Ground Source Heat Pump (Open Loop) | Mfg: Plastics | HVAC | New | heat pump | 435,625 | 1.0% | 1.00 | 15 | \$975 | 19% | 2.32 |
| PPL | Ground Source Heat Pump (Open Loop) | Mfg: Plastics | HVAC | ROB | heat pump | 435,625 | 1.0% | 1.00 | 15 | \$975 | 19% | 2.32 |
| PPL | HE Air Cooled Chiller, 100 Tons | Mfg: Plastics | HVAC | Early | unit (ton) | 435,625 | 1.5% | 1.45 | 15 | \$512,145 | 89% | 0.01 |
| PPL | HE Air Cooled Chiller, 100 Tons | Mfg: Plastics | HVAC | New | unit (ton) | 435,625 | 0.4% | 0.41 | 15 | \$74,610 | 89% | 0.02 |
| PPL | HE Air Cooled Chiller, 100 Tons | Mfg: Plastics | HVAC | ROB | unit (ton) | 435,625 | 0.4% | 0.41 | 15 | \$74,610 | 89% | 0.02 |
| PPL | HE Air Cooled Chiller, 150 Tons | Mfg: Plastics | HVAC | Early | unit (ton) | 435,625 | 1.5% | 1.43 | 15 | \$442,379 | 89% | 0.01 |
| PPL | HE Air Cooled Chiller, 150 Tons | Mfg: Plastics | HVAC | New | unit (ton) | 435,625 | 0.3% | 0.30 | 15 | \$36,641 | 89% | 0.02 |
| PPL | HE Air Cooled Chiller, 150 Tons | Mfg: Plastics | HVAC | ROB | unit (ton) | 435,625 | 0.3% | 0.30 | 15 | \$36,641 | 89% | 0.02 |
| PPL | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Plastics | HVAC | Early | heat pump | 435,625 | 1.4% | 1.34 | 12 | \$18,754 | 81% | 0.17 |
| PPL | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Plastics | HVAC | Early | heat pump | 435,625 | 1.1% | 1.11 | 12 | \$13,701 | 81% | 0.20 |
| PPL | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Plastics | HVAC | New | heat pump | 435,625 | 1.0% | 1.00 | 12 | \$8,373 | 81% | 0.29 |
| PPL | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Plastics | HVAC | New | heat pump | 435,625 | 0.8% | 0.74 | 12 | \$2,927 | 81% | 0.58 |
| PPL | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Plastics | HVAC | ROB | heat pump | 435,625 | 1.0% | 1.00 | 12 | \$8,373 | 81% | 0.29 |
| PPL | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mfg: Plastics | HVAC | ROB | heat pump | 435,625 | 0.8% | 0.74 | 12 | \$2,927 | 81% | 0.58 |
| PPL | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Plastics | HVAC | Early | unit (ton) | 435,625 | 1.6% | 1.58 | 15 | \$40,636 | 89% | 0.11 |
| PPL | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Plastics | HVAC | New | unit (ton) | 435,625 | 0.9% | 0.91 | 15 | \$13,515 | 89% | 0.20 |
| PPL | HE Water Cooled Centrifugal Chiller, 175 Tons | Mfg: Plastics | HVAC | ROB | unit (ton) | 435,625 | 0.9% | 0.91 | 15 | \$13,515 | 89% | 0.20 |
| PPL | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Plastics | HVAC | Early | unit (ton) | 435,625 | 1.4% | 1.39 | 15 | \$39,687 | 89% | 0.10 |
| PPL | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Plastics | HVAC | New | unit (ton) | 435,625 | 1.0% | 0.98 | 15 | \$7,750 | 89% | 0.36 |
| PPL | HE Water Cooled Centrifugal Chiller, 300 Tons | Mfg: Plastics | HVAC | ROB | unit (ton) | 435,625 | 1.4% | 1.39 | 15 | \$7,120 | 89% | 0.55 |
| PPL | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Plastics | HVAC | Early | unit (ton) | 435,625 | 1.4% | 1.38 | 15 | \$46,972 | 89% | 0.09 |
| PPL | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Plastics | HVAC | New | unit (ton) | 435,625 | 0.9% | 0.88 | 15 | \$19,776 | 89% | 0.13 |
| PPL | HE Water Cooled Centrifugal Chiller, 500 Tons | Mfg: Plastics | HVAC | ROB | unit (ton) | 435,625 | 1.4% | 1.37 | 15 | \$17,899 | 89% | 0.22 |
| PPL | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Plastics | HVAC | Early | unit (ton) | 435,625 | 1.4% | 1.38 | 15 | \$45,246 | 89% | 0.09 |
| PPL | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Plastics | HVAC | New | unit (ton) | 435,625 | 0.9% | 0.88 | 15 | \$17,191 | 89% | 0.15 |
| PPL | HE Water Cooled Centrifugal Chiller, 600 Tons | Mfg: Plastics | HVAC | ROB | unit (ton) | 435,625 | 1.4% | 1.38 | 15 | \$15,559 | 89% | 0.26 |
| PPL | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Plastics | HVAC | Early | unit (ton) | 435,625 | 1.8% | 1.78 | 15 | \$48,754 | 89% | 0.11 |
| PPL | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Plastics | HVAC | New | unit (ton) | 435,625 | 0.6% | 0.54 | 15 | \$30,189 | 89% | 0.05 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|---------------|----------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | HE Water Cooled Reciprocating Chiller, 100 Tons | Mfg: Plastics | HVAC | ROB | unit (ton) | 435,625 | 1.8% | 1.78 | 15 | \$23,441 | 89% | 0.22 |
| PPL | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Plastics | HVAC | Early | unit (ton) | 435,625 | 2.2% | 2.12 | 15 | \$44,843 | 89% | 0.14 |
| PPL | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Plastics | HVAC | New | unit (ton) | 435,625 | 0.8% | 0.77 | 15 | \$17,994 | 89% | 0.13 |
| PPL | HE Water Cooled Reciprocating Chiller, 175 Tons | Mfg: Plastics | HVAC | ROB | unit (ton) | 435,625 | 0.8% | 0.77 | 15 | \$17,994 | 89% | 0.13 |
| PPL | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Plastics | HVAC | Early | unit (ton) | 435,625 | 2.4% | 2.38 | 15 | \$38,006 | 89% | 0.18 |
| PPL | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Plastics | HVAC | New | unit (ton) | 435,625 | 0.9% | 0.89 | 15 | \$9,563 | 89% | 0.27 |
| PPL | HE Water Cooled Reciprocating Chiller, 300 Tons | Mfg: Plastics | HVAC | ROB | unit (ton) | 435,625 | 2.4% | 2.38 | 15 | \$6,819 | 89% | 0.94 |
| PPL | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Plastics | HVAC | Early | unit (ton) | 435,625 | 1.8% | 1.80 | 15 | \$37,624 | 89% | 0.14 |
| PPL | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Plastics | HVAC | New | unit (ton) | 435,625 | 0.7% | 0.68 | 15 | \$10,536 | 89% | 0.19 |
| PPL | HE Water Cooled Reciprocating Chiller, 50 Tons | Mfg: Plastics | HVAC | ROB | unit (ton) | 435,625 | 1.8% | 1.80 | 15 | \$8,347 | 89% | 0.60 |
| PPL | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Plastics | HVAC | Existing | building | 435,625 | 2.9% | 2.56 | 5 | \$4,622 | 55% | 0.57 |
| PPL | HVAC Diagnostic/Air Conditioner Tune Up | Mfg: Plastics | HVAC | New | building | 435,625 | 0.6% | 1.01 | 5 | \$2,773 | 51% | 0.28 |
| PPL | Improved Controls - HVAC | Mfg: Plastics | HVAC | Existing | end use | 435,625 | 21% | 13.06 | 10 | \$4,580 | 76% | 3.49 |
| PPL | Improved Controls - HVAC | Mfg: Plastics | HVAC | New | end use | 435,625 | 21% | 13.06 | 10 | \$4,580 | 76% | 3.49 |
| PPL | Outside Air Economizer | Mfg: Plastics | HVAC | Existing | building | 435,625 | 1.1% | 1.22 | 10 | \$1,600,568 | 82% | 0.00 |
| PPL | Outside Air Economizer | Mfg: Plastics | HVAC | New | building | 435,625 | 1.1% | 1.22 | 10 | \$1,600,568 | 82% | 0.00 |
| PPL | Recommissioning | Mfg: Plastics | HVAC | Existing | end use | 435,625 | 5.0% | 3.13 | 10 | \$597 | 88% | 4.30 |
| PPL | Recommissioning | Mfg: Plastics | HVAC | New | end use | 435,625 | 5.0% | 3.13 | 10 | \$597 | 88% | 4.30 |
| PPL | Room AC (with louvered sides) | Mfg: Plastics | HVAC | Early | unit (ton) | 435,625 | 7.7% | 7.56 | 9 | \$34,144 | 78% | 0.39 |
| PPL | Room AC (with louvered sides) | Mfg: Plastics | HVAC | New | unit (ton) | 435,625 | 2.6% | 2.52 | 9 | \$1,869 | 78% | 1.77 |
| PPL | Room AC (with louvered sides) | Mfg: Plastics | HVAC | ROB | unit (ton) | 435,625 | 2.6% | 2.52 | 9 | \$1,869 | 78% | 1.77 |
| PPL | Variable Refrigerant Flow Heat Pump | Mfg: Plastics | HVAC | New | measure | 435,625 | 0.1% | 0.11 | 13 | \$3,222 | 43% | 0.09 |
| PPL | Variable Refrigerant Flow Heat Pump | Mfg: Plastics | HVAC | ROB | measure | 435,625 | 0.1% | 0.11 | 13 | \$3,222 | 43% | 0.09 |
| PPL | VFD on Cooling Tower Fan | Mfg: Plastics | HVAC | Early | motor | 435,625 | 21% | 27.41 | 15 | \$20,071 | 20% | 2.52 |
| PPL | VFD on Cooling Tower Fan | Mfg: Plastics | HVAC | New | motor | 435,625 | 22% | 27.41 | 15 | \$20,454 | 15% | 2.51 |
| PPL | VFD on Cooling Tower Fan | Mfg: Plastics | HVAC | ROB | motor | 435,625 | 22% | 27.41 | 15 | \$20,454 | 15% | 2.51 |
| PPL | Wall Insualtions (Going upto R 21) | Mfg: Plastics | HVAC | Existing | building | 435,625 | 19% | 20.83 | 15 | \$309,888 | 26% | 0.18 |
| PPL | Wall Insualtions (Going upto R 21) | Mfg: Plastics | HVAC | New | building | 435,625 | 0.6% | 0.67 | 15 | \$237,699 | 94% | 0.01 |
| PPL | Water Source Heat Pump (4 ton) | Mfg: Plastics | HVAC | Early | heat pump | 435,625 | 1.5% | 1.51 | 15 | \$74,395 | 6% | 0.06 |
| PPL | Water Source Heat Pump (4 ton) | Mfg: Plastics | HVAC | New | heat pump | 435,625 | 1.1% | 1.11 | 15 | \$36,258 | 6% | 0.09 |
| PPL | Water Source Heat Pump (4 ton) | Mfg: Plastics | HVAC | ROB | heat pump | 435,625 | 1.1% | 1.11 | 15 | \$36,258 | 6% | 0.09 |
| PPL | Efficient Metal Halide (High Bay) | Mfg: Plastics | Lighting | Early | end use | 366,954 | 42% | 0.00 | 9 | \$57,341 | 53% | 0.76 |
| PPL | Efficient Metal Halide (High Bay) | Mfg: Plastics | Lighting | New | end use | 366,954 | 41% | 0.00 | 13 | \$1,531,595 | 61% | 0.05 |
| PPL | Efficient Metal Halide (High Bay) | Mfg: Plastics | Lighting | ROB | end use | 366,954 | 41% | 0.00 | 13 | \$1,170,530 | 61% | 0.06 |
| PPL | Induction (High Bay) | Mfg: Plastics | Lighting | Early | end use | 366,954 | 94% | 0.00 | 13 | \$170,614 | 95% | 0.85 |
| PPL | Induction (High Bay) | Mfg: Plastics | Lighting | New | end use | 366,954 | 94% | 0.00 | 13 | \$159,737 | 95% | 0.90 |
| PPL | Induction (High Bay) | Mfg: Plastics | Lighting | ROB | end use | 366,954 | 94% | 0.00 | 13 | \$121,406 | 95% | 1.14 |
| PPL | LED (High Bay) | Mfg: Plastics | Lighting | Early | end use | 366,954 | 69% | 0.00 | 14 | \$200,837 | 95% | 0.59 |
| PPL | LED (High Bay) | Mfg: Plastics | Lighting | New | end use | 366,954 | 55% | 0.00 | 14 | \$222,924 | 95% | 0.43 |
| PPL | LED (High Bay) | Mfg: Plastics | Lighting | ROB | end use | 366,954 | 59% | 0.00 | 14 | \$146,881 | 95% | 0.68 |
| PPL | Lighting Controls | Mfg: Plastics | Lighting | Existing | end use | 366,954 | 20% | 0.00 | 6 | \$1,375,667 | 16% | 0.01 |
| PPL | Lighting Controls | Mfg: Plastics | Lighting | New | end use | 366,954 | 12% | 0.00 | 10 | \$1,830,087 | 11% | 0.01 |
| PPL | Linear Fluorescent (High Bay) | Mfg: Plastics | Lighting | Early | end use | 366,954 | 17% | 0.00 | 14 | \$41,987 | 98% | 0.68 |
| PPL | Linear Fluorescent (High Bay) | Mfg: Plastics | Lighting | New | end use | 366,954 | 13% | 0.00 | 14 | \$13,315 | 91% | 1.43 |
| PPL | Linear Fluorescent (High Bay) | Mfg: Plastics | Lighting | ROB | end use | 366,954 | 13% | 0.00 | 14 | \$8,525 | 91% | 2.07 |
| PPL | Metal Halide (High Bay) | Mfg: Plastics | Lighting | Early | end use | 366,954 | 62% | 0.00 | 13 | \$252,257 | 38% | 0.41 |
| PPL | Metal Halide (High Bay) | Mfg: Plastics | Lighting | New | end use | 366,954 | 73% | 0.00 | 13 | \$60,311 | 38% | 1.61 |
| PPL | Metal Halide (High Bay) | Mfg: Plastics | Lighting | ROB | end use | 366,954 | 73% | 0.00 | 13 | \$45,837 | 38% | 1.97 |
| PPL | Screw Base CFL | Mfg: Plastics | Lighting | Early | end use | 366,954 | 80% | 0.00 | 7 | \$99,693 | 17% | 0.66 |
| PPL | Screw Base CFL | Mfg: Plastics | Lighting | New | end use | 366,954 | 73% | 0.00 | 9 | \$81,474 | 18% | 0.90 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|---------------|----------|----------|---------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Screw Base CFL | Mfg: Plastics | Lighting | ROB | end use | 366,954 | 73% | 0.00 | 9 | \$68,193 | 17% | 1.03 |
| PPL | Screw Base LED | Mfg: Plastics | Lighting | Early | end use | 366,954 | 76% | 0.00 | 9 | \$61,183 | 21% | 1.21 |
| PPL | Screw Base LED | Mfg: Plastics | Lighting | New | end use | 366,954 | 77% | 0.00 | 9 | \$34,083 | 20% | 1.84 |
| PPL | Screw Base LED | Mfg: Plastics | Lighting | ROB | end use | 366,954 | 77% | 0.00 | 9 | \$27,057 | 21% | 2.12 |
| PPL | T8 High Performance Linear Florescent | Mfg: Plastics | Lighting | Early | end use | 366,954 | 36% | 0.00 | 14 | \$35,115 | 71% | 1.52 |
| PPL | T8 High Performance Linear Florescent | Mfg: Plastics | Lighting | New | end use | 366,954 | 26% | 0.00 | 14 | \$12,563 | 76% | 2.56 |
| PPL | T8 High Performance Linear Florescent | Mfg: Plastics | Lighting | ROB | end use | 366,954 | 26% | 0.00 | 14 | \$9,549 | 76% | 3.03 |
| PPL | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Plastics | Motors | Early | end use | 230,958 | 0.9% | 0.30 | 15 | \$3,528 | 81% | 0.36 |
| PPL | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Plastics | Motors | New | end use | 230,958 | 0.9% | 0.30 | 15 | \$3,528 | 81% | 0.35 |
| PPL | Enhanced (Ultra-PE) Motor 1-15 HP | Mfg: Plastics | Motors | ROB | end use | 230,958 | 0.9% | 0.30 | 15 | \$3,528 | 81% | 0.35 |
| PPL | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Plastics | Motors | Early | end use | 230,958 | 0.8% | 0.25 | 15 | \$2,143 | 73% | 0.48 |
| PPL | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Plastics | Motors | New | end use | 230,958 | 0.8% | 0.25 | 15 | \$2,143 | 73% | 0.48 |
| PPL | Enhanced (Ultra-PE) Motor 125-200 HP | Mfg: Plastics | Motors | ROB | end use | 230,958 | 0.8% | 0.25 | 15 | \$2,143 | 73% | 0.48 |
| PPL | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Plastics | Motors | Early | end use | 230,958 | 0.5% | 0.15 | 15 | \$821 | 81% | 0.72 |
| PPL | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Plastics | Motors | New | end use | 230,958 | 0.5% | 0.15 | 15 | \$821 | 81% | 0.74 |
| PPL | Enhanced (Ultra-PE) Motor 20-40 HP | Mfg: Plastics | Motors | ROB | end use | 230,958 | 0.4% | 0.15 | 15 | \$821 | 81% | 0.71 |
| PPL | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Plastics | Motors | Early | end use | 230,958 | 0.4% | 0.13 | 15 | \$271 | 73% | 1.72 |
| PPL | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Plastics | Motors | New | end use | 230,958 | 0.4% | 0.13 | 15 | \$271 | 73% | 1.70 |
| PPL | Enhanced (Ultra-PE) Motor 250-500 HP | Mfg: Plastics | Motors | ROB | end use | 230,958 | 0.4% | 0.13 | 15 | \$271 | 73% | 1.74 |
| PPL | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Plastics | Motors | Early | end use | 230,958 | 0.9% | 0.30 | 15 | \$406 | 47% | 2.37 |
| PPL | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Plastics | Motors | New | end use | 230,958 | 0.9% | 0.30 | 15 | \$406 | 47% | 2.36 |
| PPL | Enhanced (Ultra-PE) Motor 50-100 HP | Mfg: Plastics | Motors | ROB | end use | 230,958 | 0.9% | 0.30 | 15 | \$406 | 47% | 2.38 |
| PPL | Facility Energy Management | Mfg: Plastics | Motors | Existing | end use | 230,958 | 1.9% | 0.61 | 2 | \$89 | 77% | 1.10 |
| PPL | Facility Energy Management | Mfg: Plastics | Motors | New | end use | 230,958 | 1.9% | 0.61 | 2 | \$89 | 77% | 1.10 |
| PPL | HE Motors | Mfg: Plastics | Motors | Early | end use | 230,958 | 2.0% | 0.68 | 15 | \$1,375 | 38% | 1.71 |
| PPL | HE Motors | Mfg: Plastics | Motors | New | end use | 230,958 | 2.0% | 0.68 | 15 | \$1,375 | 38% | 1.71 |
| PPL | HE Motors | Mfg: Plastics | Motors | ROB | end use | 230,958 | 2.0% | 0.68 | 15 | \$1,375 | 38% | 1.71 |
| PPL | High-Efficiency Ventilation System | Mfg: Plastics | Motors | Early | end use | 230,958 | 5.7% | 1.87 | 10 | \$14,433 | 73% | 0.37 |
| PPL | High-Efficiency Ventilation System | Mfg: Plastics | Motors | New | end use | 230,958 | 5.7% | 1.87 | 10 | \$14,433 | 73% | 0.37 |
| PPL | High-Efficiency Ventilation System | Mfg: Plastics | Motors | ROB | end use | 230,958 | 5.7% | 1.87 | 10 | \$14,433 | 73% | 0.37 |
| PPL | Improved Controls - Motors | Mfg: Plastics | Motors | Existing | end use | 230,958 | 4.0% | 1.31 | 10 | \$1,004 | 73% | 2.33 |
| PPL | Improved Controls - Motors | Mfg: Plastics | Motors | New | end use | 230,958 | 4.0% | 1.31 | 10 | \$1,004 | 73% | 2.33 |
| PPL | Motor Management Plan | Mfg: Plastics | Motors | Existing | end use | 230,958 | 2.9% | 0.95 | 10 | \$471 | 73% | 2.98 |
| PPL | Motor Management Plan | Mfg: Plastics | Motors | New | end use | 230,958 | 2.9% | 0.95 | 10 | \$471 | 73% | 2.99 |
| PPL | Motors Other | Mfg: Plastics | Motors | Existing | end use | 230,958 | 1.4% | 0.46 | 15 | \$58 | 83% | 6.80 |
| PPL | Motors Other | Mfg: Plastics | Motors | New | end use | 230,958 | 1.4% | 0.46 | 15 | \$58 | 83% | 6.80 |
| PPL | Motors: Rewind 101-200 HP | Mfg: Plastics | Motors | Existing | end use | 230,958 | 0.6% | 0.18 | 10 | \$292 | 27% | 1.42 |
| PPL | Motors: Rewind 101-200 HP | Mfg: Plastics | Motors | New | end use | 230,958 | 0.6% | 0.18 | 10 | \$292 | 27% | 1.41 |
| PPL | Motors: Rewind 201-500 HP | Mfg: Plastics | Motors | Existing | end use | 230,958 | 0.5% | 0.18 | 8 | \$183 | 27% | 1.62 |
| PPL | Motors: Rewind 201-500 HP | Mfg: Plastics | Motors | New | end use | 230,958 | 0.6% | 0.18 | 8 | \$183 | 27% | 1.63 |
| PPL | Motors: Rewind 20-50 HP | Mfg: Plastics | Motors | Existing | end use | 230,958 | 1.0% | 0.34 | 11 | \$857 | 42% | 1.09 |
| PPL | Motors: Rewind 20-50 HP | Mfg: Plastics | Motors | New | end use | 230,958 | 1.0% | 0.34 | 11 | \$857 | 42% | 1.09 |
| PPL | Motors: Rewind 500+ HP | Mfg: Plastics | Motors | Existing | end use | 230,958 | 0.6% | 0.18 | 8 | \$131 | 11% | 2.04 |
| PPL | Motors: Rewind 500+ HP | Mfg: Plastics | Motors | New | end use | 230,958 | 0.6% | 0.18 | 8 | \$131 | 11% | 2.04 |
| PPL | Motors: Rewind 51-100 HP | Mfg: Plastics | Motors | Existing | end use | 230,958 | 0.6% | 0.20 | 9 | \$423 | 42% | 1.03 |
| PPL | Motors: Rewind 51-100 HP | Mfg: Plastics | Motors | New | end use | 230,958 | 0.6% | 0.20 | 9 | \$423 | 42% | 1.02 |
| PPL | Switch from Belt drive to Direct Drive | Mfg: Plastics | Motors | Early | end use | 230,958 | 7.5% | 2.48 | 12 | \$3,706 | 30% | 1.79 |
| PPL | Switch from Belt drive to Direct Drive | Mfg: Plastics | Motors | New | end use | 230,958 | 7.5% | 2.48 | 12 | \$3,706 | 30% | 1.79 |
| PPL | Switch from Belt drive to Direct Drive | Mfg: Plastics | Motors | ROB | end use | 230,958 | 7.5% | 2.48 | 12 | \$3,706 | 30% | 1.79 |
| PPL | Synchronous Belts | Mfg: Plastics | Motors | Early | end use | 230,958 | 1.2% | 0.38 | 10 | \$340 | 30% | 2.20 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|------------------------------------|---------------|------------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Synchronous Belts | Mfg: Plastics | Motors | New | end use | 230,958 | 1.2% | 0.38 | 10 | \$340 | 30% | 2.20 |
| PPL | Synchronous Belts | Mfg: Plastics | Motors | ROB | end use | 230,958 | 1.2% | 0.38 | 10 | \$340 | 30% | 2.20 |
| PPL | Bldg Improvements | Mfg: Plastics | Other | Existing | end use | 113,315 | 16% | 2.18 | 15 | \$2,471 | 72% | 2.86 |
| PPL | Bldg Improvements | Mfg: Plastics | Other | New | end use | 113,315 | 16% | 2.18 | 15 | \$2,471 | 72% | 2.86 |
| PPL | Energy Project Management | Mfg: Plastics | Other | Existing | end use | 113,315 | 29% | 3.91 | 11 | \$4,045 | 63% | 2.30 |
| PPL | Energy Project Management | Mfg: Plastics | Other | New | end use | 113,315 | 29% | 3.91 | 11 | \$4,045 | 63% | 2.30 |
| PPL | Facility Energy Management | Mfg: Plastics | Other | Existing | end use | 113,315 | 1.9% | 0.25 | 2 | \$44 | 76% | 1.07 |
| PPL | Facility Energy Management | Mfg: Plastics | Other | New | end use | 113,315 | 1.9% | 0.25 | 2 | \$44 | 76% | 1.07 |
| PPL | Integrated Plant Energy Management | Mfg: Plastics | Other | Existing | end use | 113,315 | 50% | 6.74 | 11 | \$11,169 | 48% | 1.67 |
| PPL | Integrated Plant Energy Management | Mfg: Plastics | Other | New | end use | 113,315 | 50% | 6.74 | 11 | \$11,169 | 48% | 1.67 |
| PPL | Plant Energy Management | Mfg: Plastics | Other | Existing | end use | 113,315 | 12% | 1.62 | 10 | \$285 | 55% | 4.47 |
| PPL | Plant Energy Management | Mfg: Plastics | Other | New | end use | 113,315 | 12% | 1.62 | 10 | \$285 | 55% | 4.47 |
| PPL | Transformers | Mfg: Plastics | Other | Early | end use | 113,315 | 1.6% | 0.22 | 15 | \$362 | 34% | 2.18 |
| PPL | Transformers | Mfg: Plastics | Other | New | end use | 113,315 | 1.6% | 0.22 | 15 | \$362 | 34% | 2.19 |
| PPL | Transformers | Mfg: Plastics | Other | ROB | end use | 113,315 | 1.6% | 0.22 | 15 | \$362 | 34% | 2.18 |
| PPL | Air Compressor Demand Reduction | Mfg: Plastics | Process Air Compressor | Existing | end use | 7,605 | 26% | 0.25 | 10 | \$114 | 40% | 3.22 |
| PPL | Air Compressor Demand Reduction | Mfg: Plastics | Process Air Compressor | New | end use | 7,605 | 26% | 0.25 | 10 | \$114 | 40% | 3.22 |
| PPL | Facility Energy Management | Mfg: Plastics | Process Air Compressor | Existing | end use | 7,605 | 1.8% | 0.02 | 2 | \$2.9 | 50% | 1.08 |
| PPL | Facility Energy Management | Mfg: Plastics | Process Air Compressor | New | end use | 7,605 | 1.9% | 0.02 | 2 | \$2.9 | 50% | 1.08 |
| PPL | HE Compressor motors | Mfg: Plastics | Process Air Compressor | Early | end use | 7,605 | 1.1% | 0.01 | 15 | \$29 | 56% | 1.45 |
| PPL | HE Compressor motors | Mfg: Plastics | Process Air Compressor | New | end use | 7,605 | 1.1% | 0.01 | 15 | \$29 | 56% | 1.45 |
| PPL | HE Compressor motors | Mfg: Plastics | Process Air Compressor | ROB | end use | 7,605 | 1.1% | 0.01 | 15 | \$29 | 56% | 1.44 |
| PPL | Improved Controls - Air Compressor | Mfg: Plastics | Process Air Compressor | Existing | end use | 7,605 | 41% | 0.40 | 10 | \$136 | 19% | 3.62 |
| PPL | Improved Controls - Air Compressor | Mfg: Plastics | Process Air Compressor | New | end use | 7,605 | 41% | 0.40 | 10 | \$136 | 19% | 3.62 |
| PPL | Low Pressure-drop Filters | Mfg: Plastics | Process Air Compressor | Existing | end use | 7,605 | 1.9% | 0.02 | 10 | \$86 | 46% | 0.61 |
| PPL | Low Pressure-drop Filters | Mfg: Plastics | Process Air Compressor | New | end use | 7,605 | 1.9% | 0.02 | 10 | \$86 | 46% | 0.61 |
| PPL | Outside Air Intake | Mfg: Plastics | Process Air Compressor | Existing | end use | 7,605 | 1.4% | 0.01 | 10 | \$50 | 37% | 0.79 |
| PPL | Outside Air Intake | Mfg: Plastics | Process Air Compressor | New | end use | 7,605 | 1.4% | 0.01 | 10 | \$50 | 37% | 0.78 |
| PPL | Receiver Capacity Addition | Mfg: Plastics | Process Air Compressor | Existing | end use | 7,605 | 5.9% | 0.06 | 10 | \$141 | 28% | 1.08 |
| PPL | Receiver Capacity Addition | Mfg: Plastics | Process Air Compressor | New | end use | 7,605 | 6.0% | 0.06 | 10 | \$141 | 28% | 1.08 |
| PPL | Refrigerated Cycling Dryers | Mfg: Plastics | Process Air Compressor | Early | end use | 7,605 | 1.7% | 0.02 | 10 | \$17 | 16% | 2.00 |
| PPL | Refrigerated Cycling Dryers | Mfg: Plastics | Process Air Compressor | New | end use | 7,605 | 1.7% | 0.02 | 10 | \$17 | 16% | 1.99 |
| PPL | Refrigerated Cycling Dryers | Mfg: Plastics | Process Air Compressor | ROB | end use | 7,605 | 1.7% | 0.02 | 10 | \$17 | 16% | 1.99 |
| PPL | VFD Controlled Compressor | Mfg: Plastics | Process Air Compressor | Early | end use | 7,605 | 24% | 0.23 | 10 | \$749 | 22% | 0.85 |
| PPL | VFD Controlled Compressor | Mfg: Plastics | Process Air Compressor | New | end use | 7,605 | 24% | 0.23 | 10 | \$749 | 22% | 0.85 |
| PPL | VFD Controlled Compressor | Mfg: Plastics | Process Air Compressor | ROB | end use | 7,605 | 24% | 0.23 | 10 | \$749 | 22% | 0.85 |
| PPL | Zero Loss Condensate Drain | Mfg: Plastics | Process Air Compressor | Early | end use | 7,605 | 1.8% | 0.02 | 10 | \$44 | 6% | 1.09 |
| PPL | Zero Loss Condensate Drain | Mfg: Plastics | Process Air Compressor | New | end use | 7,605 | 1.9% | 0.02 | 10 | \$44 | 6% | 1.09 |
| PPL | Zero Loss Condensate Drain | Mfg: Plastics | Process Air Compressor | ROB | end use | 7,605 | 1.9% | 0.02 | 10 | \$44 | 6% | 1.09 |
| PPL | Clean Room: Change Filter Strategy | Mfg: Plastics | Process Cooling | Existing | end use | 295,258 | 40% | 24.62 | 1 | \$766 | 17% | 0.78 |
| PPL | Clean Room: Change Filter Strategy | Mfg: Plastics | Process Cooling | New | end use | 295,258 | 40% | 24.62 | 1 | \$766 | 17% | 0.78 |
| PPL | Clean Room: Chiller Optimize | Mfg: Plastics | Process Cooling | Existing | end use | 295,258 | 15% | 9.12 | 10 | \$3,564 | 27% | 2.99 |
| PPL | Clean Room: Chiller Optimize | Mfg: Plastics | Process Cooling | New | end use | 295,258 | 15% | 9.12 | 10 | \$3,564 | 27% | 2.99 |
| PPL | Clean Room: Clean Room HVAC | Mfg: Plastics | Process Cooling | Existing | end use | 295,258 | 9.0% | 5.54 | 15 | \$4,302 | 40% | 2.78 |
| PPL | Clean Room: Clean Room HVAC | Mfg: Plastics | Process Cooling | New | end use | 295,258 | 9.0% | 5.54 | 15 | \$4,302 | 40% | 2.78 |
| PPL | Cooling Tower Optimization | Mfg: Plastics | Process Cooling | Existing | building | 295,258 | 20% | 21.14 | 10 | \$1,811 | 15% | 5.25 |
| PPL | Equipment: Chillers | Mfg: Plastics | Process Cooling | Early | end use | 295,258 | 18% | 11.00 | 15 | \$13,857 | 50% | 1.94 |
| PPL | Equipment: Chillers | Mfg: Plastics | Process Cooling | New | end use | 295,258 | 18% | 11.00 | 15 | \$13,857 | 50% | 1.94 |
| PPL | Equipment: Chillers | Mfg: Plastics | Process Cooling | ROB | end use | 295,258 | 18% | 11.00 | 15 | \$13,857 | 50% | 1.94 |
| PPL | Facility Energy Management | Mfg: Plastics | Process Cooling | Existing | end use | 295,258 | 1.9% | 1.13 | 2 | \$114 | 63% | 1.19 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---------------------------------------|---------------|-----------------------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Facility Energy Management | Mfg: Plastics | Process Cooling | New | end use | 295,258 | 1.9% | 1.13 | 2 | \$114 | 63% | 1.19 |
| PPL | Improved Controls - Process Cooling | Mfg: Plastics | Process Cooling | Existing | end use | 295,258 | 6.0% | 3.69 | 10 | \$15,590 | 60% | 0.48 |
| PPL | Improved Controls - Process Cooling | Mfg: Plastics | Process Cooling | New | end use | 295,258 | 6.0% | 3.69 | 10 | \$15,590 | 60% | 0.48 |
| PPL | VFD on Cooling Tower Fan | Mfg: Plastics | Process Cooling | Early | motor | 295,258 | 21% | 18.58 | 15 | \$13,604 | 20% | 2.46 |
| PPL | VFD on Cooling Tower Fan | Mfg: Plastics | Process Cooling | New | motor | 295,258 | 22% | 18.58 | 15 | \$13,863 | 20% | 2.44 |
| PPL | VFD on Cooling Tower Fan | Mfg: Plastics | Process Cooling | ROB | motor | 295,258 | 22% | 18.58 | 15 | \$13,863 | 20% | 2.44 |
| PPL | Improved Controls - Process Heating | Mfg: Plastics | Process Heating | Existing | end use | 675,958 | 17% | 15.89 | 10 | \$7,766 | 77% | 3.04 |
| PPL | Improved Controls - Process Heating | Mfg: Plastics | Process Heating | New | end use | 675,958 | 17% | 15.89 | 10 | \$7,766 | 77% | 3.04 |
| PPL | Process Heat O&M | Mfg: Plastics | Process Heating | Existing | end use | 675,958 | 16% | 15.02 | 2 | \$4,694 | 77% | 0.88 |
| PPL | Process Heat O&M | Mfg: Plastics | Process Heating | New | end use | 675,958 | 16% | 15.02 | 2 | \$4,694 | 77% | 0.88 |
| PPL | Facility Energy Management | Mfg: Plastics | Process Other | Existing | end use | 445,404 | 1.9% | 1.15 | 2 | \$172 | 73% | 1.10 |
| PPL | Facility Energy Management | Mfg: Plastics | Process Other | New | end use | 445,404 | 1.9% | 1.15 | 2 | \$172 | 73% | 1.09 |
| PPL | Adjustable speed drive on compressors | Mfg: Plastics | Process Refrigeration | Early | end use | 151,671 | 12% | 2.60 | 10 | \$2,805 | 30% | 1.97 |
| PPL | Adjustable speed drive on compressors | Mfg: Plastics | Process Refrigeration | New | end use | 151,671 | 12% | 2.60 | 10 | \$2,805 | 30% | 1.97 |
| PPL | Adjustable speed drive on compressors | Mfg: Plastics | Process Refrigeration | ROB | end use | 151,671 | 12% | 2.60 | 10 | \$2,805 | 30% | 1.97 |
| PPL | Cooling Tower Optimization | Mfg: Plastics | Process Refrigeration | Existing | building | 151,671 | 20% | 10.86 | 10 | \$930 | 15% | 5.25 |
| PPL | Optimization of operating parameters | Mfg: Plastics | Process Refrigeration | Existing | end use | 151,671 | 13% | 2.91 | 3 | \$1,225 | 27% | 1.11 |
| PPL | Optimization of operating parameters | Mfg: Plastics | Process Refrigeration | New | end use | 151,671 | 13% | 2.91 | 3 | \$1,225 | 27% | 1.11 |
| PPL | Synchronous Belts | Mfg: Plastics | Process Refrigeration | Early | end use | 151,671 | 1.2% | 0.26 | 10 | \$224 | 30% | 2.29 |
| PPL | Synchronous Belts | Mfg: Plastics | Process Refrigeration | New | end use | 151,671 | 1.2% | 0.26 | 10 | \$224 | 30% | 2.29 |
| PPL | Synchronous Belts | Mfg: Plastics | Process Refrigeration | ROB | end use | 151,671 | 1.2% | 0.26 | 10 | \$224 | 30% | 2.29 |
| PPL | VFD on Cooling Tower Fan | Mfg: Plastics | Process Refrigeration | Early | motor | 151,671 | 21% | 9.54 | 15 | \$6,988 | 20% | 2.46 |
| PPL | VFD on Cooling Tower Fan | Mfg: Plastics | Process Refrigeration | New | motor | 151,671 | 22% | 9.54 | 15 | \$7,122 | 20% | 2.44 |
| PPL | VFD on Cooling Tower Fan | Mfg: Plastics | Process Refrigeration | ROB | motor | 151,671 | 22% | 9.54 | 15 | \$7,122 | 20% | 2.44 |
| PPL | Facility Energy Management | Mfg: Plastics | Pumps | Existing | end use | 1,294,647 | 1.9% | 3.10 | 2 | \$499 | 65% | 1.08 |
| PPL | Facility Energy Management | Mfg: Plastics | Pumps | New | end use | 1,294,647 | 1.9% | 3.10 | 2 | \$499 | 65% | 1.08 |
| PPL | HE Motors | Mfg: Plastics | Pumps | Early | end use | 1,294,647 | 2.0% | 3.45 | 15 | \$7,707 | 69% | 1.69 |
| PPL | HE Motors | Mfg: Plastics | Pumps | New | end use | 1,294,647 | 2.0% | 3.45 | 15 | \$7,707 | 69% | 1.69 |
| PPL | HE Motors | Mfg: Plastics | Pumps | ROB | end use | 1,294,647 | 2.0% | 3.45 | 15 | \$7,707 | 69% | 1.69 |
| PPL | Motor rewinds | Mfg: Plastics | Pumps | Existing | end use | 1,294,647 | 0.6% | 1.00 | 9 | \$1,841 | 11% | 1.23 |
| PPL | Motor rewinds | Mfg: Plastics | Pumps | New | end use | 1,294,647 | 0.6% | 1.00 | 9 | \$1,841 | 11% | 1.22 |
| PPL | Pump Equipment Upgrade | Mfg: Plastics | Pumps | Early | end use | 1,294,647 | 20% | 33.69 | 12 | \$32,366 | 77% | 2.57 |
| PPL | Pump Equipment Upgrade | Mfg: Plastics | Pumps | New | end use | 1,294,647 | 20% | 33.69 | 12 | \$32,366 | 77% | 2.57 |
| PPL | Pump Equipment Upgrade | Mfg: Plastics | Pumps | ROB | end use | 1,294,647 | 20% | 33.69 | 12 | \$32,366 | 77% | 2.57 |
| PPL | Pump System Optimization | Mfg: Plastics | Pumps | Existing | end use | 1,294,647 | 8.7% | 14.65 | 12 | \$23,704 | 36% | 1.74 |
| PPL | Pump System Optimization | Mfg: Plastics | Pumps | New | end use | 1,294,647 | 8.7% | 14.65 | 12 | \$23,704 | 36% | 1.74 |
| PPL | Synchronous Belts | Mfg: Plastics | Pumps | Early | end use | 1,294,647 | 1.2% | 1.96 | 10 | \$1,908 | 57% | 2.16 |
| PPL | Synchronous Belts | Mfg: Plastics | Pumps | New | end use | 1,294,647 | 1.2% | 1.96 | 10 | \$1,908 | 57% | 2.16 |
| PPL | Synchronous Belts | Mfg: Plastics | Pumps | ROB | end use | 1,294,647 | 1.2% | 1.96 | 10 | \$1,908 | 57% | 2.16 |
| PPL | <65k BTU/hr 14 SEER Air Conditioner | Mining | HVAC | Early | unit (ton) | 26,608 | 9.2% | 0.63 | 15 | \$4,847 | 28% | 0.34 |
| PPL | <65k BTU/hr 14 SEER Air Conditioner | Mining | HVAC | New | unit (ton) | 26,608 | 4.1% | 0.28 | 15 | \$1,174 | 28% | 0.61 |
| PPL | <65k BTU/hr 14 SEER Air Conditioner | Mining | HVAC | ROB | unit (ton) | 26,608 | 4.1% | 0.28 | 15 | \$1,174 | 28% | 0.61 |
| PPL | <65k BTU/hr 15 SEER Air Conditioner | Mining | HVAC | Early | unit (ton) | 26,608 | 12% | 0.86 | 15 | \$5,714 | 28% | 0.38 |
| PPL | <65k BTU/hr 15 SEER Air Conditioner | Mining | HVAC | New | unit (ton) | 26,608 | 7.7% | 0.53 | 15 | \$2,473 | 28% | 0.54 |
| PPL | <65k BTU/hr 15 SEER Air Conditioner | Mining | HVAC | ROB | unit (ton) | 26,608 | 7.7% | 0.53 | 15 | \$2,473 | 28% | 0.54 |
| PPL | <65k BTU/hr 16 SEER Air Conditioner | Mining | HVAC | Early | unit (ton) | 26,608 | 15% | 1.05 | 15 | \$6,581 | 29% | 0.41 |
| PPL | <65k BTU/hr 16 SEER Air Conditioner | Mining | HVAC | New | unit (ton) | 26,608 | 11% | 0.75 | 15 | \$3,772 | 29% | 0.50 |
| PPL | <65k BTU/hr 16 SEER Air Conditioner | Mining | HVAC | ROB | unit (ton) | 26,608 | 11% | 0.75 | 15 | \$3,772 | 29% | 0.50 |
| PPL | >760k min 10.2 EER Air Conditioner | Mining | HVAC | Early | unit (ton) | 26,608 | 2.1% | 0.15 | 15 | \$8,441 | 35% | 0.05 |
| PPL | >760k min 10.2 EER Air Conditioner | Mining | HVAC | New | unit (ton) | 26,608 | 2.8% | 0.20 | 15 | \$763 | 35% | 0.64 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|---------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | >760k min 10.2 EER Air Conditioner | Mining | HVAC | ROB | unit (ton) | 26,608 | 2.8% | 0.20 | 15 | \$763 | 35% | 0.64 |
| PPL | 135-240k min 12 EER Air Conditioner | Mining | HVAC | Early | unit (ton) | 26,608 | 10% | 0.72 | 15 | \$9,140 | 35% | 0.21 |
| PPL | 135-240k min 12 EER Air Conditioner | Mining | HVAC | New | unit (ton) | 26,608 | 5.8% | 0.40 | 15 | \$1,079 | 35% | 0.90 |
| PPL | 135-240k min 12 EER Air Conditioner | Mining | HVAC | ROB | unit (ton) | 26,608 | 5.8% | 0.40 | 15 | \$1,079 | 35% | 0.90 |
| PPL | 240k-760k min 11 EER Air Conditioner | Mining | HVAC | Early | unit (ton) | 26,608 | 5.2% | 0.36 | 15 | \$8,446 | 35% | 0.11 |
| PPL | 240k-760k min 11 EER Air Conditioner | Mining | HVAC | New | unit (ton) | 26,608 | 5.3% | 0.37 | 15 | \$905 | 35% | 0.98 |
| PPL | 240k-760k min 11 EER Air Conditioner | Mining | HVAC | ROB | unit (ton) | 26,608 | 5.3% | 0.37 | 15 | \$905 | 35% | 0.98 |
| PPL | 65k-135k BTU/hr 12 EER Air Conditioner | Mining | HVAC | Early | unit (ton) | 26,608 | 9.7% | 0.67 | 15 | \$9,359 | 35% | 0.19 |
| PPL | 65k-135k BTU/hr 12 EER Air Conditioner | Mining | HVAC | New | unit (ton) | 26,608 | 3.8% | 0.27 | 15 | \$1,335 | 35% | 0.50 |
| PPL | 65k-135k BTU/hr 12 EER Air Conditioner | Mining | HVAC | ROB | unit (ton) | 26,608 | 3.8% | 0.27 | 15 | \$1,335 | 35% | 0.50 |
| PPL | Ceiling Insualtions (Going upto R 20) | Mining | HVAC | Existing | building | 26,608 | 5.9% | 0.40 | 15 | \$80,618 | 71% | 0.01 |
| PPL | Ceiling Insualtions (Going upto R 20) | Mining | HVAC | New | building | 26,608 | 3.7% | 0.25 | 15 | \$76,630 | 94% | 0.01 |
| PPL | Chiller Tuneup/Diagnostics | Mining | HVAC | Existing | building | 26,608 | 8.0% | 0.78 | 10 | \$67,943 | 59% | 0.02 |
| PPL | Chiller Tuneup/Diagnostics | Mining | HVAC | New | building | 26,608 | 8.0% | 0.78 | 10 | \$67,943 | 59% | 0.02 |
| PPL | Cooling Tower Optimization | Mining | HVAC | Existing | building | 26,608 | 20% | 1.90 | 10 | \$163 | 12% | 5.25 |
| PPL | Duct Insulation, Add R8 | Mining | HVAC | Existing | building | 26,608 | 1.5% | 0.09 | 15 | \$211 | 18% | 1.10 |
| PPL | Duct Insulation, Add R8 | Mining | HVAC | New | building | 26,608 | 1.5% | 0.09 | 15 | \$211 | 9% | 1.10 |
| PPL | Ductless Heat Pump | Mining | HVAC | Early | heat pump | 26,608 | 0.8% | 0.05 | 15 | \$2,113 | 83% | 0.07 |
| PPL | Ductless Heat Pump | Mining | HVAC | New | heat pump | 26,608 | 0.4% | 0.03 | 15 | \$614 | 83% | 0.13 |
| PPL | Ductless Heat Pump | Mining | HVAC | ROB | heat pump | 26,608 | 0.4% | 0.03 | 15 | \$614 | 83% | 0.13 |
| PPL | DX Coil Cleaning | Mining | HVAC | Existing | building | 26,608 | 13% | 1.22 | 1 | \$255 | 73% | 0.48 |
| PPL | DX Coil Cleaning | Mining | HVAC | New | building | 26,608 | 13% | 1.22 | 1 | \$255 | 73% | 0.48 |
| PPL | Efficient Unit Heating System | Mining | HVAC | Early | heater | 26,608 | 6.9% | 0.02 | 15 | \$1,433 | 83% | 0.62 |
| PPL | Efficient Unit Heating System | Mining | HVAC | New | heater | 26,608 | 4.0% | 0.01 | 15 | \$978 | 83% | 0.53 |
| PPL | Efficient Unit Heating System | Mining | HVAC | ROB | heater | 26,608 | 4.0% | 0.01 | 15 | \$978 | 83% | 0.53 |
| PPL | Ground Source Heat Pump (Closed Loop) | Mining | HVAC | Early | heat pump | 26,608 | 1.3% | 0.08 | 15 | \$4,388 | 19% | 0.05 |
| PPL | Ground Source Heat Pump (Closed Loop) | Mining | HVAC | New | heat pump | 26,608 | 1.0% | 0.06 | 15 | \$1,733 | 19% | 0.10 |
| PPL | Ground Source Heat Pump (Closed Loop) | Mining | HVAC | ROB | heat pump | 26,608 | 1.0% | 0.06 | 15 | \$1,733 | 19% | 0.10 |
| PPL | Ground Source Heat Pump (Open Loop) | Mining | HVAC | Early | heat pump | 26,608 | 1.3% | 0.08 | 15 | \$2,810 | 19% | 0.08 |
| PPL | Ground Source Heat Pump (Open Loop) | Mining | HVAC | New | heat pump | 26,608 | 1.0% | 0.06 | 15 | \$60 | 19% | 2.32 |
| PPL | Ground Source Heat Pump (Open Loop) | Mining | HVAC | ROB | heat pump | 26,608 | 1.0% | 0.06 | 15 | \$60 | 19% | 2.32 |
| PPL | HE Air Cooled Chiller, 100 Tons | Mining | HVAC | Early | unit (ton) | 26,608 | 1.5% | 0.09 | 15 | \$31,282 | 89% | 0.01 |
| PPL | HE Air Cooled Chiller, 100 Tons | Mining | HVAC | New | unit (ton) | 26,608 | 0.4% | 0.02 | 15 | \$4,557 | 89% | 0.02 |
| PPL | HE Air Cooled Chiller, 100 Tons | Mining | HVAC | ROB | unit (ton) | 26,608 | 0.4% | 0.02 | 15 | \$4,557 | 89% | 0.02 |
| PPL | HE Air Cooled Chiller, 150 Tons | Mining | HVAC | Early | unit (ton) | 26,608 | 1.5% | 0.09 | 15 | \$27,021 | 89% | 0.01 |
| PPL | HE Air Cooled Chiller, 150 Tons | Mining | HVAC | New | unit (ton) | 26,608 | 0.3% | 0.02 | 15 | \$2,238 | 89% | 0.02 |
| PPL | HE Air Cooled Chiller, 150 Tons | Mining | HVAC | ROB | unit (ton) | 26,608 | 0.3% | 0.02 | 15 | \$2,238 | 89% | 0.02 |
| PPL | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mining | HVAC | Early | heat pump | 26,608 | 1.4% | 0.08 | 12 | \$1,145 | 81% | 0.17 |
| PPL | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mining | HVAC | Early | heat pump | 26,608 | 1.1% | 0.07 | 12 | \$837 | 81% | 0.20 |
| PPL | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mining | HVAC | New | heat pump | 26,608 | 1.0% | 0.06 | 12 | \$511 | 81% | 0.29 |
| PPL | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mining | HVAC | New | heat pump | 26,608 | 0.8% | 0.05 | 12 | \$179 | 81% | 0.58 |
| PPL | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mining | HVAC | ROB | heat pump | 26,608 | 1.0% | 0.06 | 12 | \$511 | 81% | 0.29 |
| PPL | HE Air Source Heat Pump (12 EER, 3.6 COP) | Mining | HVAC | ROB | heat pump | 26,608 | 0.8% | 0.05 | 12 | \$179 | 81% | 0.58 |
| PPL | HE Water Cooled Centrifugal Chiller, 175 Tons | Mining | HVAC | Early | unit (ton) | 26,608 | 1.6% | 0.10 | 15 | \$2,482 | 89% | 0.11 |
| PPL | HE Water Cooled Centrifugal Chiller, 175 Tons | Mining | HVAC | New | unit (ton) | 26,608 | 0.9% | 0.06 | 15 | \$826 | 89% | 0.20 |
| PPL | HE Water Cooled Centrifugal Chiller, 175 Tons | Mining | HVAC | ROB | unit (ton) | 26,608 | 0.9% | 0.06 | 15 | \$826 | 89% | 0.20 |
| PPL | HE Water Cooled Centrifugal Chiller, 300 Tons | Mining | HVAC | Early | unit (ton) | 26,608 | 1.4% | 0.09 | 15 | \$2,424 | 89% | 0.10 |
| PPL | HE Water Cooled Centrifugal Chiller, 300 Tons | Mining | HVAC | New | unit (ton) | 26,608 | 1.0% | 0.06 | 15 | \$473 | 89% | 0.36 |
| PPL | HE Water Cooled Centrifugal Chiller, 300 Tons | Mining | HVAC | ROB | unit (ton) | 26,608 | 1.4% | 0.08 | 15 | \$435 | 89% | 0.55 |
| PPL | HE Water Cooled Centrifugal Chiller, 500 Tons | Mining | HVAC | Early | unit (ton) | 26,608 | 1.4% | 0.08 | 15 | \$2,869 | 89% | 0.09 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|---------|----------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | HE Water Cooled Centrifugal Chiller, 500 Tons | Mining | HVAC | New | unit (ton) | 26,608 | 0.9% | 0.05 | 15 | \$1,208 | 89% | 0.13 |
| PPL | HE Water Cooled Centrifugal Chiller, 500 Tons | Mining | HVAC | ROB | unit (ton) | 26,608 | 1.4% | 0.08 | 15 | \$1,093 | 89% | 0.22 |
| PPL | HE Water Cooled Centrifugal Chiller, 600 Tons | Mining | HVAC | Early | unit (ton) | 26,608 | 1.4% | 0.08 | 15 | \$2,764 | 89% | 0.09 |
| PPL | HE Water Cooled Centrifugal Chiller, 600 Tons | Mining | HVAC | New | unit (ton) | 26,608 | 0.9% | 0.05 | 15 | \$1,050 | 89% | 0.15 |
| PPL | HE Water Cooled Centrifugal Chiller, 600 Tons | Mining | HVAC | ROB | unit (ton) | 26,608 | 1.4% | 0.08 | 15 | \$950 | 89% | 0.26 |
| PPL | HE Water Cooled Reciprocating Chiller, 100 Tons | Mining | HVAC | Early | unit (ton) | 26,608 | 1.8% | 0.11 | 15 | \$2,978 | 89% | 0.11 |
| PPL | HE Water Cooled Reciprocating Chiller, 100 Tons | Mining | HVAC | New | unit (ton) | 26,608 | 0.6% | 0.03 | 15 | \$1,844 | 89% | 0.05 |
| PPL | HE Water Cooled Reciprocating Chiller, 100 Tons | Mining | HVAC | ROB | unit (ton) | 26,608 | 1.8% | 0.11 | 15 | \$1,432 | 89% | 0.22 |
| PPL | HE Water Cooled Reciprocating Chiller, 175 Tons | Mining | HVAC | Early | unit (ton) | 26,608 | 2.2% | 0.13 | 15 | \$2,739 | 89% | 0.14 |
| PPL | HE Water Cooled Reciprocating Chiller, 175 Tons | Mining | HVAC | New | unit (ton) | 26,608 | 0.8% | 0.05 | 15 | \$1,099 | 89% | 0.13 |
| PPL | HE Water Cooled Reciprocating Chiller, 175 Tons | Mining | HVAC | ROB | unit (ton) | 26,608 | 0.8% | 0.05 | 15 | \$1,099 | 89% | 0.13 |
| PPL | HE Water Cooled Reciprocating Chiller, 300 Tons | Mining | HVAC | Early | unit (ton) | 26,608 | 2.4% | 0.15 | 15 | \$2,321 | 89% | 0.18 |
| PPL | HE Water Cooled Reciprocating Chiller, 300 Tons | Mining | HVAC | New | unit (ton) | 26,608 | 0.9% | 0.05 | 15 | \$584 | 89% | 0.27 |
| PPL | HE Water Cooled Reciprocating Chiller, 300 Tons | Mining | HVAC | ROB | unit (ton) | 26,608 | 2.4% | 0.15 | 15 | \$416 | 89% | 0.94 |
| PPL | HE Water Cooled Reciprocating Chiller, 50 Tons | Mining | HVAC | Early | unit (ton) | 26,608 | 1.8% | 0.11 | 15 | \$2,298 | 89% | 0.14 |
| PPL | HE Water Cooled Reciprocating Chiller, 50 Tons | Mining | HVAC | New | unit (ton) | 26,608 | 0.7% | 0.04 | 15 | \$644 | 89% | 0.19 |
| PPL | HE Water Cooled Reciprocating Chiller, 50 Tons | Mining | HVAC | ROB | unit (ton) | 26,608 | 1.8% | 0.11 | 15 | \$510 | 89% | 0.60 |
| PPL | HVAC Diagnostic/Air Conditioner Tune Up | Mining | HVAC | Existing | building | 26,608 | 2.9% | 0.16 | 5 | \$282 | 55% | 0.57 |
| PPL | HVAC Diagnostic/Air Conditioner Tune Up | Mining | HVAC | New | building | 26,608 | 0.6% | 0.06 | 5 | \$169 | 51% | 0.28 |
| PPL | Outside Air Economizer | Mining | HVAC | Existing | building | 26,608 | 1.1% | 0.07 | 10 | \$97,763 | 82% | 0.00 |
| PPL | Outside Air Economizer | Mining | HVAC | New | building | 26,608 | 1.1% | 0.07 | 10 | \$97,763 | 82% | 0.00 |
| PPL | Room AC (with louvered sides) | Mining | HVAC | Early | unit (ton) | 26,608 | 7.7% | 0.46 | 9 | \$2,086 | 78% | 0.39 |
| PPL | Room AC (with louvered sides) | Mining | HVAC | New | unit (ton) | 26,608 | 2.6% | 0.15 | 9 | \$114 | 78% | 1.77 |
| PPL | Room AC (with louvered sides) | Mining | HVAC | ROB | unit (ton) | 26,608 | 2.6% | 0.15 | 9 | \$114 | 78% | 1.77 |
| PPL | Variable Refrigerant Flow Heat Pump | Mining | HVAC | New | measure | 26,608 | 0.1% | 0.01 | 13 | \$197 | 43% | 0.09 |
| PPL | Variable Refrigerant Flow Heat Pump | Mining | HVAC | ROB | measure | 26,608 | 0.1% | 0.01 | 13 | \$197 | 43% | 0.09 |
| PPL | VFD on Cooling Tower Fan | Mining | HVAC | Early | motor | 26,608 | 21% | 1.67 | 15 | \$1,226 | 20% | 2.52 |
| PPL | VFD on Cooling Tower Fan | Mining | HVAC | New | motor | 26,608 | 22% | 1.67 | 15 | \$1,249 | 15% | 2.51 |
| PPL | VFD on Cooling Tower Fan | Mining | HVAC | ROB | motor | 26,608 | 22% | 1.67 | 15 | \$1,249 | 15% | 2.51 |
| PPL | Wall Insualtions (Going upto R 21) | Mining | HVAC | Existing | building | 26,608 | 19% | 1.27 | 15 | \$18,928 | 26% | 0.18 |
| PPL | Wall Insualtions (Going upto R 21) | Mining | HVAC | New | building | 26,608 | 0.6% | 0.04 | 15 | \$14,519 | 94% | 0.01 |
| PPL | Water Source Heat Pump (4 ton) | Mining | HVAC | Early | heat pump | 26,608 | 1.5% | 0.09 | 15 | \$4,544 | 6% | 0.06 |
| PPL | Water Source Heat Pump (4 ton) | Mining | HVAC | New | heat pump | 26,608 | 1.1% | 0.07 | 15 | \$2,215 | 6% | 0.09 |
| PPL | Water Source Heat Pump (4 ton) | Mining | HVAC | ROB | heat pump | 26,608 | 1.1% | 0.07 | 15 | \$2,215 | 6% | 0.09 |
| PPL | Efficient Metal Halide (High Bay) | Mining | Lighting | Early | end use | 21,618 | 42% | 0.00 | 9 | \$3,378 | 53% | 0.76 |
| PPL | Efficient Metal Halide (High Bay) | Mining | Lighting | New | end use | 21,618 | 41% | 0.00 | 13 | \$90,230 | 61% | 0.05 |
| PPL | Efficient Metal Halide (High Bay) | Mining | Lighting | ROB | end use | 21,618 | 41% | 0.00 | 13 | \$68,959 | 61% | 0.06 |
| PPL | Induction (High Bay) | Mining | Lighting | Early | end use | 21,618 | 94% | 0.00 | 13 | \$10,051 | 95% | 0.85 |
| PPL | Induction (High Bay) | Mining | Lighting | New | end use | 21,618 | 94% | 0.00 | 13 | \$9,410 | 95% | 0.90 |
| PPL | Induction (High Bay) | Mining | Lighting | ROB | end use | 21,618 | 94% | 0.00 | 13 | \$7,152 | 95% | 1.14 |
| PPL | LED (High Bay) | Mining | Lighting | Early | end use | 21,618 | 69% | 0.00 | 14 | \$11,832 | 95% | 0.59 |
| PPL | LED (High Bay) | Mining | Lighting | New | end use | 21,618 | 55% | 0.00 | 14 | \$13,133 | 95% | 0.43 |
| PPL | LED (High Bay) | Mining | Lighting | ROB | end use | 21,618 | 59% | 0.00 | 14 | \$8,653 | 95% | 0.68 |
| PPL | Lighting Controls | Mining | Lighting | Existing | end use | 21,618 | 20% | 0.00 | 6 | \$81,044 | 16% | 0.01 |
| PPL | Lighting Controls | Mining | Lighting | New | end use | 21,618 | 12% | 0.00 | 10 | \$107,815 | 11% | 0.01 |
| PPL | Linear Fluorescent (High Bay) | Mining | Lighting | Early | end use | 21,618 | 17% | 0.00 | 14 | \$2,474 | 98% | 0.68 |
| PPL | Linear Fluorescent (High Bay) | Mining | Lighting | New | end use | 21,618 | 13% | 0.00 | 14 | \$784 | 91% | 1.44 |
| PPL | Linear Fluorescent (High Bay) | Mining | Lighting | ROB | end use | 21,618 | 13% | 0.00 | 14 | \$502 | 91% | 2.07 |
| PPL | Metal Halide (High Bay) | Mining | Lighting | Early | end use | 21,618 | 62% | 0.00 | 13 | \$14,861 | 38% | 0.41 |
| PPL | Metal Halide (High Bay) | Mining | Lighting | New | end use | 21,618 | 73% | 0.00 | 13 | \$3,553 | 38% | 1.61 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---------------------------------------|---------|----------|----------|---------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Metal Halide (High Bay) | Mining | Lighting | ROB | end use | 21,618 | 73% | 0.00 | 13 | \$2,700 | 38% | 1.97 |
| PPL | Screw Base CFL | Mining | Lighting | Early | end use | 21,618 | 80% | 0.00 | 7 | \$5,873 | 17% | 0.66 |
| PPL | Screw Base CFL | Mining | Lighting | New | end use | 21,618 | 73% | 0.00 | 9 | \$4,800 | 18% | 0.90 |
| PPL | Screw Base CFL | Mining | Lighting | ROB | end use | 21,618 | 73% | 0.00 | 9 | \$4,017 | 17% | 1.03 |
| PPL | Screw Base LED | Mining | Lighting | Early | end use | 21,618 | 76% | 0.00 | 9 | \$3,604 | 21% | 1.21 |
| PPL | Screw Base LED | Mining | Lighting | New | end use | 21,618 | 77% | 0.00 | 9 | \$2,008 | 20% | 1.84 |
| PPL | Screw Base LED | Mining | Lighting | ROB | end use | 21,618 | 77% | 0.00 | 9 | \$1,594 | 21% | 2.12 |
| PPL | T8 High Performance Linear Florescent | Mining | Lighting | Early | end use | 21,618 | 36% | 0.00 | 14 | \$2,069 | 71% | 1.52 |
| PPL | T8 High Performance Linear Florescent | Mining | Lighting | New | end use | 21,618 | 26% | 0.00 | 14 | \$740 | 76% | 2.56 |
| PPL | T8 High Performance Linear Florescent | Mining | Lighting | ROB | end use | 21,618 | 26% | 0.00 | 14 | \$563 | 76% | 3.03 |
| PPL | Enhanced (Ultra-PE) Motor 1-15 HP | Mining | Motors | Early | end use | 35,925 | 0.9% | 0.05 | 15 | \$549 | 81% | 0.36 |
| PPL | Enhanced (Ultra-PE) Motor 1-15 HP | Mining | Motors | New | end use | 35,925 | 0.9% | 0.05 | 15 | \$549 | 81% | 0.36 |
| PPL | Enhanced (Ultra-PE) Motor 1-15 HP | Mining | Motors | ROB | end use | 35,925 | 0.9% | 0.05 | 15 | \$549 | 81% | 0.36 |
| PPL | Enhanced (Ultra-PE) Motor 125-200 HP | Mining | Motors | Early | end use | 35,925 | 0.8% | 0.04 | 15 | \$333 | 73% | 0.47 |
| PPL | Enhanced (Ultra-PE) Motor 125-200 HP | Mining | Motors | New | end use | 35,925 | 0.7% | 0.04 | 15 | \$333 | 73% | 0.47 |
| PPL | Enhanced (Ultra-PE) Motor 125-200 HP | Mining | Motors | ROB | end use | 35,925 | 0.7% | 0.04 | 15 | \$333 | 73% | 0.47 |
| PPL | Enhanced (Ultra-PE) Motor 20-40 HP | Mining | Motors | Early | end use | 35,925 | 0.5% | 0.02 | 15 | \$128 | 81% | 0.73 |
| PPL | Enhanced (Ultra-PE) Motor 20-40 HP | Mining | Motors | New | end use | 35,925 | 0.5% | 0.02 | 15 | \$128 | 81% | 0.72 |
| PPL | Enhanced (Ultra-PE) Motor 20-40 HP | Mining | Motors | ROB | end use | 35,925 | 0.5% | 0.02 | 15 | \$128 | 81% | 0.73 |
| PPL | Enhanced (Ultra-PE) Motor 250-500 HP | Mining | Motors | Early | end use | 35,925 | 0.4% | 0.02 | 15 | \$42 | 73% | 1.68 |
| PPL | Enhanced (Ultra-PE) Motor 250-500 HP | Mining | Motors | New | end use | 35,925 | 0.4% | 0.02 | 15 | \$42 | 73% | 1.73 |
| PPL | Enhanced (Ultra-PE) Motor 250-500 HP | Mining | Motors | ROB | end use | 35,925 | 0.4% | 0.02 | 15 | \$42 | 73% | 1.70 |
| PPL | Enhanced (Ultra-PE) Motor 50-100 HP | Mining | Motors | Early | end use | 35,925 | 0.9% | 0.05 | 15 | \$63 | 47% | 2.38 |
| PPL | Enhanced (Ultra-PE) Motor 50-100 HP | Mining | Motors | New | end use | 35,925 | 0.9% | 0.05 | 15 | \$63 | 47% | 2.39 |
| PPL | Enhanced (Ultra-PE) Motor 50-100 HP | Mining | Motors | ROB | end use | 35,925 | 0.9% | 0.05 | 15 | \$63 | 47% | 2.38 |
| PPL | HE Motors | Mining | Motors | Early | end use | 35,925 | 2.0% | 0.11 | 15 | \$214 | 38% | 1.71 |
| PPL | HE Motors | Mining | Motors | New | end use | 35,925 | 2.0% | 0.11 | 15 | \$214 | 38% | 1.71 |
| PPL | HE Motors | Mining | Motors | ROB | end use | 35,925 | 2.0% | 0.11 | 15 | \$214 | 38% | 1.71 |
| PPL | Improved Controls - Motors | Mining | Motors | Existing | end use | 35,925 | 4.0% | 0.20 | 10 | \$156 | 13% | 2.33 |
| PPL | Improved Controls - Motors | Mining | Motors | New | end use | 35,925 | 4.0% | 0.20 | 10 | \$156 | 13% | 2.33 |
| PPL | Material Handling | Mining | Motors | Early | end use | 35,925 | 18% | 0.95 | 10 | \$1,737 | 77% | 1.30 |
| PPL | Material Handling | Mining | Motors | New | end use | 35,925 | 18% | 0.95 | 10 | \$1,737 | 77% | 1.30 |
| PPL | Material Handling | Mining | Motors | ROB | end use | 35,925 | 18% | 0.95 | 10 | \$1,737 | 77% | 1.30 |
| PPL | Material Handling VFD | Mining | Motors | Early | end use | 35,925 | 16% | 0.83 | 10 | \$1,201 | 77% | 1.56 |
| PPL | Material Handling VFD | Mining | Motors | New | end use | 35,925 | 16% | 0.83 | 10 | \$1,201 | 77% | 1.56 |
| PPL | Material Handling VFD | Mining | Motors | ROB | end use | 35,925 | 16% | 0.83 | 10 | \$1,201 | 77% | 1.56 |
| PPL | Motor Management Plan | Mining | Motors | Existing | end use | 35,925 | 2.9% | 0.15 | 10 | \$73 | 73% | 2.99 |
| PPL | Motor Management Plan | Mining | Motors | New | end use | 35,925 | 2.9% | 0.15 | 10 | \$73 | 73% | 2.99 |
| PPL | Motors Other | Mining | Motors | Existing | end use | 35,925 | 1.4% | 0.07 | 15 | \$9.1 | 83% | 6.80 |
| PPL | Motors Other | Mining | Motors | New | end use | 35,925 | 1.4% | 0.07 | 15 | \$9.1 | 83% | 6.81 |
| PPL | Motors: Rewind 101-200 HP | Mining | Motors | Existing | end use | 35,925 | 0.6% | 0.03 | 10 | \$45 | 27% | 1.43 |
| PPL | Motors: Rewind 101-200 HP | Mining | Motors | New | end use | 35,925 | 0.6% | 0.03 | 10 | \$45 | 27% | 1.42 |
| PPL | Motors: Rewind 201-500 HP | Mining | Motors | Existing | end use | 35,925 | 0.6% | 0.03 | 8 | \$29 | 27% | 1.63 |
| PPL | Motors: Rewind 201-500 HP | Mining | Motors | New | end use | 35,925 | 0.6% | 0.03 | 8 | \$29 | 27% | 1.63 |
| PPL | Motors: Rewind 20-50 HP | Mining | Motors | Existing | end use | 35,925 | 1.0% | 0.05 | 11 | \$133 | 42% | 1.08 |
| PPL | Motors: Rewind 20-50 HP | Mining | Motors | New | end use | 35,925 | 1.0% | 0.05 | 11 | \$133 | 42% | 1.09 |
| PPL | Motors: Rewind 500+ HP | Mining | Motors | Existing | end use | 35,925 | 0.6% | 0.03 | 8 | \$20 | 11% | 2.03 |
| PPL | Motors: Rewind 500+ HP | Mining | Motors | New | end use | 35,925 | 0.6% | 0.03 | 8 | \$20 | 11% | 2.03 |
| PPL | Motors: Rewind 51-100 HP | Mining | Motors | Existing | end use | 35,925 | 0.6% | 0.03 | 9 | \$66 | 42% | 1.03 |
| PPL | Motors: Rewind 51-100 HP | Mining | Motors | New | end use | 35,925 | 0.6% | 0.03 | 9 | \$66 | 42% | 1.03 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|---------------|------------------------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Switch from Belt drive to Direct Drive | Mining | Motors | Early | end use | 35,925 | 7.5% | 0.39 | 12 | \$576 | 30% | 1.79 |
| PPL | Switch from Belt drive to Direct Drive | Mining | Motors | New | end use | 35,925 | 7.5% | 0.39 | 12 | \$576 | 30% | 1.79 |
| PPL | Switch from Belt drive to Direct Drive | Mining | Motors | ROB | end use | 35,925 | 7.5% | 0.39 | 12 | \$576 | 30% | 1.79 |
| PPL | Synchronous Belts | Mining | Motors | Early | end use | 35,925 | 1.2% | 0.06 | 10 | \$53 | 30% | 2.20 |
| PPL | Synchronous Belts | Mining | Motors | New | end use | 35,925 | 1.2% | 0.06 | 10 | \$53 | 30% | 2.20 |
| PPL | Synchronous Belts | Mining | Motors | ROB | end use | 35,925 | 1.2% | 0.06 | 10 | \$53 | 30% | 2.20 |
| PPL | Air Compressor Demand Reduction | Mining | Process Air Compressor | Existing | end use | 800 | 26% | 0.03 | 10 | \$12 | 52% | 3.22 |
| PPL | Air Compressor Demand Reduction | Mining | Process Air Compressor | New | end use | 800 | 26% | 0.03 | 10 | \$12 | 52% | 3.22 |
| PPL | Cooling Tower Optimization | Mining | Process Cooling | Existing | building | 13,032 | 20% | 0.93 | 10 | \$80 | 15% | 5.25 |
| PPL | VFD on Cooling Tower Fan | Mining | Process Cooling | Early | motor | 13,032 | 21% | 0.82 | 15 | \$600 | 20% | 2.46 |
| PPL | VFD on Cooling Tower Fan | Mining | Process Cooling | New | motor | 13,032 | 22% | 0.82 | 15 | \$612 | 20% | 2.44 |
| PPL | VFD on Cooling Tower Fan | Mining | Process Cooling | ROB | motor | 13,032 | 22% | 0.82 | 15 | \$612 | 20% | 2.44 |
| PPL | Cooling Tower Optimization | Mining | Process Refrigeration | Existing | building | 6,694 | 20% | 0.48 | 10 | \$41 | 15% | 5.25 |
| PPL | VFD on Cooling Tower Fan | Mining | Process Refrigeration | Early | motor | 6,694 | 21% | 0.42 | 15 | \$308 | 20% | 2.46 |
| PPL | VFD on Cooling Tower Fan | Mining | Process Refrigeration | New | motor | 6,694 | 22% | 0.42 | 15 | \$314 | 20% | 2.44 |
| PPL | VFD on Cooling Tower Fan | Mining | Process Refrigeration | ROB | motor | 6,694 | 22% | 0.42 | 15 | \$314 | 20% | 2.44 |
| PPL | Agricultural Exhaust Fans (Rate 21 CFM) | Other Non-Mfg | Fans | Early | end use | 6,392 | 5.0% | 0.04 | 15 | \$81 | 11% | 1.94 |
| PPL | Agricultural Exhaust Fans (Rate 21 CFM) | Other Non-Mfg | Fans | New | end use | 6,392 | 5.0% | 0.04 | 15 | \$81 | 11% | 1.94 |
| PPL | Agricultural Exhaust Fans (Rate 21 CFM) | Other Non-Mfg | Fans | ROB | end use | 6,392 | 5.0% | 0.04 | 15 | \$81 | 11% | 1.93 |
| PPL | Circulating Fans | Other Non-Mfg | Fans | Early | end use | 6,392 | 5.0% | 0.04 | 10 | \$39 | 53% | 2.28 |
| PPL | Circulating Fans | Other Non-Mfg | Fans | New | end use | 6,392 | 5.0% | 0.04 | 10 | \$39 | 53% | 2.28 |
| PPL | Circulating Fans | Other Non-Mfg | Fans | ROB | end use | 6,392 | 5.0% | 0.04 | 10 | \$39 | 53% | 2.28 |
| PPL | Facility Energy Management | Other Non-Mfg | Fans | Existing | end use | 6,392 | 1.9% | 0.01 | 2 | \$2.5 | 61% | 1.07 |
| PPL | Facility Energy Management | Other Non-Mfg | Fans | New | end use | 6,392 | 1.9% | 0.01 | 2 | \$2.5 | 61% | 1.06 |
| PPL | Fan Equipment Upgrade | Other Non-Mfg | Fans | Early | end use | 6,392 | 35% | 0.27 | 10 | \$192 | 53% | 2.80 |
| PPL | Fan Equipment Upgrade | Other Non-Mfg | Fans | New | end use | 6,392 | 35% | 0.27 | 10 | \$192 | 53% | 2.80 |
| PPL | Fan Equipment Upgrade | Other Non-Mfg | Fans | ROB | end use | 6,392 | 35% | 0.27 | 10 | \$192 | 53% | 2.80 |
| PPL | Fan System Optimization | Other Non-Mfg | Fans | Existing | end use | 6,392 | 7.3% | 0.06 | 10 | \$87 | 66% | 1.59 |
| PPL | Fan System Optimization | Other Non-Mfg | Fans | New | end use | 6,392 | 7.3% | 0.06 | 10 | \$87 | 66% | 1.59 |
| PPL | HE Motors | Other Non-Mfg | Fans | Early | end use | 6,392 | 2.0% | 0.02 | 15 | \$38 | 61% | 1.73 |
| PPL | HE Motors | Other Non-Mfg | Fans | New | end use | 6,392 | 2.0% | 0.02 | 15 | \$38 | 61% | 1.73 |
| PPL | HE Motors | Other Non-Mfg | Fans | ROB | end use | 6,392 | 2.0% | 0.02 | 15 | \$38 | 61% | 1.73 |
| PPL | High Volume Low Speed Fans | Other Non-Mfg | Fans | Early | end use | 6,392 | 47% | 0.35 | 15 | \$4,805 | 53% | 0.37 |
| PPL | High Volume Low Speed Fans | Other Non-Mfg | Fans | New | end use | 6,392 | 47% | 0.35 | 15 | \$4,805 | 53% | 0.37 |
| PPL | High Volume Low Speed Fans | Other Non-Mfg | Fans | ROB | end use | 6,392 | 47% | 0.35 | 15 | \$4,805 | 53% | 0.37 |
| PPL | Improved Controls - Fans | Other Non-Mfg | Fans | Existing | end use | 6,392 | 7.1% | 0.05 | 10 | \$25 | 69% | 3.27 |
| PPL | Improved Controls - Fans | Other Non-Mfg | Fans | New | end use | 6,392 | 7.1% | 0.05 | 10 | \$25 | 69% | 3.27 |
| PPL | Properly Sized Fans | Other Non-Mfg | Fans | Early | end use | 6,392 | 13% | 0.10 | 10 | \$131 | 32% | 1.93 |
| PPL | Properly Sized Fans | Other Non-Mfg | Fans | New | end use | 6,392 | 13% | 0.10 | 10 | \$131 | 32% | 1.93 |
| PPL | Properly Sized Fans | Other Non-Mfg | Fans | ROB | end use | 6,392 | 13% | 0.10 | 10 | \$131 | 32% | 1.93 |
| PPL | Synchronous Belts | Other Non-Mfg | Fans | Early | end use | 6,392 | 1.2% | 0.01 | 10 | \$9.4 | 32% | 2.22 |
| PPL | Synchronous Belts | Other Non-Mfg | Fans | New | end use | 6,392 | 1.2% | 0.01 | 10 | \$9.4 | 32% | 2.22 |
| PPL | Synchronous Belts | Other Non-Mfg | Fans | ROB | end use | 6,392 | 1.2% | 0.01 | 10 | \$9.4 | 32% | 2.22 |
| PPL | <65k BTU/hr 14 SEER Air Conditioner | Other Non-Mfg | HVAC | Early | unit (ton) | 21,827 | 9.2% | 0.52 | 15 | \$3,976 | 28% | 0.34 |
| PPL | <65k BTU/hr 14 SEER Air Conditioner | Other Non-Mfg | HVAC | New | unit (ton) | 21,827 | 4.1% | 0.23 | 15 | \$963 | 28% | 0.61 |
| PPL | <65k BTU/hr 14 SEER Air Conditioner | Other Non-Mfg | HVAC | ROB | unit (ton) | 21,827 | 4.1% | 0.23 | 15 | \$963 | 28% | 0.61 |
| PPL | <65k BTU/hr 15 SEER Air Conditioner | Other Non-Mfg | HVAC | Early | unit (ton) | 21,827 | 12% | 0.70 | 15 | \$4,687 | 28% | 0.38 |
| PPL | <65k BTU/hr 15 SEER Air Conditioner | Other Non-Mfg | HVAC | New | unit (ton) | 21,827 | 7.7% | 0.44 | 15 | \$2,029 | 28% | 0.54 |
| PPL | <65k BTU/hr 15 SEER Air Conditioner | Other Non-Mfg | HVAC | ROB | unit (ton) | 21,827 | 7.7% | 0.44 | 15 | \$2,029 | 28% | 0.54 |
| PPL | <65k BTU/hr 16 SEER Air Conditioner | Other Non-Mfg | HVAC | Early | unit (ton) | 21,827 | 15% | 0.86 | 15 | \$5,399 | 29% | 0.41 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|---------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | <65k BTU/hr 16 SEER Air Conditioner | Other Non-Mfg | HVAC | New | unit (ton) | 21,827 | 11% | 0.61 | 15 | \$3,095 | 29% | 0.50 |
| PPL | <65k BTU/hr 16 SEER Air Conditioner | Other Non-Mfg | HVAC | ROB | unit (ton) | 21,827 | 11% | 0.61 | 15 | \$3,095 | 29% | 0.50 |
| PPL | >760k min 10.2 EER Air Conditioner | Other Non-Mfg | HVAC | Early | unit (ton) | 21,827 | 2.1% | 0.12 | 15 | \$6,924 | 35% | 0.05 |
| PPL | >760k min 10.2 EER Air Conditioner | Other Non-Mfg | HVAC | New | unit (ton) | 21,827 | 2.8% | 0.16 | 15 | \$626 | 35% | 0.64 |
| PPL | >760k min 10.2 EER Air Conditioner | Other Non-Mfg | HVAC | ROB | unit (ton) | 21,827 | 2.8% | 0.16 | 15 | \$626 | 35% | 0.64 |
| PPL | 135-240k min 12 EER Air Conditioner | Other Non-Mfg | HVAC | Early | unit (ton) | 21,827 | 10% | 0.59 | 15 | \$7,498 | 35% | 0.21 |
| PPL | 135-240k min 12 EER Air Conditioner | Other Non-Mfg | HVAC | New | unit (ton) | 21,827 | 5.8% | 0.33 | 15 | \$885 | 35% | 0.90 |
| PPL | 135-240k min 12 EER Air Conditioner | Other Non-Mfg | HVAC | ROB | unit (ton) | 21,827 | 5.8% | 0.33 | 15 | \$885 | 35% | 0.90 |
| PPL | 240k-760k min 11 EER Air Conditioner | Other Non-Mfg | HVAC | Early | unit (ton) | 21,827 | 5.2% | 0.30 | 15 | \$6,928 | 35% | 0.11 |
| PPL | 240k-760k min 11 EER Air Conditioner | Other Non-Mfg | HVAC | New | unit (ton) | 21,827 | 5.3% | 0.30 | 15 | \$742 | 35% | 0.98 |
| PPL | 240k-760k min 11 EER Air Conditioner | Other Non-Mfg | HVAC | ROB | unit (ton) | 21,827 | 5.3% | 0.30 | 15 | \$742 | 35% | 0.98 |
| PPL | 65k-135k BTU/hr 12 EER Air Conditioner | Other Non-Mfg | HVAC | Early | unit (ton) | 21,827 | 9.7% | 0.55 | 15 | \$7,677 | 35% | 0.19 |
| PPL | 65k-135k BTU/hr 12 EER Air Conditioner | Other Non-Mfg | HVAC | New | unit (ton) | 21,827 | 3.8% | 0.22 | 15 | \$1,095 | 35% | 0.50 |
| PPL | 65k-135k BTU/hr 12 EER Air Conditioner | Other Non-Mfg | HVAC | ROB | unit (ton) | 21,827 | 3.8% | 0.22 | 15 | \$1,095 | 35% | 0.50 |
| PPL | Ceiling Insualtions (Going upto R 20) | Other Non-Mfg | HVAC | Existing | building | 21,827 | 5.9% | 0.32 | 15 | \$66,131 | 71% | 0.01 |
| PPL | Ceiling Insualtions (Going upto R 20) | Other Non-Mfg | HVAC | New | building | 21,827 | 3.7% | 0.20 | 15 | \$62,860 | 94% | 0.01 |
| PPL | Chiller Tuneup/Diagnostics | Other Non-Mfg | HVAC | Existing | building | 21,827 | 8.0% | 0.64 | 10 | \$55,733 | 59% | 0.02 |
| PPL | Chiller Tuneup/Diagnostics | Other Non-Mfg | HVAC | New | building | 21,827 | 8.0% | 0.64 | 10 | \$55,733 | 59% | 0.02 |
| PPL | Cooling Tower Optimization | Other Non-Mfg | HVAC | Existing | building | 21,827 | 20% | 1.56 | 10 | \$134 | 12% | 5.25 |
| PPL | Duct Insulation, Add R8 | Other Non-Mfg | HVAC | Existing | building | 21,827 | 1.5% | 0.07 | 15 | \$173 | 18% | 1.10 |
| PPL | Duct Insulation, Add R8 | Other Non-Mfg | HVAC | New | building | 21,827 | 1.5% | 0.07 | 15 | \$173 | 9% | 1.10 |
| PPL | Ductless Heat Pump | Other Non-Mfg | HVAC | Early | heat pump | 21,827 | 0.8% | 0.04 | 15 | \$1,734 | 83% | 0.07 |
| PPL | Ductless Heat Pump | Other Non-Mfg | HVAC | New | heat pump | 21,827 | 0.4% | 0.02 | 15 | \$503 | 83% | 0.13 |
| PPL | Ductless Heat Pump | Other Non-Mfg | HVAC | ROB | heat pump | 21,827 | 0.4% | 0.02 | 15 | \$503 | 83% | 0.13 |
| PPL | DX Coil Cleaning | Other Non-Mfg | HVAC | Existing | building | 21,827 | 13% | 1.00 | 1 | \$209 | 73% | 0.48 |
| PPL | DX Coil Cleaning | Other Non-Mfg | HVAC | New | building | 21,827 | 13% | 1.00 | 1 | \$209 | 73% | 0.48 |
| PPL | Efficient Unit Heating System | Other Non-Mfg | HVAC | Early | heater | 21,827 | 6.9% | 0.01 | 15 | \$1,176 | 83% | 0.62 |
| PPL | Efficient Unit Heating System | Other Non-Mfg | HVAC | New | heater | 21,827 | 4.0% | 0.01 | 15 | \$802 | 83% | 0.53 |
| PPL | Efficient Unit Heating System | Other Non-Mfg | HVAC | ROB | heater | 21,827 | 4.0% | 0.01 | 15 | \$802 | 83% | 0.53 |
| PPL | Ground Source Heat Pump (Closed Loop) | Other Non-Mfg | HVAC | Early | heat pump | 21,827 | 1.3% | 0.06 | 15 | \$3,600 | 19% | 0.05 |
| PPL | Ground Source Heat Pump (Closed Loop) | Other Non-Mfg | HVAC | New | heat pump | 21,827 | 1.0% | 0.05 | 15 | \$1,421 | 19% | 0.10 |
| PPL | Ground Source Heat Pump (Closed Loop) | Other Non-Mfg | HVAC | ROB | heat pump | 21,827 | 1.0% | 0.05 | 15 | \$1,421 | 19% | 0.10 |
| PPL | Ground Source Heat Pump (Open Loop) | Other Non-Mfg | HVAC | Early | heat pump | 21,827 | 1.3% | 0.06 | 15 | \$2,305 | 19% | 0.08 |
| PPL | Ground Source Heat Pump (Open Loop) | Other Non-Mfg | HVAC | New | heat pump | 21,827 | 1.0% | 0.05 | 15 | \$49 | 19% | 2.32 |
| PPL | Ground Source Heat Pump (Open Loop) | Other Non-Mfg | HVAC | ROB | heat pump | 21,827 | 1.0% | 0.05 | 15 | \$49 | 19% | 2.32 |
| PPL | HE Air Cooled Chiller, 100 Tons | Other Non-Mfg | HVAC | Early | unit (ton) | 21,827 | 1.5% | 0.07 | 15 | \$25,661 | 89% | 0.01 |
| PPL | HE Air Cooled Chiller, 100 Tons | Other Non-Mfg | HVAC | New | unit (ton) | 21,827 | 0.4% | 0.02 | 15 | \$3,738 | 89% | 0.02 |
| PPL | HE Air Cooled Chiller, 100 Tons | Other Non-Mfg | HVAC | ROB | unit (ton) | 21,827 | 0.4% | 0.02 | 15 | \$3,738 | 89% | 0.02 |
| PPL | HE Air Cooled Chiller, 150 Tons | Other Non-Mfg | HVAC | Early | unit (ton) | 21,827 | 1.5% | 0.07 | 15 | \$22,165 | 89% | 0.01 |
| PPL | HE Air Cooled Chiller, 150 Tons | Other Non-Mfg | HVAC | New | unit (ton) | 21,827 | 0.3% | 0.01 | 15 | \$1,836 | 89% | 0.02 |
| PPL | HE Air Cooled Chiller, 150 Tons | Other Non-Mfg | HVAC | ROB | unit (ton) | 21,827 | 0.3% | 0.01 | 15 | \$1,836 | 89% | 0.02 |
| PPL | HE Air Source Heat Pump (12 EER, 3.6 COP) | Other Non-Mfg | HVAC | Early | heat pump | 21,827 | 1.4% | 0.07 | 12 | \$940 | 81% | 0.17 |
| PPL | HE Air Source Heat Pump (12 EER, 3.6 COP) | Other Non-Mfg | HVAC | Early | heat pump | 21,827 | 1.1% | 0.06 | 12 | \$686 | 81% | 0.20 |
| PPL | HE Air Source Heat Pump (12 EER, 3.6 COP) | Other Non-Mfg | HVAC | New | heat pump | 21,827 | 1.0% | 0.05 | 12 | \$420 | 81% | 0.29 |
| PPL | HE Air Source Heat Pump (12 EER, 3.6 COP) | Other Non-Mfg | HVAC | New | heat pump | 21,827 | 0.8% | 0.04 | 12 | \$147 | 81% | 0.58 |
| PPL | HE Air Source Heat Pump (12 EER, 3.6 COP) | Other Non-Mfg | HVAC | ROB | heat pump | 21,827 | 1.0% | 0.05 | 12 | \$420 | 81% | 0.29 |
| PPL | HE Air Source Heat Pump (12 EER, 3.6 COP) | Other Non-Mfg | HVAC | ROB | heat pump | 21,827 | 0.8% | 0.04 | 12 | \$147 | 81% | 0.58 |
| PPL | HE Water Cooled Centrifugal Chiller, 175 Tons | Other Non-Mfg | HVAC | Early | unit (ton) | 21,827 | 1.6% | 0.08 | 15 | \$2,036 | 89% | 0.11 |
| PPL | HE Water Cooled Centrifugal Chiller, 175 Tons | Other Non-Mfg | HVAC | New | unit (ton) | 21,827 | 0.9% | 0.05 | 15 | \$677 | 89% | 0.20 |
| PPL | HE Water Cooled Centrifugal Chiller, 175 Tons | Other Non-Mfg | HVAC | ROB | unit (ton) | 21,827 | 0.9% | 0.05 | 15 | \$677 | 89% | 0.20 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---|---------------|---------|----------|------------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | HE Water Cooled Centrifugal Chiller, 300 Tons | Other Non-Mfg | HVAC | Early | unit (ton) | 21,827 | 1.4% | 0.07 | 15 | \$1,988 | 89% | 0.10 |
| PPL | HE Water Cooled Centrifugal Chiller, 300 Tons | Other Non-Mfg | HVAC | New | unit (ton) | 21,827 | 1.0% | 0.05 | 15 | \$388 | 89% | 0.36 |
| PPL | HE Water Cooled Centrifugal Chiller, 300 Tons | Other Non-Mfg | HVAC | ROB | unit (ton) | 21,827 | 1.4% | 0.07 | 15 | \$357 | 89% | 0.55 |
| PPL | HE Water Cooled Centrifugal Chiller, 500 Tons | Other Non-Mfg | HVAC | Early | unit (ton) | 21,827 | 1.4% | 0.07 | 15 | \$2,353 | 89% | 0.09 |
| PPL | HE Water Cooled Centrifugal Chiller, 500 Tons | Other Non-Mfg | HVAC | New | unit (ton) | 21,827 | 0.9% | 0.04 | 15 | \$991 | 89% | 0.13 |
| PPL | HE Water Cooled Centrifugal Chiller, 500 Tons | Other Non-Mfg | HVAC | ROB | unit (ton) | 21,827 | 1.4% | 0.07 | 15 | \$897 | 89% | 0.22 |
| PPL | HE Water Cooled Centrifugal Chiller, 600 Tons | Other Non-Mfg | HVAC | Early | unit (ton) | 21,827 | 1.4% | 0.07 | 15 | \$2,267 | 89% | 0.09 |
| PPL | HE Water Cooled Centrifugal Chiller, 600 Tons | Other Non-Mfg | HVAC | New | unit (ton) | 21,827 | 0.9% | 0.04 | 15 | \$861 | 89% | 0.15 |
| PPL | HE Water Cooled Centrifugal Chiller, 600 Tons | Other Non-Mfg | HVAC | ROB | unit (ton) | 21,827 | 1.4% | 0.07 | 15 | \$780 | 89% | 0.26 |
| PPL | HE Water Cooled Reciprocating Chiller, 100 Tons | Other Non-Mfg | HVAC | Early | unit (ton) | 21,827 | 1.8% | 0.09 | 15 | \$2,443 | 89% | 0.11 |
| PPL | HE Water Cooled Reciprocating Chiller, 100 Tons | Other Non-Mfg | HVAC | New | unit (ton) | 21,827 | 0.6% | 0.03 | 15 | \$1,513 | 89% | 0.05 |
| PPL | HE Water Cooled Reciprocating Chiller, 100 Tons | Other Non-Mfg | HVAC | ROB | unit (ton) | 21,827 | 1.8% | 0.09 | 15 | \$1,175 | 89% | 0.22 |
| PPL | HE Water Cooled Reciprocating Chiller, 175 Tons | Other Non-Mfg | HVAC | Early | unit (ton) | 21,827 | 2.2% | 0.11 | 15 | \$2,247 | 89% | 0.14 |
| PPL | HE Water Cooled Reciprocating Chiller, 175 Tons | Other Non-Mfg | HVAC | New | unit (ton) | 21,827 | 0.8% | 0.04 | 15 | \$902 | 89% | 0.13 |
| PPL | HE Water Cooled Reciprocating Chiller, 175 Tons | Other Non-Mfg | HVAC | ROB | unit (ton) | 21,827 | 0.8% | 0.04 | 15 | \$902 | 89% | 0.13 |
| PPL | HE Water Cooled Reciprocating Chiller, 300 Tons | Other Non-Mfg | HVAC | Early | unit (ton) | 21,827 | 2.4% | 0.12 | 15 | \$1,904 | 89% | 0.18 |
| PPL | HE Water Cooled Reciprocating Chiller, 300 Tons | Other Non-Mfg | HVAC | New | unit (ton) | 21,827 | 0.9% | 0.04 | 15 | \$479 | 89% | 0.27 |
| PPL | HE Water Cooled Reciprocating Chiller, 300 Tons | Other Non-Mfg | HVAC | ROB | unit (ton) | 21,827 | 2.4% | 0.12 | 15 | \$342 | 89% | 0.94 |
| PPL | HE Water Cooled Reciprocating Chiller, 50 Tons | Other Non-Mfg | HVAC | Early | unit (ton) | 21,827 | 1.8% | 0.09 | 15 | \$1,885 | 89% | 0.14 |
| PPL | HE Water Cooled Reciprocating Chiller, 50 Tons | Other Non-Mfg | HVAC | New | unit (ton) | 21,827 | 0.7% | 0.03 | 15 | \$528 | 89% | 0.19 |
| PPL | HE Water Cooled Reciprocating Chiller, 50 Tons | Other Non-Mfg | HVAC | ROB | unit (ton) | 21,827 | 1.8% | 0.09 | 15 | \$418 | 89% | 0.60 |
| PPL | Heat Reclaimer | Other Non-Mfg | HVAC | Existing | end use | 21,827 | 42% | 1.32 | 15 | \$1,249 | 15% | 2.92 |
| PPL | Heat Reclaimer | Other Non-Mfg | HVAC | New | end use | 21,827 | 42% | 1.32 | 15 | \$1,249 | 15% | 2.92 |
| PPL | Heat Recovery Ventilators | Other Non-Mfg | HVAC | Existing | end use | 21,827 | 4.1% | 0.13 | 10 | \$320 | 93% | 0.99 |
| PPL | Heat Recovery Ventilators | Other Non-Mfg | HVAC | New | end use | 21,827 | 4.1% | 0.13 | 10 | \$320 | 93% | 0.99 |
| PPL | HVAC Diagnostic/Air Conditioner Tune Up | Other Non-Mfg | HVAC | Existing | building | 21,827 | 2.9% | 0.13 | 5 | \$232 | 55% | 0.57 |
| PPL | HVAC Diagnostic/Air Conditioner Tune Up | Other Non-Mfg | HVAC | New | building | 21,827 | 0.6% | 0.05 | 5 | \$139 | 51% | 0.28 |
| PPL | Improved Controls - HVAC | Other Non-Mfg | HVAC | Existing | end use | 21,827 | 21% | 0.65 | 10 | \$229 | 76% | 3.49 |
| PPL | Improved Controls - HVAC | Other Non-Mfg | HVAC | New | end use | 21,827 | 21% | 0.65 | 10 | \$229 | 76% | 3.49 |
| PPL | Infrared Film for Greenhouses | Other Non-Mfg | HVAC | Existing | end use | 21,827 | 11% | 0.35 | 4 | \$507 | 5% | 0.68 |
| PPL | Infrared Film for Greenhouses | Other Non-Mfg | HVAC | New | end use | 21,827 | 11% | 0.35 | 4 | \$507 | 5% | 0.68 |
| PPL | Outside Air Economizer | Other Non-Mfg | HVAC | Existing | building | 21,827 | 1.1% | 0.06 | 10 | \$80,195 | 82% | 0.00 |
| PPL | Outside Air Economizer | Other Non-Mfg | HVAC | New | building | 21,827 | 1.1% | 0.06 | 10 | \$80,195 | 82% | 0.00 |
| PPL | Programmable Ventilation Controller | Other Non-Mfg | HVAC | Existing | end use | 21,827 | 0.1% | 0.00 | 10 | \$2.5 | 80% | 2.30 |
| PPL | Programmable Ventilation Controller | Other Non-Mfg | HVAC | New | end use | 21,827 | 0.1% | 0.00 | 10 | \$2.5 | 80% | 2.31 |
| PPL | Recommissioning | Other Non-Mfg | HVAC | Existing | end use | 21,827 | 5.0% | 0.16 | 10 | \$30 | 88% | 4.30 |
| PPL | Recommissioning | Other Non-Mfg | HVAC | New | end use | 21,827 | 5.0% | 0.16 | 10 | \$30 | 88% | 4.30 |
| PPL | Room AC (with louvered sides) | Other Non-Mfg | HVAC | Early | unit (ton) | 21,827 | 7.7% | 0.38 | 9 | \$1,711 | 78% | 0.39 |
| PPL | Room AC (with louvered sides) | Other Non-Mfg | HVAC | New | unit (ton) | 21,827 | 2.6% | 0.13 | 9 | \$94 | 78% | 1.77 |
| PPL | Room AC (with louvered sides) | Other Non-Mfg | HVAC | ROB | unit (ton) | 21,827 | 2.6% | 0.13 | 9 | \$94 | 78% | 1.77 |
| PPL | Variable Refrigerant Flow Heat Pump | Other Non-Mfg | HVAC | New | measure | 21,827 | 0.1% | 0.01 | 13 | \$161 | 43% | 0.09 |
| PPL | Variable Refrigerant Flow Heat Pump | Other Non-Mfg | HVAC | ROB | measure | 21,827 | 0.1% | 0.01 | 13 | \$161 | 43% | 0.09 |
| PPL | VFD on Cooling Tower Fan | Other Non-Mfg | HVAC | Early | motor | 21,827 | 21% | 1.37 | 15 | \$1,006 | 20% | 2.52 |
| PPL | VFD on Cooling Tower Fan | Other Non-Mfg | HVAC | New | motor | 21,827 | 22% | 1.37 | 15 | \$1,025 | 15% | 2.51 |
| PPL | VFD on Cooling Tower Fan | Other Non-Mfg | HVAC | ROB | motor | 21,827 | 22% | 1.37 | 15 | \$1,025 | 15% | 2.51 |
| PPL | Wall Insualtions (Going upto R 21) | Other Non-Mfg | HVAC | Existing | building | 21,827 | 19% | 1.04 | 15 | \$15,527 | 26% | 0.18 |
| PPL | Wall Insualtions (Going upto R 21) | Other Non-Mfg | HVAC | New | building | 21,827 | 0.6% | 0.03 | 15 | \$11,910 | 94% | 0.01 |
| PPL | Water Source Heat Pump (4 ton) | Other Non-Mfg | HVAC | Early | heat pump | 21,827 | 1.5% | 0.08 | 15 | \$3,727 | 6% | 0.06 |
| PPL | Water Source Heat Pump (4 ton) | Other Non-Mfg | HVAC | New | heat pump | 21,827 | 1.1% | 0.06 | 15 | \$1,817 | 6% | 0.09 |
| PPL | Water Source Heat Pump (4 ton) | Other Non-Mfg | HVAC | ROB | heat pump | 21,827 | 1.1% | 0.06 | 15 | \$1,817 | 6% | 0.09 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---------------------------------------|---------------|----------|----------|---------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Efficient Metal Halide (High Bay) | Other Non-Mfg | Lighting | Early | end use | 12,328 | 42% | 0.00 | 9 | \$1,926 | 53% | 0.76 |
| PPL | Efficient Metal Halide (High Bay) | Other Non-Mfg | Lighting | New | end use | 12,328 | 41% | 0.00 | 13 | \$51,453 | 61% | 0.05 |
| PPL | Efficient Metal Halide (High Bay) | Other Non-Mfg | Lighting | ROB | end use | 12,328 | 41% | 0.00 | 13 | \$39,324 | 61% | 0.06 |
| PPL | Induction (High Bay) | Other Non-Mfg | Lighting | Early | end use | 12,328 | 94% | 0.00 | 13 | \$5,732 | 95% | 0.85 |
| PPL | Induction (High Bay) | Other Non-Mfg | Lighting | New | end use | 12,328 | 94% | 0.00 | 13 | \$5,366 | 95% | 0.90 |
| PPL | Induction (High Bay) | Other Non-Mfg | Lighting | ROB | end use | 12,328 | 94% | 0.00 | 13 | \$4,079 | 95% | 1.14 |
| PPL | LED (High Bay) | Other Non-Mfg | Lighting | Early | end use | 12,328 | 69% | 0.00 | 14 | \$6,747 | 95% | 0.59 |
| PPL | LED (High Bay) | Other Non-Mfg | Lighting | New | end use | 12,328 | 55% | 0.00 | 14 | \$7,489 | 95% | 0.43 |
| PPL | LED (High Bay) | Other Non-Mfg | Lighting | ROB | end use | 12,328 | 59% | 0.00 | 14 | \$4,934 | 95% | 0.68 |
| PPL | Lighting Controls | Other Non-Mfg | Lighting | Existing | end use | 12,328 | 20% | 0.00 | 6 | \$46,215 | 16% | 0.01 |
| PPL | Lighting Controls | Other Non-Mfg | Lighting | New | end use | 12,328 | 12% | 0.00 | 10 | \$61,481 | 11% | 0.01 |
| PPL | Linear Fluorescent (High Bay) | Other Non-Mfg | Lighting | Early | end use | 12,328 | 17% | 0.00 | 14 | \$1,411 | 98% | 0.68 |
| PPL | Linear Fluorescent (High Bay) | Other Non-Mfg | Lighting | New | end use | 12,328 | 13% | 0.00 | 14 | \$447 | 91% | 1.43 |
| PPL | Linear Fluorescent (High Bay) | Other Non-Mfg | Lighting | ROB | end use | 12,328 | 13% | 0.00 | 14 | \$286 | 91% | 2.07 |
| PPL | Metal Halide (High Bay) | Other Non-Mfg | Lighting | Early | end use | 12,328 | 62% | 0.00 | 13 | \$8,475 | 38% | 0.41 |
| PPL | Metal Halide (High Bay) | Other Non-Mfg | Lighting | New | end use | 12,328 | 73% | 0.00 | 13 | \$2,026 | 38% | 1.61 |
| PPL | Metal Halide (High Bay) | Other Non-Mfg | Lighting | ROB | end use | 12,328 | 73% | 0.00 | 13 | \$1,540 | 38% | 1.97 |
| PPL | Screw Base CFL | Other Non-Mfg | Lighting | Early | end use | 12,328 | 80% | 0.00 | 7 | \$3,349 | 17% | 0.66 |
| PPL | Screw Base CFL | Other Non-Mfg | Lighting | New | end use | 12,328 | 73% | 0.00 | 9 | \$2,737 | 18% | 0.90 |
| PPL | Screw Base CFL | Other Non-Mfg | Lighting | ROB | end use | 12,328 | 73% | 0.00 | 9 | \$2,291 | 17% | 1.03 |
| PPL | Screw Base LED | Other Non-Mfg | Lighting | Early | end use | 12,328 | 76% | 0.00 | 9 | \$2,055 | 21% | 1.21 |
| PPL | Screw Base LED | Other Non-Mfg | Lighting | New | end use | 12,328 | 77% | 0.00 | 9 | \$1,145 | 20% | 1.84 |
| PPL | Screw Base LED | Other Non-Mfg | Lighting | ROB | end use | 12,328 | 77% | 0.00 | 9 | \$909 | 21% | 2.12 |
| PPL | T8 High Performance Linear Florescent | Other Non-Mfg | Lighting | Early | end use | 12,328 | 36% | 0.00 | 14 | \$1,180 | 71% | 1.52 |
| PPL | T8 High Performance Linear Florescent | Other Non-Mfg | Lighting | New | end use | 12,328 | 26% | 0.00 | 14 | \$422 | 76% | 2.56 |
| PPL | T8 High Performance Linear Florescent | Other Non-Mfg | Lighting | ROB | end use | 12,328 | 26% | 0.00 | 14 | \$321 | 76% | 3.03 |
| PPL | Automatic Milker Takeoff | Other Non-Mfg | Motors | Early | end use | 2,018 | 3.0% | 0.01 | 15 | \$37 | 11% | 0.91 |
| PPL | Automatic Milker Takeoff | Other Non-Mfg | Motors | New | end use | 2,018 | 3.0% | 0.01 | 15 | \$37 | 11% | 0.91 |
| PPL | Automatic Milker Takeoff | Other Non-Mfg | Motors | ROB | end use | 2,018 | 3.0% | 0.01 | 15 | \$37 | 11% | 0.91 |
| PPL | Enhanced (Ultra-PE) Motor 1-15 HP | Other Non-Mfg | Motors | Early | end use | 2,018 | 0.9% | 0.00 | 15 | \$31 | 68% | 0.35 |
| PPL | Enhanced (Ultra-PE) Motor 1-15 HP | Other Non-Mfg | Motors | New | end use | 2,018 | 0.9% | 0.00 | 15 | \$31 | 68% | 0.35 |
| PPL | Enhanced (Ultra-PE) Motor 1-15 HP | Other Non-Mfg | Motors | ROB | end use | 2,018 | 0.9% | 0.00 | 15 | \$31 | 68% | 0.36 |
| PPL | Enhanced (Ultra-PE) Motor 125-200 HP | Other Non-Mfg | Motors | Early | end use | 2,018 | 0.8% | 0.00 | 15 | \$19 | 61% | 0.48 |
| PPL | Enhanced (Ultra-PE) Motor 125-200 HP | Other Non-Mfg | Motors | New | end use | 2,018 | 0.8% | 0.00 | 15 | \$19 | 61% | 0.48 |
| PPL | Enhanced (Ultra-PE) Motor 125-200 HP | Other Non-Mfg | Motors | ROB | end use | 2,018 | 0.8% | 0.00 | 15 | \$19 | 61% | 0.48 |
| PPL | Enhanced (Ultra-PE) Motor 20-40 HP | Other Non-Mfg | Motors | Early | end use | 2,018 | 0.5% | 0.00 | 15 | \$7.2 | 68% | 0.72 |
| PPL | Enhanced (Ultra-PE) Motor 20-40 HP | Other Non-Mfg | Motors | New | end use | 2,018 | 0.4% | 0.00 | 15 | \$7.2 | 68% | 0.71 |
| PPL | Enhanced (Ultra-PE) Motor 20-40 HP | Other Non-Mfg | Motors | ROB | end use | 2,018 | 0.5% | 0.00 | 15 | \$7.2 | 68% | 0.74 |
| PPL | Enhanced (Ultra-PE) Motor 250-500 HP | Other Non-Mfg | Motors | Early | end use | 2,018 | 0.4% | 0.00 | 15 | \$2.4 | 61% | 1.71 |
| PPL | Enhanced (Ultra-PE) Motor 250-500 HP | Other Non-Mfg | Motors | New | end use | 2,018 | 0.4% | 0.00 | 15 | \$2.4 | 61% | 1.71 |
| PPL | Enhanced (Ultra-PE) Motor 250-500 HP | Other Non-Mfg | Motors | ROB | end use | 2,018 | 0.4% | 0.00 | 15 | \$2.4 | 61% | 1.70 |
| PPL | Enhanced (Ultra-PE) Motor 50-100 HP | Other Non-Mfg | Motors | Early | end use | 2,018 | 0.9% | 0.00 | 15 | \$3.5 | 39% | 2.37 |
| PPL | Enhanced (Ultra-PE) Motor 50-100 HP | Other Non-Mfg | Motors | New | end use | 2,018 | 0.9% | 0.00 | 15 | \$3.5 | 39% | 2.35 |
| PPL | Enhanced (Ultra-PE) Motor 50-100 HP | Other Non-Mfg | Motors | ROB | end use | 2,018 | 0.9% | 0.00 | 15 | \$3.5 | 39% | 2.36 |
| PPL | Facility Energy Management | Other Non-Mfg | Motors | Existing | end use | 2,018 | 1.9% | 0.01 | 2 | \$0.8 | 64% | 1.10 |
| PPL | Facility Energy Management | Other Non-Mfg | Motors | New | end use | 2,018 | 1.8% | 0.01 | 2 | \$0.8 | 64% | 1.10 |
| PPL | HE Motors | Other Non-Mfg | Motors | Early | end use | 2,018 | 2.0% | 0.01 | 15 | \$12 | 32% | 1.71 |
| PPL | HE Motors | Other Non-Mfg | Motors | New | end use | 2,018 | 2.0% | 0.01 | 15 | \$12 | 32% | 1.71 |
| PPL | HE Motors | Other Non-Mfg | Motors | ROB | end use | 2,018 | 2.0% | 0.01 | 15 | \$12 | 32% | 1.71 |
| PPL | High-Efficiency Ventilation System | Other Non-Mfg | Motors | Early | end use | 2,018 | 5.7% | 0.02 | 10 | \$126 | 61% | 0.37 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|--|---------------|---------|----------|---------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | High-Efficiency Ventilation System | Other Non-Mfg | Motors | New | end use | 2,018 | 5.7% | 0.02 | 10 | \$126 | 61% | 0.37 |
| PPL | High-Efficiency Ventilation System | Other Non-Mfg | Motors | ROB | end use | 2,018 | 5.7% | 0.02 | 10 | \$126 | 61% | 0.37 |
| PPL | Improved Controls - Motors | Other Non-Mfg | Motors | Existing | end use | 2,018 | 4.0% | 0.01 | 10 | \$8.8 | 61% | 2.33 |
| PPL | Improved Controls - Motors | Other Non-Mfg | Motors | New | end use | 2,018 | 4.0% | 0.01 | 10 | \$8.8 | 61% | 2.33 |
| PPL | Motor Management Plan | Other Non-Mfg | Motors | Existing | end use | 2,018 | 2.9% | 0.01 | 10 | \$4.1 | 61% | 2.98 |
| PPL | Motor Management Plan | Other Non-Mfg | Motors | New | end use | 2,018 | 2.9% | 0.01 | 10 | \$4.1 | 61% | 2.98 |
| PPL | Motors Other | Other Non-Mfg | Motors | Existing | end use | 2,018 | 1.4% | 0.00 | 15 | \$0.5 | 69% | 6.81 |
| PPL | Motors Other | Other Non-Mfg | Motors | New | end use | 2,018 | 1.4% | 0.00 | 15 | \$0.5 | 69% | 6.81 |
| PPL | Motors: Rewind 101-200 HP | Other Non-Mfg | Motors | Existing | end use | 2,018 | 0.6% | 0.00 | 10 | \$2.5 | 22% | 1.42 |
| PPL | Motors: Rewind 101-200 HP | Other Non-Mfg | Motors | New | end use | 2,018 | 0.6% | 0.00 | 10 | \$2.5 | 22% | 1.41 |
| PPL | Motors: Rewind 201-500 HP | Other Non-Mfg | Motors | Existing | end use | 2,018 | 0.5% | 0.00 | 8 | \$1.6 | 22% | 1.62 |
| PPL | Motors: Rewind 201-500 HP | Other Non-Mfg | Motors | New | end use | 2,018 | 0.6% | 0.00 | 8 | \$1.6 | 22% | 1.64 |
| PPL | Motors: Rewind 20-50 HP | Other Non-Mfg | Motors | Existing | end use | 2,018 | 1.0% | 0.00 | 11 | \$7.5 | 35% | 1.09 |
| PPL | Motors: Rewind 20-50 HP | Other Non-Mfg | Motors | New | end use | 2,018 | 1.0% | 0.00 | 11 | \$7.5 | 35% | 1.09 |
| PPL | Motors: Rewind 500+ HP | Other Non-Mfg | Motors | Existing | end use | 2,018 | 0.6% | 0.00 | 8 | \$1.1 | 10% | 2.05 |
| PPL | Motors: Rewind 500+ HP | Other Non-Mfg | Motors | New | end use | 2,018 | 0.6% | 0.00 | 8 | \$1.1 | 10% | 2.03 |
| PPL | Motors: Rewind 51-100 HP | Other Non-Mfg | Motors | Existing | end use | 2,018 | 0.6% | 0.00 | 9 | \$3.7 | 35% | 1.03 |
| PPL | Motors: Rewind 51-100 HP | Other Non-Mfg | Motors | New | end use | 2,018 | 0.6% | 0.00 | 9 | \$3.7 | 35% | 1.02 |
| PPL | SIS | Other Non-Mfg | Motors | Existing | end use | 2,018 | 7.5% | 0.02 | 7 | \$127 | 11% | 0.34 |
| PPL | SIS | Other Non-Mfg | Motors | New | end use | 2,018 | 7.5% | 0.02 | 7 | \$127 | 11% | 0.34 |
| PPL | Switch from Belt drive to Direct Drive | Other Non-Mfg | Motors | Early | end use | 2,018 | 7.5% | 0.02 | 12 | \$32 | 25% | 1.79 |
| PPL | Switch from Belt drive to Direct Drive | Other Non-Mfg | Motors | New | end use | 2,018 | 7.5% | 0.02 | 12 | \$32 | 25% | 1.79 |
| PPL | Switch from Belt drive to Direct Drive | Other Non-Mfg | Motors | ROB | end use | 2,018 | 7.5% | 0.02 | 12 | \$32 | 25% | 1.79 |
| PPL | Synchronous Belts | Other Non-Mfg | Motors | Early | end use | 2,018 | 1.2% | 0.00 | 10 | \$3.0 | 25% | 2.20 |
| PPL | Synchronous Belts | Other Non-Mfg | Motors | New | end use | 2,018 | 1.2% | 0.00 | 10 | \$3.0 | 25% | 2.20 |
| PPL | Synchronous Belts | Other Non-Mfg | Motors | ROB | end use | 2,018 | 1.2% | 0.00 | 10 | \$3.0 | 25% | 2.20 |
| PPL | Variable Speed Drives for Dairy Vacuum Pumps | Other Non-Mfg | Motors | Early | end use | 2,018 | 37% | 0.11 | 15 | \$101 | 7% | 3.00 |
| PPL | Variable Speed Drives for Dairy Vacuum Pumps | Other Non-Mfg | Motors | New | end use | 2,018 | 37% | 0.11 | 15 | \$101 | 7% | 3.00 |
| PPL | Variable Speed Drives for Dairy Vacuum Pumps | Other Non-Mfg | Motors | ROB | end use | 2,018 | 37% | 0.11 | 15 | \$101 | 7% | 3.00 |
| PPL | VFDs on Small Milking Machines | Other Non-Mfg | Motors | Early | end use | 2,018 | 3.2% | 0.01 | 15 | \$43 | 2% | 0.84 |
| PPL | VFDs on Small Milking Machines | Other Non-Mfg | Motors | New | end use | 2,018 | 3.2% | 0.01 | 15 | \$43 | 2% | 0.84 |
| PPL | VFDs on Small Milking Machines | Other Non-Mfg | Motors | ROB | end use | 2,018 | 3.2% | 0.01 | 15 | \$43 | 2% | 0.85 |
| PPL | Wood: Replace Pneumatic Conveyor | Other Non-Mfg | Motors | Early | end use | 2,018 | 29% | 0.08 | 10 | \$8.5 | 2% | 5.10 |
| PPL | Wood: Replace Pneumatic Conveyor | Other Non-Mfg | Motors | New | end use | 2,018 | 29% | 0.08 | 10 | \$8.5 | 2% | 5.10 |
| PPL | Wood: Replace Pneumatic Conveyor | Other Non-Mfg | Motors | ROB | end use | 2,018 | 29% | 0.08 | 10 | \$8.5 | 2% | 5.10 |
| PPL | Bldg Improvements | Other Non-Mfg | Other | Existing | end use | 3,878 | 16% | 0.07 | 15 | \$85 | 72% | 2.86 |
| PPL | Bldg Improvements | Other Non-Mfg | Other | New | end use | 3,878 | 16% | 0.07 | 15 | \$85 | 72% | 2.86 |
| PPL | Block Heater Timer | Other Non-Mfg | Other | Existing | end use | 3,878 | 2.5% | 0.01 | 10 | \$3.8 | 40% | 3.73 |
| PPL | Block Heater Timer | Other Non-Mfg | Other | New | end use | 3,878 | 2.5% | 0.01 | 10 | \$3.8 | 40% | 3.73 |
| PPL | Energy Project Management | Other Non-Mfg | Other | Existing | end use | 3,878 | 29% | 0.13 | 11 | \$138 | 63% | 2.30 |
| PPL | Energy Project Management | Other Non-Mfg | Other | New | end use | 3,878 | 29% | 0.13 | 11 | \$138 | 63% | 2.30 |
| PPL | Facility Energy Management | Other Non-Mfg | Other | Existing | end use | 3,878 | 1.9% | 0.01 | 2 | \$1.5 | 76% | 1.07 |
| PPL | Facility Energy Management | Other Non-Mfg | Other | New | end use | 3,878 | 1.9% | 0.01 | 2 | \$1.5 | 76% | 1.07 |
| PPL | Grain bin aeration control systems | Other Non-Mfg | Other | Existing | end use | 3,878 | 2.3% | 0.01 | 15 | \$12 | 24% | 2.88 |
| PPL | Grain bin aeration control systems | Other Non-Mfg | Other | New | end use | 3,878 | 2.3% | 0.01 | 15 | \$12 | 24% | 2.88 |
| PPL | Greenhouse Heat Curtain | Other Non-Mfg | Other | Existing | end use | 3,878 | 17% | 0.08 | 5 | \$30 | 5% | 1.96 |
| PPL | Greenhouse Heat Curtain | Other Non-Mfg | Other | New | end use | 3,878 | 17% | 0.08 | 5 | \$30 | 5% | 1.96 |
| PPL | HE Stock tank | Other Non-Mfg | Other | Early | end use | 3,878 | 3.8% | 0.02 | 10 | \$48 | 14% | 1.02 |
| PPL | HE Stock tank | Other Non-Mfg | Other | New | end use | 3,878 | 3.8% | 0.02 | 10 | \$48 | 14% | 1.02 |
| PPL | HE Stock tank | Other Non-Mfg | Other | ROB | end use | 3,878 | 3.8% | 0.02 | 10 | \$48 | 14% | 1.02 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|-------------------------------------|---------------|------------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | Integrated Plant Energy Management | Other Non-Mfg | Other | Existing | end use | 3,878 | 50% | 0.23 | 11 | \$382 | 48% | 1.67 |
| PPL | Integrated Plant Energy Management | Other Non-Mfg | Other | New | end use | 3,878 | 50% | 0.23 | 11 | \$382 | 48% | 1.67 |
| PPL | Livestock Waterers | Other Non-Mfg | Other | Early | end use | 3,878 | 11% | 0.05 | 10 | \$114 | 14% | 1.23 |
| PPL | Livestock Waterers | Other Non-Mfg | Other | New | end use | 3,878 | 11% | 0.05 | 10 | \$114 | 14% | 1.23 |
| PPL | Livestock Waterers | Other Non-Mfg | Other | ROB | end use | 3,878 | 11% | 0.05 | 10 | \$114 | 14% | 1.23 |
| PPL | Plant Energy Management | Other Non-Mfg | Other | Existing | end use | 3,878 | 12% | 0.06 | 10 | \$9.7 | 55% | 4.47 |
| PPL | Plant Energy Management | Other Non-Mfg | Other | New | end use | 3,878 | 12% | 0.06 | 10 | \$9.7 | 55% | 4.47 |
| PPL | Transformers | Other Non-Mfg | Other | Early | end use | 3,878 | 1.6% | 0.01 | 15 | \$12 | 34% | 2.18 |
| PPL | Transformers | Other Non-Mfg | Other | New | end use | 3,878 | 1.6% | 0.01 | 15 | \$12 | 34% | 2.18 |
| PPL | Transformers | Other Non-Mfg | Other | ROB | end use | 3,878 | 1.6% | 0.01 | 15 | \$12 | 34% | 2.18 |
| PPL | Air Compressor Demand Reduction | Other Non-Mfg | Process Air Compressor | Existing | end use | 167 | 26% | 0.01 | 10 | \$2.5 | 40% | 3.22 |
| PPL | Air Compressor Demand Reduction | Other Non-Mfg | Process Air Compressor | New | end use | 167 | 26% | 0.01 | 10 | \$2.5 | 40% | 3.22 |
| PPL | Air Compressor Equipment | Other Non-Mfg | Process Air Compressor | Early | end use | 167 | 39% | 0.01 | 10 | \$3.0 | 56% | 3.53 |
| PPL | Air Compressor Equipment | Other Non-Mfg | Process Air Compressor | New | end use | 167 | 39% | 0.01 | 10 | \$3.0 | 56% | 3.53 |
| PPL | Air Compressor Equipment | Other Non-Mfg | Process Air Compressor | ROB | end use | 167 | 39% | 0.01 | 10 | \$3.0 | 56% | 3.53 |
| PPL | Air Compressor Optimization | Other Non-Mfg | Process Air Compressor | Existing | end use | 167 | 39% | 0.01 | 10 | \$7.3 | 42% | 2.28 |
| PPL | Air Compressor Optimization | Other Non-Mfg | Process Air Compressor | New | end use | 167 | 39% | 0.01 | 10 | \$7.3 | 42% | 2.28 |
| PPL | Facility Energy Management | Other Non-Mfg | Process Air Compressor | Existing | end use | 167 | 1.9% | 0.00 | 2 | \$0.1 | 50% | 1.08 |
| PPL | Facility Energy Management | Other Non-Mfg | Process Air Compressor | New | end use | 167 | 1.9% | 0.00 | 2 | \$0.1 | 50% | 1.08 |
| PPL | HE Compressor motors | Other Non-Mfg | Process Air Compressor | Early | end use | 167 | 1.1% | 0.00 | 15 | \$0.6 | 56% | 1.45 |
| PPL | HE Compressor motors | Other Non-Mfg | Process Air Compressor | New | end use | 167 | 1.1% | 0.00 | 15 | \$0.6 | 56% | 1.45 |
| PPL | HE Compressor motors | Other Non-Mfg | Process Air Compressor | ROB | end use | 167 | 1.1% | 0.00 | 15 | \$0.6 | 56% | 1.44 |
| PPL | Improved Controls - Air Compressor | Other Non-Mfg | Process Air Compressor | Existing | end use | 167 | 41% | 0.01 | 10 | \$3.0 | 19% | 3.62 |
| PPL | Improved Controls - Air Compressor | Other Non-Mfg | Process Air Compressor | New | end use | 167 | 41% | 0.01 | 10 | \$3.0 | 19% | 3.62 |
| PPL | Low Pressure-drop Filters | Other Non-Mfg | Process Air Compressor | Existing | end use | 167 | 1.8% | 0.00 | 10 | \$1.9 | 46% | 0.60 |
| PPL | Low Pressure-drop Filters | Other Non-Mfg | Process Air Compressor | New | end use | 167 | 1.9% | 0.00 | 10 | \$1.9 | 46% | 0.61 |
| PPL | Outside Air Intake | Other Non-Mfg | Process Air Compressor | Existing | end use | 167 | 1.4% | 0.00 | 10 | \$1.1 | 37% | 0.78 |
| PPL | Outside Air Intake | Other Non-Mfg | Process Air Compressor | New | end use | 167 | 1.4% | 0.00 | 10 | \$1.1 | 37% | 0.78 |
| PPL | Receiver Capacity Addition | Other Non-Mfg | Process Air Compressor | Existing | end use | 167 | 5.9% | 0.00 | 10 | \$3.1 | 28% | 1.08 |
| PPL | Receiver Capacity Addition | Other Non-Mfg | Process Air Compressor | New | end use | 167 | 5.9% | 0.00 | 10 | \$3.1 | 28% | 1.08 |
| PPL | Refrigerated Cycling Dryers | Other Non-Mfg | Process Air Compressor | Early | end use | 167 | 1.7% | 0.00 | 10 | \$0.4 | 16% | 2.00 |
| PPL | Refrigerated Cycling Dryers | Other Non-Mfg | Process Air Compressor | New | end use | 167 | 1.7% | 0.00 | 10 | \$0.4 | 16% | 1.99 |
| PPL | Refrigerated Cycling Dryers | Other Non-Mfg | Process Air Compressor | ROB | end use | 167 | 1.7% | 0.00 | 10 | \$0.4 | 16% | 1.99 |
| PPL | VFD Controlled Compressor | Other Non-Mfg | Process Air Compressor | Early | end use | 167 | 24% | 0.01 | 10 | \$16 | 22% | 0.85 |
| PPL | VFD Controlled Compressor | Other Non-Mfg | Process Air Compressor | New | end use | 167 | 24% | 0.01 | 10 | \$16 | 22% | 0.85 |
| PPL | VFD Controlled Compressor | Other Non-Mfg | Process Air Compressor | ROB | end use | 167 | 24% | 0.01 | 10 | \$16 | 22% | 0.85 |
| PPL | Zero Loss Condensate Drain | Other Non-Mfg | Process Air Compressor | Early | end use | 167 | 1.8% | 0.00 | 10 | \$1.0 | 6% | 1.09 |
| PPL | Zero Loss Condensate Drain | Other Non-Mfg | Process Air Compressor | New | end use | 167 | 1.9% | 0.00 | 10 | \$1.0 | 6% | 1.09 |
| PPL | Zero Loss Condensate Drain | Other Non-Mfg | Process Air Compressor | ROB | end use | 167 | 1.9% | 0.00 | 10 | \$1.0 | 6% | 1.09 |
| PPL | Cooling Tower Optimization | Other Non-Mfg | Process Cooling | Existing | building | 2,219 | 20% | 0.16 | 10 | \$14 | 15% | 5.25 |
| PPL | Equipment: Chillers | Other Non-Mfg | Process Cooling | Early | end use | 2,219 | 18% | 0.08 | 15 | \$104 | 39% | 1.94 |
| PPL | Equipment: Chillers | Other Non-Mfg | Process Cooling | New | end use | 2,219 | 18% | 0.08 | 15 | \$104 | 39% | 1.94 |
| PPL | Equipment: Chillers | Other Non-Mfg | Process Cooling | ROB | end use | 2,219 | 18% | 0.08 | 15 | \$104 | 39% | 1.94 |
| PPL | Facility Energy Management | Other Non-Mfg | Process Cooling | Existing | end use | 2,219 | 1.9% | 0.01 | 2 | \$0.9 | 50% | 1.19 |
| PPL | Facility Energy Management | Other Non-Mfg | Process Cooling | New | end use | 2,219 | 1.9% | 0.01 | 2 | \$0.9 | 50% | 1.19 |
| PPL | Improved Controls - Process Cooling | Other Non-Mfg | Process Cooling | Existing | end use | 2,219 | 6.0% | 0.03 | 10 | \$117 | 47% | 0.48 |
| PPL | Improved Controls - Process Cooling | Other Non-Mfg | Process Cooling | New | end use | 2,219 | 6.0% | 0.03 | 10 | \$117 | 47% | 0.48 |
| PPL | Milk Precooler - Dairy Plate Cooler | Other Non-Mfg | Process Cooling | Early | end use | 2,219 | 3.2% | 0.01 | 15 | \$38 | 8% | 1.09 |
| PPL | Milk Precooler - Dairy Plate Cooler | Other Non-Mfg | Process Cooling | New | end use | 2,219 | 3.2% | 0.01 | 15 | \$38 | 8% | 1.09 |
| PPL | Milk Precooler - Dairy Plate Cooler | Other Non-Mfg | Process Cooling | ROB | end use | 2,219 | 3.2% | 0.01 | 15 | \$38 | 8% | 1.09 |

| EDC | Industrial Measure Name | Segment | End Use | Vintage | Unit | Baseline Energy (kWh) | Energy Savings % | Dmd Savings (kW) | EUL (years) | Incr. Cost (\$) | Applicability | TRC Ratio |
|-----|---------------------------------------|---------------|-----------------------|----------|----------|-----------------------|------------------|------------------|-------------|-----------------|---------------|-----------|
| PPL | VFD on Cooling Tower Fan | Other Non-Mfg | Process Cooling | Early | motor | 2,219 | 21% | 0.14 | 15 | \$102 | 20% | 2.46 |
| PPL | VFD on Cooling Tower Fan | Other Non-Mfg | Process Cooling | New | motor | 2,219 | 22% | 0.14 | 15 | \$104 | 20% | 2.44 |
| PPL | VFD on Cooling Tower Fan | Other Non-Mfg | Process Cooling | ROB | motor | 2,219 | 22% | 0.14 | 15 | \$104 | 20% | 2.44 |
| PPL | Crate Heating Pads | Other Non-Mfg | Process Heating | Early | end use | 8,988 | 18% | 0.22 | 15 | \$228 | 9% | 2.77 |
| PPL | Crate Heating Pads | Other Non-Mfg | Process Heating | New | end use | 8,988 | 18% | 0.22 | 15 | \$228 | 9% | 2.77 |
| PPL | Crate Heating Pads | Other Non-Mfg | Process Heating | ROB | end use | 8,988 | 18% | 0.22 | 15 | \$228 | 9% | 2.77 |
| PPL | Grain dryers | Other Non-Mfg | Process Heating | Early | end use | 8,988 | 24% | 0.29 | 15 | \$13,871 | 9% | 0.09 |
| PPL | Grain dryers | Other Non-Mfg | Process Heating | New | end use | 8,988 | 24% | 0.29 | 15 | \$13,871 | 9% | 0.09 |
| PPL | Grain dryers | Other Non-Mfg | Process Heating | ROB | end use | 8,988 | 24% | 0.29 | 15 | \$13,871 | 9% | 0.09 |
| PPL | Heat Lamp Setback (Microzone) | Other Non-Mfg | Process Heating | Existing | end use | 8,988 | 0.5% | 0.01 | 15 | \$6.9 | 4% | 2.49 |
| PPL | Heat Lamp Setback (Microzone) | Other Non-Mfg | Process Heating | New | end use | 8,988 | 0.5% | 0.01 | 15 | \$6.9 | 4% | 2.49 |
| PPL | Heat Lamp/Heating Pad Controller | Other Non-Mfg | Process Heating | Existing | end use | 8,988 | 1.8% | 0.02 | 15 | \$16 | 4% | 3.42 |
| PPL | Heat Lamp/Heating Pad Controller | Other Non-Mfg | Process Heating | New | end use | 8,988 | 1.8% | 0.02 | 15 | \$16 | 4% | 3.42 |
| PPL | Heat Lamps | Other Non-Mfg | Process Heating | Early | end use | 8,988 | 3.4% | 0.04 | 10 | \$5.7 | 9% | 4.68 |
| PPL | Heat Lamps | Other Non-Mfg | Process Heating | New | end use | 8,988 | 3.4% | 0.04 | 10 | \$5.7 | 9% | 4.68 |
| PPL | Heat Lamps | Other Non-Mfg | Process Heating | ROB | end use | 8,988 | 3.4% | 0.04 | 10 | \$5.7 | 9% | 4.68 |
| PPL | Improved Controls - Process Heating | Other Non-Mfg | Process Heating | Existing | end use | 8,988 | 17% | 0.21 | 10 | \$103 | 23% | 3.04 |
| PPL | Improved Controls - Process Heating | Other Non-Mfg | Process Heating | New | end use | 8,988 | 17% | 0.21 | 10 | \$103 | 23% | 3.04 |
| PPL | Process Heat O&M | Other Non-Mfg | Process Heating | Existing | end use | 8,988 | 16% | 0.20 | 2 | \$62 | 23% | 0.88 |
| PPL | Process Heat O&M | Other Non-Mfg | Process Heating | New | end use | 8,988 | 16% | 0.20 | 2 | \$62 | 23% | 0.88 |
| PPL | Facility Energy Management | Other Non-Mfg | Process Other | Existing | end use | 970 | 1.9% | 0.00 | 2 | \$0.4 | 73% | 1.10 |
| PPL | Facility Energy Management | Other Non-Mfg | Process Other | New | end use | 970 | 1.9% | 0.00 | 2 | \$0.4 | 73% | 1.10 |
| PPL | Adjustable speed drive on compressors | Other Non-Mfg | Process Refrigeration | Early | end use | 1,140 | 12% | 0.02 | 10 | \$21 | 30% | 1.97 |
| PPL | Adjustable speed drive on compressors | Other Non-Mfg | Process Refrigeration | New | end use | 1,140 | 12% | 0.02 | 10 | \$21 | 30% | 1.97 |
| PPL | Adjustable speed drive on compressors | Other Non-Mfg | Process Refrigeration | ROB | end use | 1,140 | 12% | 0.02 | 10 | \$21 | 30% | 1.97 |
| PPL | Cooling Tower Optimization | Other Non-Mfg | Process Refrigeration | Existing | building | 1,140 | 20% | 0.08 | 10 | \$7.0 | 15% | 5.25 |
| PPL | Optimization of operating parameters | Other Non-Mfg | Process Refrigeration | Existing | end use | 1,140 | 13% | 0.02 | 3 | \$9.2 | 27% | 1.11 |
| PPL | Optimization of operating parameters | Other Non-Mfg | Process Refrigeration | New | end use | 1,140 | 13% | 0.02 | 3 | \$9.2 | 27% | 1.11 |
| PPL | Synchronous Belts | Other Non-Mfg | Process Refrigeration | Early | end use | 1,140 | 1.2% | 0.00 | 10 | \$1.7 | 30% | 2.29 |
| PPL | Synchronous Belts | Other Non-Mfg | Process Refrigeration | New | end use | 1,140 | 1.2% | 0.00 | 10 | \$1.7 | 30% | 2.29 |
| PPL | Synchronous Belts | Other Non-Mfg | Process Refrigeration | ROB | end use | 1,140 | 1.2% | 0.00 | 10 | \$1.7 | 30% | 2.29 |
| PPL | VFD on Cooling Tower Fan | Other Non-Mfg | Process Refrigeration | Early | motor | 1,140 | 21% | 0.07 | 15 | \$53 | 20% | 2.46 |
| PPL | VFD on Cooling Tower Fan | Other Non-Mfg | Process Refrigeration | New | motor | 1,140 | 22% | 0.07 | 15 | \$54 | 20% | 2.44 |
| PPL | VFD on Cooling Tower Fan | Other Non-Mfg | Process Refrigeration | ROB | motor | 1,140 | 22% | 0.07 | 15 | \$54 | 20% | 2.44 |
| PPL | Facility Energy Management | Other Non-Mfg | Pumps | Existing | end use | 11,312 | 1.9% | 0.03 | 2 | \$4.4 | 34% | 1.08 |
| PPL | Facility Energy Management | Other Non-Mfg | Pumps | New | end use | 11,312 | 1.9% | 0.03 | 2 | \$4.4 | 34% | 1.08 |
| PPL | HE Motors | Other Non-Mfg | Pumps | Early | end use | 11,312 | 2.0% | 0.03 | 15 | \$67 | 36% | 1.69 |
| PPL | HE Motors | Other Non-Mfg | Pumps | New | end use | 11,312 | 2.0% | 0.03 | 15 | \$67 | 36% | 1.69 |
| PPL | HE Motors | Other Non-Mfg | Pumps | ROB | end use | 11,312 | 2.0% | 0.03 | 15 | \$67 | 36% | 1.69 |
| PPL | Motor rewinds | Other Non-Mfg | Pumps | Existing | end use | 11,312 | 0.6% | 0.01 | 9 | \$16 | 6% | 1.23 |
| PPL | Motor rewinds | Other Non-Mfg | Pumps | New | end use | 11,312 | 0.6% | 0.01 | 9 | \$16 | 6% | 1.22 |
| PPL | Synchronous Belts | Other Non-Mfg | Pumps | Early | end use | 11,312 | 1.2% | 0.02 | 10 | \$17 | 30% | 2.16 |
| PPL | Synchronous Belts | Other Non-Mfg | Pumps | New | end use | 11,312 | 1.2% | 0.02 | 10 | \$17 | 30% | 2.16 |
| PPL | Synchronous Belts | Other Non-Mfg | Pumps | ROB | end use | 11,312 | 1.2% | 0.02 | 10 | \$17 | 30% | 2.16 |

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|--|--|--|
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| Measure Lifetimes | Calculations/Deemed Savings | Incremental Costs |
|-------------------|--|---|
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